ESPON

EUROPEAN UNION

Co-financed by the European Regional Development Fund

Inspire Policy Making with Territorial Evidence

FINAL REPORT //

DIGISER

Digital Innovation in Governance and Public Service Provision

Annex 1.3 DIGISURVEY Questions Report (Q_Report) // April 2022

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1 Introduction

This technical note provides instructions to interpret the Question Reports of the DIGISURVEY, the survey launched within the framework of the DIGISER Applied Research (https://www.espon.eu/DIGISER) to collect primary data from European cities regarding the state of the art of digital transition at local level.

All the information regarding the concept and the structure of the survey, the dissemination strategy used, the participants and the results of data collection are included in the "DIGISER D3 Draft Final Report", and in the Scientific Annex to DIGISER D3 "Methods for data analysis and development of the DPSVI", both published in the official web page of DIGISER.

The questionnaire is published on EUSurvey platform, and a copy is included in the chapter 4.

1.1 Q_Reports

For each question included in the DIGISURVEY has been created a subchapter of the chapter 3 that contains several tables and charts to explore the results by multiple point of views, hereinafter defined as "Q_Report".

1.2 Simple and Matrix Q_Reports

There are two typologies of reports depending on whether if the question is *simple* or a *matrix*.

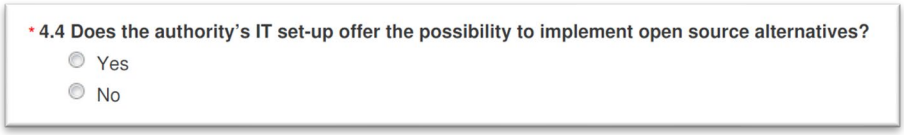


Figure 1 - Question 4.4, example of simple question (single choice – binary).

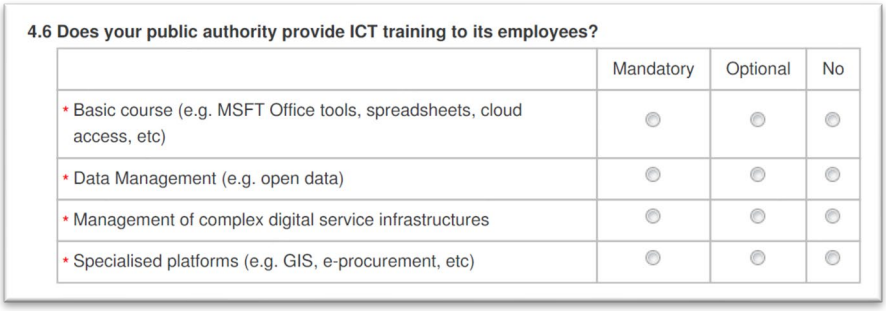


Figure 2 - Question 4.6, example of matrix question (single choice).

In Q_Reports, each matrix question is considered as a group of questions organized in a table, where the rows represent features of the matrix question, while the columns are a set of answers applicable to each row. Matrix question's results could be explored as a whole, with the matrix report, or line by line as a simple question report.

2 Structure of the Q_Reports

2.1 Key info for each chart

The charts used in the Q_Reports are relatively simple, being limited to bars and columns, represented in simple, stacked and 100% stacked formats.

All charts included in the Q_Reports include a summary table reporting the following key information:

- The typology of question visualized
- The sample of respondents used to compute answers
- The eventual cluster used to group data
- The units in which the data are represented

Question type	Data Sample	Cluster	Value
Indicate the question typology and whether it is a matrix • Single choice • Single choice - Binary • Single choice - Likert • Multiple choice • Matrix - Single choice • Matrix - Likert • Matrix - Multiple choice	*Indicate the sample that the data refers to* • All respondents • Reference sample	*Indicate the series showed in the charts and listed in the legend* • Capital cities • Reference sample • Population • GDPPC • Country	*Indicate the units in which the data are represented* • Count • Percentage

Table 1 – Chart summary table

2.1.1 Question typology

Within the two macro-categories of simple and matrix questions it is possible to further distinguish between the following kind of questions, each one collecting data in a different manner:

Simple questions typologies:

- *Single choice – Binary*: One single choice between “Yes” or “No”
- *Single choice – Likert*: One choice among items in a Likert scale
- *Single choice*: One choice among all the possible answers
- *Multiple choice*: Possibility to select multiple answers

Matrix question typologies:

- *Matrix - Single choice*: Possibility to select just one answer (column) per row
- *Matrix – Likert*: Possibility to select just one answer per row. The columns are organized as a Likert scale
- *Matrix - Multiple choice*: Possibility to select multiple answers per row.

2.1.2 Complete and reference sample

Simple and matrix Q_Reports have different contents, but both reports are divided into two sections that return the results of the complete sample and of the reference sample.

- The **complete sample** is composed by all the respondents with the exclusion of duplicate questionnaire coming from the same authority (same city at the same administrative level).
- The **reference sample** is composed by a selection of respondents (they are a portion of the 170 cities selected to provide a statistical sample at the European level). The reference sample is intended to be the best approximation attainable that could be considered as representative of the variety of European cities.

Shall be also considered that DIGISURVEY is composed by four levels of questions.

The questions have been hierarchically ordered and nested, the first level questions are usually mandatory while the other levels are nested and would appear only under the selection of specific answers. This means that not all the respondents answered to all the questions. Just the first level questions received the 100% of answers, while for other levels the percentage could be lower.

Each Q_Report provides detailed information regarding the respondent to the question represented.

2.1.3 Cluster

Data can be grouped in clusters showed as series in the charts and listed in the legend.

The cluster explored by the report are the followings:

- *None*: no cluster, the data refers to the entire sample
- *Capital cities*: comparing the results of capital cities with all the other respondents.
- *Reference sample*: compared results of reference sample and all other respondents.
- *Population*: compared results among cities by population size
- *GDPPC*: compared results among cities by GDP per capita size
- *Country*: compared results among countries

In few cases cluster and possible answers can be switched, in this case the chart visualizes cluster class on the y-axis and the possible answers as chart series.

2.1.4 Value

The value indicates the units in which the data are represented along the x-axis.

The data could be represented as:

- *Count*: absolute number that select a particular answer
- *Percentage*: relative number of respondents that select that answer.

In the case of clustered bar charts, the percentage is based on the number of respondents to that specific question. In the case of 100% stacked bar, the percentage is based on the total number of selections received by that answer (row ‘s percentage). The percentage could also be based on the total number of selections received by the question.

All those relative results are different, and their usefulness depends on the question typology and content. The criteria to define the percentage are specified in each Q_Report.

2.2 Simple Q_Report structure

Every Q_Report contains a series of information organized in tables and charts to analyse the results in different ways.
The first page of each section shows some context information about the question, such as the number of analysed questionnaires and the number of respondents to that specific question.

The following table reports the detailed structure of the simple Q_Report, also specifying the chart type and the item visualized as classes and series of the charts.

Page	Sample	Chart type	Class	Series	Value
1	All respondents	Summary table	answers	na	all
2	All respondents	Bars	answers	na	count
3	All respondents	Bars	answers	na	percentage
4	All respondents	Bars	answers	sample/others	percentage
5	All respondents	Bars	answers	capital cities	percentage
6	All respondents	Bars	population	answers	count
7	All respondents	Bars	population	answers	percentage

Page	Sample	Chart type	Class	Series	Value
8	All respondents	Stacked Bars	population	answers	count
9	All respondents	Stacked Bars	population	answers	percentage
10	All respondents	Bars	answers	population	count
11	All respondents	100% Stacked Bars	answers	population	percentage
12	All respondents	Bars	GDPPC	answers	count
13	All respondents	Bars	GDPPC	answers	percentage
14	All respondents	Stacked Bars	GDPPC	answers	count
15	All respondents	Stacked Bars	GDPPC	answers	percentage
16	All respondents	Stacked Columns	Country	answers	count
17	All respondents	100% Stacked Columns	Country	answers	percentage
18	Reference Sample	Summary table	answers	na	all
19	Reference Sample	Bars	answers	na	count
20	Reference Sample	Bars	answers	na	percentage
21	Reference Sample	Bars	answers	sample/all	percentage
22	Reference Sample	Bars	answers	capital cities	percentage
23	Reference Sample	Bars	population	answers	count
24	Reference Sample	Bars	population	answers	percentage
25	Reference Sample	Stacked Bars	population	answers	count
26	Reference Sample	Stacked Bars	population	answers	percentage
27	Reference Sample	Bars	answers	population	count
28	Reference Sample	100% Stacked Bars	answers	population	percentage
29	Reference Sample	Bars	GDPPC	answers	count
30	Reference Sample	Bars	GDPPC	answers	percentage
31	Reference Sample	Stacked Bars	GDPPC	answers	count
32	Reference Sample	Stacked Bars	GDPPC	answers	percentage
33	Reference Sample	Stacked Columns	Country	answers	count
34	Reference Sample	100% Stacked Columns	Country	answers	percentage

Table 2 – Simple Q_Report table of contents

2.3 Matrix Q_Report structure

Matrix Q_Reports - alike Simple Q_Reports - are organized with a charts per page and every chart is accompanied by a table that summarizes the chart's contents. Usually along the vertical axis are listed all the possible answers. The table format follows the schema reported in the single question paragraph.

The first page of each section shows some context information about the question and a histogram with data table that replicate the matrix structure and count the number of selections in each cell.

The charts in the matrix question report performed the cluster analysis using the rows and columns of the matrix, instead of population, GDPC and country. In this way the results are explored as a whole, for the entire matrix. Every single row of the matrix can be treated as a single question and visualized with the single question report. By now this elaboration has been performed just for complex matrices (see question 8.4 and relative reports).

The following table reports the detailed structure of the simple Q_Report, also specifying the chart type and the item visualized as classes and series of the charts

P	Sample	Chart type	Class	Series	Value
1	All respondents	Columns and data table	answers	na	all
2	All respondents	Summary table	matrix columns	na	all

P	Sample	Chart type	Class	Series	Value
3	All respondents	Bars	matrix columns	na	count
4	All respondents	Bars	matrix columns	na	percentage
5	All respondents	Bars	matrix columns	sample vs others	percentage
6	All respondents	Bars	matrix columns	capital cities	percentage
7	All respondents	Bars	matrix rows	matrix columns	count
8	All respondents	100% Stacked Bars	matrix rows	matrix columns	percentage
9	All respondents	Bars	matrix columns	matrix rows	count
10	Reference Sample	Columns and data table	answers	na	all
11	Reference Sample	Summary table	matrix columns	na	all
12	Reference Sample	Bars	matrix columns	na	count
13	Reference Sample	Bars	matrix columns	na	percentage
14	Reference Sample	Bars	matrix columns	sample vs others	percentage
15	Reference Sample	Bars	matrix columns	capital cities	percentage
16	Reference Sample	Bars	matrix rows	matrix columns	count
17	Reference Sample	100% Stacked Bars	matrix rows	matrix columns	percentage
18	Reference Sample	Bars	matrix columns	matrix rows	count

Table 3 – Matrix Q_Report table of contents

3 Q_Reports

3.1 Q_1.8 Which of the following service areas is your public authority involved in or responsible for?

1.8 Which of the following service areas is your public authority involved in or responsible for?

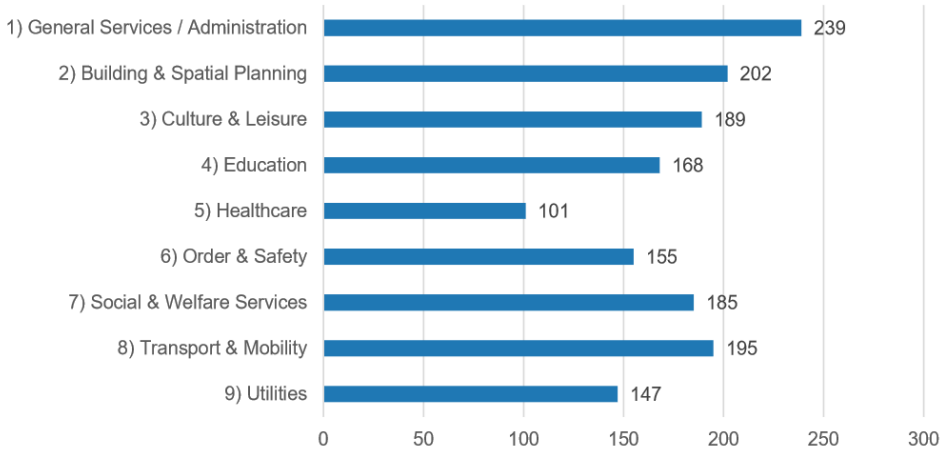
ALL RESPONDENTS

Question type:	***Multiple choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) General Services / Administration	239	97%
2) Building & Spatial Planning	202	82%
3) Culture & Leisure	189	77%
4) Education	168	68%
5) Healthcare	101	41%
6) Order & Safety	155	63%
7) Social & Welfare Services	185	75%
8) Transport & Mobility	195	79%
9) Utilities	147	60%

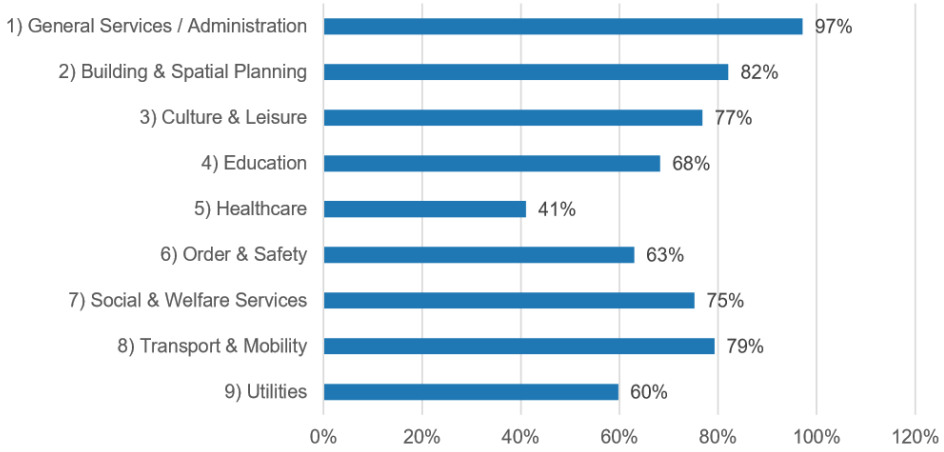
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

1.8 Which of the following service areas is your public authority involved in or responsible for?



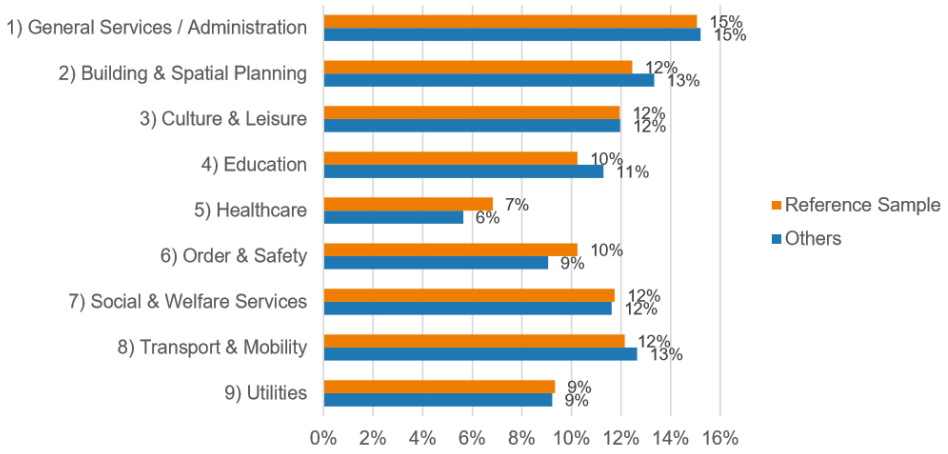
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

1.8 Which of the following service areas is your public authority involved in or responsible for?



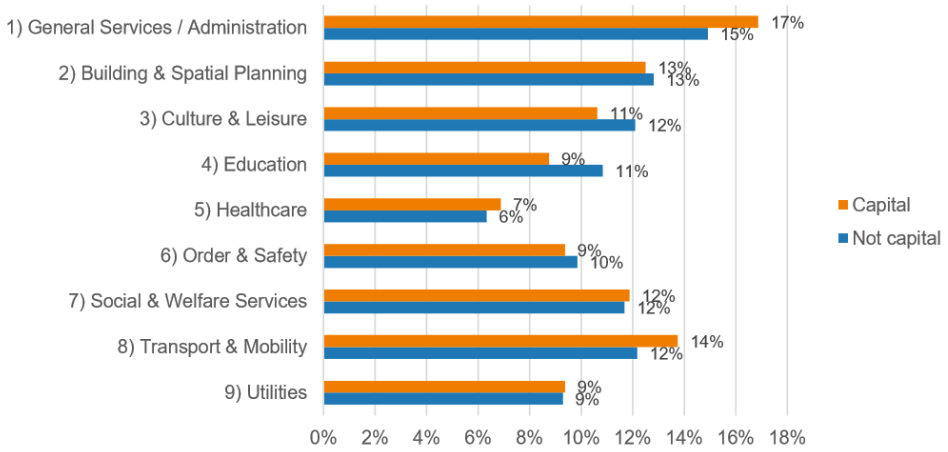
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

1.8 Which of the following service areas is your public authority involved in or responsible for?



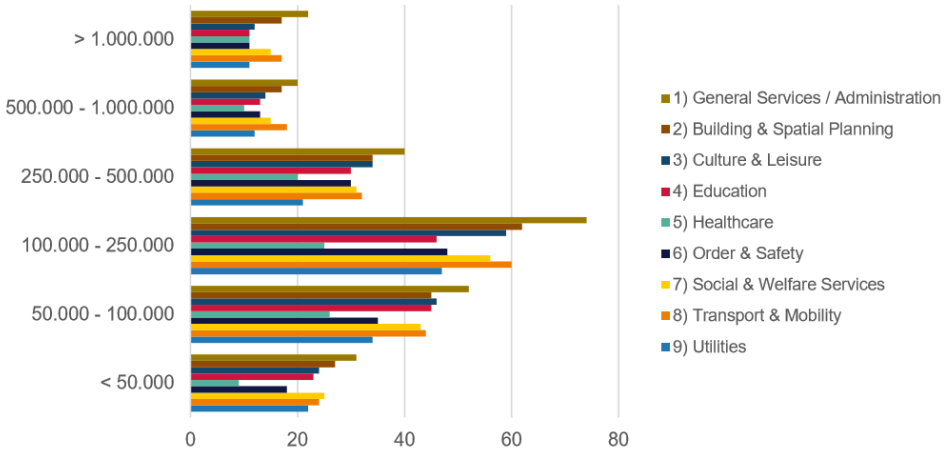
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

1.8 Which of the following service areas is your public authority involved in or responsible for?



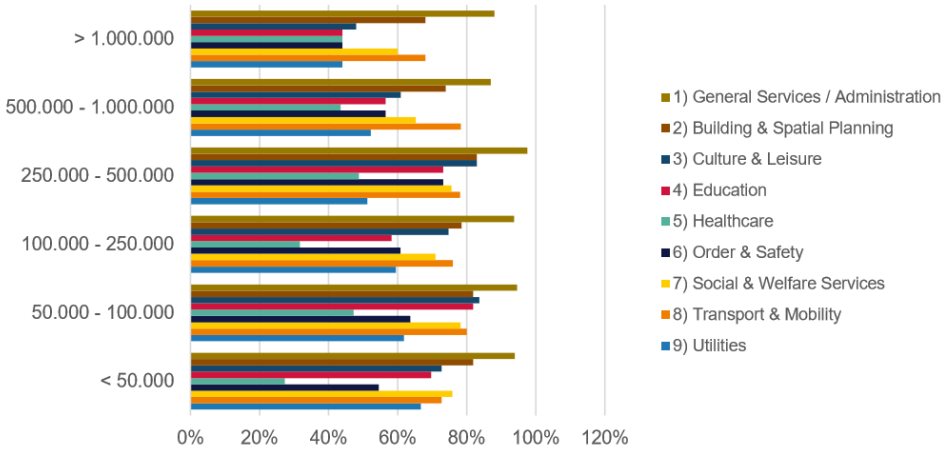
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

1.8 Which of the following service areas is your public authority involved in or responsible for?



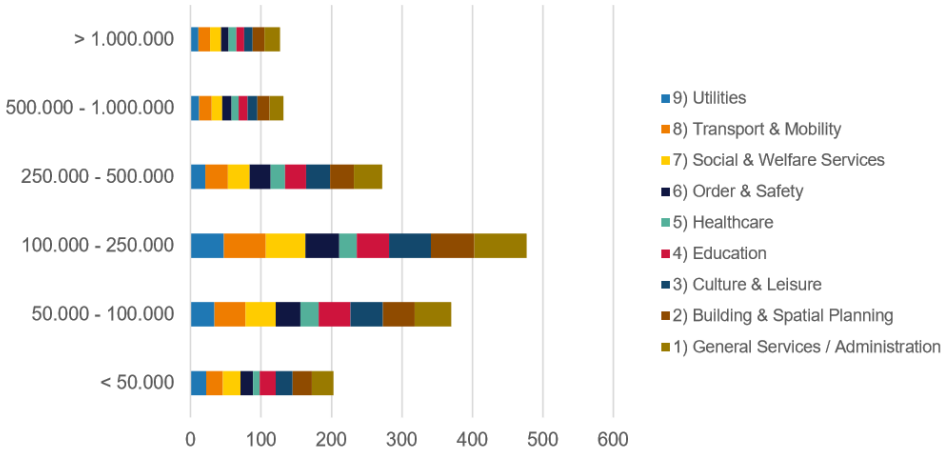
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

1.8 Which of the following service areas is your public authority involved in or responsible for?



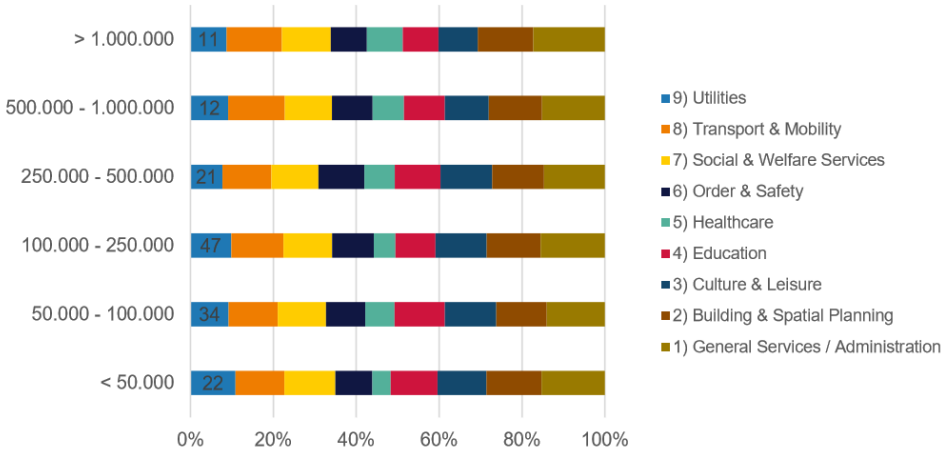
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

1.8 Which of the following service areas is your public authority involved in or responsible for?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

1.8 Which of the following service areas is your public authority involved in or responsible for?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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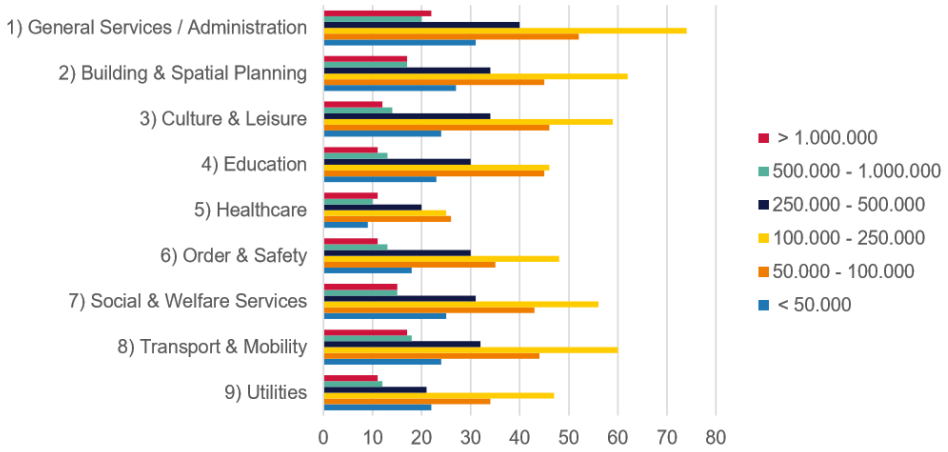

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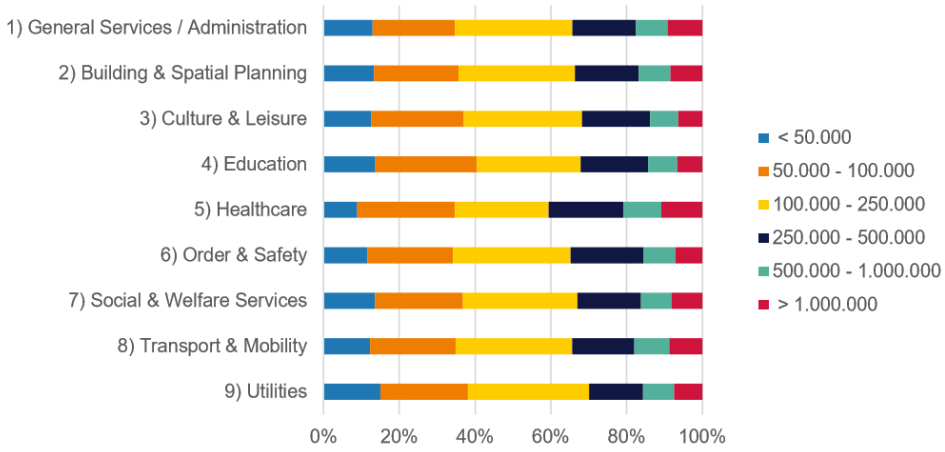

Question type	Data sample	Cluster	Value
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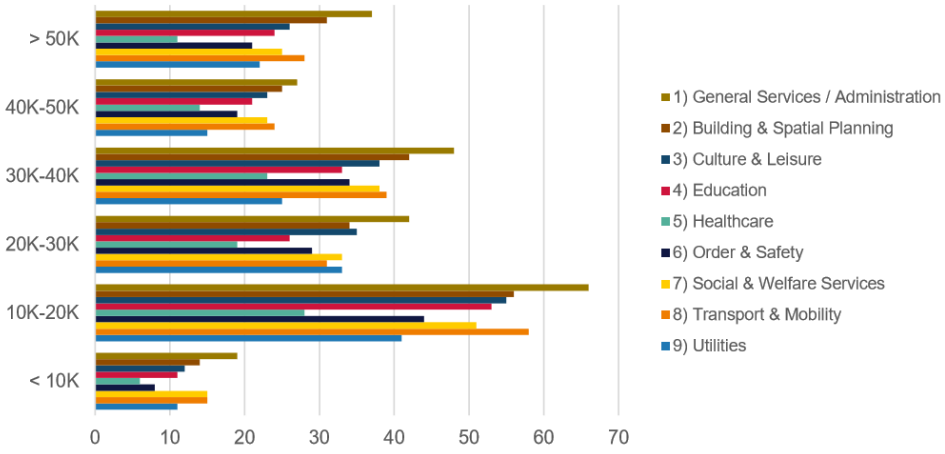

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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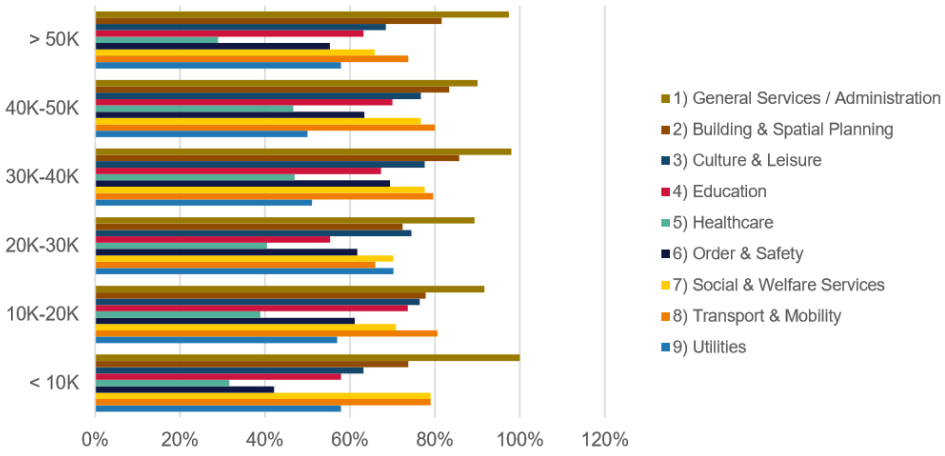

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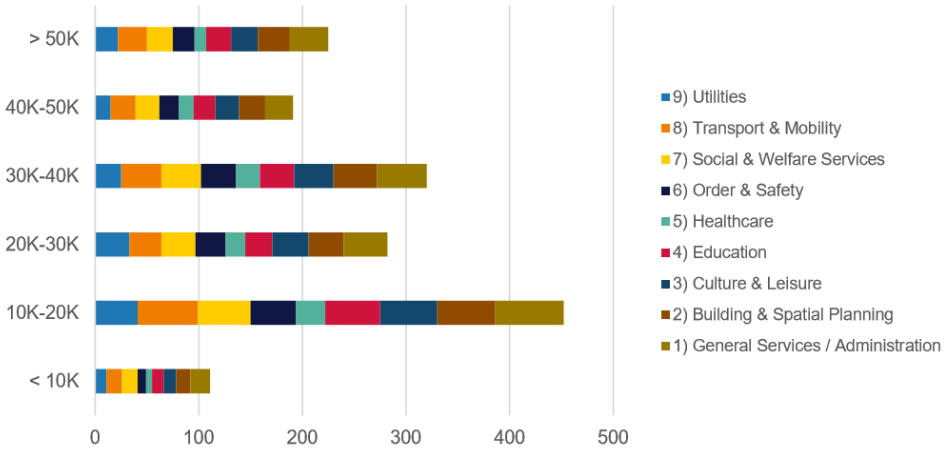

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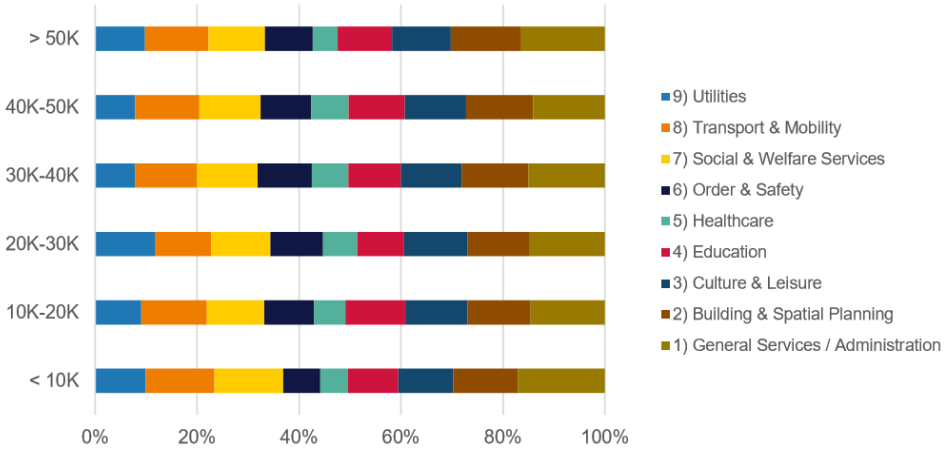

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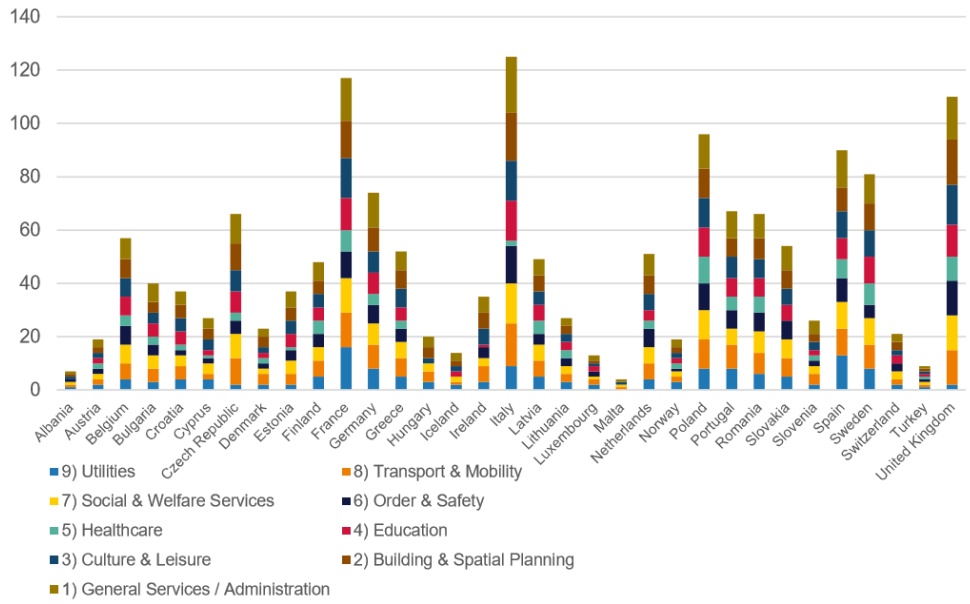

Question type	Data sample	Cluster	Value
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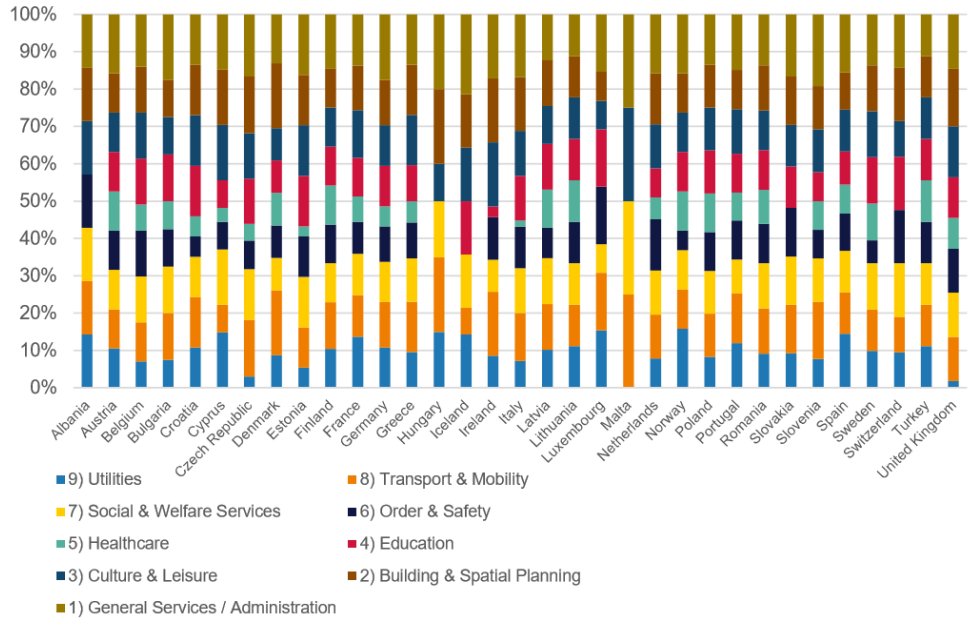


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

1.8 Which of the following service areas is your public authority involved in or responsible for?

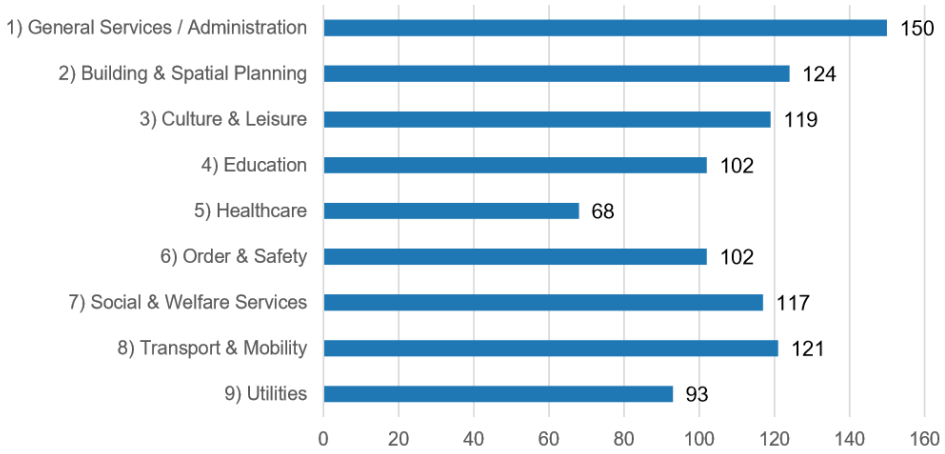
REFERENCE SAMPLE

Question type:	***Multiple choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) General Services / Administration	150	97%
2) Building & Spatial Planning	124	80%
3) Culture & Leisure	119	77%
4) Education	102	66%
5) Healthcare	68	44%
6) Order & Safety	102	66%
7) Social & Welfare Services	117	75%
8) Transport & Mobility	121	78%
9) Utilities	93	60%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

1.8 Which of the following service areas is your public authority involved in or responsible for?



Question type	Data sample	Cluster	Value
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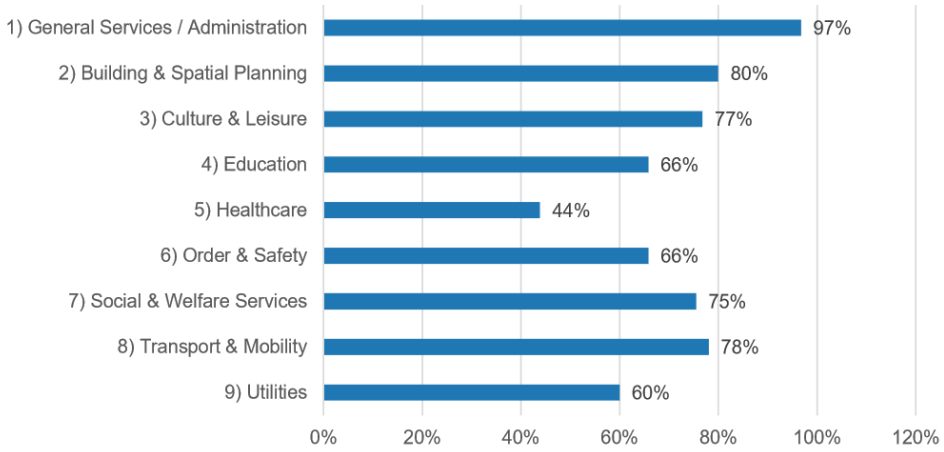

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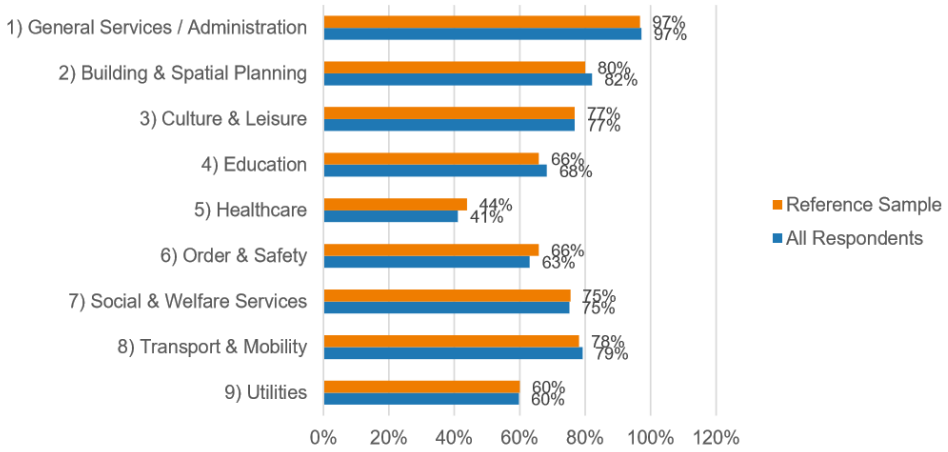

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

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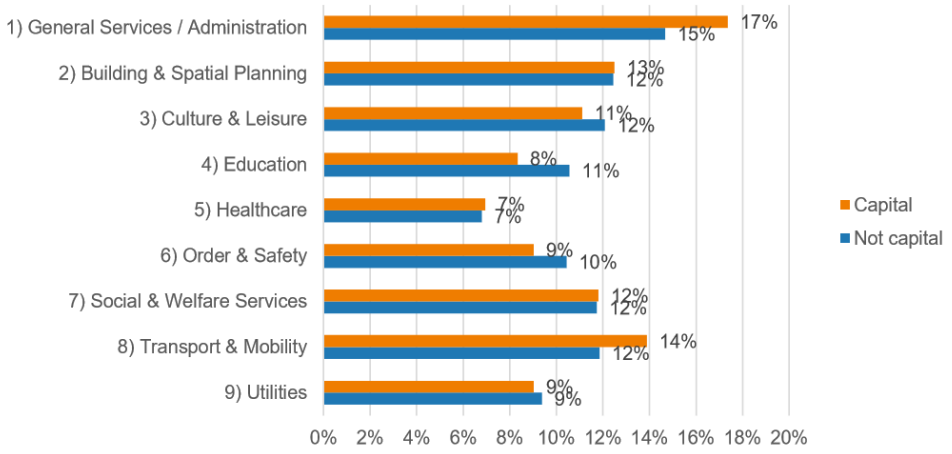
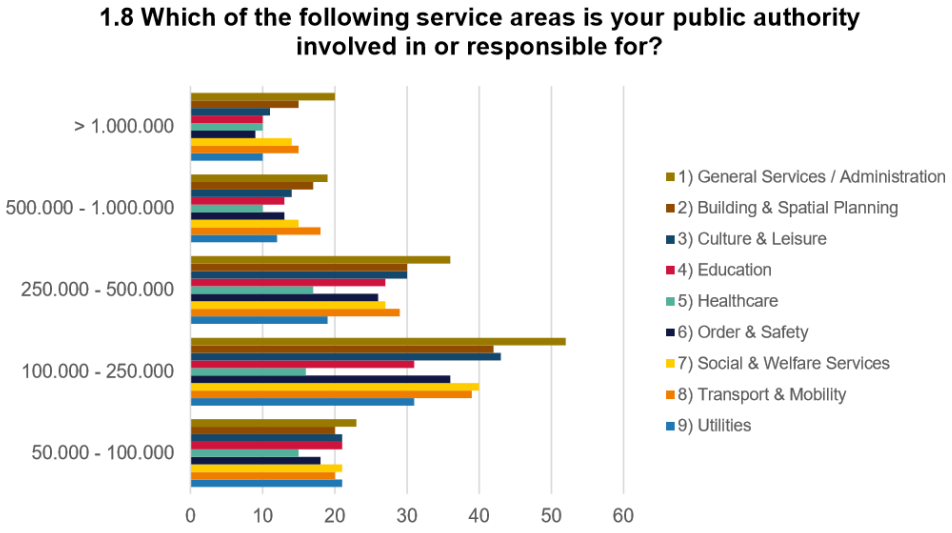


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage



Question type	Data sample	Cluster	Value
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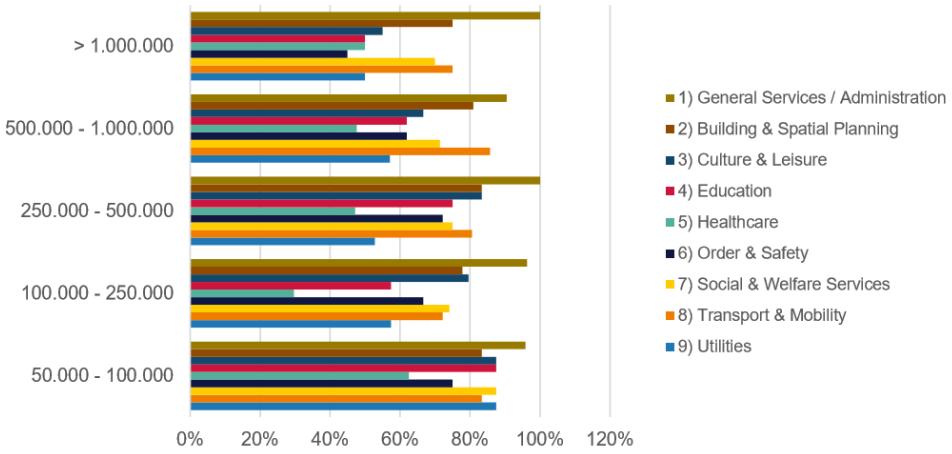
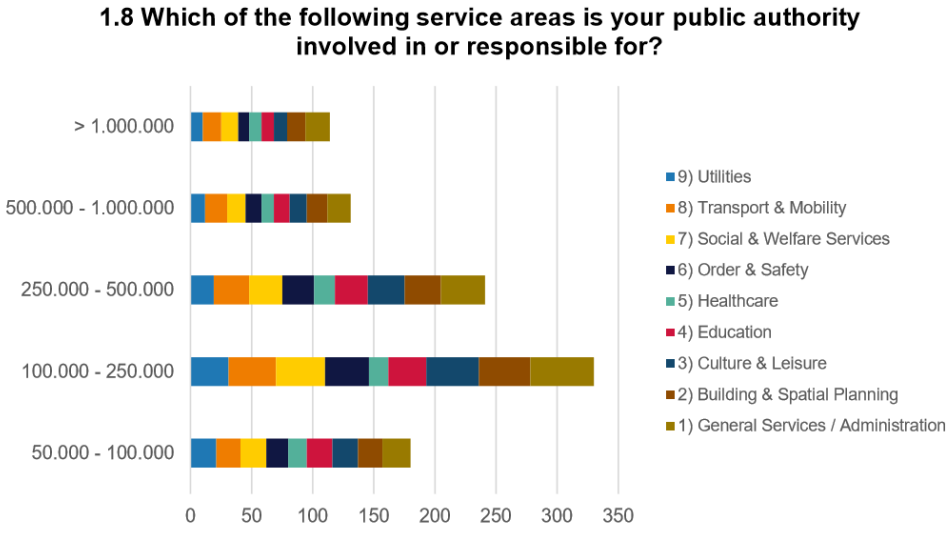


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage



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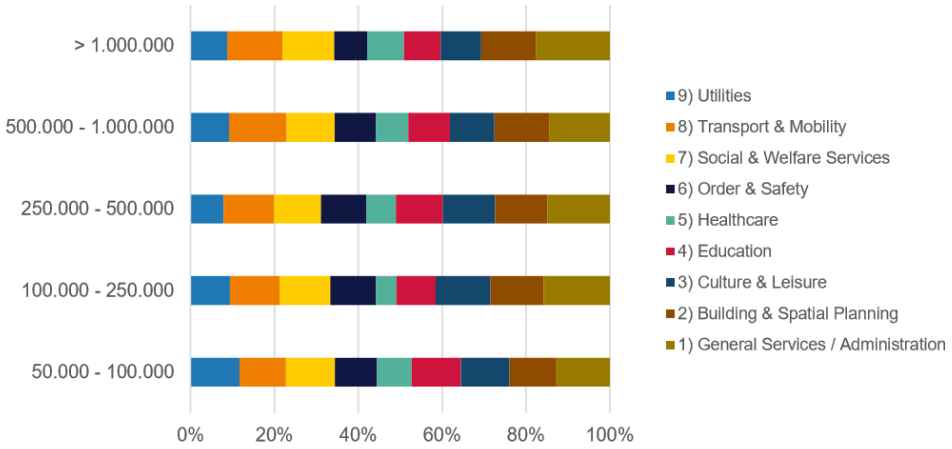

Question type	Data sample	Cluster	Value
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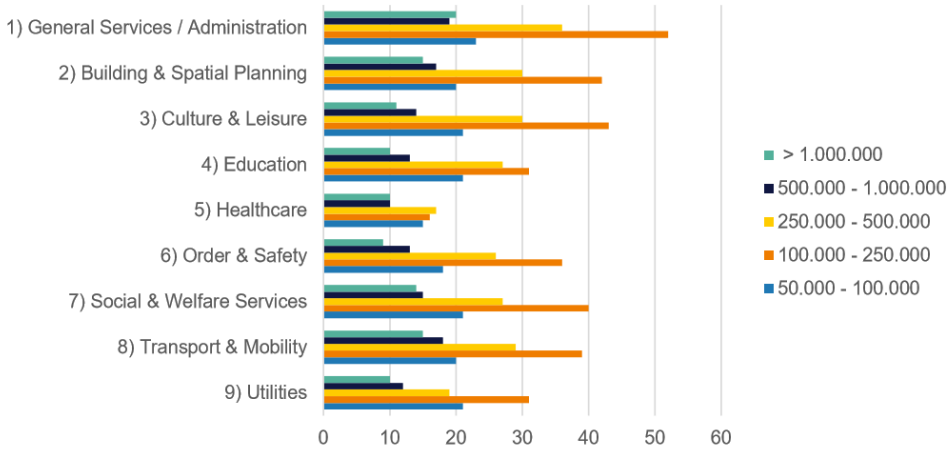

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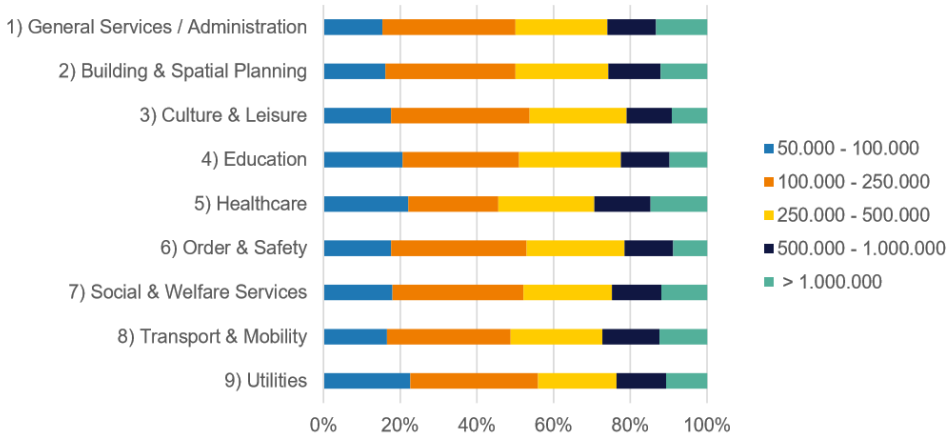
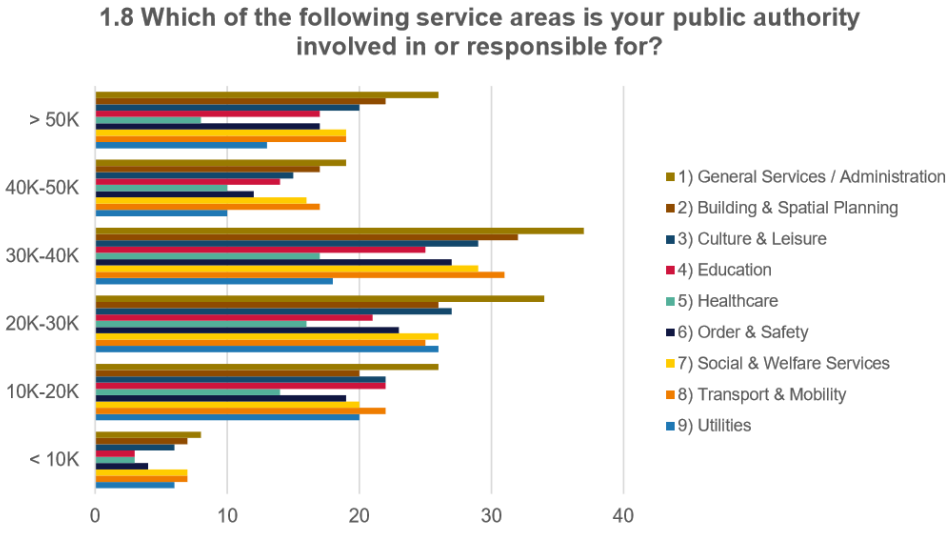


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

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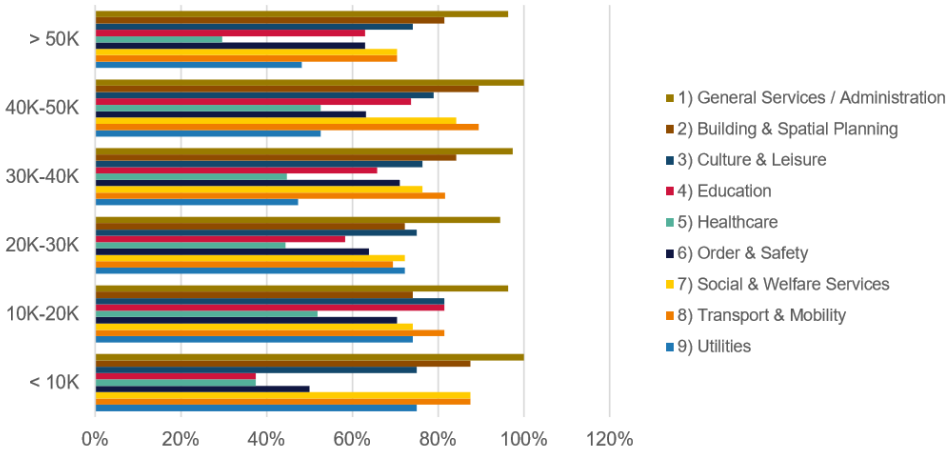
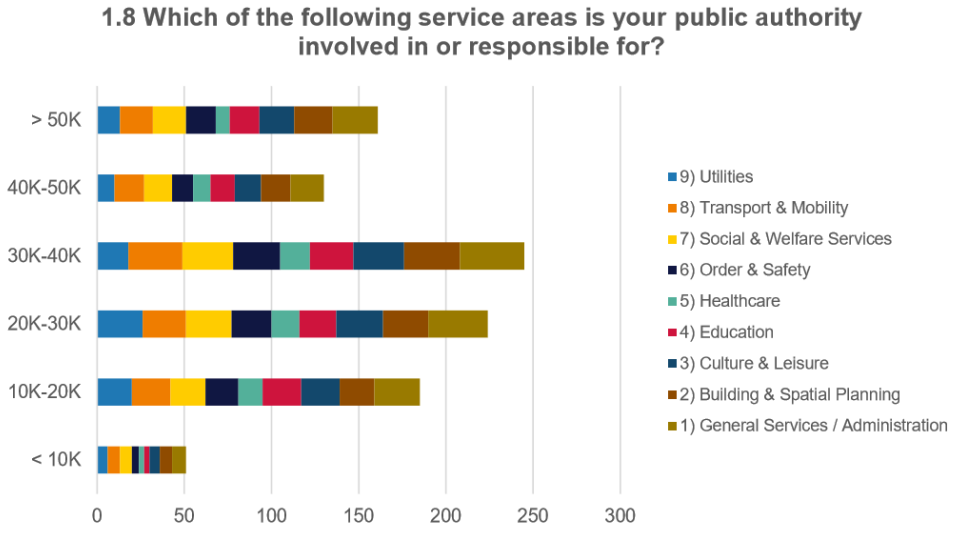
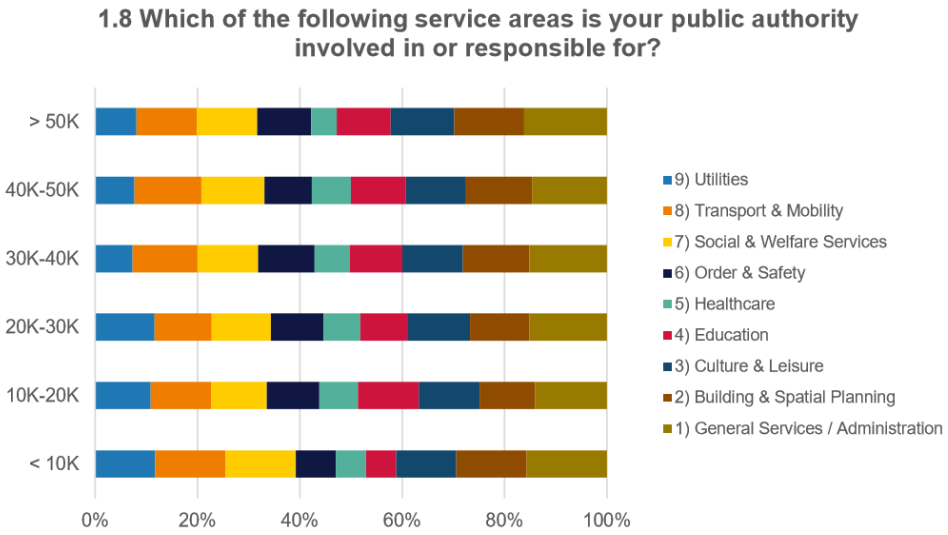


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

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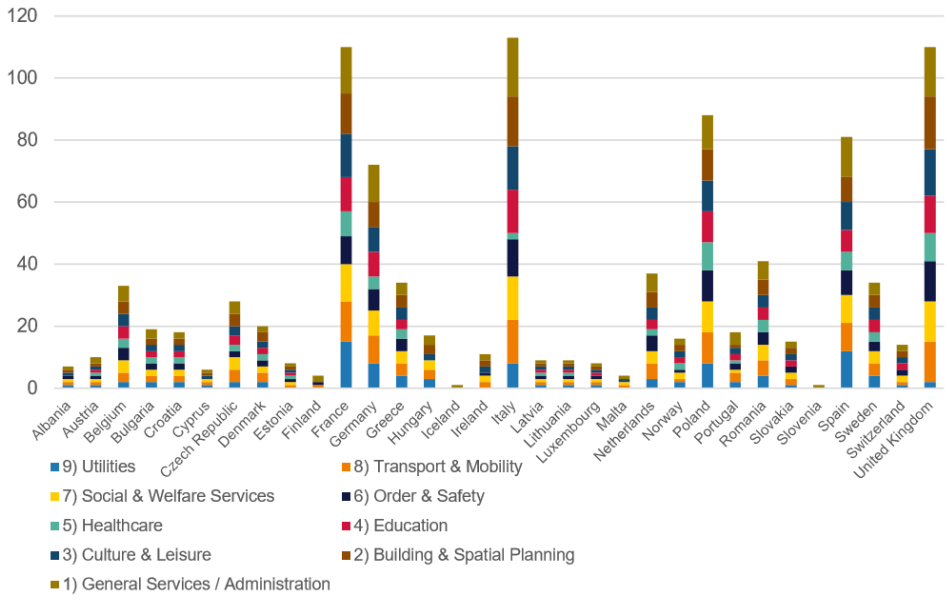

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

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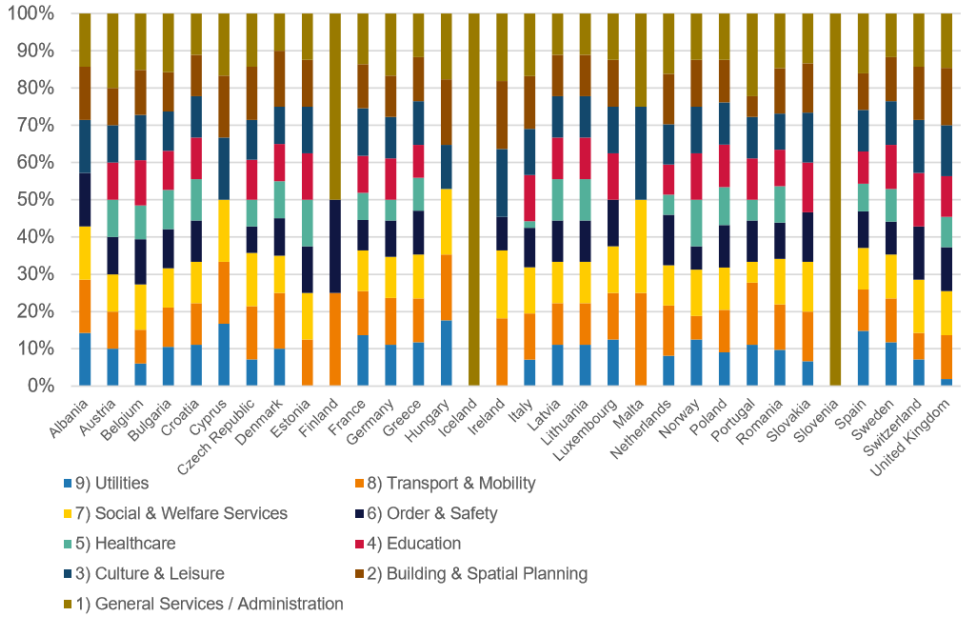


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.2 Q_2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?

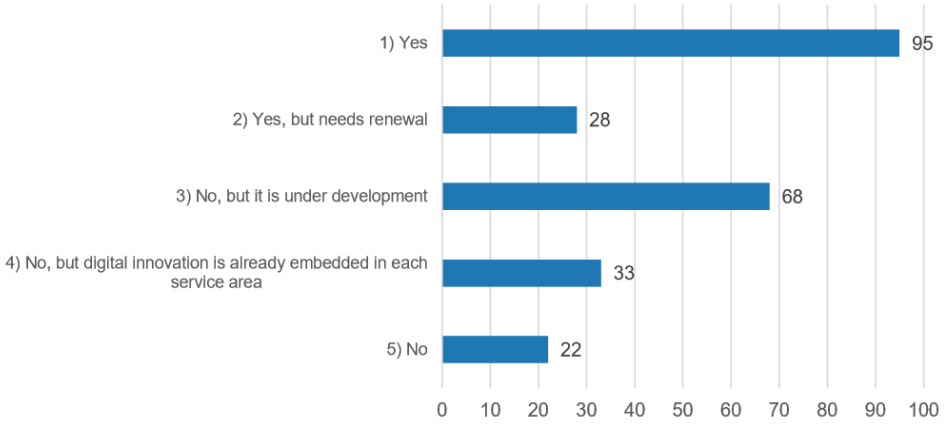
ALL RESPONDENTS

Question type: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	95	39%
2) Yes, but needs renewal	28	11%
3) No, but it is under development	68	28%
4) No, but digital innovation is already embedded in each service area	33	13%
5) No	22	9%

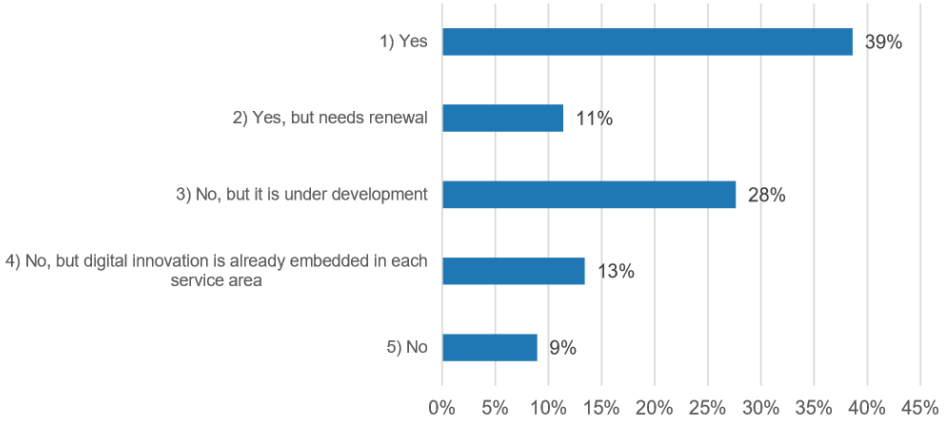
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

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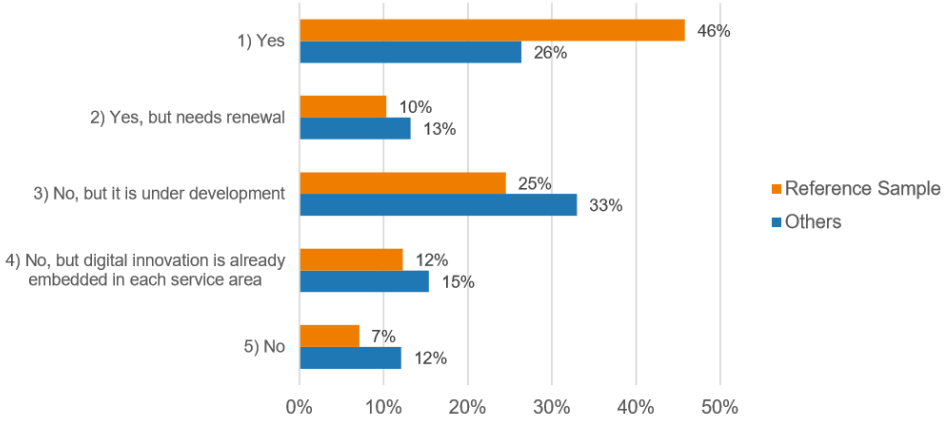

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

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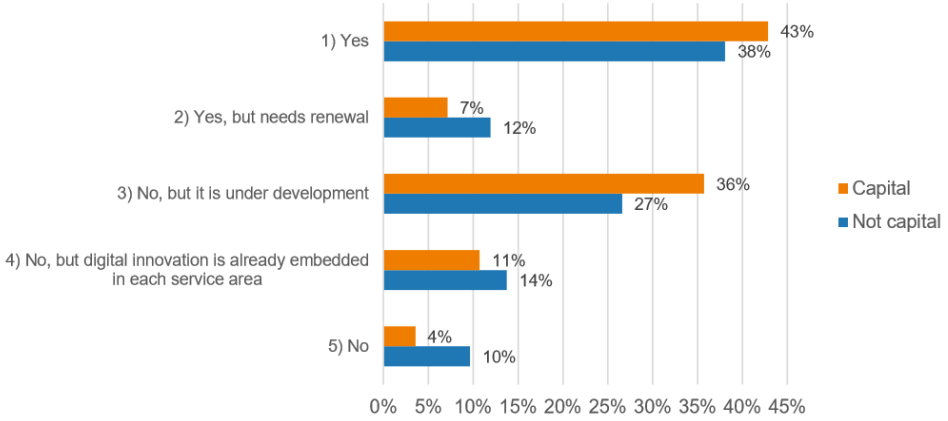
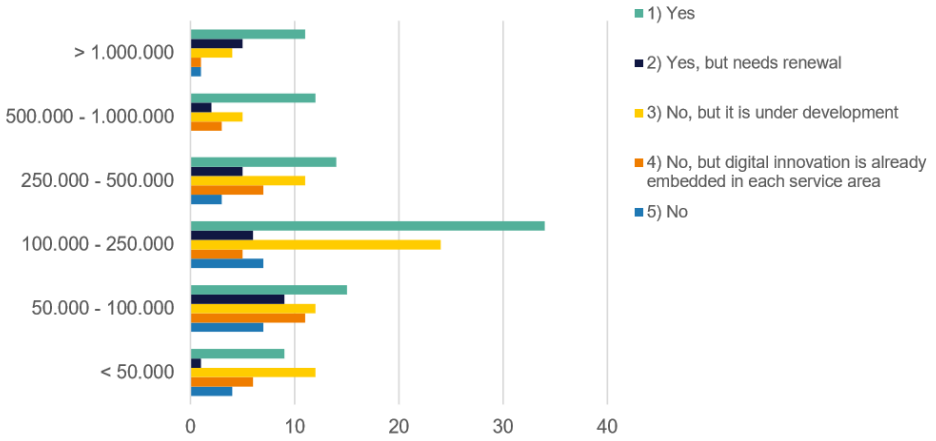


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



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Single choice	All Respondents	Population	Count

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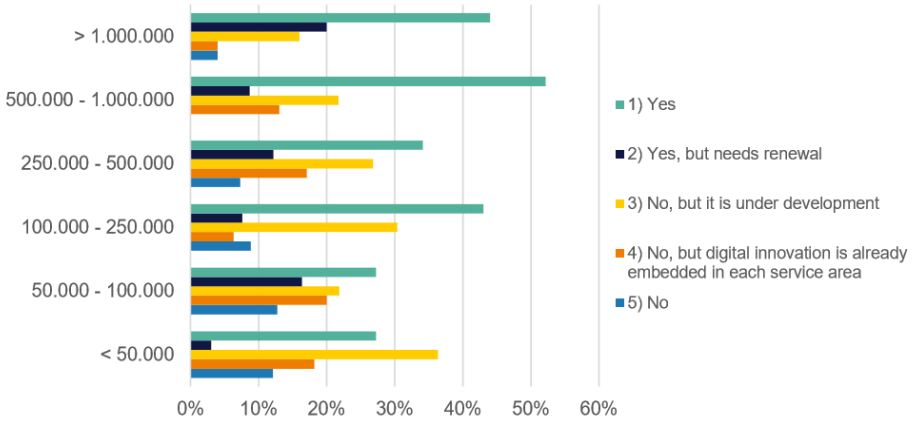

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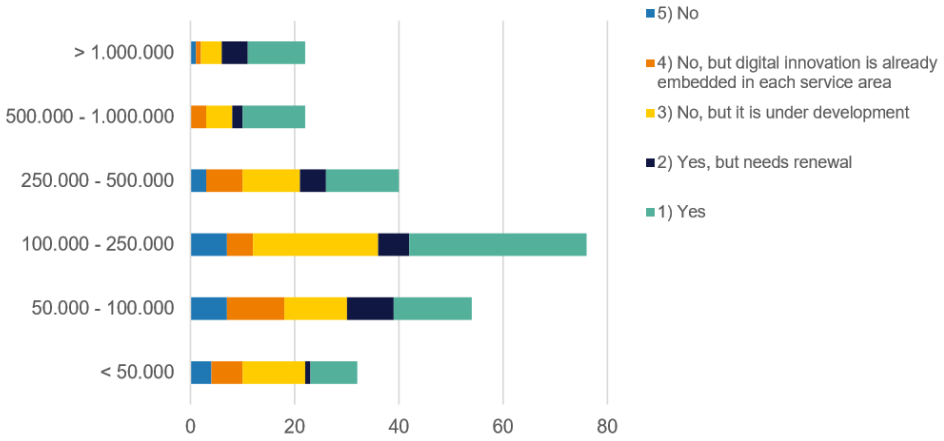

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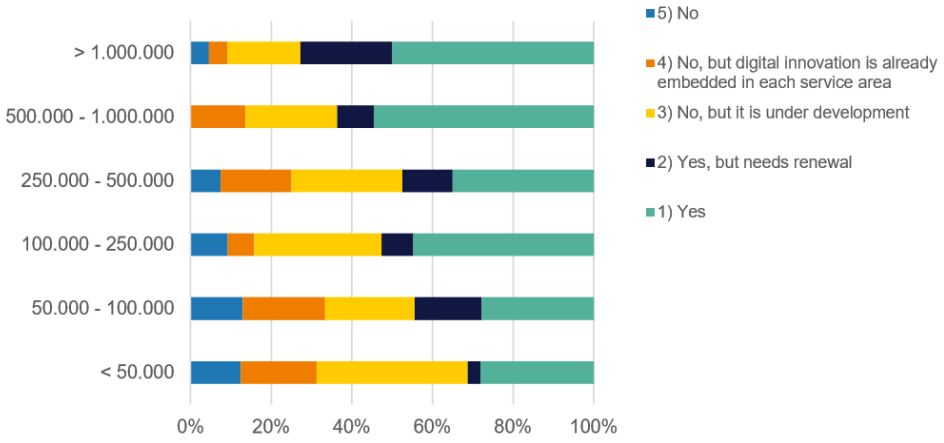

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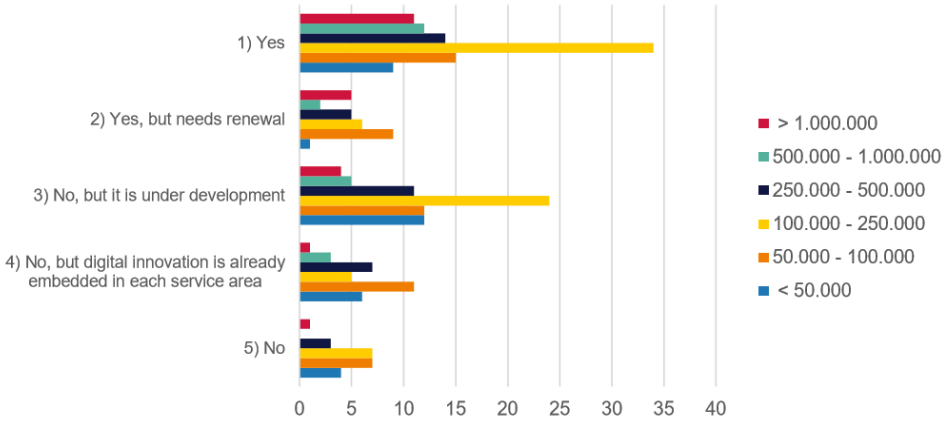

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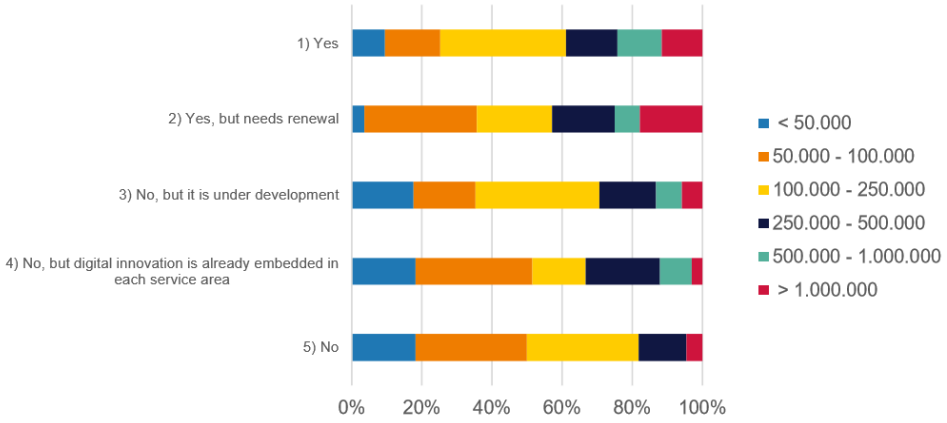

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Single choice	All Respondents	Population	Percentage

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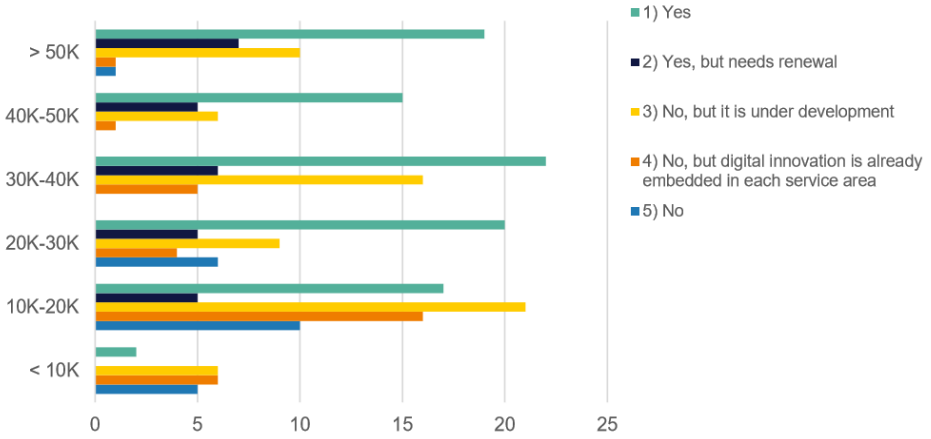

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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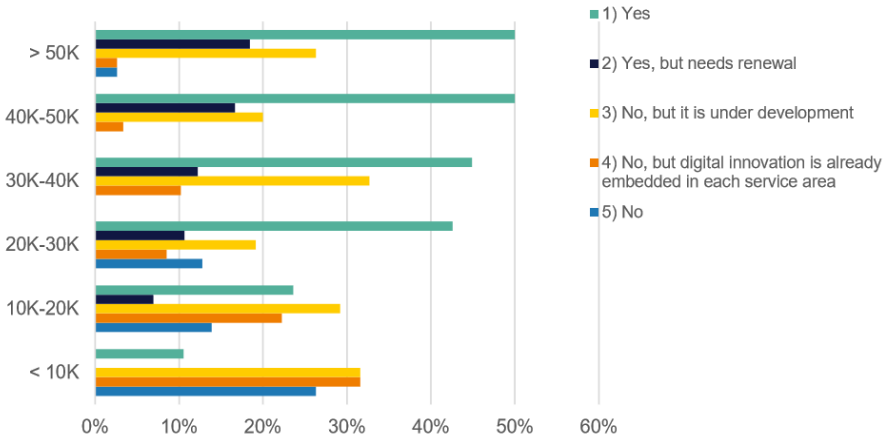

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Single choice	All Respondents	GDPPC	Percentage

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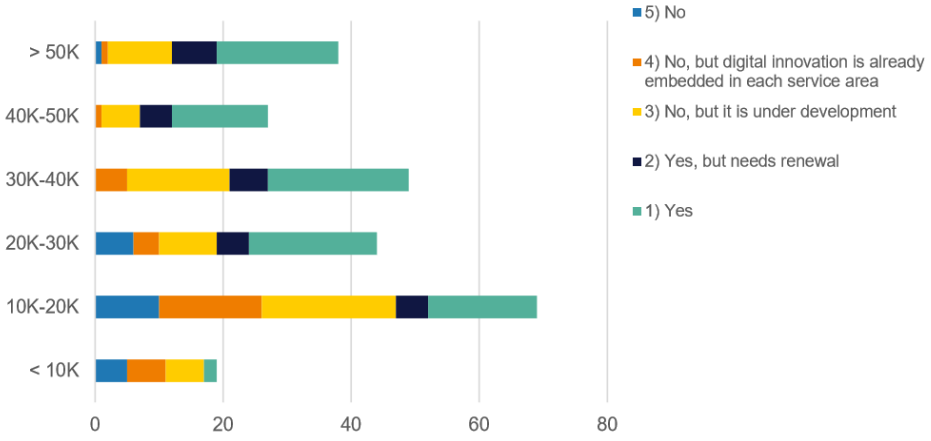

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Single choice	All Respondents	GDPPC	Count

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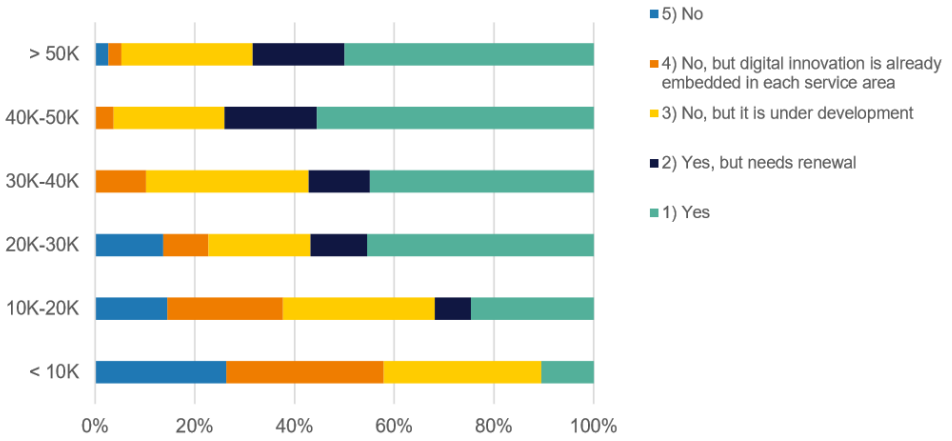

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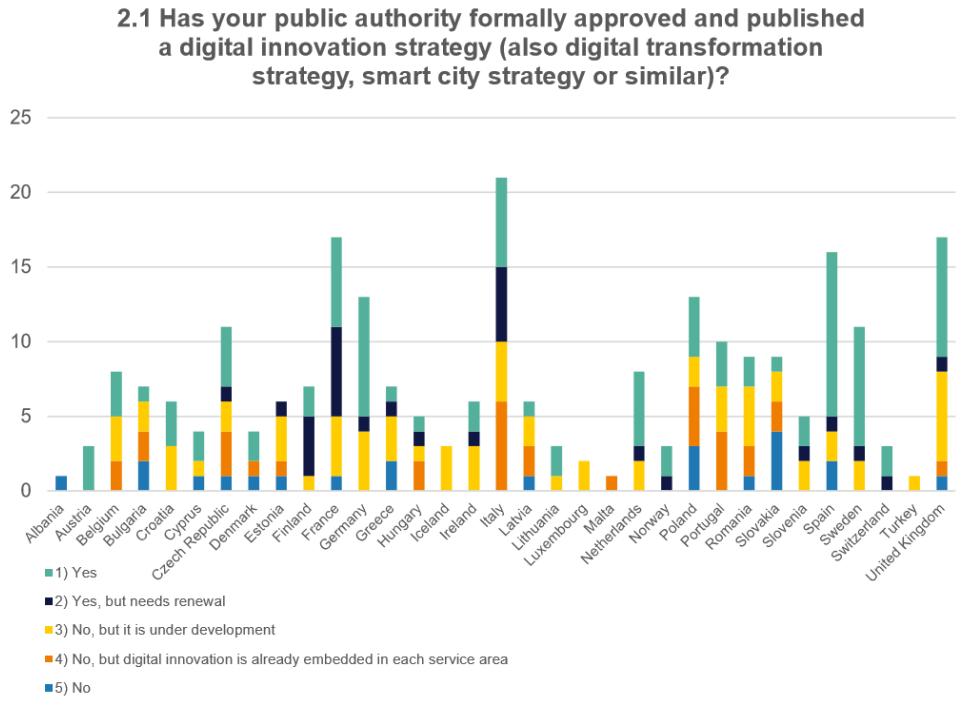

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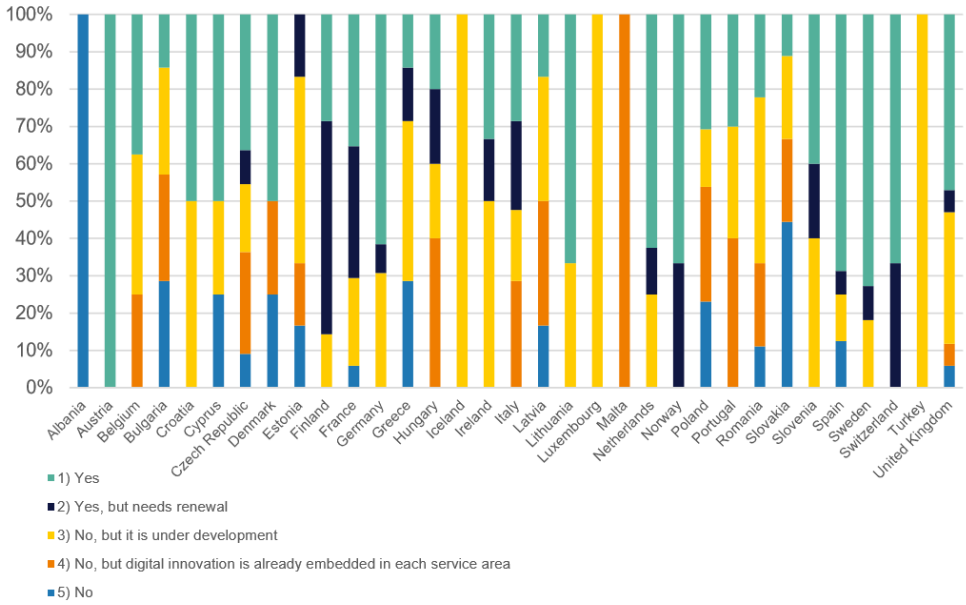


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?

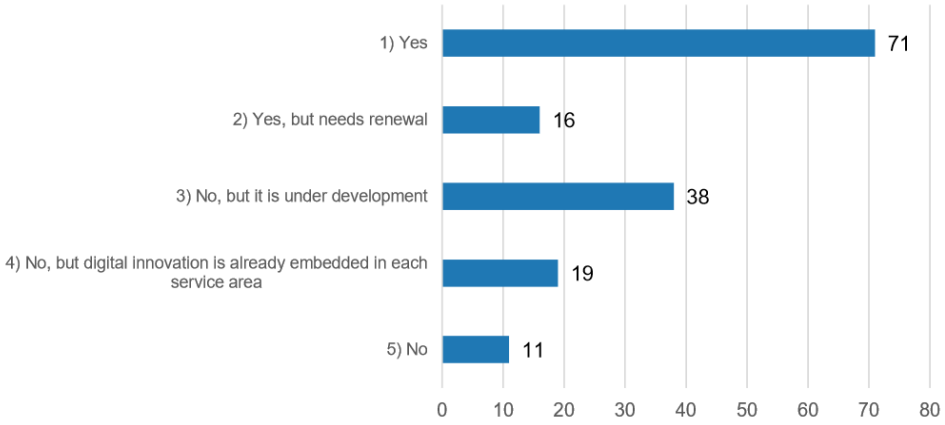
REFERENCE SAMPLE

Question type: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	71	46%
2) Yes, but needs renewal	16	10%
3) No, but it is under development	38	25%
4) No, but digital innovation is already embedded in each service area	19	12%
5) No	11	7%

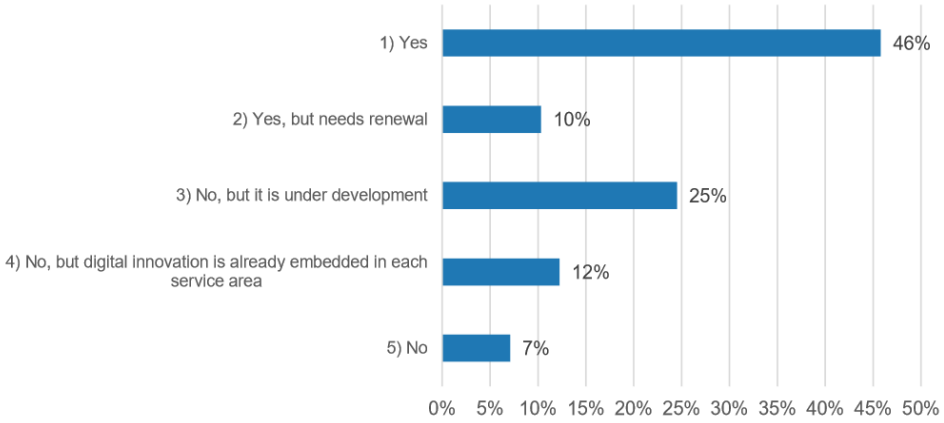
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



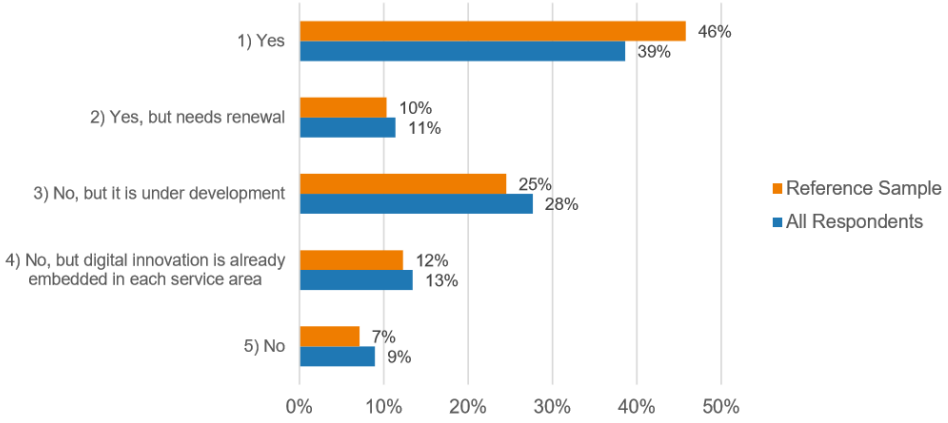
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



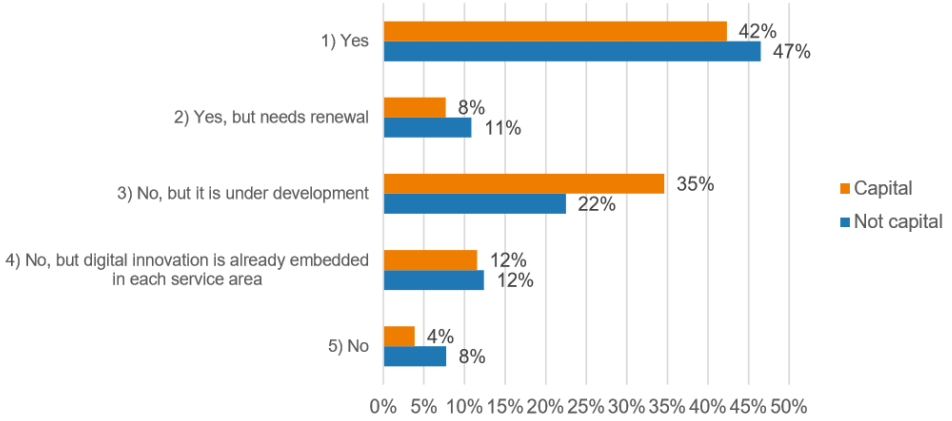
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



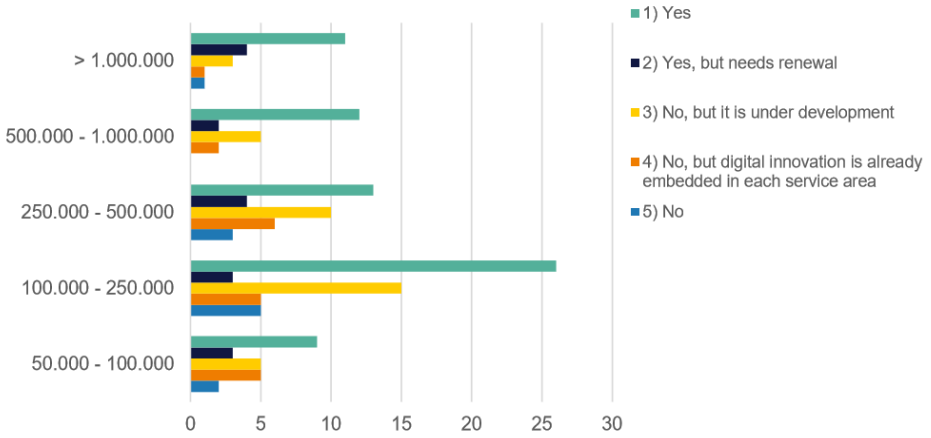
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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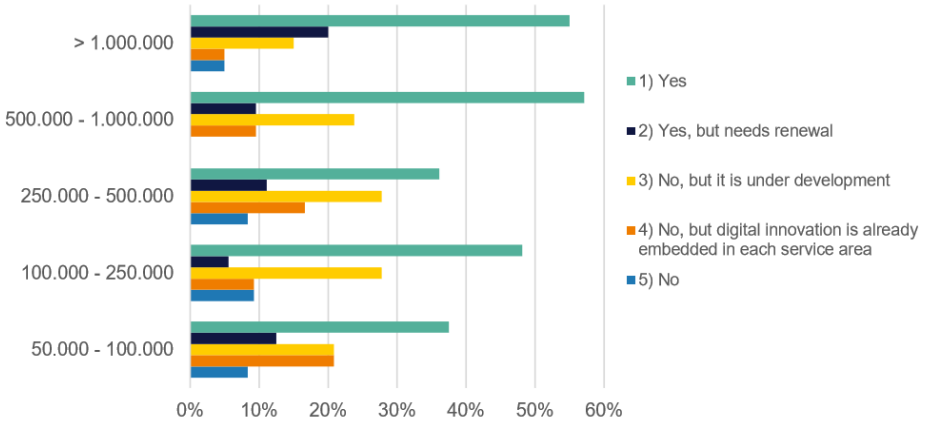

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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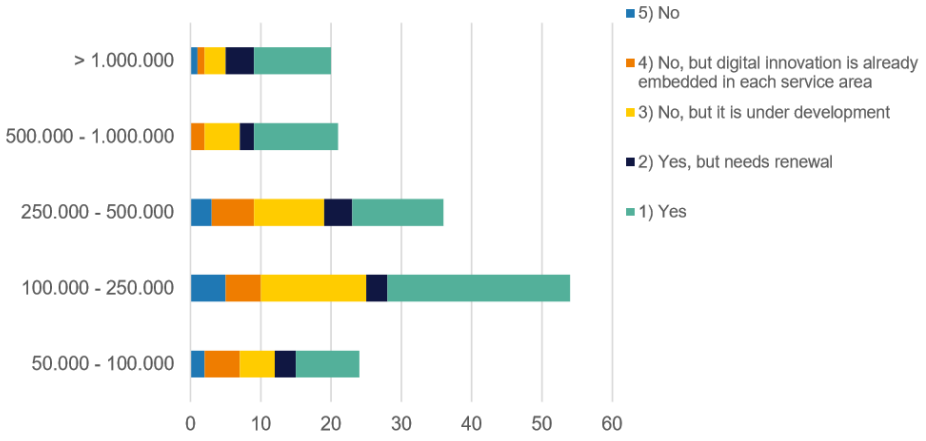

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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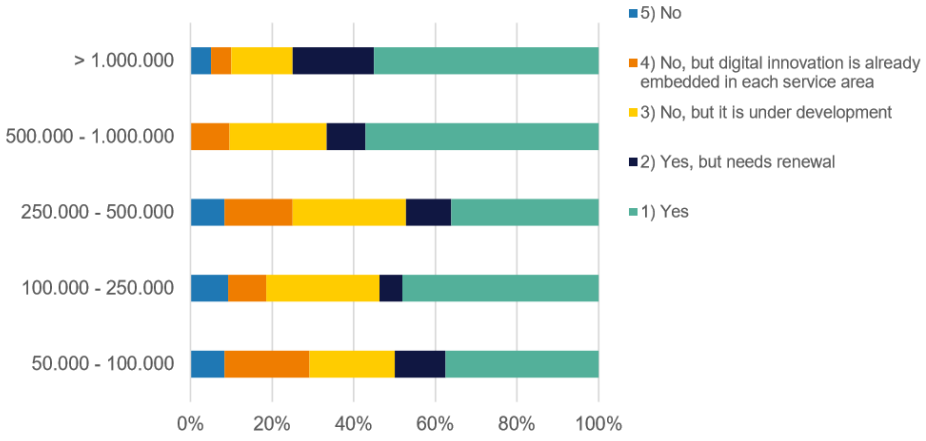

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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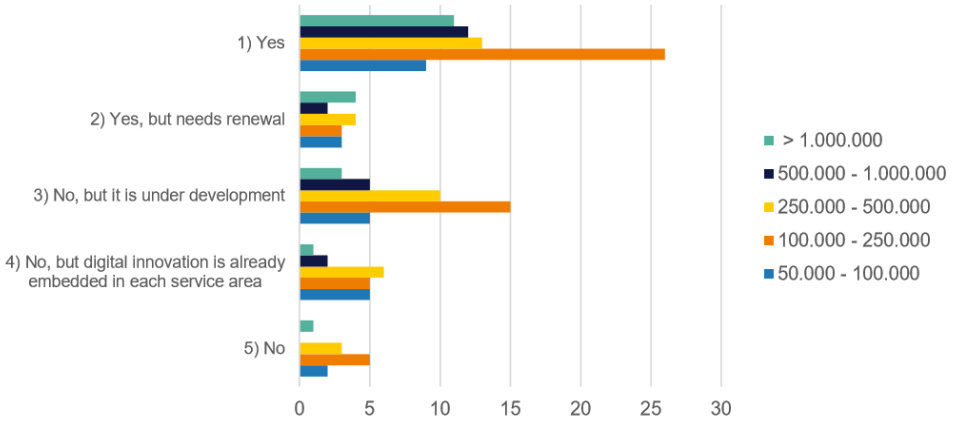

Question type	Data sample	Cluster	Value
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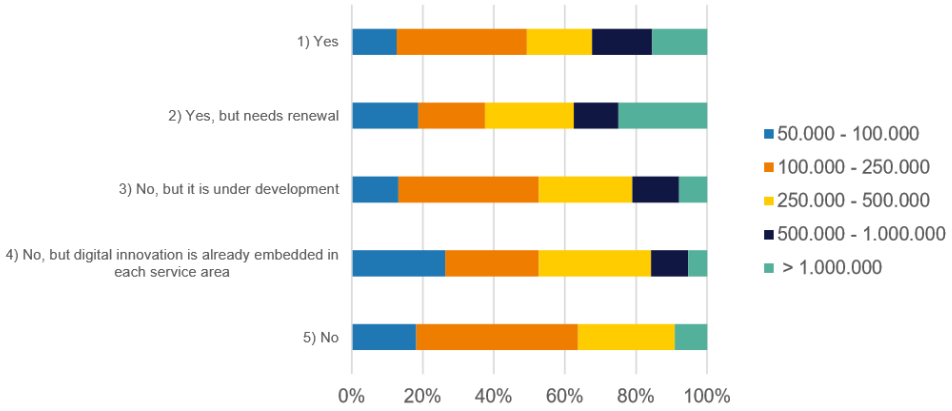
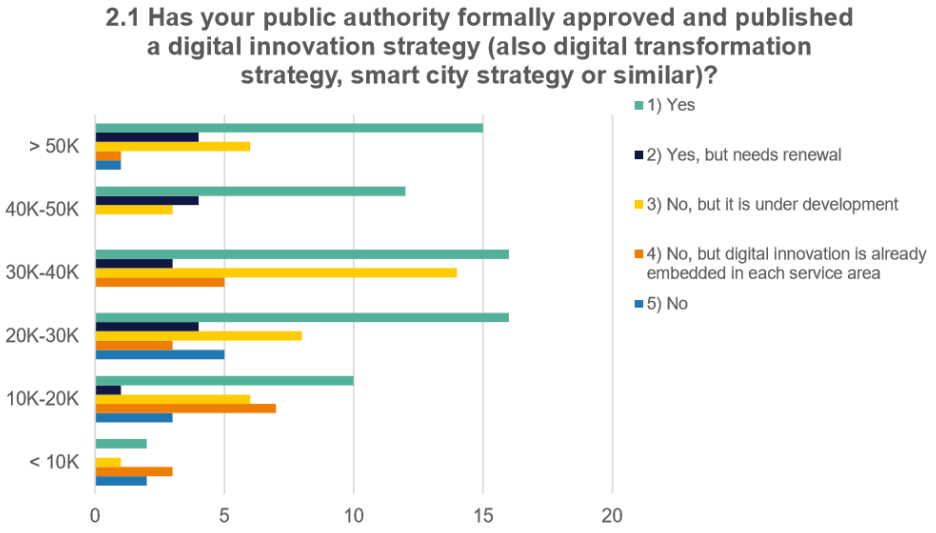
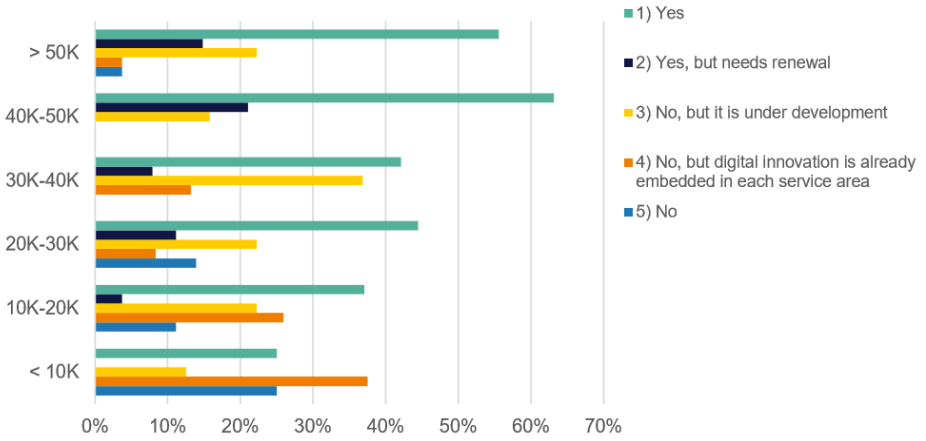


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

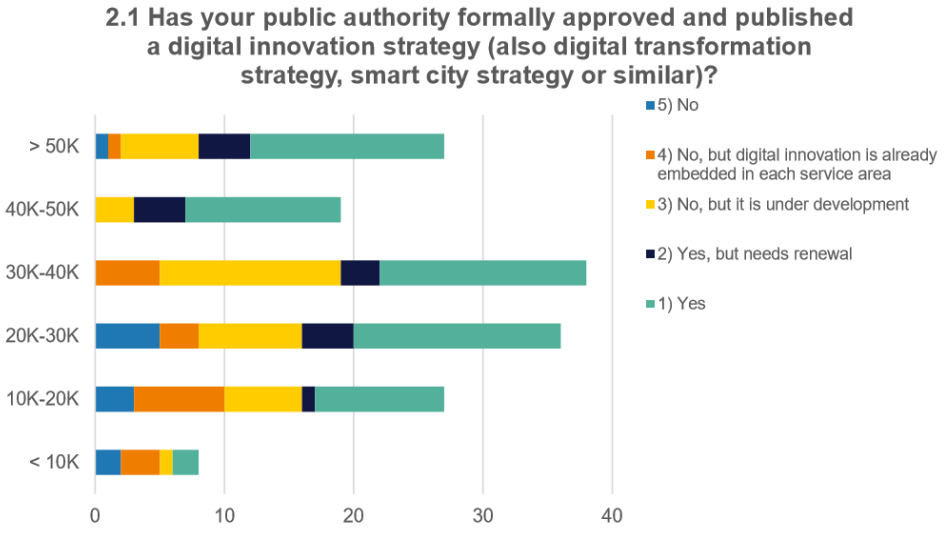


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

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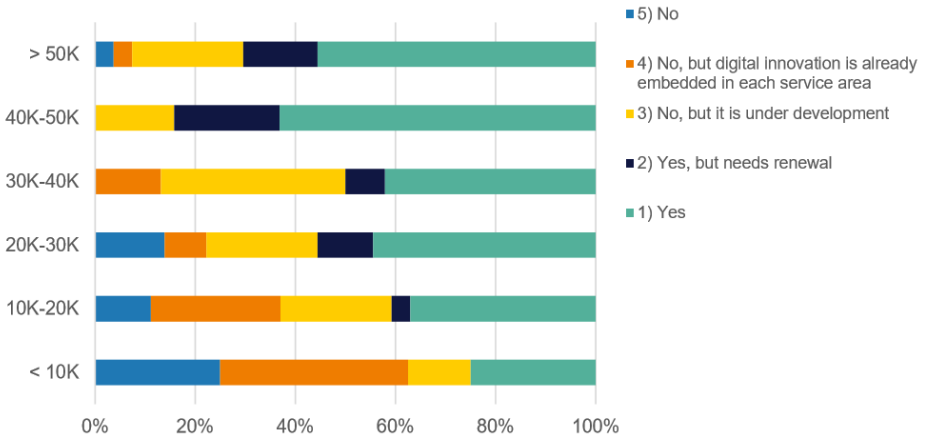
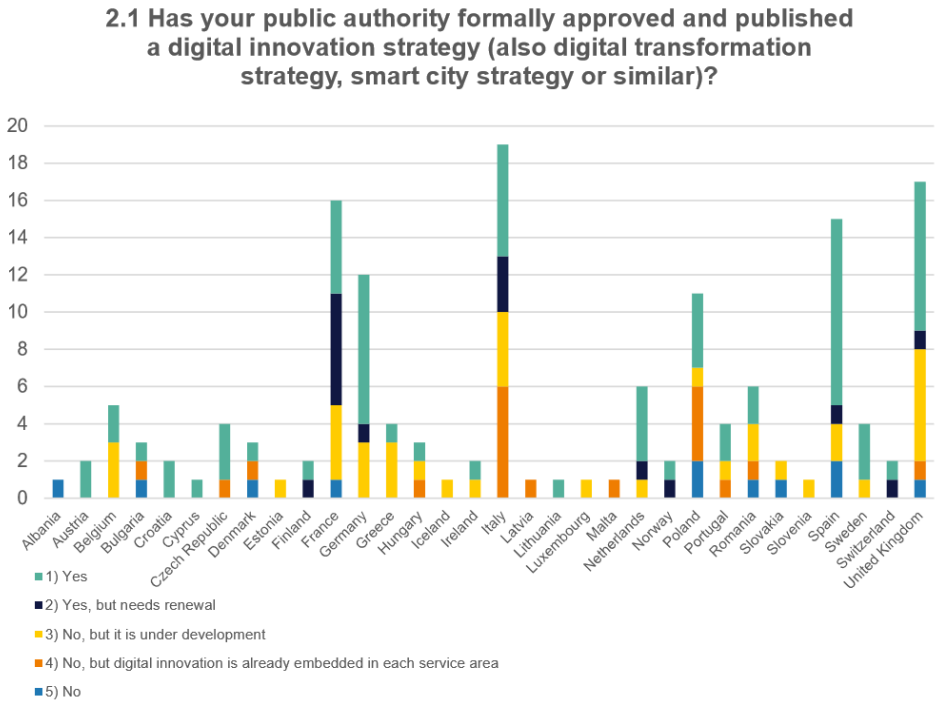
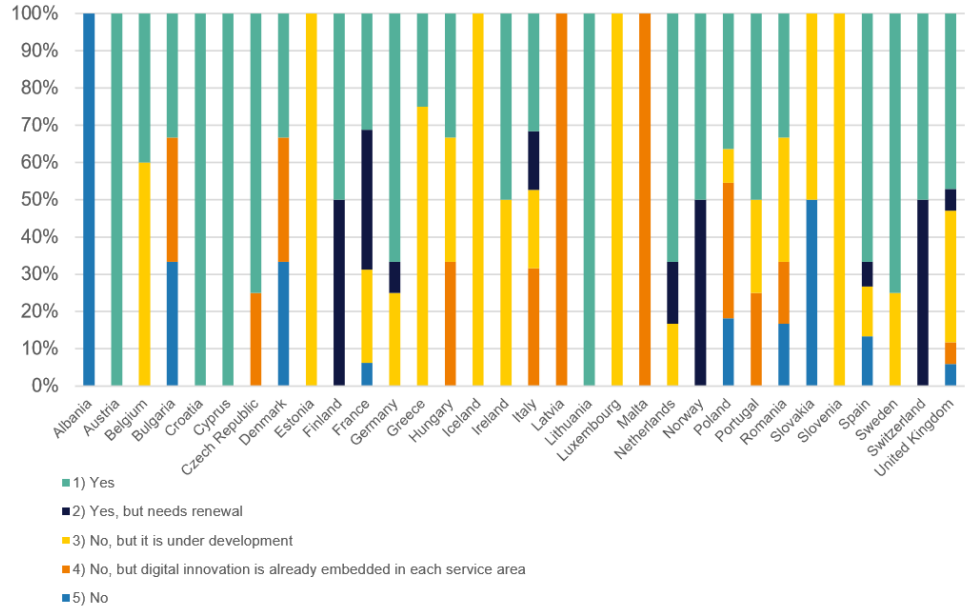


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count

2.1 Has your public authority formally approved and published a digital innovation strategy (also digital transformation strategy, smart city strategy or similar)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.3 Q_2.1.3 What is the governance of the digital innovation strategy?

2.1.3 What is the governance of the digital innovation strategy?

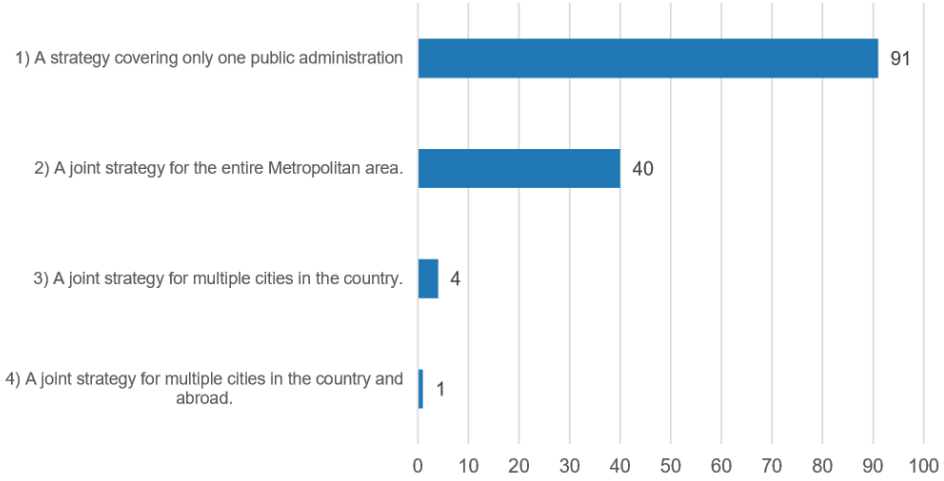
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **123 (50%)**

Answer	*Count*	*Percentage**
1) A strategy covering only one public administration	91	74%
2) A joint strategy for the entire Metropolitan area.	40	33%
3) A joint strategy for multiple cities in the country.	4	3%
4) A joint strategy for multiple cities in the country and abroad.	1	1%

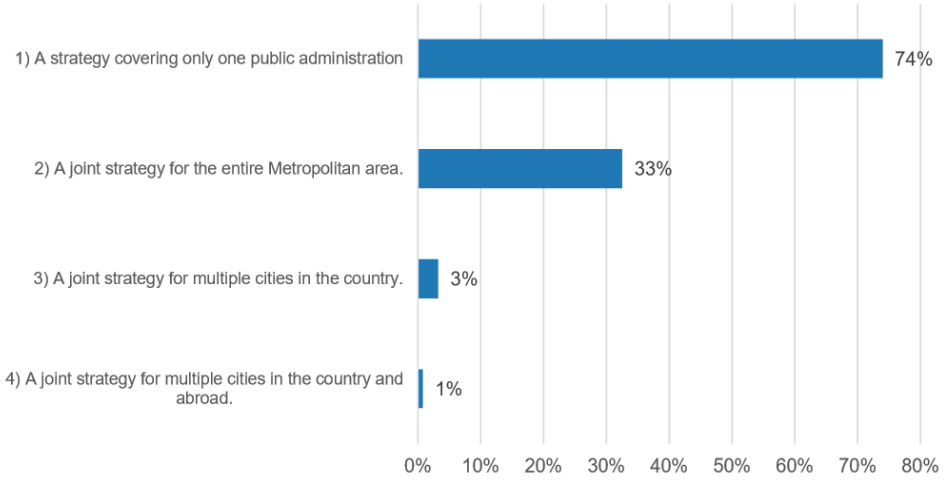
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.1.3 What is the governance of the digital innovation strategy?



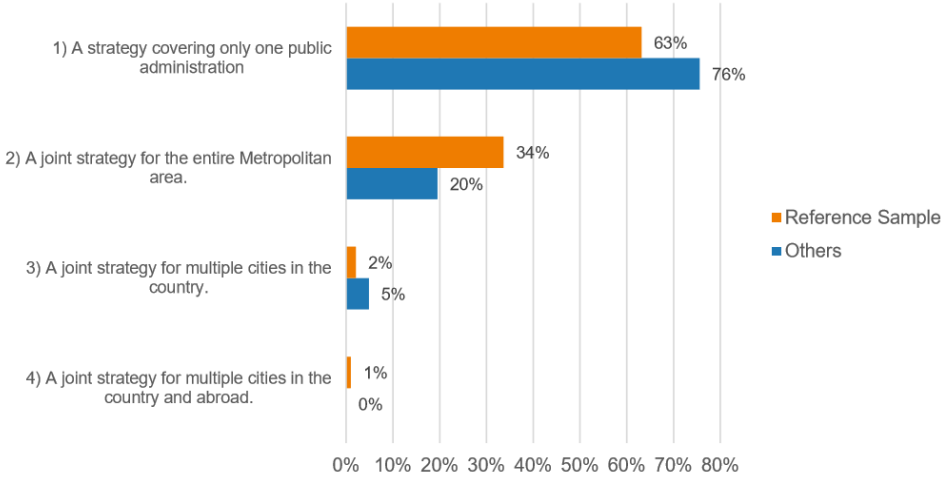
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

2.1.3 What is the governance of the digital innovation strategy?



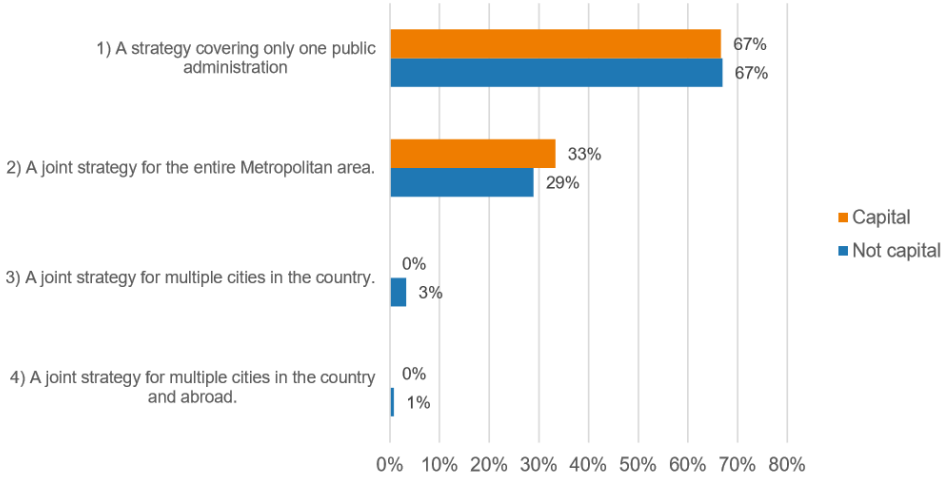
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

2.1.3 What is the governance of the digital innovation strategy?



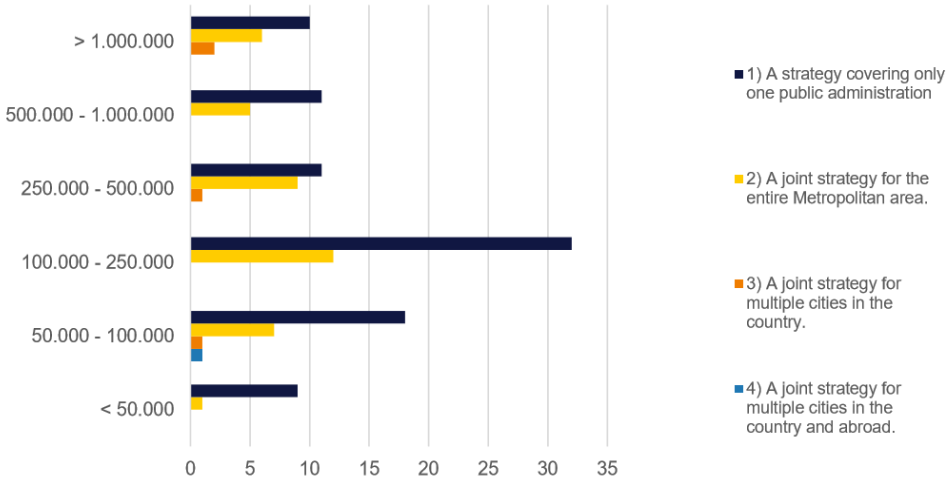
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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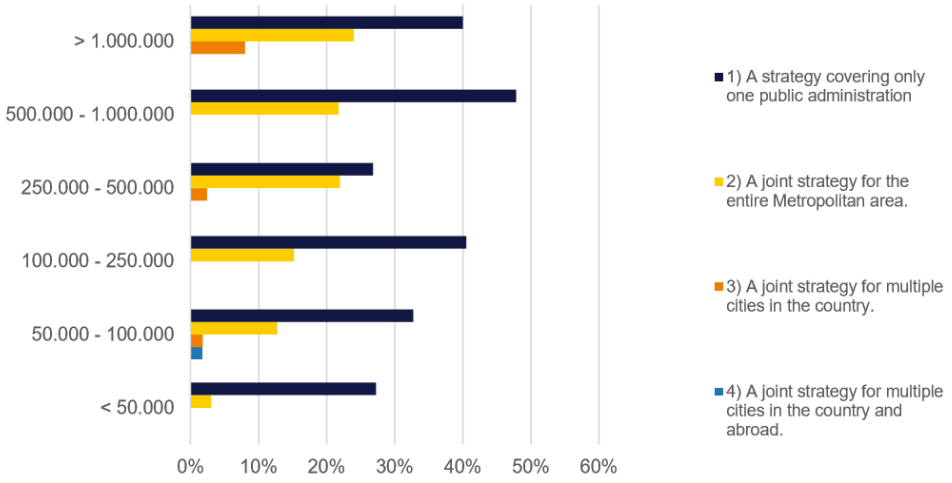

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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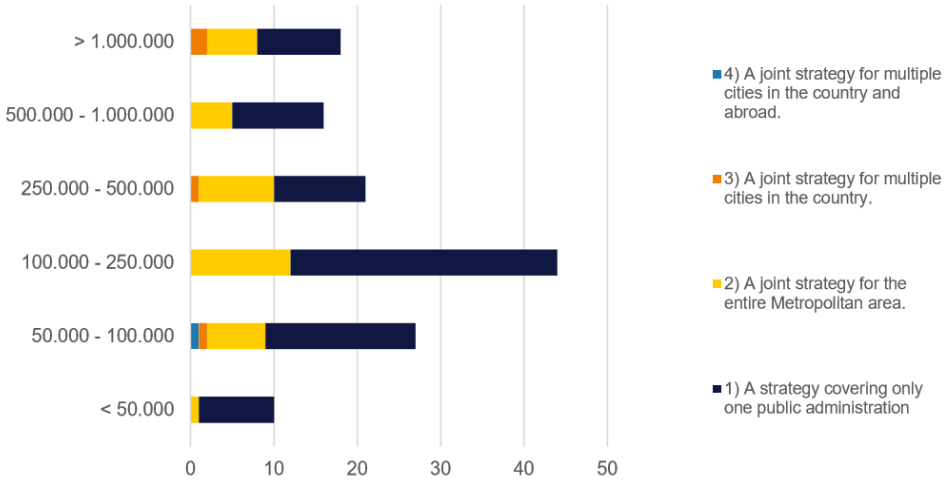

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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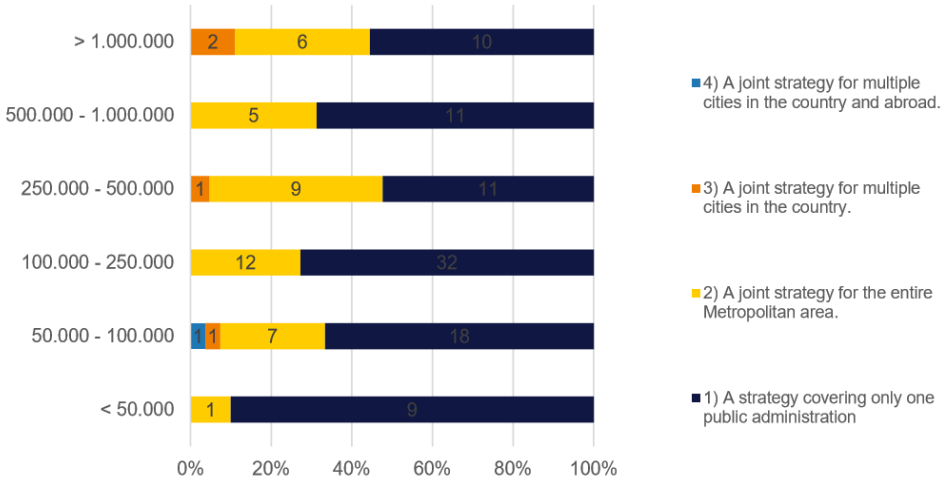

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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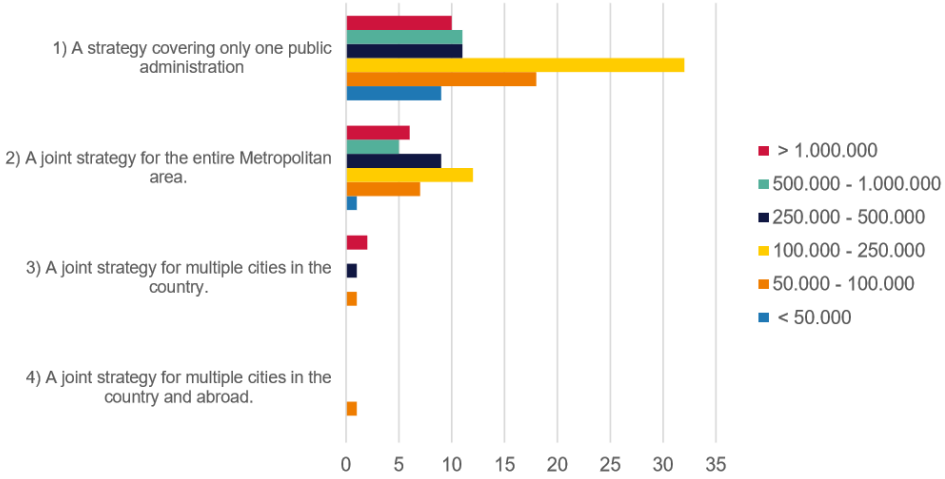

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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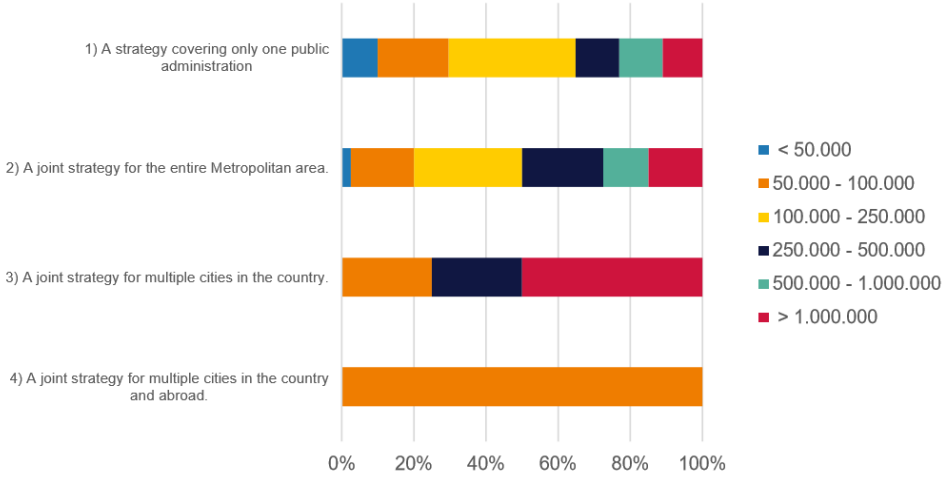

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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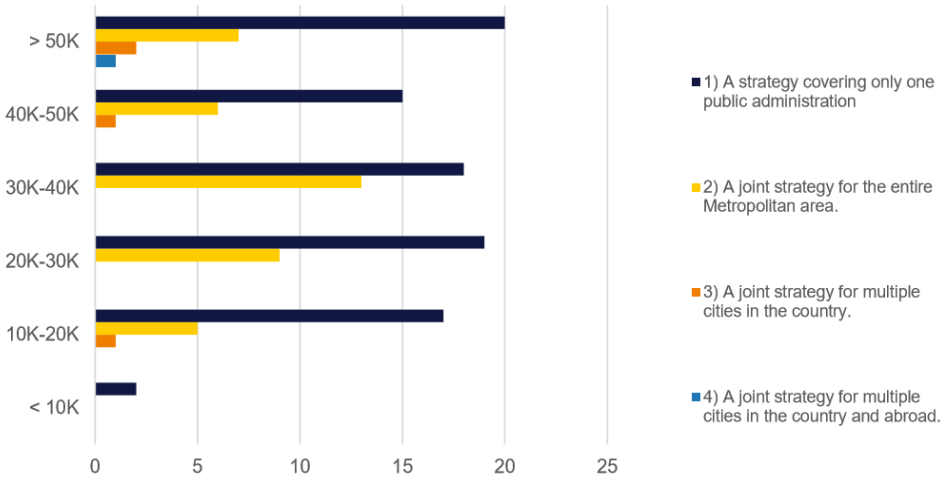
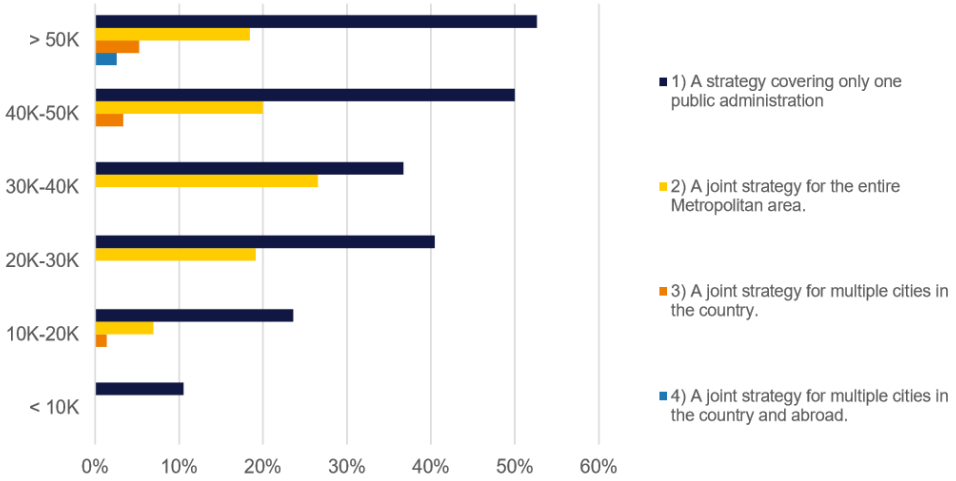


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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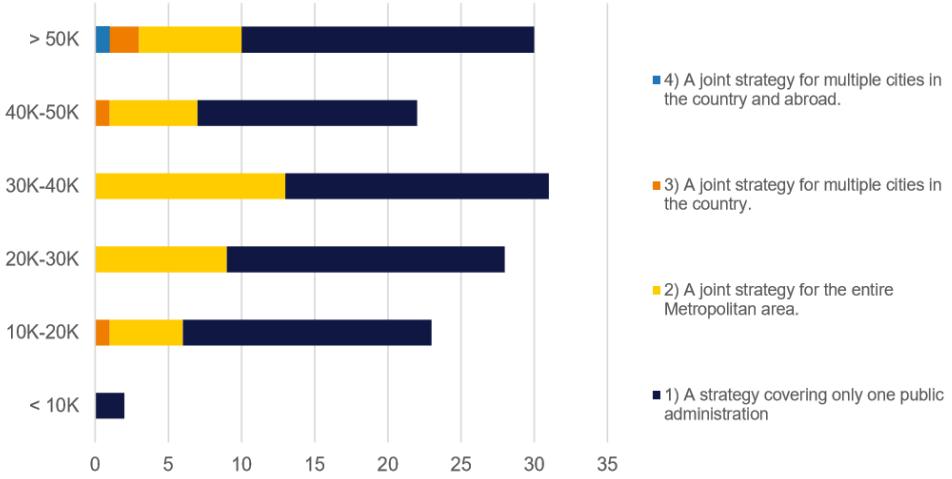

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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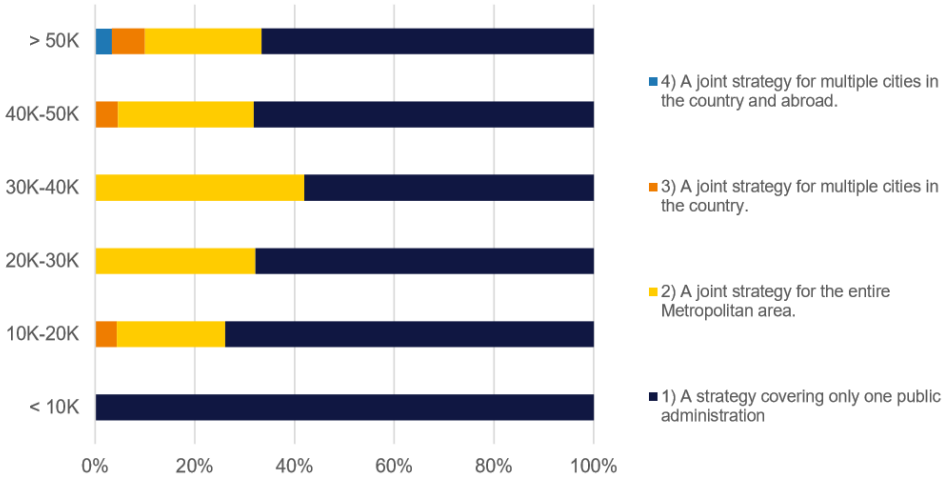

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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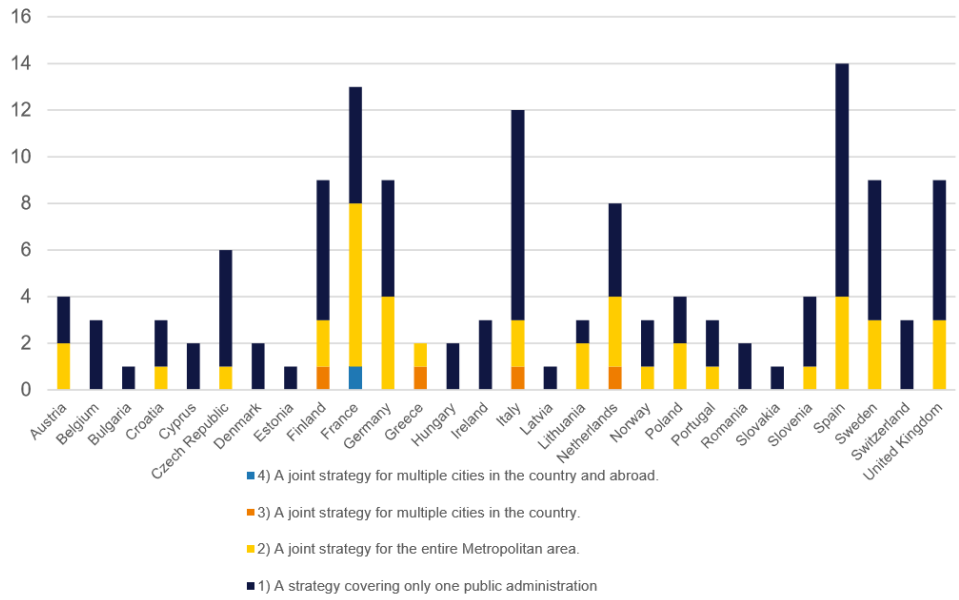
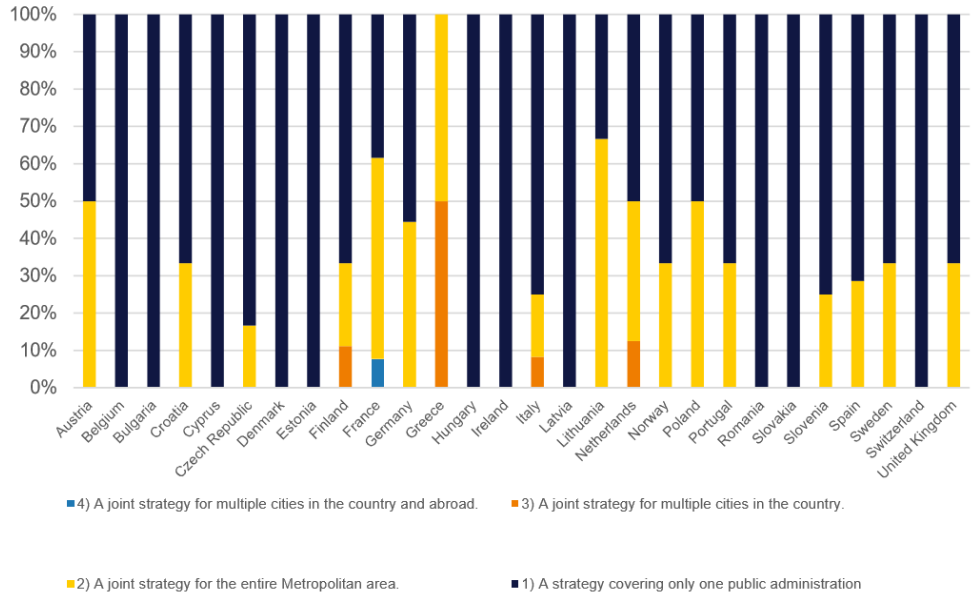


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

2.1.3 What is the governance of the digital innovation strategy?

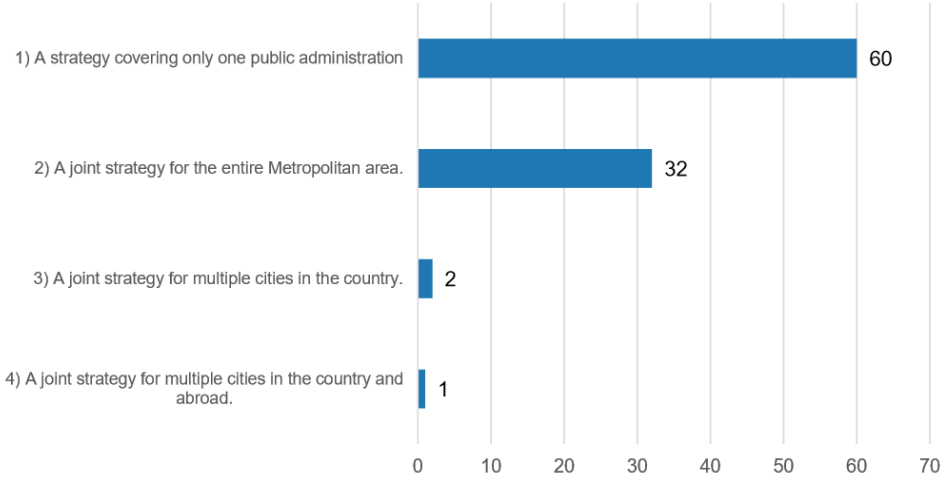
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **87 (56%)**

Answer	*Count*	*Percentage**
1) A strategy covering only one public administration	60	69%
2) A joint strategy for the entire Metropolitan area.	32	37%
3) A joint strategy for multiple cities in the country.	2	2%
4) A joint strategy for multiple cities in the country and abroad.	1	1%

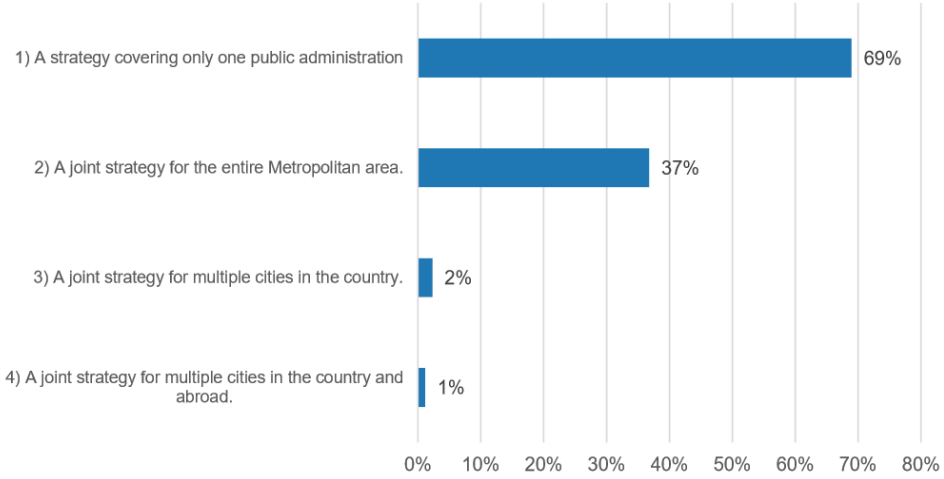
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

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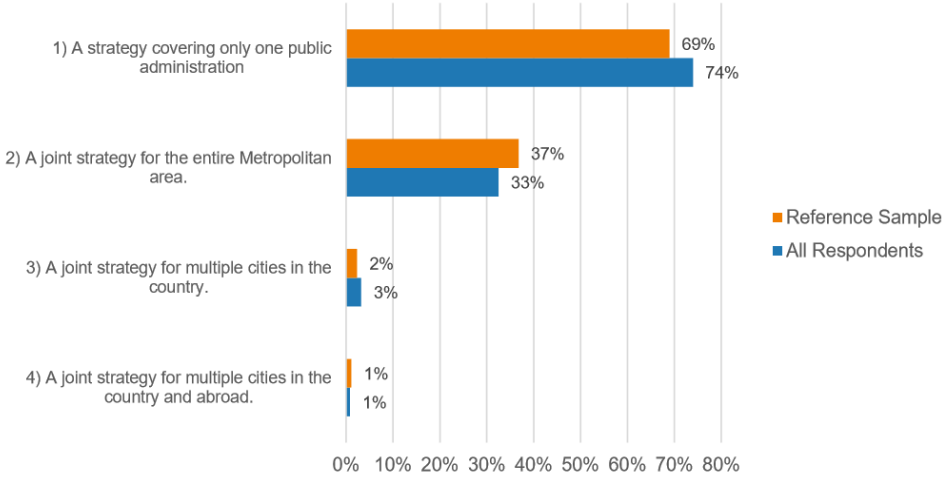

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Multiple choice	Reference Sample	Reference Sample	Percentage

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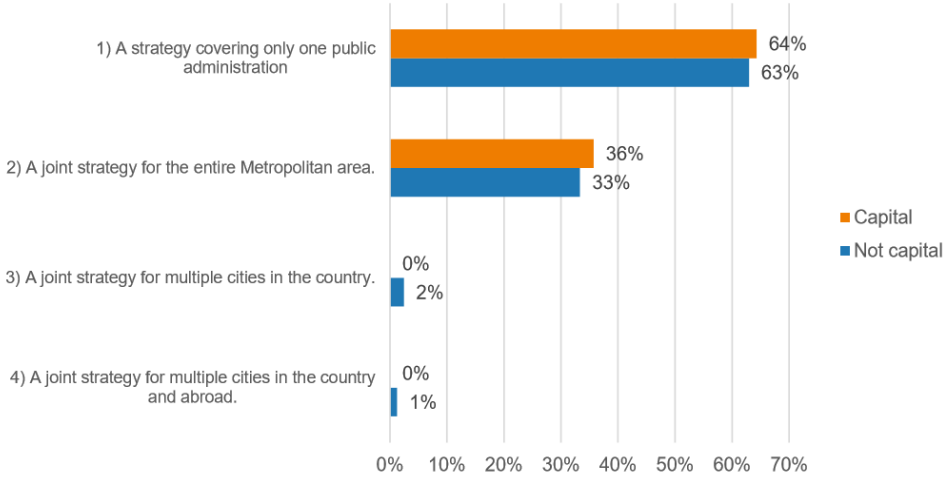

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

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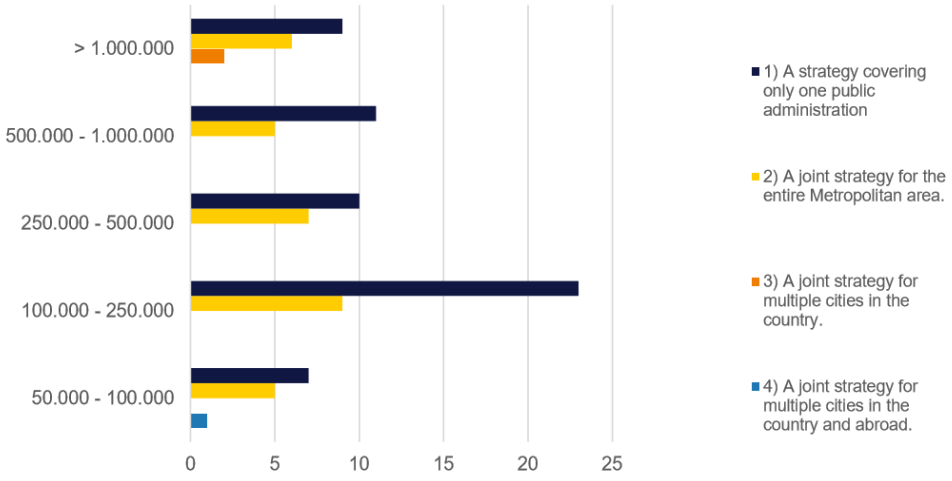

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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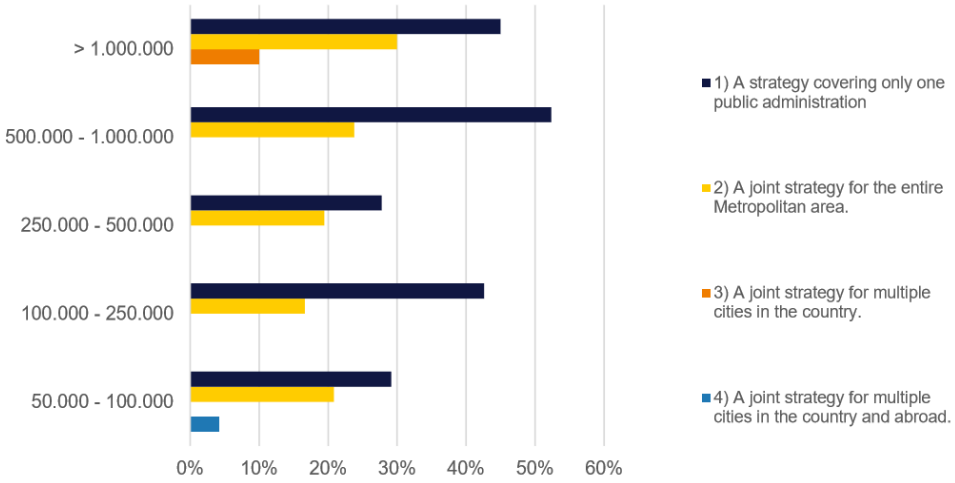

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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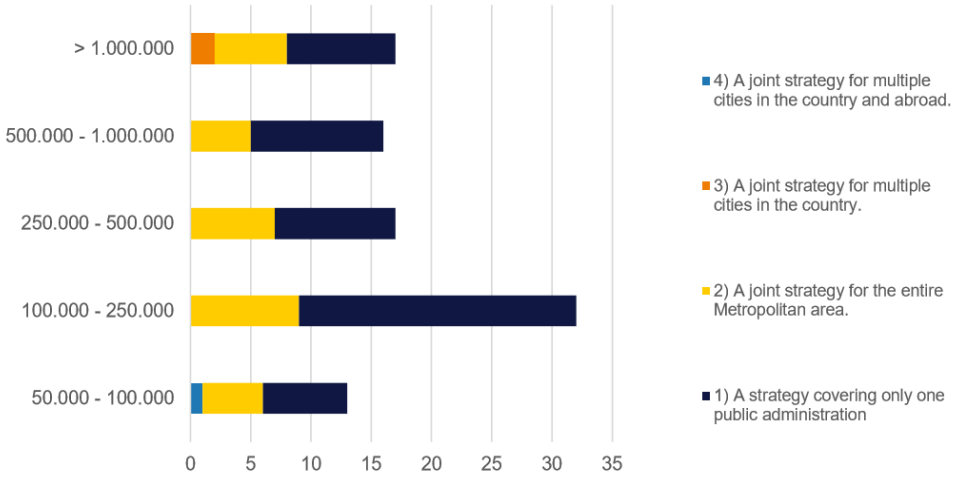

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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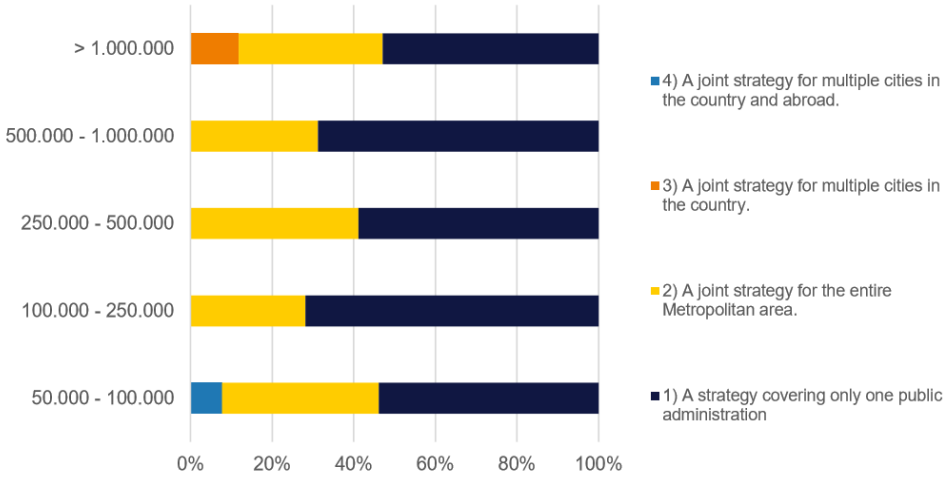

Question type	Data sample	Cluster	Value
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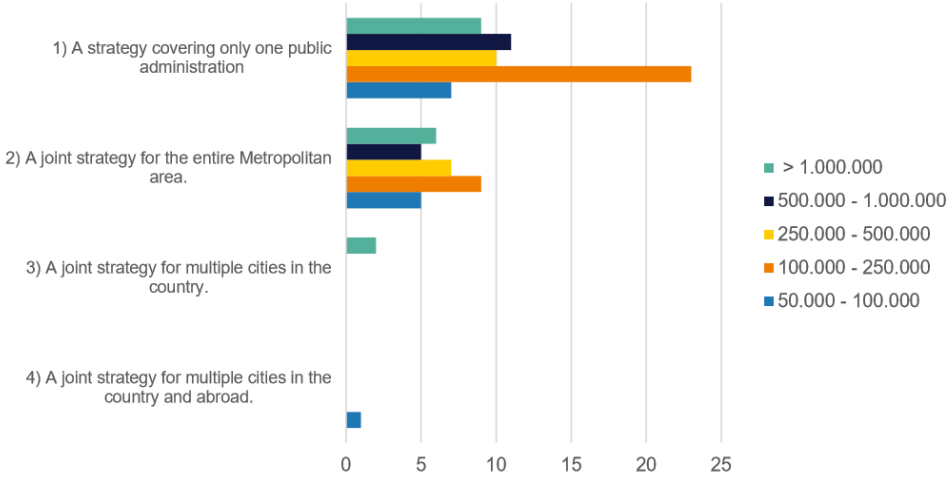

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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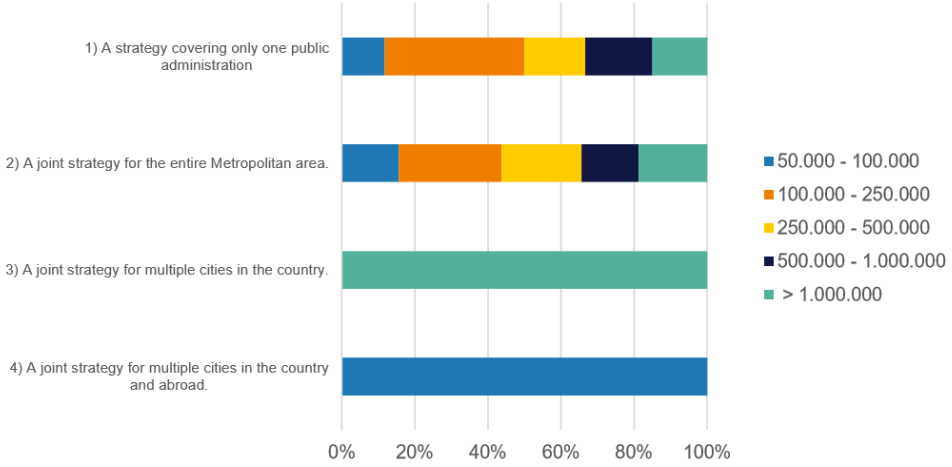
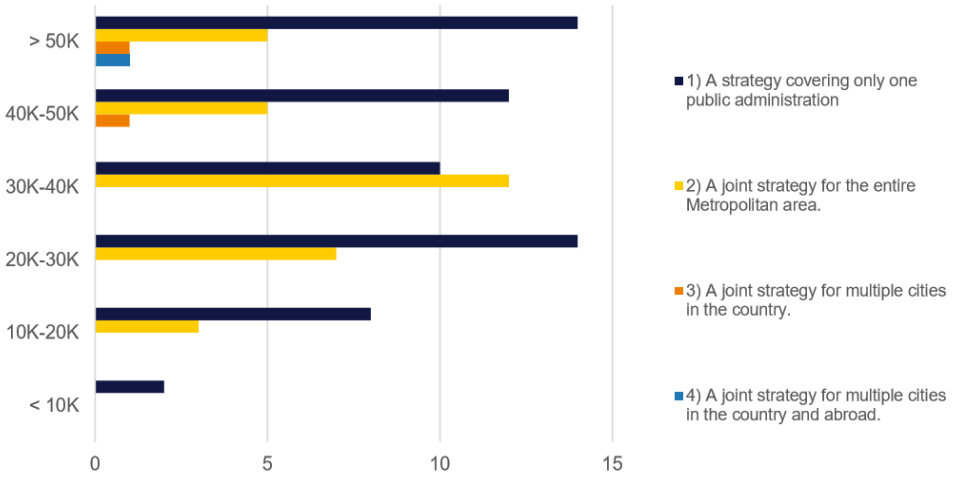


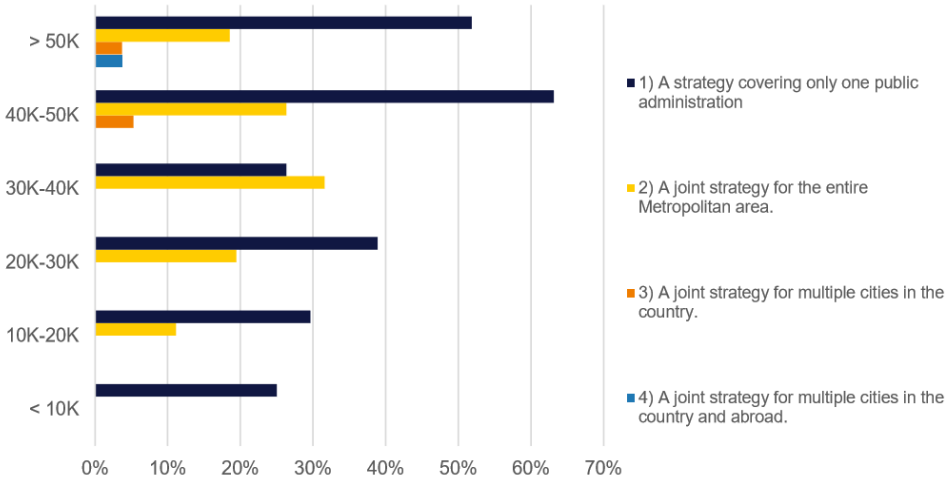
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

2.1.3 What is the governance of the digital innovation strategy?



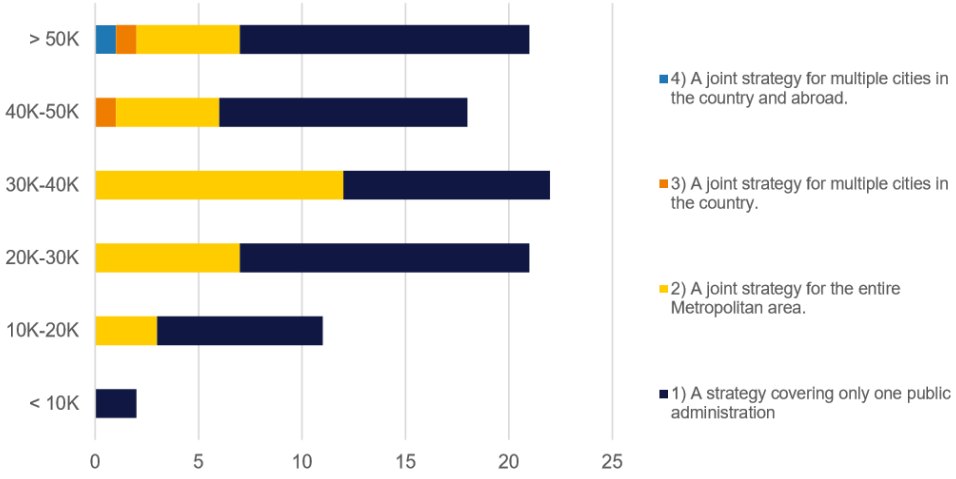
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

2.1.3 What is the governance of the digital innovation strategy?



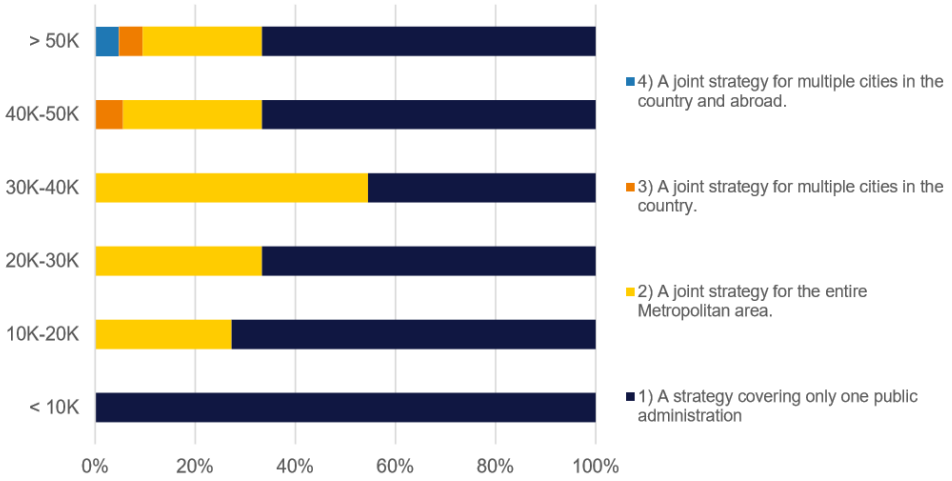
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

2.1.3 What is the governance of the digital innovation strategy?



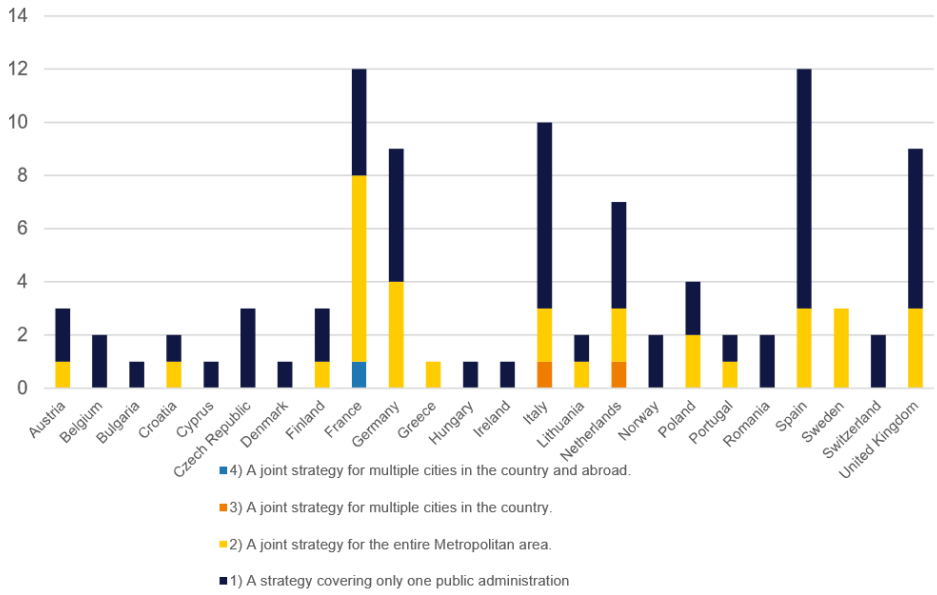
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

2.1.3 What is the governance of the digital innovation strategy?



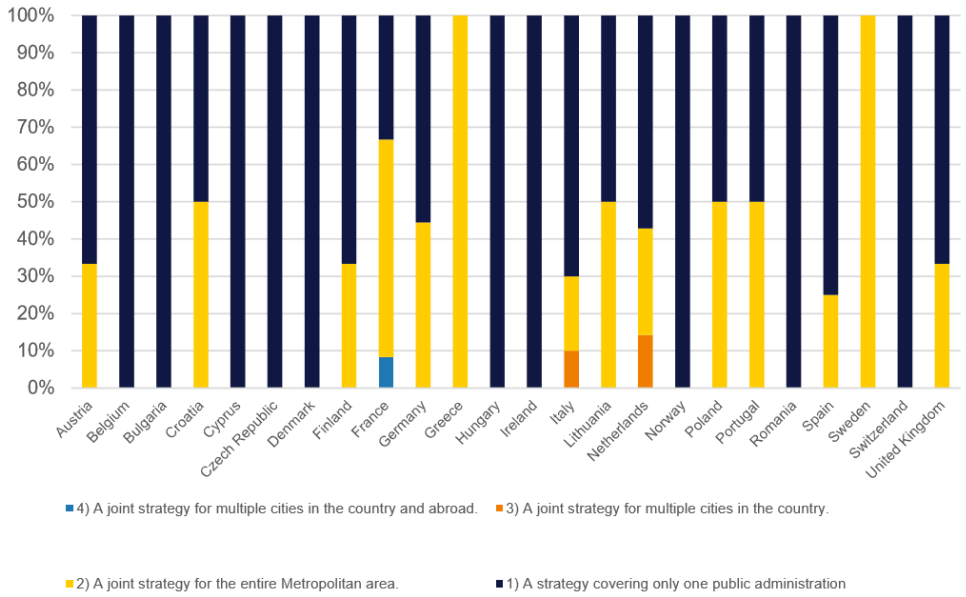
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

2.1.3 What is the governance of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.4 Q_2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (such as, for example on EU level: the INSPIRE directive, EU Data Directive, Tallinn declaration, living.in.eu declaration, smart specialisation strategies, etc)?

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?

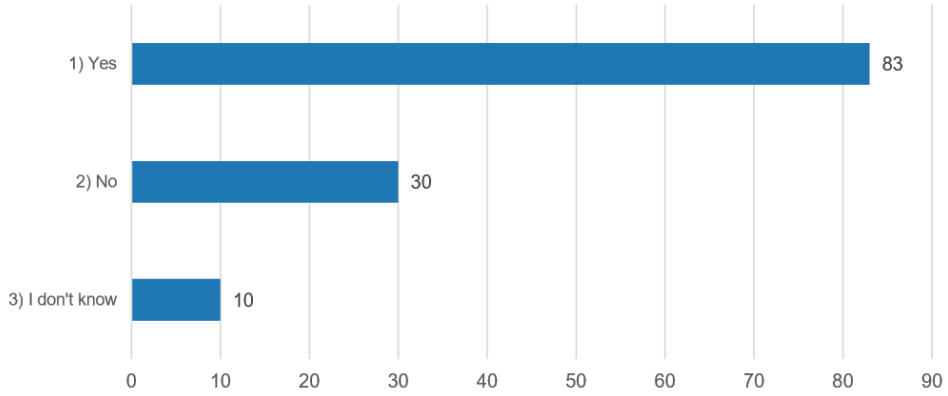
ALL RESPONDENTS

Question type: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **123 (50%)**

Answer	*Count*	*Percentage**
1) Yes	83	67%
2) No	30	24%
3) I don't know	10	8%

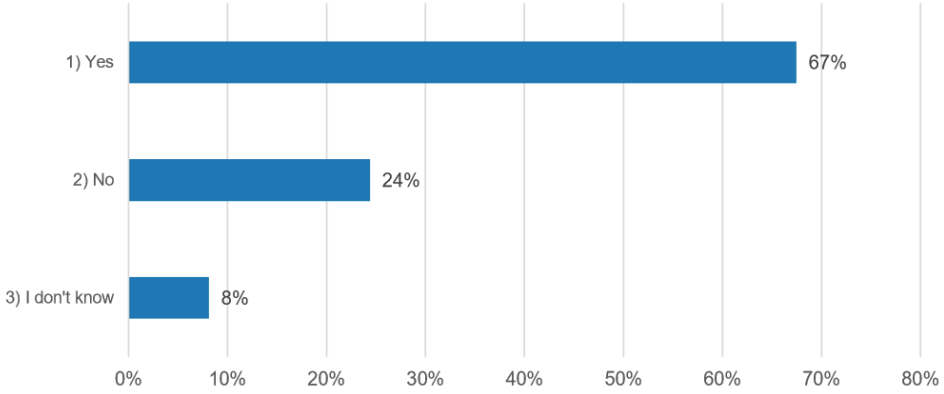
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?



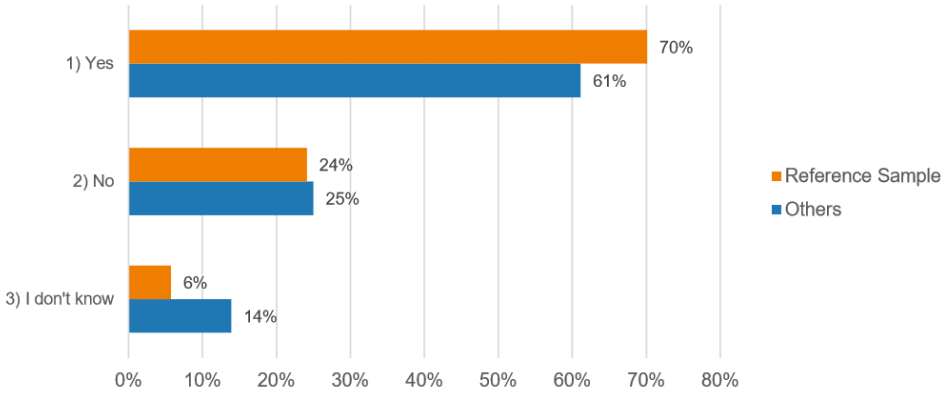
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

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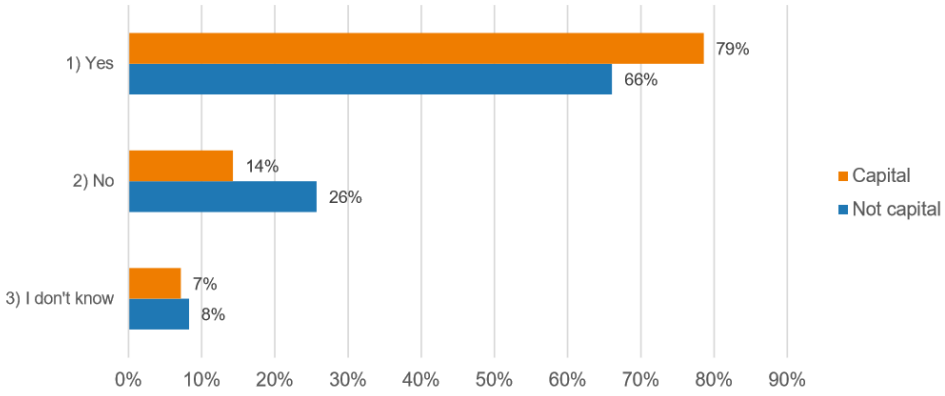
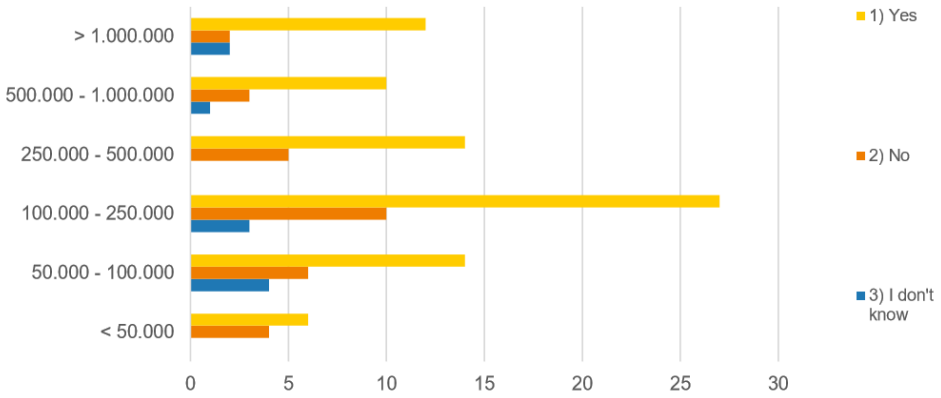


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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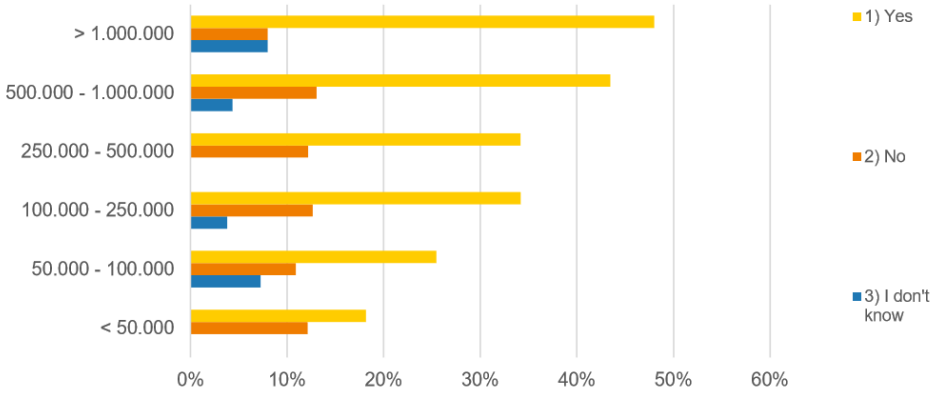

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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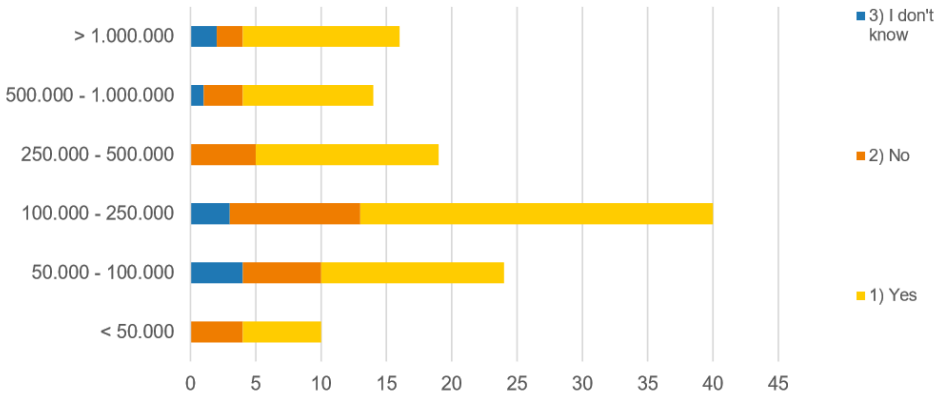

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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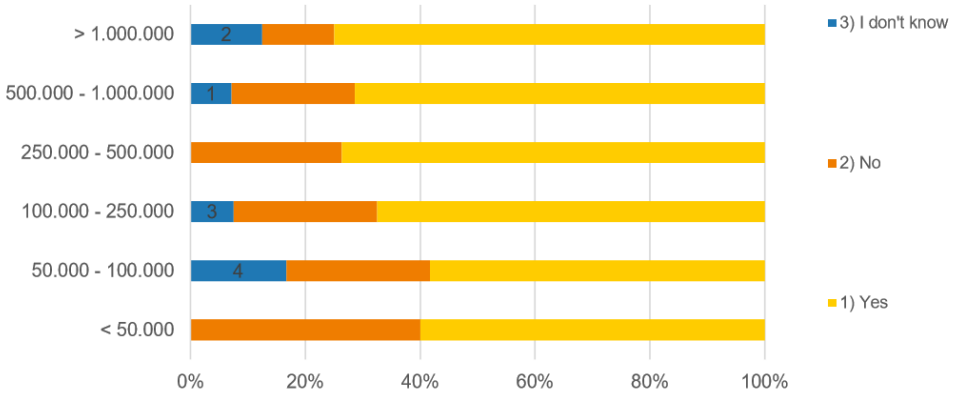

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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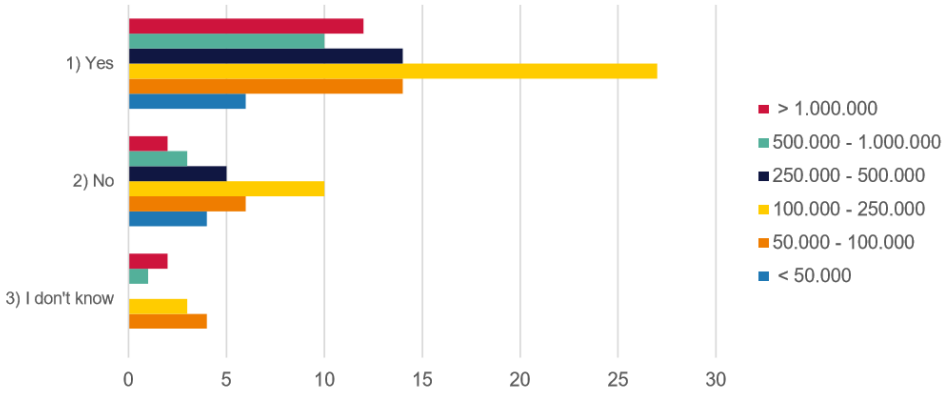

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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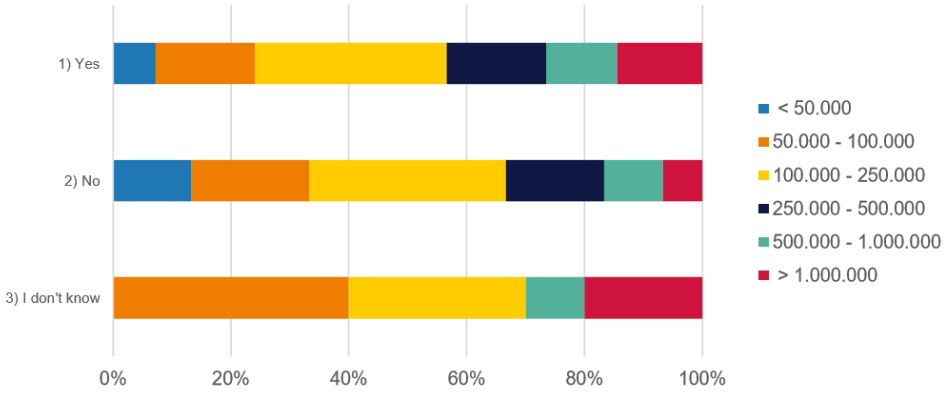

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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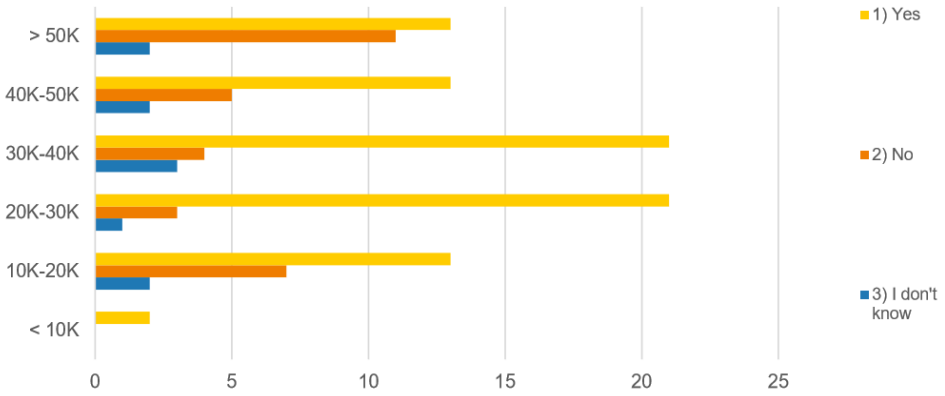

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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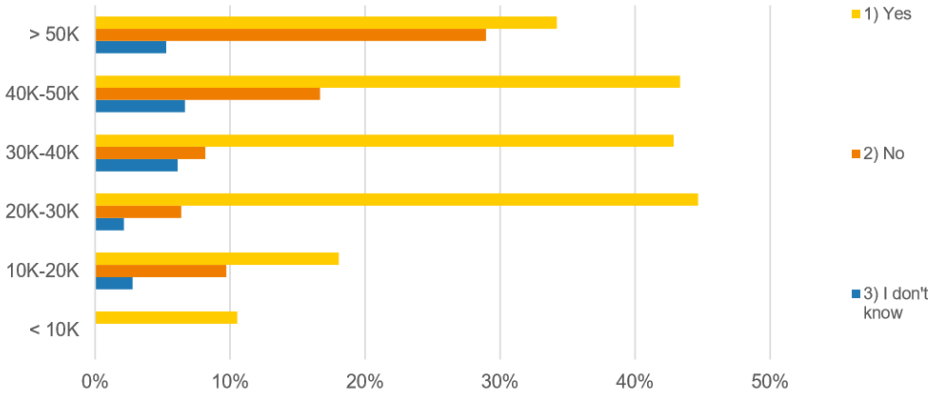

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

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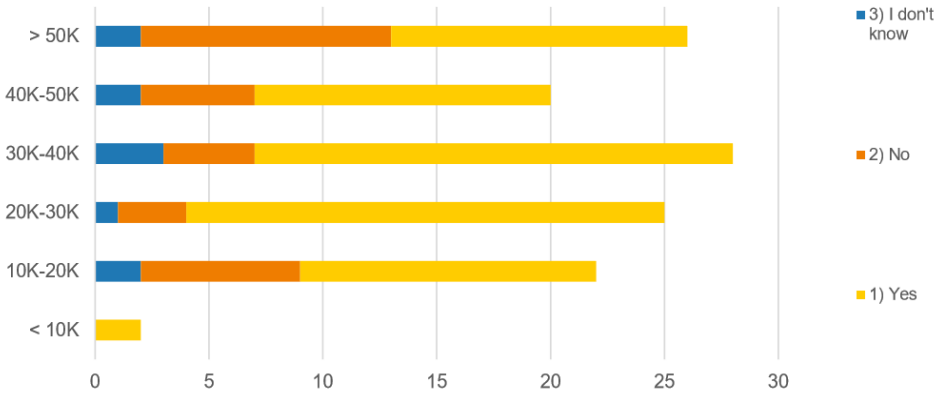

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Single choice	All Respondents	GDPPC	Count

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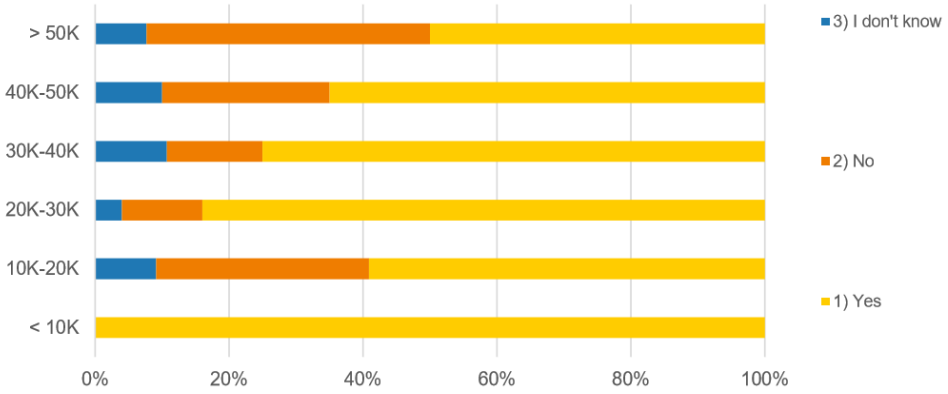
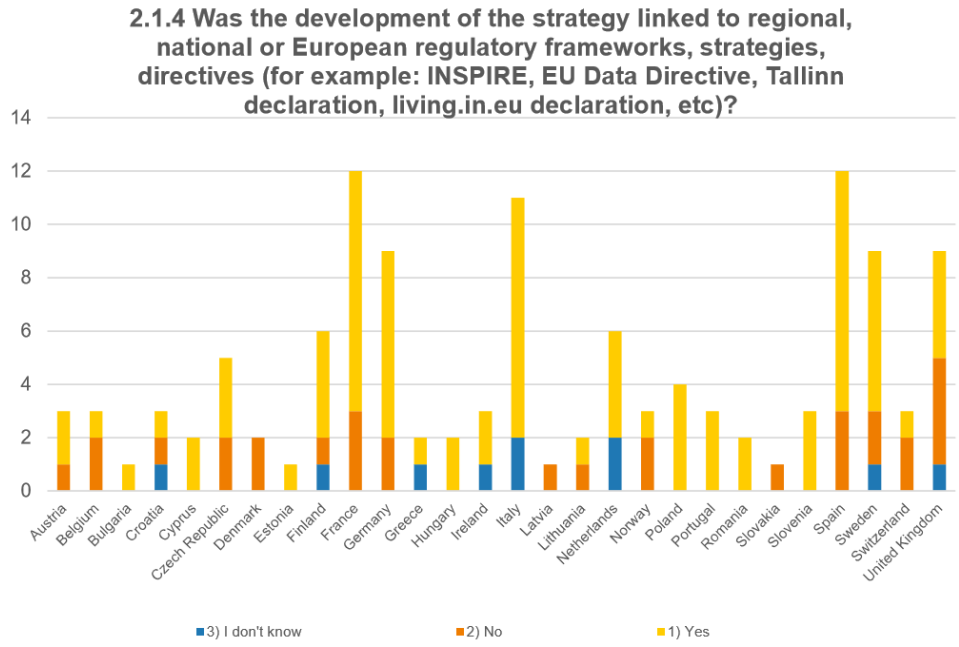
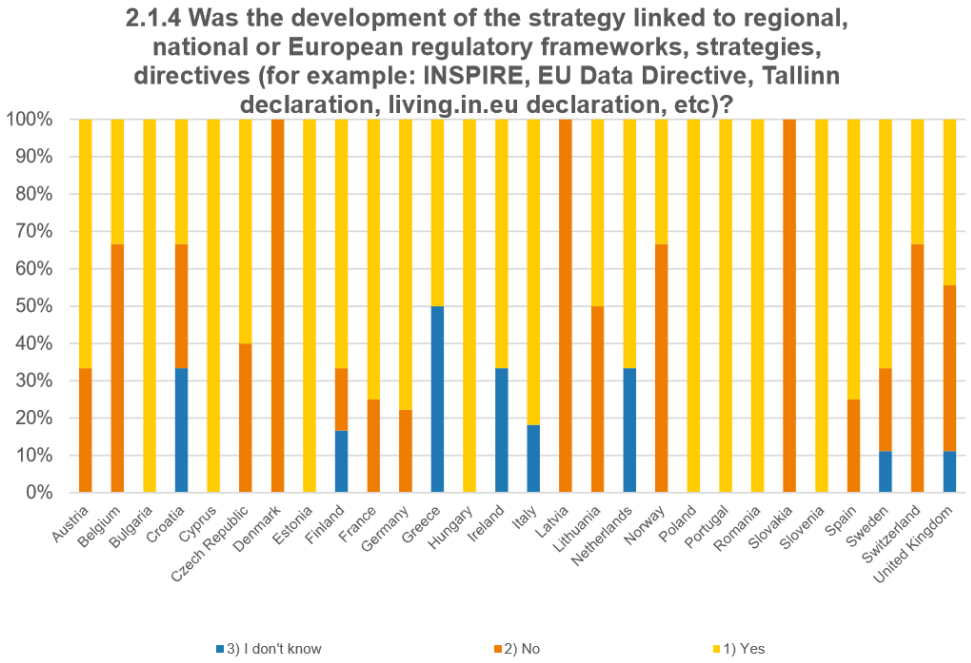


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?

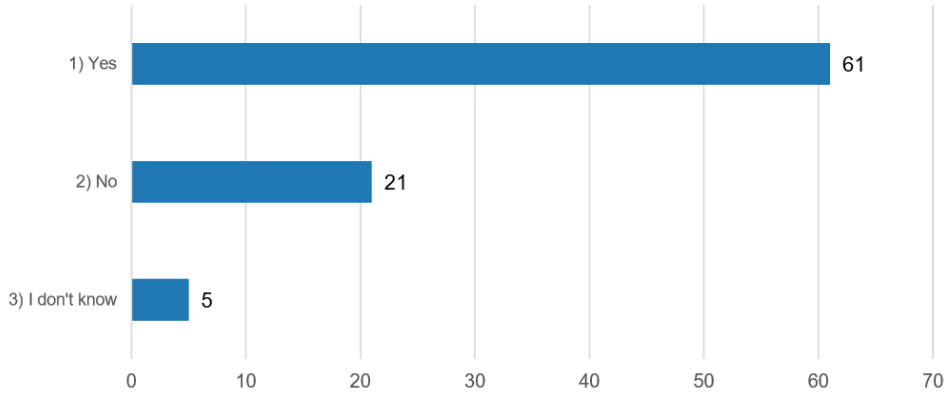
REFERENCE SAMPLE

Question type: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **87 (56%)**

Answer	*Count*	*Percentage**
1) Yes	61	70%
2) No	21	24%
3) I don't know	5	6%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

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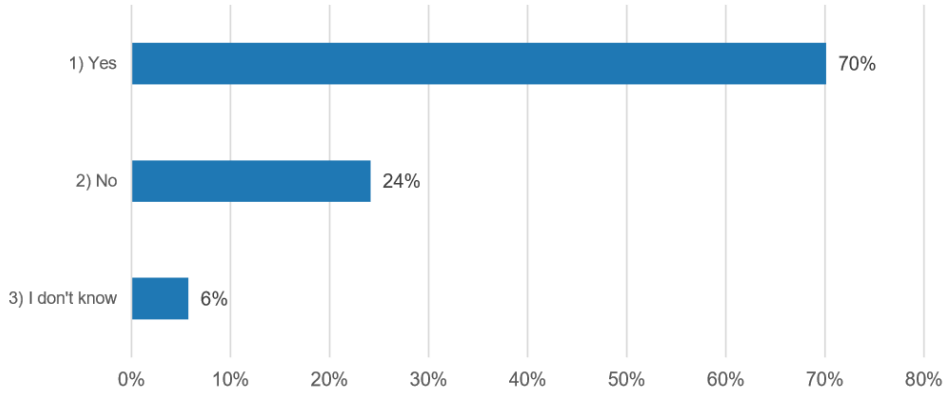

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

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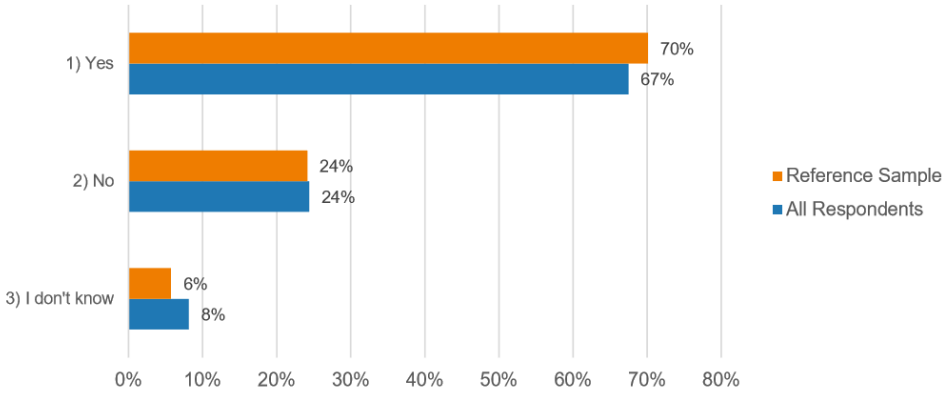

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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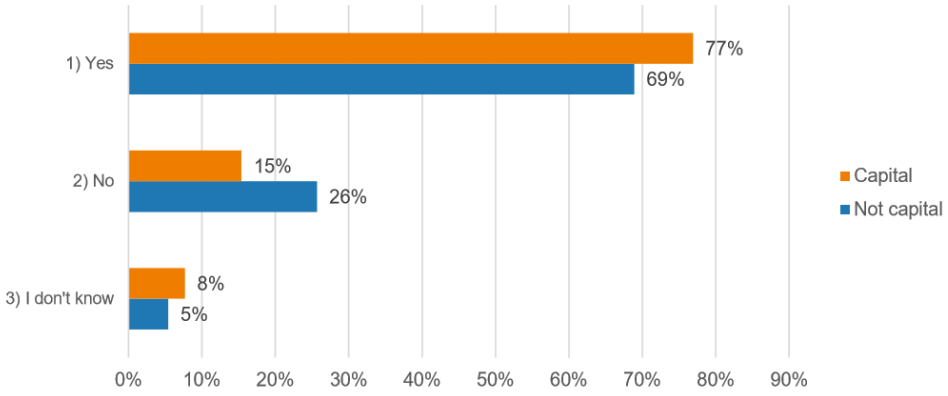
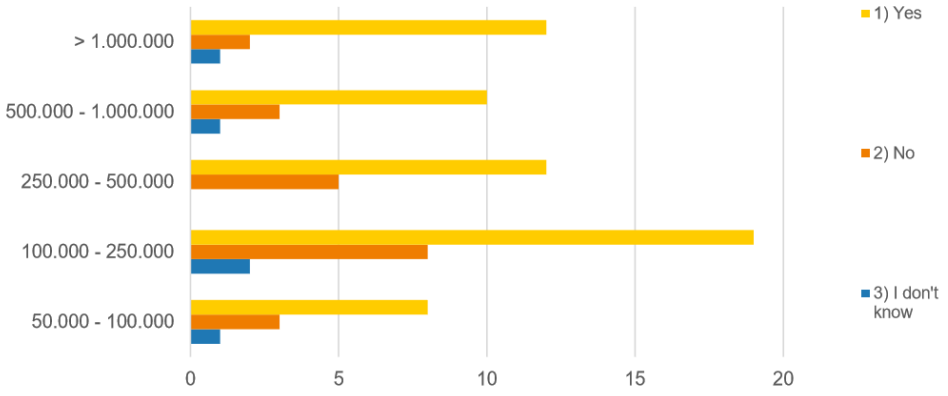


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

2.1.4 Was the development of the strategy linked to regional, national or European regulatory frameworks, strategies, directives (for example: INSPIRE, EU Data Directive, Tallinn declaration, living.in.eu declaration, etc)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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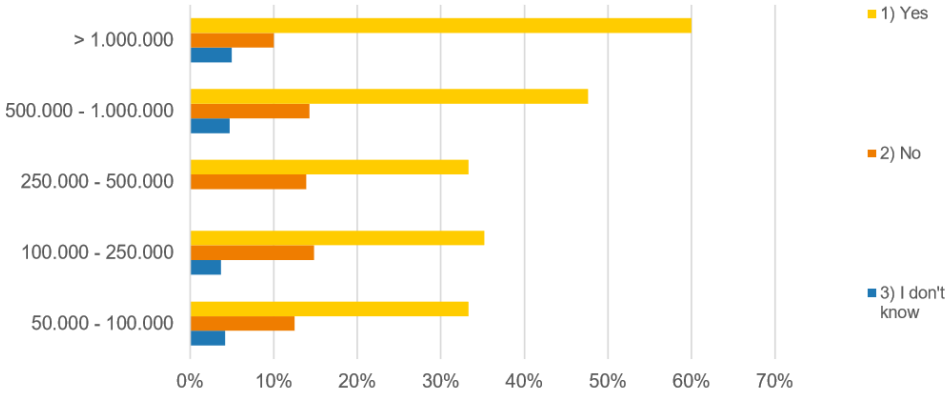

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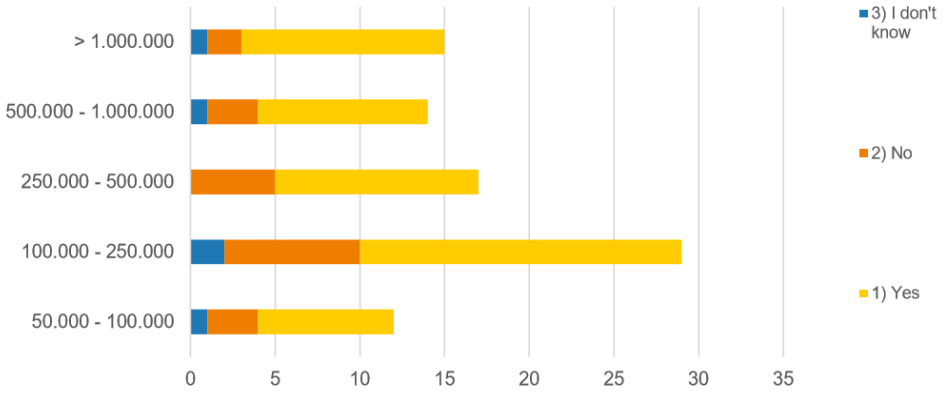

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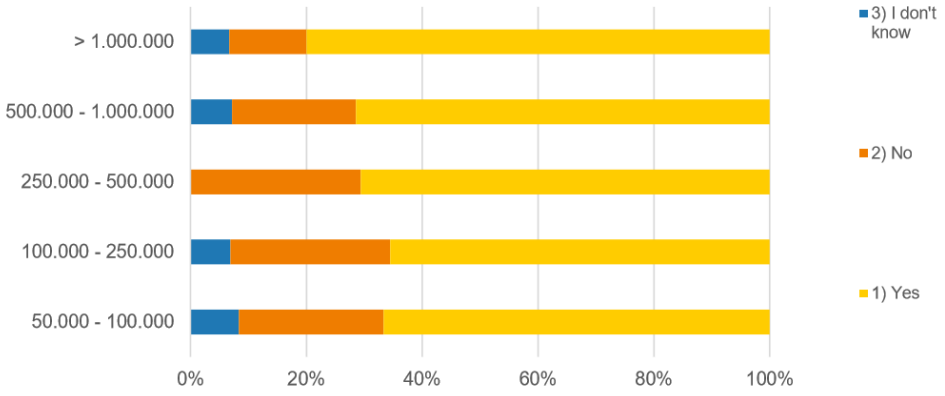

Question type	Data sample	Cluster	Value
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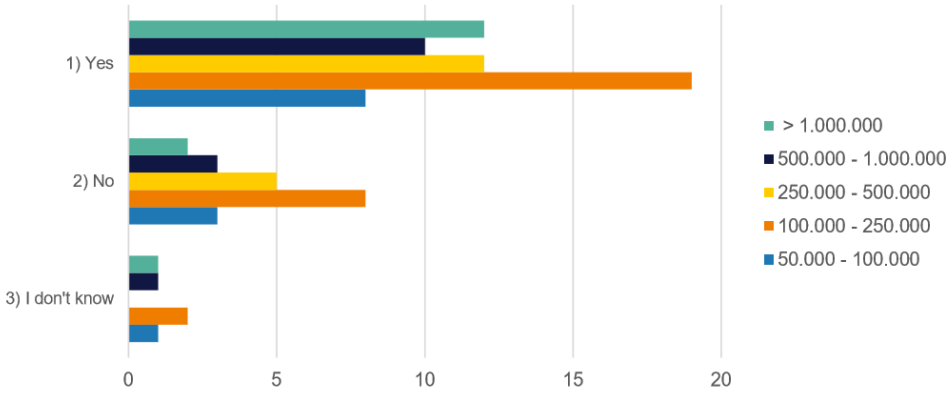

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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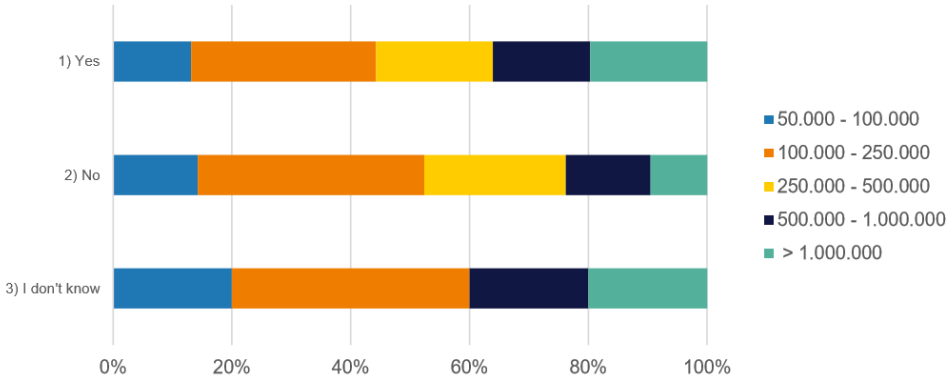

Question type	Data sample	Cluster	Value
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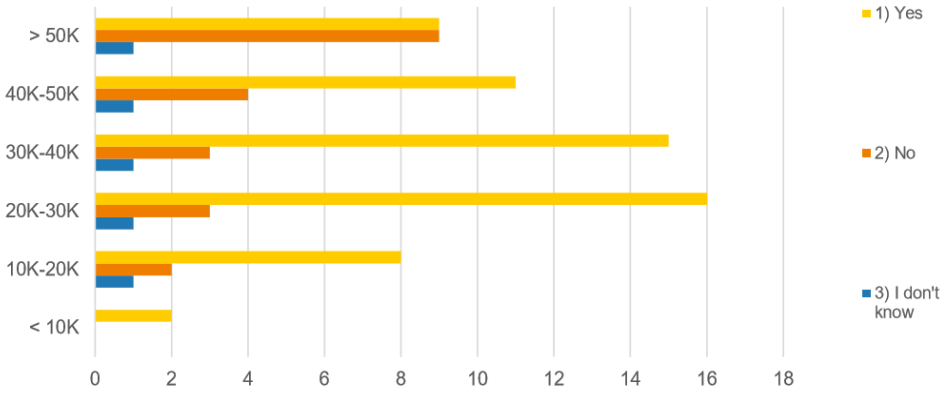

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

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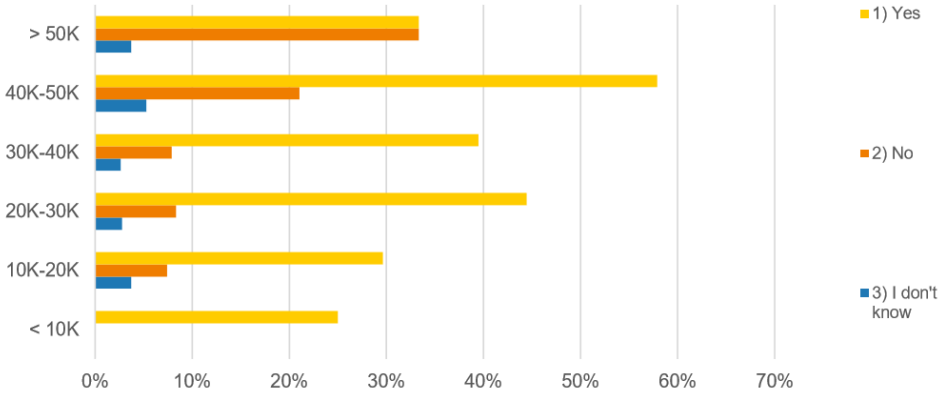

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

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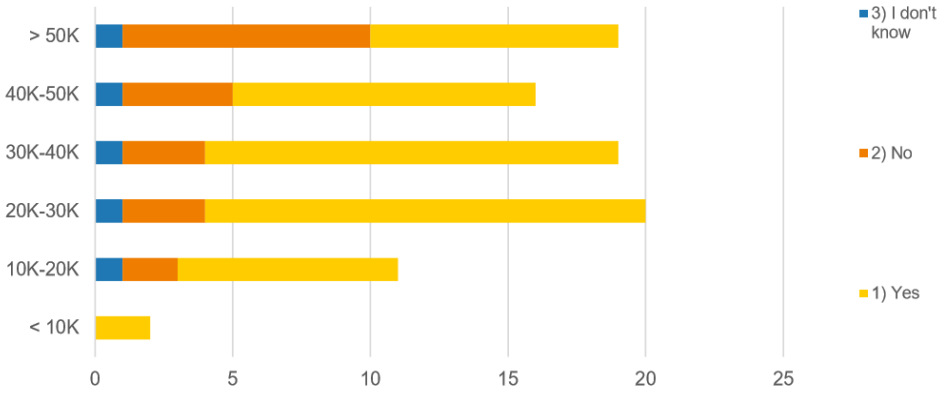

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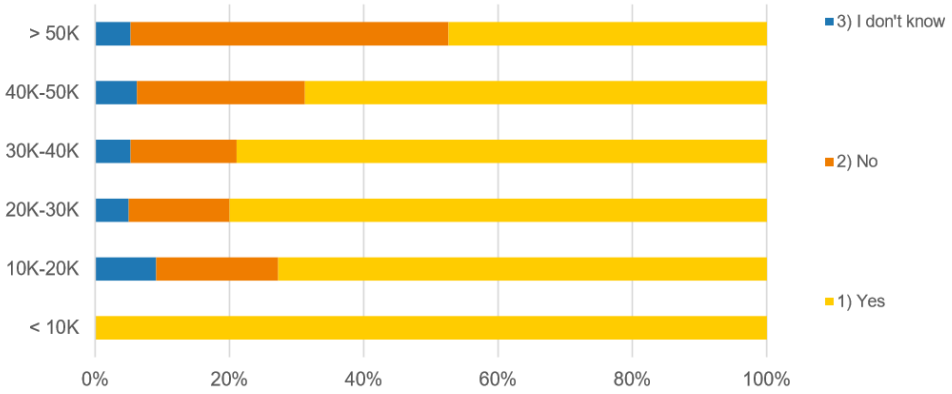
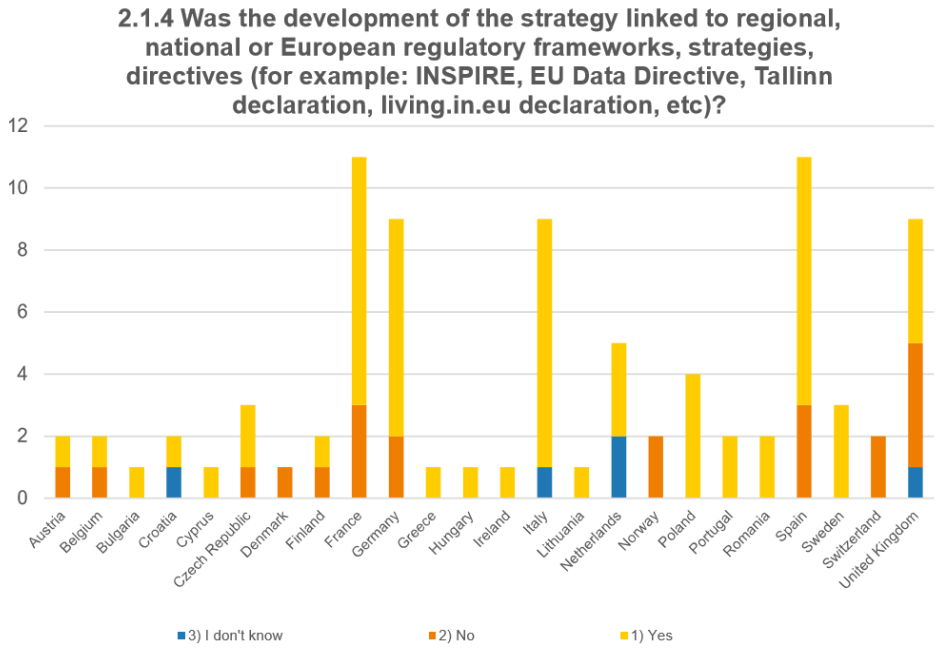
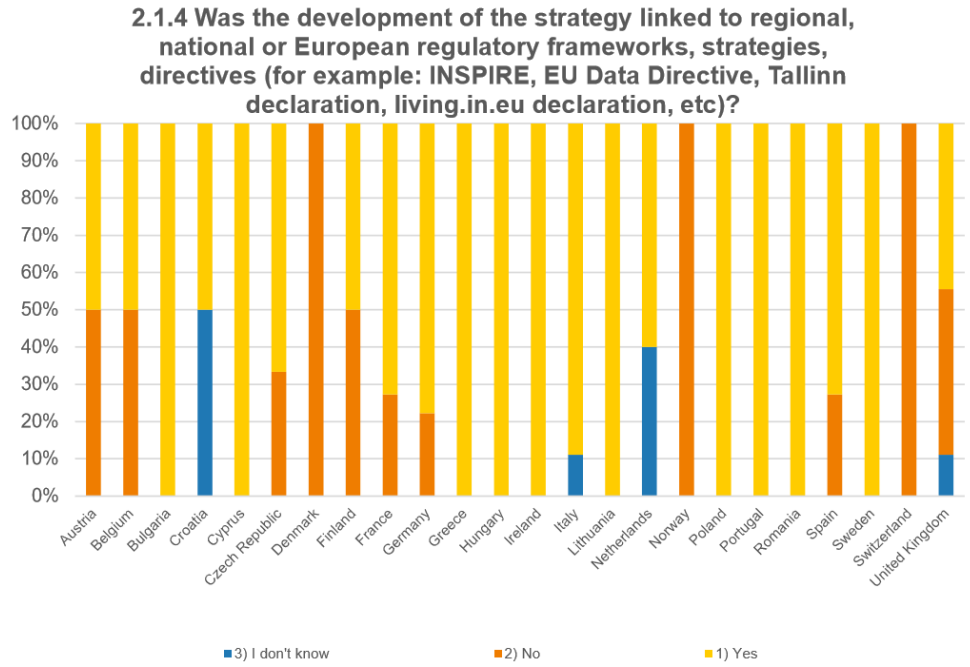


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.5 Q_2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?

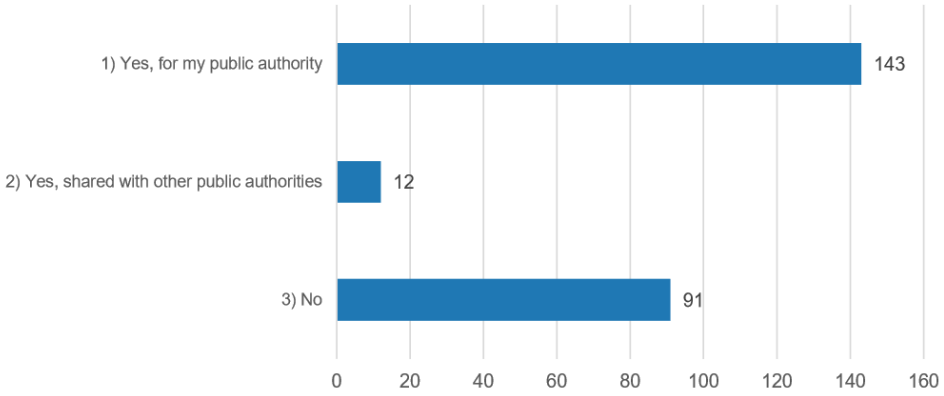
ALL RESPONDENTS

Question type:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) Yes, for my public authority	143	58%
2) Yes, shared with other public authorities	12	5%
3) No	91	37%

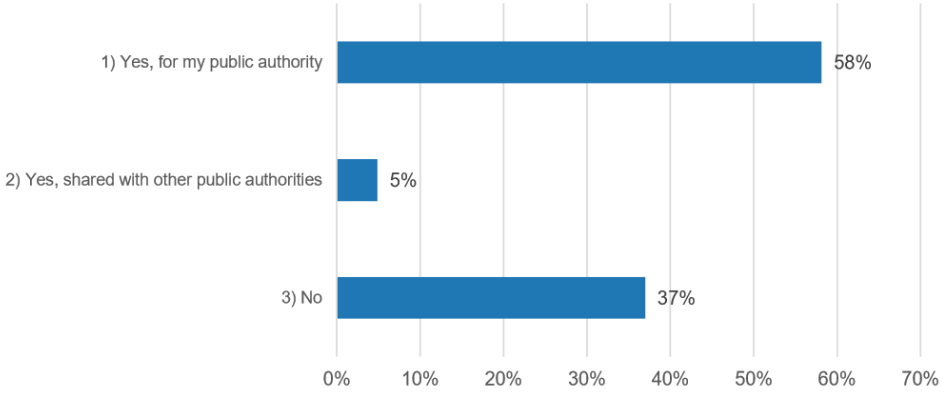
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



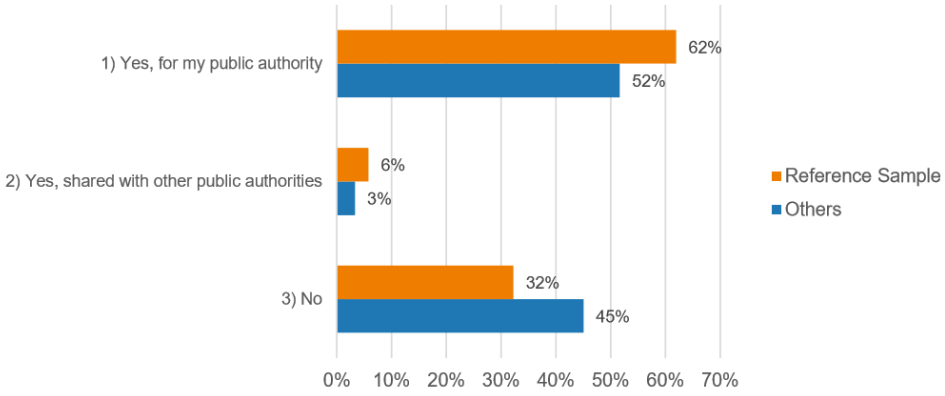
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



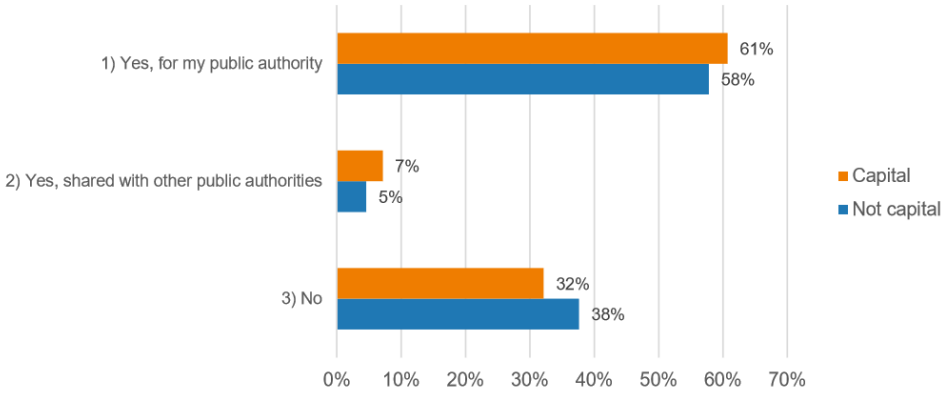
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



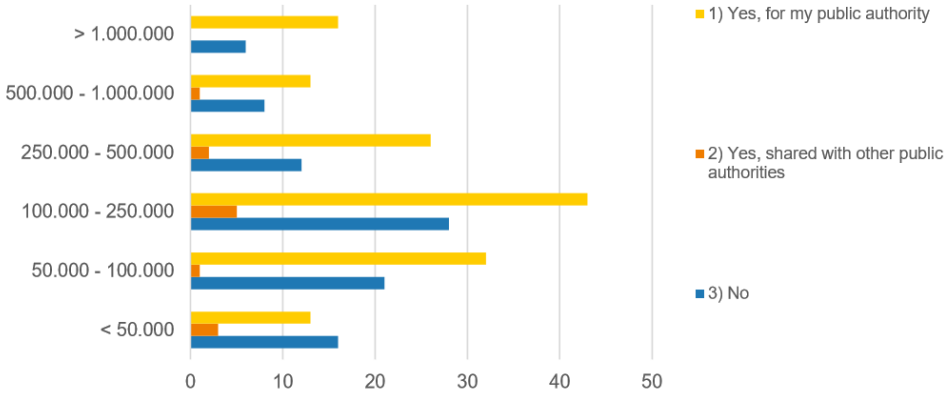
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



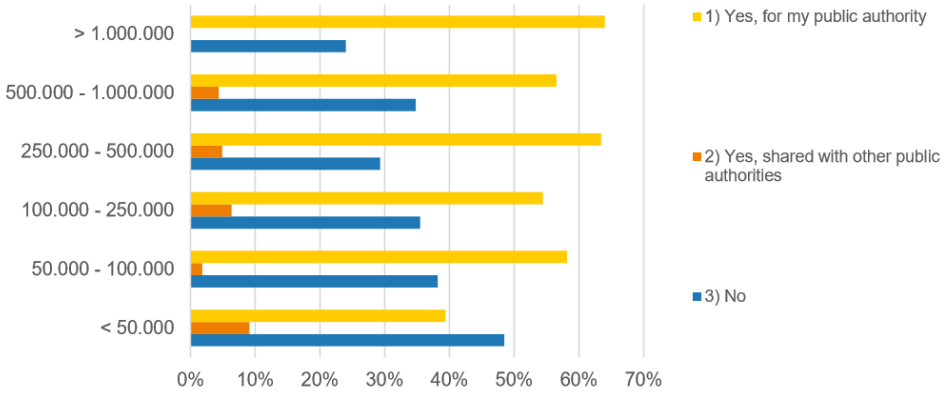
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



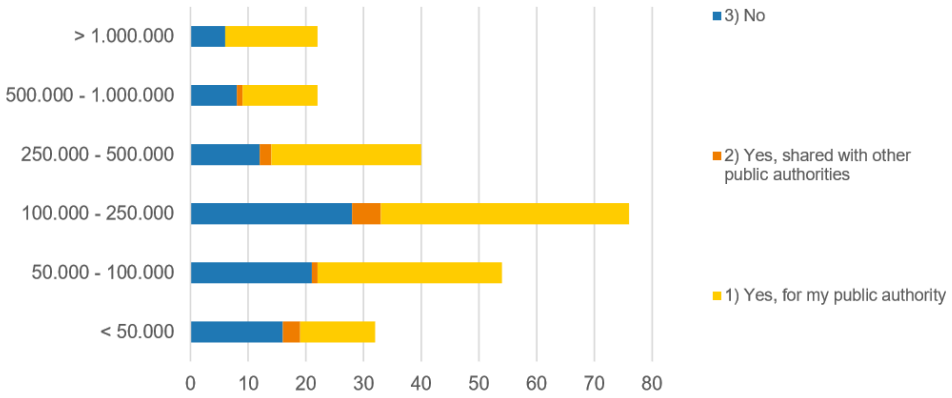
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



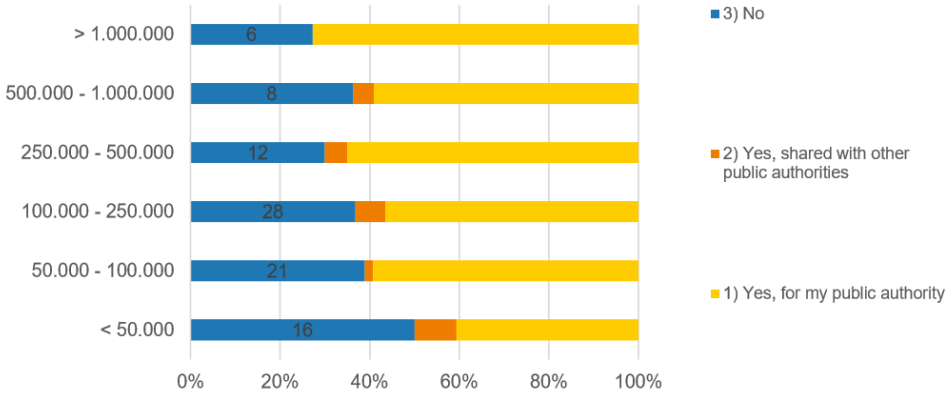
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



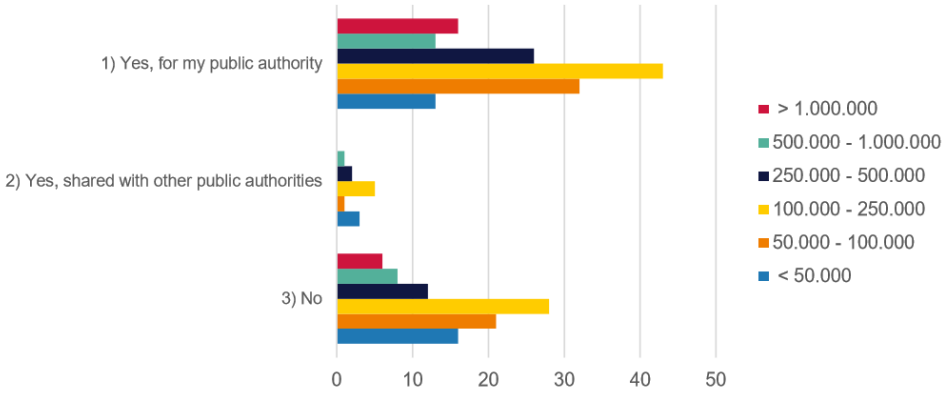
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



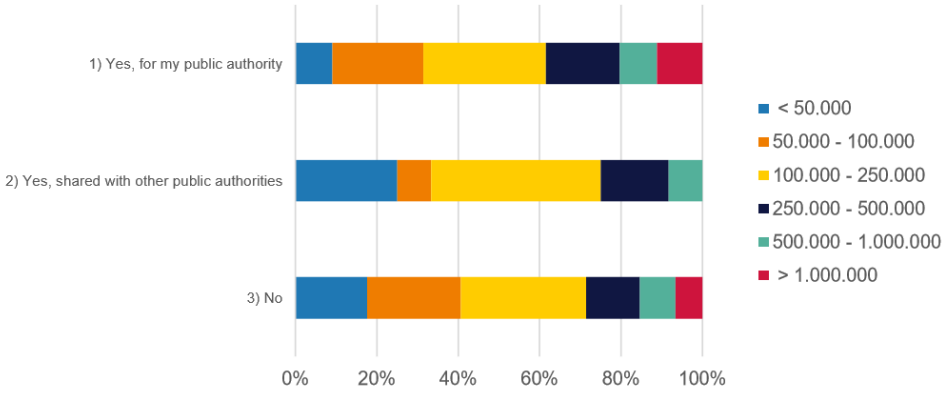
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



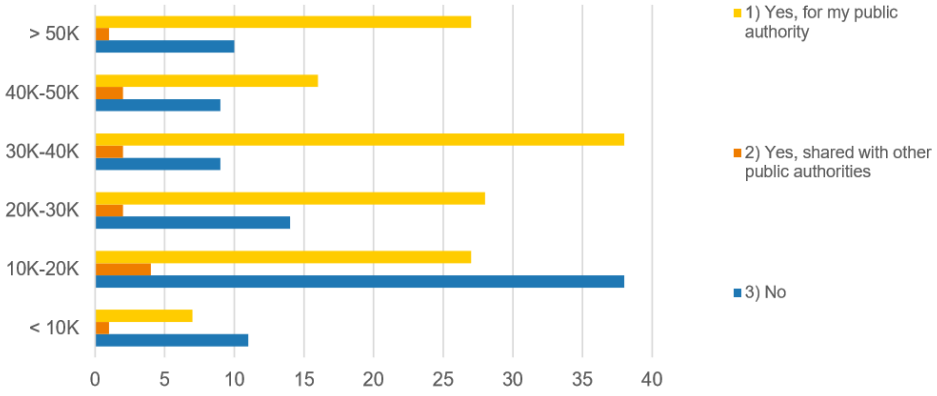
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



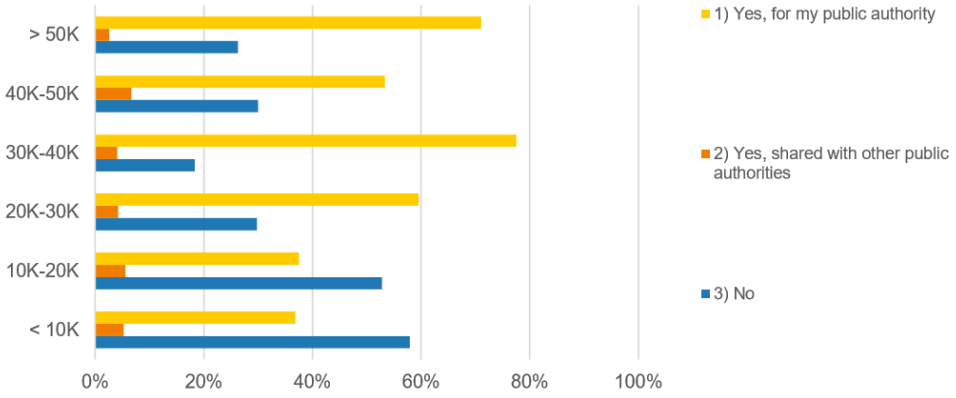
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



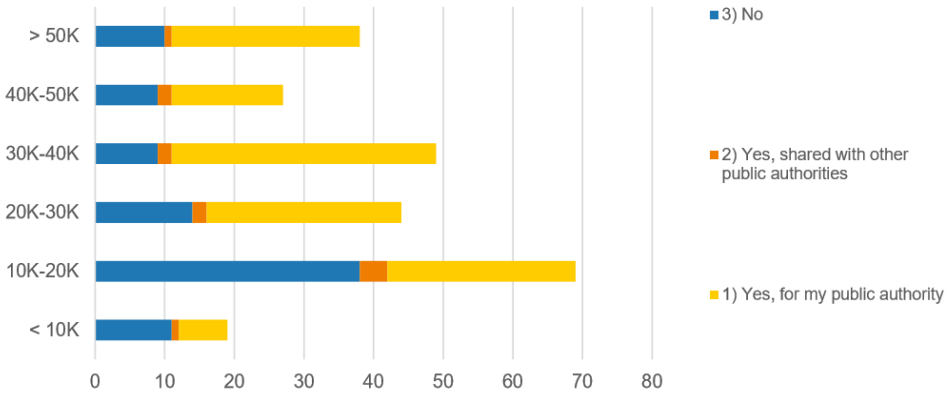
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



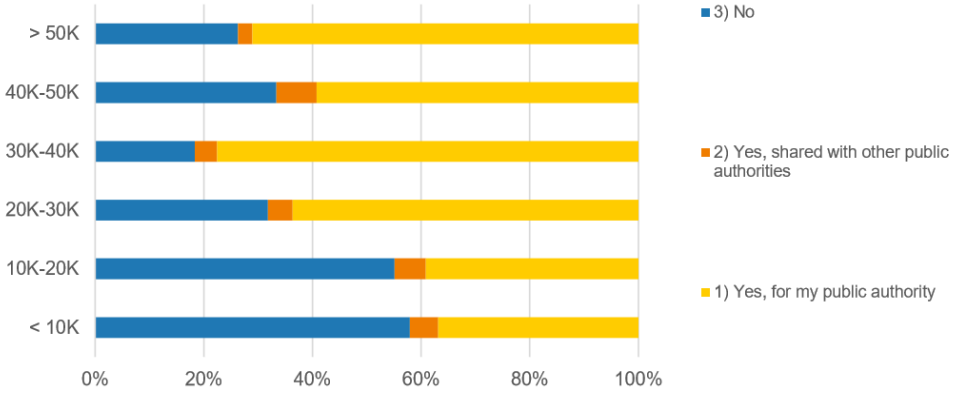
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?

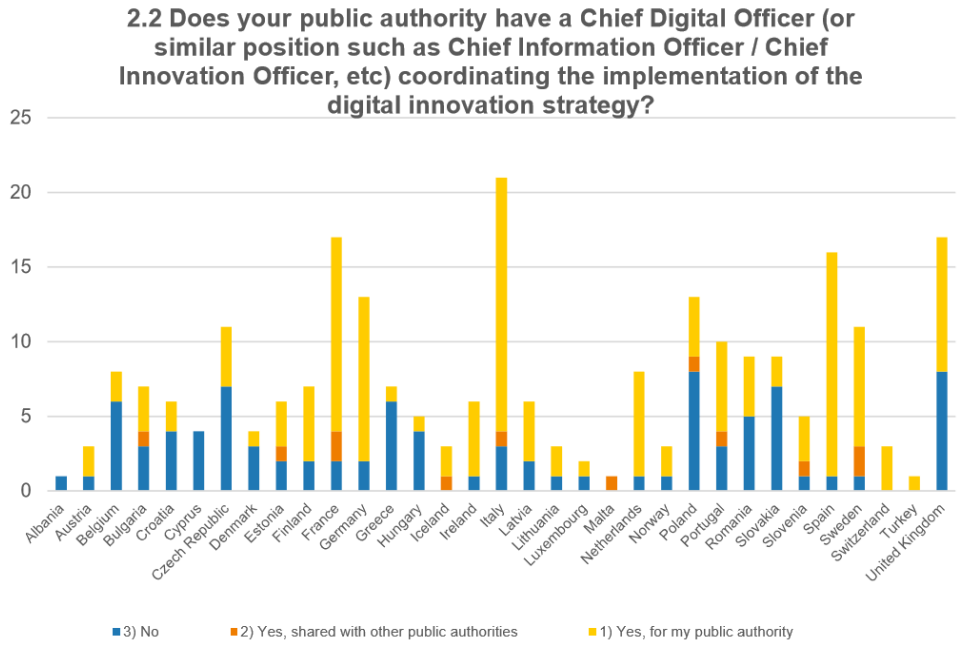


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

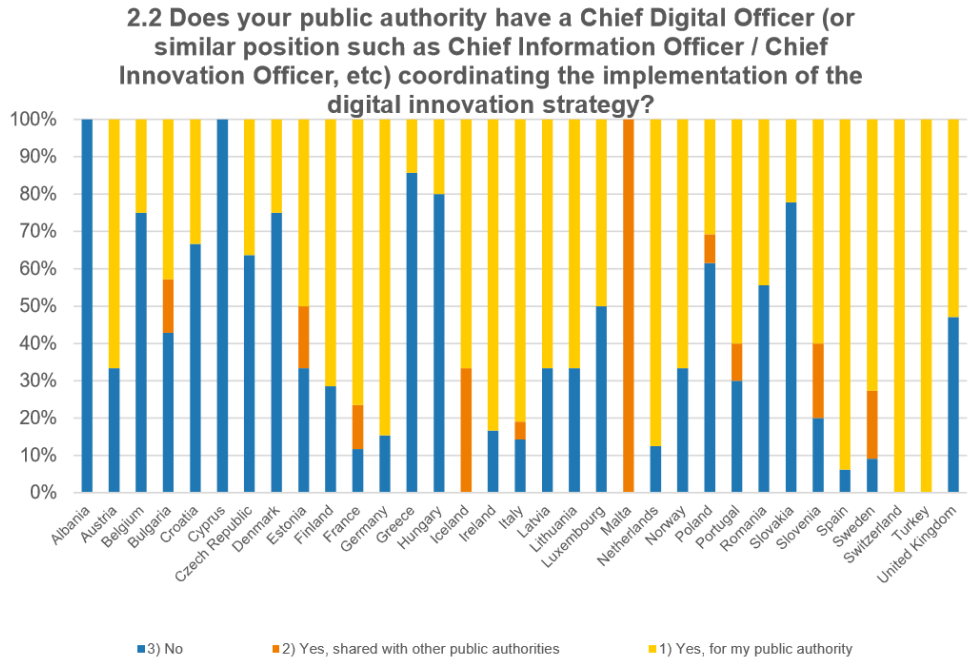
2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?

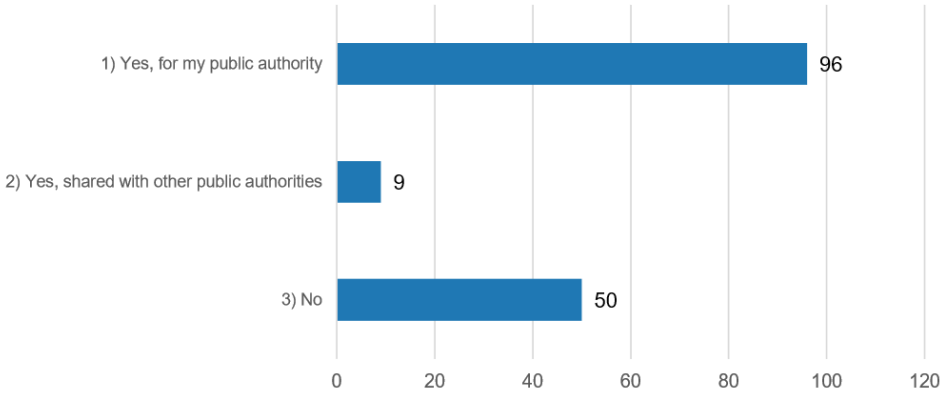
REFERENCE SAMPLE

Question type: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) Yes, for my public authority	96	62%
2) Yes, shared with other public authorities	9	6%
3) No	50	32%

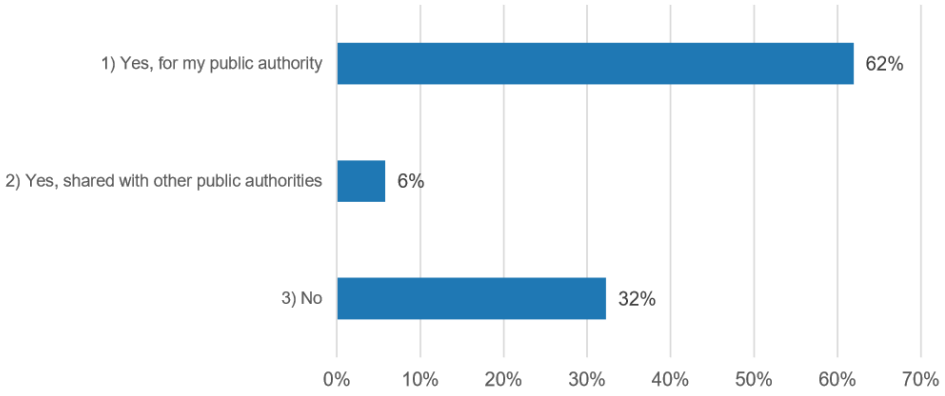
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

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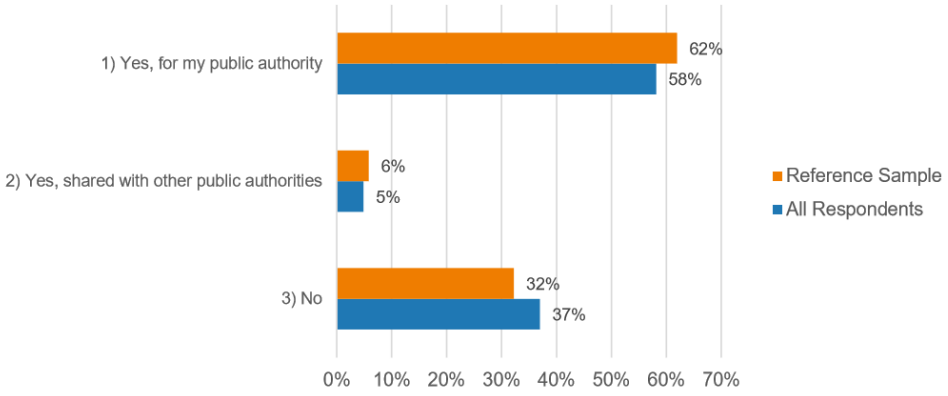

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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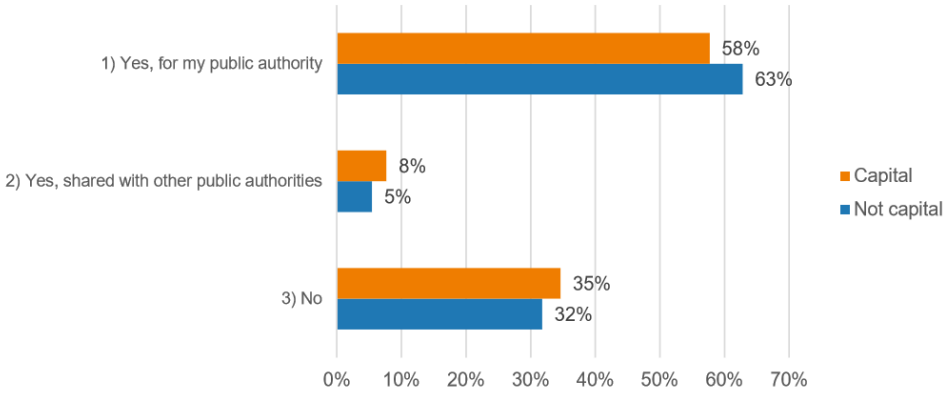
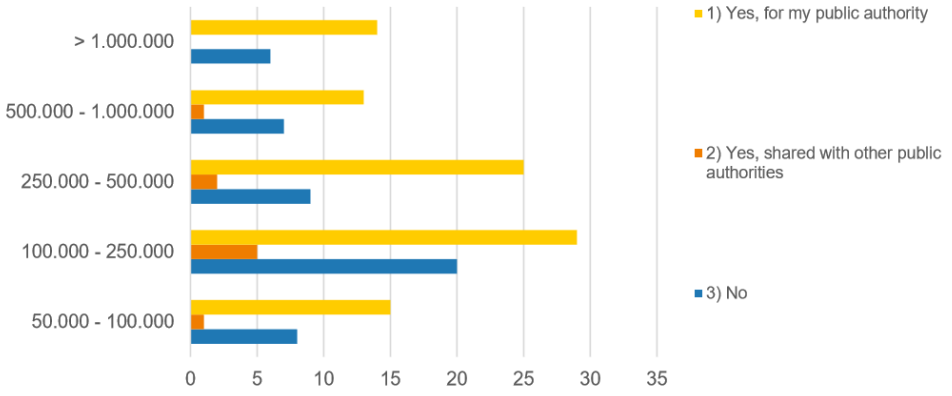


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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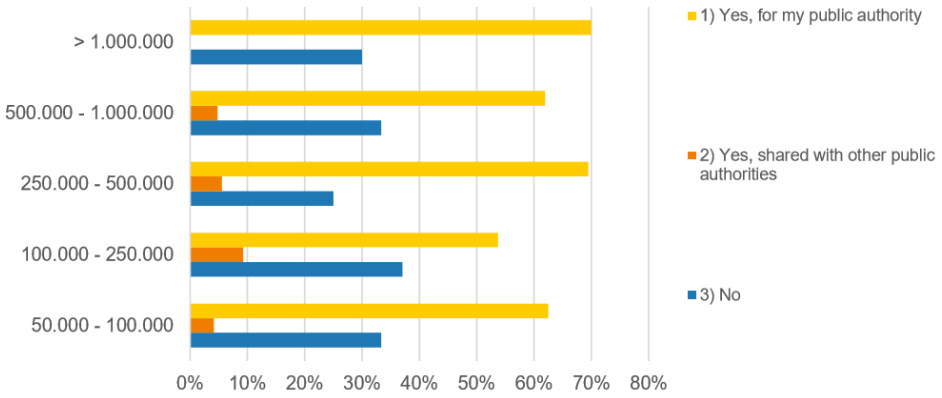

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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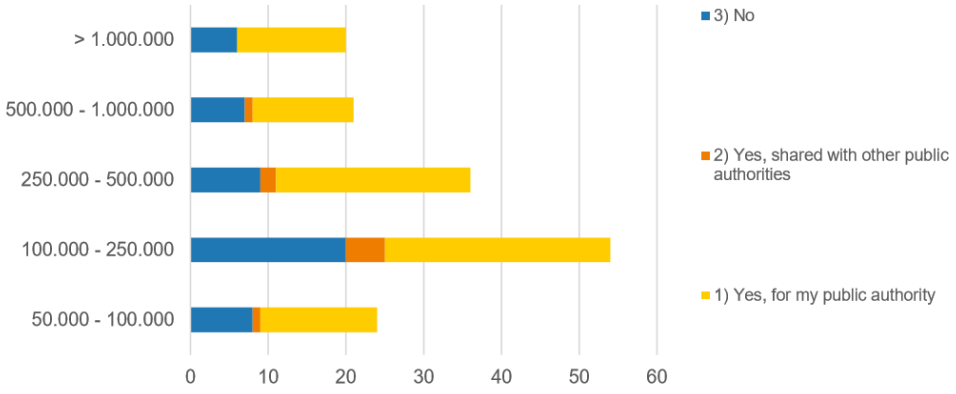

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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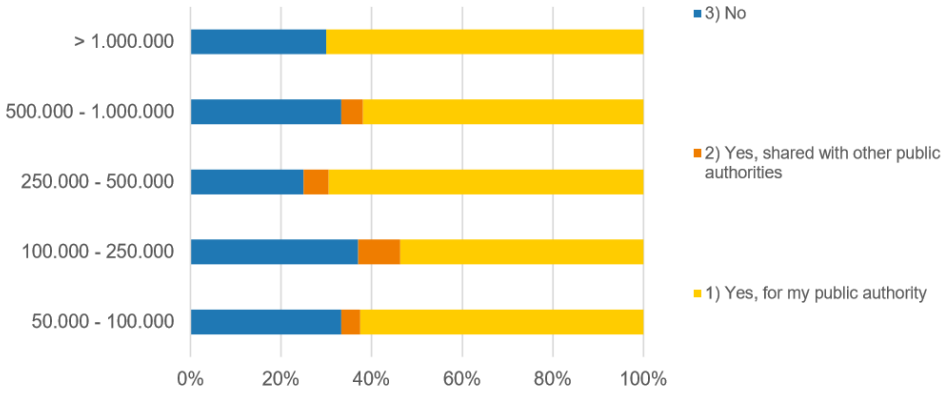

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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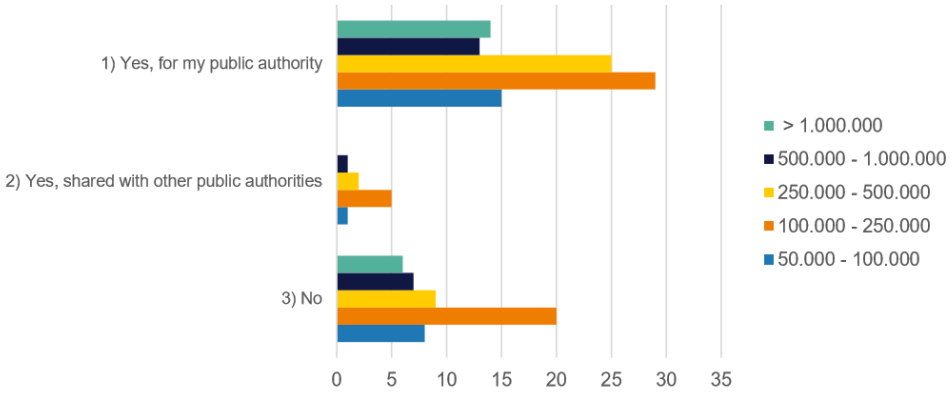
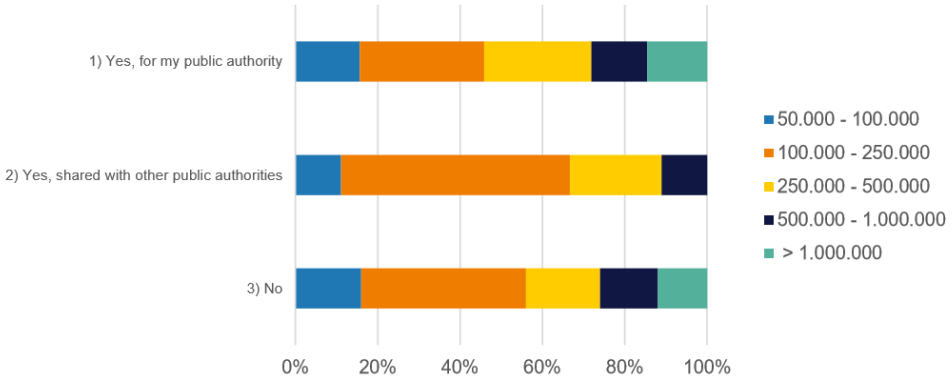


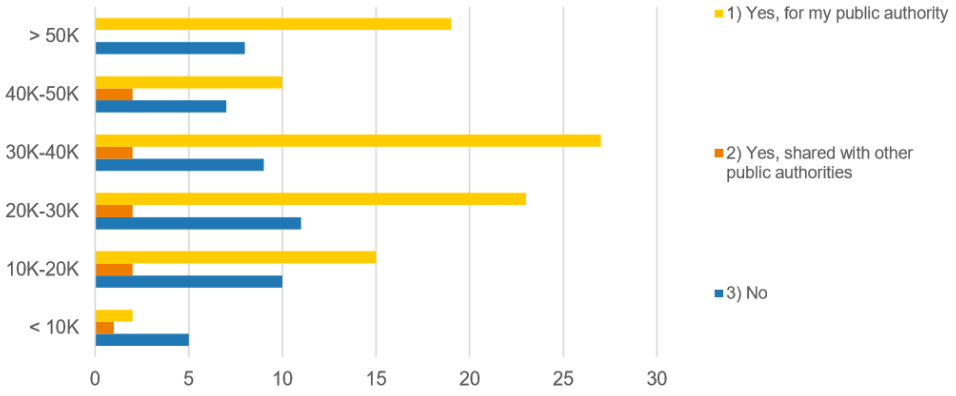
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



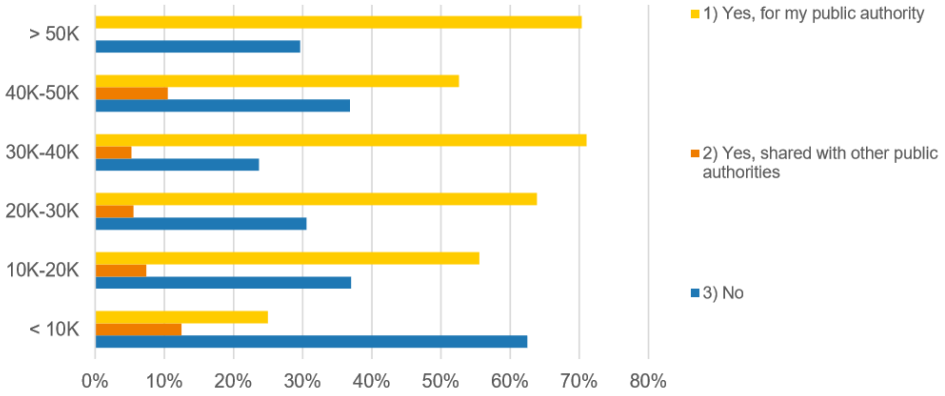
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?

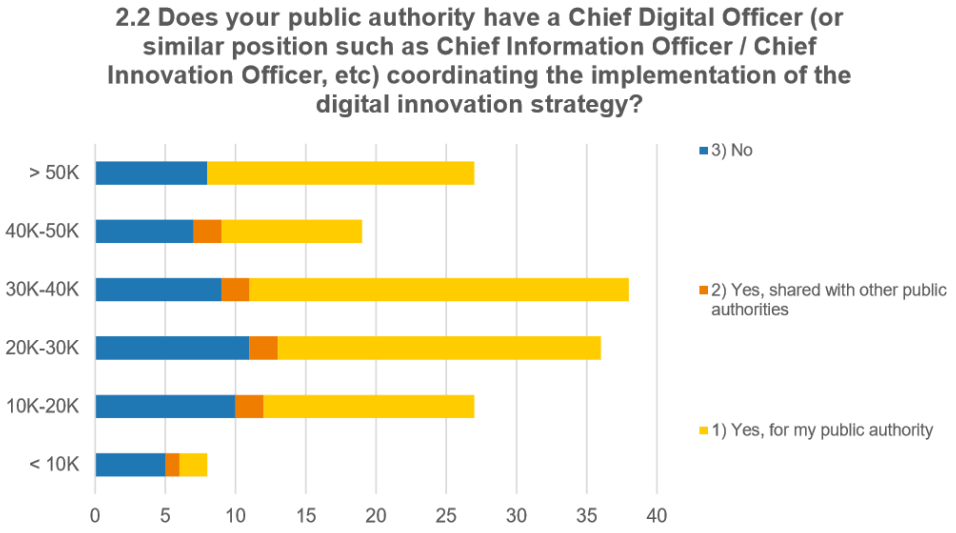


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?

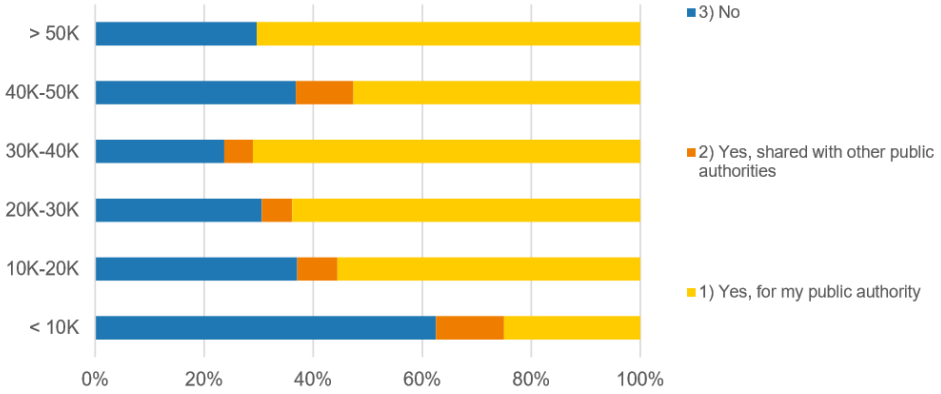


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

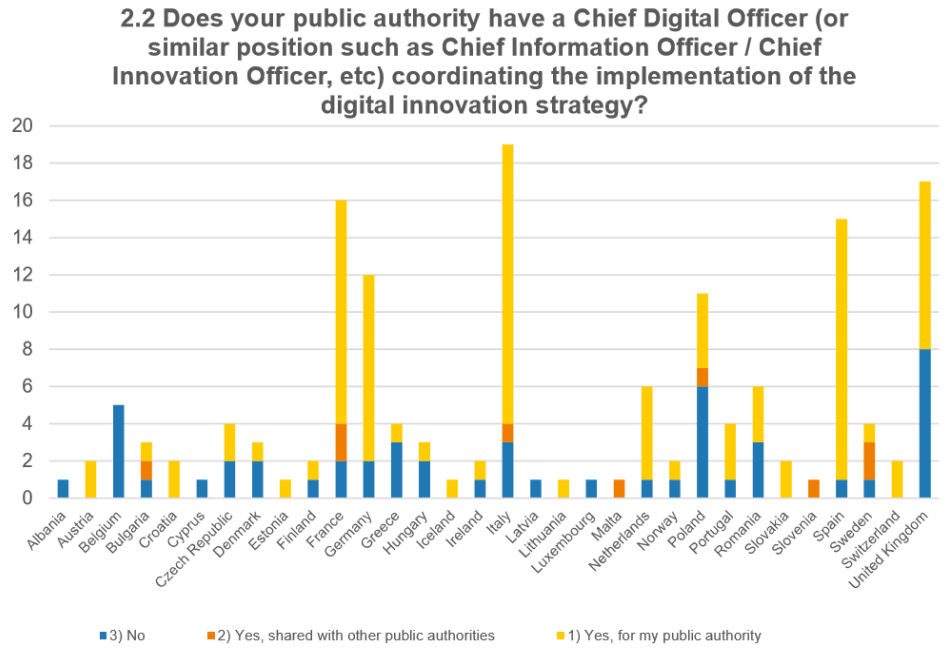


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

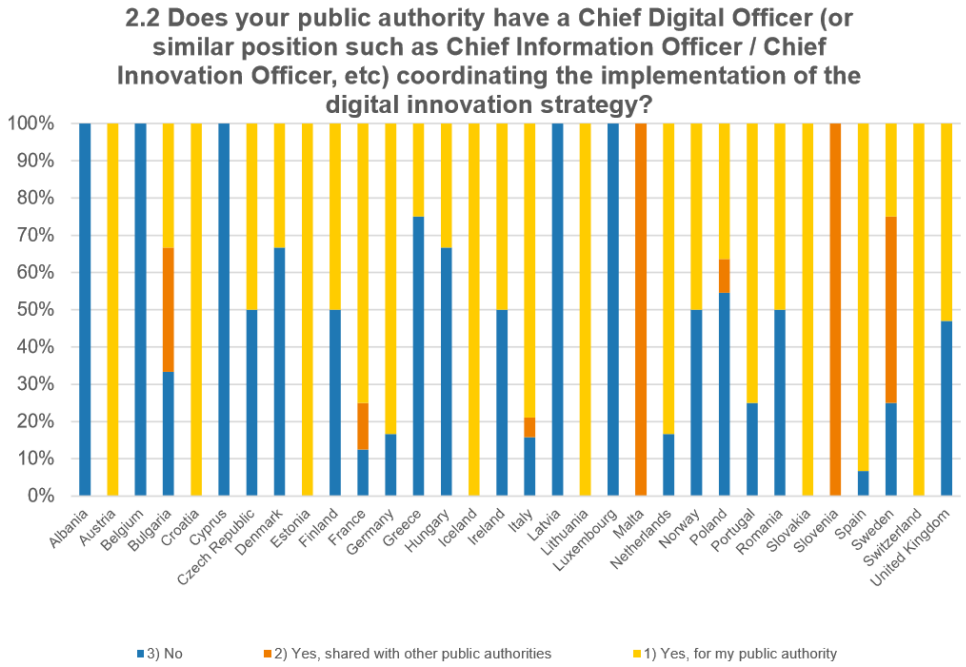
2.2 Does your public authority have a Chief Digital Officer (or similar position such as Chief Information Officer / Chief Innovation Officer, etc) coordinating the implementation of the digital innovation strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



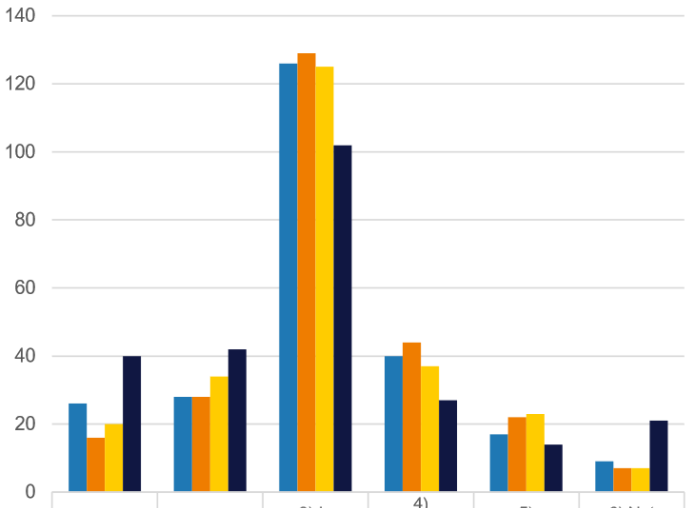
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.6 Q_2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:

ALL RESPONDENTS

Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**



	1) Identified	2) Planned	3) In Progress	4) Implemented	5) Maintaining	6) Not applicable
Redesign of the administrative processes	26	28	126	40	17	9
Simplification of bureaucratic/administrative functions	16	28	129	44	22	7
Better collaboration with other public service areas/ units	20	34	125	37	23	7
Better collaboration among non-public service areas/ units	40	42	102	27	14	21

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:

ALL RESPONDENTS

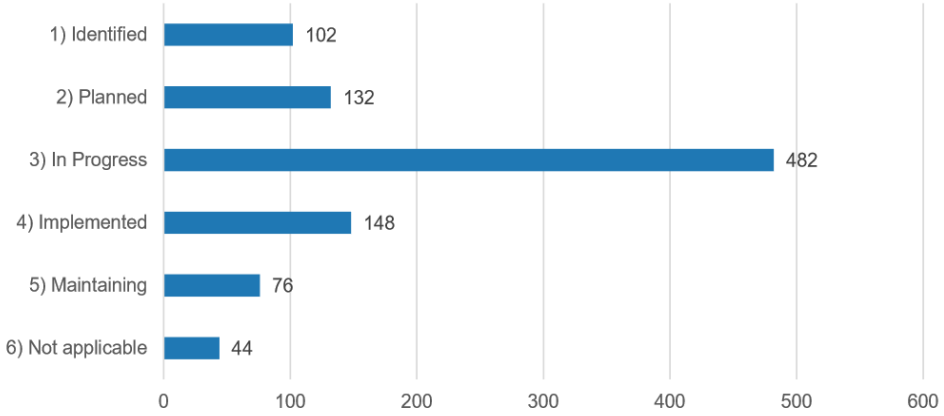
Question typology:	***Matrix - Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Identified	102	10%
2) Planned	132	13%
3) In Progress	482	49%
4) Implemented	148	15%
5) Maintaining	76	8%
6) Not applicable	44	4%

* The Count is given by the sum of all the selected rows within the same matrix column

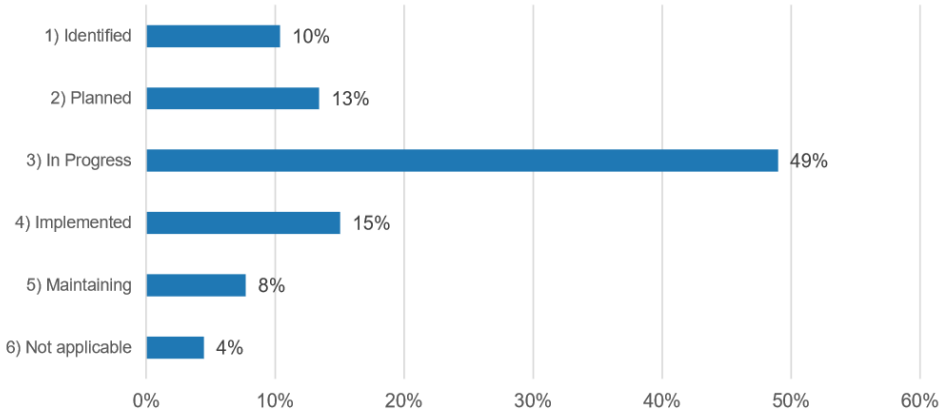
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



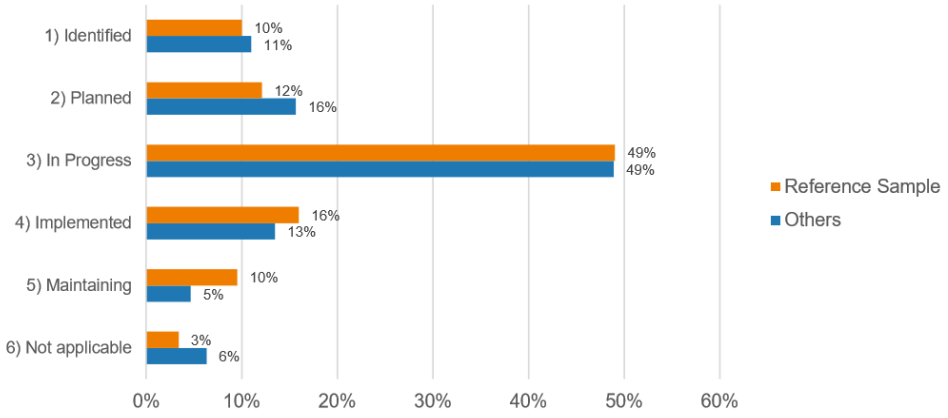
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	-	Count

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



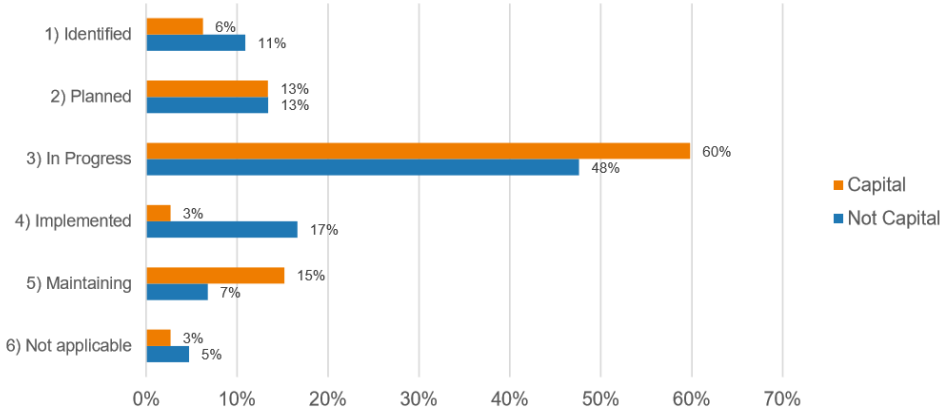
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	-	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



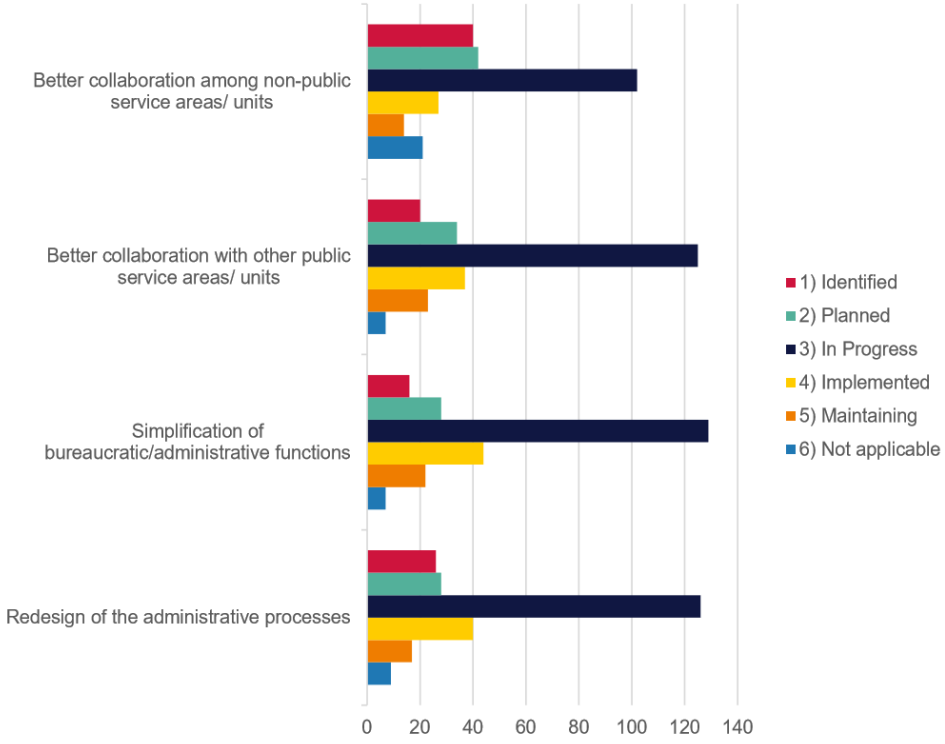
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Reference Sample	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



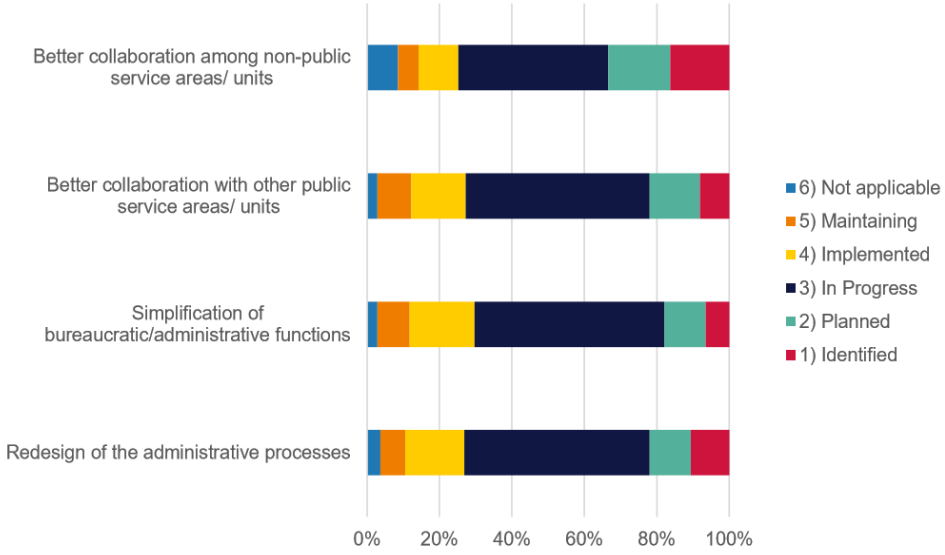
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Capital cities	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



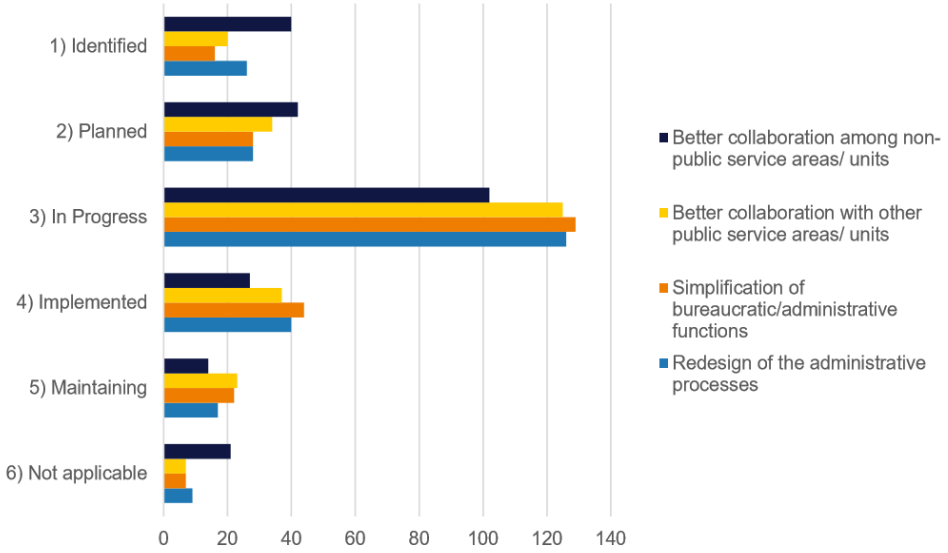
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Count

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:

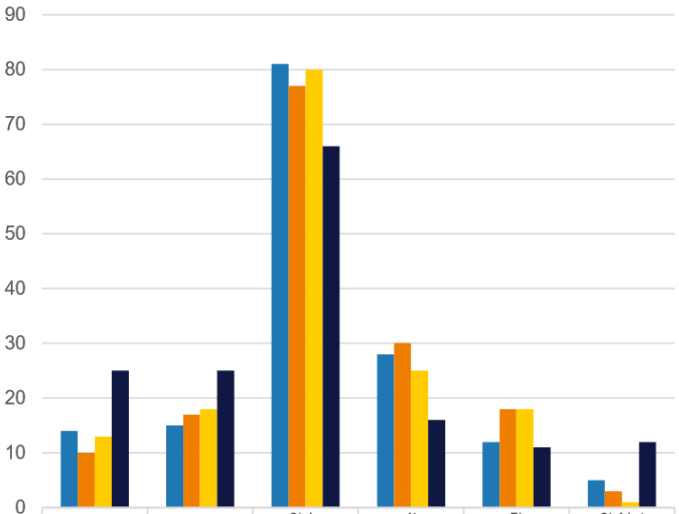


Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Count

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:

REFERENCE SAMPLE

Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**



	1) Identified	2) Planned	3) In Progress	4) Implemented	5) Maintaining	6) Not applicable
Redesign of the administrative processes	14	15	81	28	12	5
Simplification of bureaucratic/administrative functions	10	17	77	30	18	3
Better collaboration with other public service areas/ units	13	18	80	25	18	1
Better collaboration among non-public service areas/ units	25	25	66	16	11	12

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:

REFERENCE SAMPLE

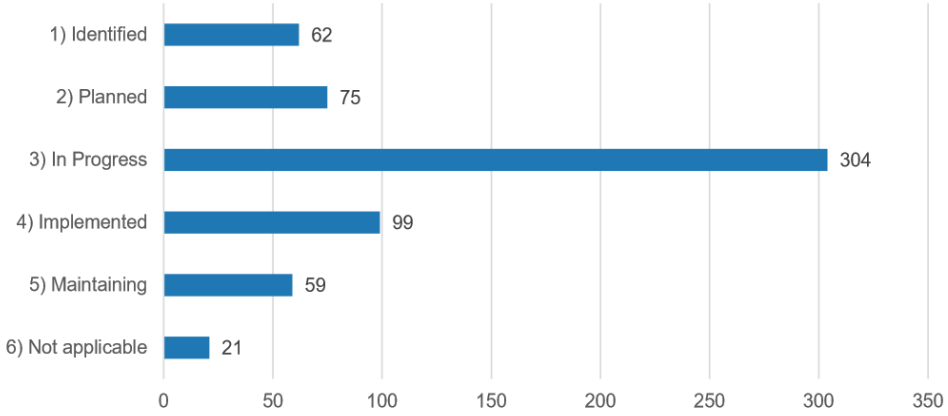
Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Identified	62	10%
2) Planned	75	12%
3) In Progress	304	49%
4) Implemented	99	16%
5) Maintaining	59	10%
6) Not applicable	21	3%

* The Count is given by the sum of all the selected rows within the same matrix column

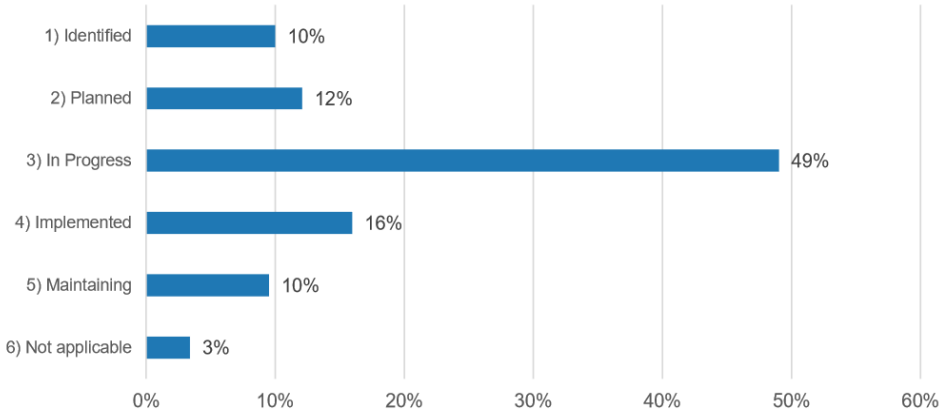
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



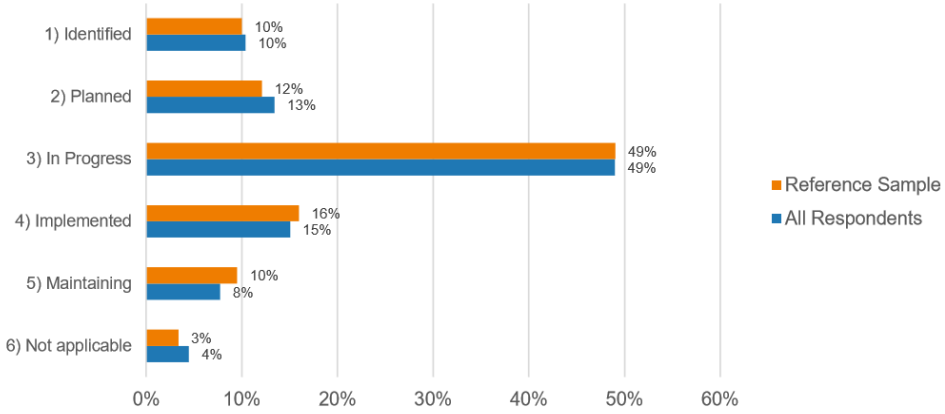
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	-	Count

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



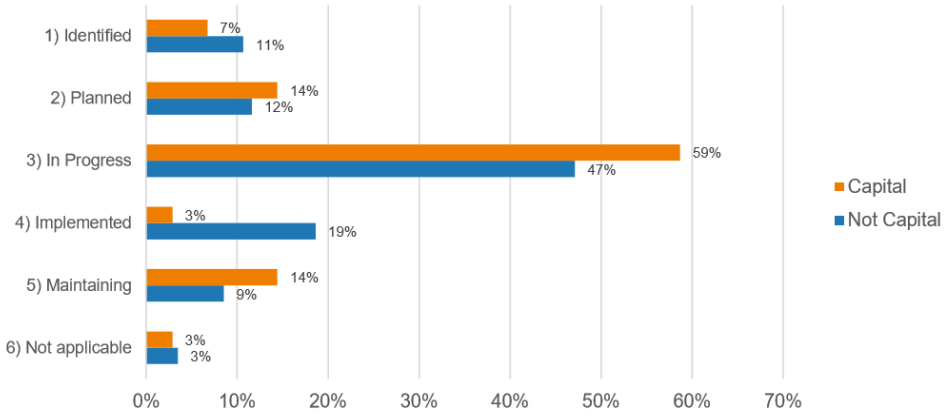
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	-	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



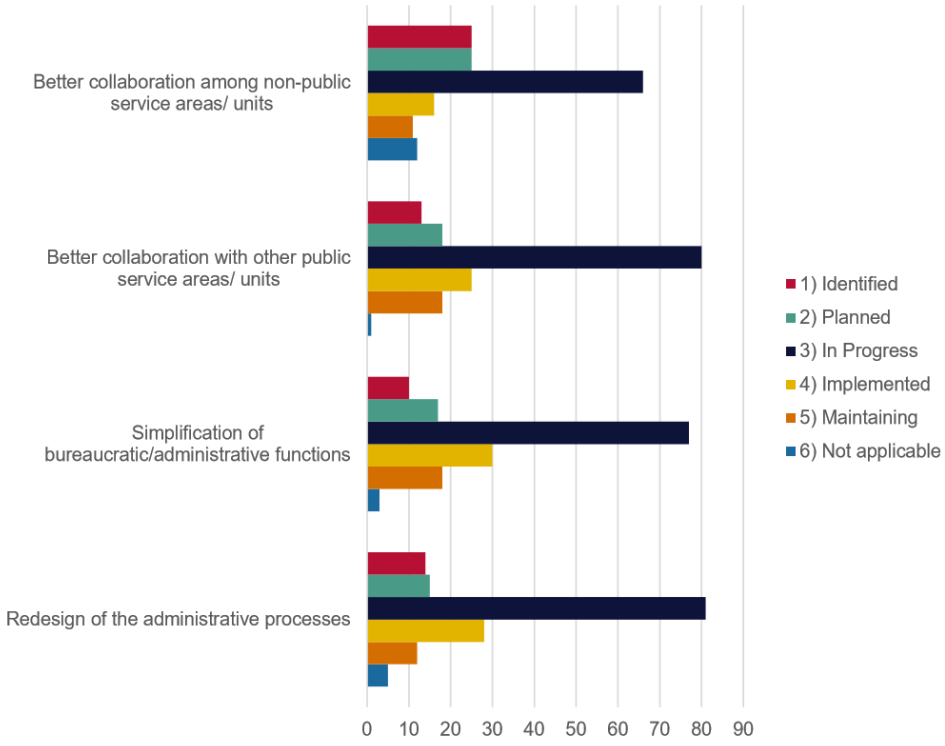
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Reference Sample	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



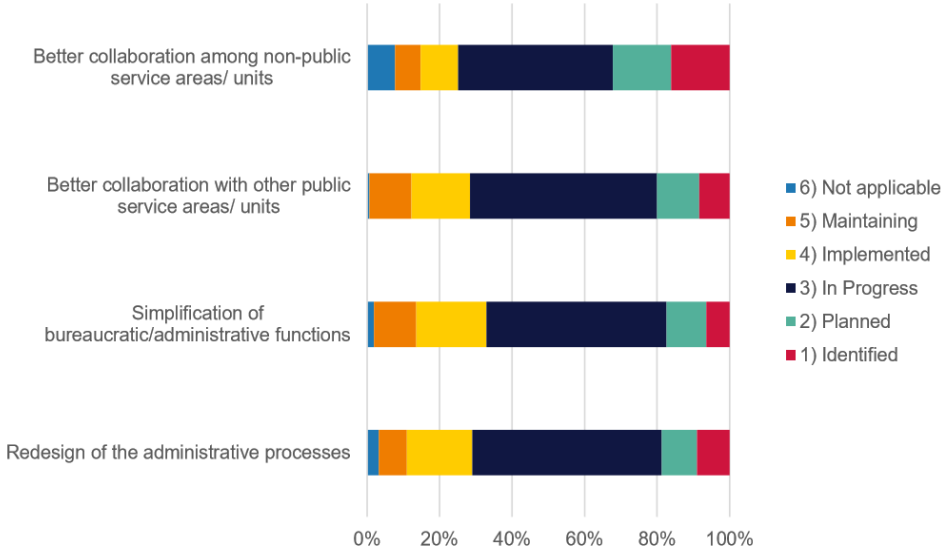
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Capital cities	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



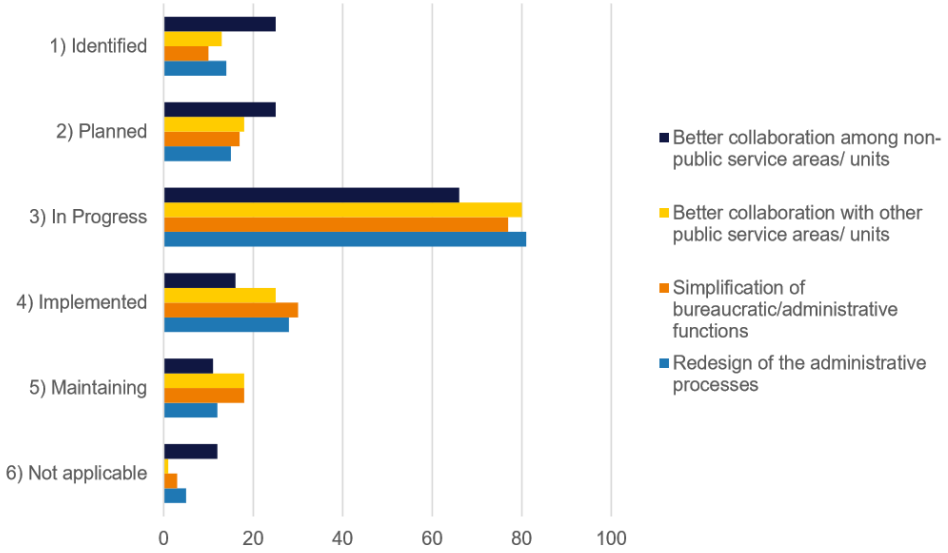
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Count

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Percentage

2.3 Please select the option that best represents the organisational and administrative changes enabled by digital innovation in your public authority:



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Count

3.7 Q_2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?

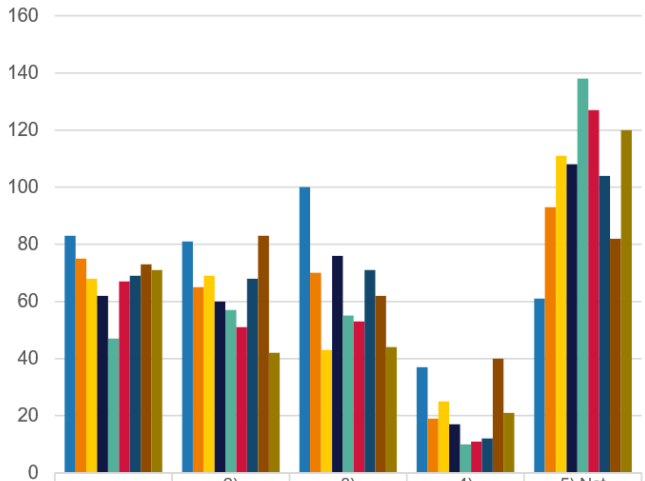
2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?

ALL RESPONDENTS

Question typology: ***Matrix - Multiple choice***

Number of analysed questionnaires: **246**

Number of cities respond to this specific question: **246 (100%)**



	1) Local	2) Regional	3) National	4) International	5) Not Applicable
General Services / Administration	83	81	100	37	61
Building & Spatial Planning	75	65	70	19	93
Culture & Leisure	68	69	43	25	111
Education	62	60	76	17	108
Healthcare	47	57	55	10	138
Order & Safety	67	51	53	11	127
Social & Welfare Services	69	68	71	12	104
Transport & Mobility	73	83	62	40	82
Utilities	71	42	44	21	120

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?

ALL RESPONDENTS

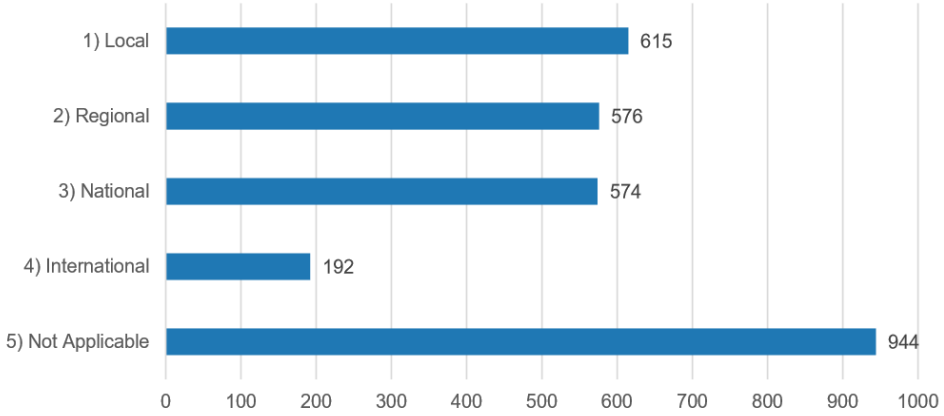
Question typology: ***Matrix - Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Local	615	28%
2) Regional	576	26%
3) National	574	26%
4) International	192	9%
5) Not Applicable	944	43%

* The Count is given by the sum of all the selected rows within the same matrix column

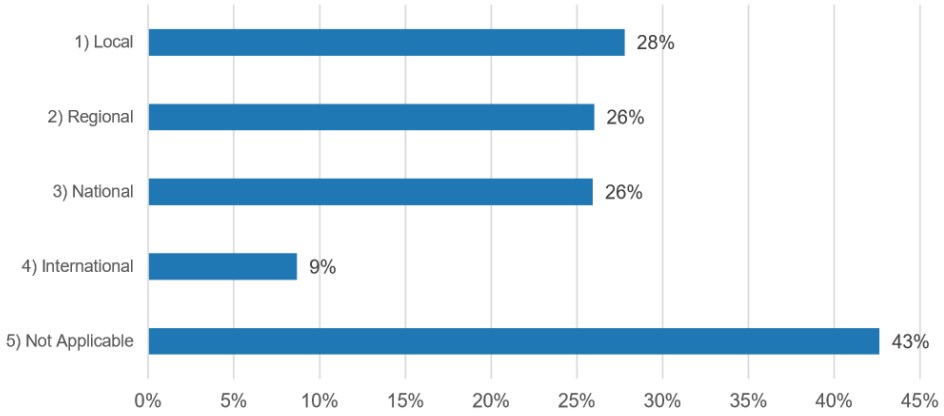
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



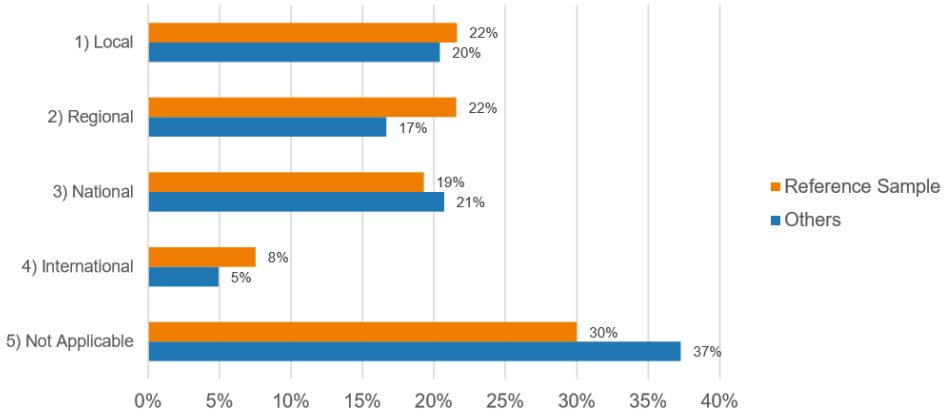
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	-	Count

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



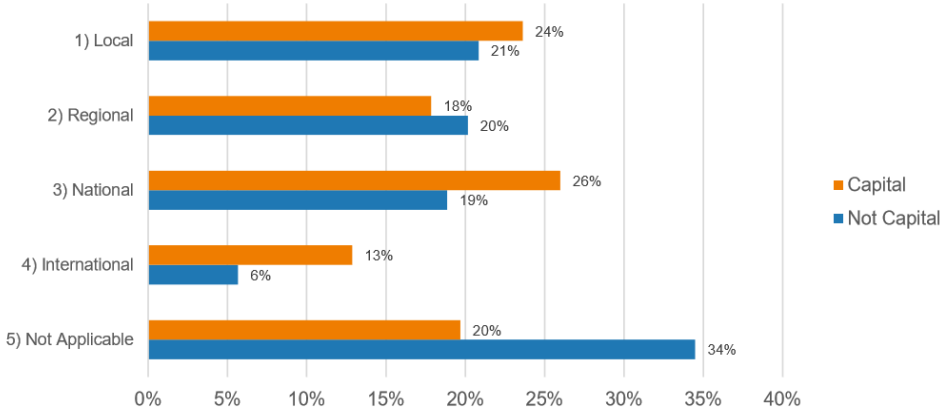
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	-	Percentage

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Reference Sample	Percentage

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Capital cities	Percentage

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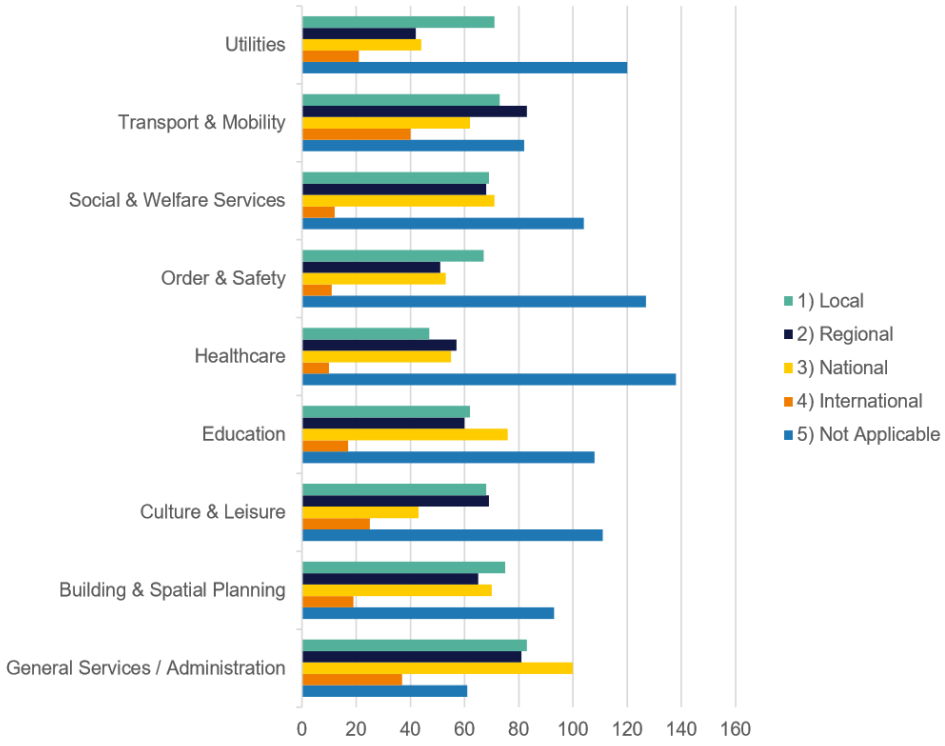

Question typology	Data	Cluster	Value
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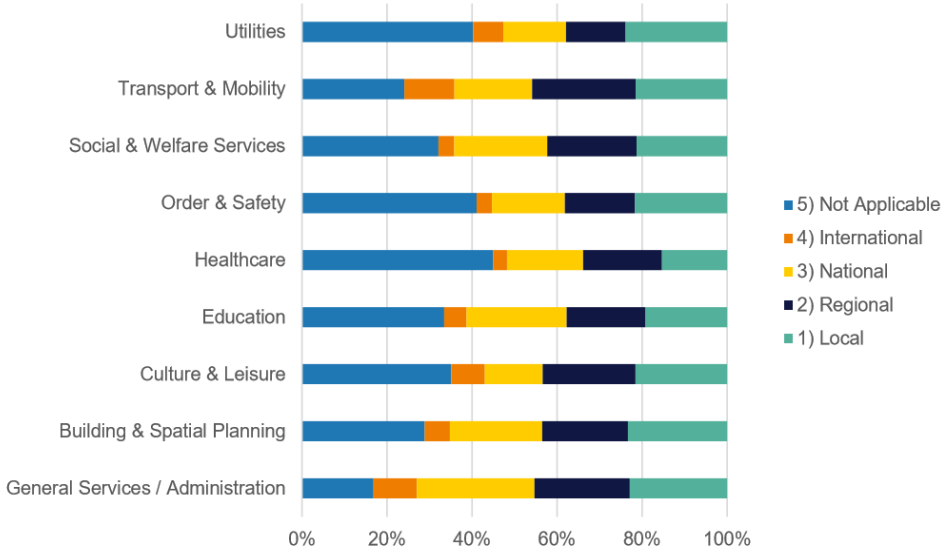

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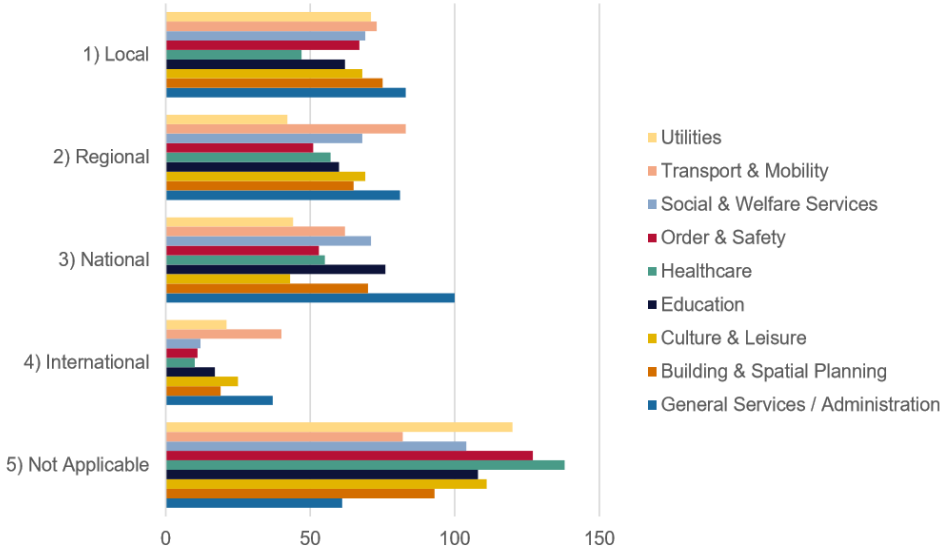


Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Count

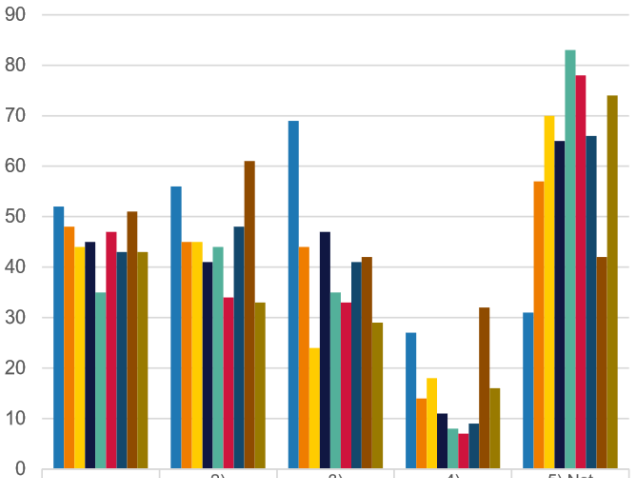
2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?

REFERENCE SAMPLE

Question typology: ***Matrix - Multiple choice***

Number of analysed questionnaires: **155**

Number of cities respond to this specific question: **155 (100%)**



	1) Local	2) Regional	3) National	4) International	5) Not Applicable
General Services / Administration	52	56	69	27	31
Building & Spatial Planning	48	45	44	14	57
Culture & Leisure	44	45	24	18	70
Education	45	41	47	11	65
Healthcare	35	44	35	8	83
Order & Safety	47	34	33	7	78
Social & Welfare Services	43	48	41	9	66
Transport & Mobility	51	61	42	32	42
Utilities	43	33	29	16	74

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?

REFERENCE SAMPLE

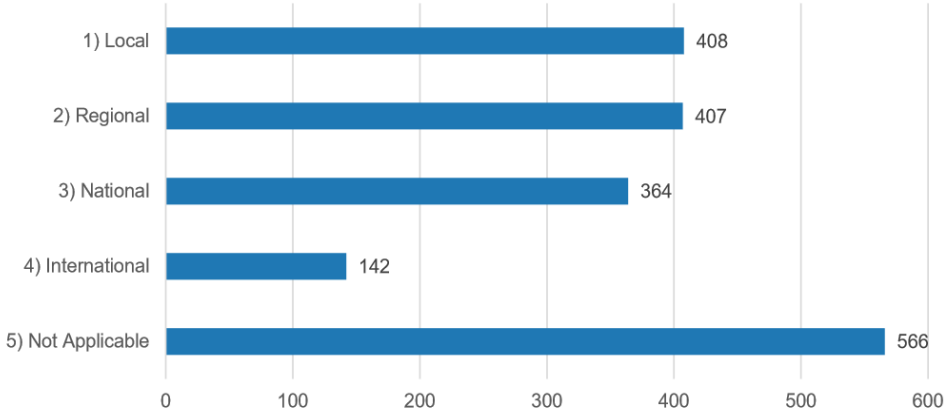
Question typology:	***Matrix - Multiple choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Local	408	29%
2) Regional	407	29%
3) National	364	26%
4) International	142	10%
5) Not Applicable	566	41%

* The Count is given by the sum of all the selected rows within the same matrix column

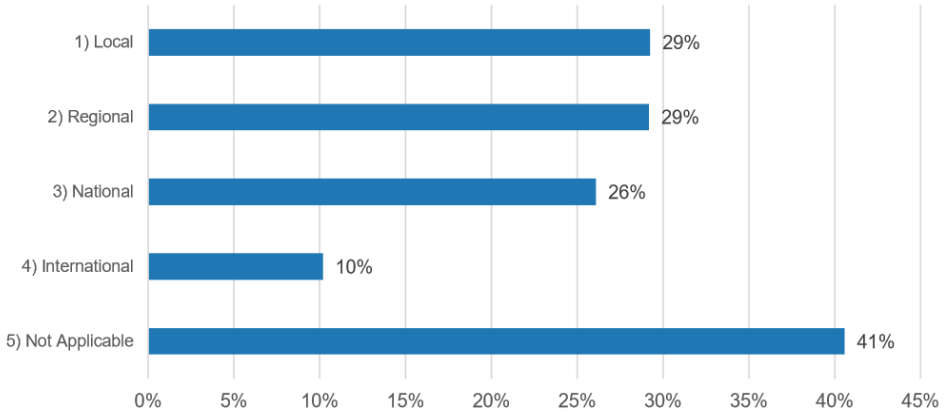
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



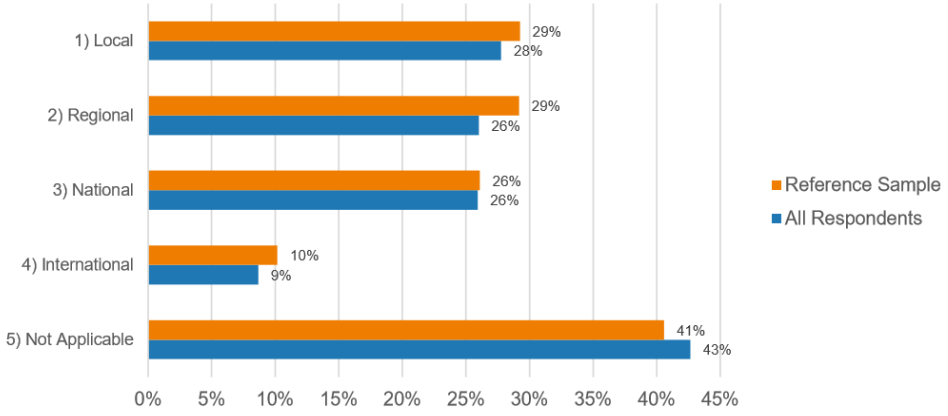
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	-	Count

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



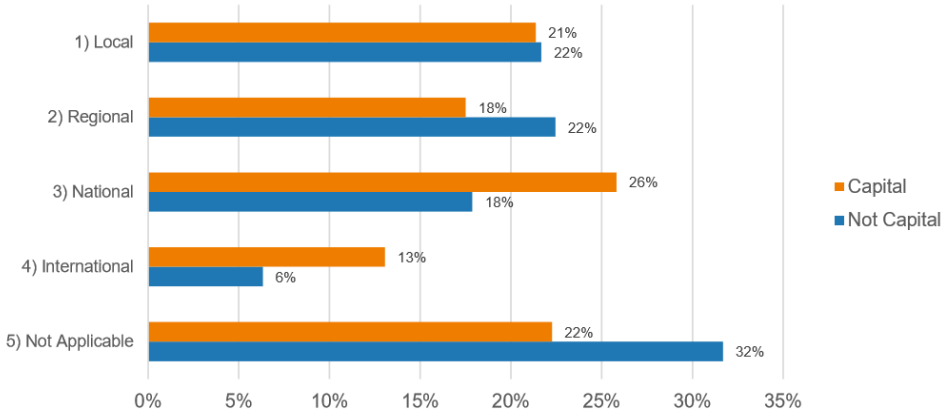
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	-	Percentage

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



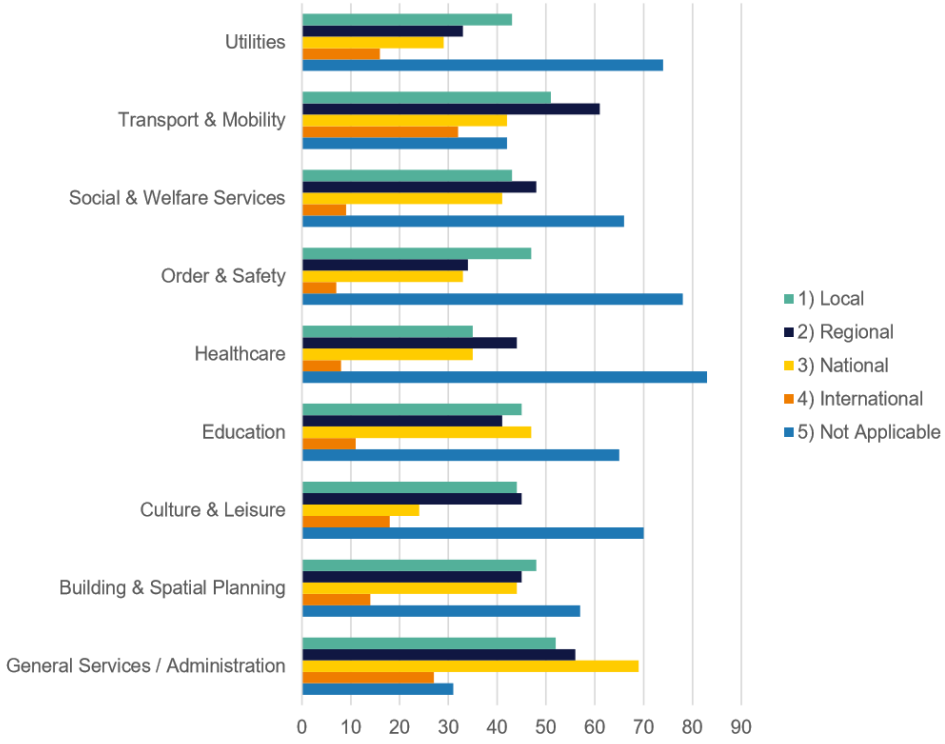
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Reference Sample	Percentage

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



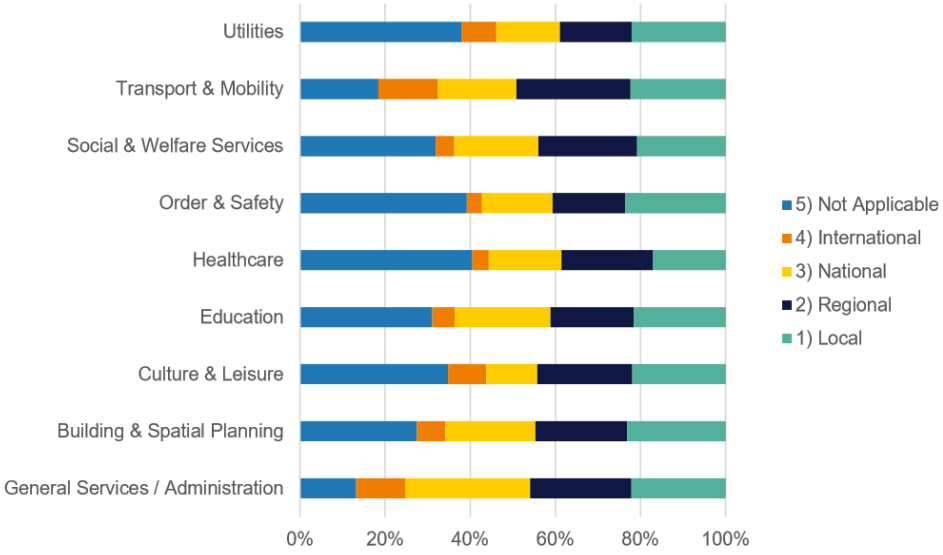
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Capital cities	Percentage

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



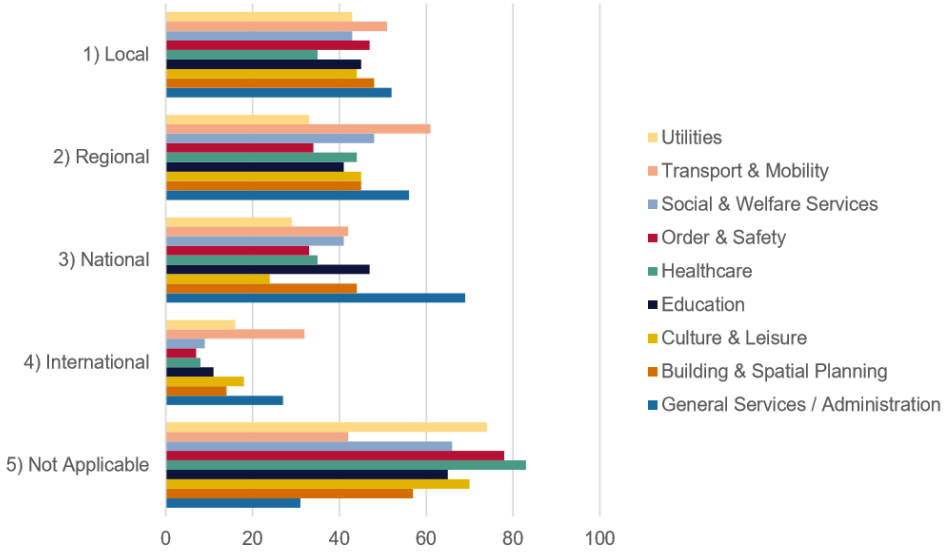
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Count

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Percentage

2.4 Is your public authority part of a (local, regional, national, EU) network of cities sharing operational digital solutions or open source code?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Count

3.8 Q_2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?

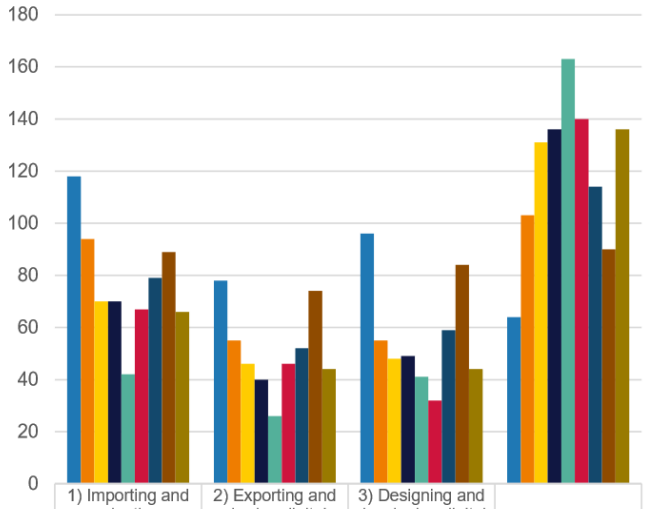
2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?

ALL RESPONDENTS

Question typology: ***Matrix - Multiple choice***

Number of analysed questionnaires: **246**

Number of cities respond to this specific question: **246 (100%)**



	1) Importing and adopting solutions developed by other public authorities	2) Exporting and sharing digital solutions developed to other public authorities	3) Designing and developing digital solutions in cooperation with other public authorities	4) Not Applicable
General Services / Administration	118	78	96	64
Building & Spatial Planning	94	55	55	103
Culture & Leisure	70	46	48	131
Education	70	40	49	136
Healthcare	42	26	41	163
Order & Safety	67	46	32	140
Social & Welfare Services	79	52	59	114
Transport & Mobility	89	74	84	90
Utilities	66	44	44	136

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?

ALL RESPONDENTS

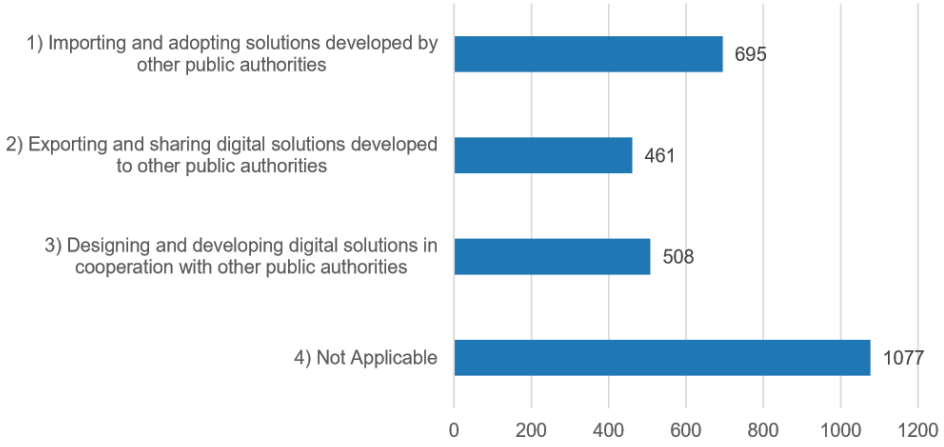
Question typology:	***Matrix - Multiple choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Importing and adopting solutions developed by other public authorities	695	28%
2) Exporting and sharing digital solutions developed to other public authorities	461	19%
3) Designing and developing digital solutions in cooperation with other public authorities	508	21%
4) Not Applicable	1.077	44%

* The Count is given by the sum of all the selected rows within the same matrix column

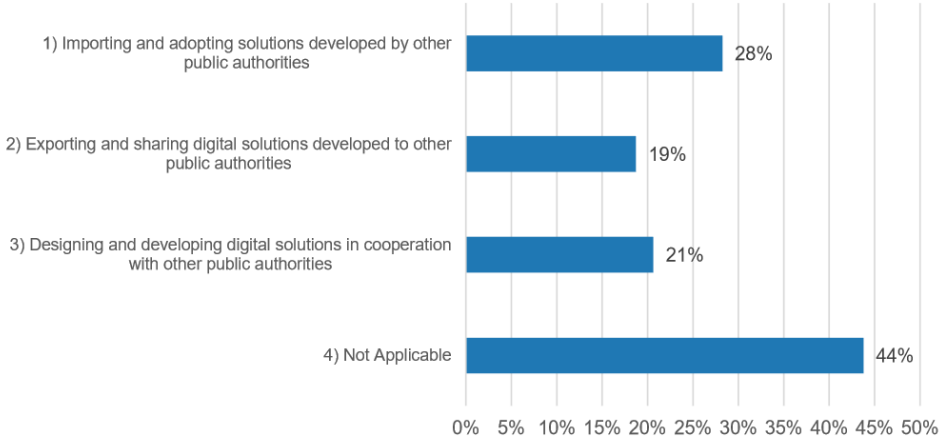
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



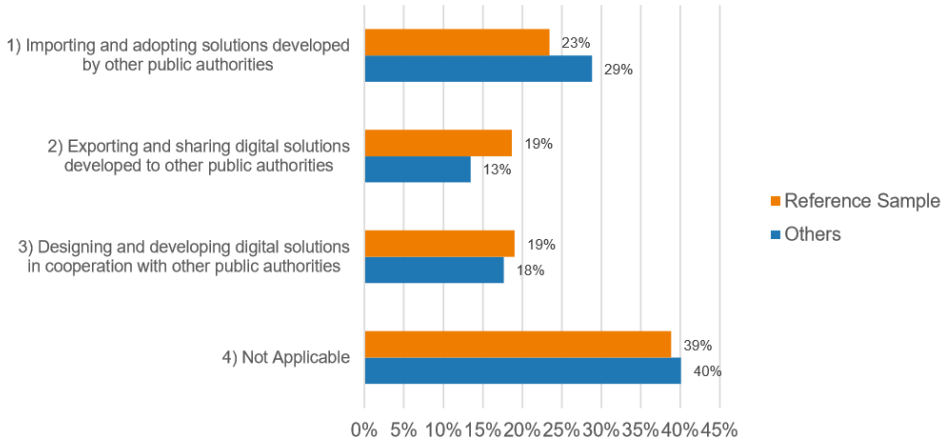
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	-	Count

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



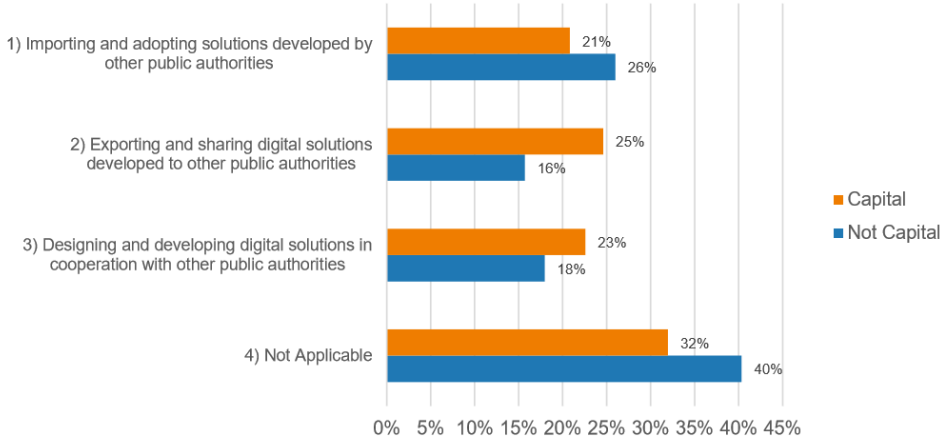
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	-	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



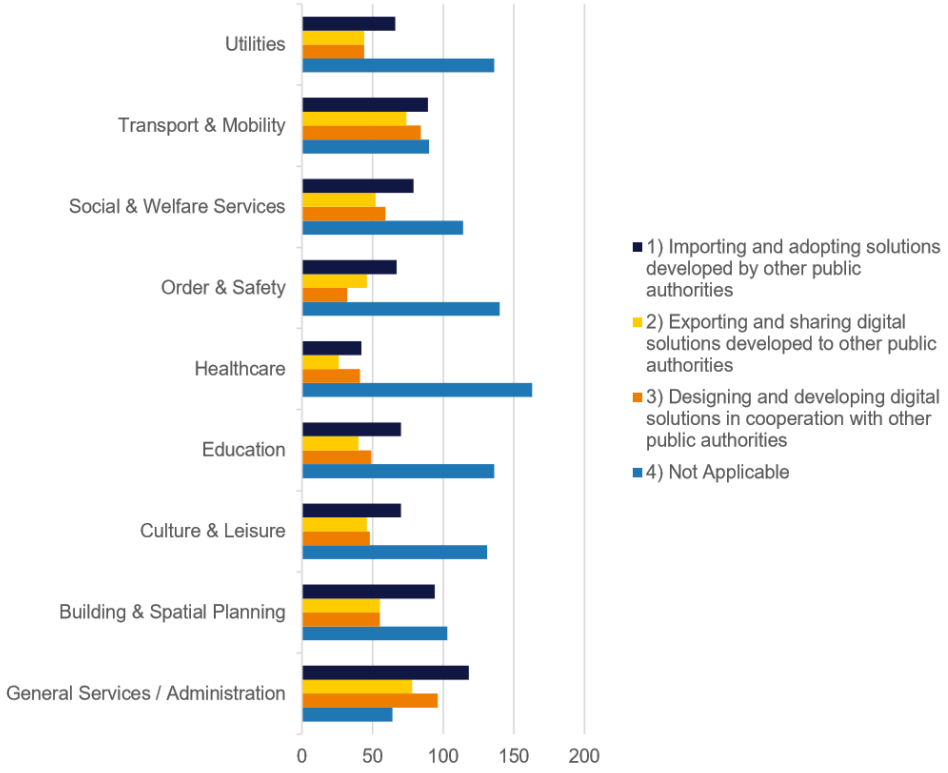
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Reference Sample	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



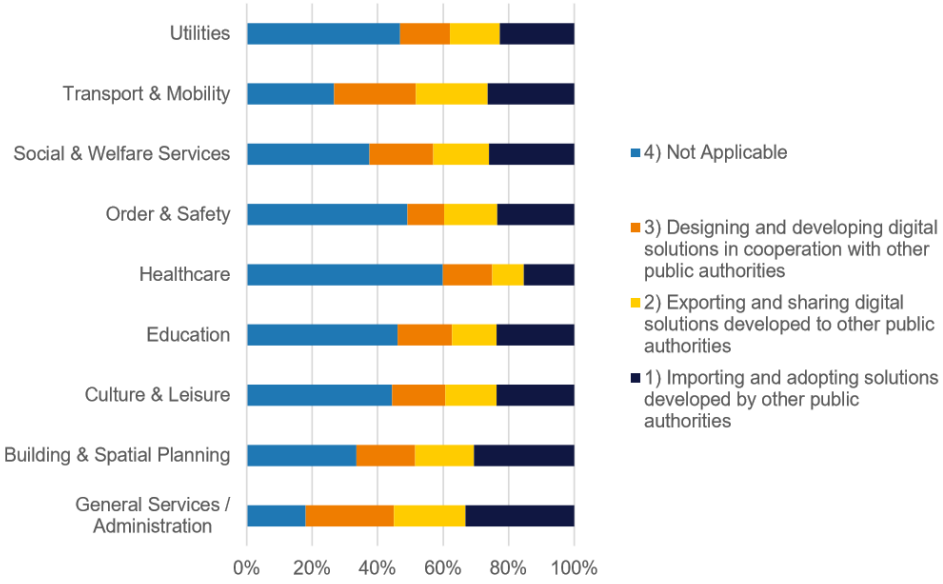
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Capital cities	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



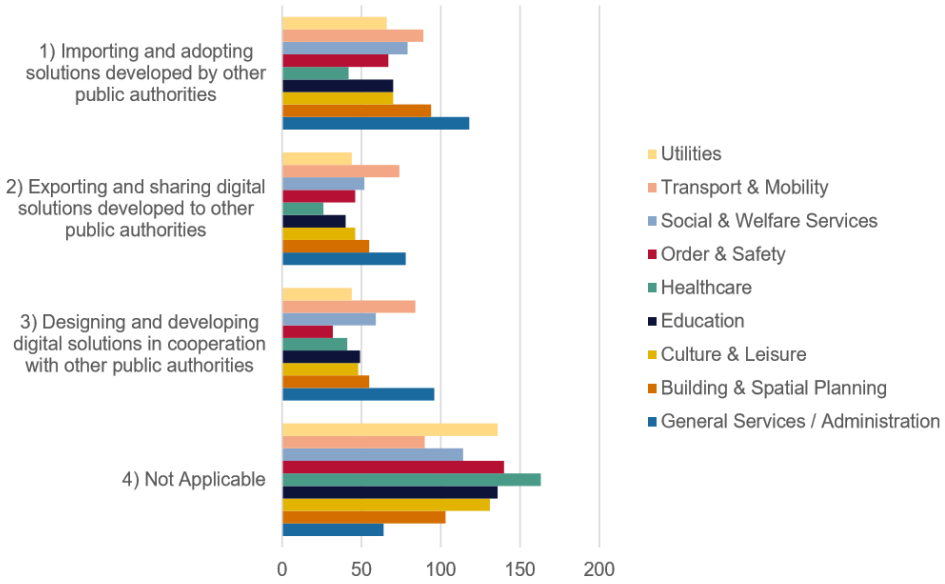
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Count

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Count

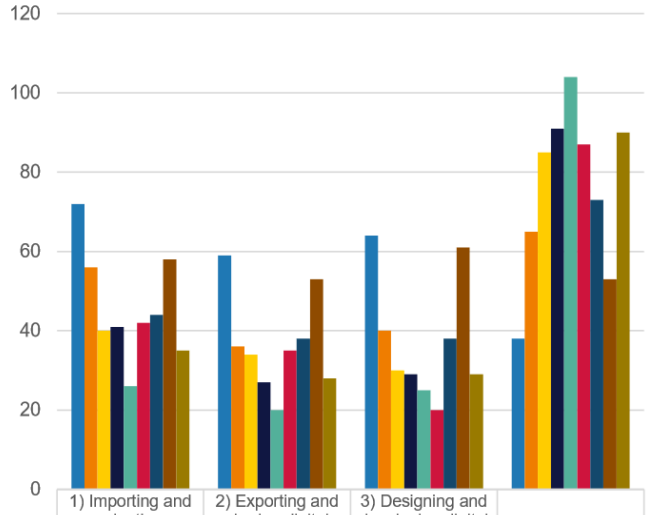
2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?

REFERENCE SAMPLE

Question typology: ***Matrix - Multiple choice***

Number of analysed questionnaires: **155**

Number of cities respond to this specific question: **155 (100%)**



	1) Importing and adopting solutions developed by other public authorities	2) Exporting and sharing digital solutions developed to other public authorities	3) Designing and developing digital solutions in cooperation with other public authorities	4) Not Applicable
General Services / Administration	72	59	64	38
Building & Spatial Planning	56	36	40	65
Culture & Leisure	40	34	30	85
Education	41	27	29	91
Healthcare	26	20	25	104
Order & Safety	42	35	20	87
Social & Welfare Services	44	38	38	73
Transport & Mobility	58	53	61	53
Utilities	35	28	29	90

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?

REFERENCE SAMPLE

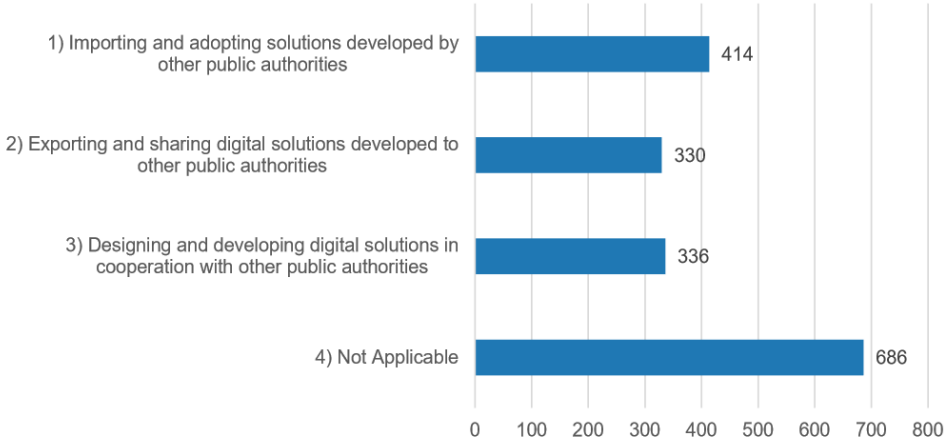
Question typology: ***Matrix - Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Importing and adopting solutions developed by other public authorities	414	30%
2) Exporting and sharing digital solutions developed to other public authorities	330	24%
3) Designing and developing digital solutions in cooperation with other public authorities	336	24%
4) Not Applicable	686	49%

* The Count is given by the sum of all the selected rows within the same matrix column

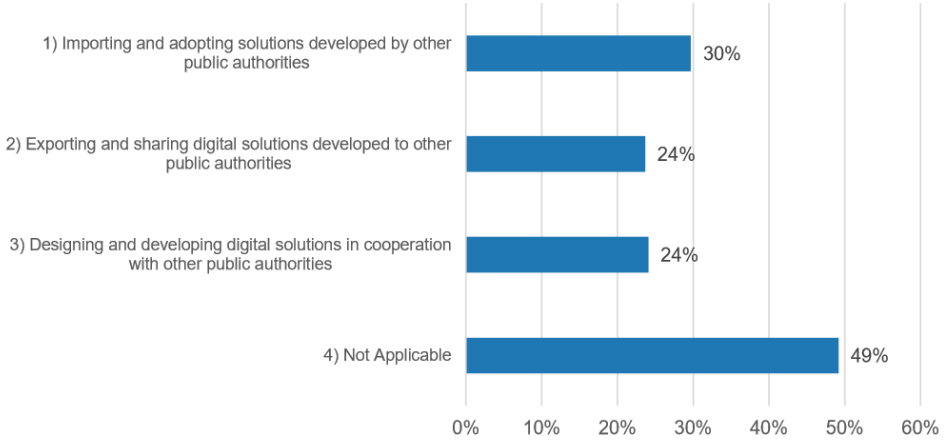
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



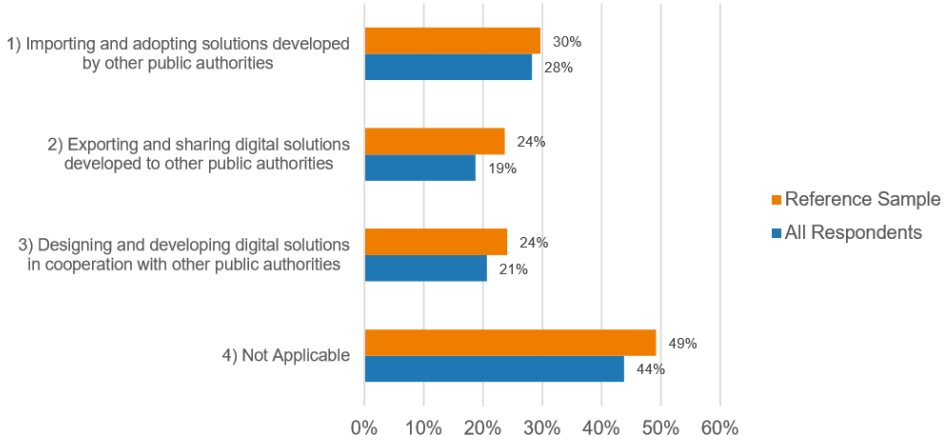
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	-	Count

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



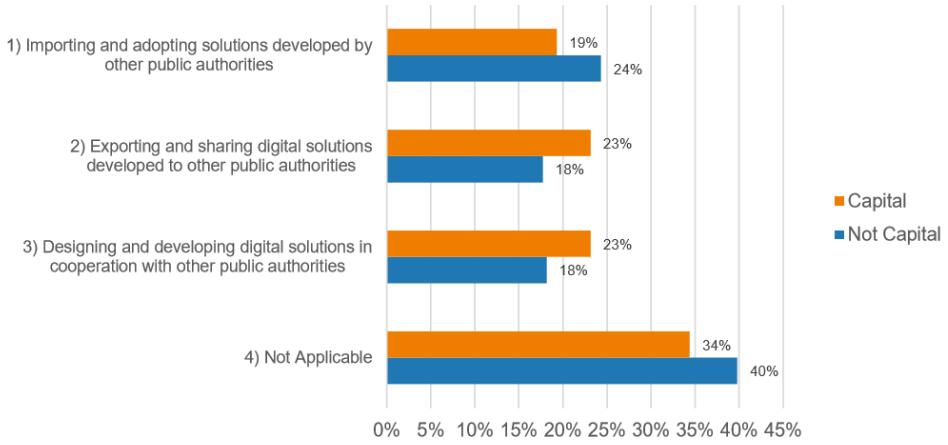
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	-	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



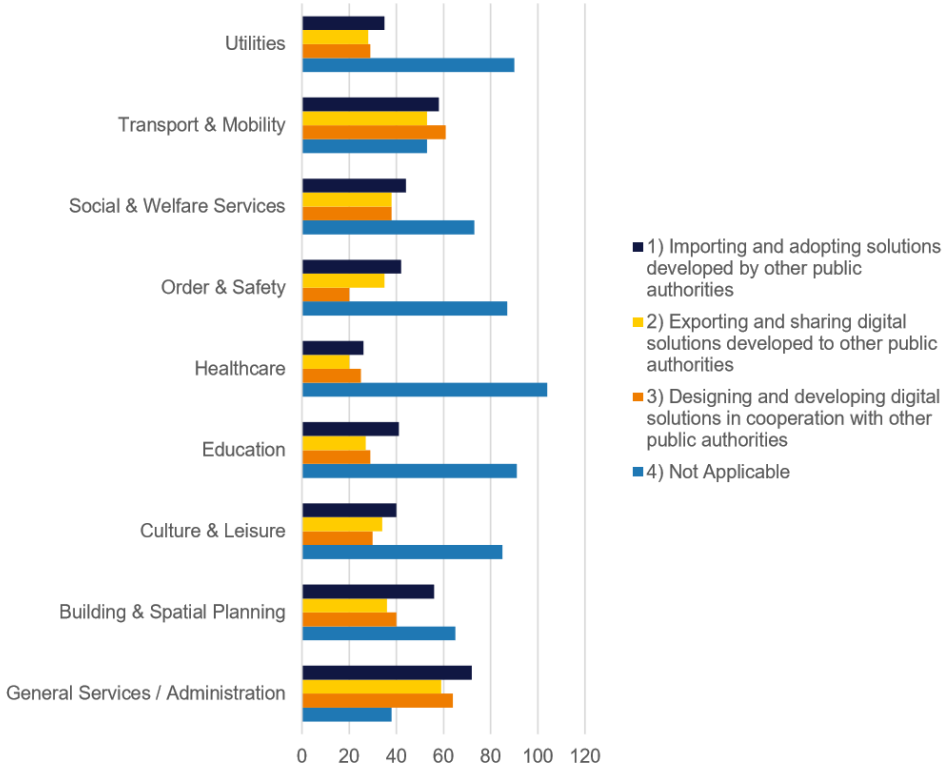
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Reference Sample	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



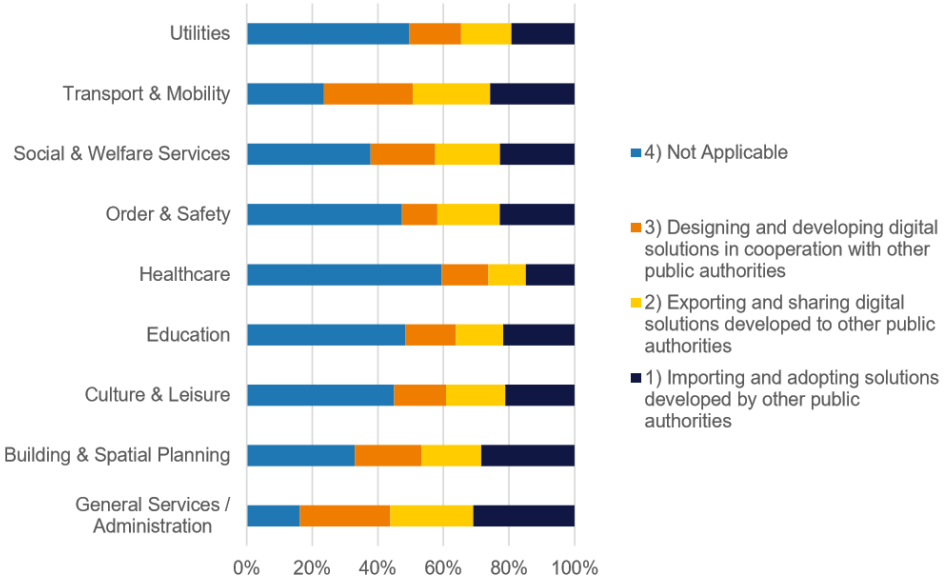
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Capital cities	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



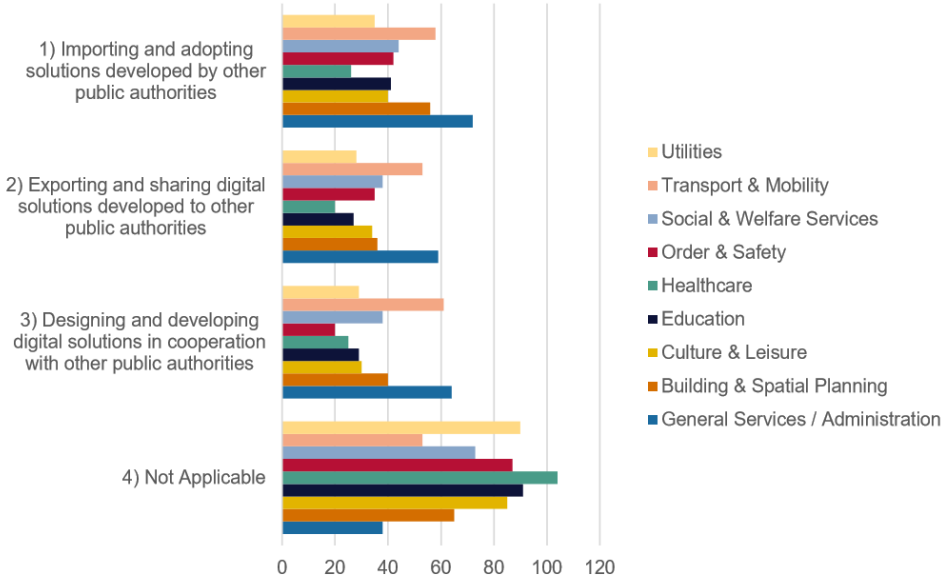
Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Count

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Percentage

2.5 Does your public authority benefit from sharing digital solutions, services or products with other public authorities?



Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Count

3.9 Q_3.1 How is the budget for digital innovation organised in your public authority?

3.1 How is the budget for digital innovation organised in your public authority?

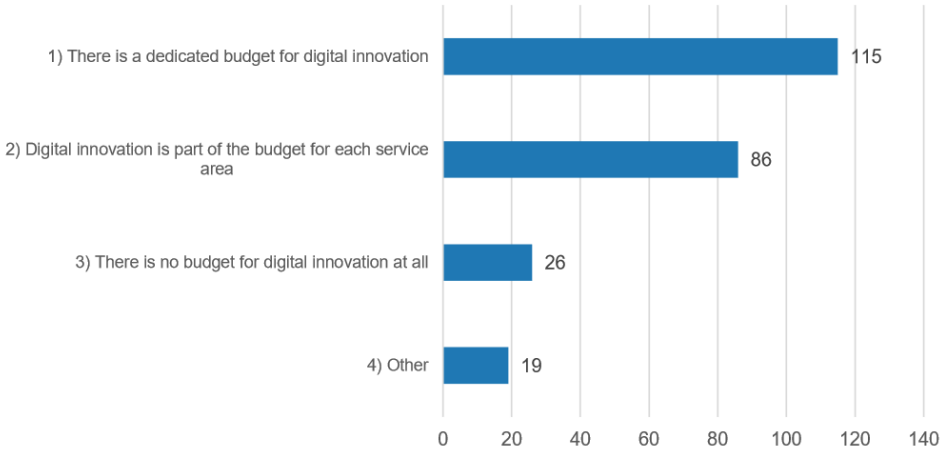
ALL RESPONDENTS

Question type:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) There is a dedicated budget for digital innovation	115	47%
2) Digital innovation is part of the budget for each service area	86	35%
3) There is no budget for digital innovation at all	26	11%
4) Other	19	8%

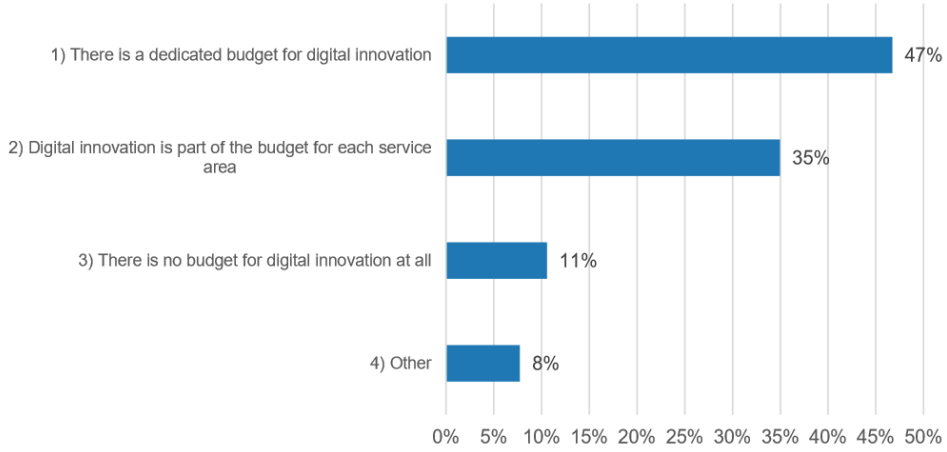
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.1 How is the budget for digital innovation organised in your public authority?



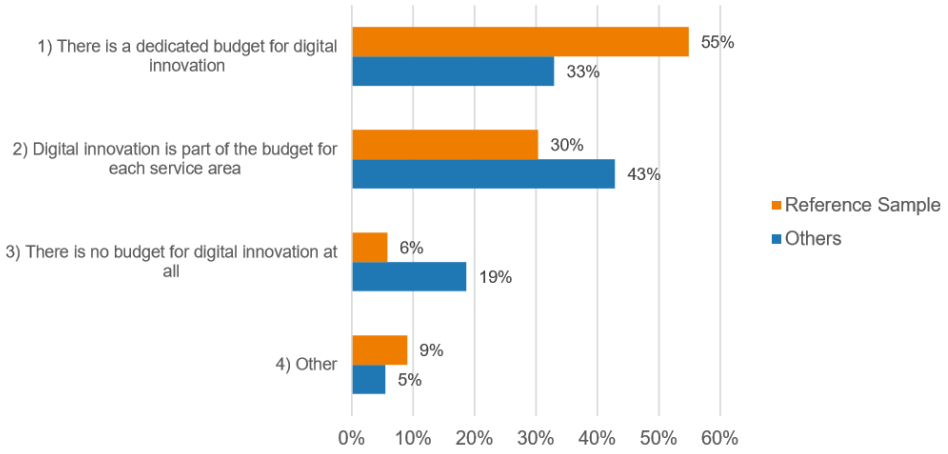
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

3.1 How is the budget for digital innovation organised in your public authority?



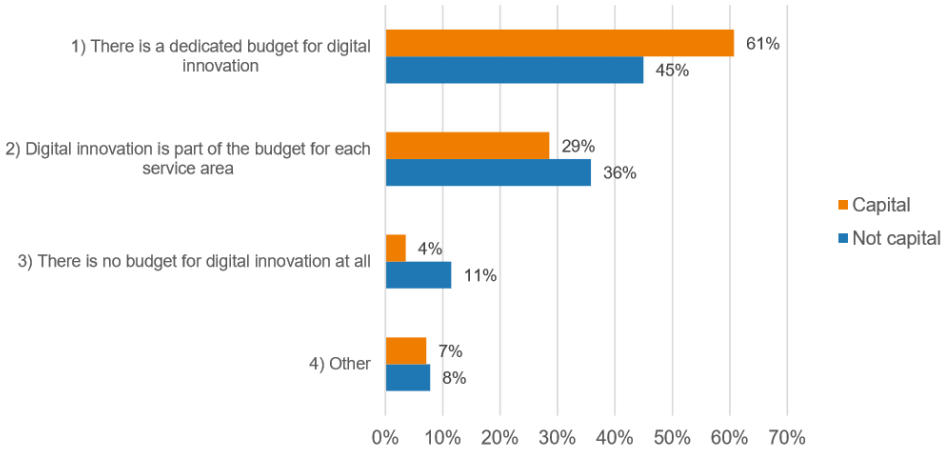
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



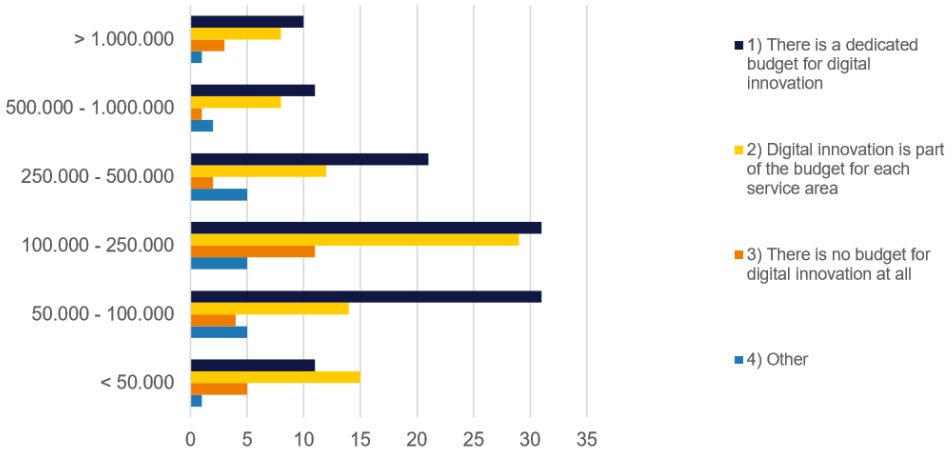
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



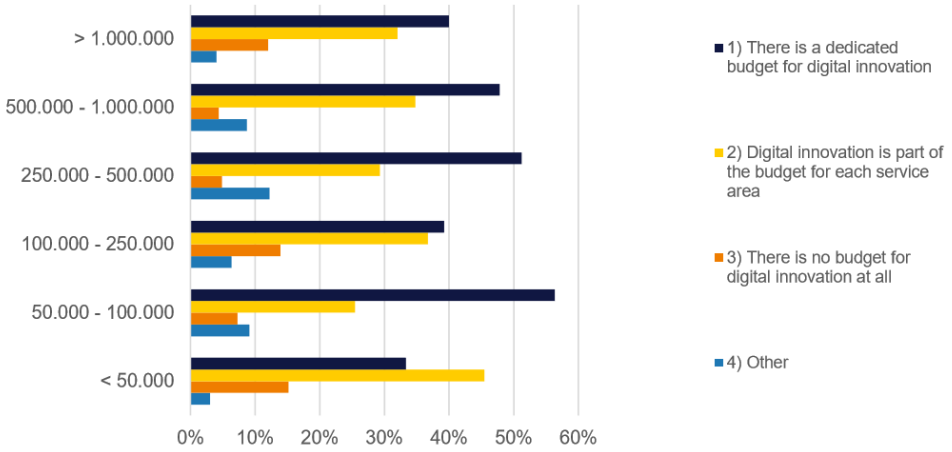
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



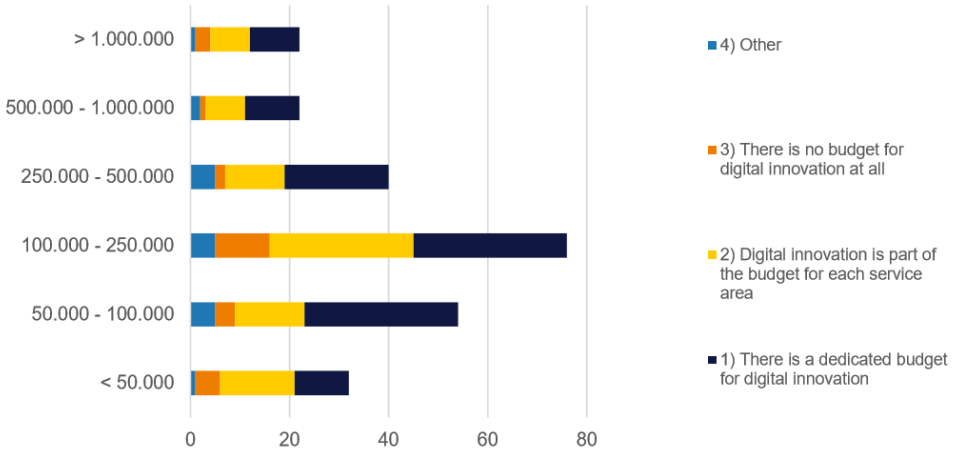
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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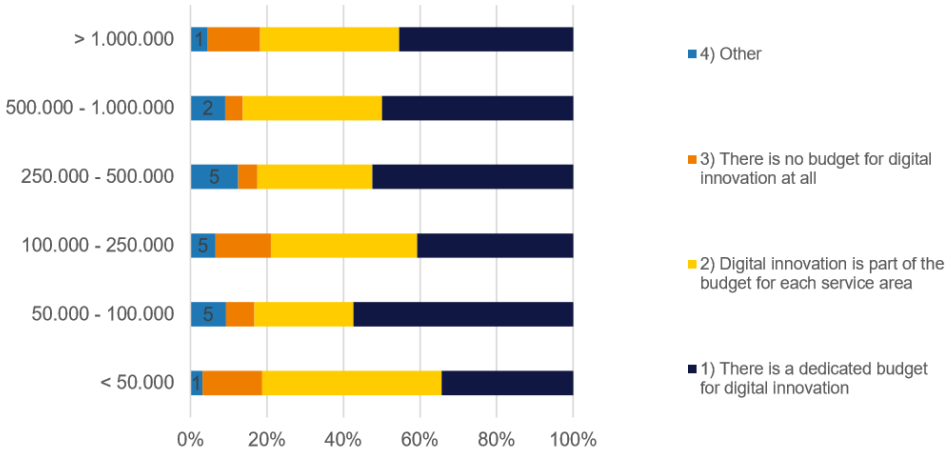
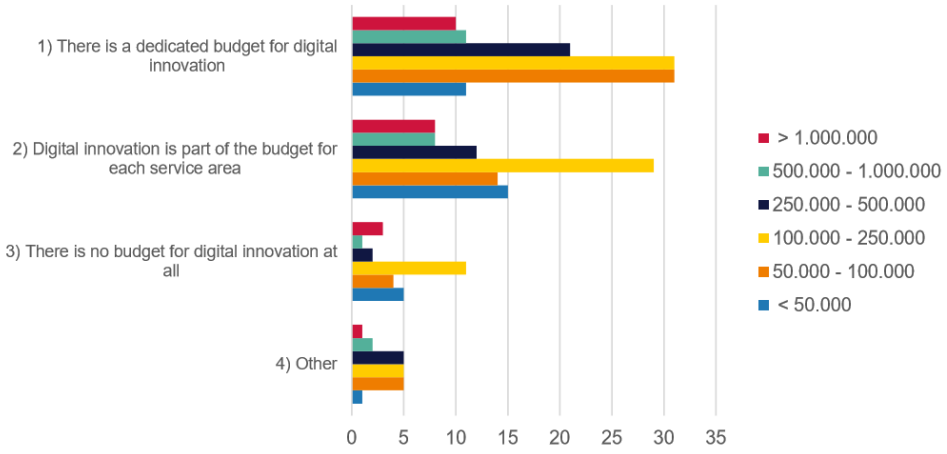


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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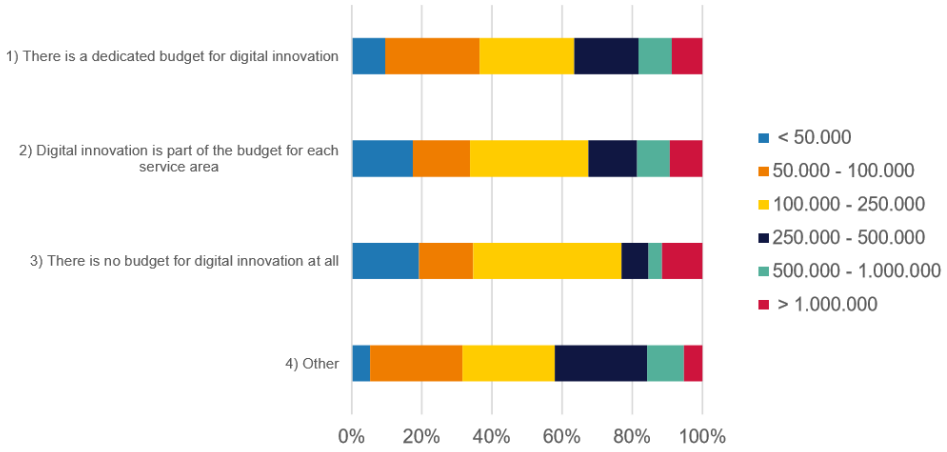
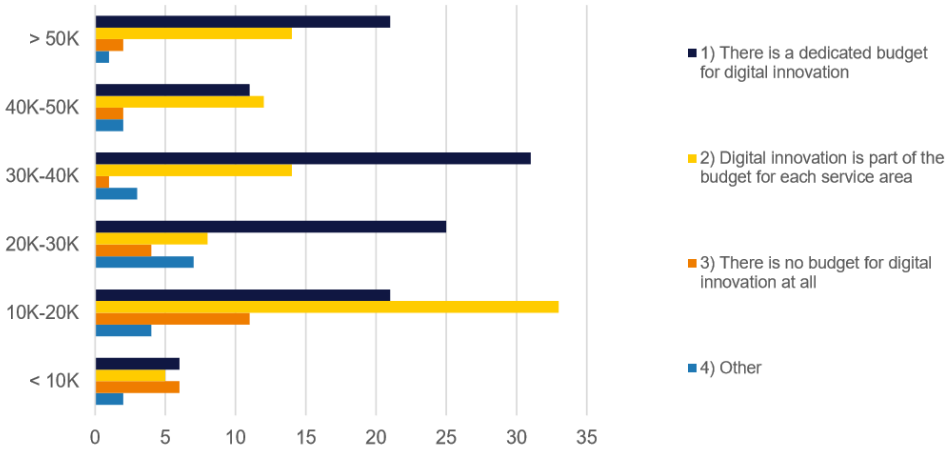


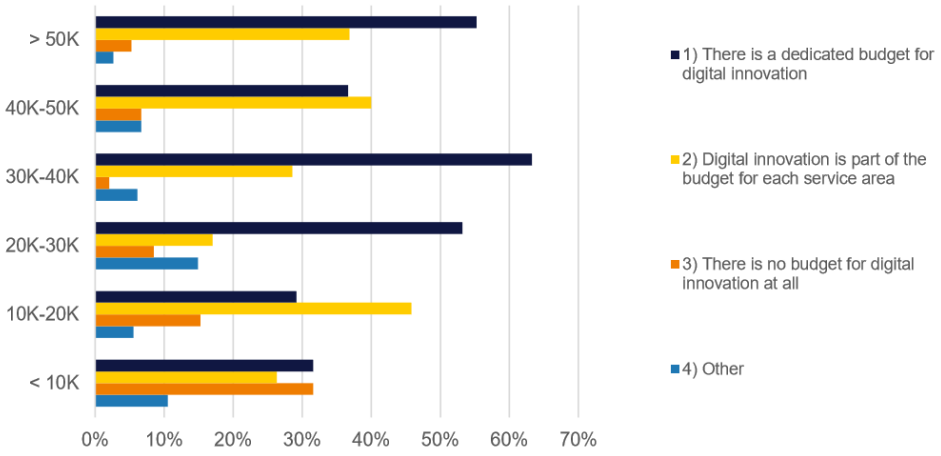
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



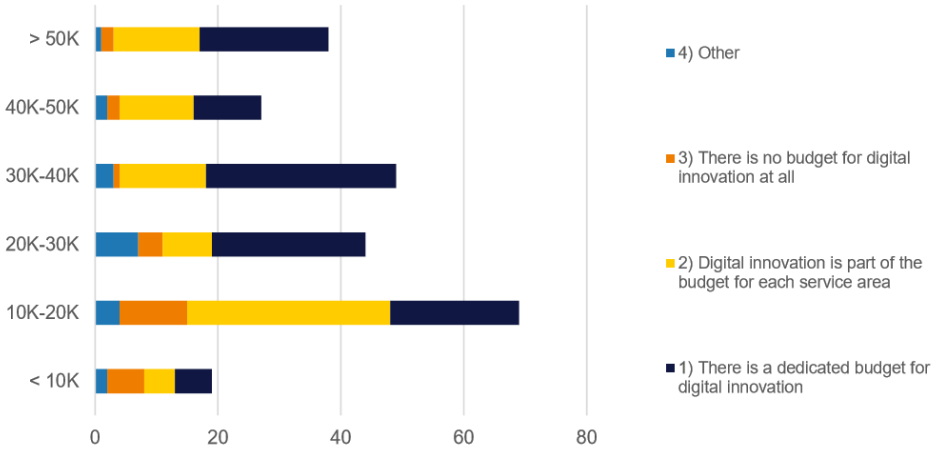
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

3.1 How is the budget for digital innovation organised in your public authority?



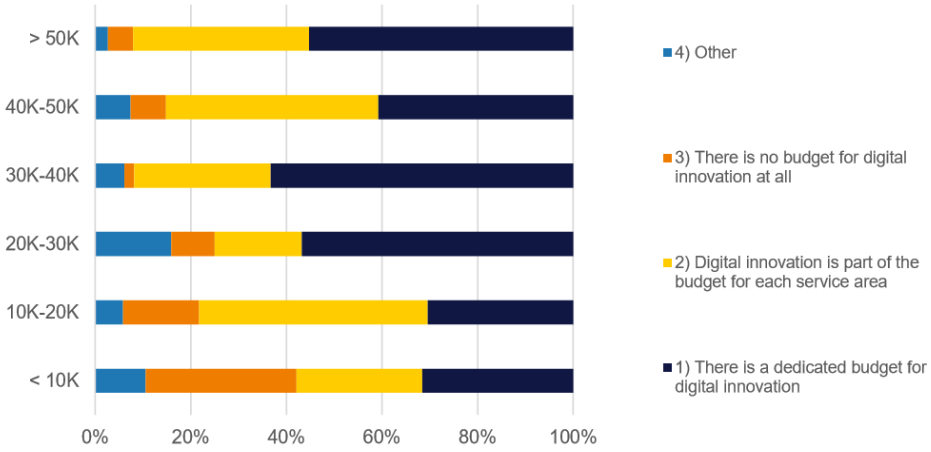
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



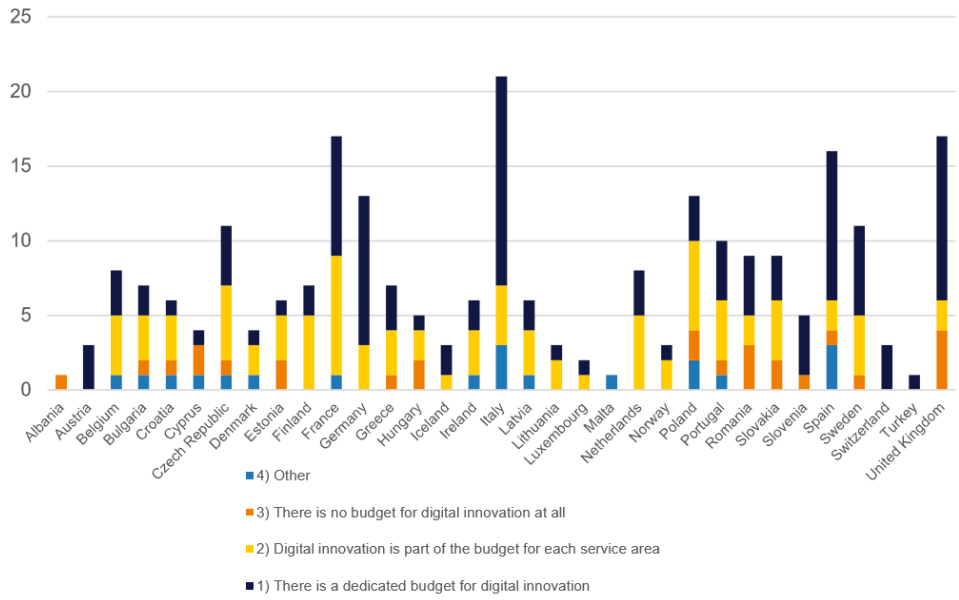
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

3.1 How is the budget for digital innovation organised in your public authority?



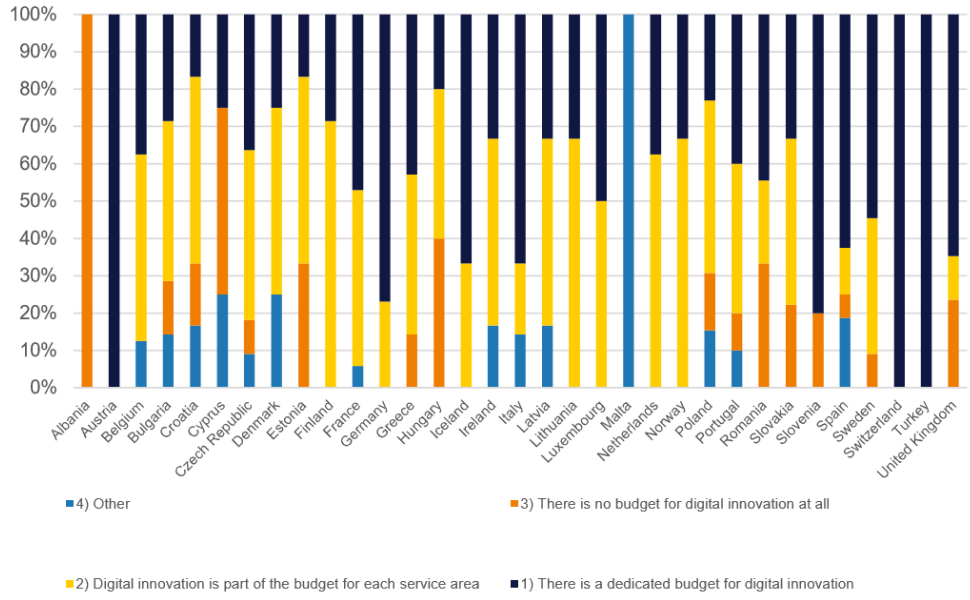
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

3.1 How is the budget for digital innovation organised in your public authority?

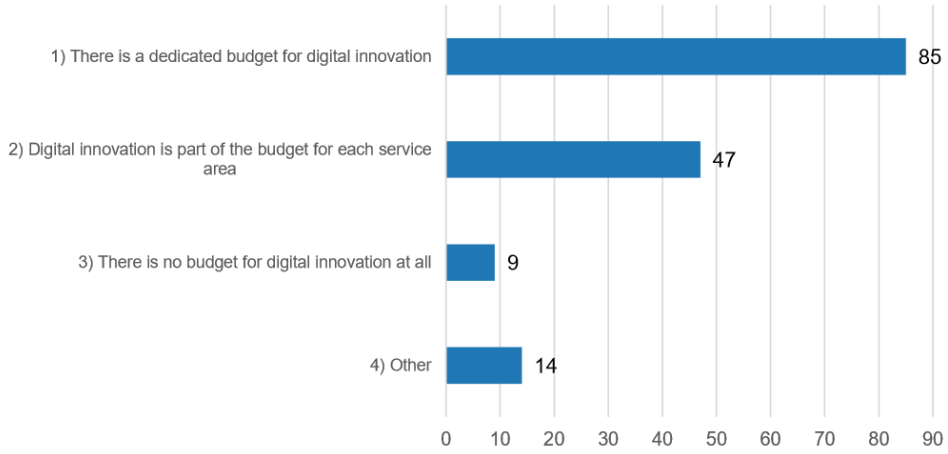
REFERENCE SAMPLE

Question type:	***Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) There is a dedicated budget for digital innovation	85	55%
2) Digital innovation is part of the budget for each service area	47	30%
3) There is no budget for digital innovation at all	9	6%
4) Other	14	9%

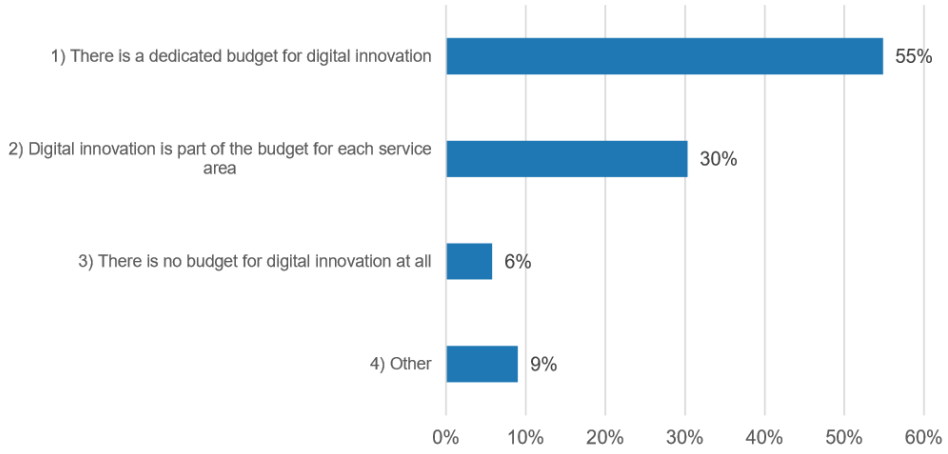
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

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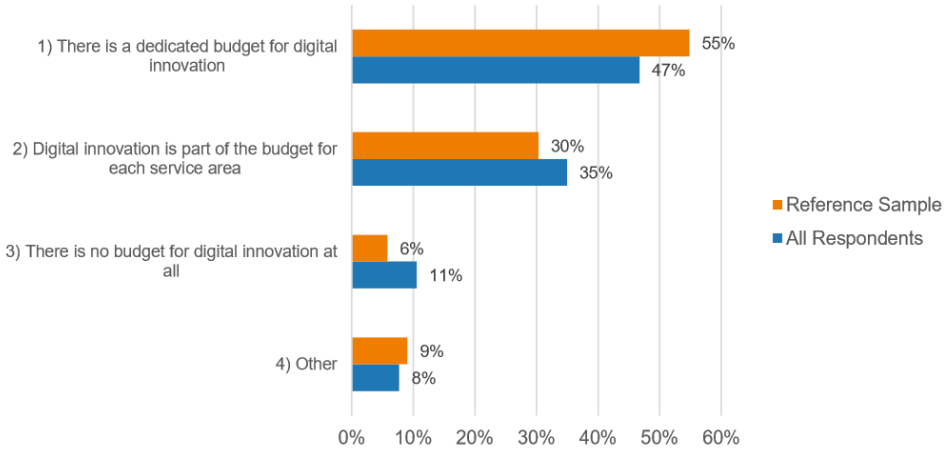

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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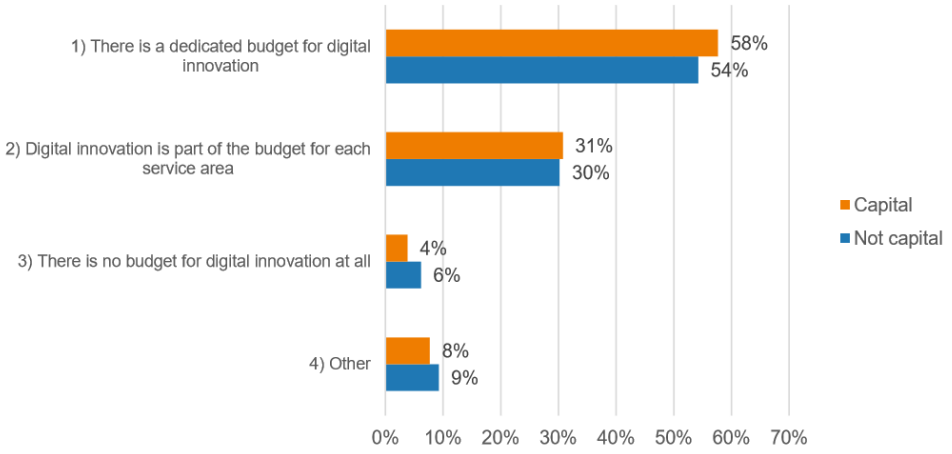
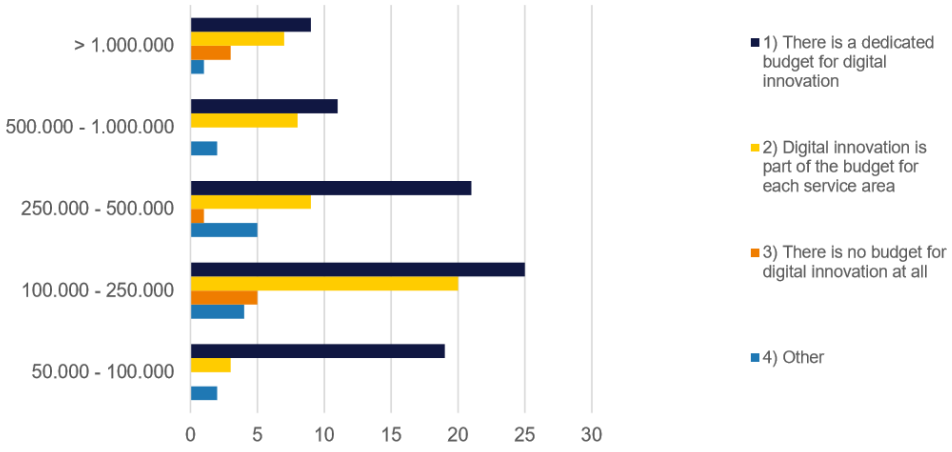


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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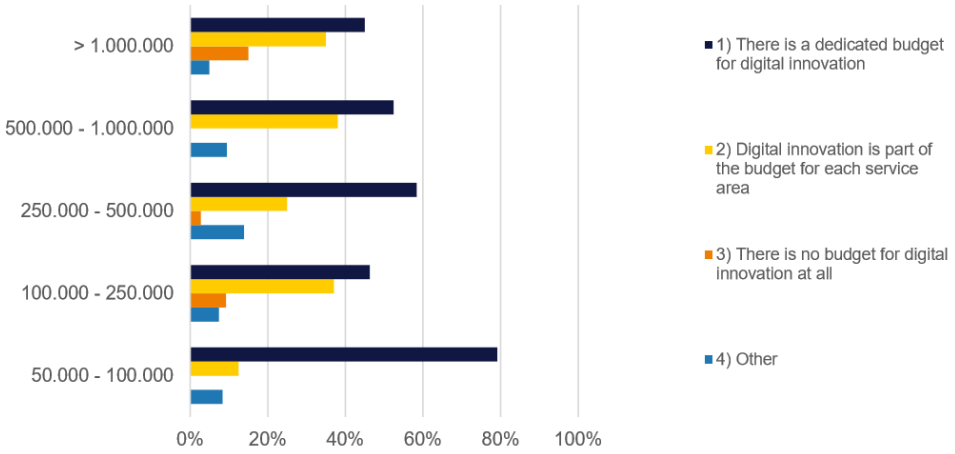

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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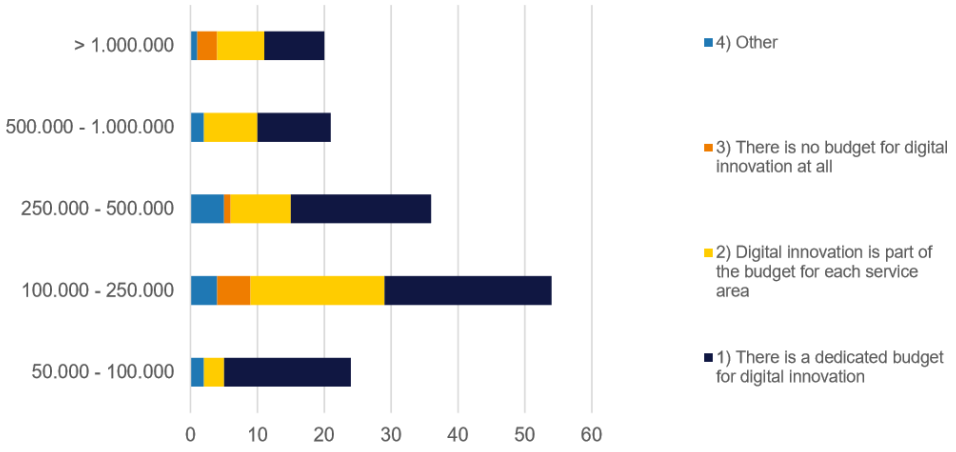

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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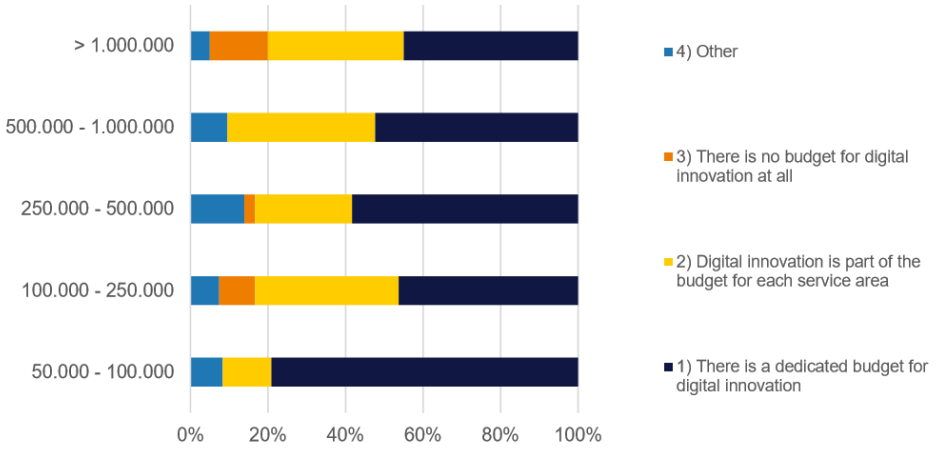

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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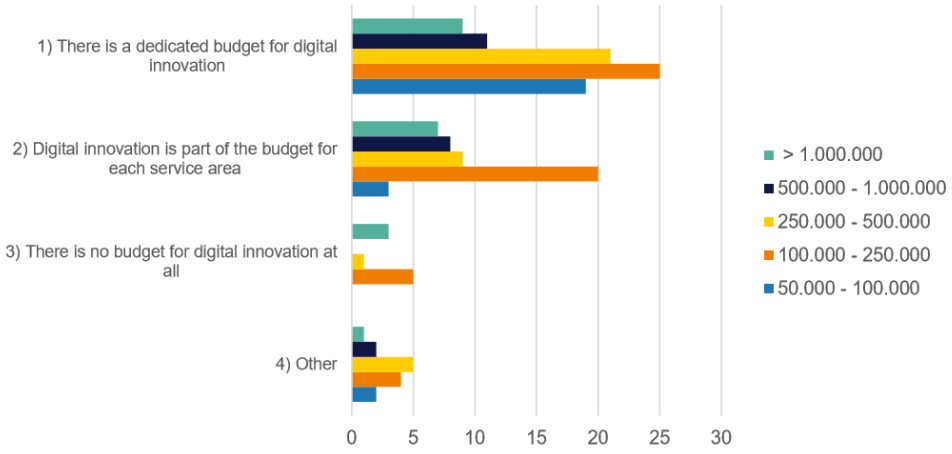

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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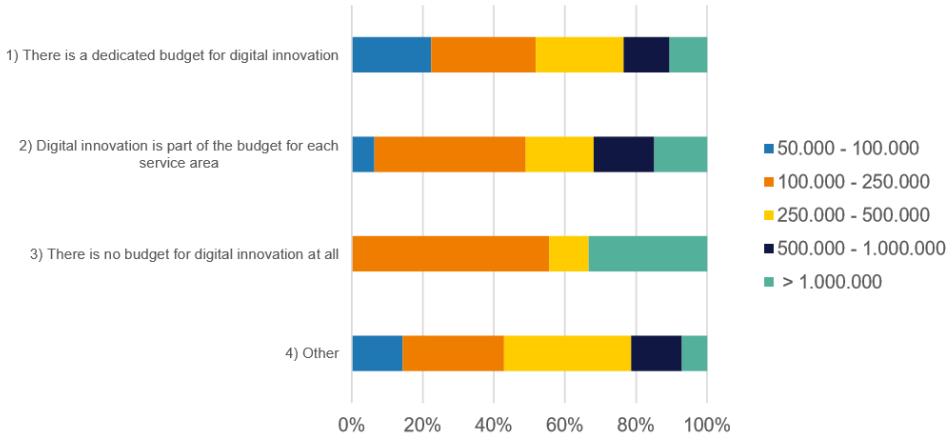
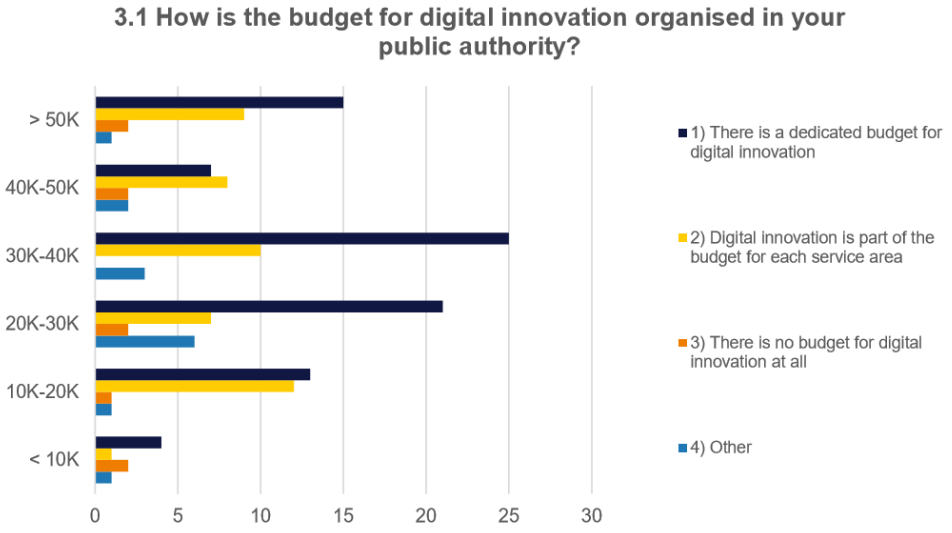
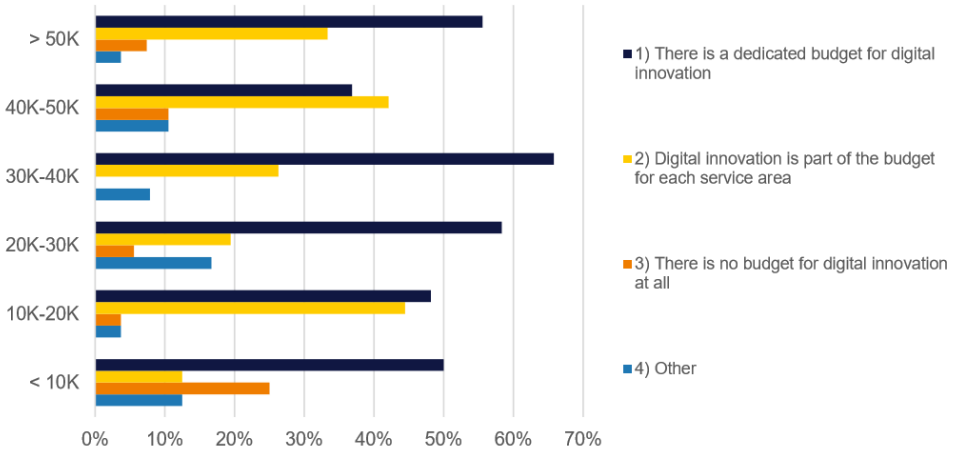


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

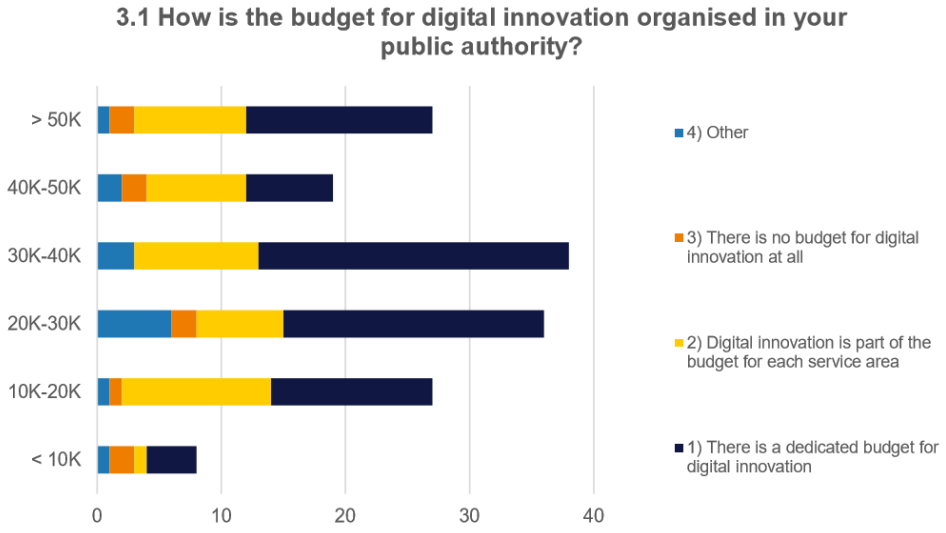


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

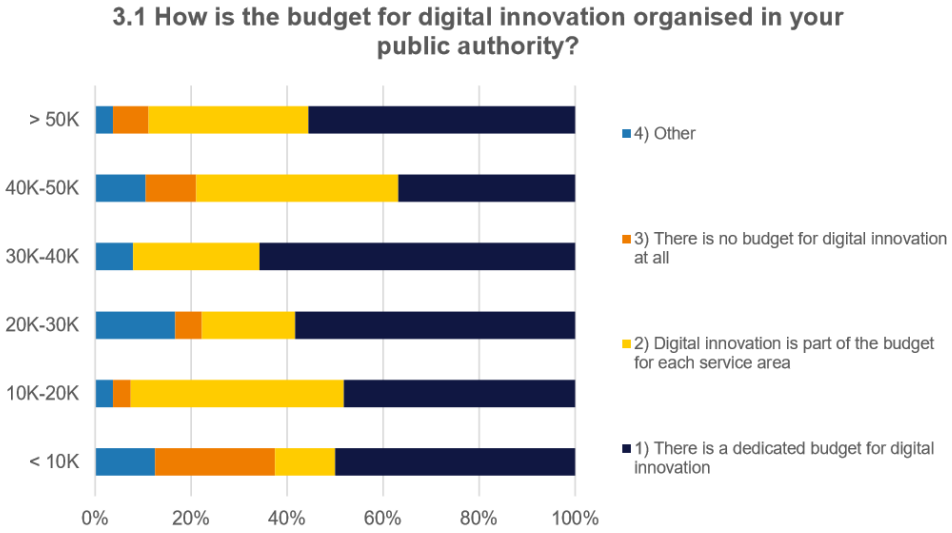
3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

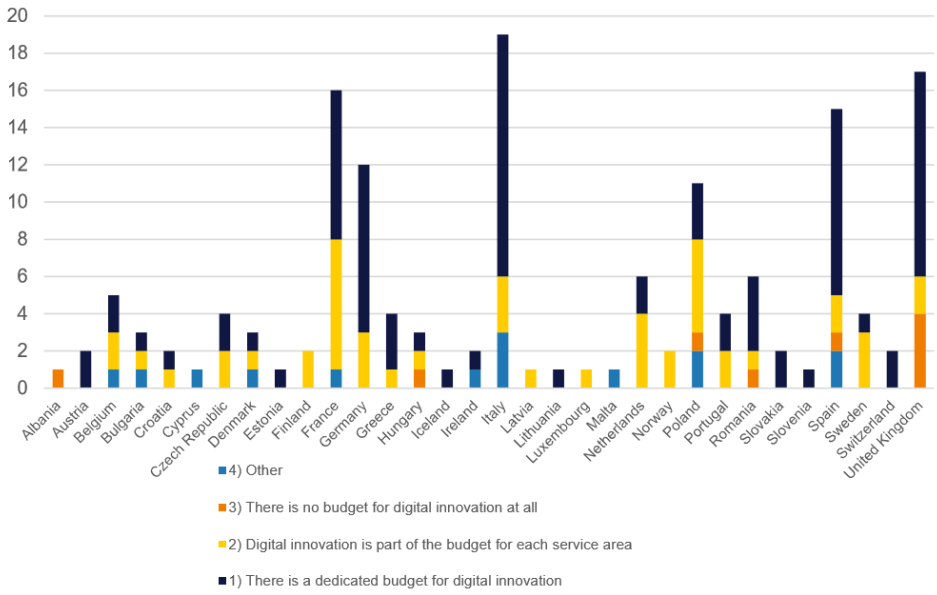


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count



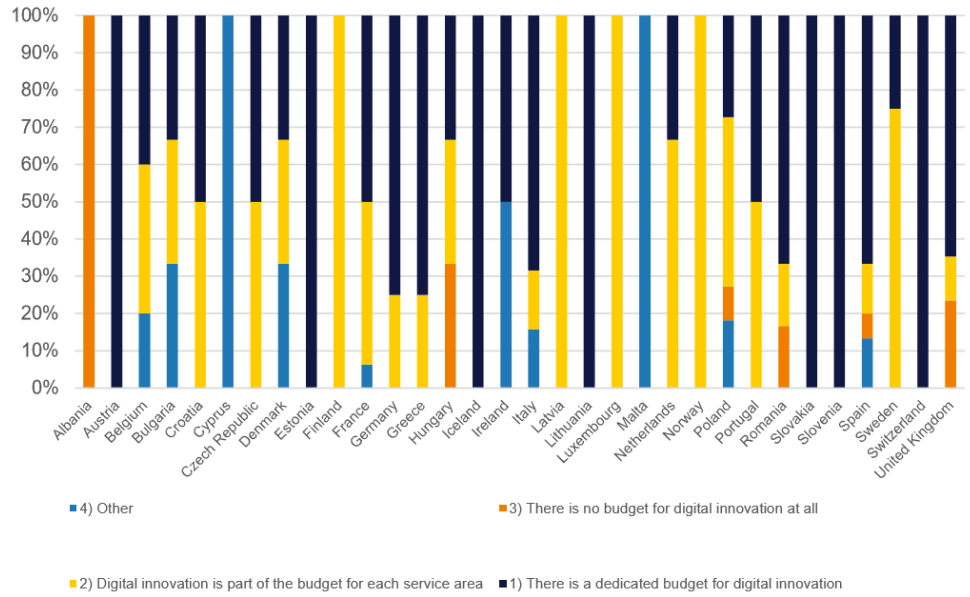
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

3.1 How is the budget for digital innovation organised in your public authority?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count

3.1 How is the budget for digital innovation organised in your public authority?



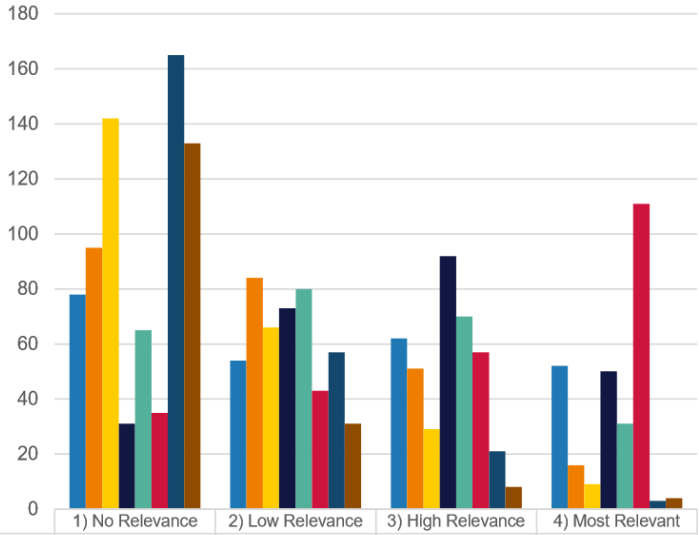
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.10 Q_3.2 What are the key funding sources for digital innovation in your public authority?

3.2 What are the key funding sources for digital innovation in your public authority? :

ALL RESPONDENTS

Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**



	1) No Relevance	2) Low Relevance	3) High Relevance	4) Most Relevant
Structural and cohesion funds (e.g. ERDF)	78	54	62	52
Horizon 2020/Horizon Europe	95	84	51	16
Invest EU	142	66	29	9
National	31	73	92	50
Regional	65	80	70	31
Local/Autonomous public funds	35	43	57	111
Private	165	57	21	3
Other	133	31	8	4

3.2 What are the key funding sources for digital innovation in your public authority? :

ALL RESPONDENTS

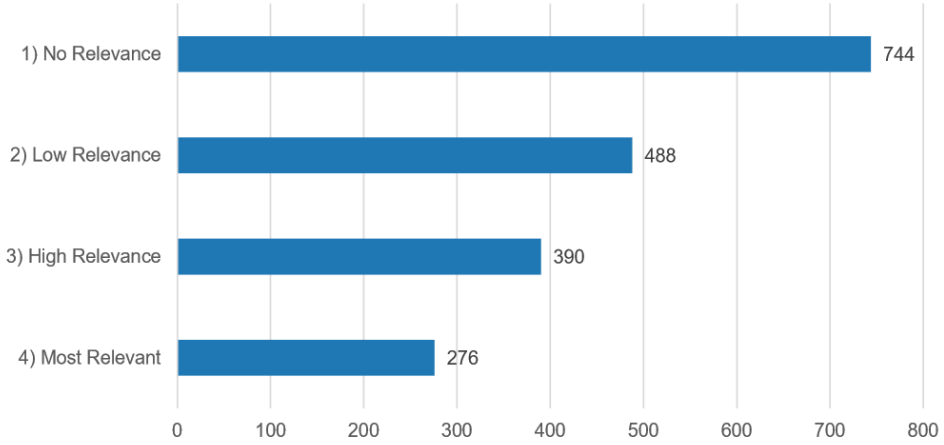
Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) No Relevance	744	34%
2) Low Relevance	488	22%
3) High Relevance	390	18%
4) Most Relevant	276	12%

* The Count is given by the sum of all the selected rows within the same matrix column

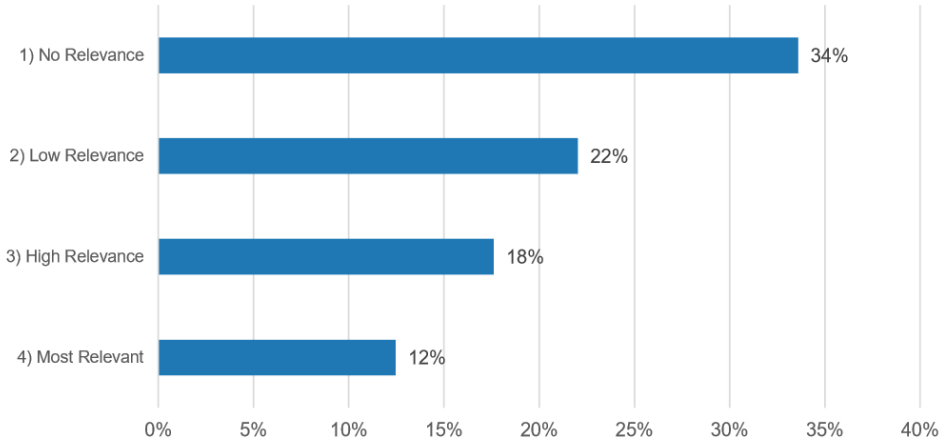
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.2 What are the key funding sources for digital innovation in your public authority? :

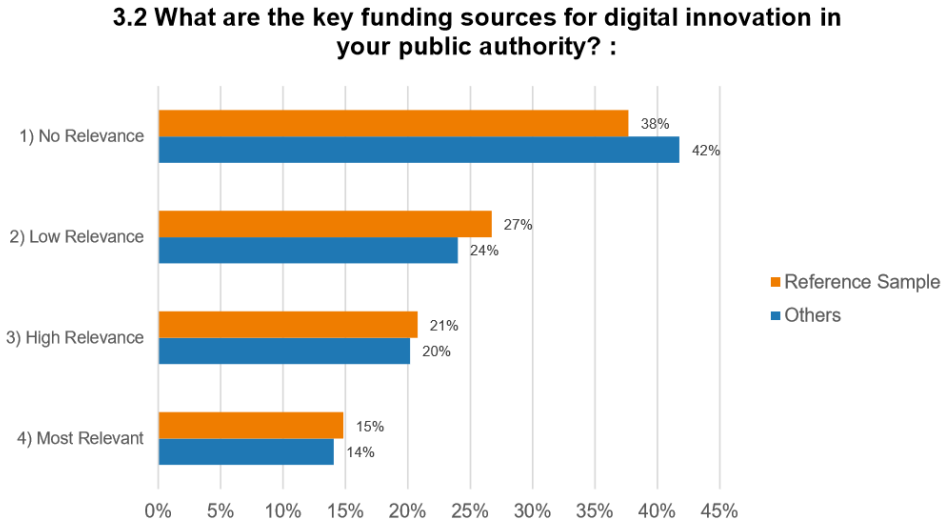


Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	-	Count

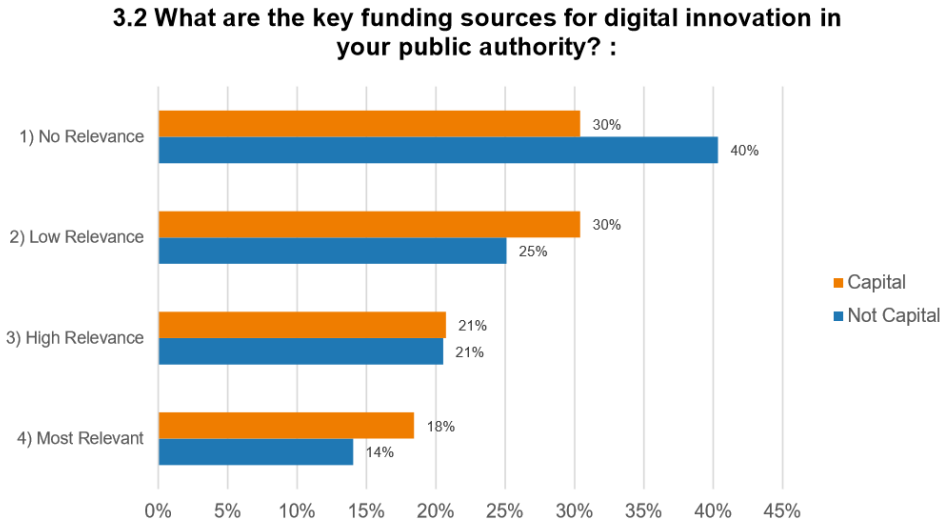
3.2 What are the key funding sources for digital innovation in your public authority? :



Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	-	Percentage

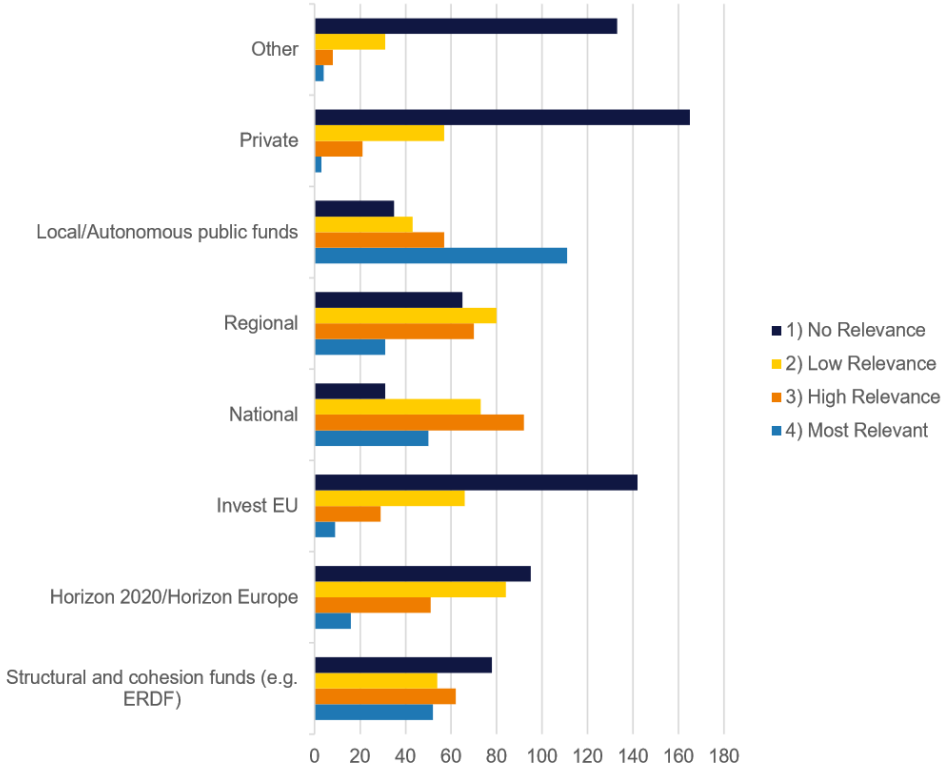


Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Reference Sample	Percentage



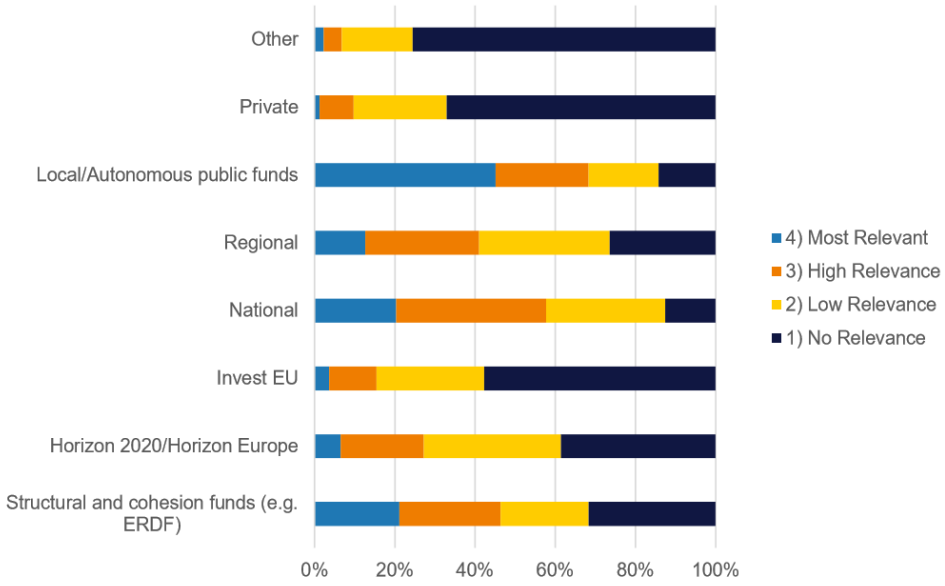
Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Capital cities	Percentage

3.2 What are the key funding sources for digital innovation in your public authority? :



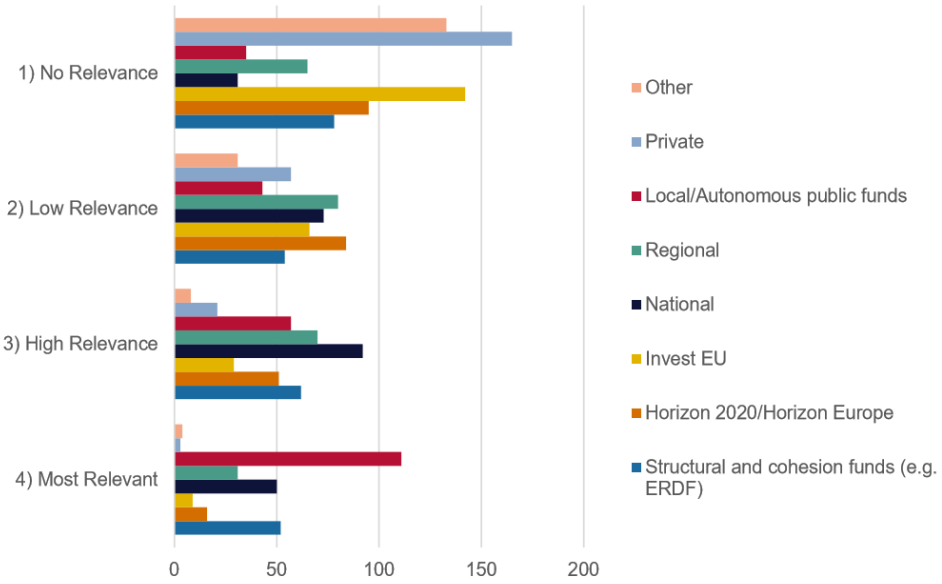
Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Matrix	Count

3.2 What are the key funding sources for digital innovation in your public authority? :



Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Matrix	Percentage

3.2 What are the key funding sources for digital innovation in your public authority? :

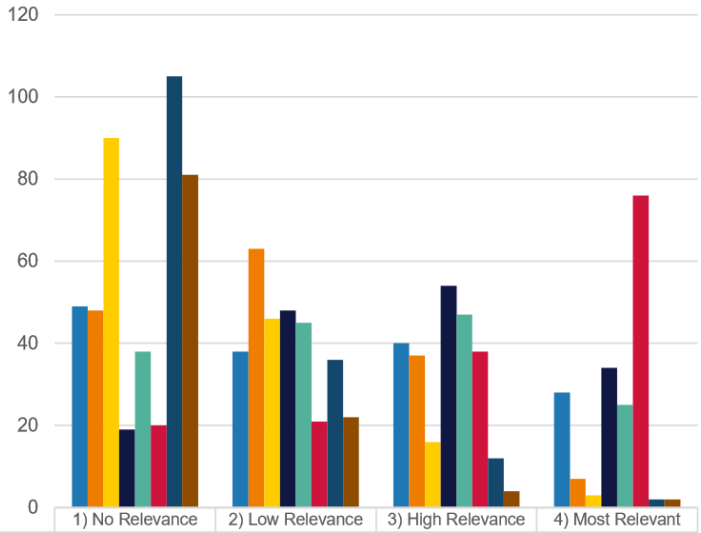


Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Matrix	Count

3.2 What are the key funding sources for digital innovation in your public authority? :

REFERENCE SAMPLE

Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**



	1) No Relevance	2) Low Relevance	3) High Relevance	4) Most Relevant
Structural and cohesion funds (e.g. ERDF)	49	38	40	28
Horizon 2020/Horizon Europe	48	63	37	7
Invest EU	90	46	16	3
National	19	48	54	34
Regional	38	45	47	25
Local/Autonomous public funds	20	21	38	76
Private	105	36	12	2
Other	81	22	4	2

3.2 What are the key funding sources for digital innovation in your public authority? :

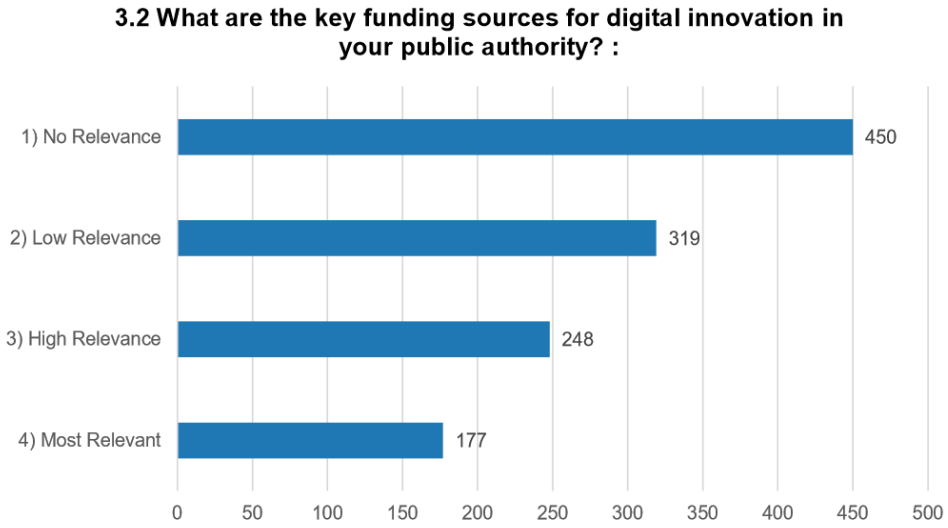
REFERENCE SAMPLE

Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) No Relevance	450	36%
2) Low Relevance	319	26%
3) High Relevance	248	20%
4) Most Relevant	177	14%

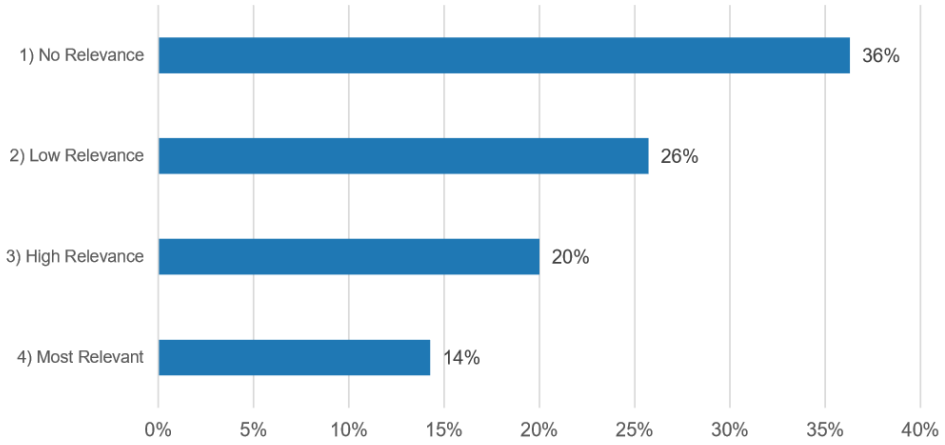
* The Count is given by the sum of all the selected rows within the same matrix column

*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

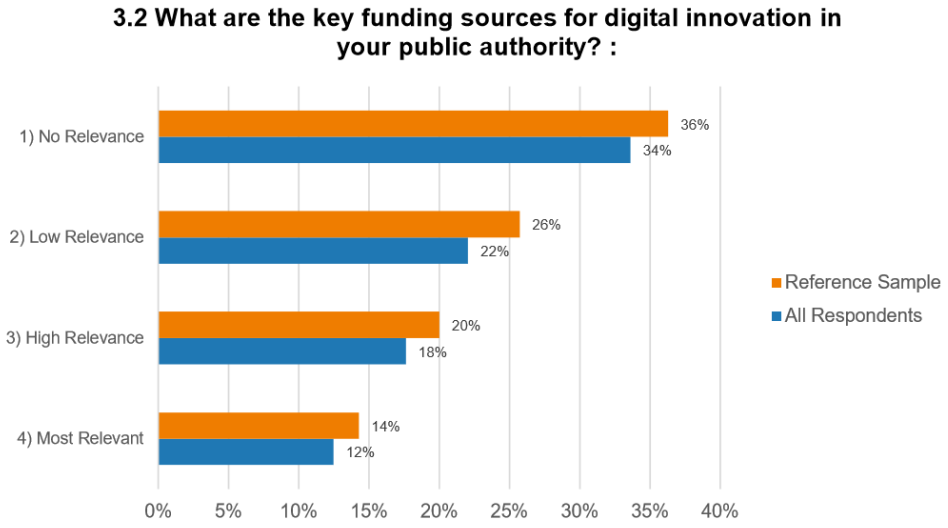


Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	-	Count

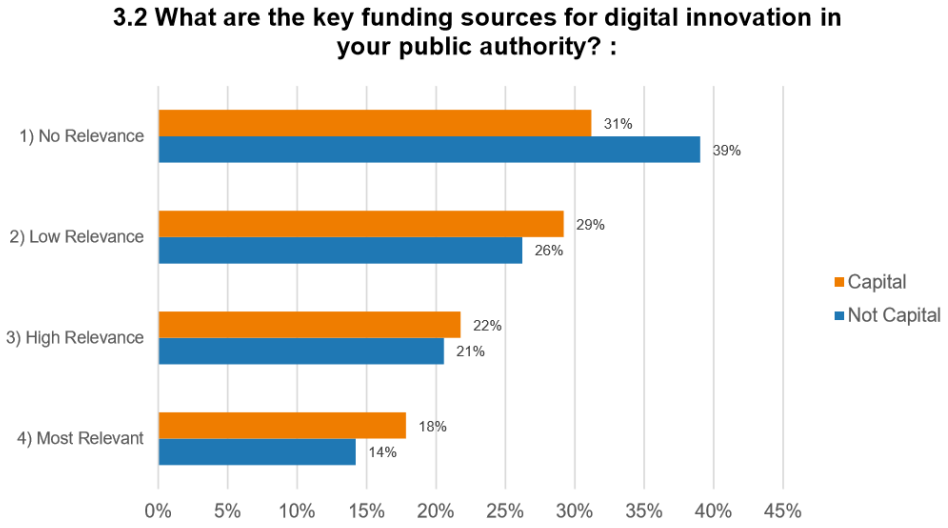
3.2 What are the key funding sources for digital innovation in your public authority? :



Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	-	Percentage

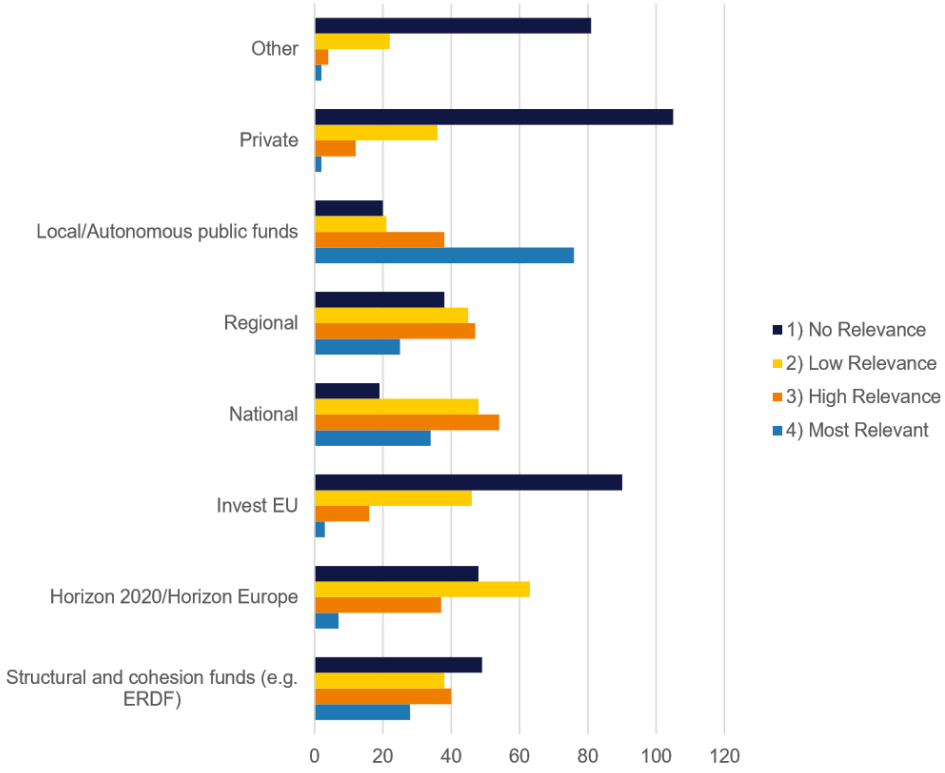


Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Reference Sample	Percentage



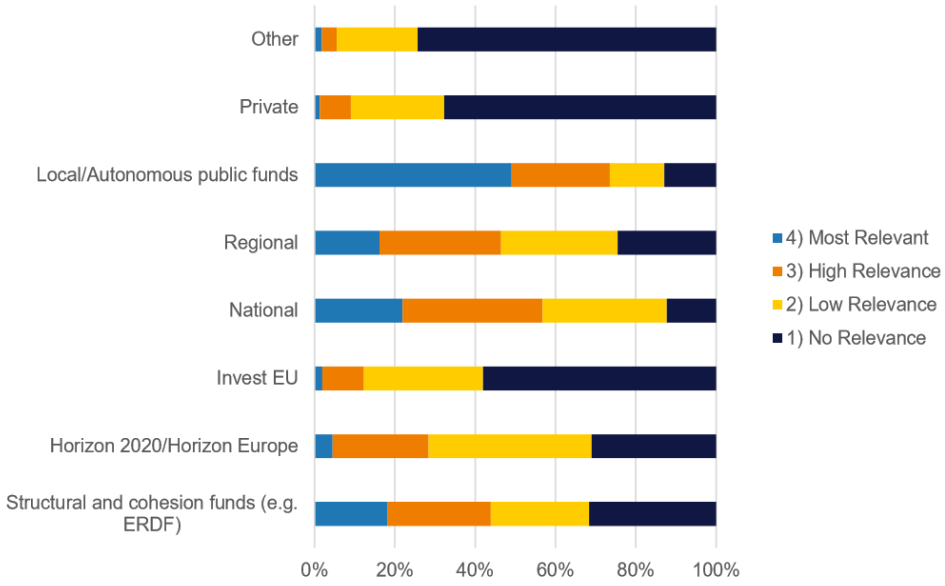
Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Capital cities	Percentage

3.2 What are the key funding sources for digital innovation in your public authority? :



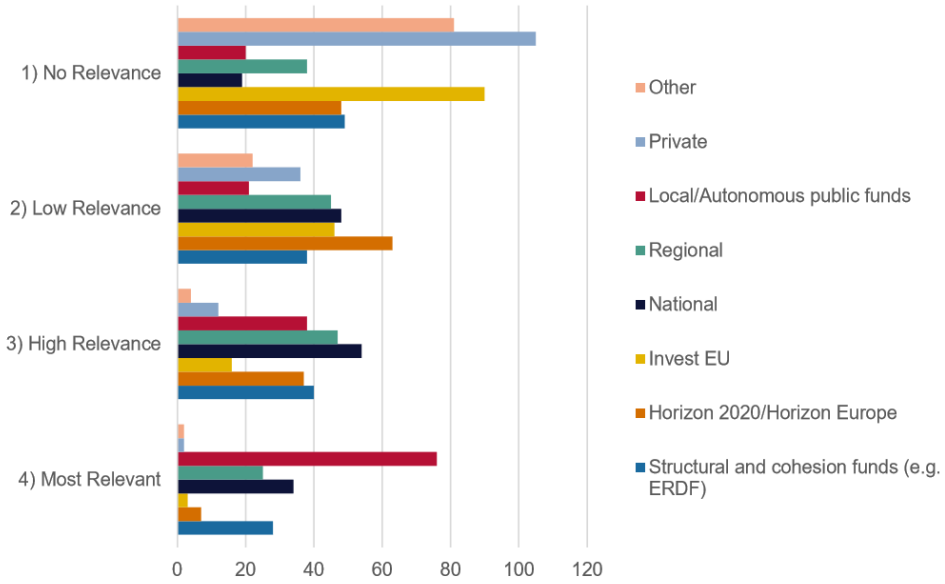
Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Matrix	Count

3.2 What are the key funding sources for digital innovation in your public authority? :



Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Matrix	Percentage

3.2 What are the key funding sources for digital innovation in your public authority? :



Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Matrix	Count

3.11 Q_3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?

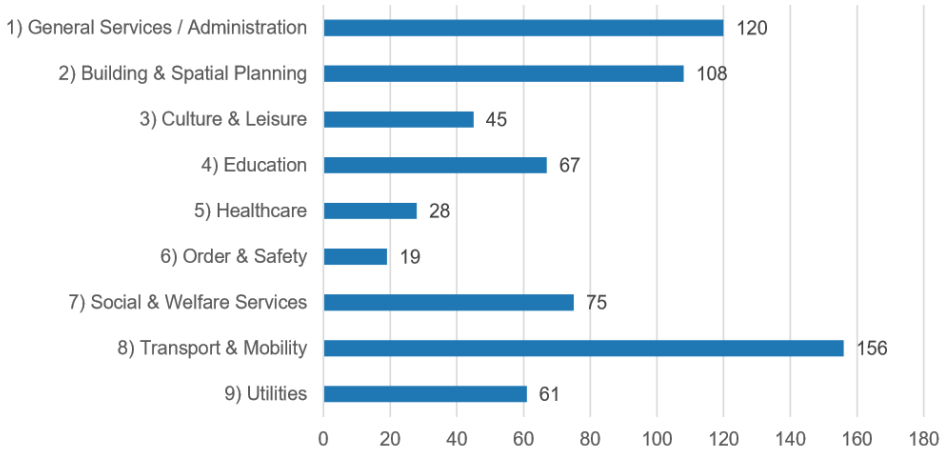
ALL RESPONDENTS

Question type:	***Multiple choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) General Services / Administration	120	49%
2) Building & Spatial Planning	108	44%
3) Culture & Leisure	45	18%
4) Education	67	27%
5) Healthcare	28	11%
6) Order & Safety	19	8%
7) Social & Welfare Services	75	30%
8) Transport & Mobility	156	63%
9) Utilities	61	25%

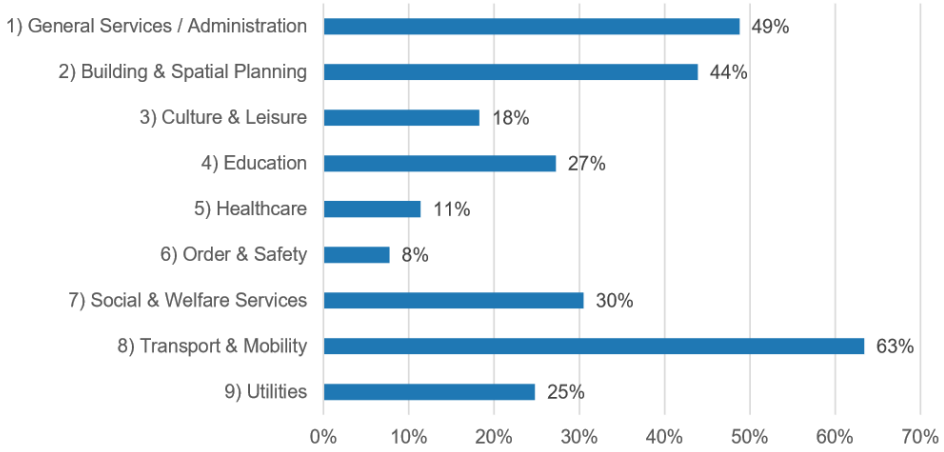
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



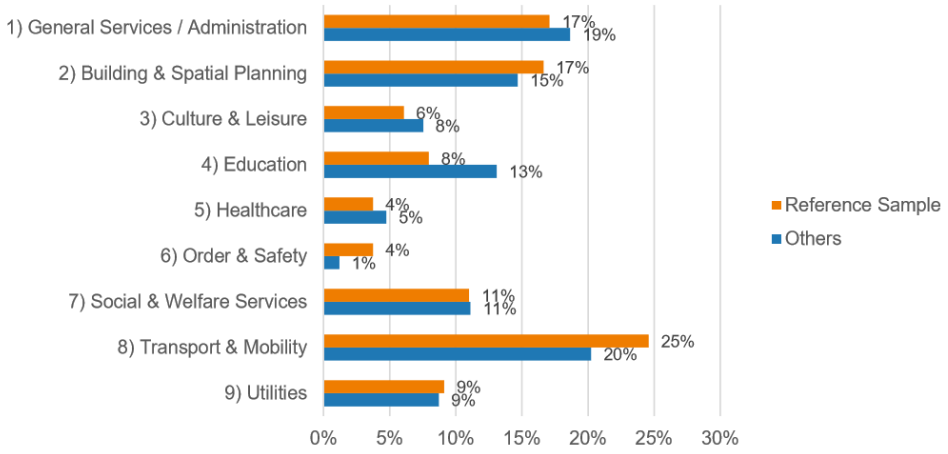
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



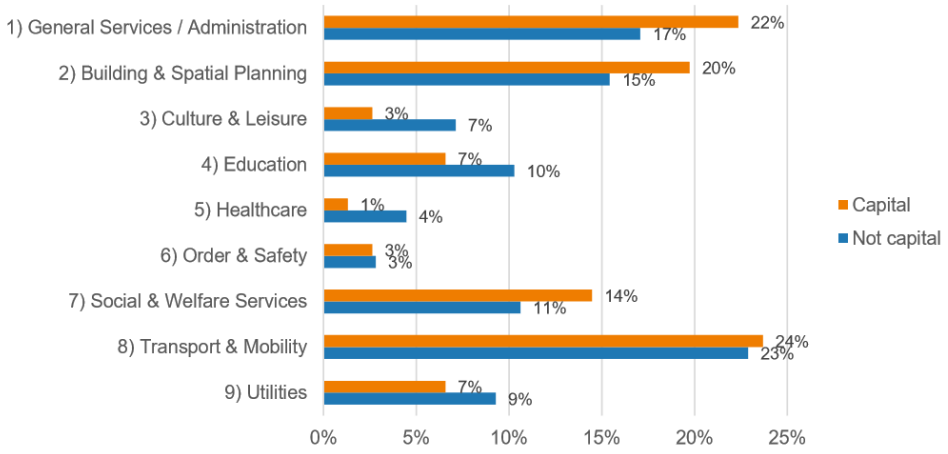
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



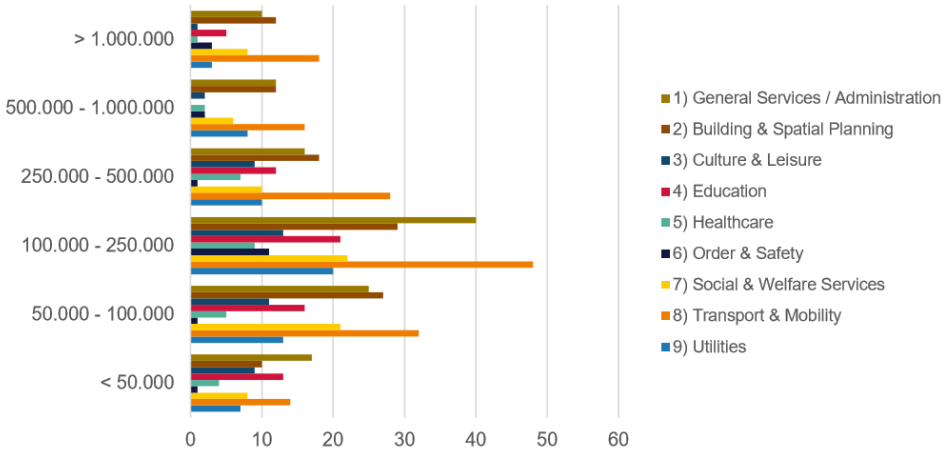
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



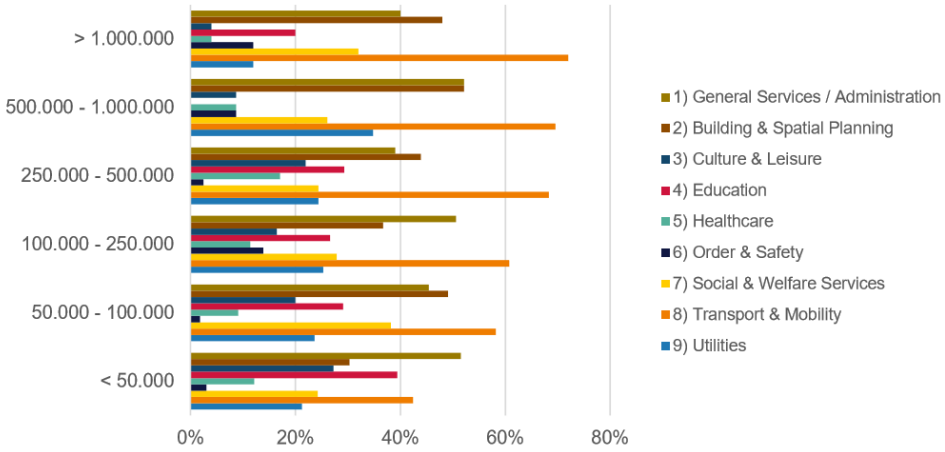
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



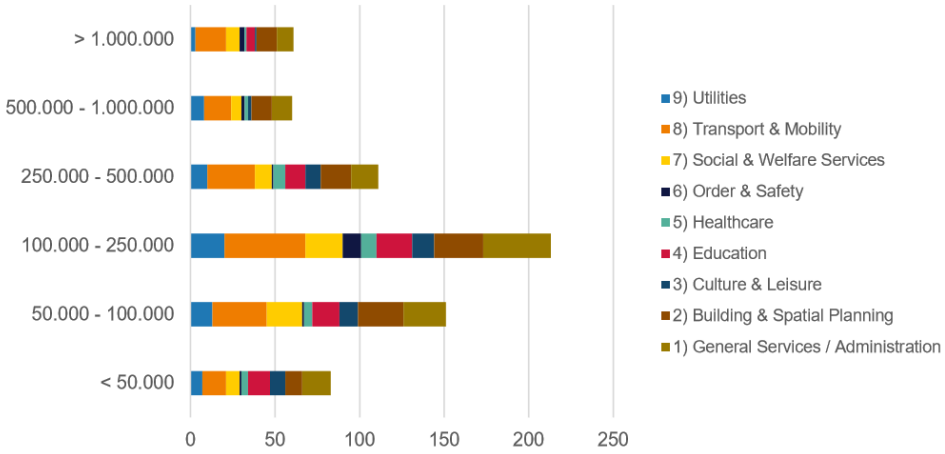
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



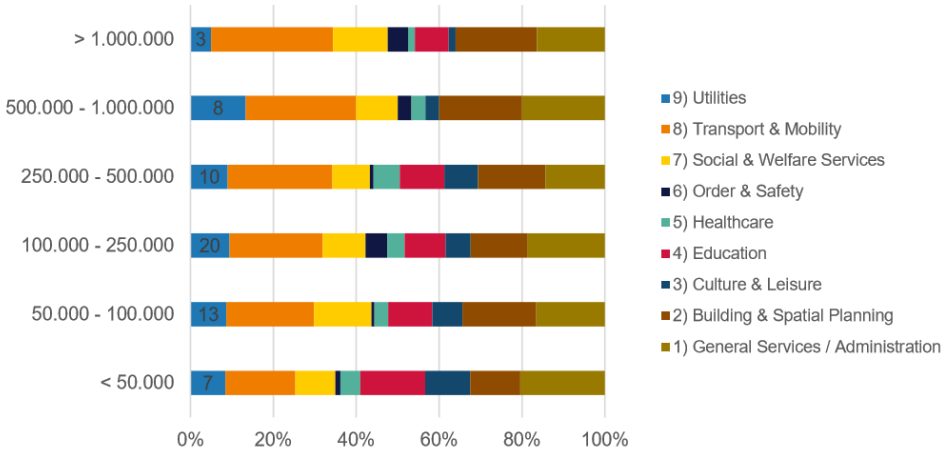
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



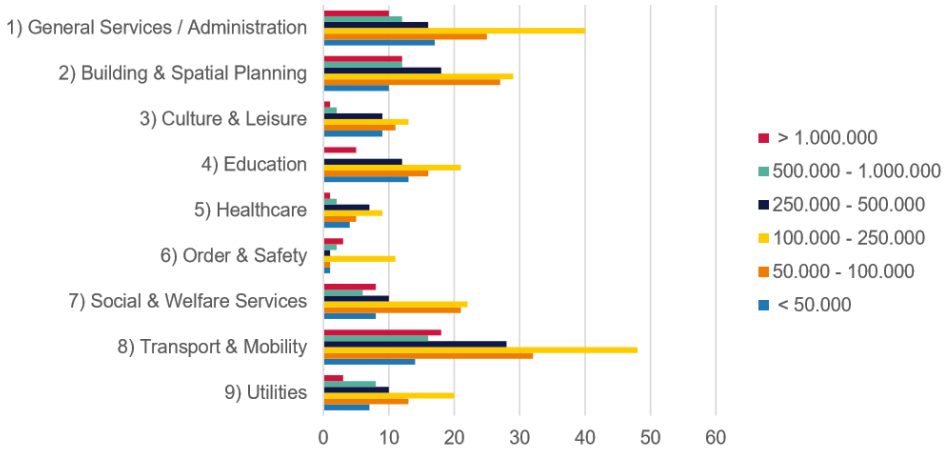
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



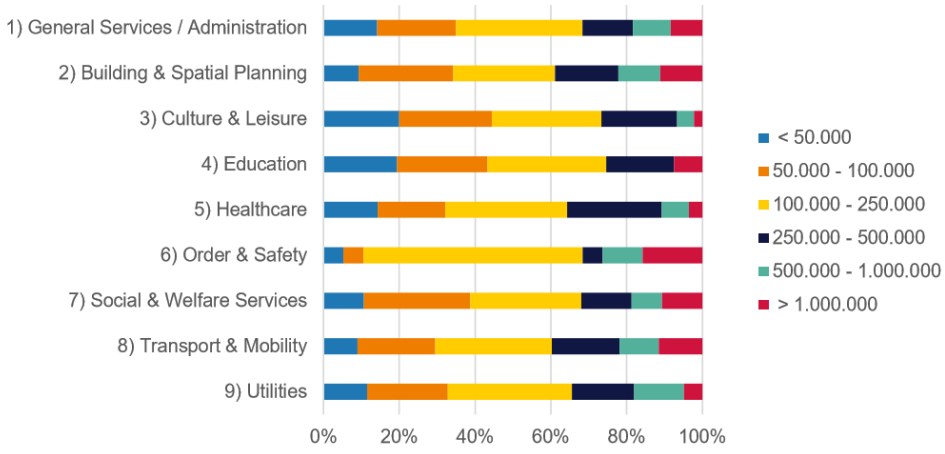
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



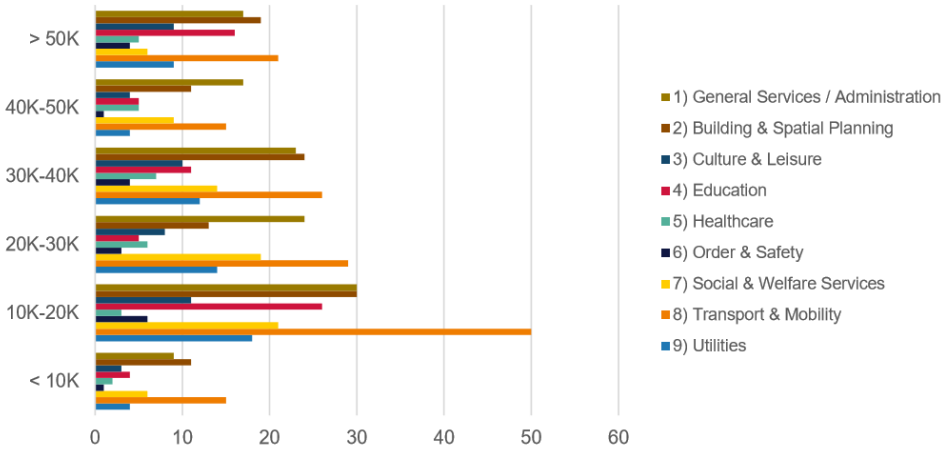
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



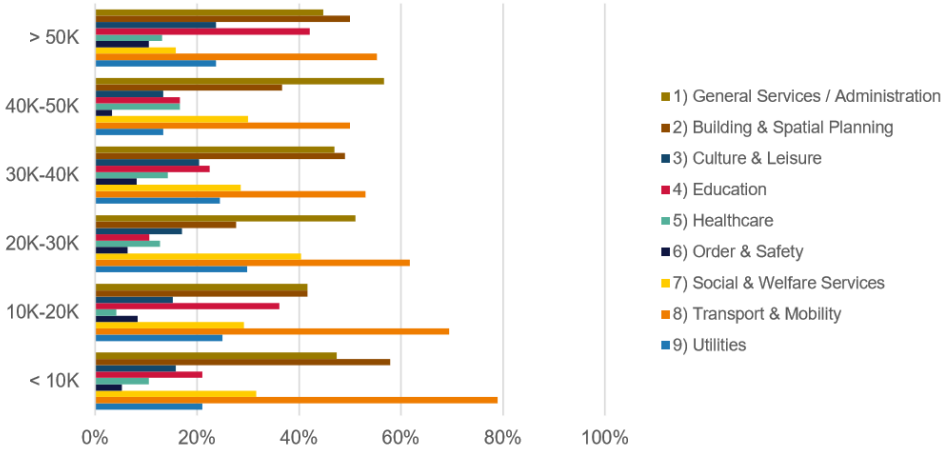
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



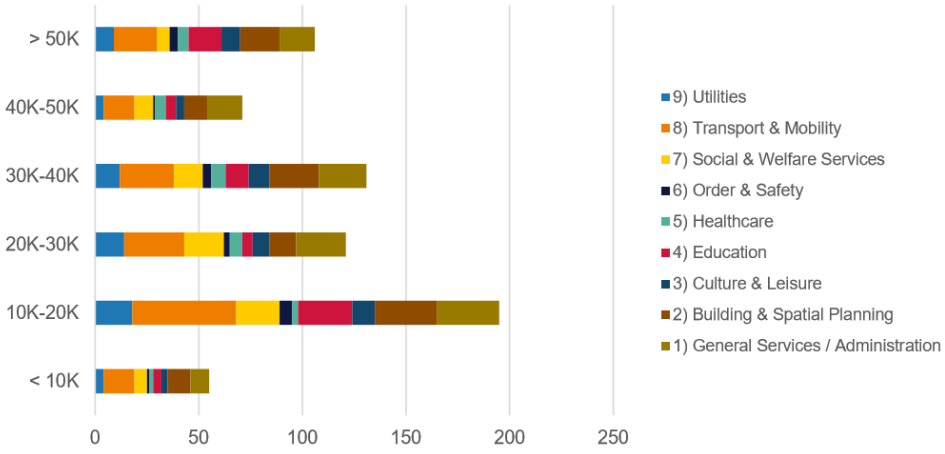
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



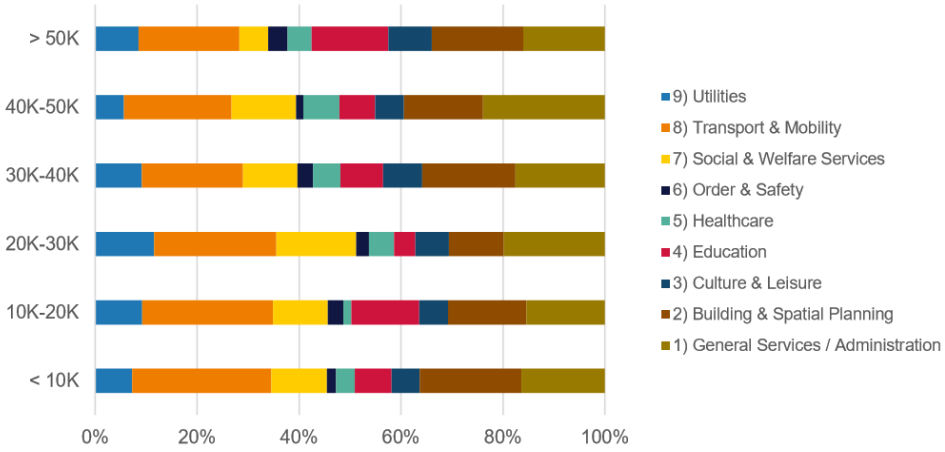
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



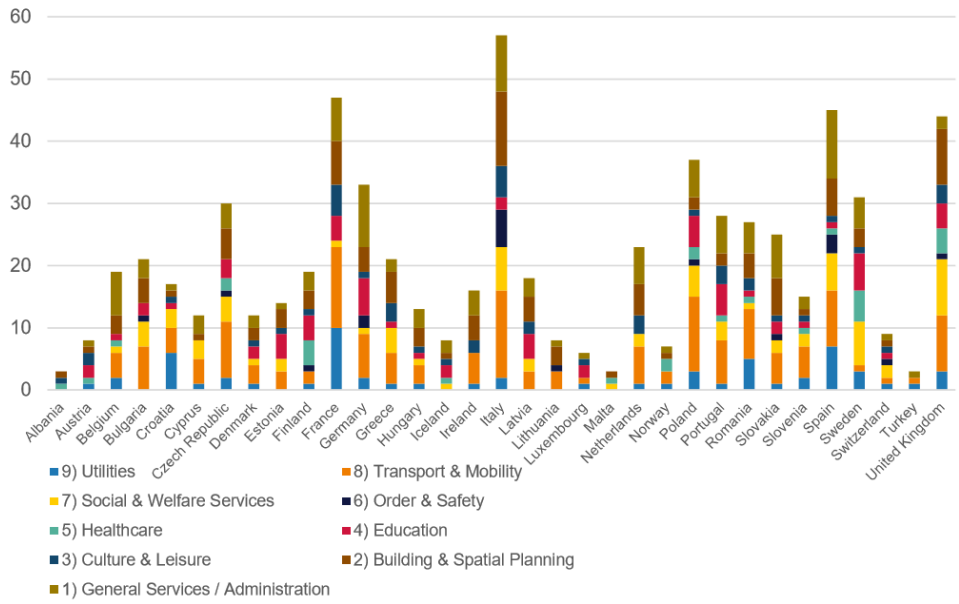
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



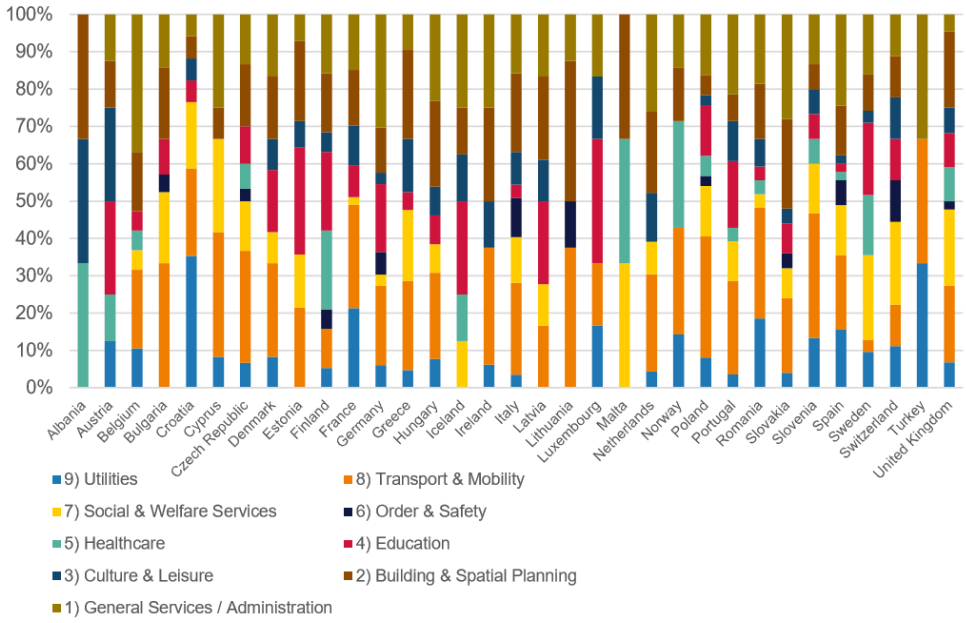
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?

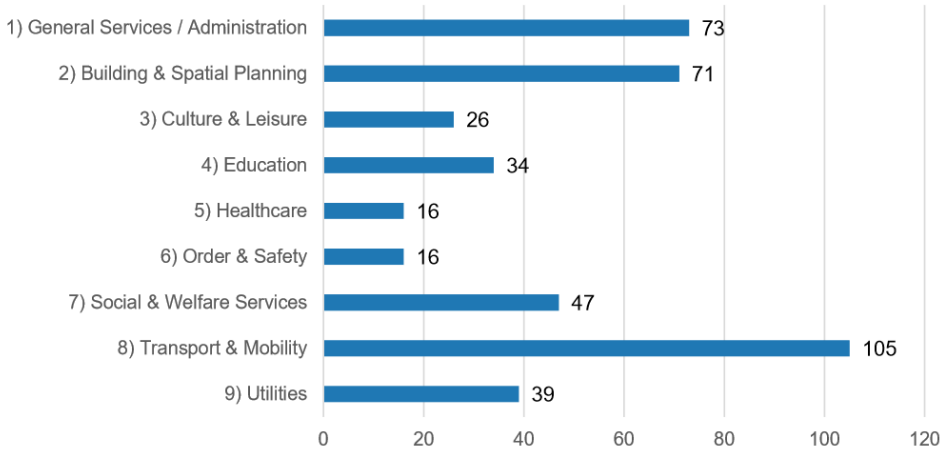
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) General Services / Administration	73	47%
2) Building & Spatial Planning	71	46%
3) Culture & Leisure	26	17%
4) Education	34	22%
5) Healthcare	16	10%
6) Order & Safety	16	10%
7) Social & Welfare Services	47	30%
8) Transport & Mobility	105	68%
9) Utilities	39	25%

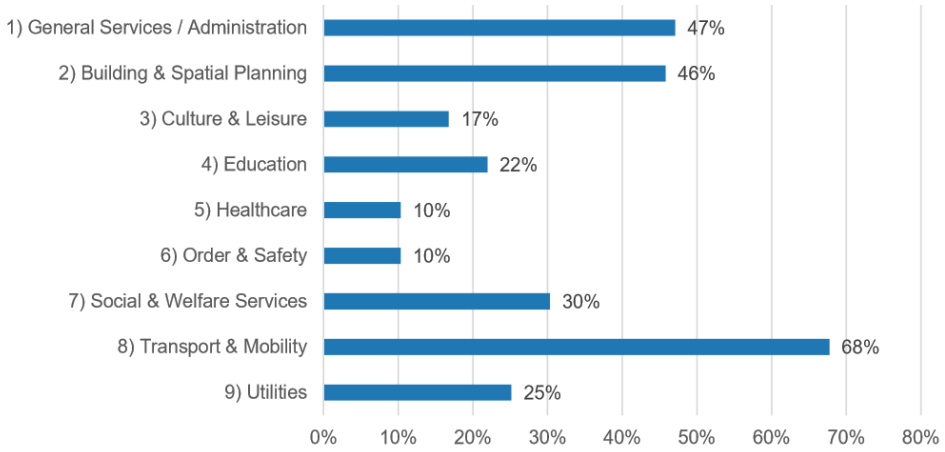
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



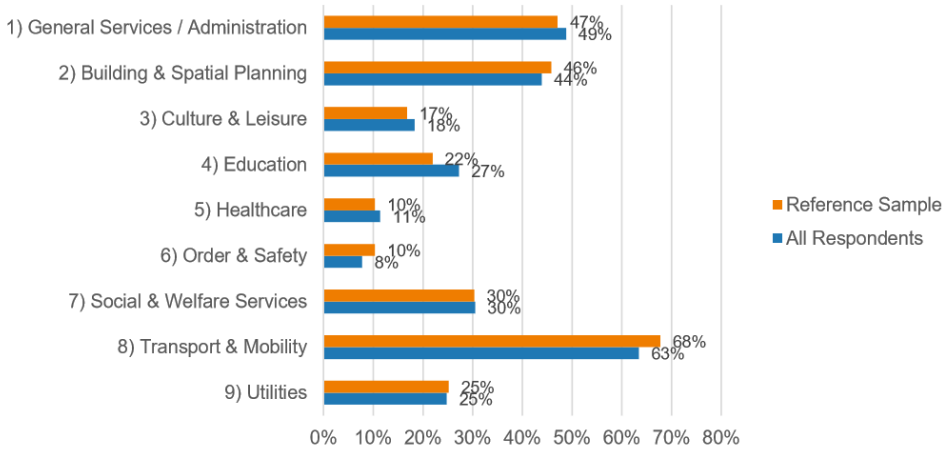
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



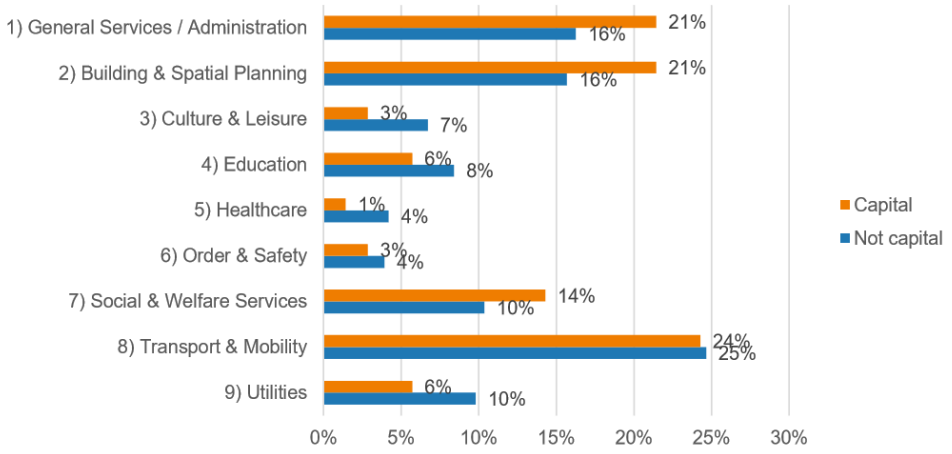
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



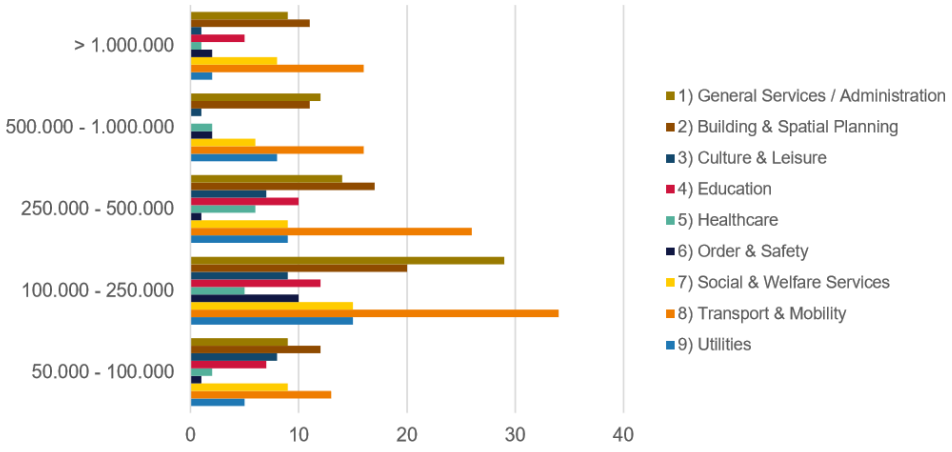
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

3.3 Which are the top 3 service areas particularly active in competitive funding calls (e.g. EU or national funding)?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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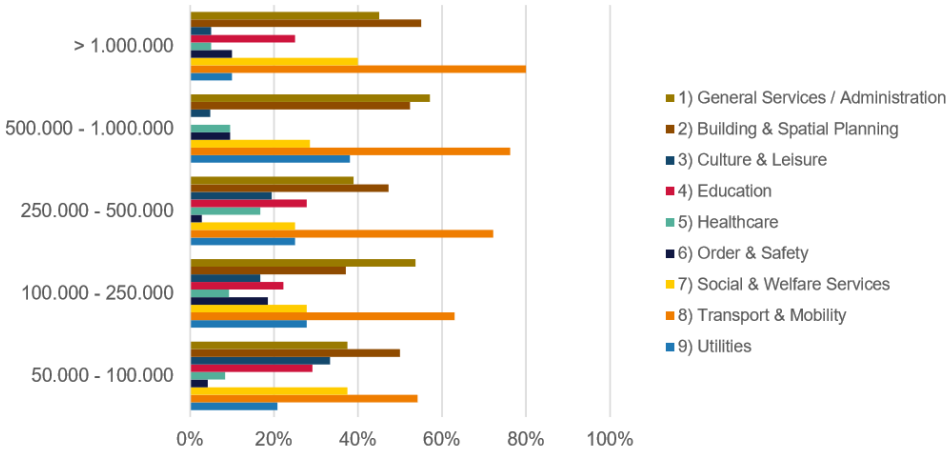

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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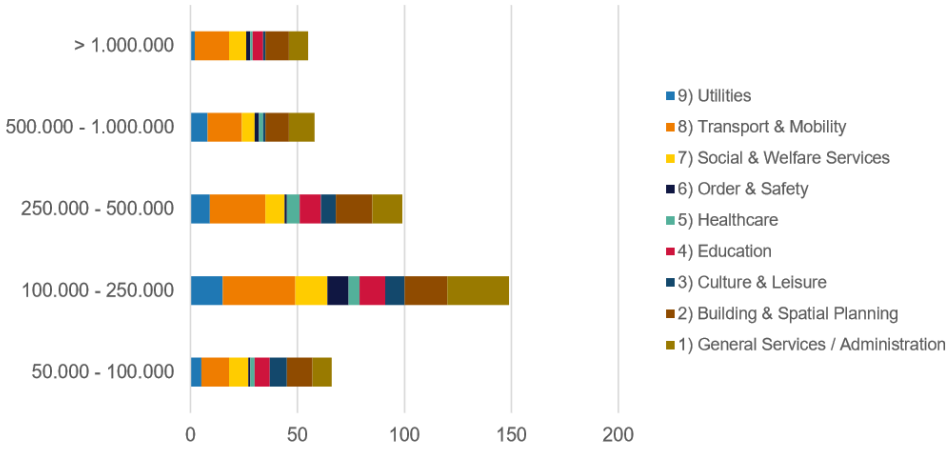

Question type	Data sample	Cluster	Value
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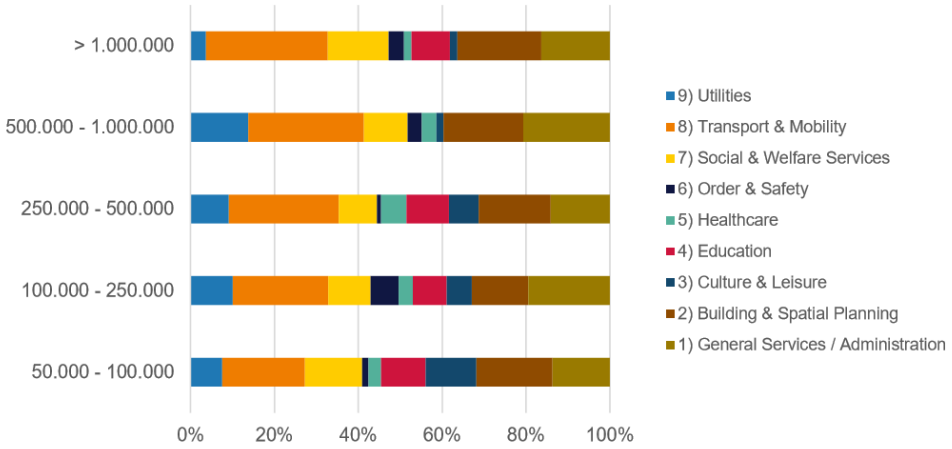

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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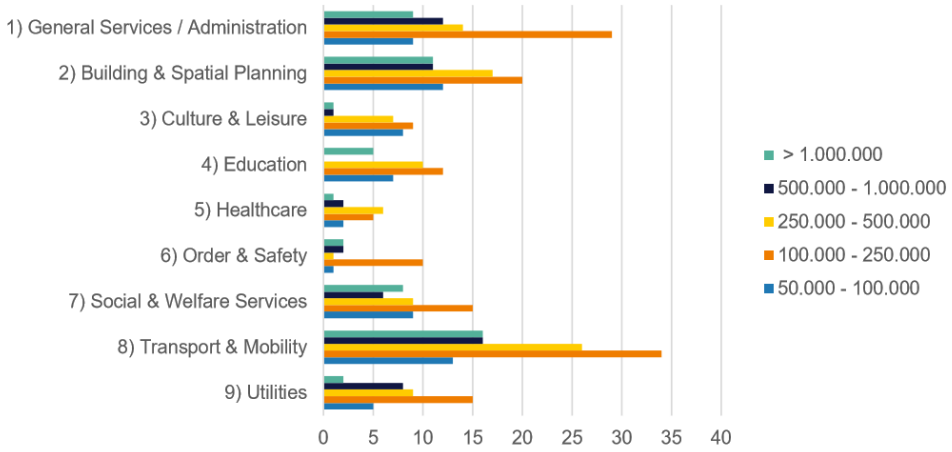

Question type	Data sample	Cluster	Value
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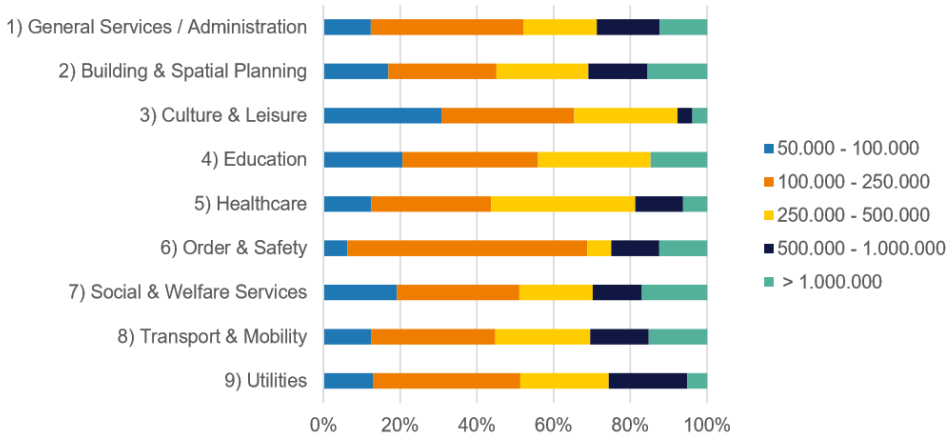
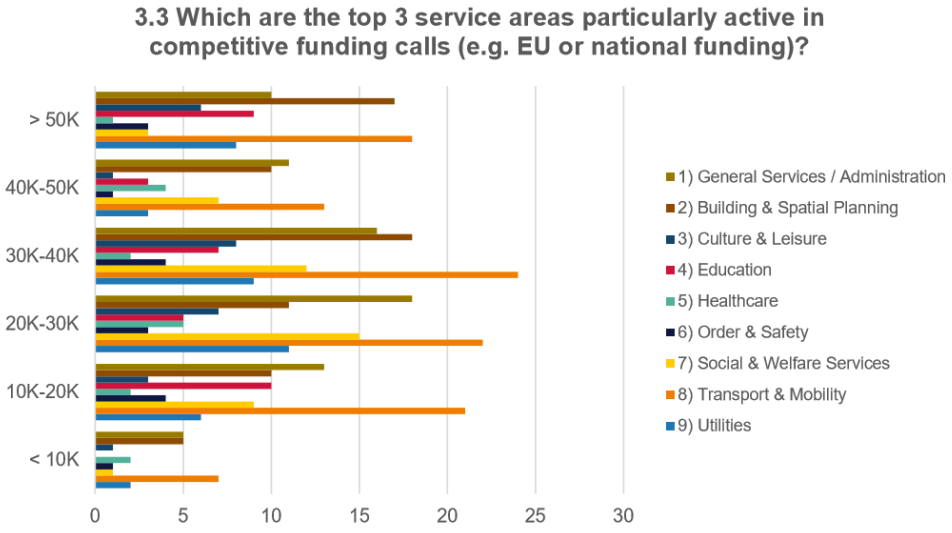


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

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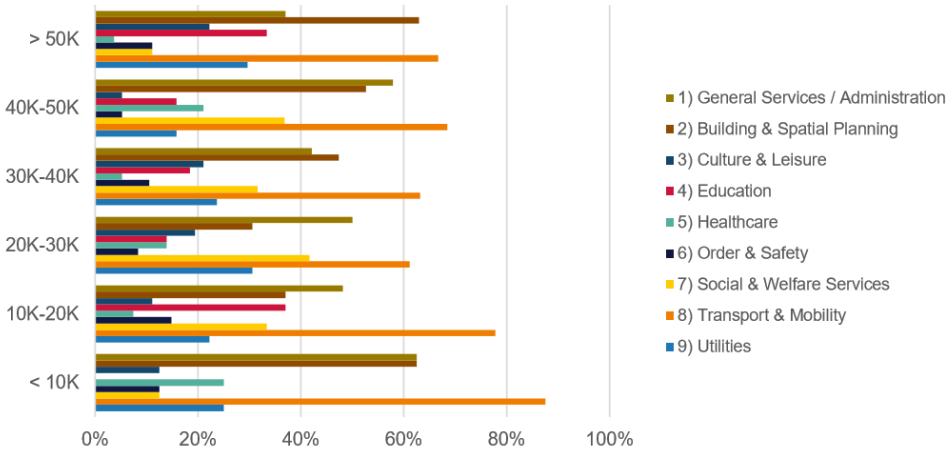
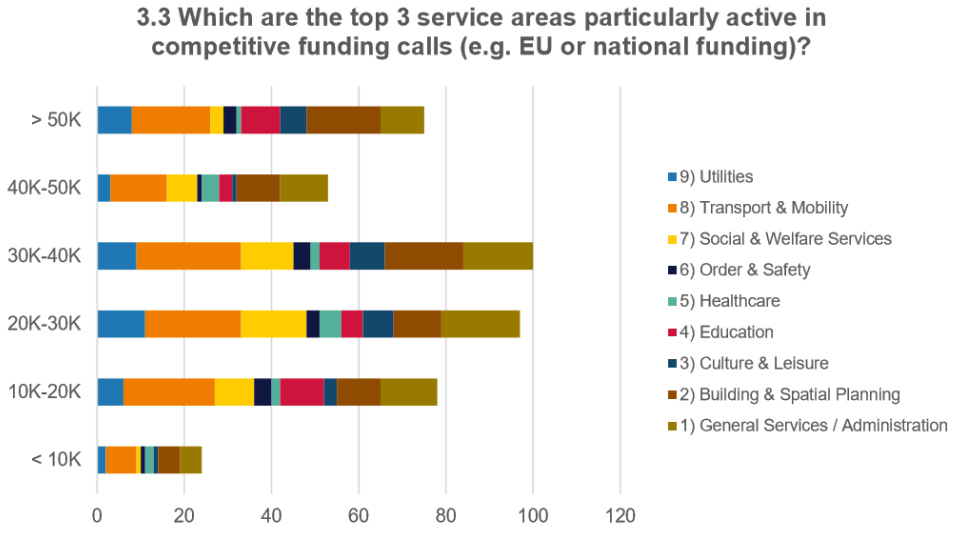


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

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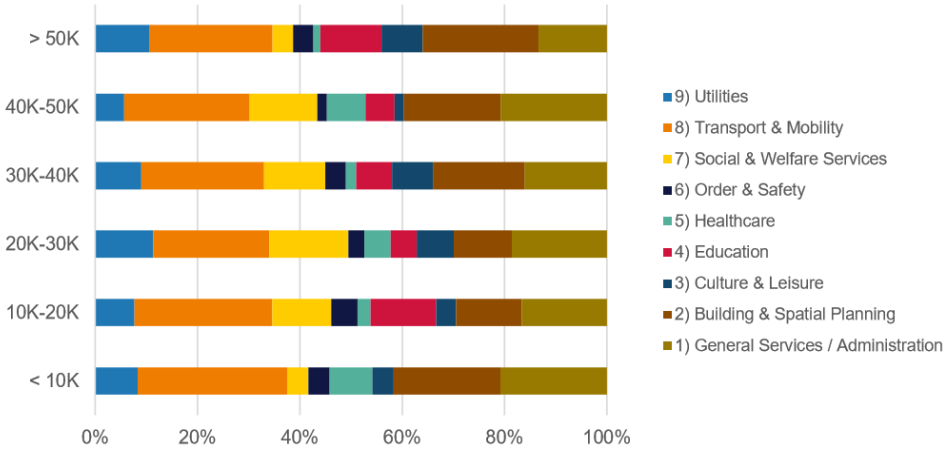

Question type	Data sample	Cluster	Value
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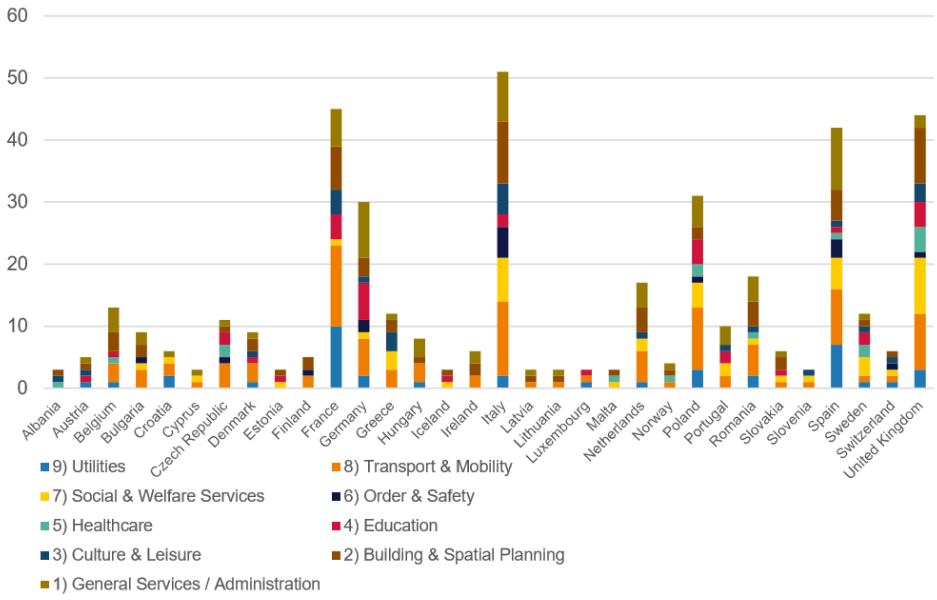

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

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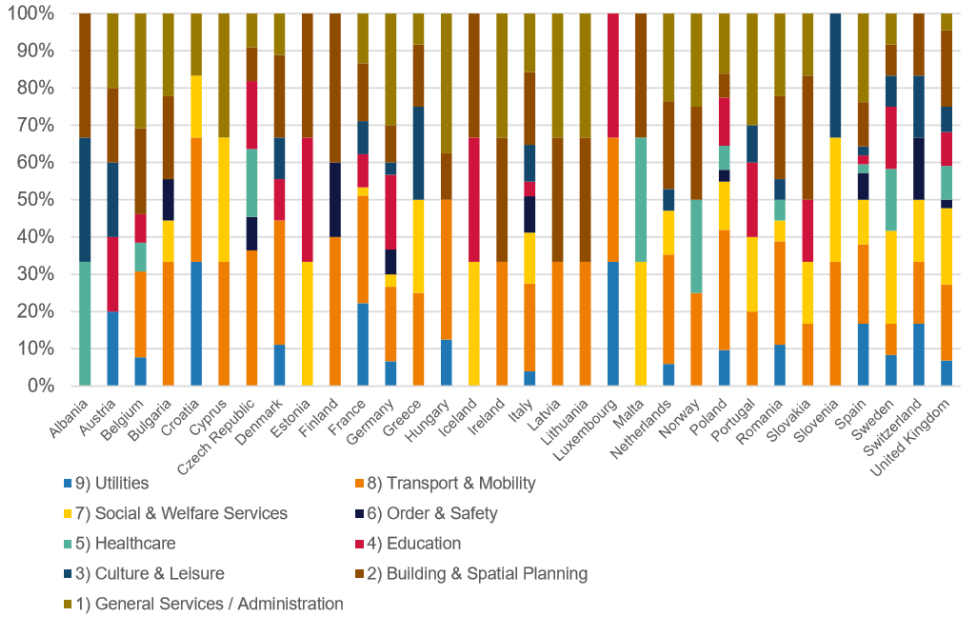


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.12 Q_3.4 Does your public authority have or use an e-procurement platform?

3.4 Does your public authority have or use an e-procurement platform?

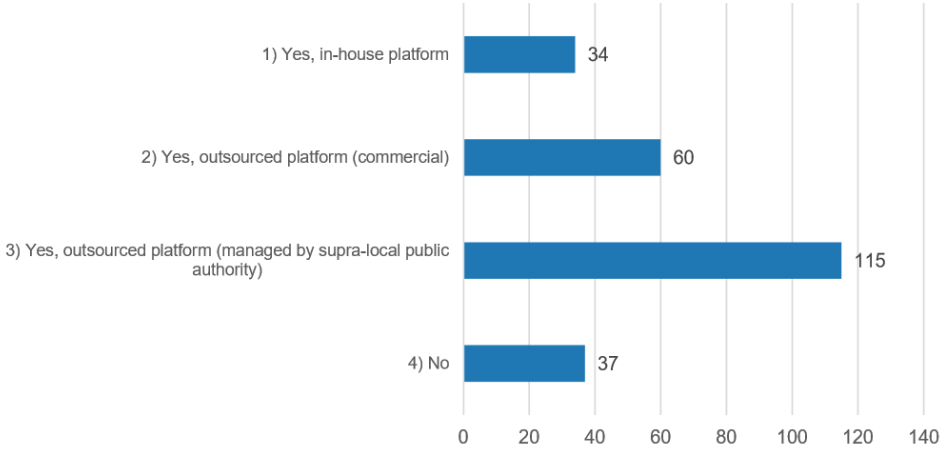
ALL RESPONDENTS

Question type:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) Yes, in-house platform	34	14%
2) Yes, outsourced platform (commercial)	60	24%
3) Yes, outsourced platform (managed by supra-local public authority)	115	47%
4) No	37	15%

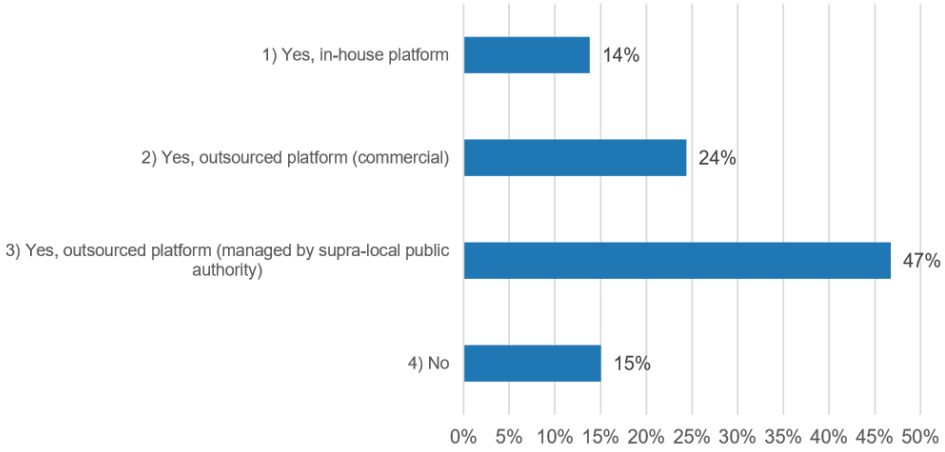
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.4 Does your public authority have or use an e-procurement platform?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

3.4 Does your public authority have or use an e-procurement platform?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

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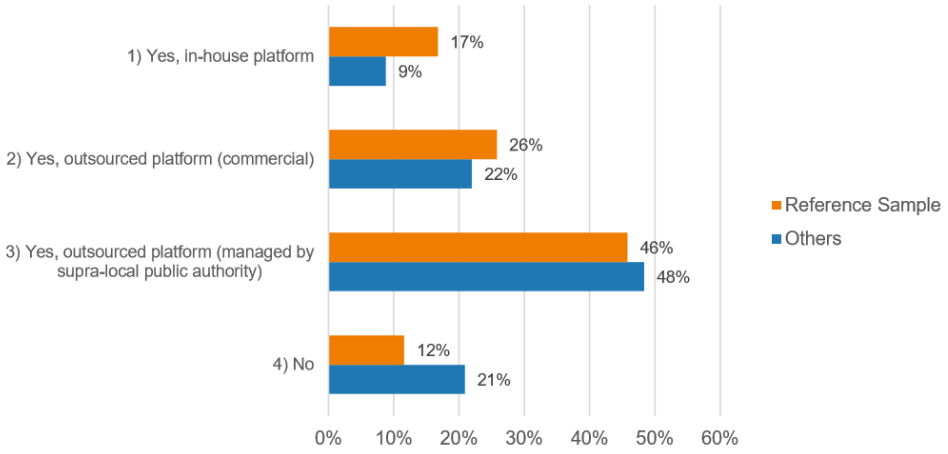

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

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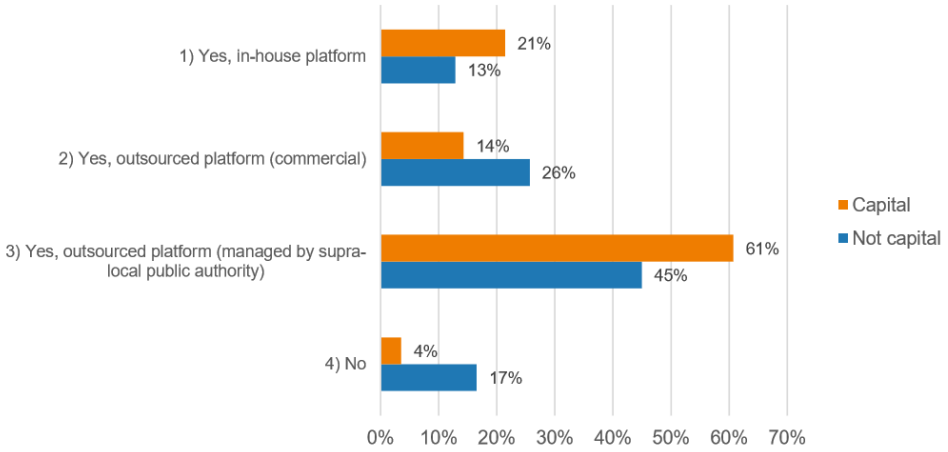
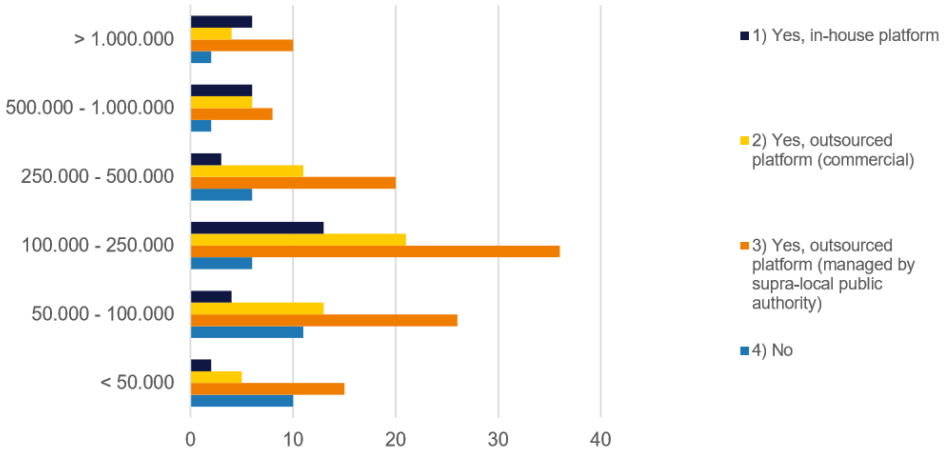


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

3.4 Does your public authority have or use an e-procurement platform?



Question type	Data sample	Cluster	Value
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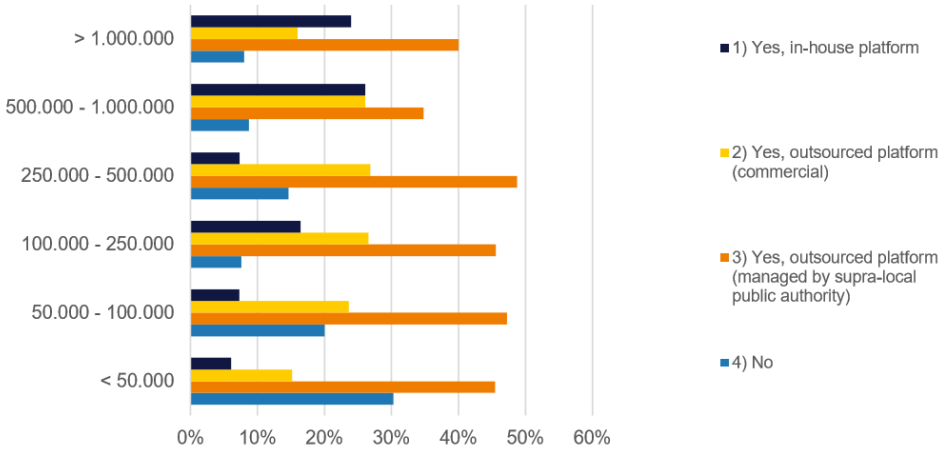

Question type	Data sample	Cluster	Value
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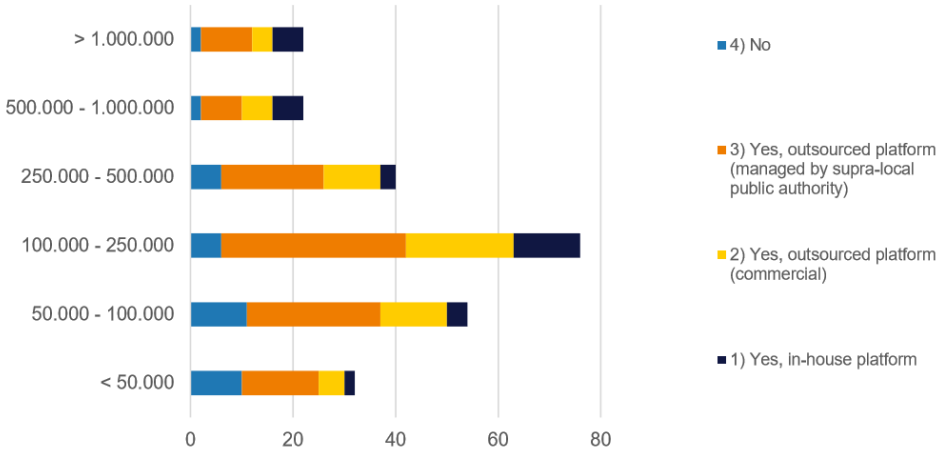

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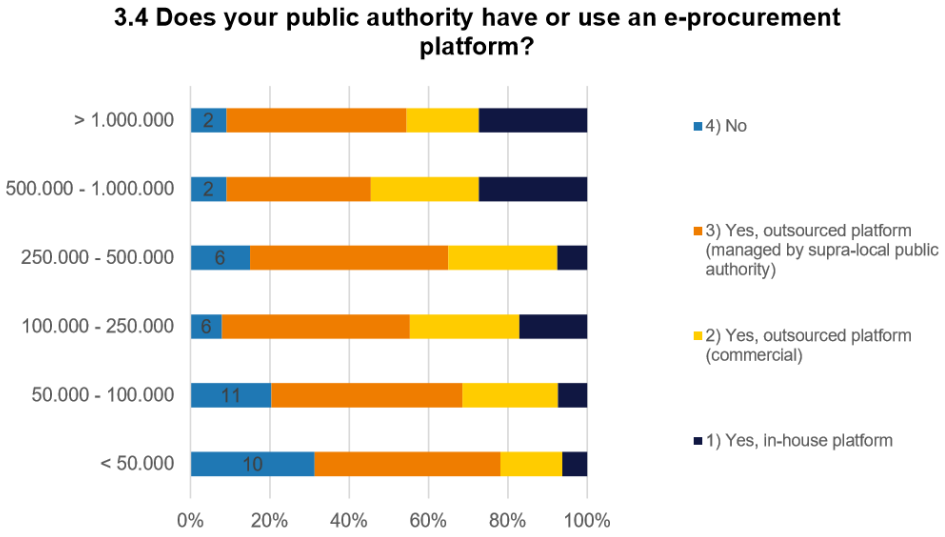
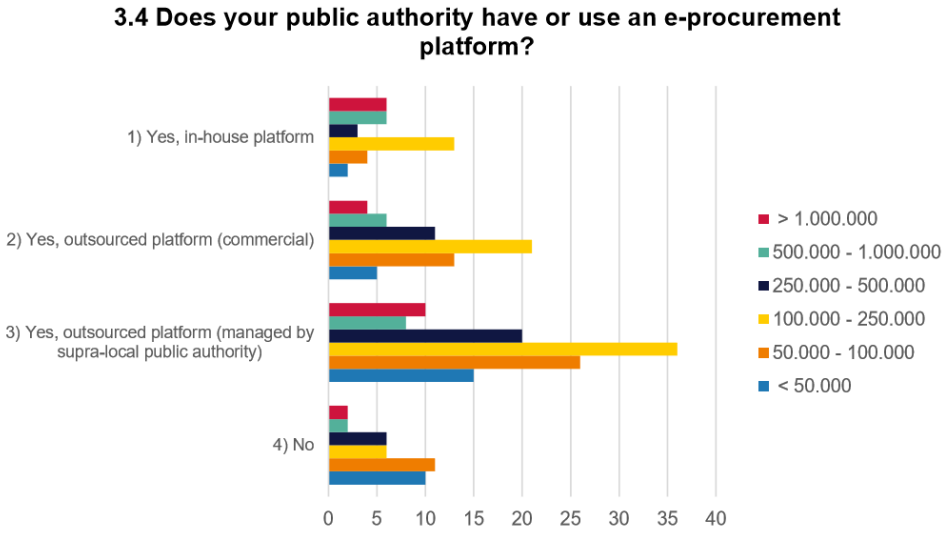


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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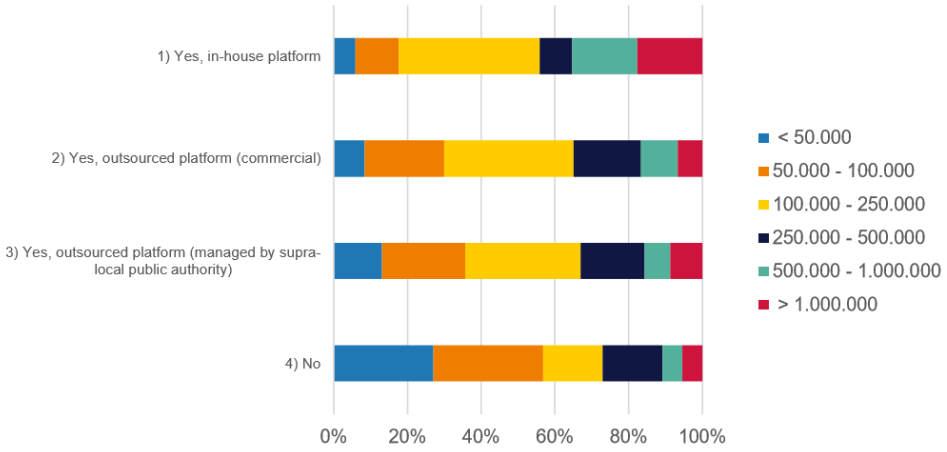
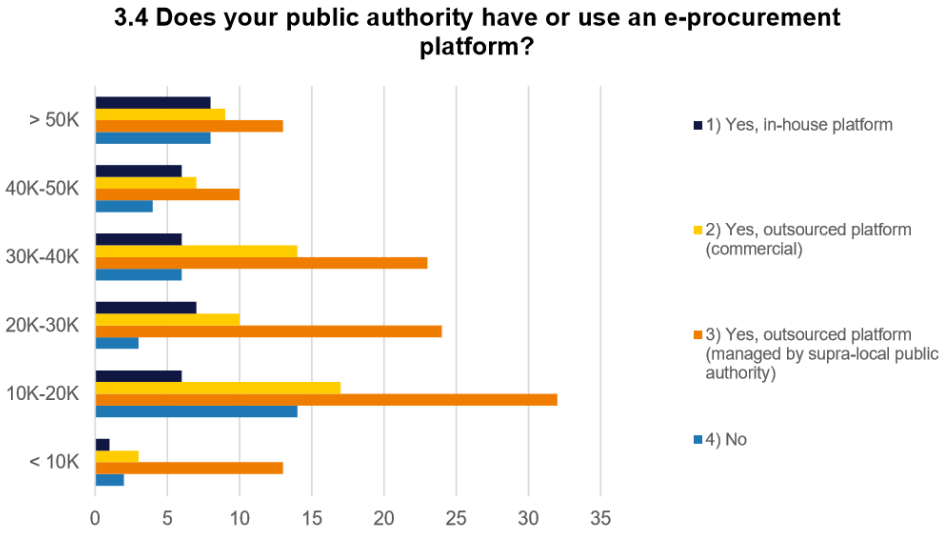


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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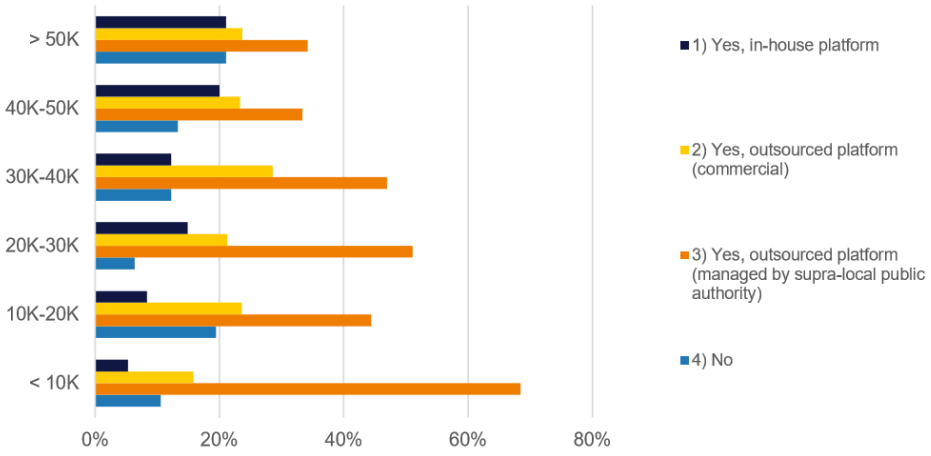
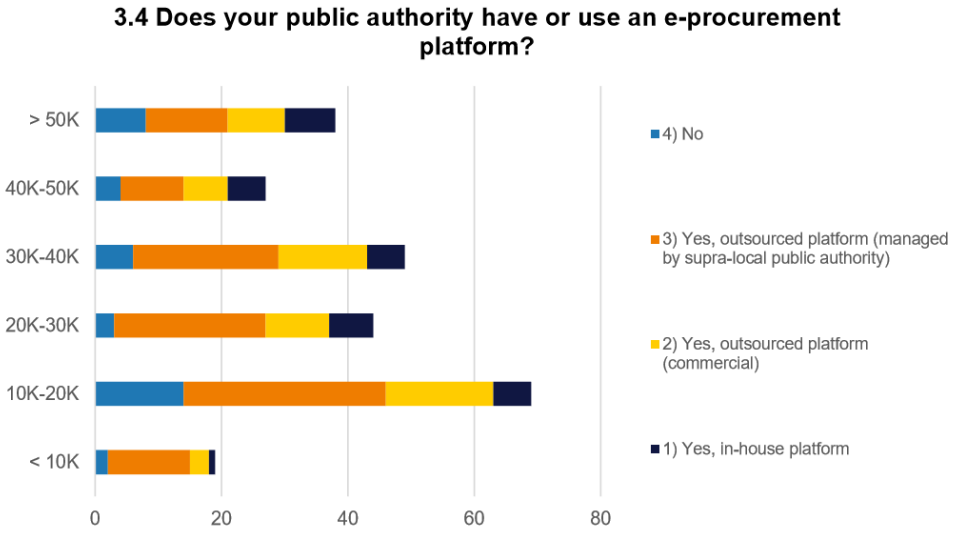


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
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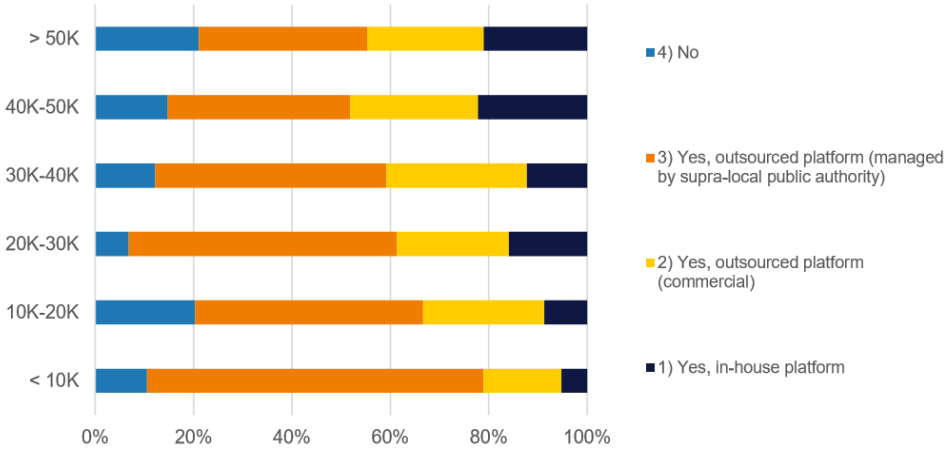
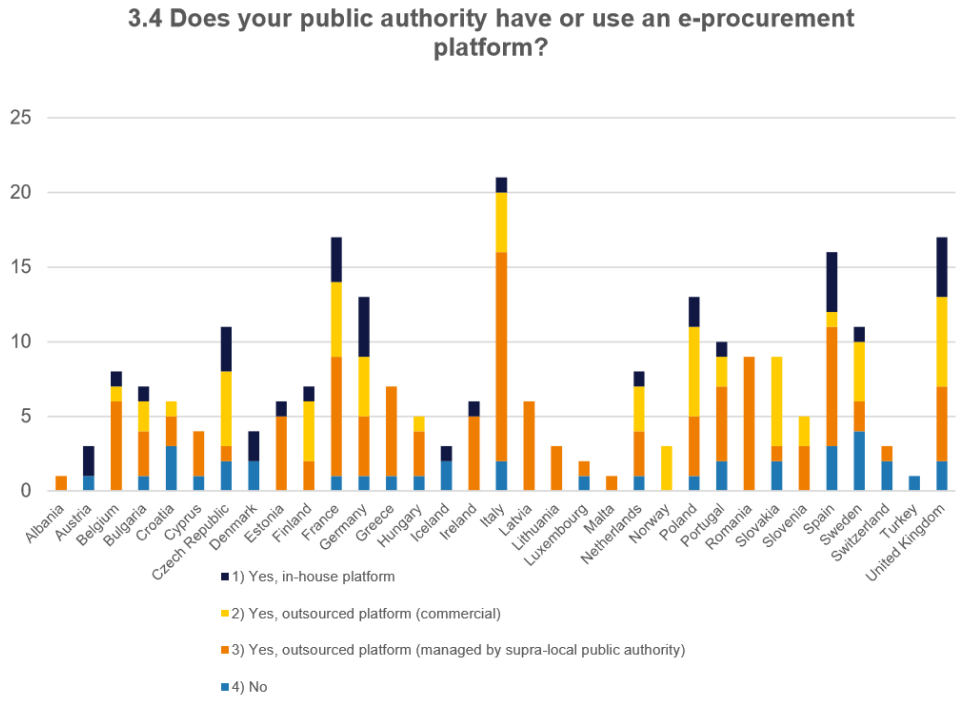


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
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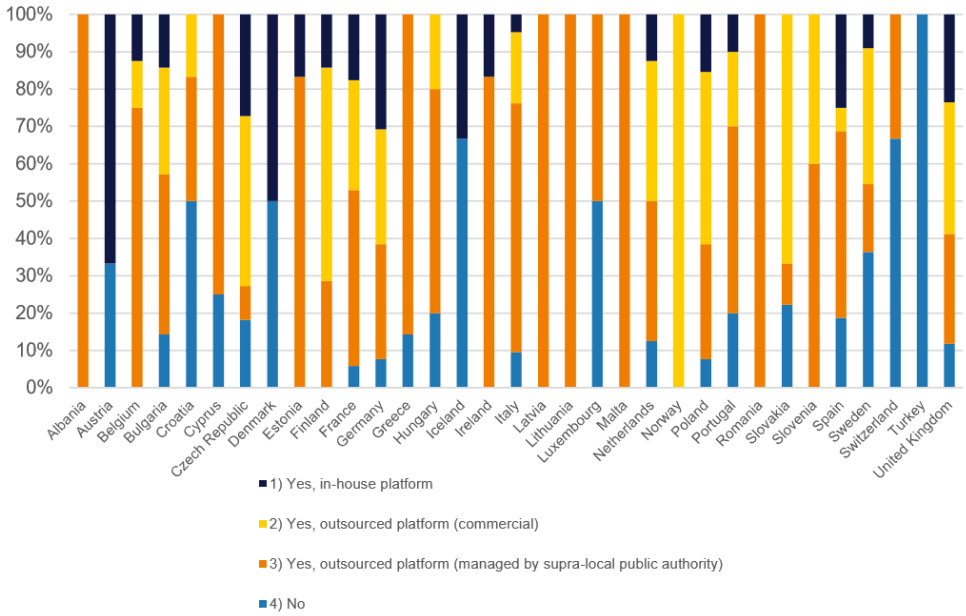


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

3.4 Does your public authority have or use an e-procurement platform?

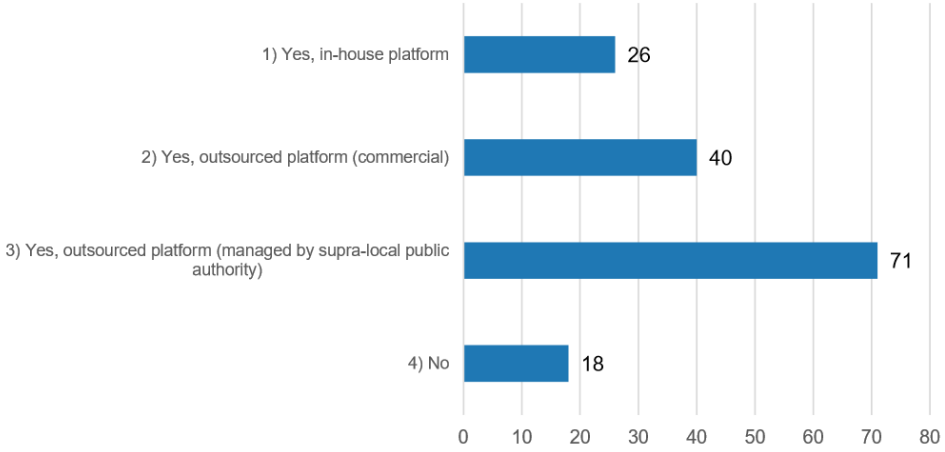
REFERENCE SAMPLE

Question type:	***Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes, in-house platform	26	17%
2) Yes, outsourced platform (commercial)	40	26%
3) Yes, outsourced platform (managed by supra-local public authority)	71	46%
4) No	18	12%

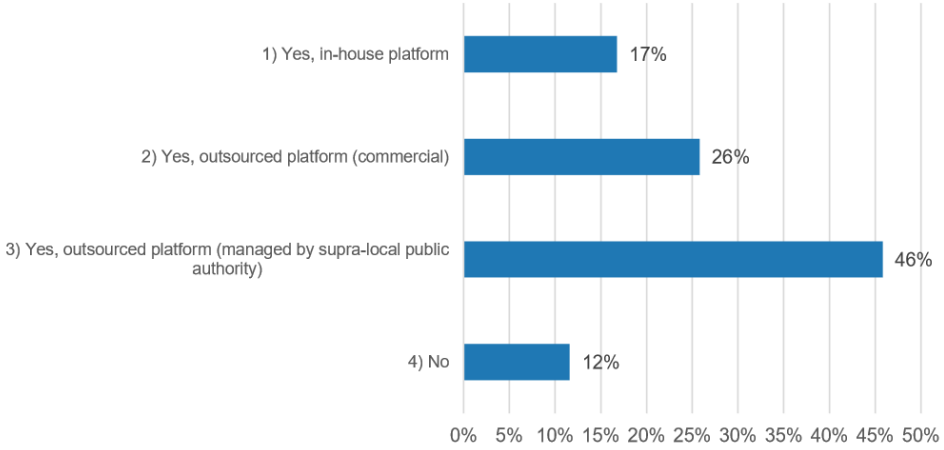
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.4 Does your public authority have or use an e-procurement platform?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

3.4 Does your public authority have or use an e-procurement platform?



Question type	Data sample	Cluster	Value
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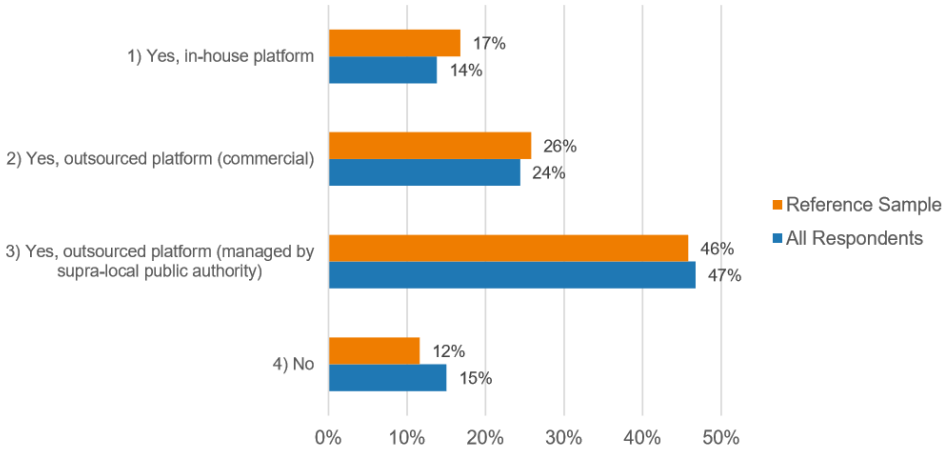

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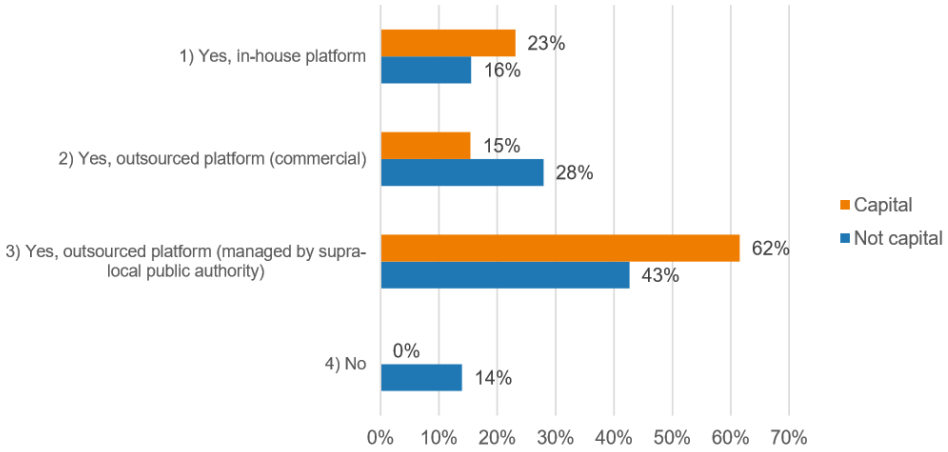

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

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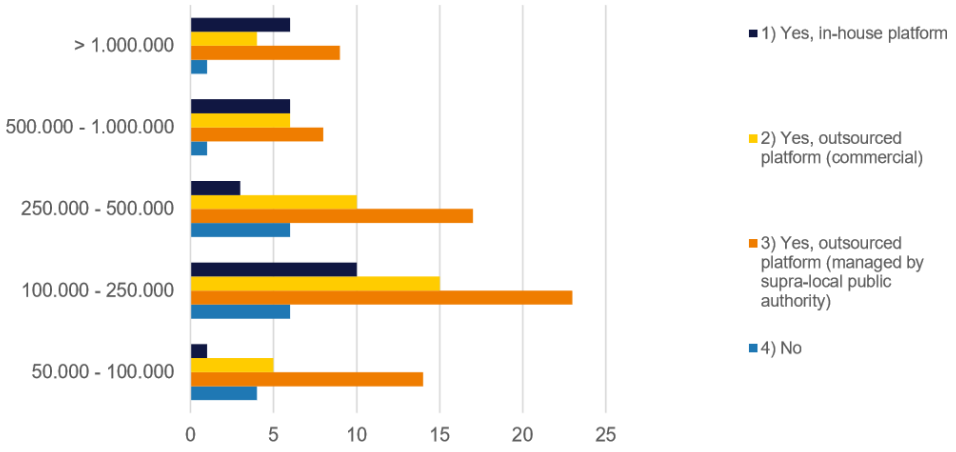

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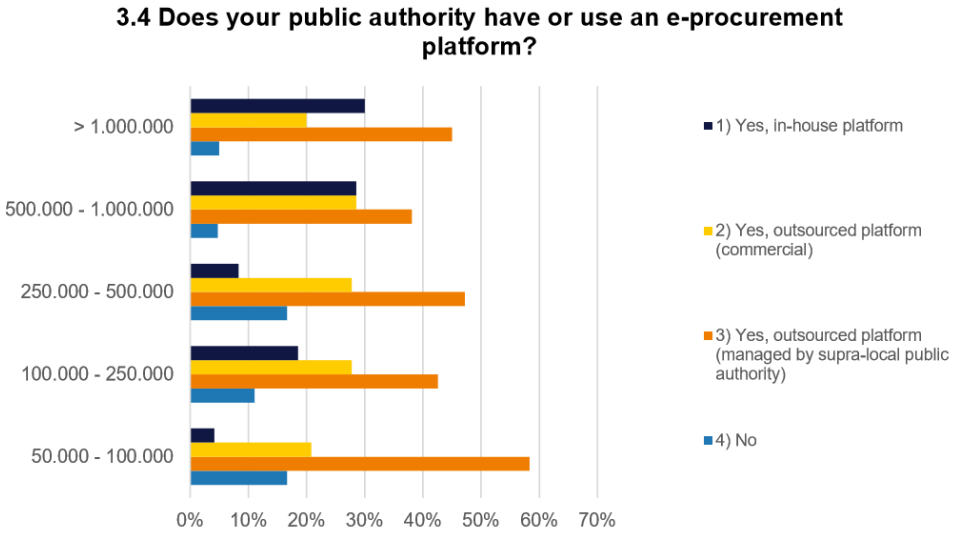

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Single choice	Reference Sample	Population	Percentage

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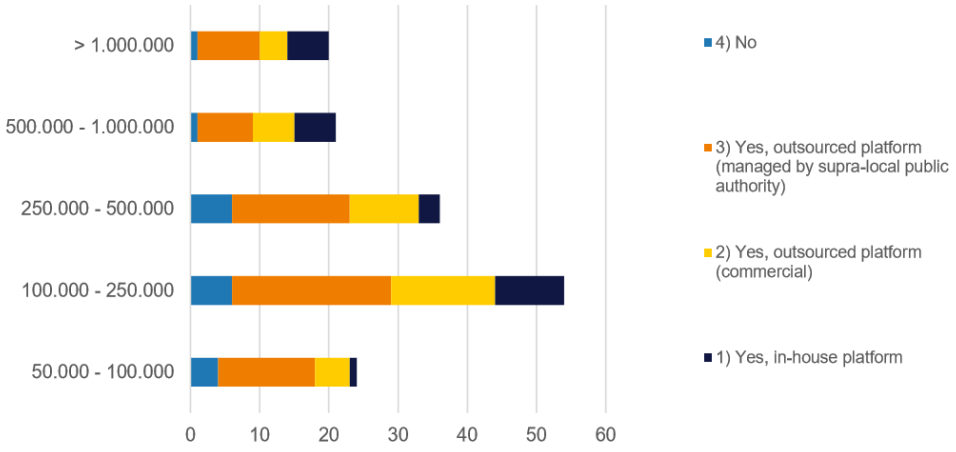
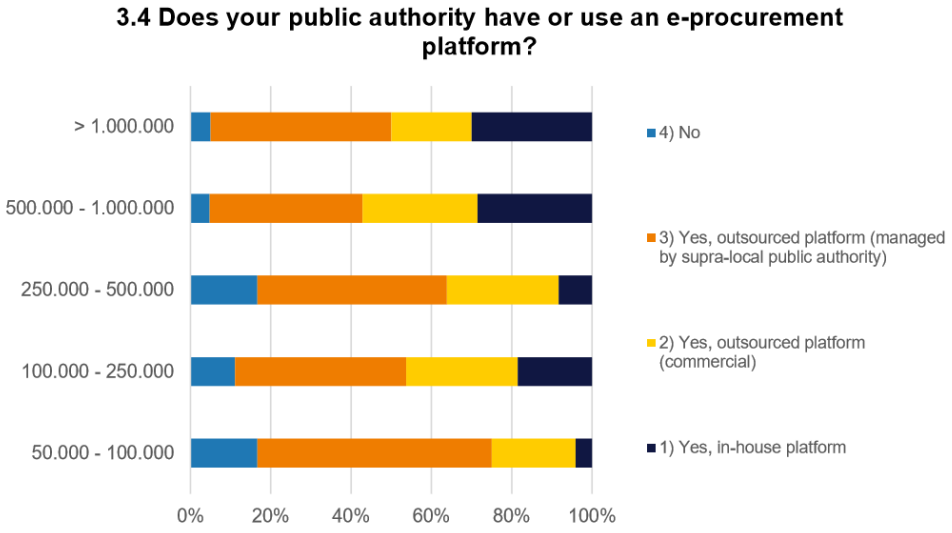


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count



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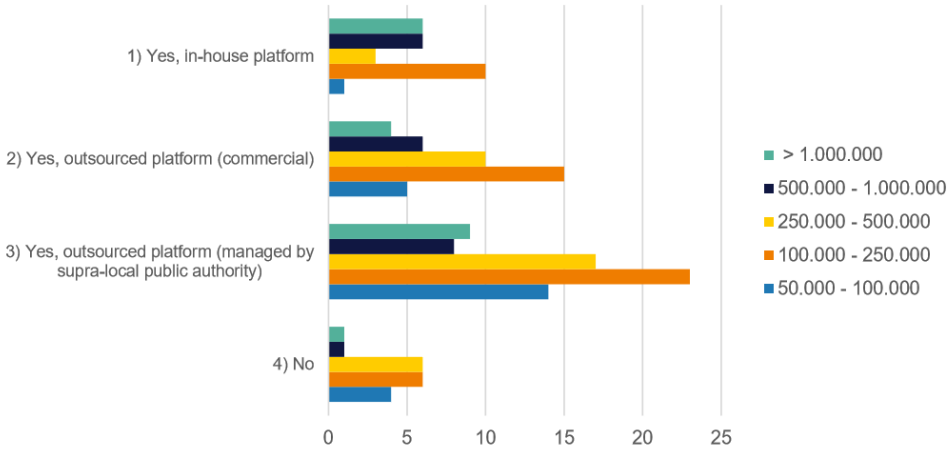

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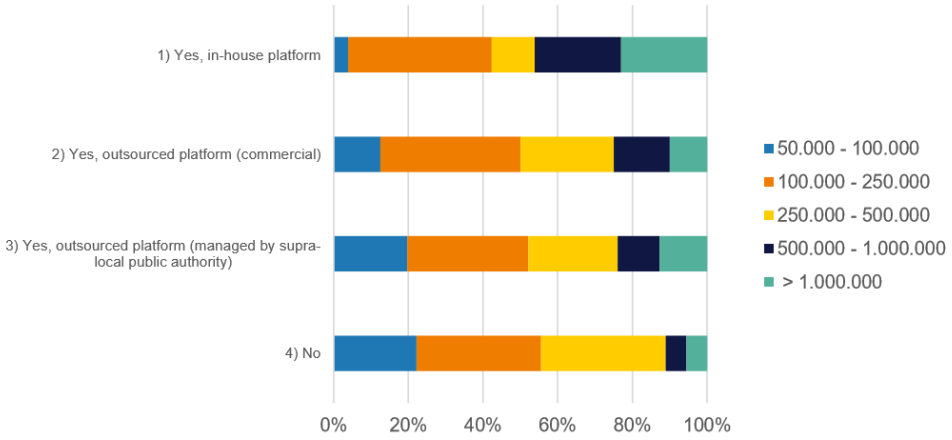
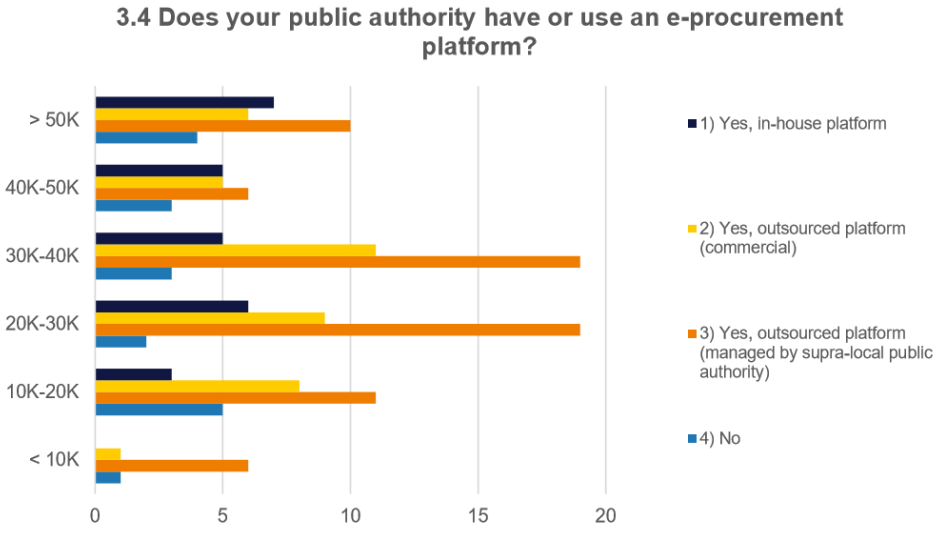
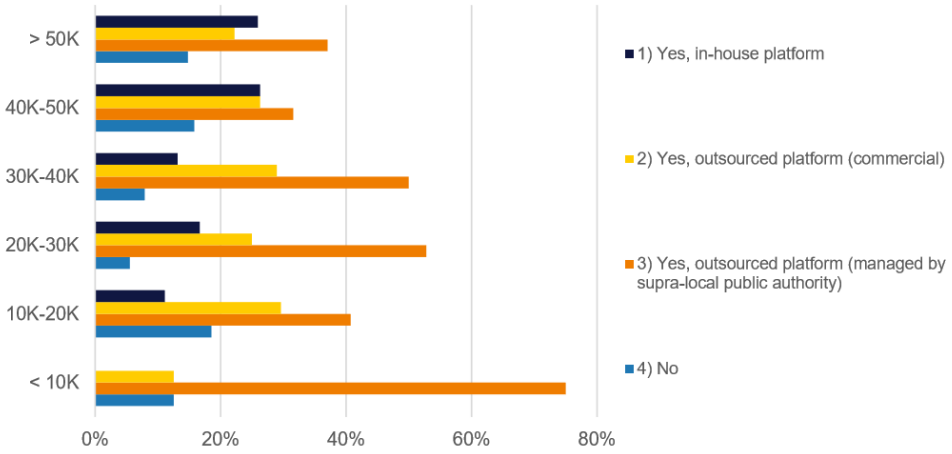


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

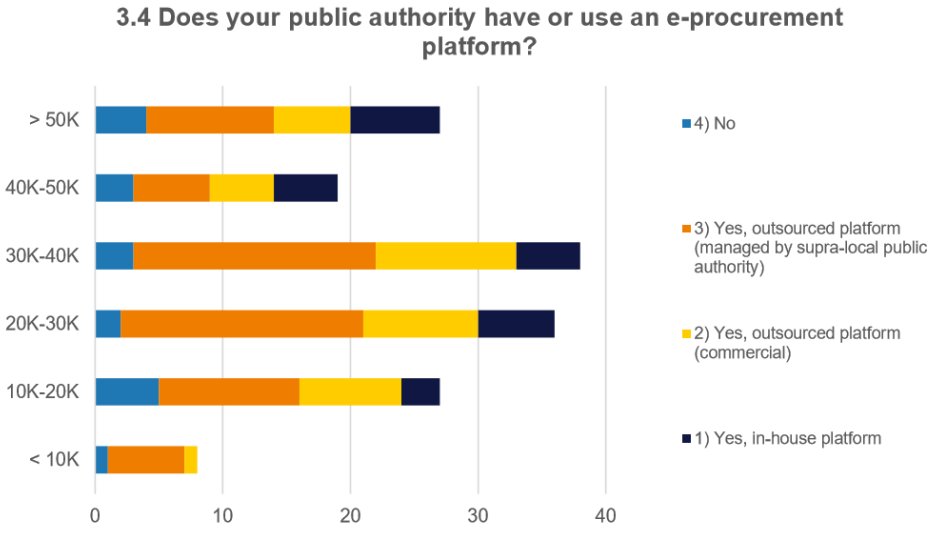


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

3.4 Does your public authority have or use an e-procurement platform?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
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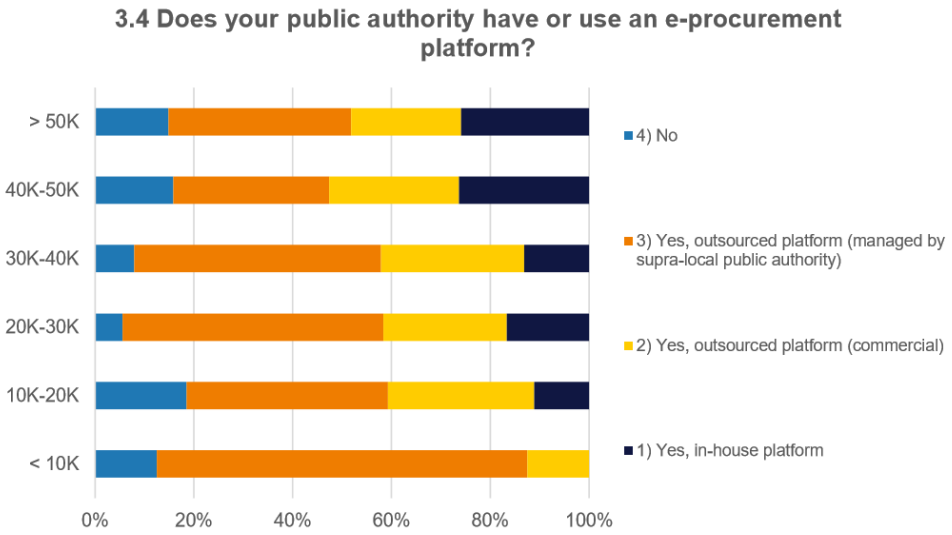

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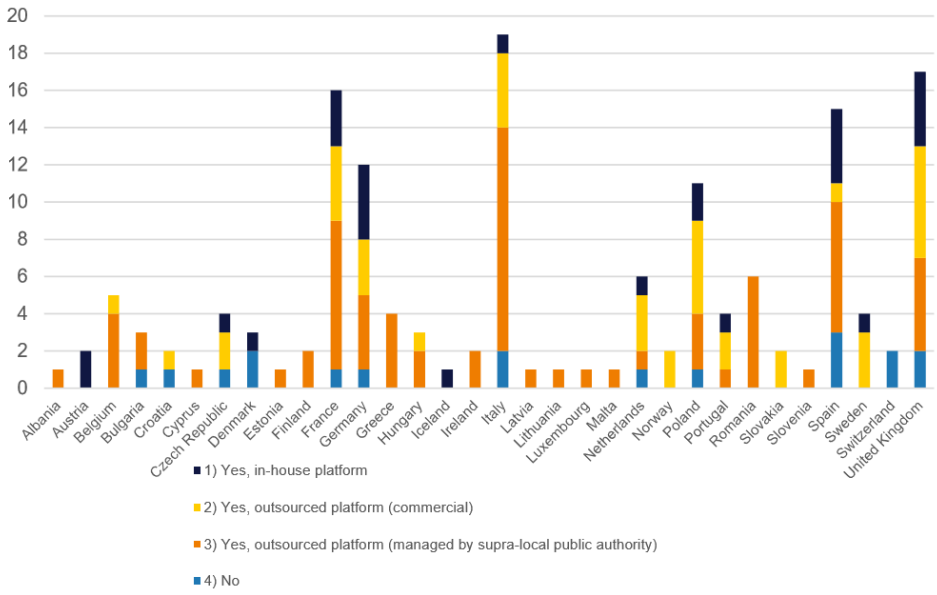
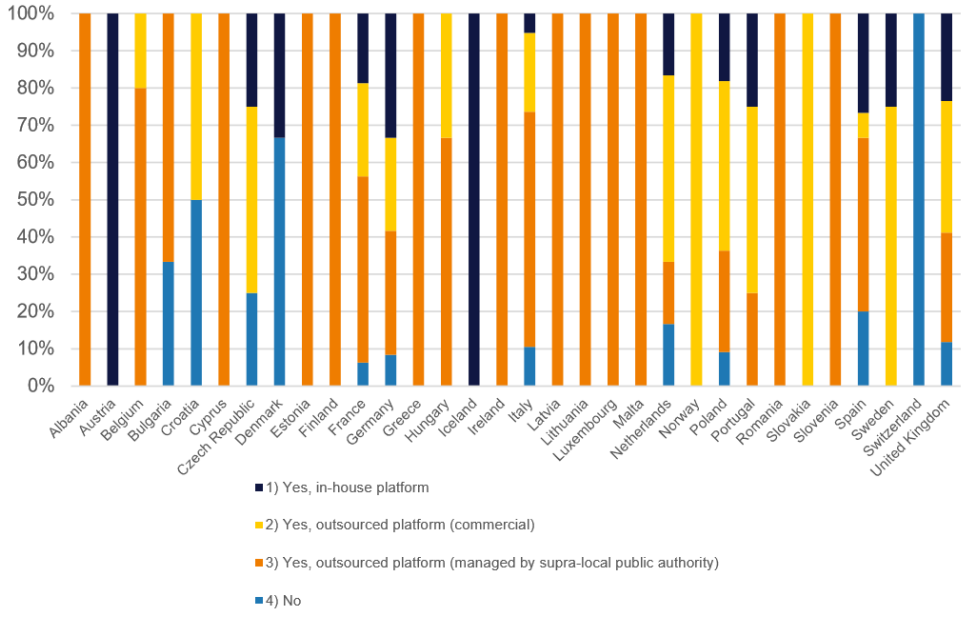


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count

3.4 Does your public authority have or use an e-procurement platform?



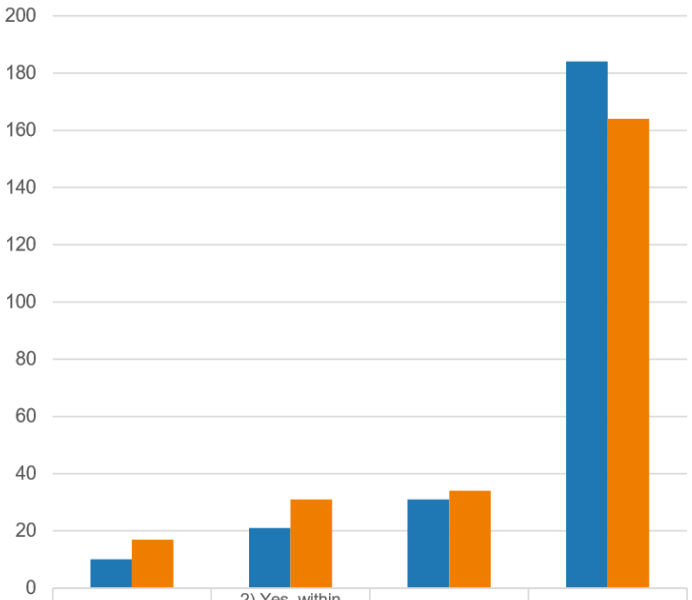
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.13 Q_3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?

ALL RESPONDENTS

Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**



	1) Yes, within EU funding schemes	2) Yes, within national/regional funding schemes	3) Yes, with own resources	4) No
Pre-Commercial Procurement (PCP)	10	21	31	184
Public Procurement of Innovative Solutions (PPI)	17	31	34	164

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?

ALL RESPONDENTS

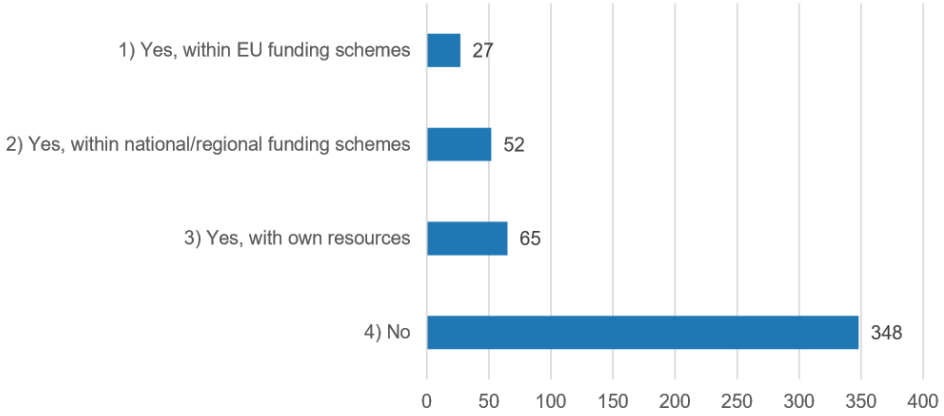
Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Yes, within EU funding schemes	27	4%
2) Yes, within national/regional funding schemes	52	7%
3) Yes, with own resources	65	9%
4) No	348	47%

* The Count is given by the sum of all the selected rows within the same matrix column

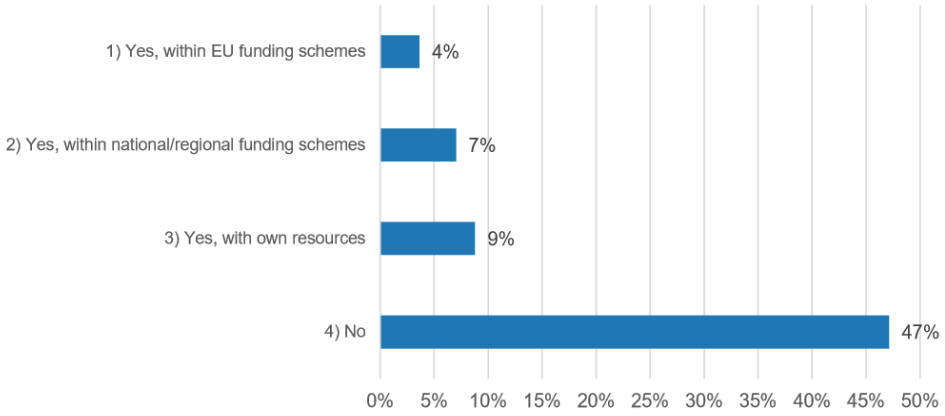
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



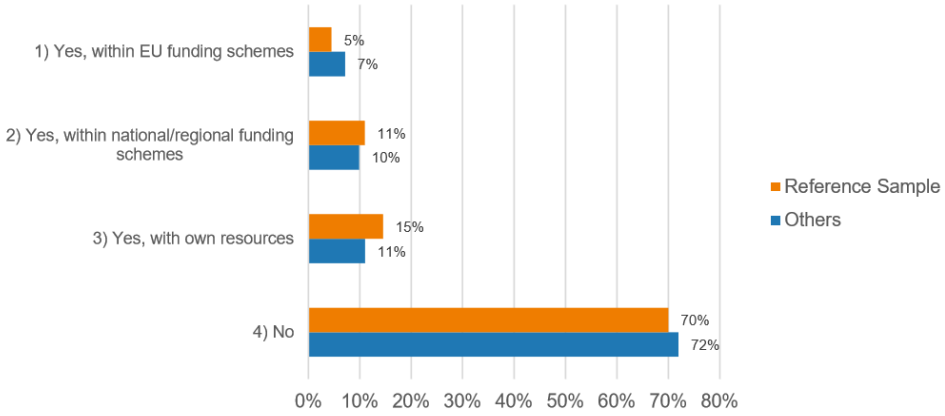
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	-	Count

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



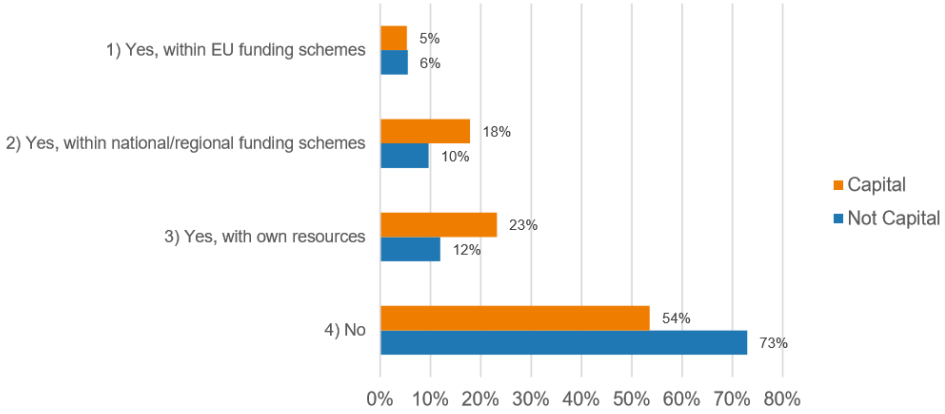
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	-	Percentage

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



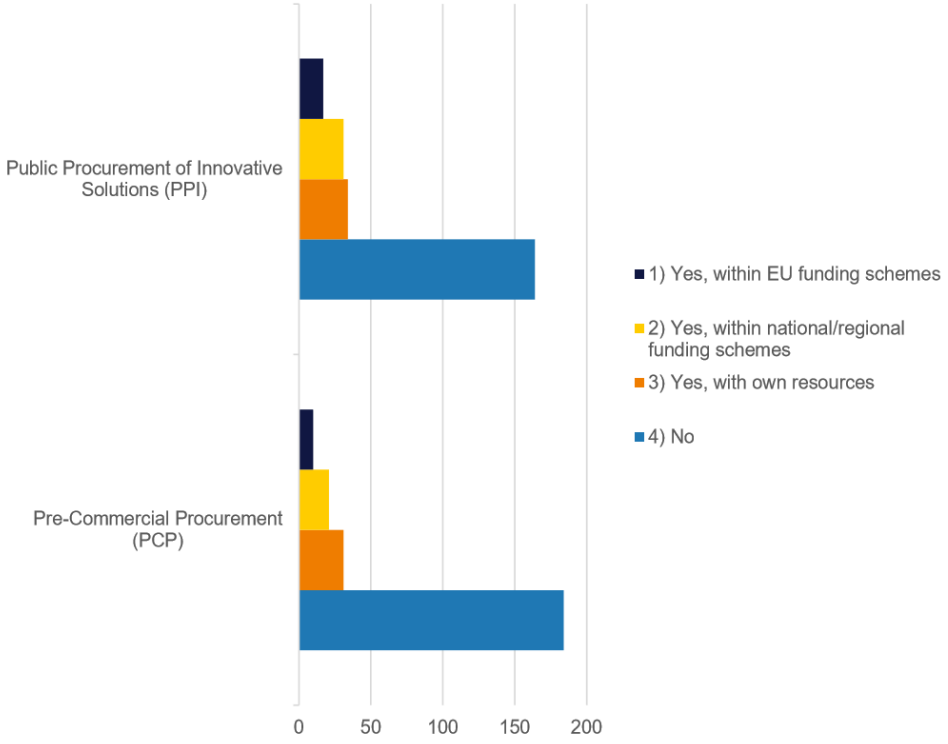
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Reference Sample	Percentage

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



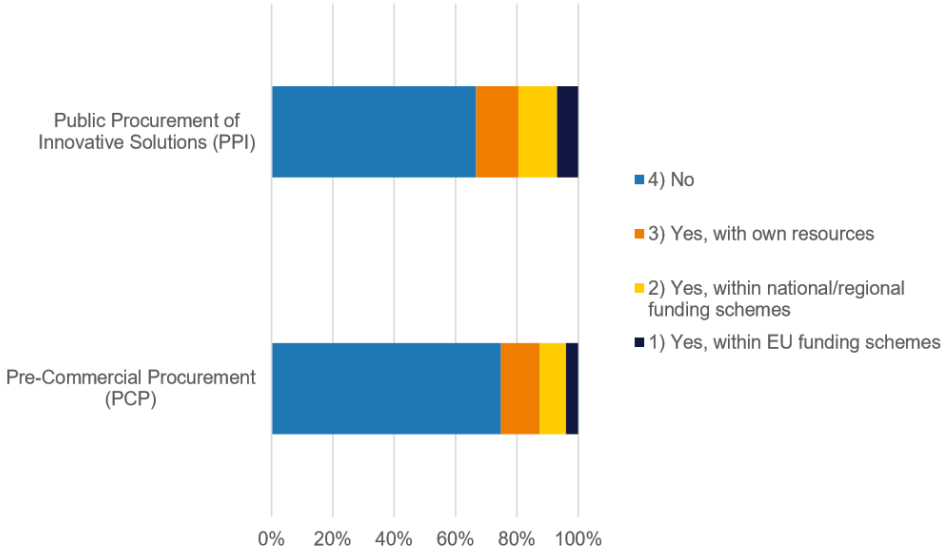
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Capital cities	Percentage

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Count

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Percentage

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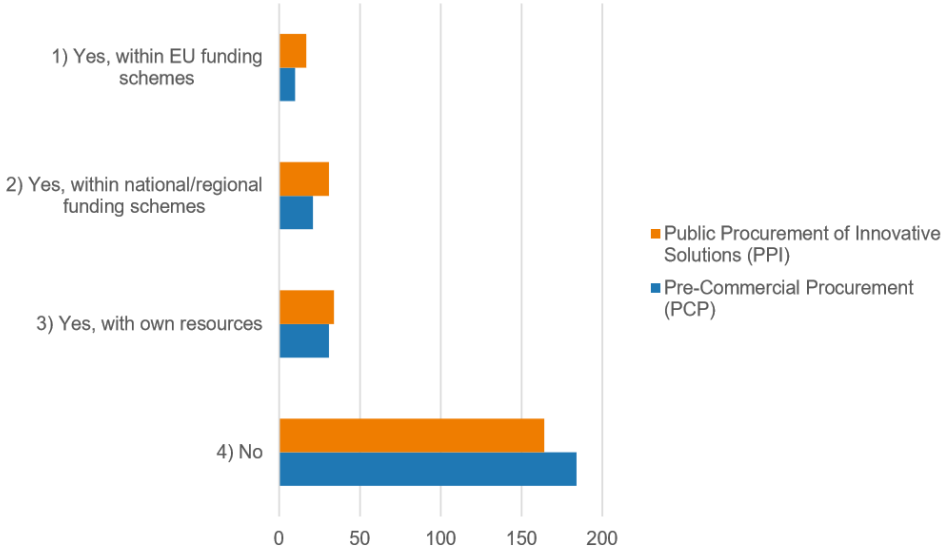
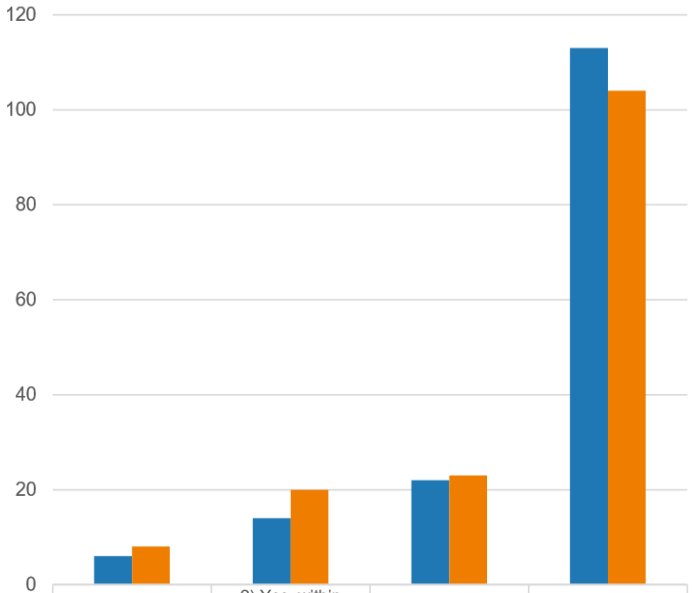


Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Count

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?

REFERENCE SAMPLE

Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**



	1) Yes, within EU funding schemes	2) Yes, within national/regional funding schemes	3) Yes, with own resources	4) No
Pre-Commercial Procurement (PCP)	6	14	22	113
Public Procurement of Innovative Solutions (PPI)	8	20	23	104

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?

REFERENCE SAMPLE

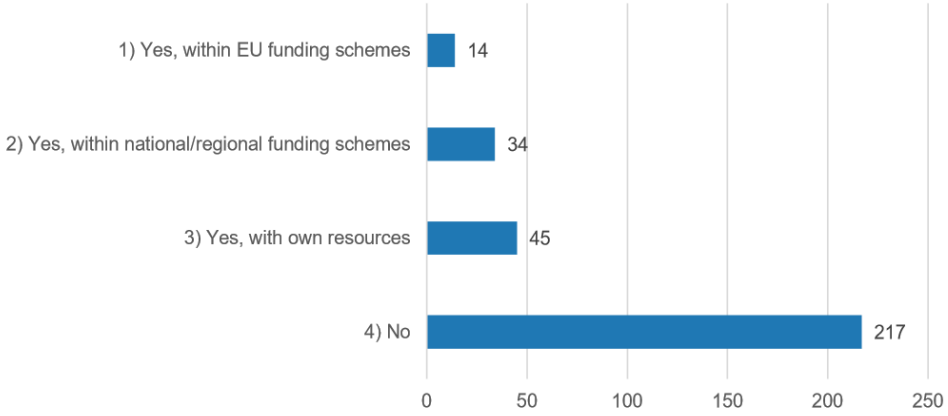
Question typology: ***Matrix - Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Yes, within EU funding schemes	14	5%
2) Yes, within national/regional funding schemes	34	11%
3) Yes, with own resources	45	15%
4) No	217	70%

* The Count is given by the sum of all the selected rows within the same matrix column

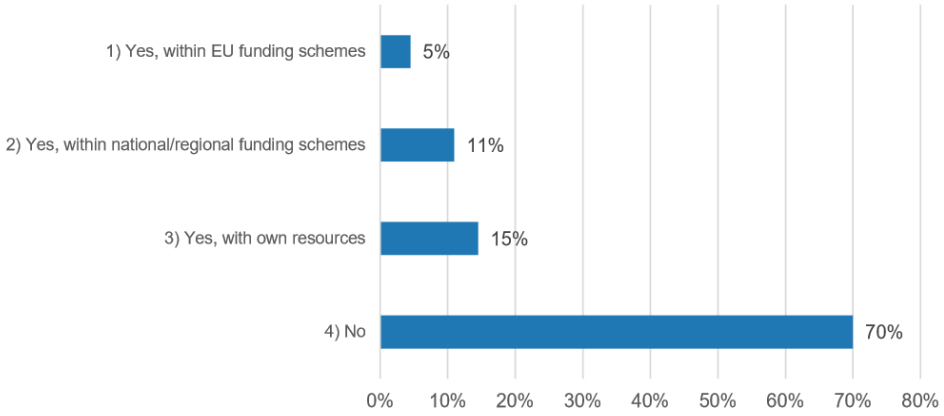
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



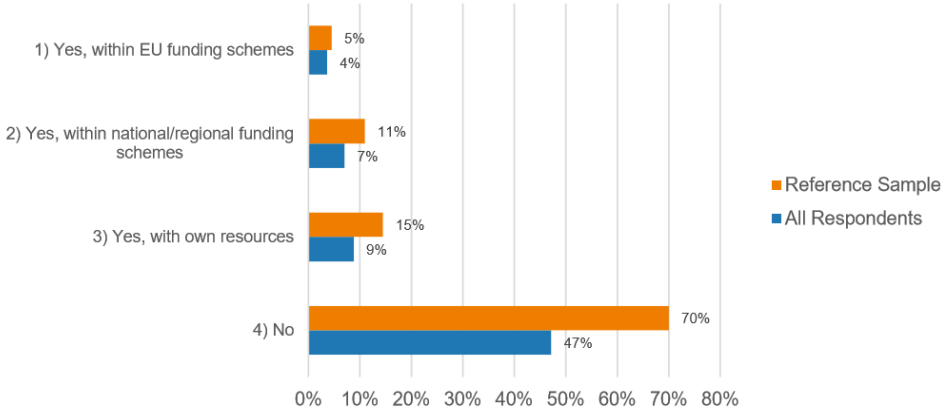
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	-	Count

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	-	Percentage

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Reference Sample	Percentage

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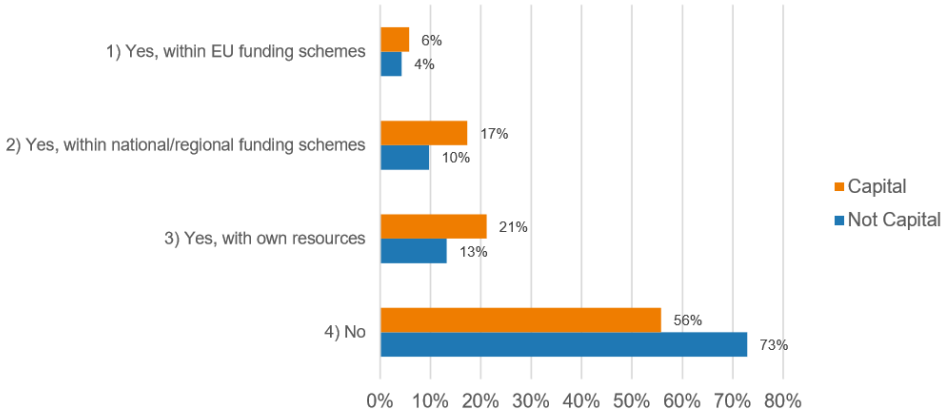
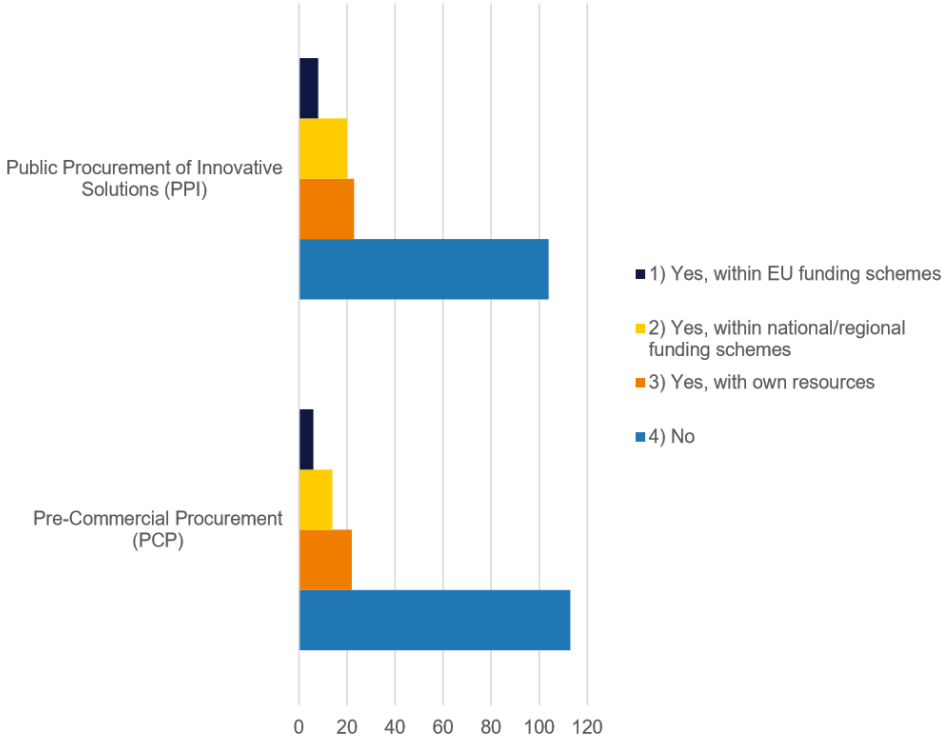


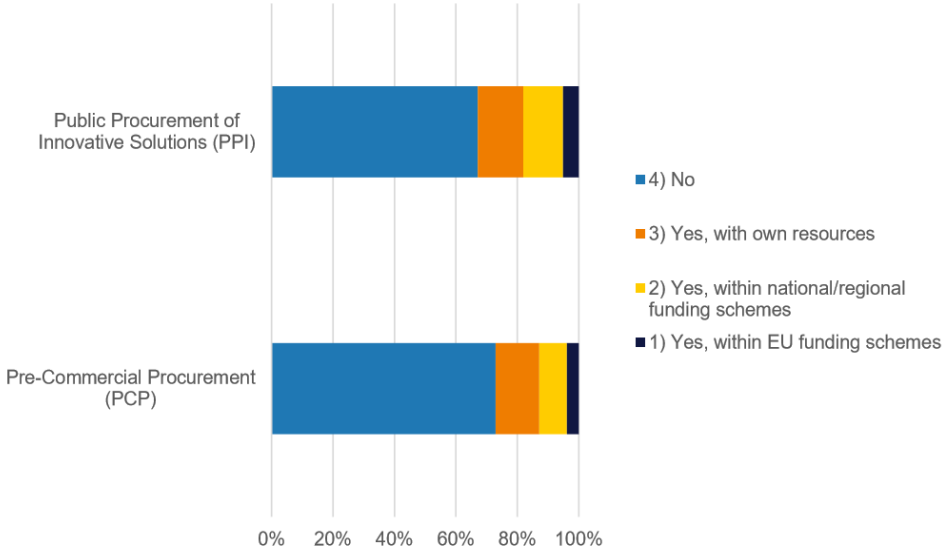
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Capital cities	Percentage

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



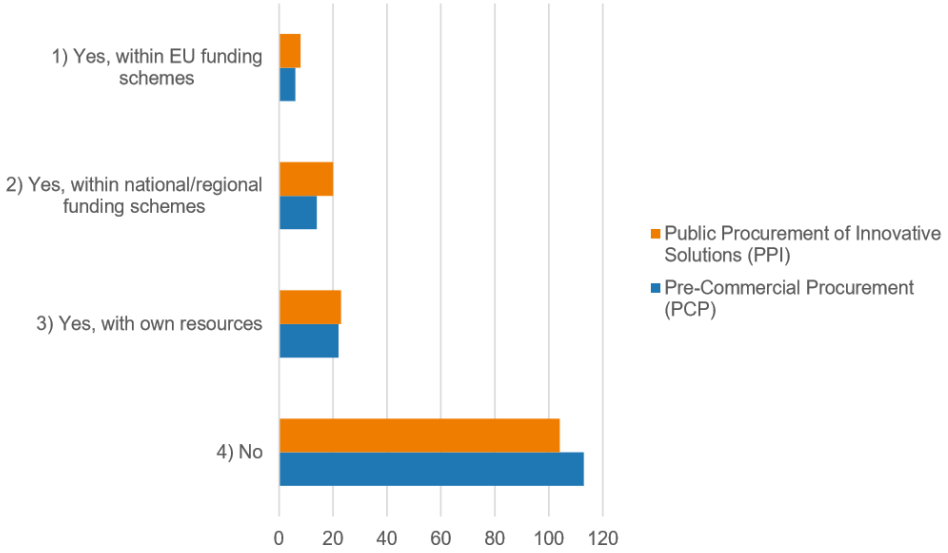
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Count

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Percentage

3.6 If any, which of the following public procurement procedures did your public authority run - in addition to standard procurement procedures?



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Count

3.14 Q_3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?

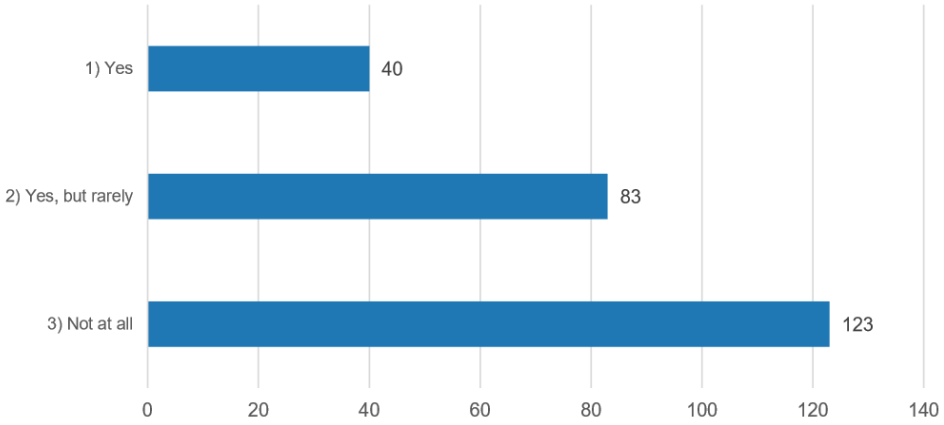
ALL RESPONDENTS

Question type:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	40	16%
2) Yes, but rarely	83	34%
3) Not at all	123	50%

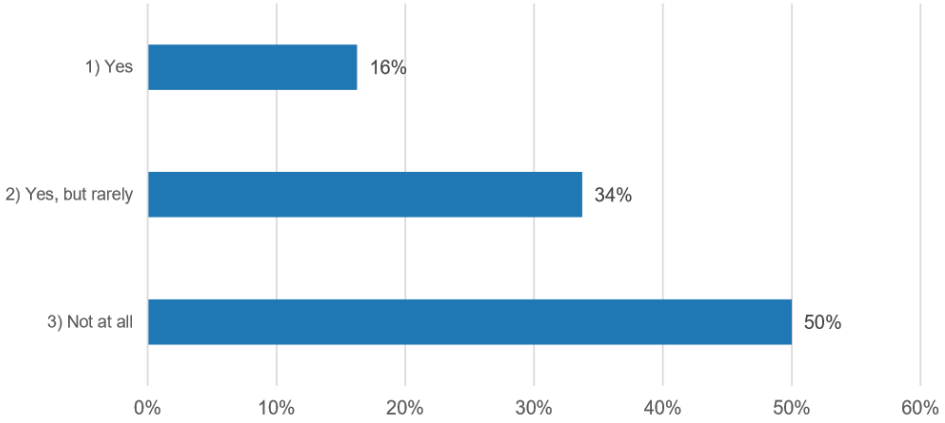
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



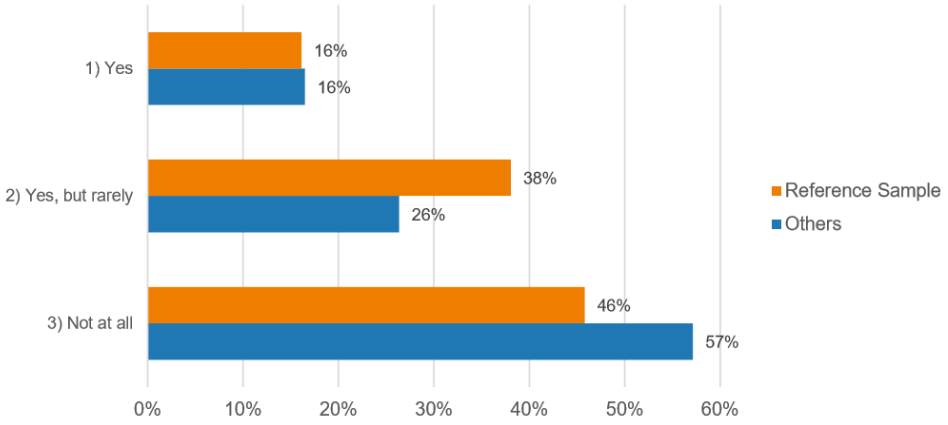
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



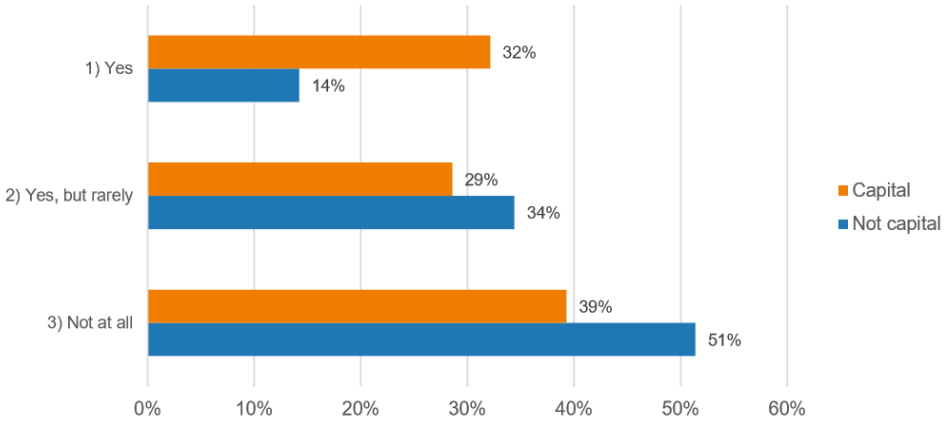
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



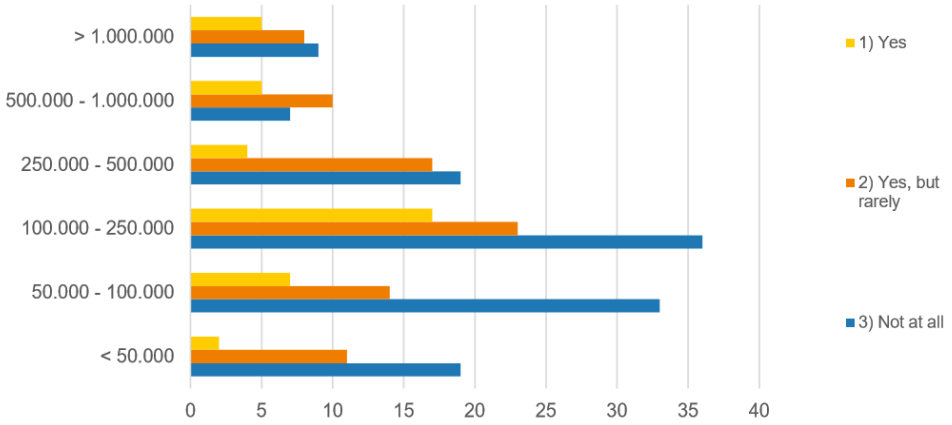
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



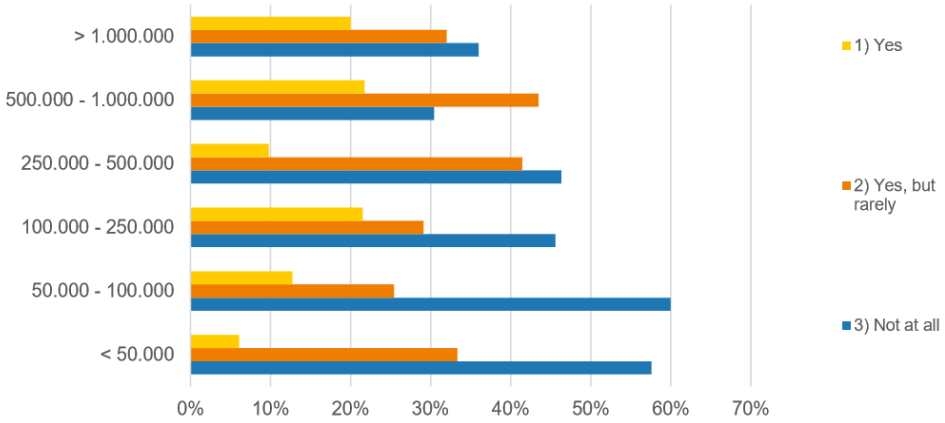
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
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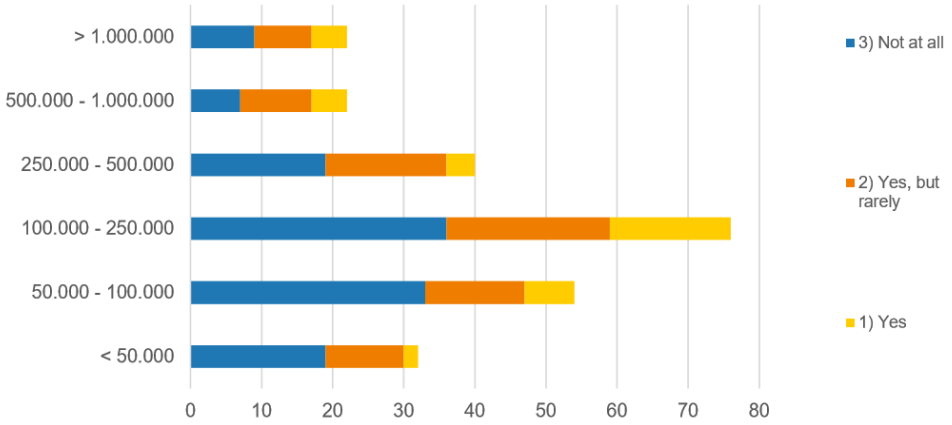
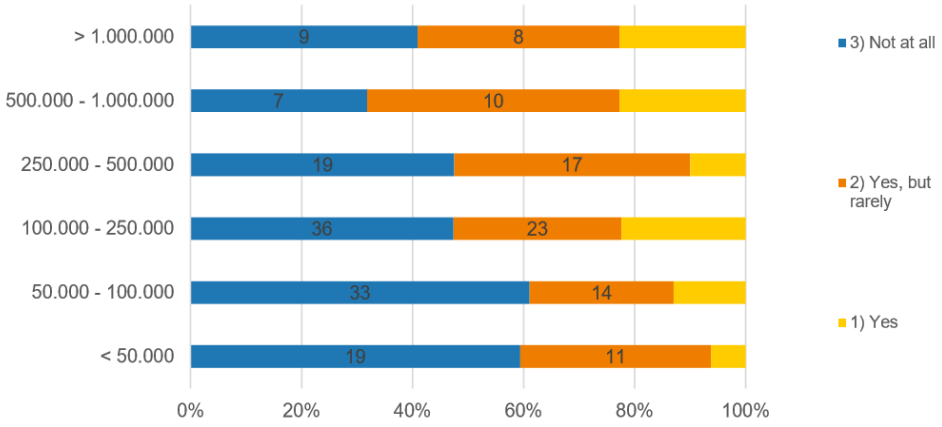


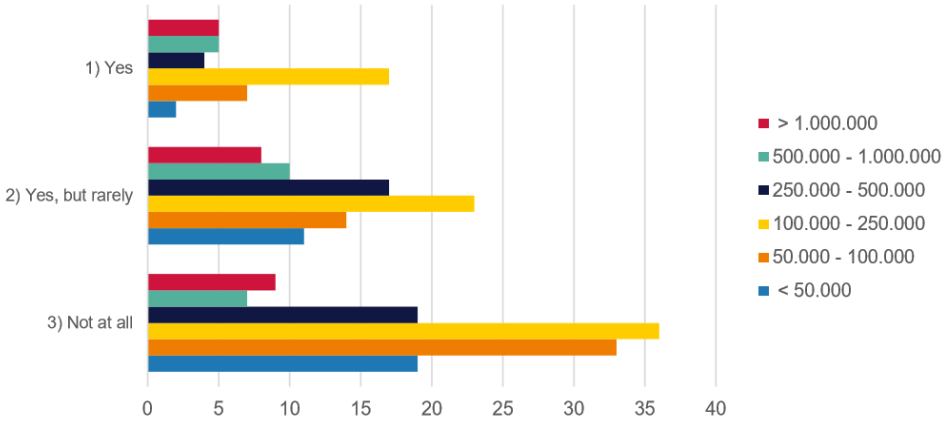
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



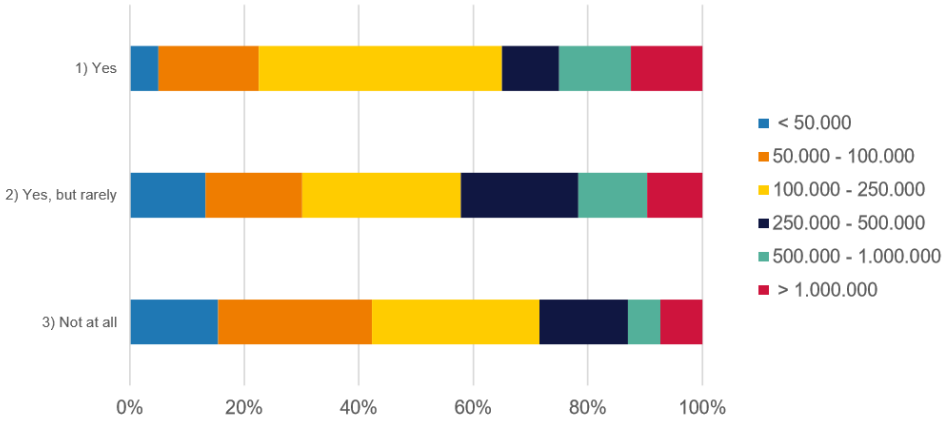
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



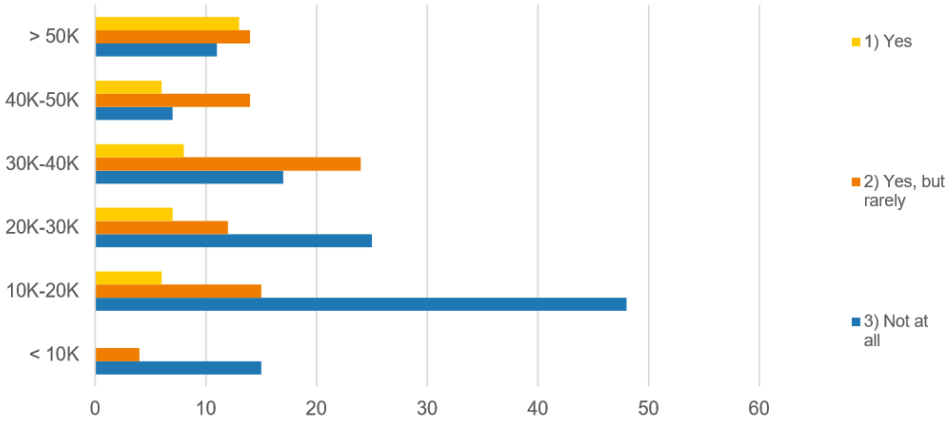
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



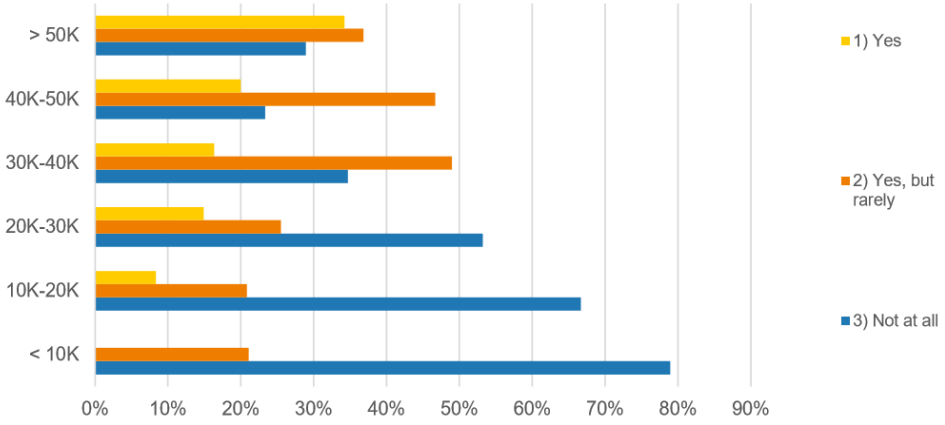
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



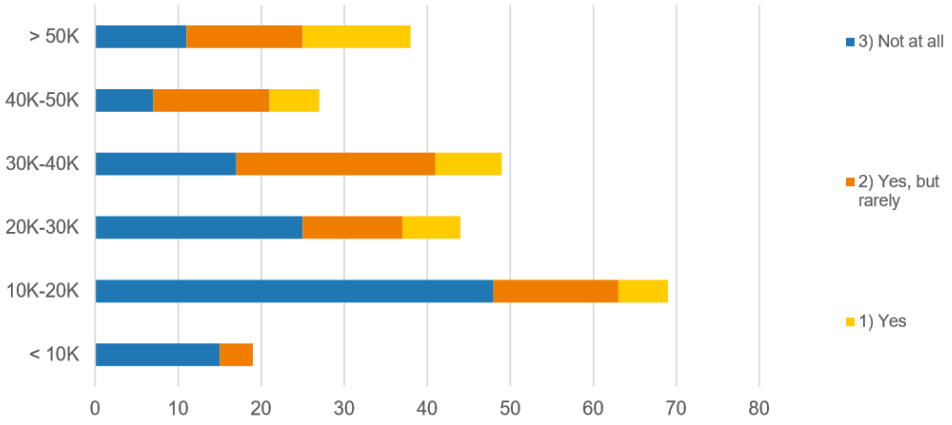
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



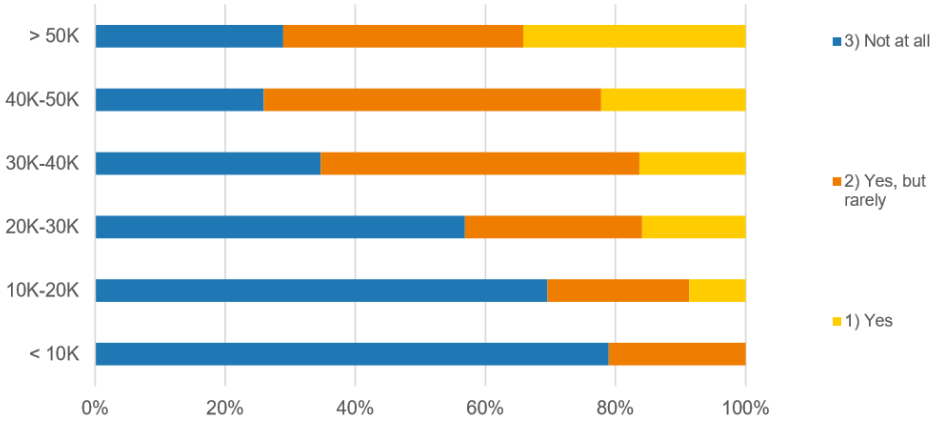
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?

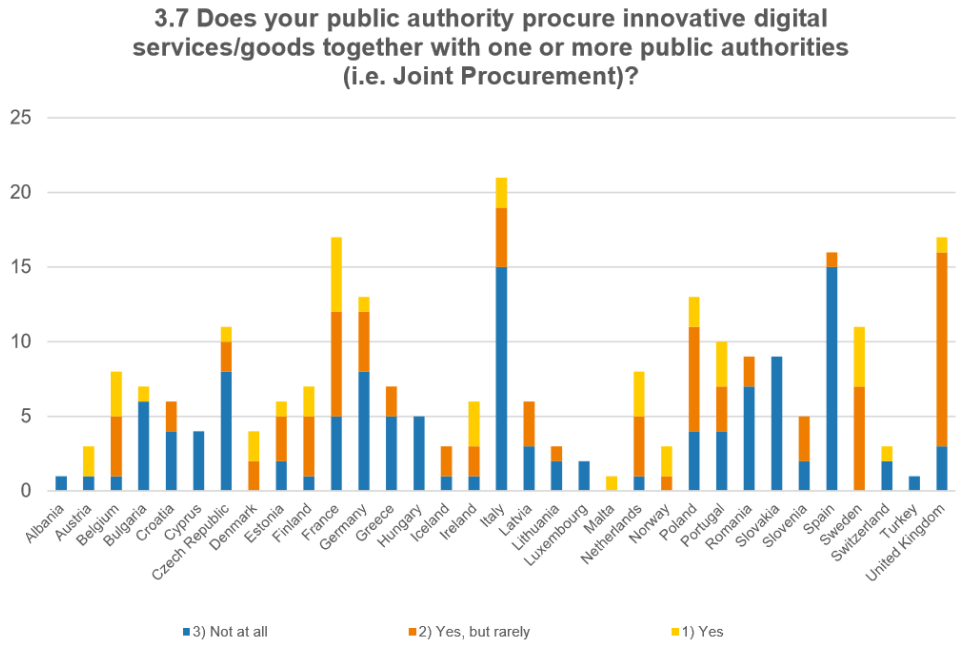


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

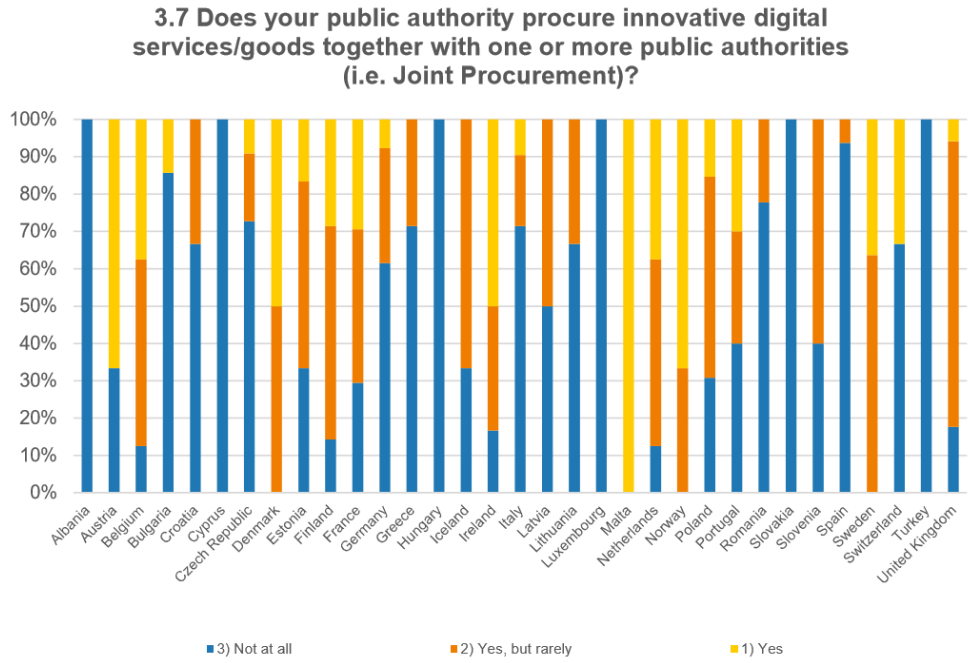
3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?

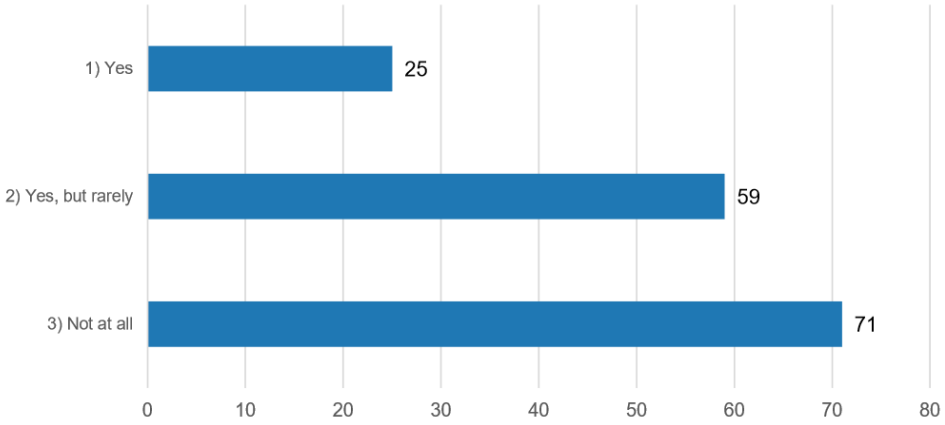
REFERENCE SAMPLE

Question type:	***Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	25	16%
2) Yes, but rarely	59	38%
3) Not at all	71	46%

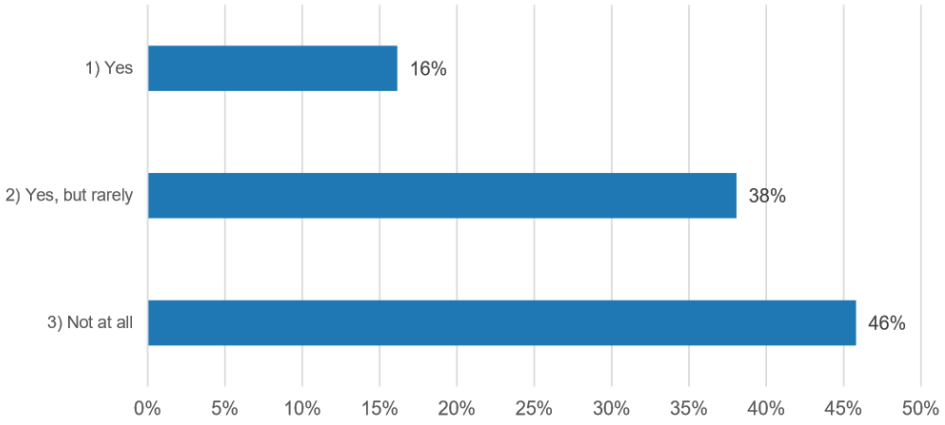
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



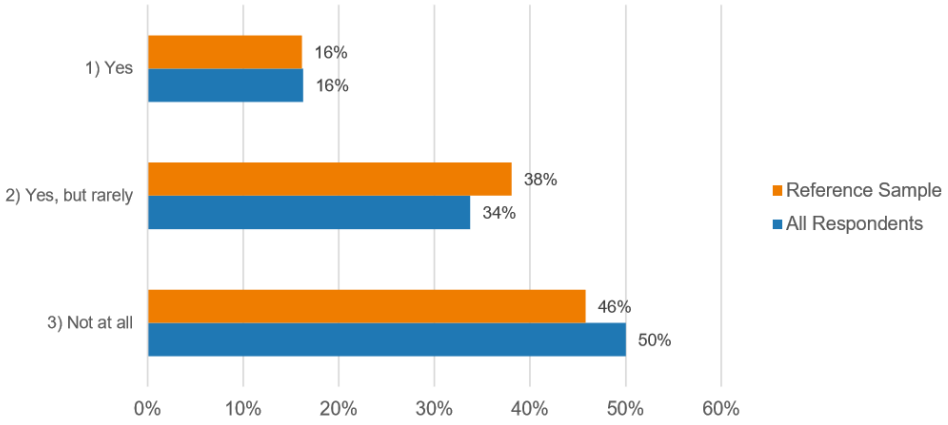
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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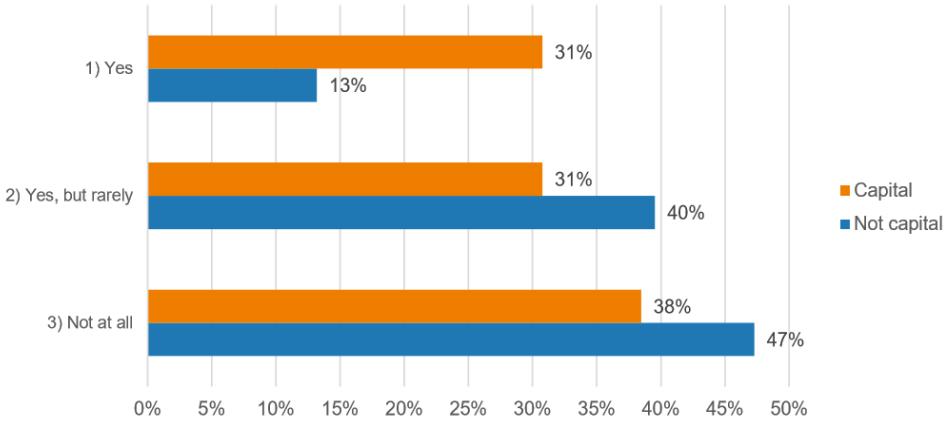
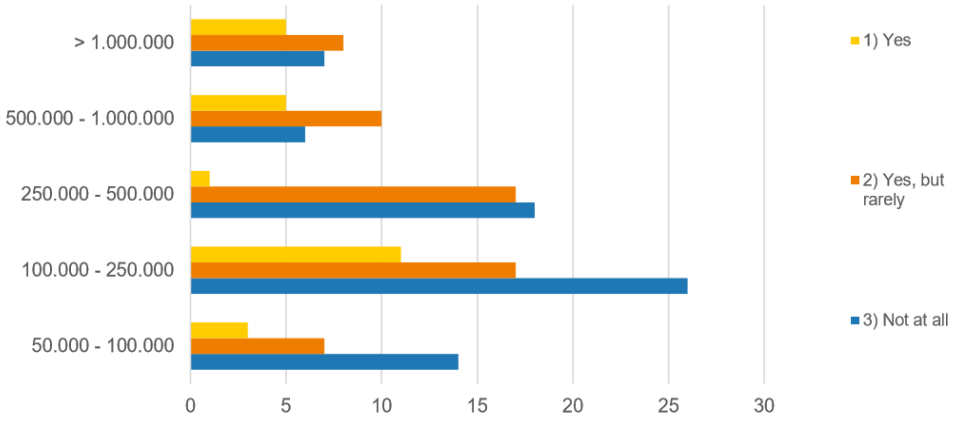


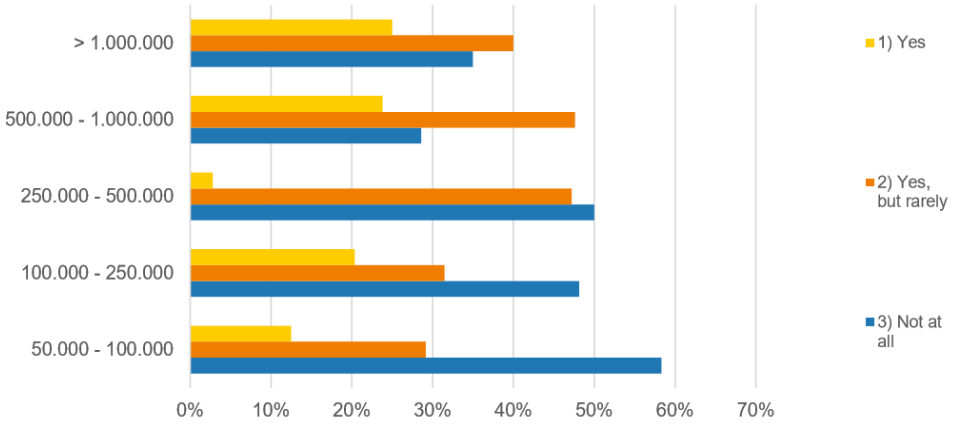
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



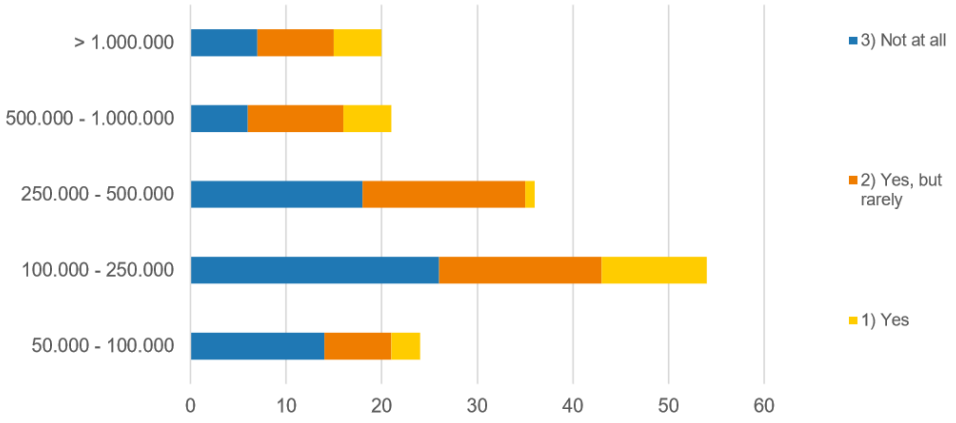
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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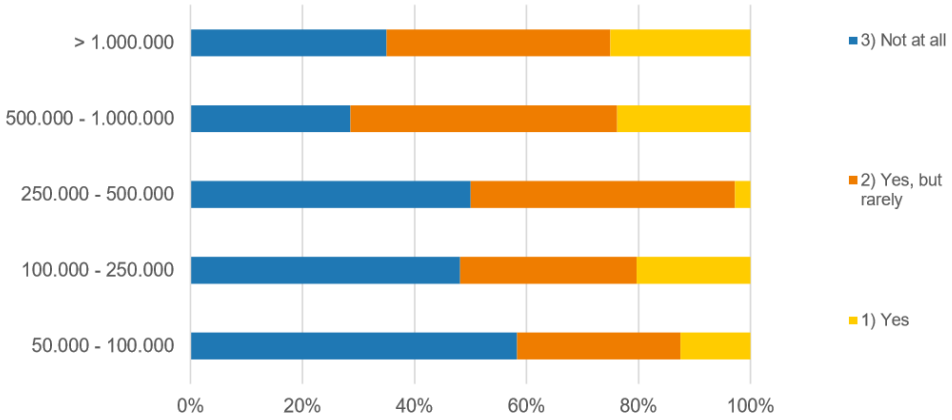

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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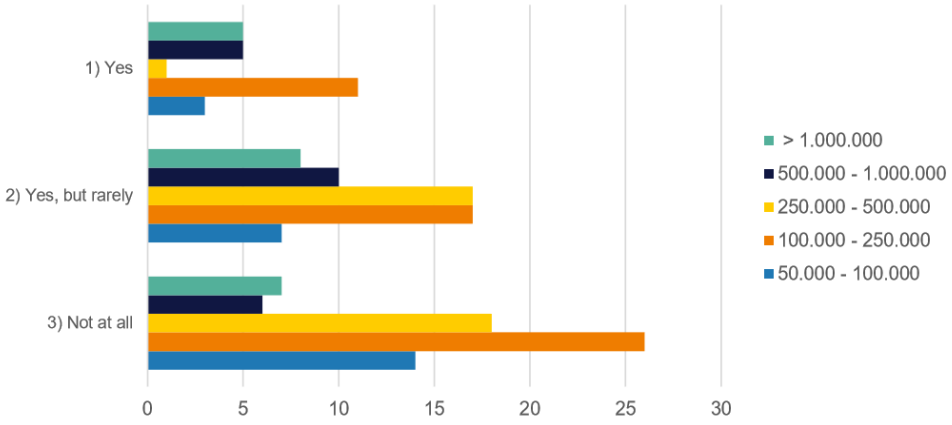
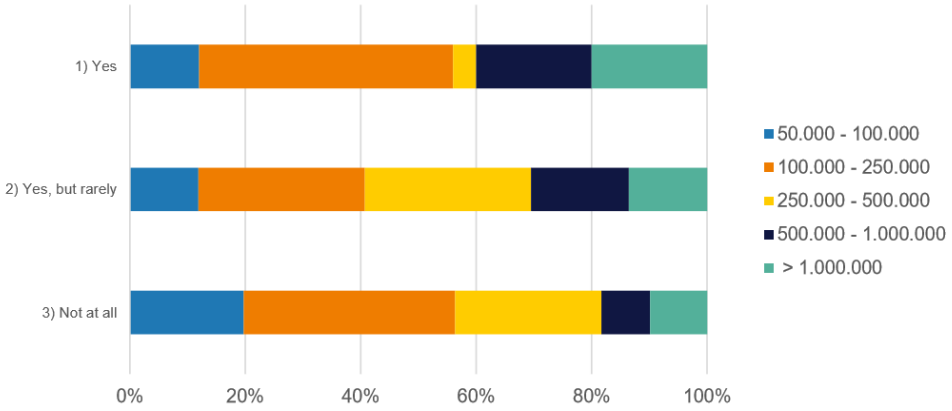
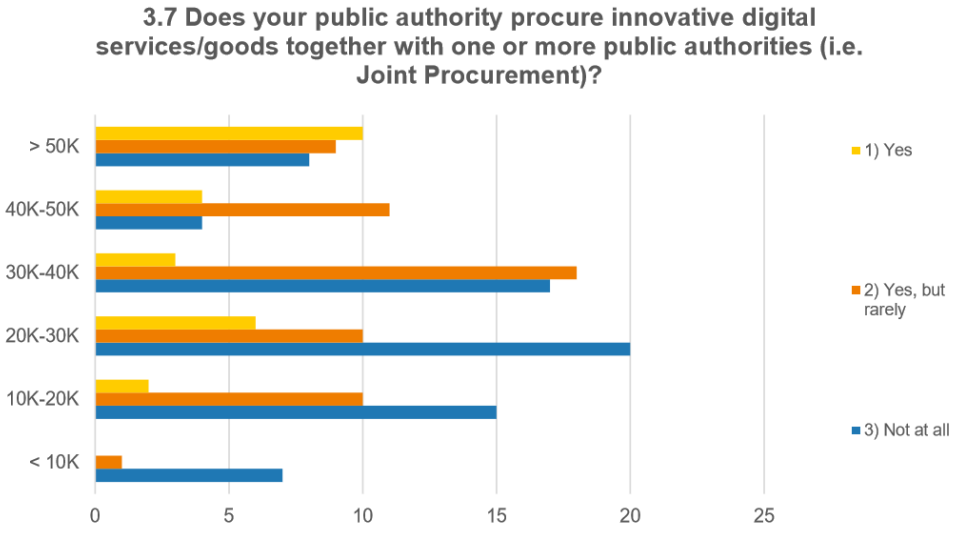


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?

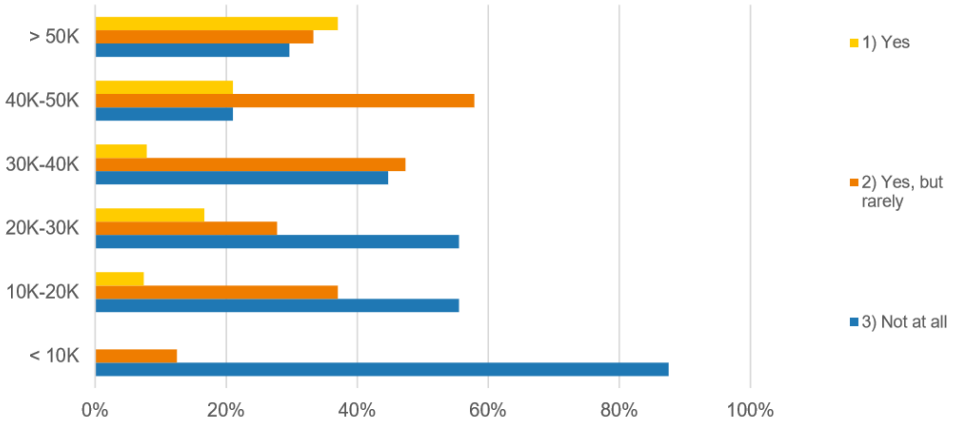


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

3.7 Does your public authority procure innovative digital services/goods together with one or more public authorities (i.e. Joint Procurement)?



Question type	Data sample	Cluster	Value
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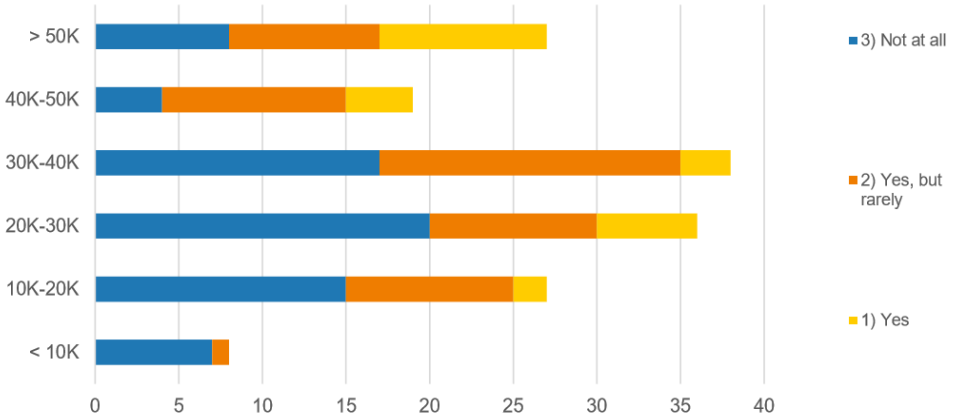

Question type	Data sample	Cluster	Value
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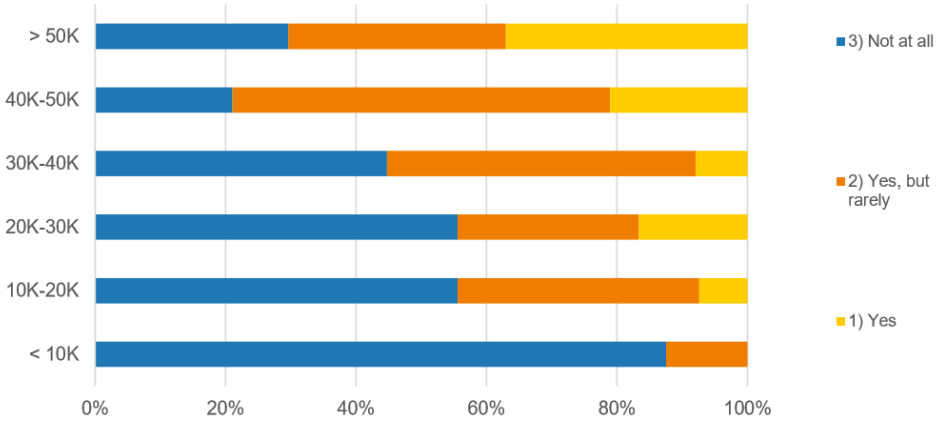
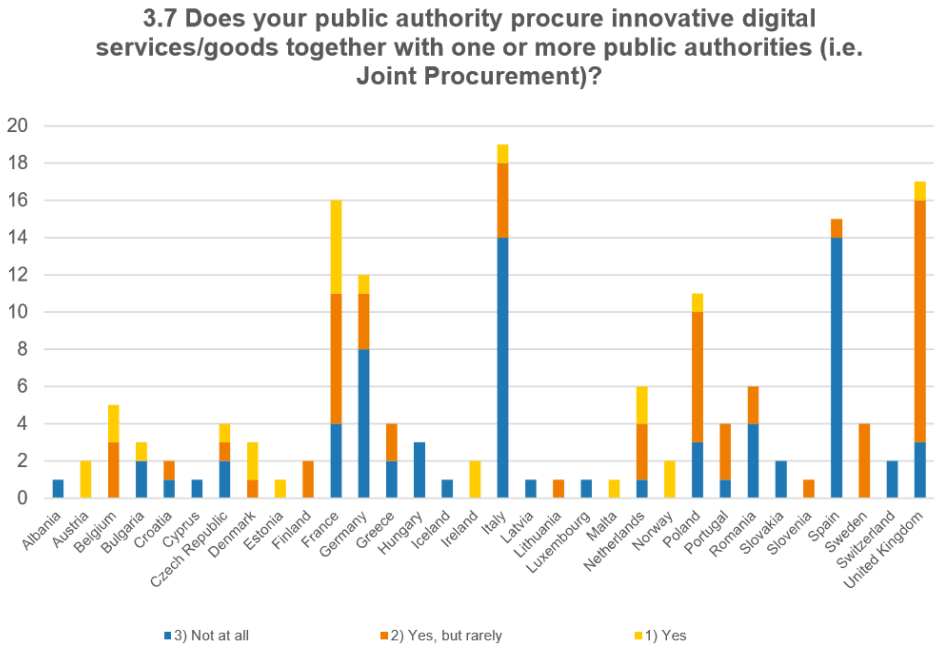
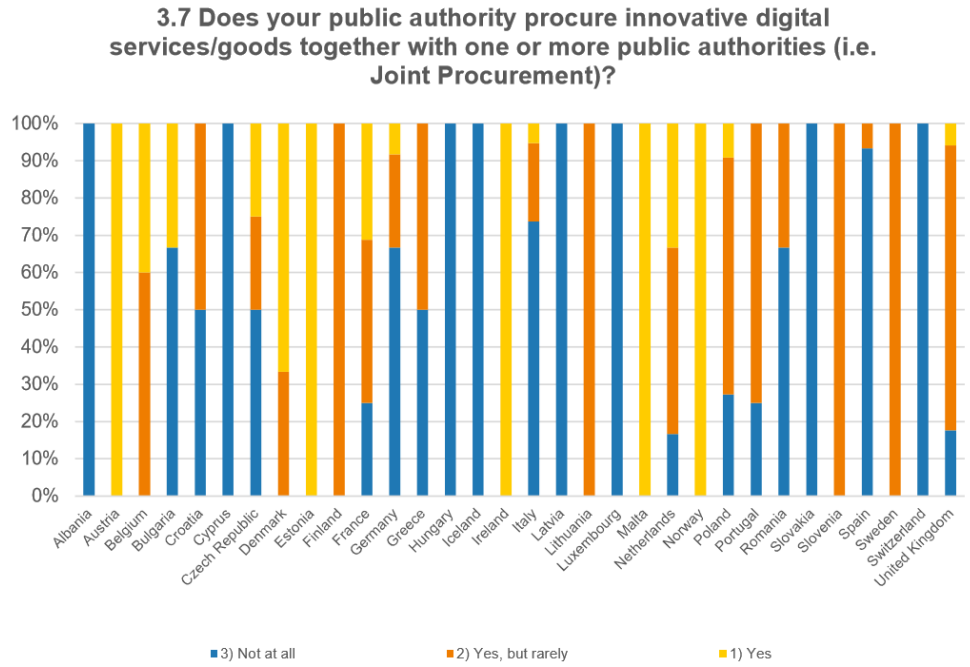


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.15 Q_3.7.1 What is the main reason to opt for Joint Procurement Procedures?

3.7.1 What is the main reason to opt for Joint Procurement Procedures?

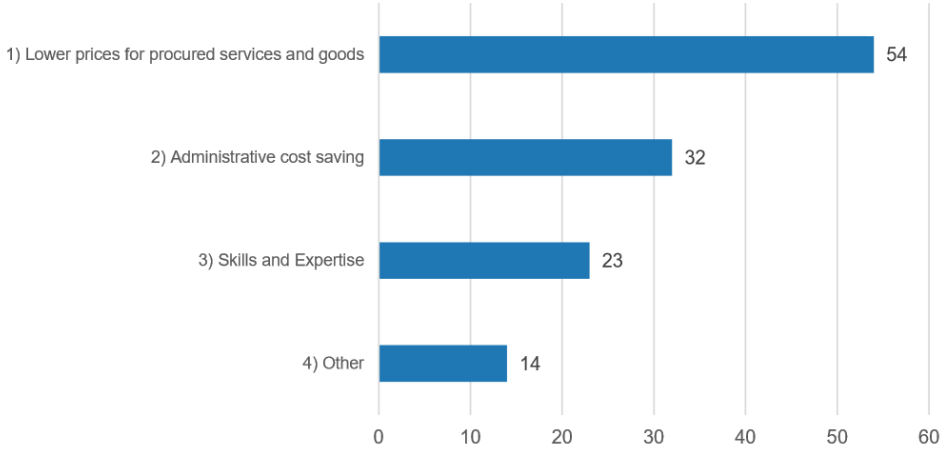
ALL RESPONDENTS

Question type:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**123 (50%)**

Answer	*Count*	*Percentage**
1) Lower prices for procured services and goods	54	44%
2) Administrative cost saving	32	26%
3) Skills and Expertise	23	19%
4) Other	14	11%

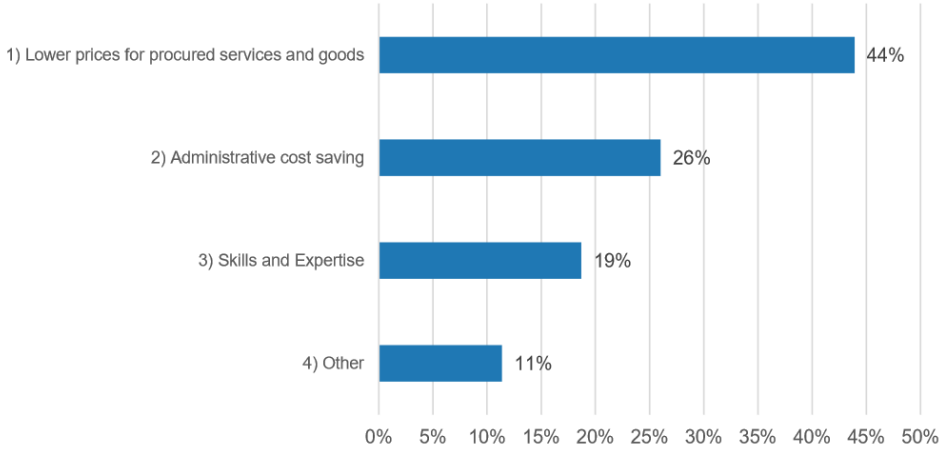
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



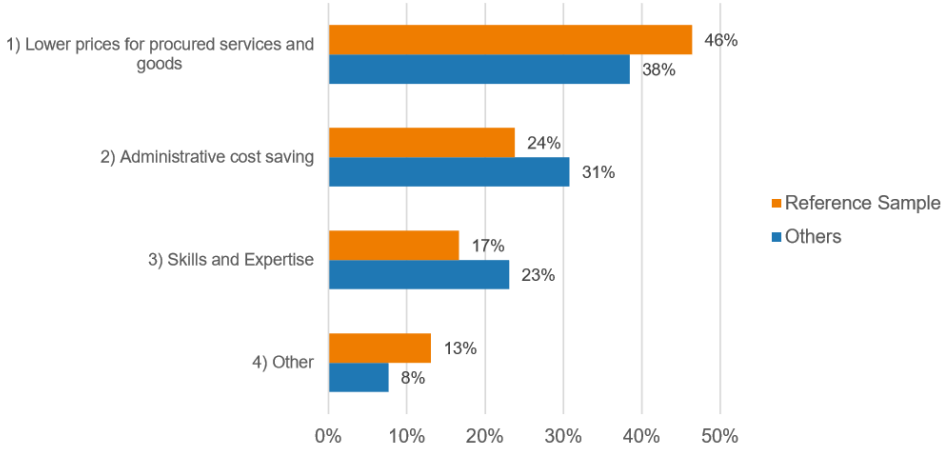
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



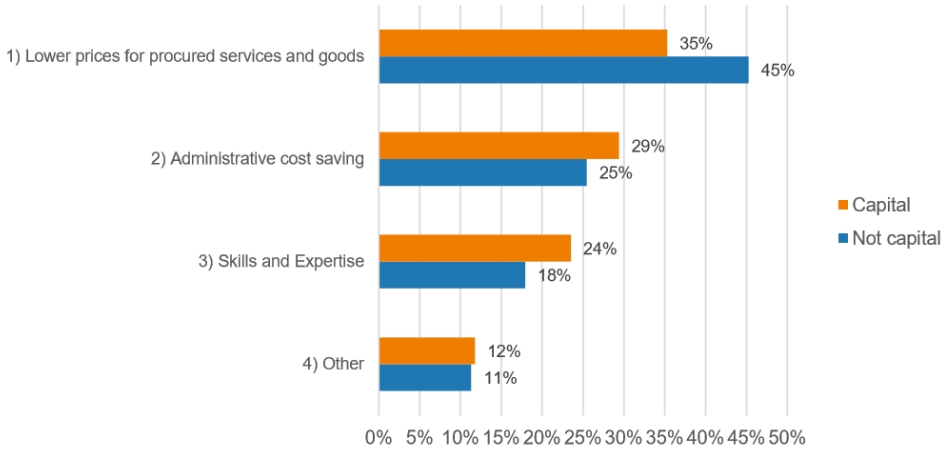
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



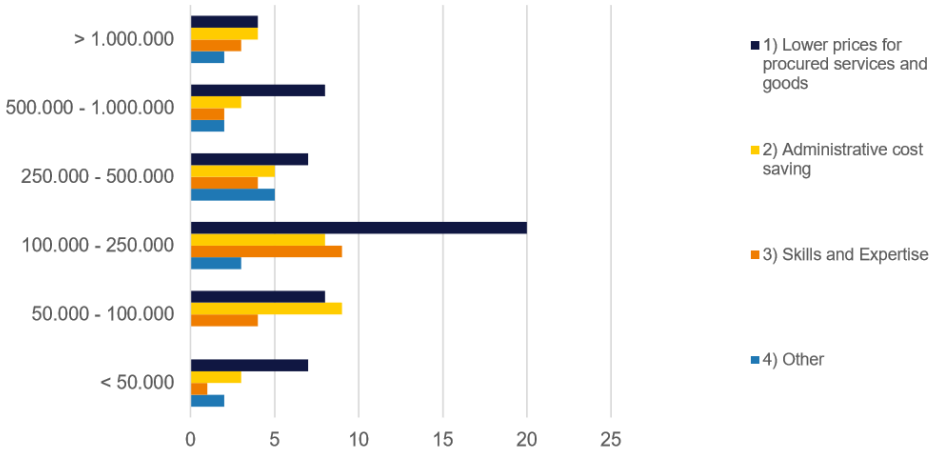
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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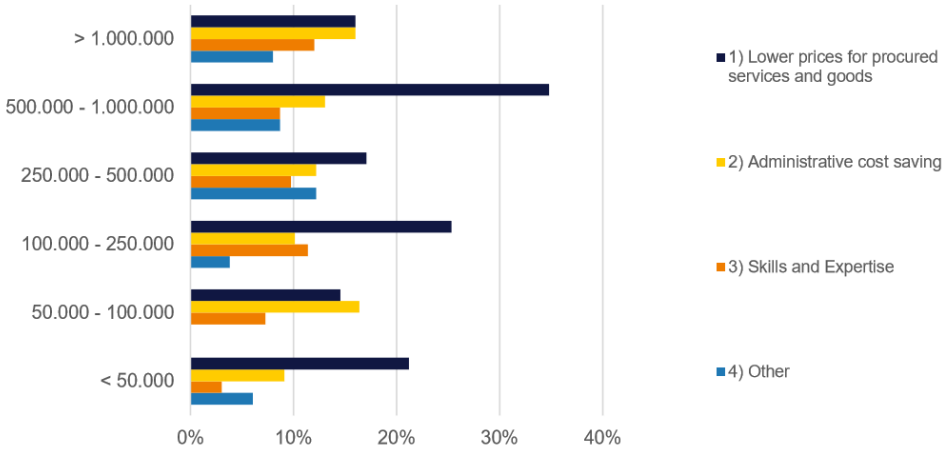

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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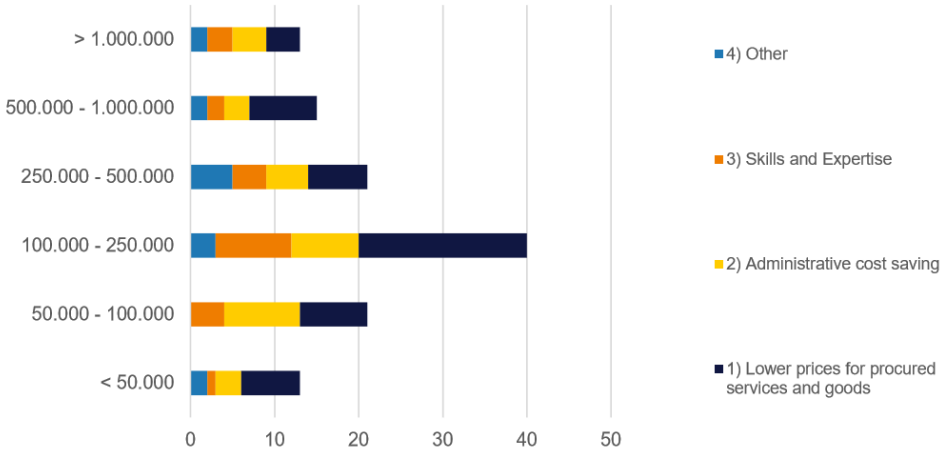

Question type	Data sample	Cluster	Value
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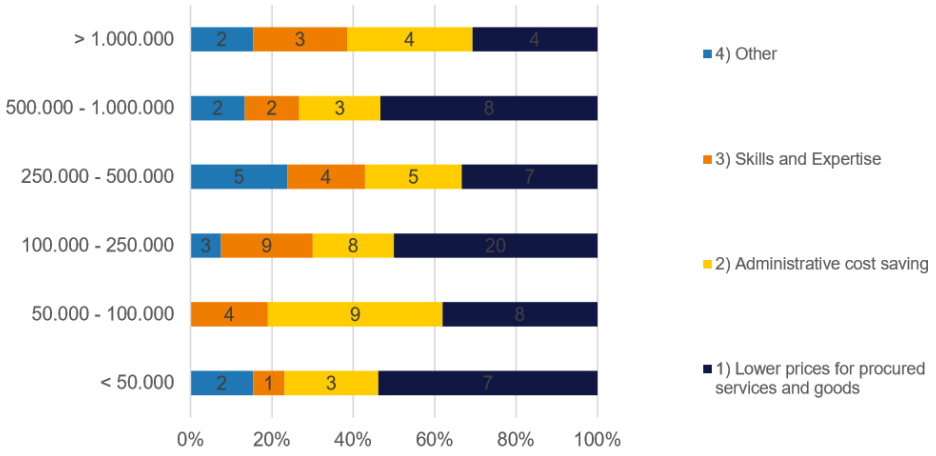

Question type	Data sample	Cluster	Value
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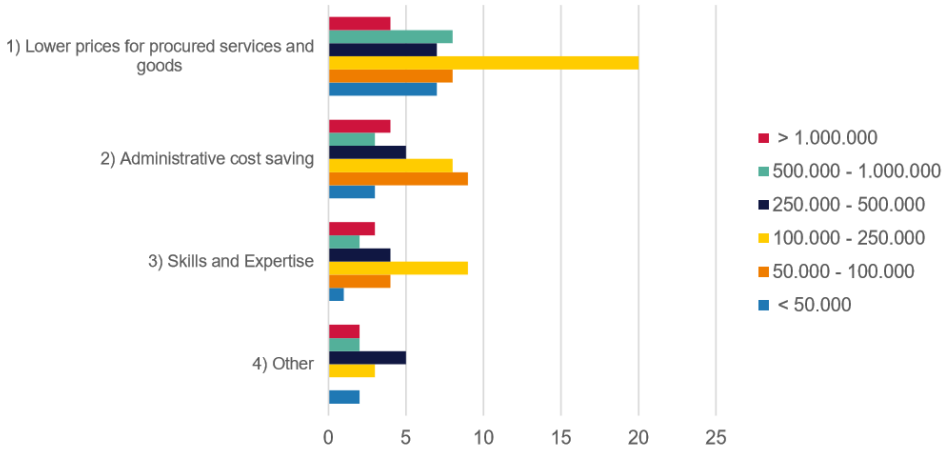

Question type	Data sample	Cluster	Value
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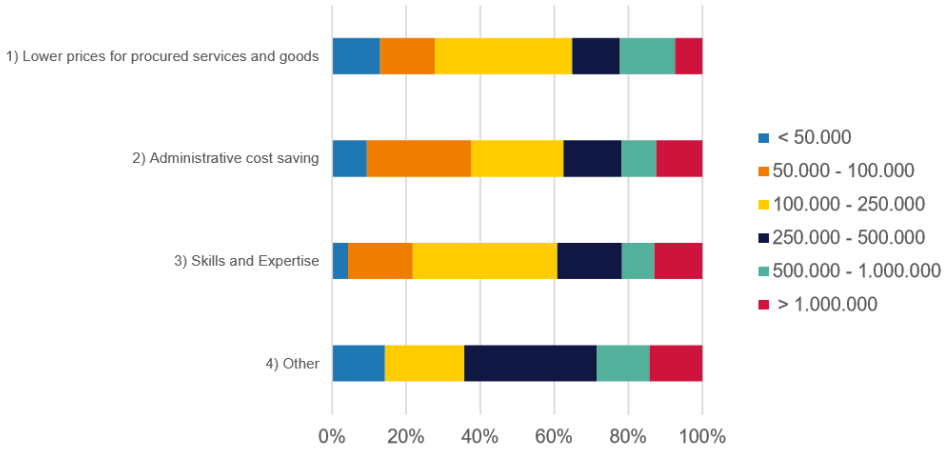

Question type	Data sample	Cluster	Value
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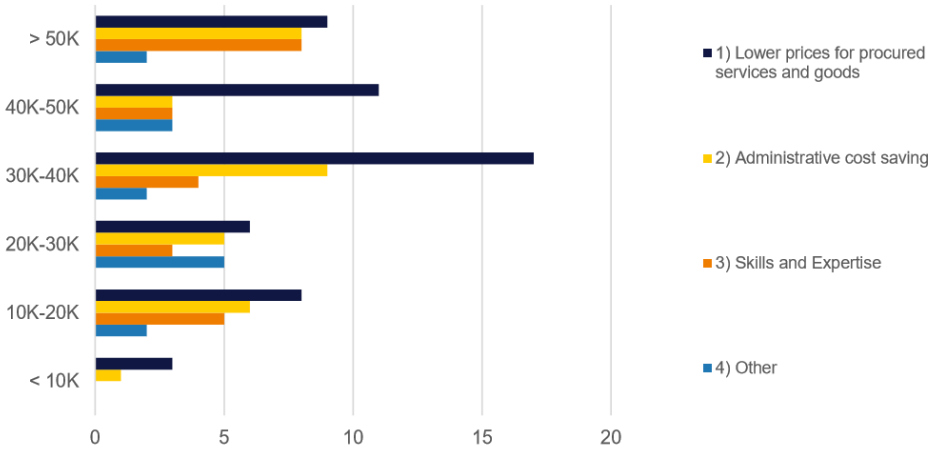
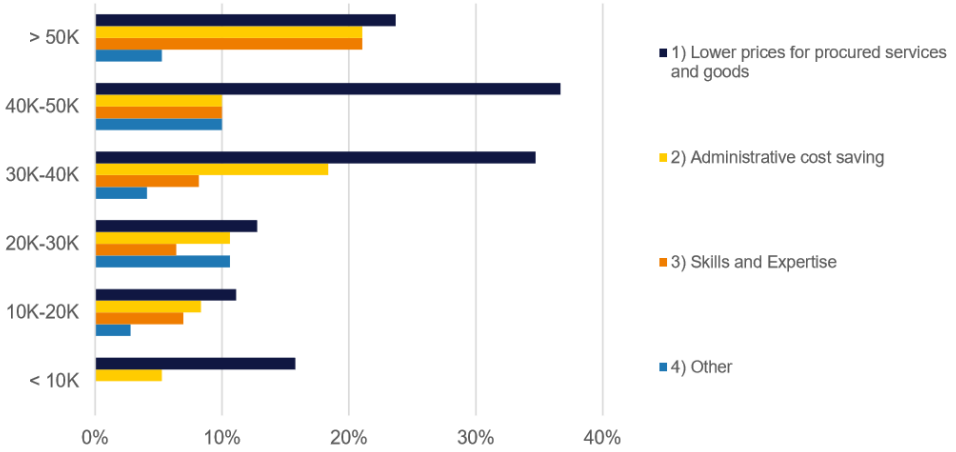


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

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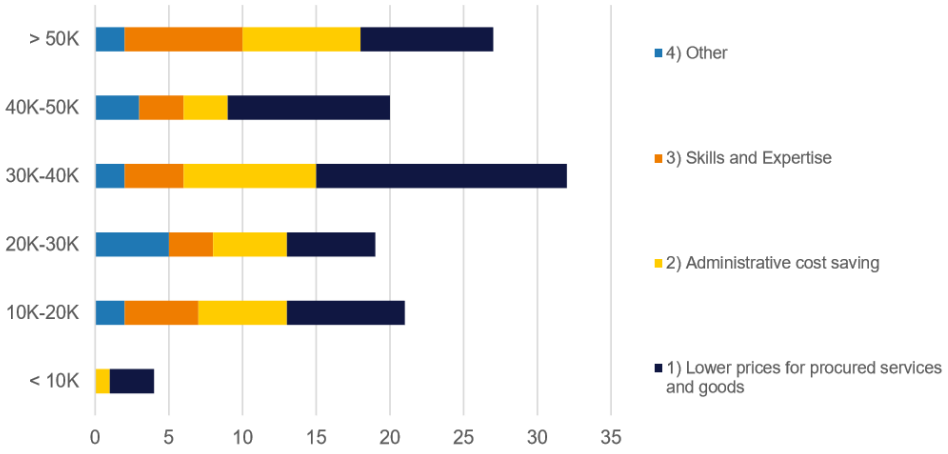

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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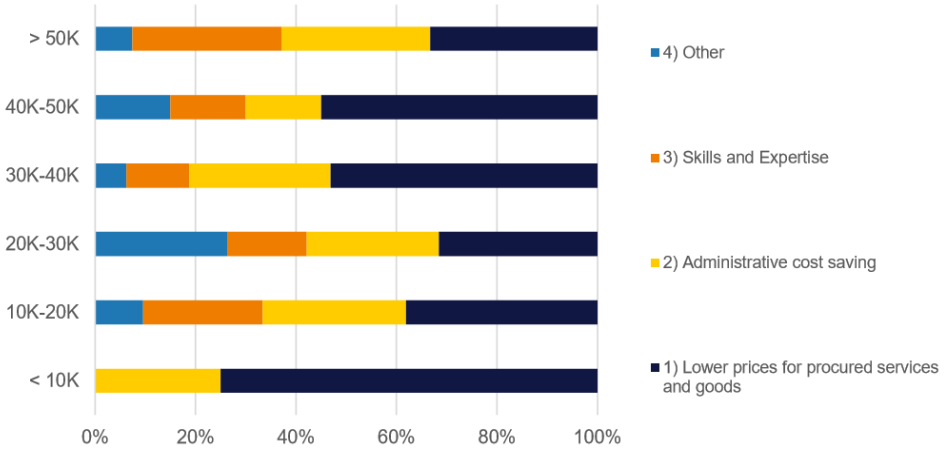

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

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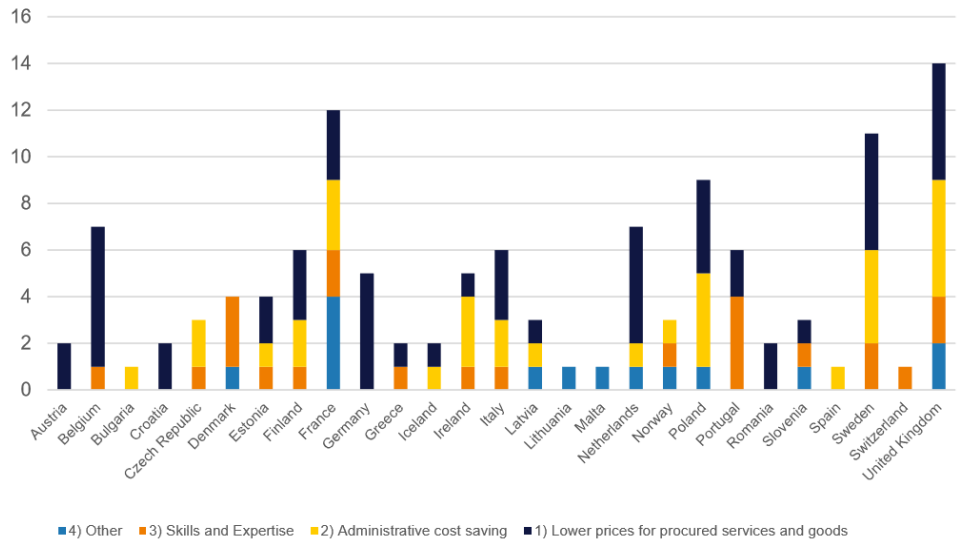
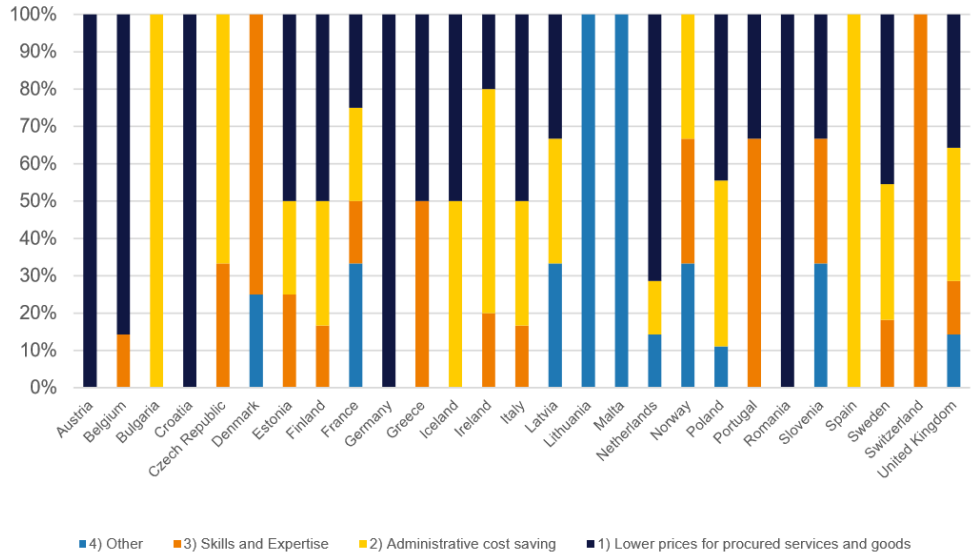


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

3.7.1 What is the main reason to opt for Joint Procurement Procedures?

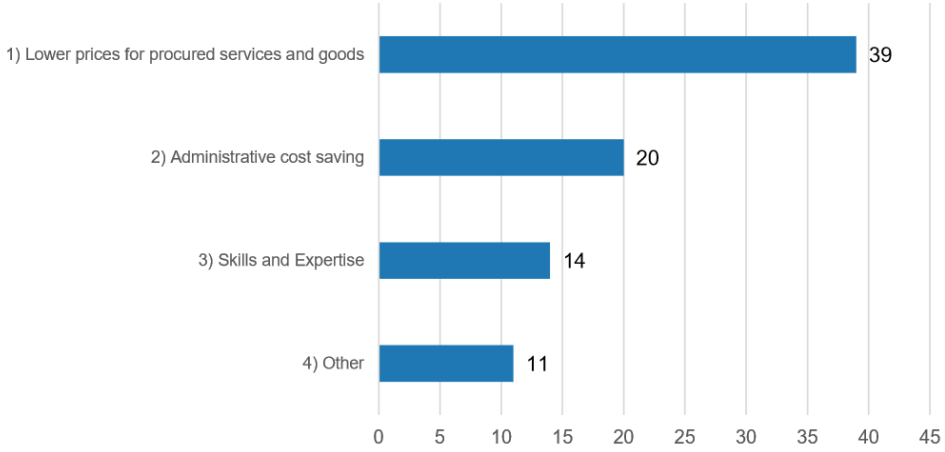
REFERENCE SAMPLE

Question type: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **84 (54%)**

Answer	*Count*	*Percentage**
1) Lower prices for procured services and goods	39	46%
2) Administrative cost saving	20	24%
3) Skills and Expertise	14	17%
4) Other	11	13%

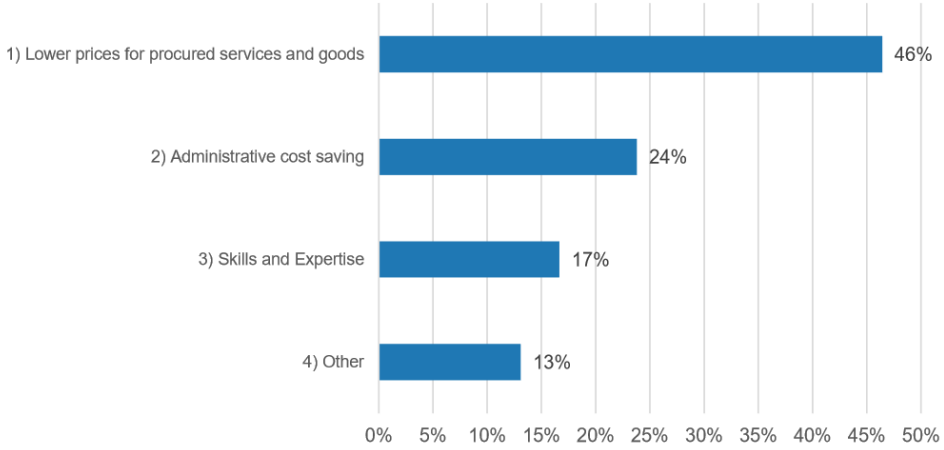
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

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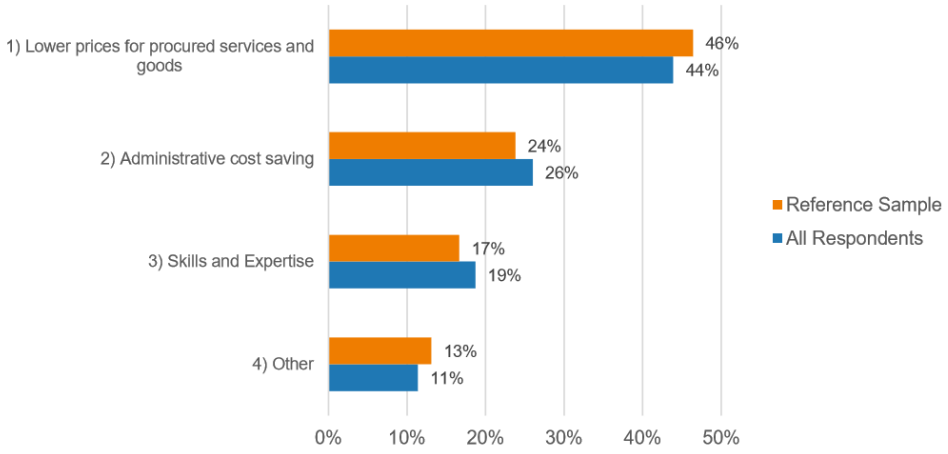

Question type	Data sample	Cluster	Value
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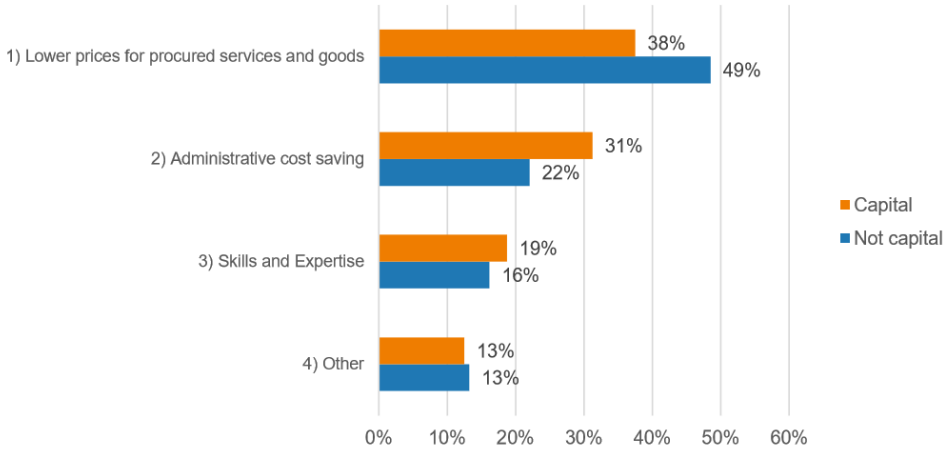

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

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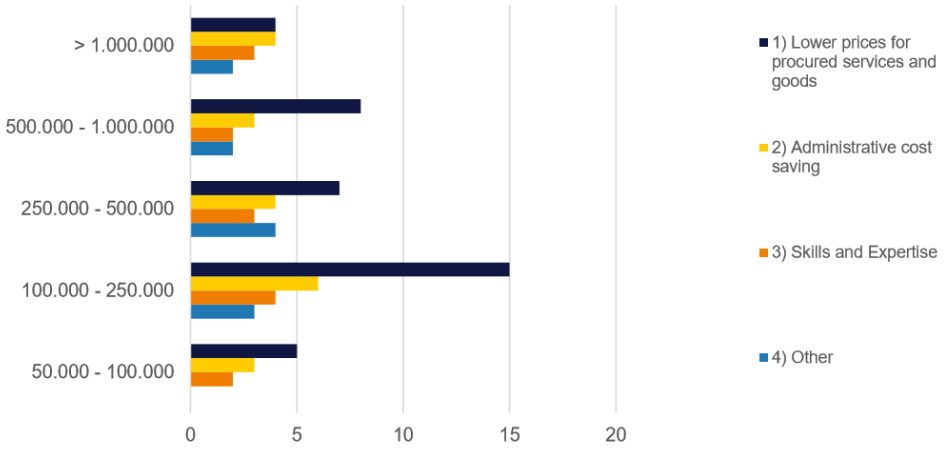

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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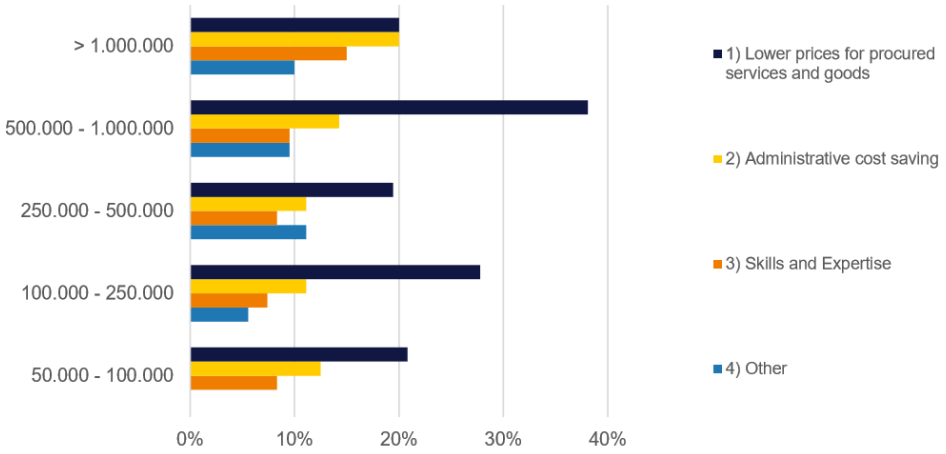

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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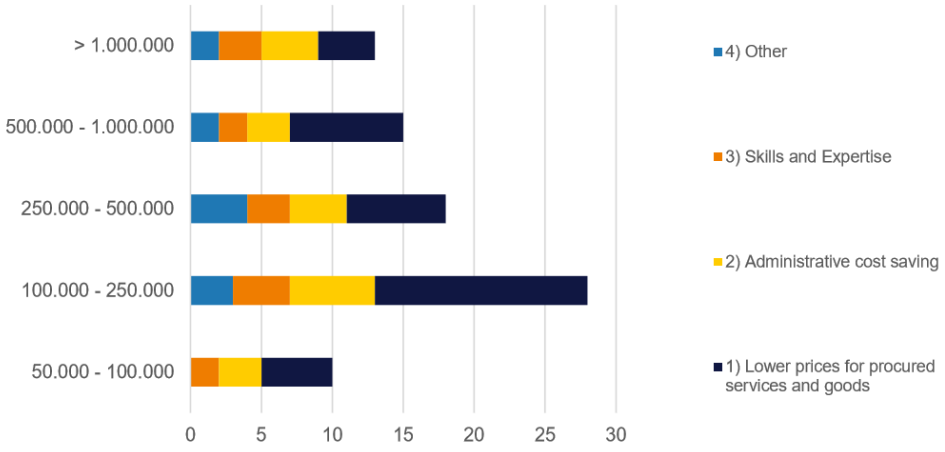

Question type	Data sample	Cluster	Value
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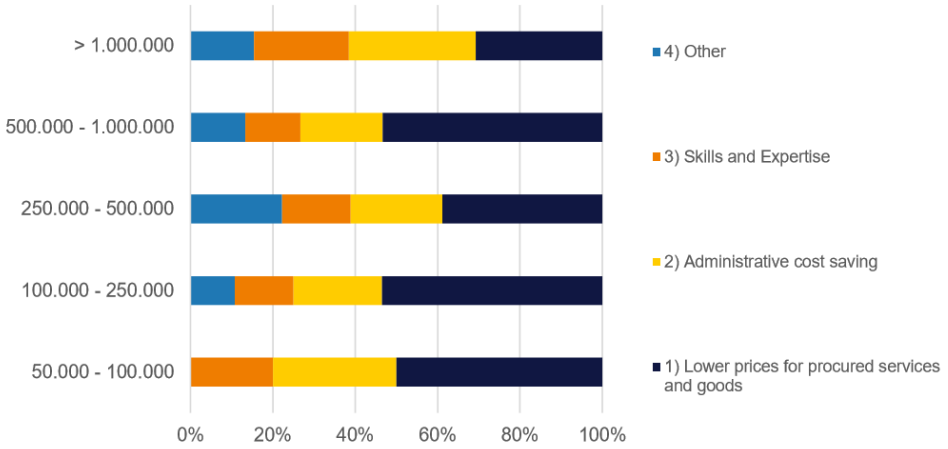

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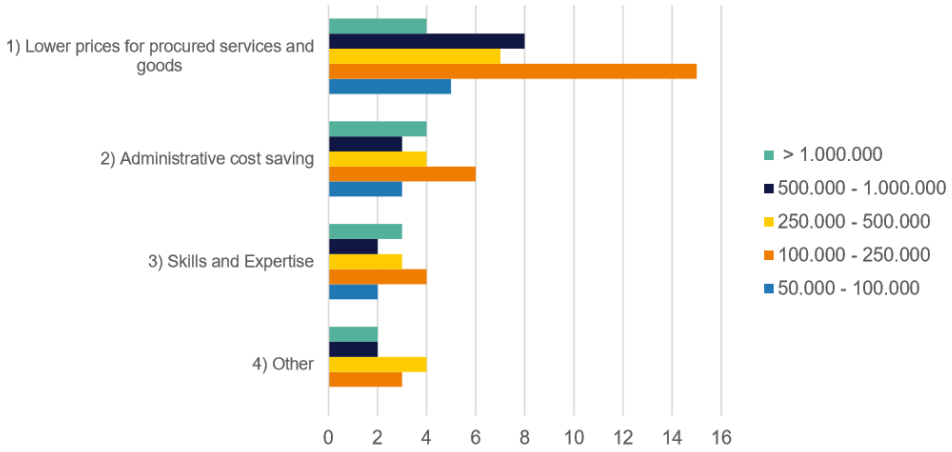

Question type	Data sample	Cluster	Value
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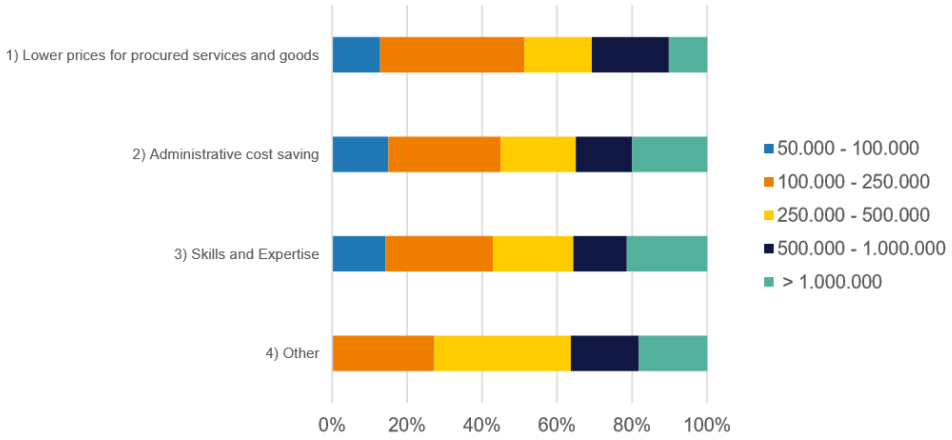

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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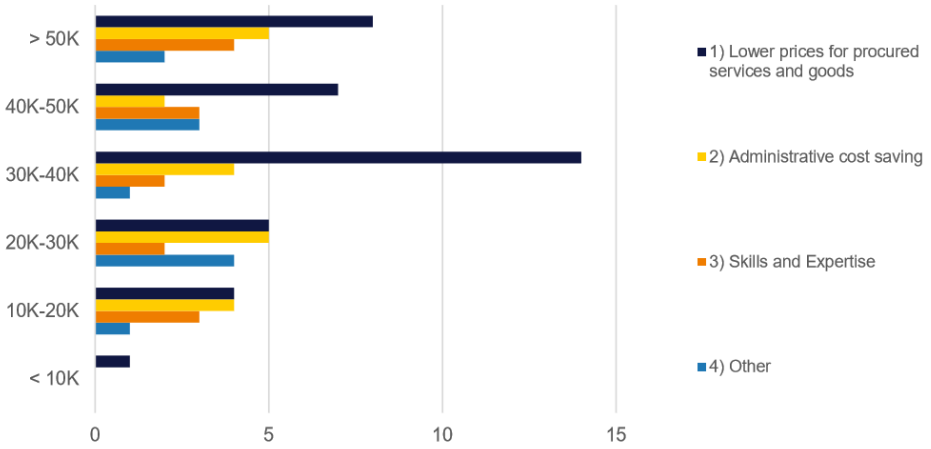
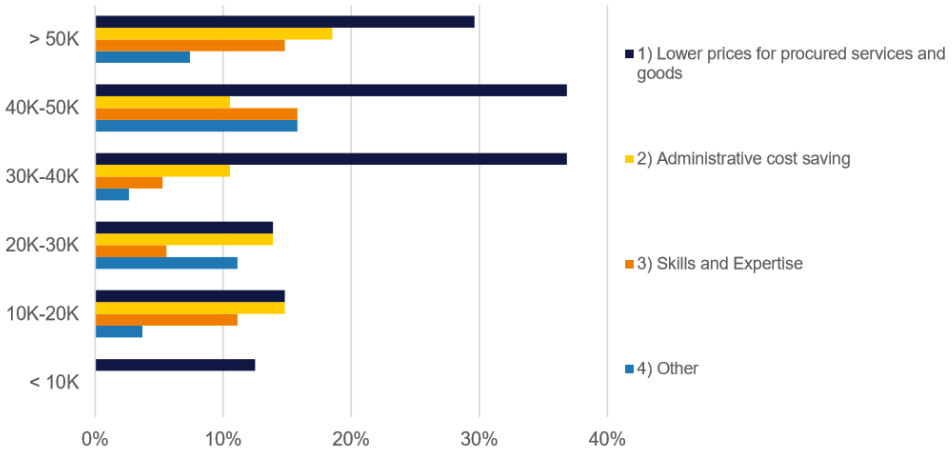


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
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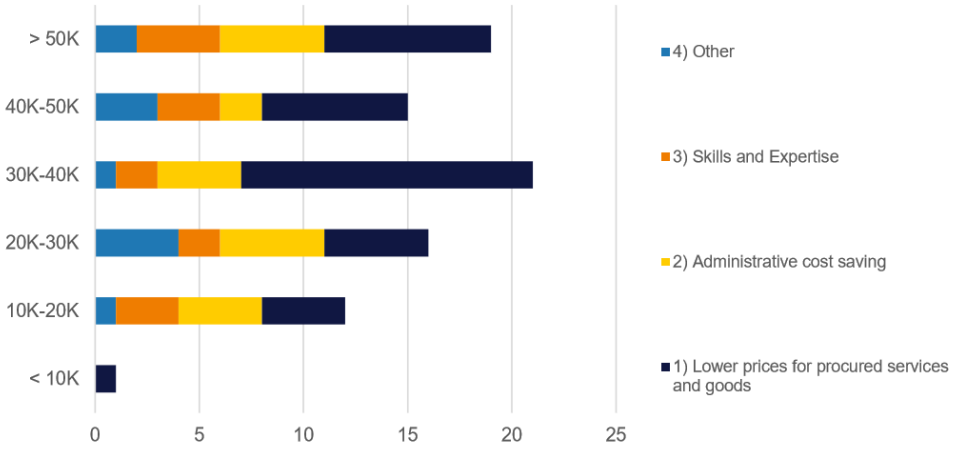

Question type	Data sample	Cluster	Value
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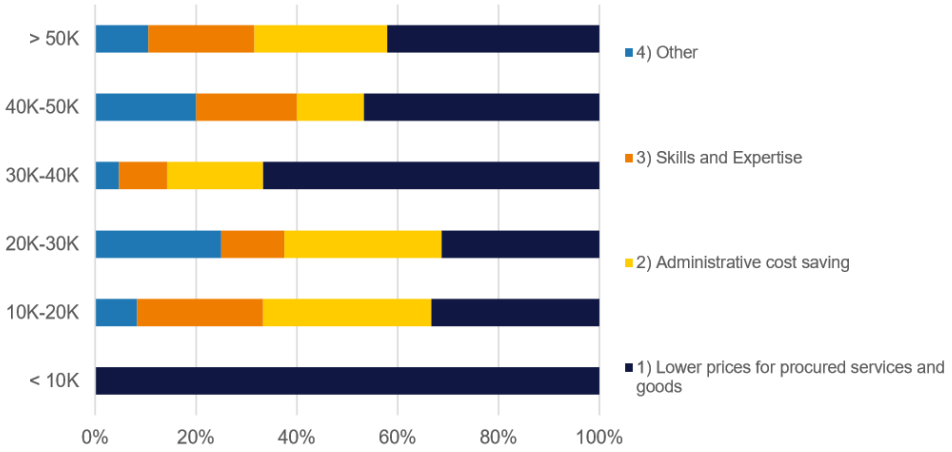
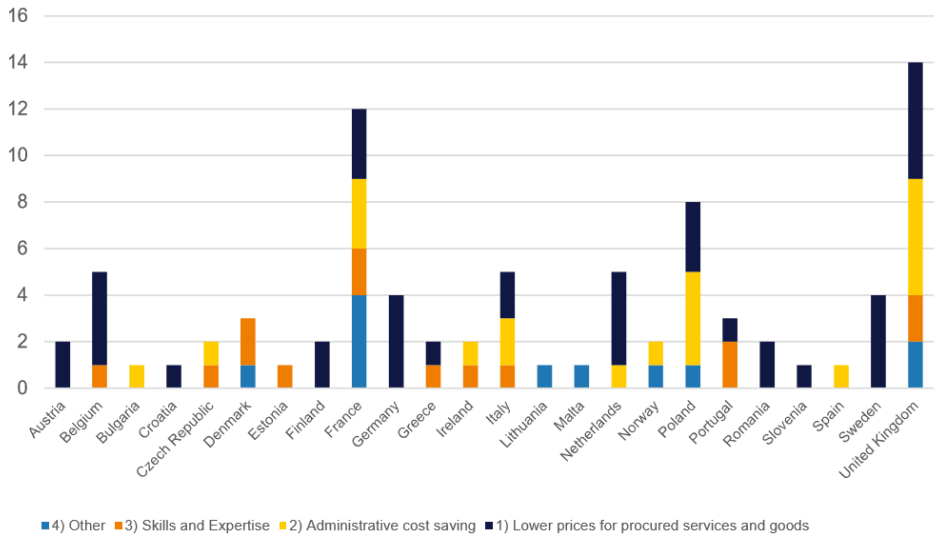


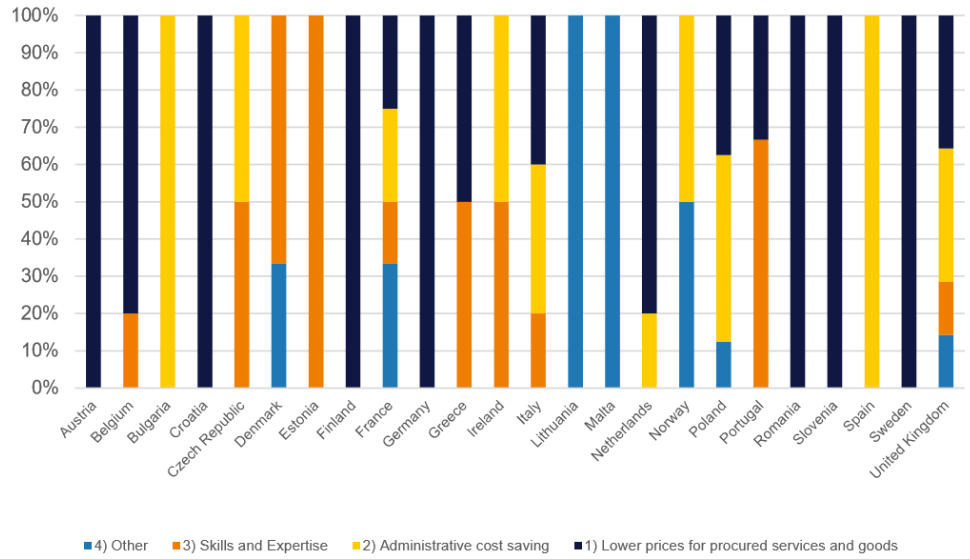
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count

3.7.1 What is the main reason to opt for Joint Procurement Procedures?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.16 Q_3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?

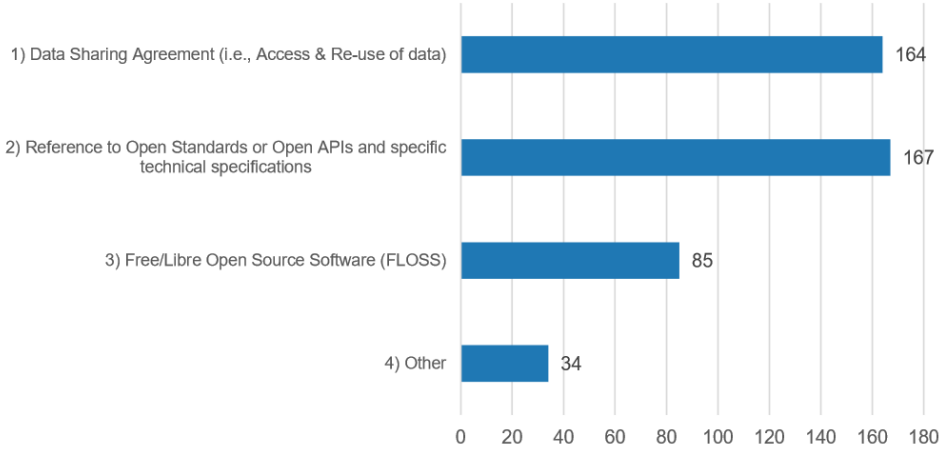
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Data Sharing Agreement (i.e., Access & Re-use of data)	164	67%
2) Reference to Open Standards or Open APIs and specific technical specifications	167	68%
3) Free/Libre Open Source Software (FLOSS)	85	35%
4) Other	34	14%

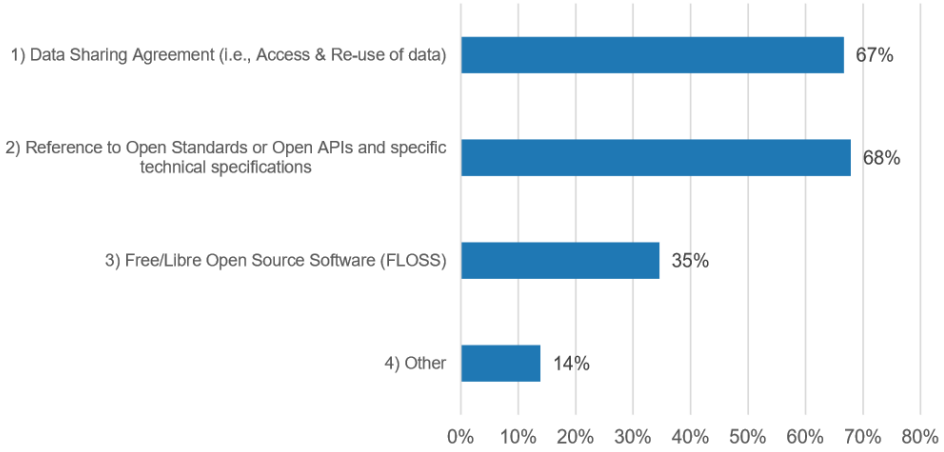
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



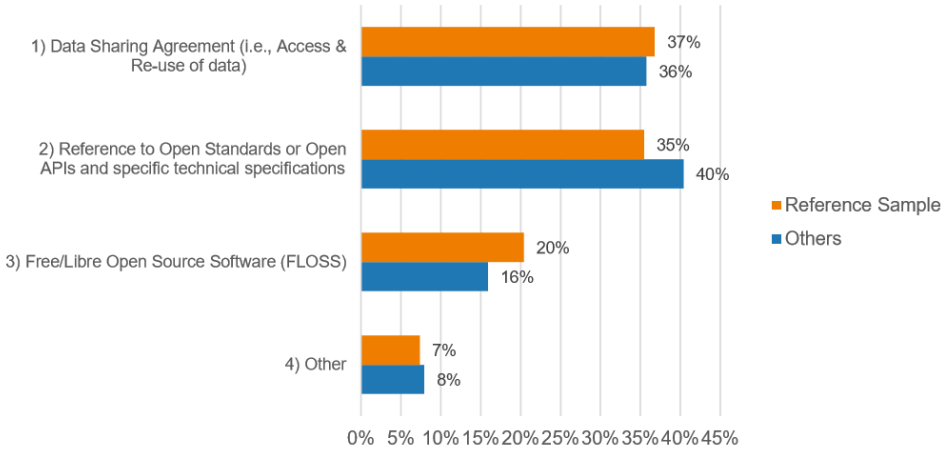
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



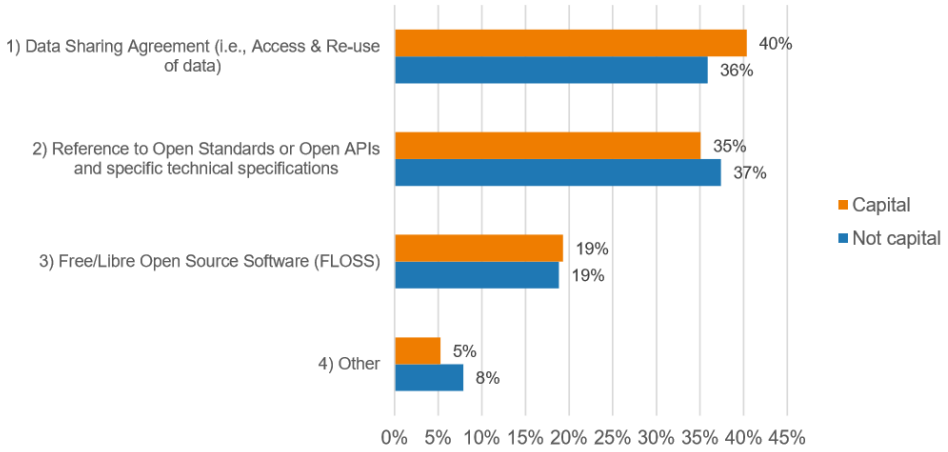
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



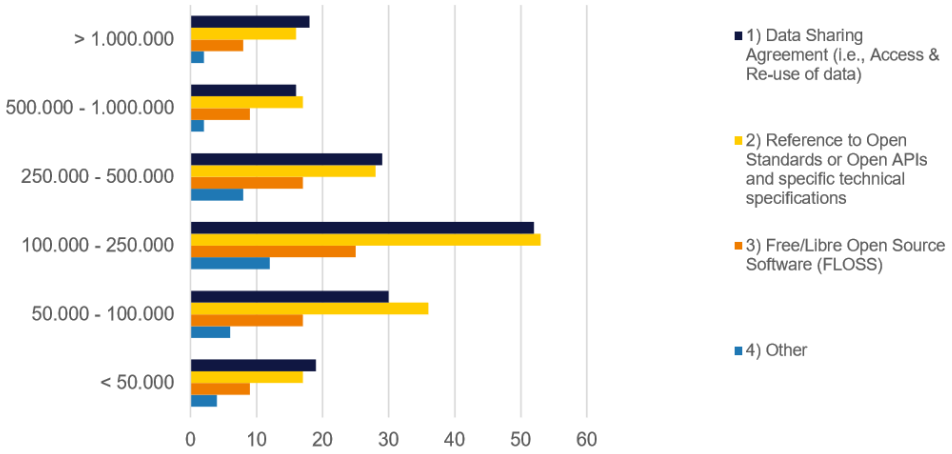
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



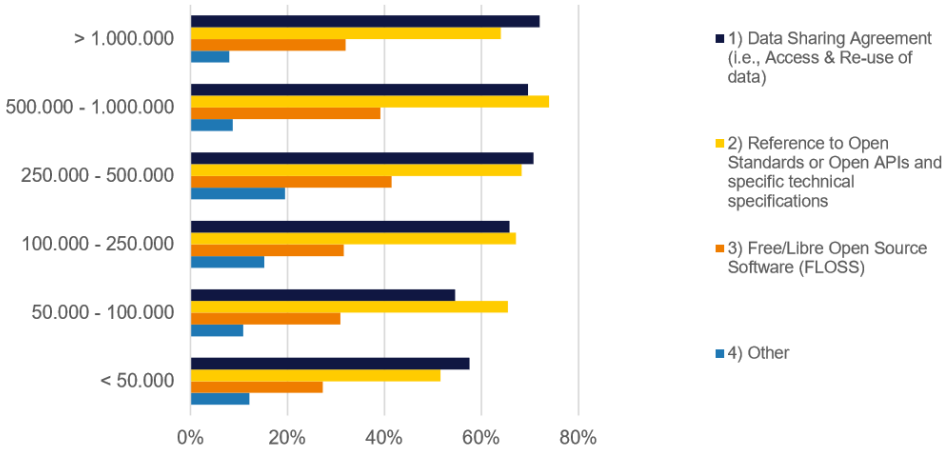
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



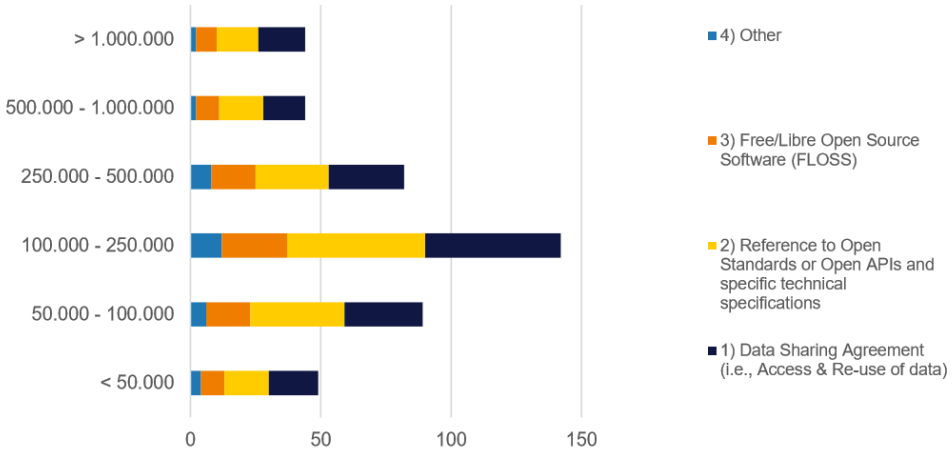
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



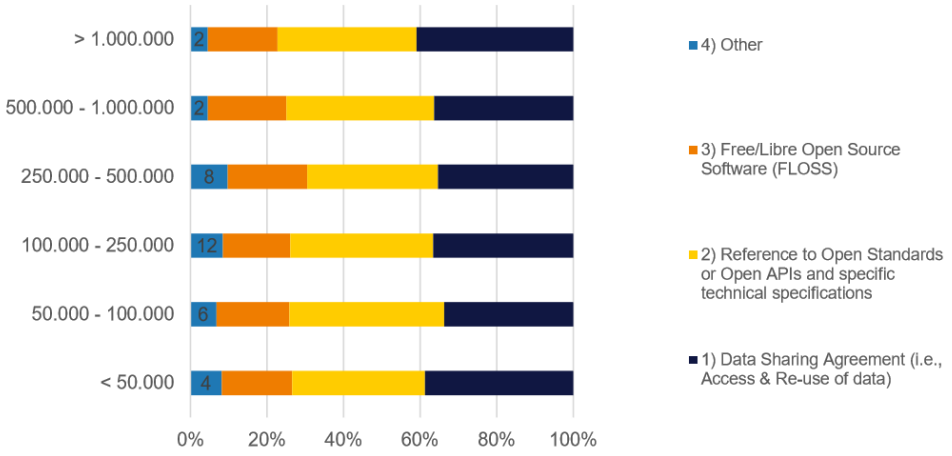
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



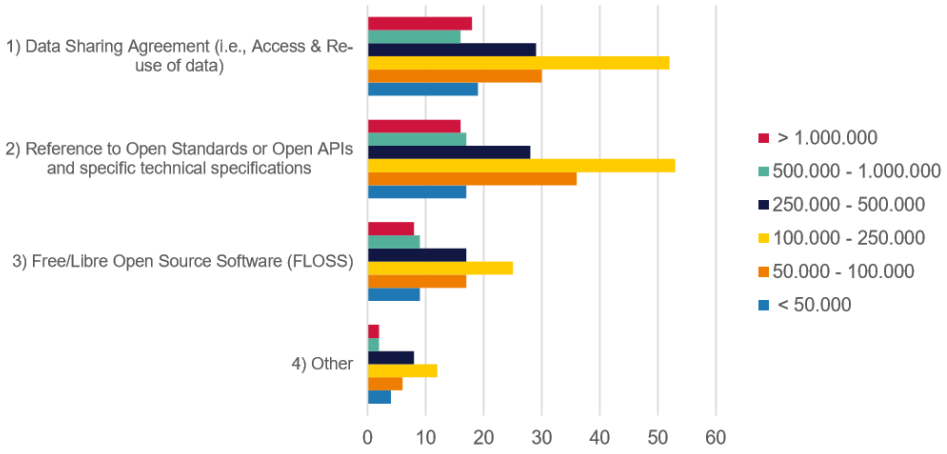
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



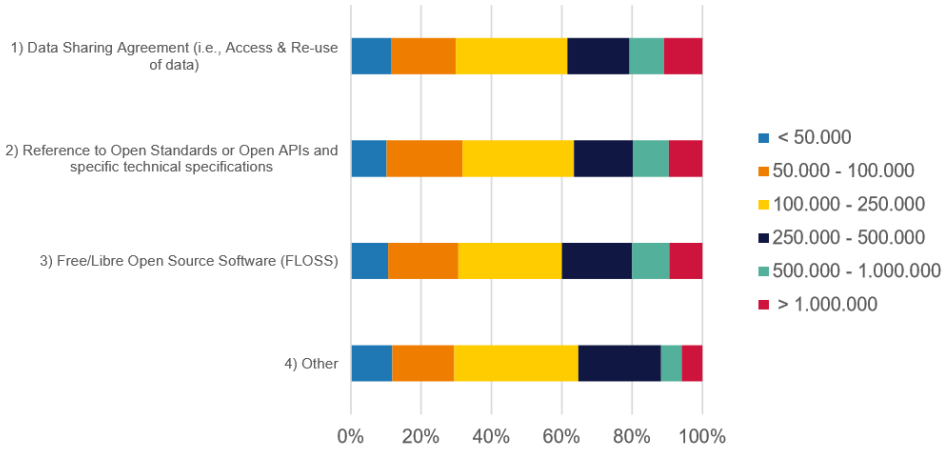
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



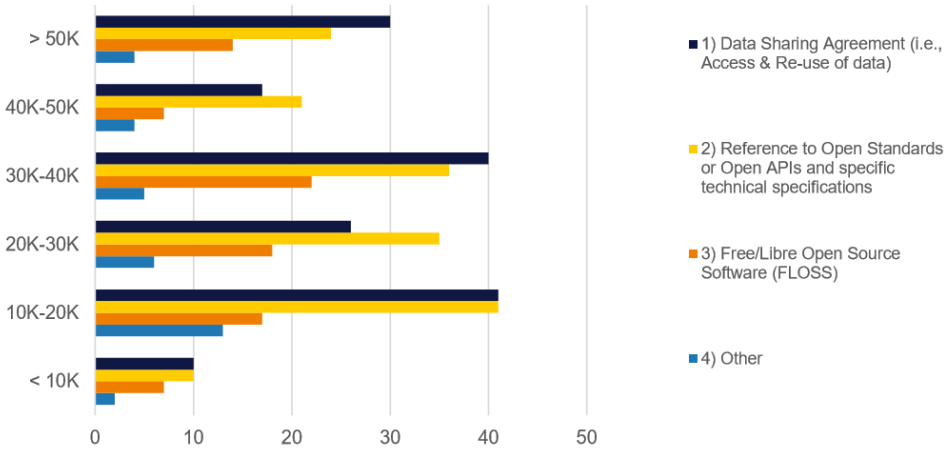
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



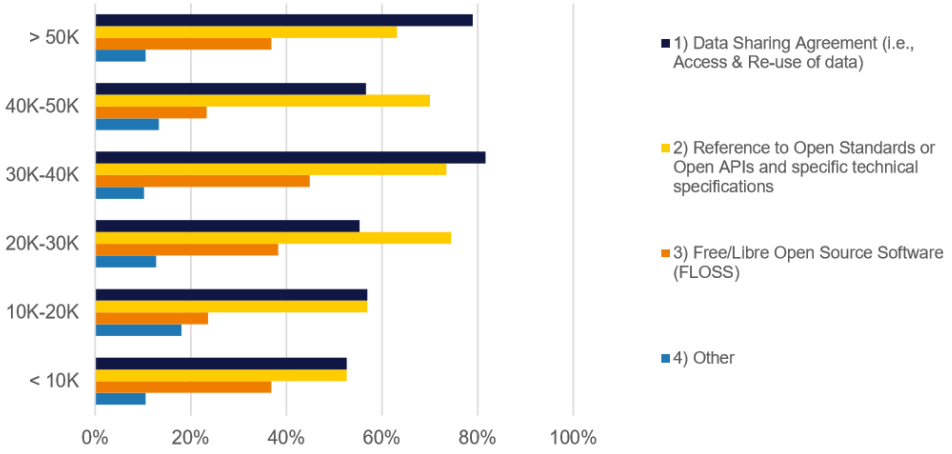
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



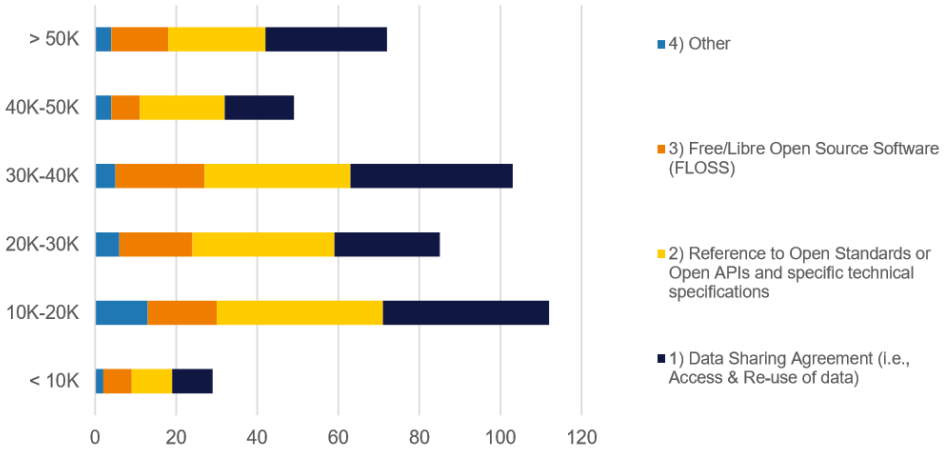
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



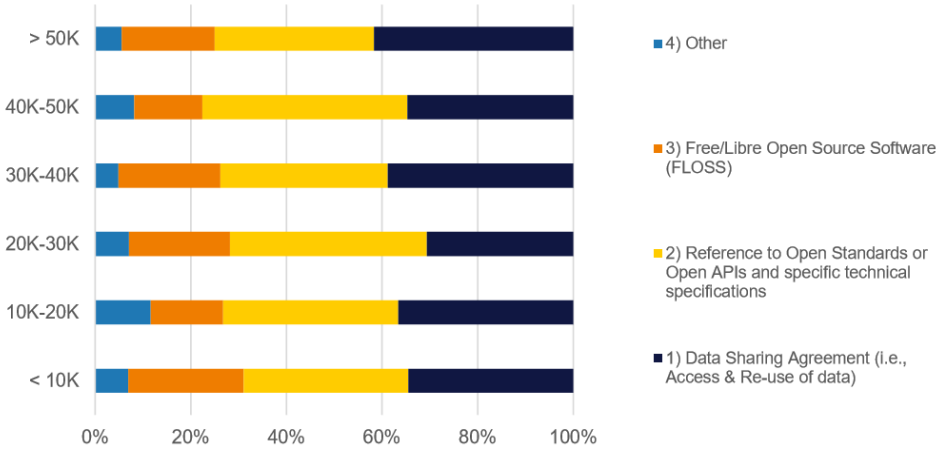
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?

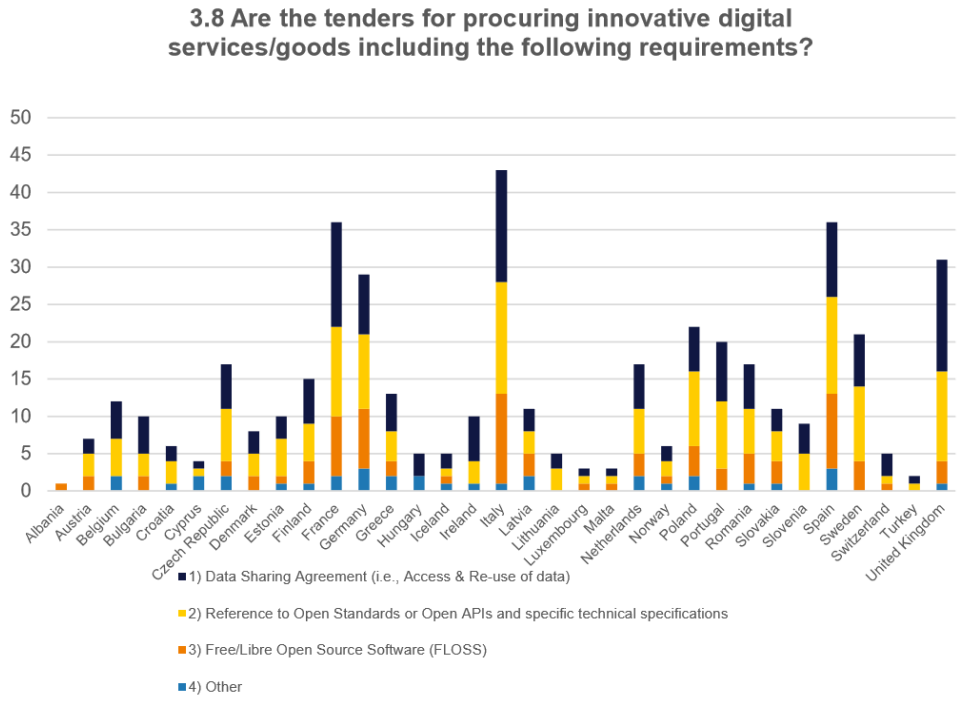


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?

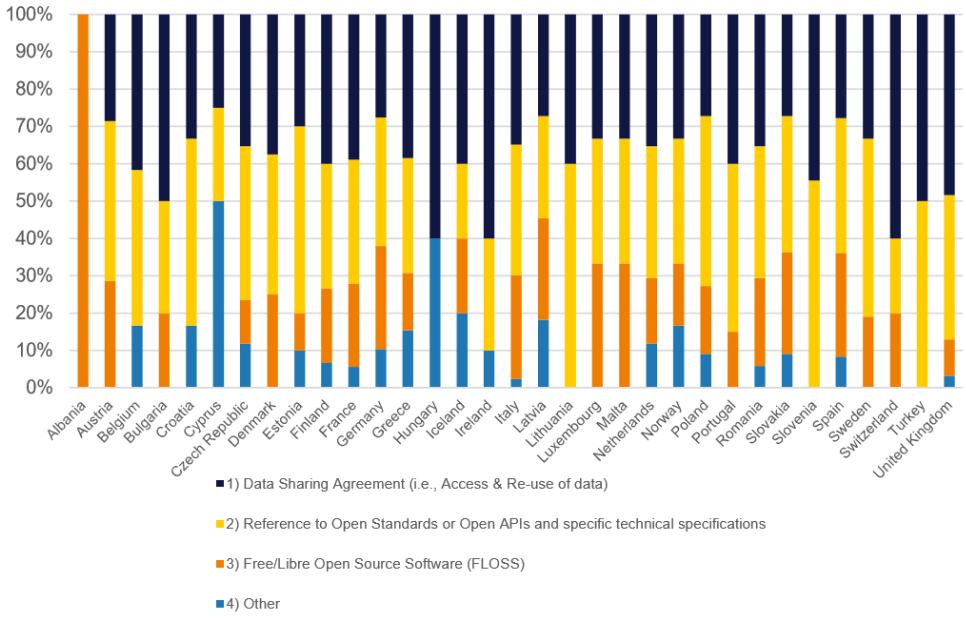


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?

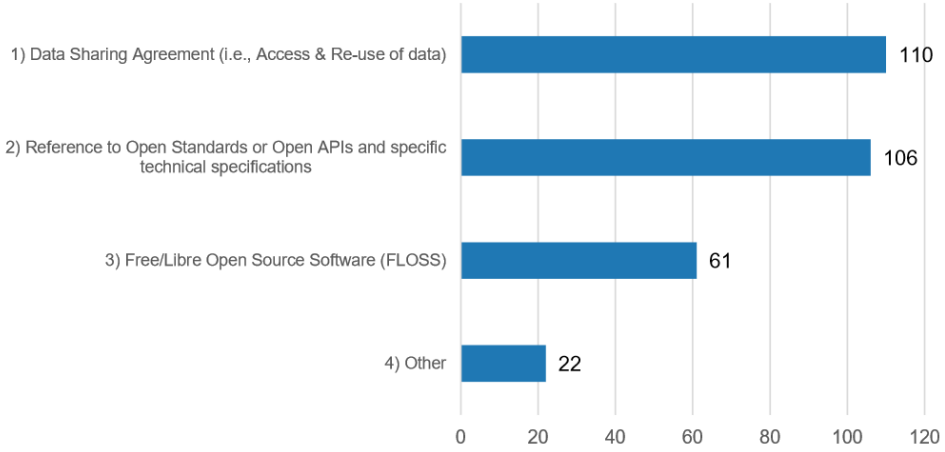
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) Data Sharing Agreement (i.e., Access & Re-use of data)	110	71%
2) Reference to Open Standards or Open APIs and specific technical specifications	106	68%
3) Free/Libre Open Source Software (FLOSS)	61	39%
4) Other	22	14%

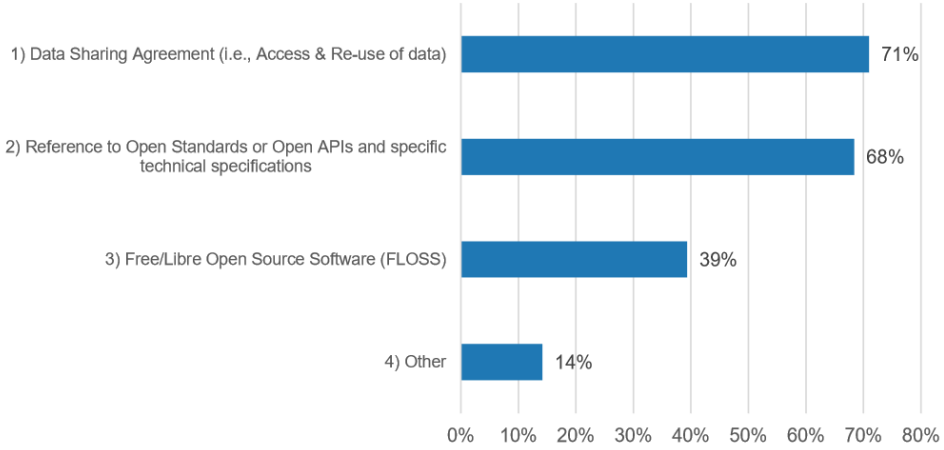
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



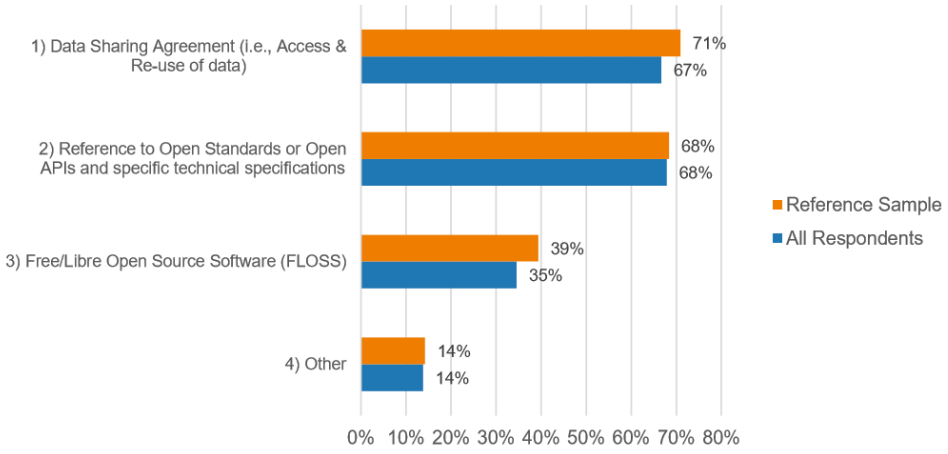
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



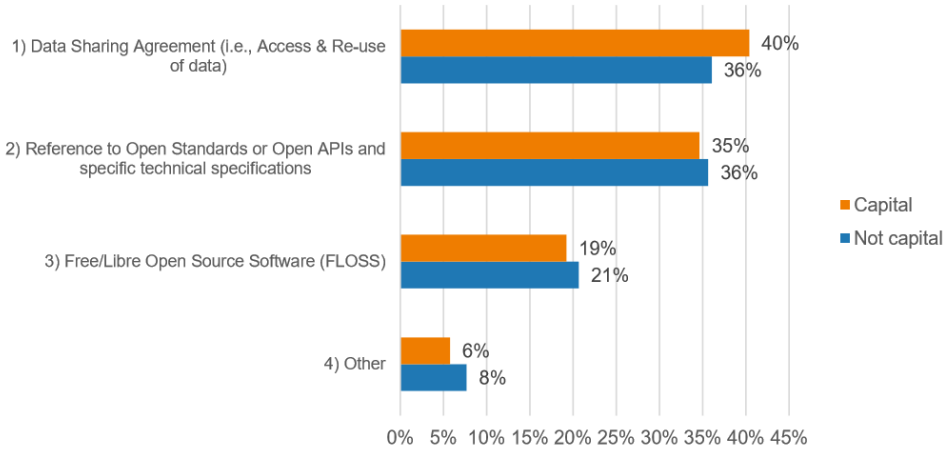
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



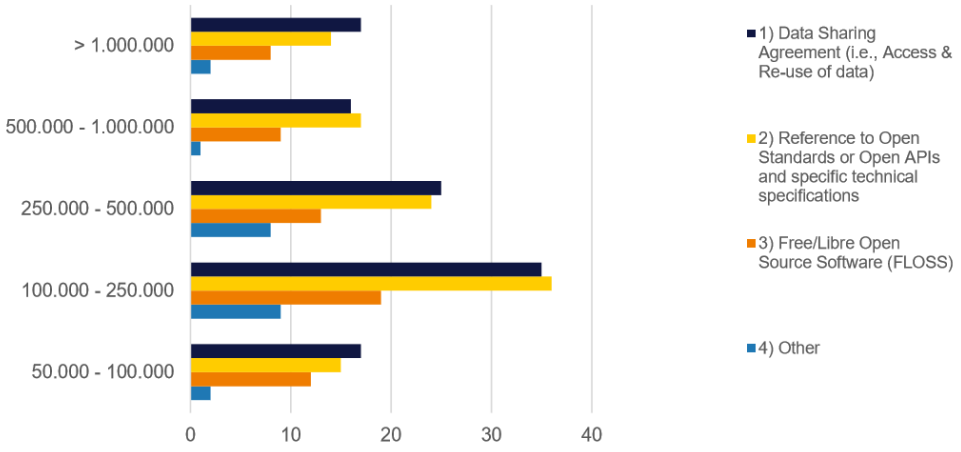
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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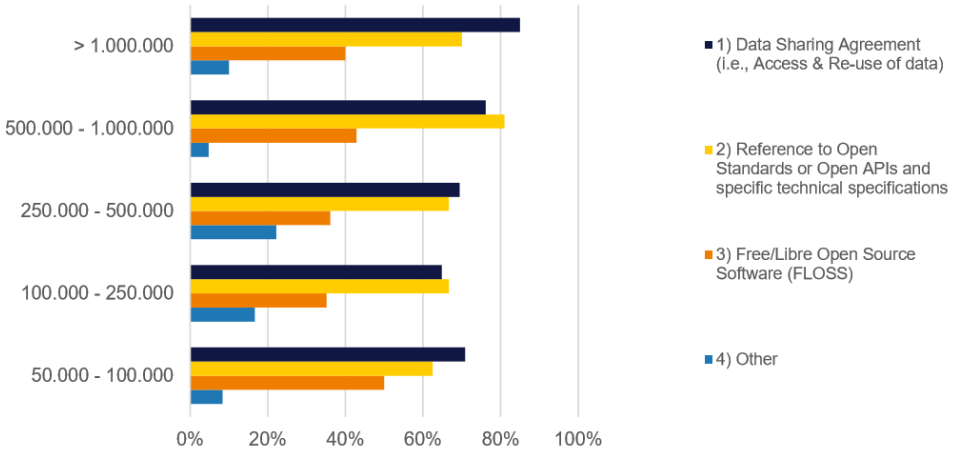
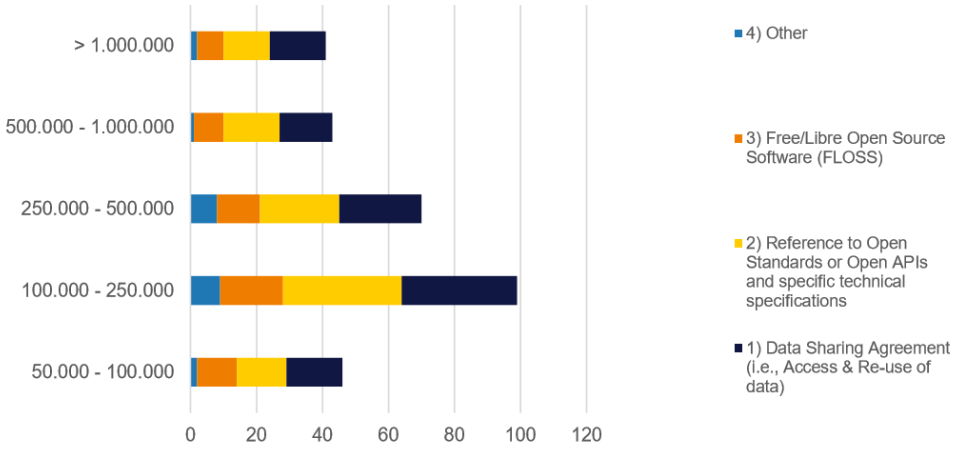


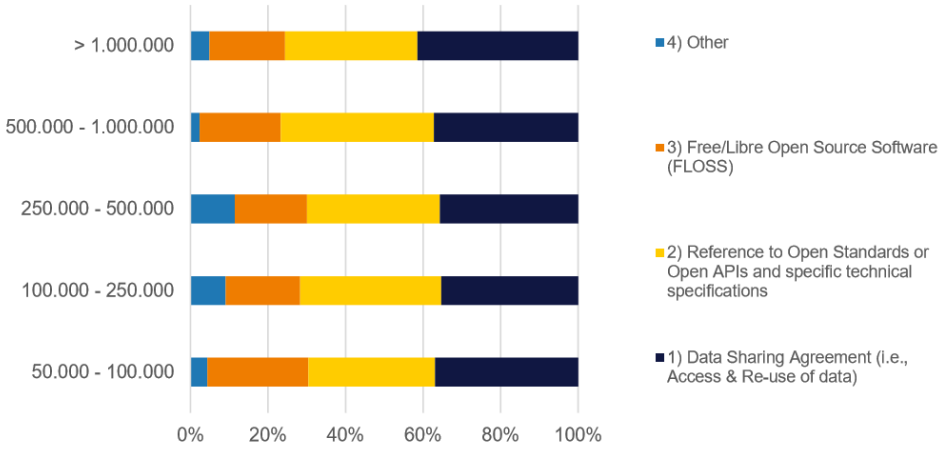
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



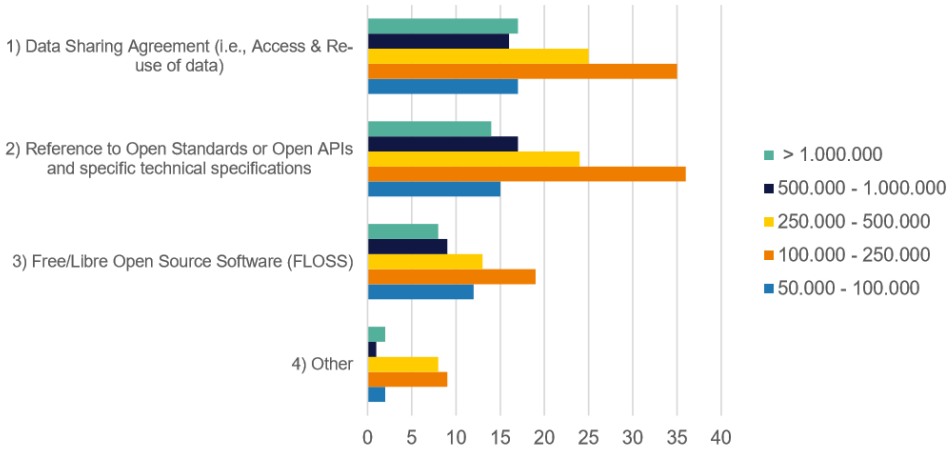
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?

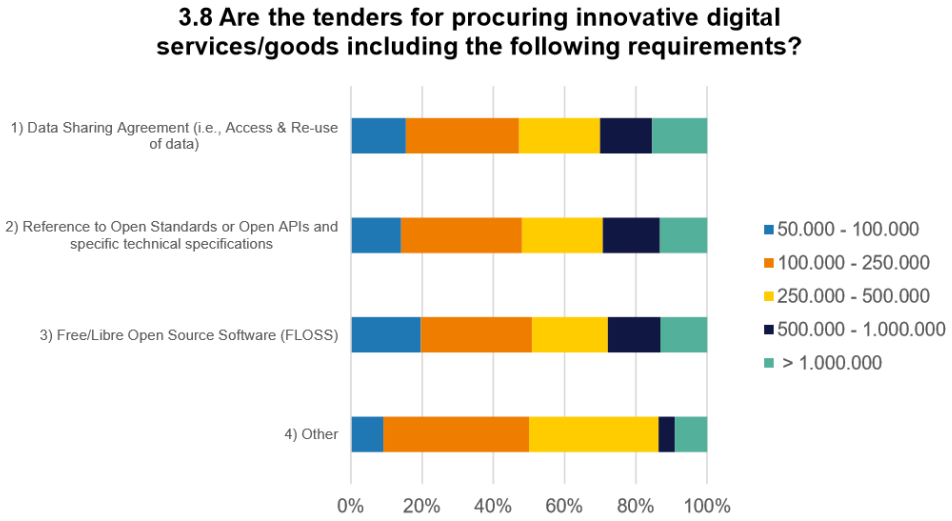


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

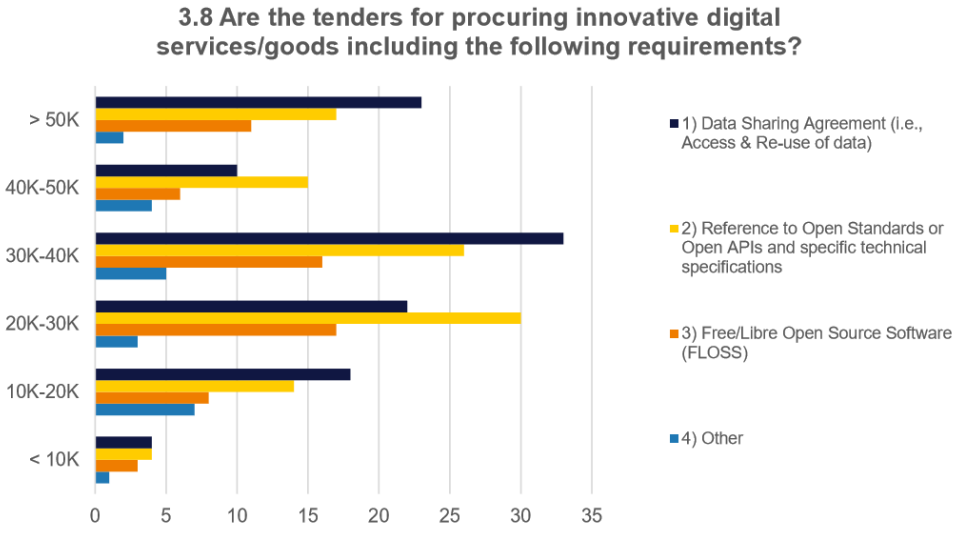
3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

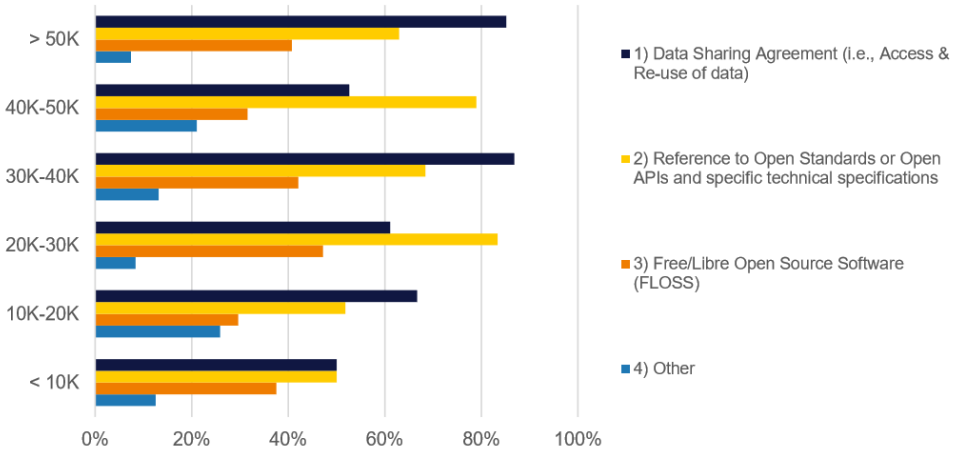


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

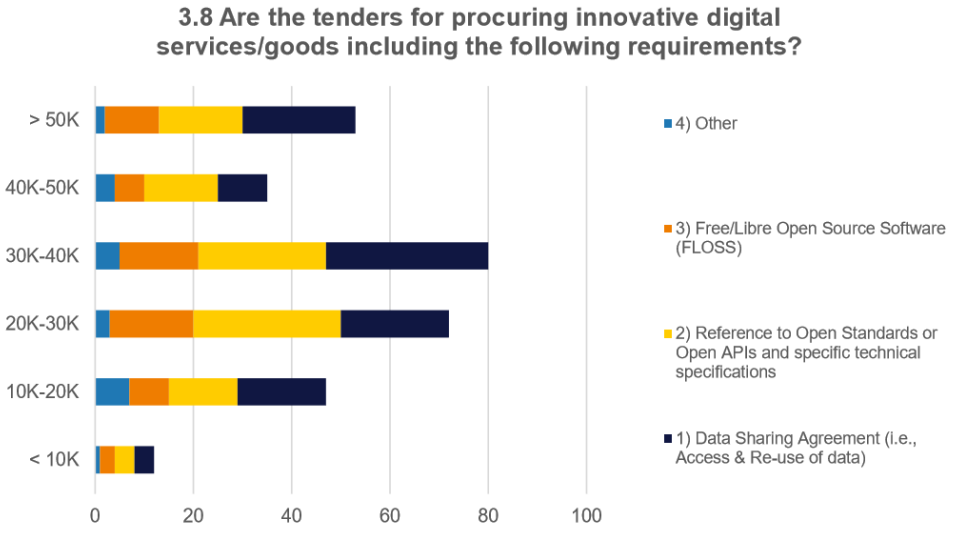


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

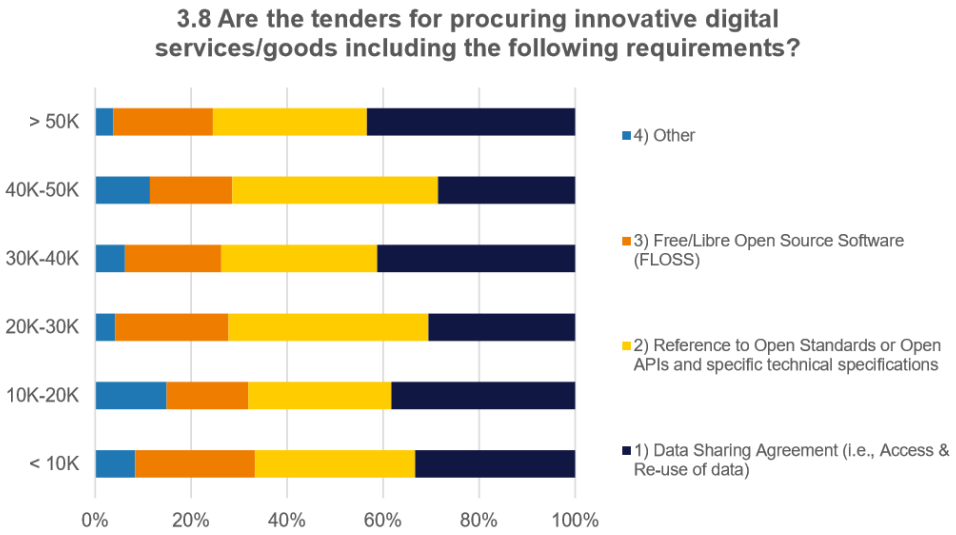
3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



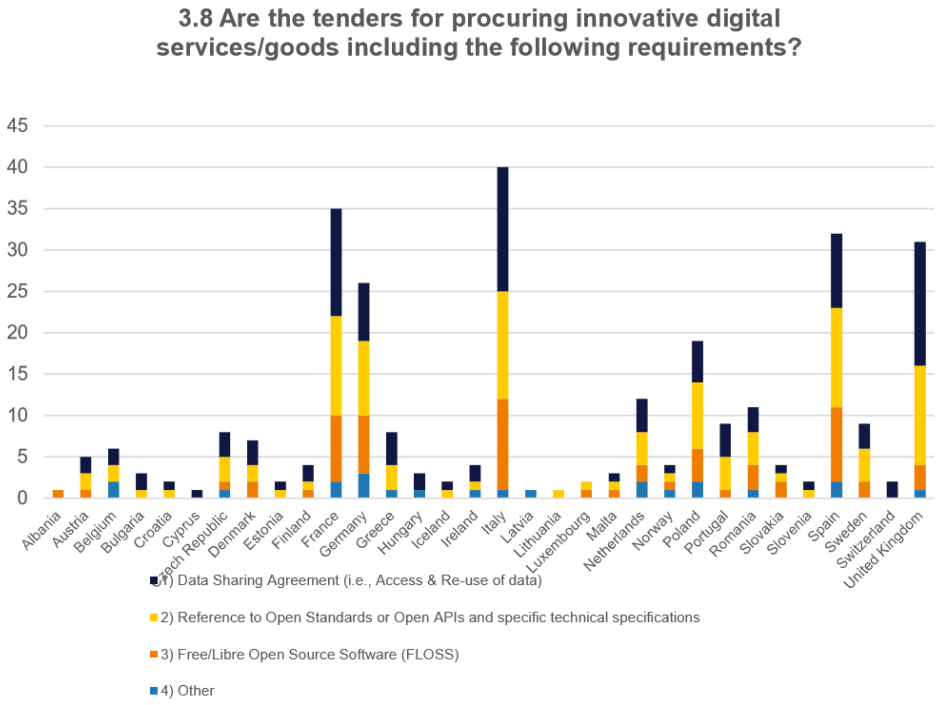
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

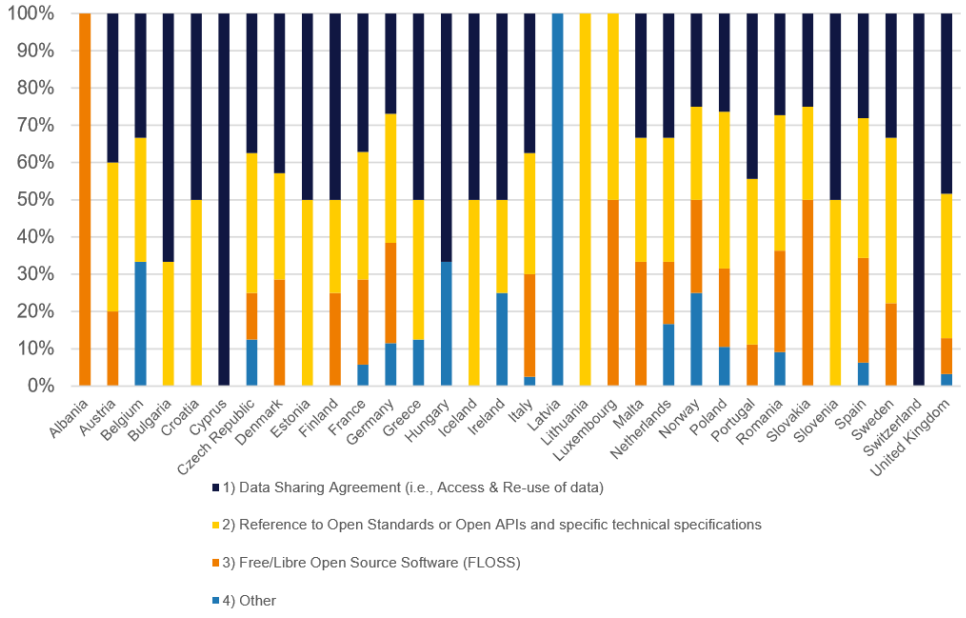


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

3.8 Are the tenders for procuring innovative digital services/goods including the following requirements?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.17 Q_4.1 Does your public authority have:

4.1 Does your public authority have:

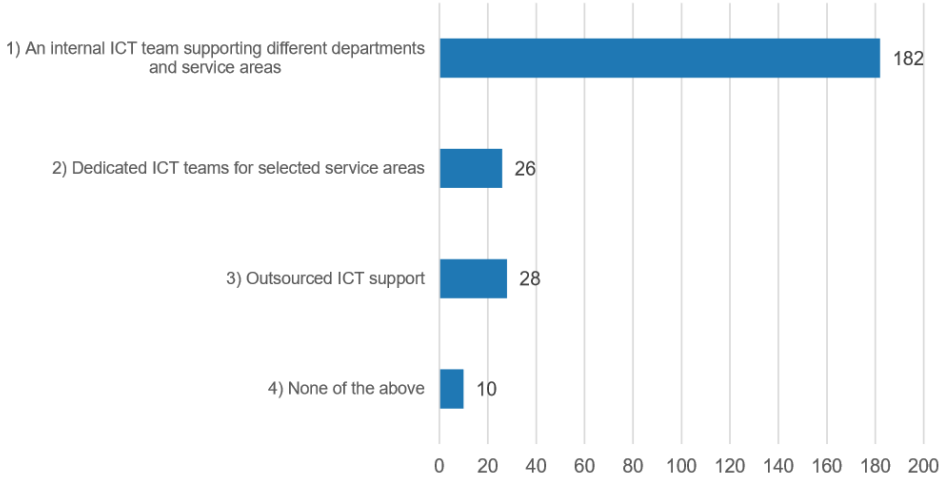
ALL RESPONDENTS

Question type:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer	*Count*	*Percentage**
1) An internal ICT team supporting different departments and service areas	182	74%
2) Dedicated ICT teams for selected service areas	26	11%
3) Outsourced ICT support	28	11%
4) None of the above	10	4%

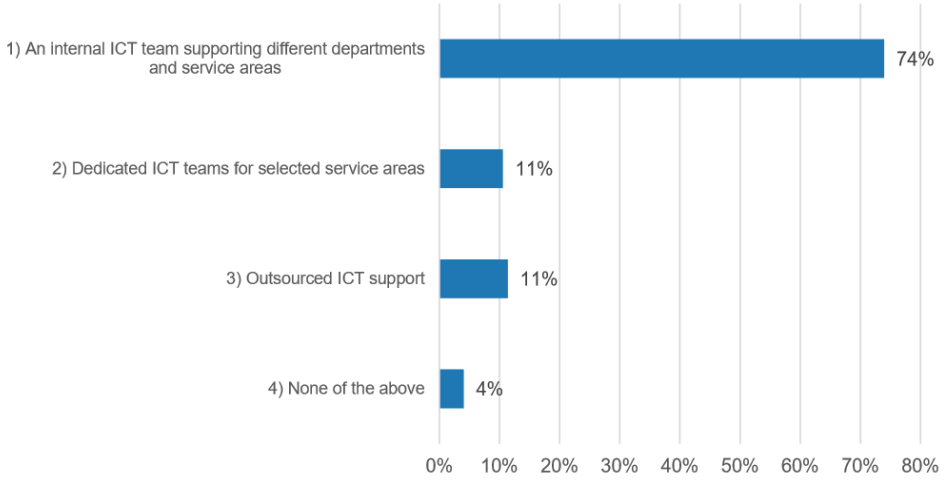
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.1 Does your public authority have:



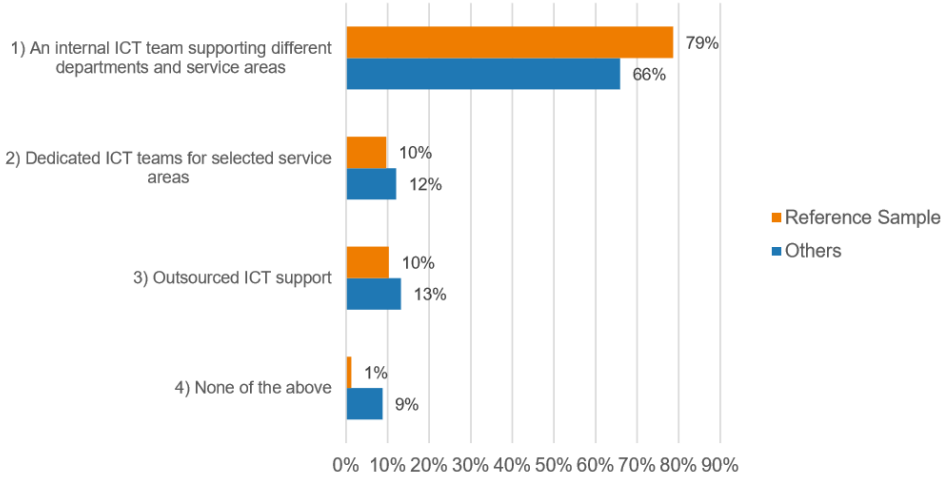
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

4.1 Does your public authority have:



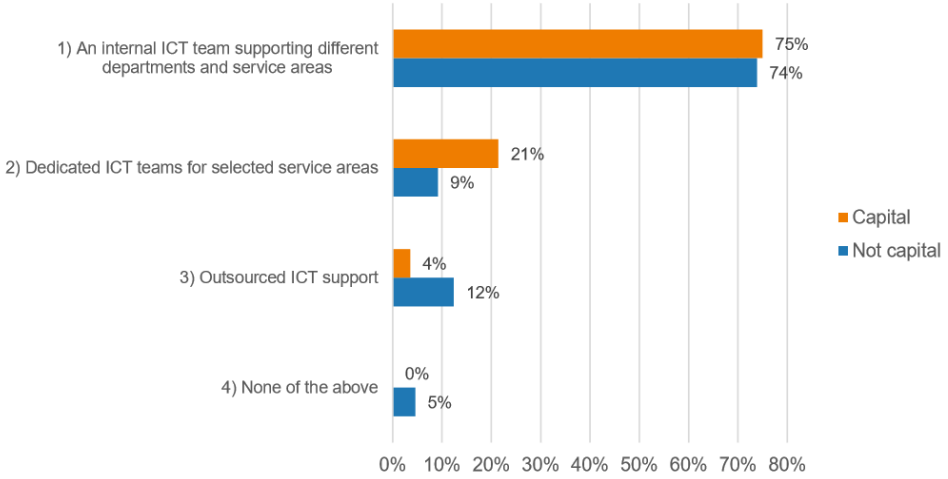
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

4.1 Does your public authority have:



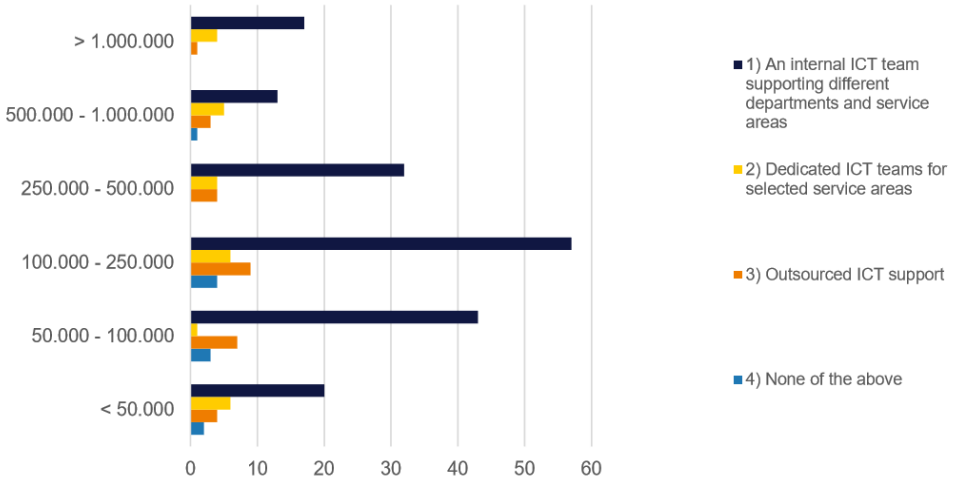
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

4.1 Does your public authority have:



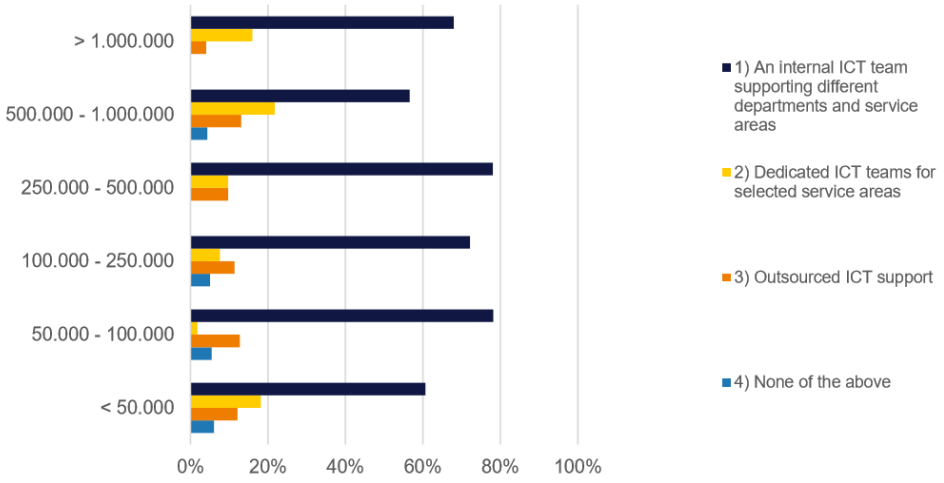
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

4.1 Does your public authority have:



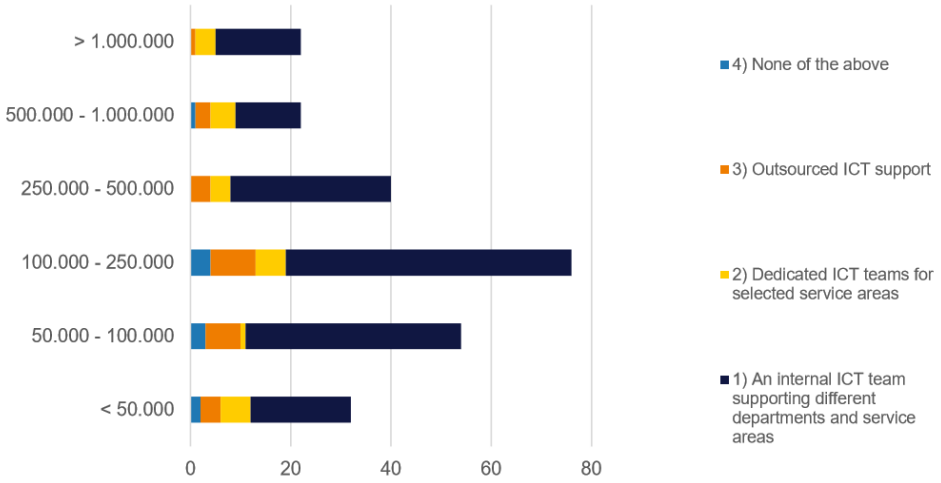
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

4.1 Does your public authority have:



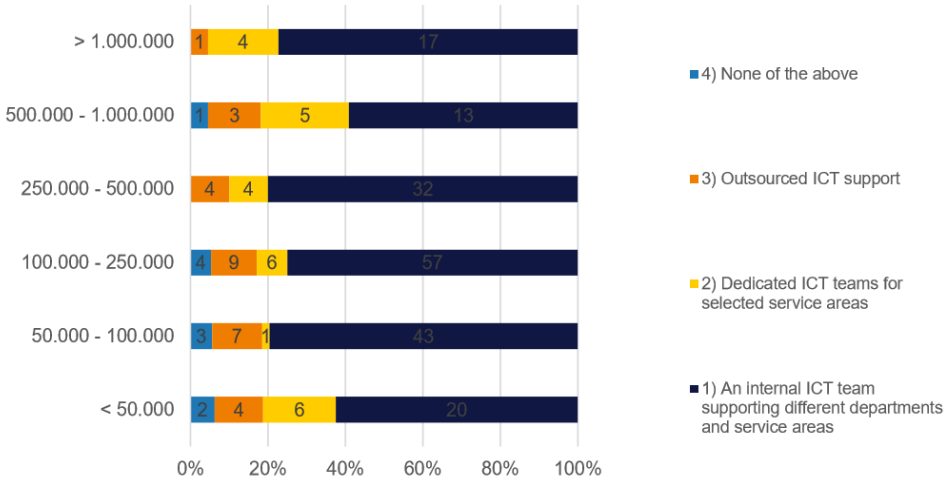
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

4.1 Does your public authority have:



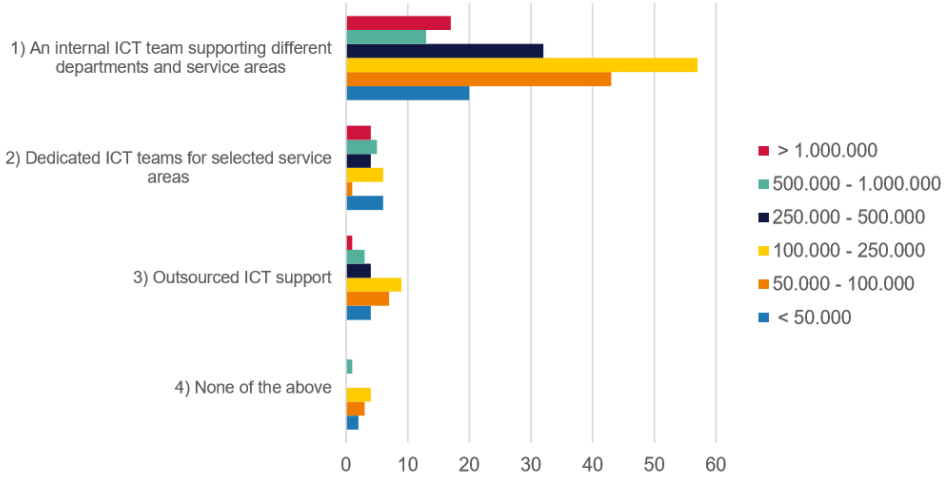
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

4.1 Does your public authority have:



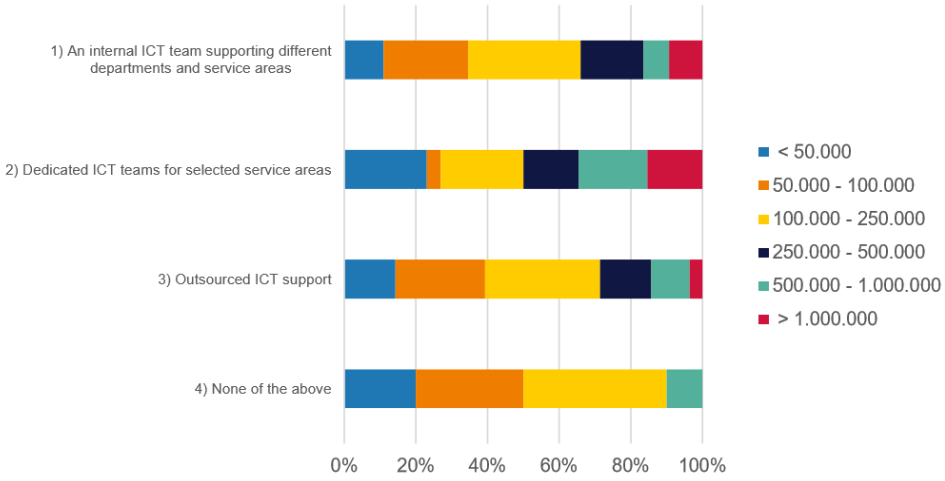
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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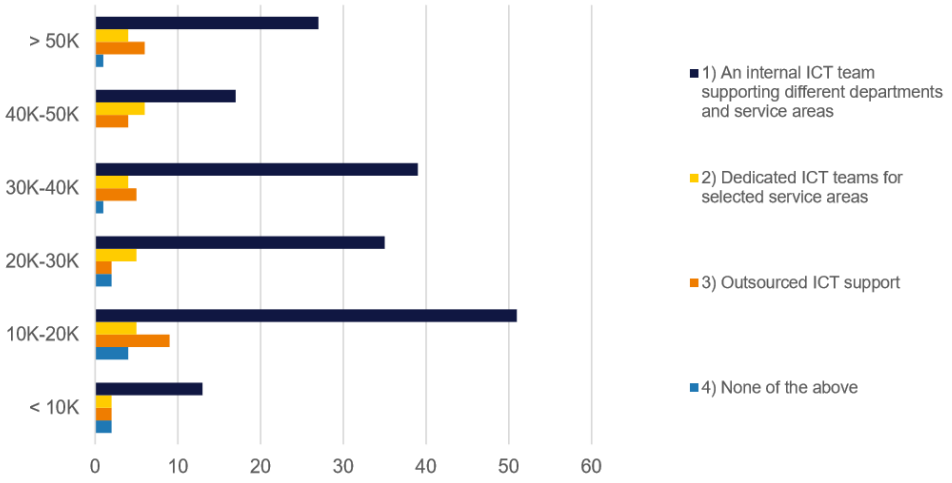
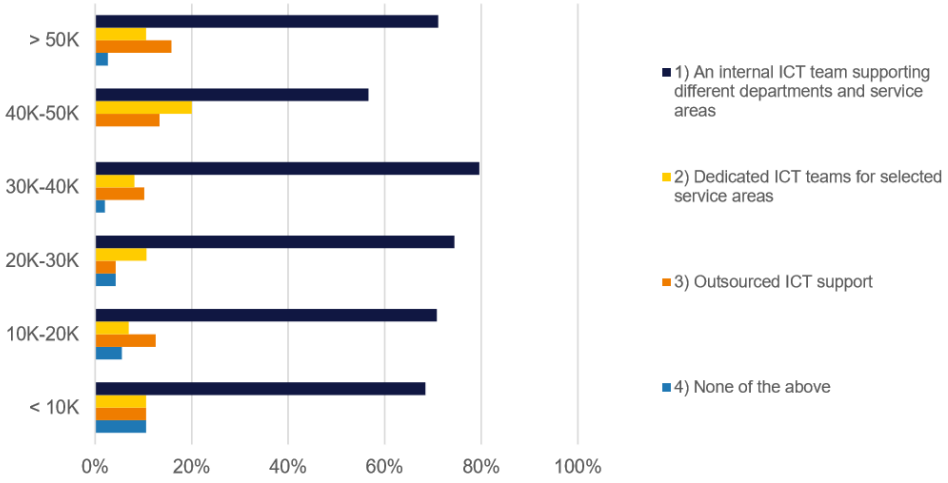


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

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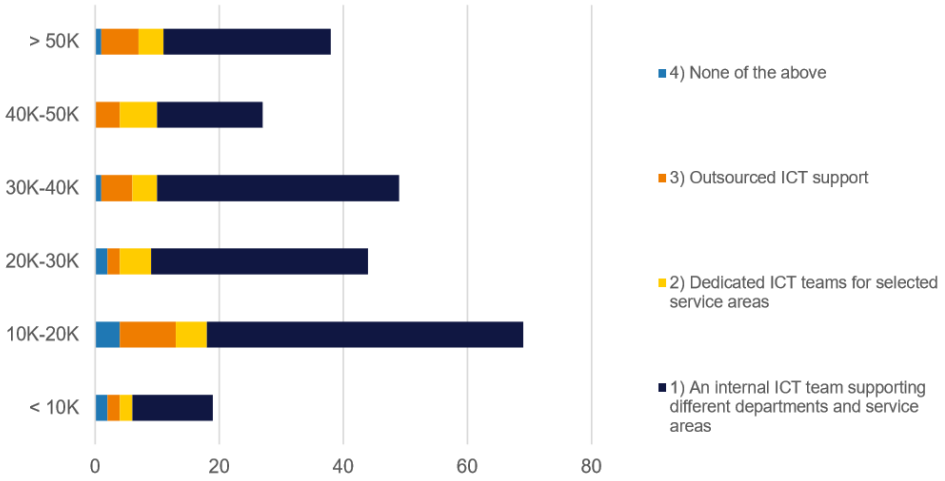

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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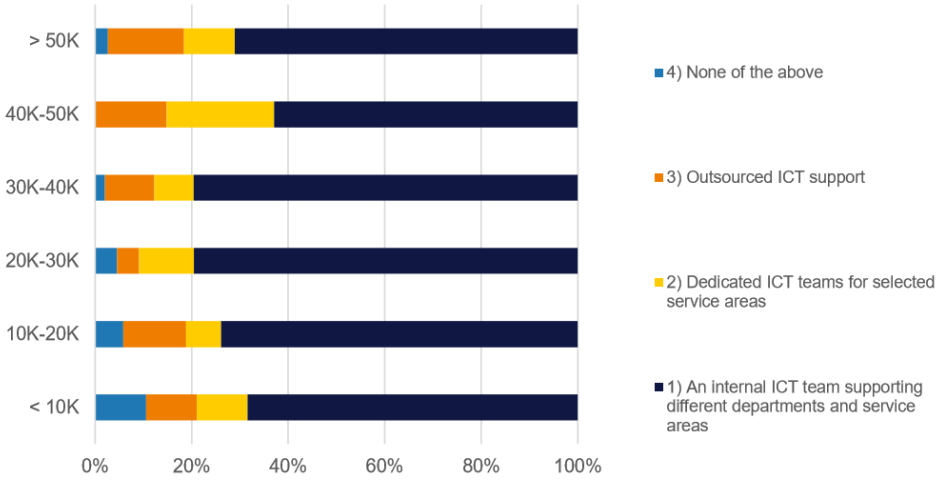
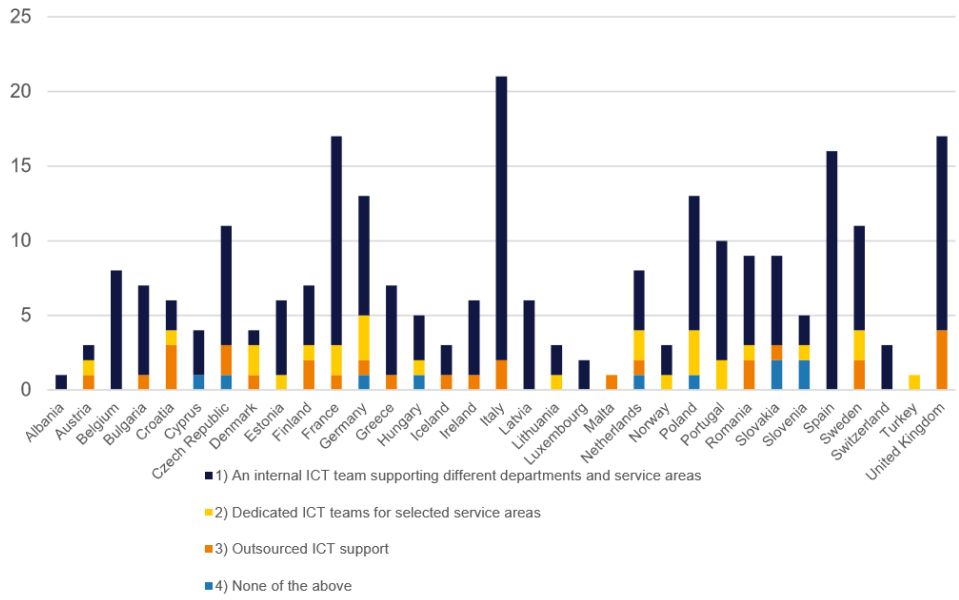


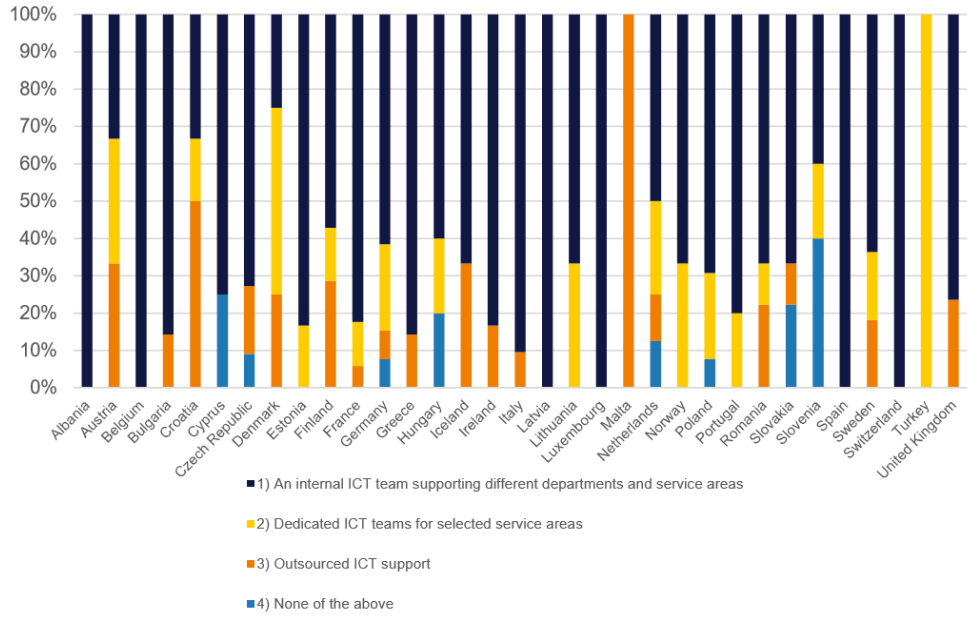
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

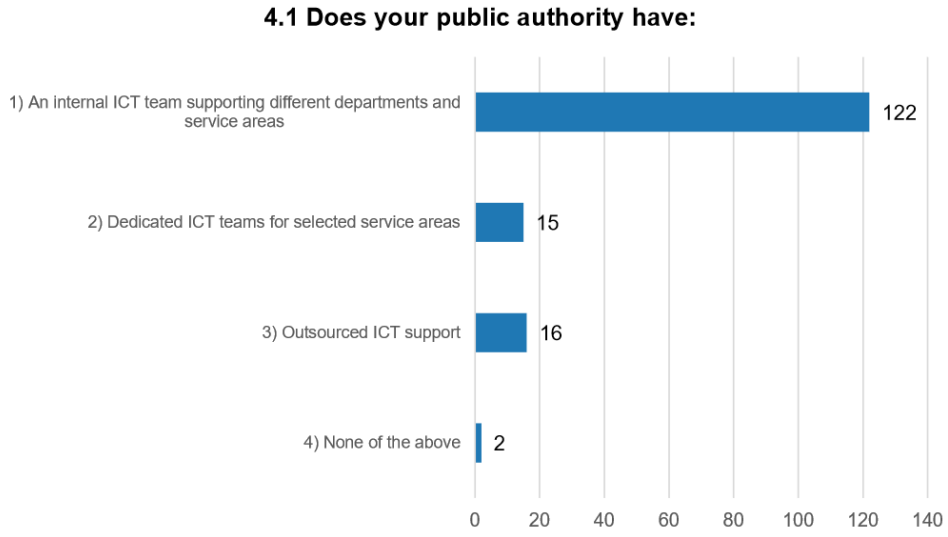
4.1 Does your public authority have:

REFERENCE SAMPLE

Question type:	***Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

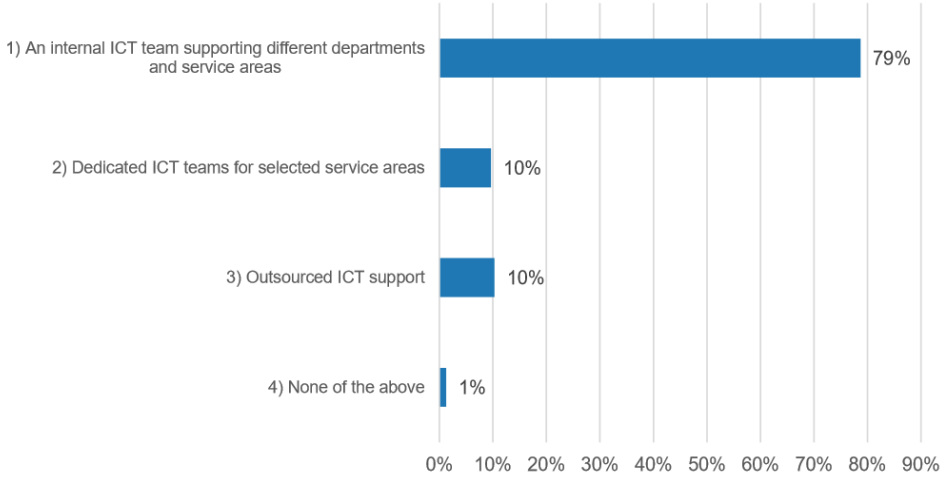
Answer	*Count*	*Percentage**
1) An internal ICT team supporting different departments and service areas	122	79%
2) Dedicated ICT teams for selected service areas	15	10%
3) Outsourced ICT support	16	10%
4) None of the above	2	1%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*



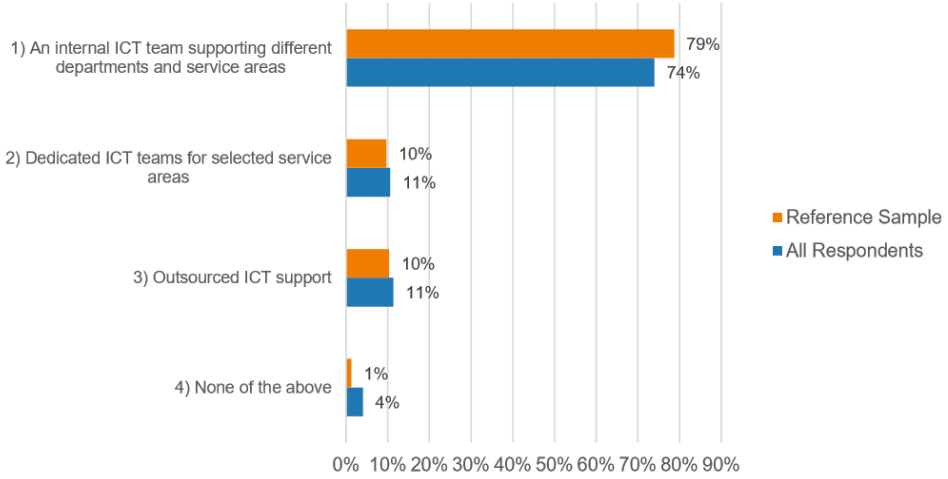
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
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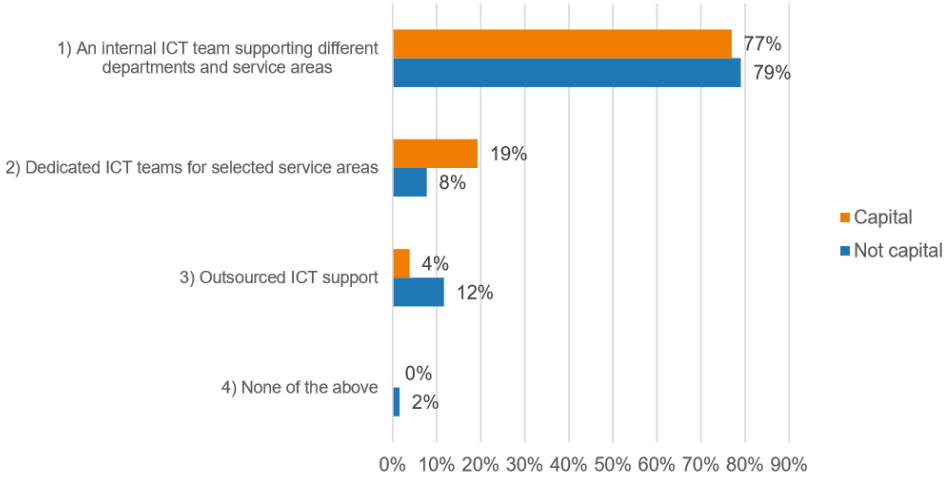
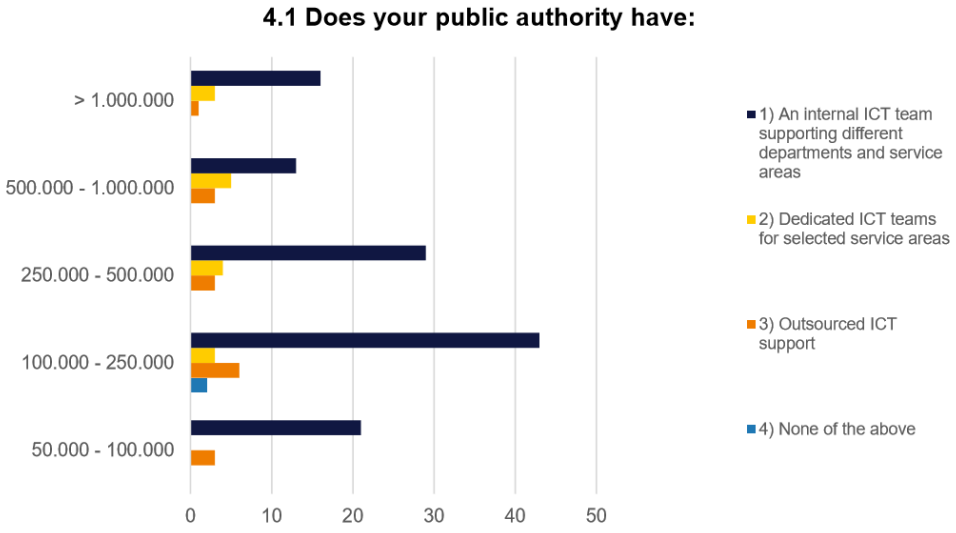


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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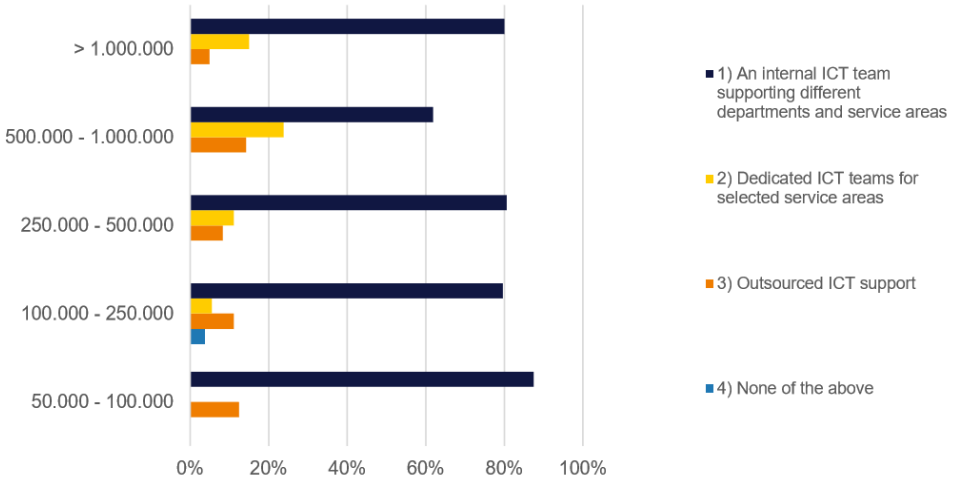
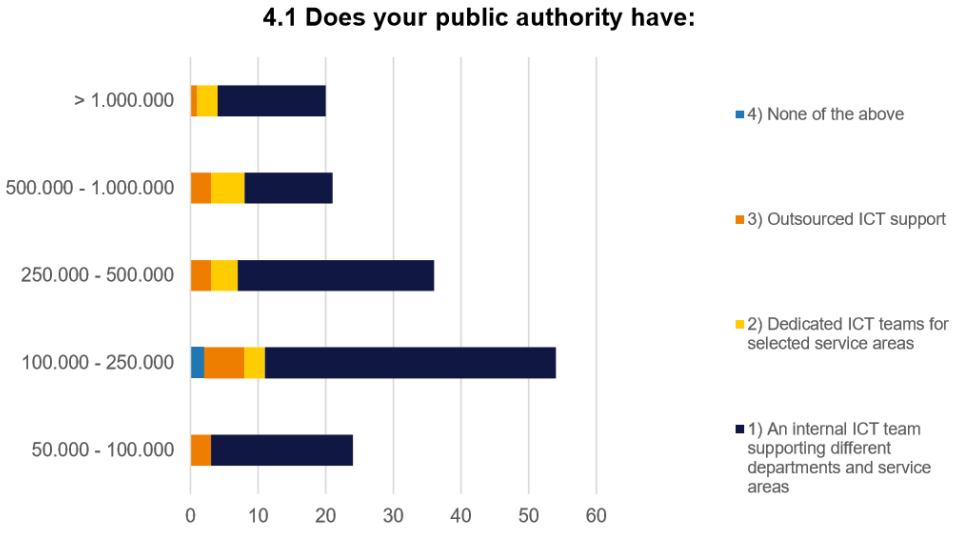


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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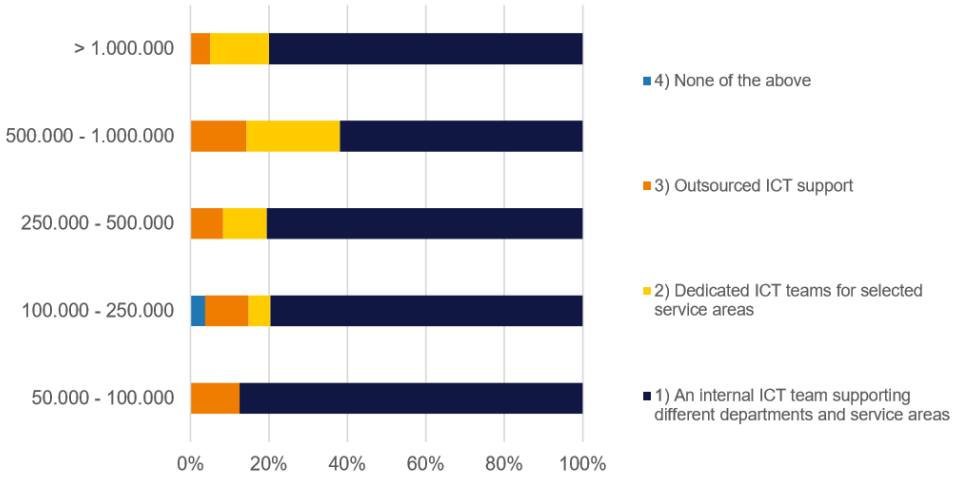
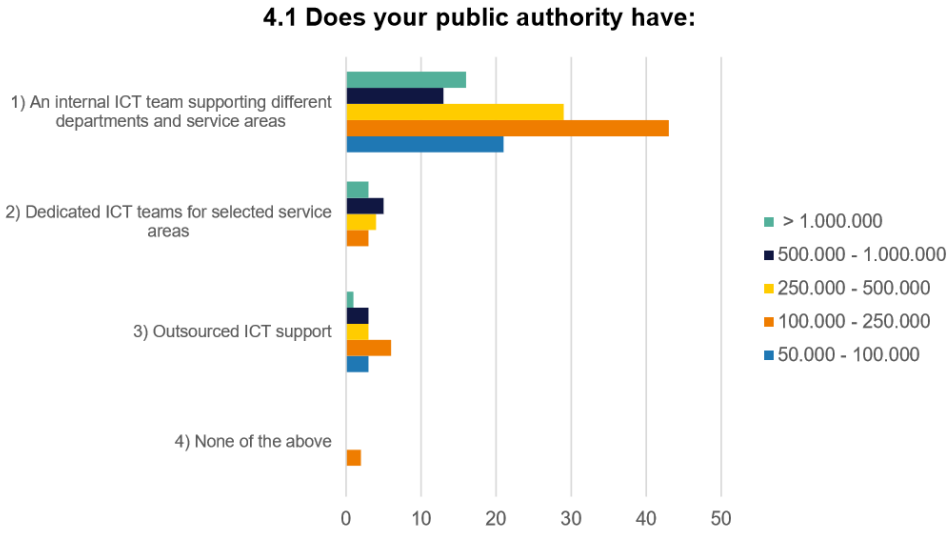


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
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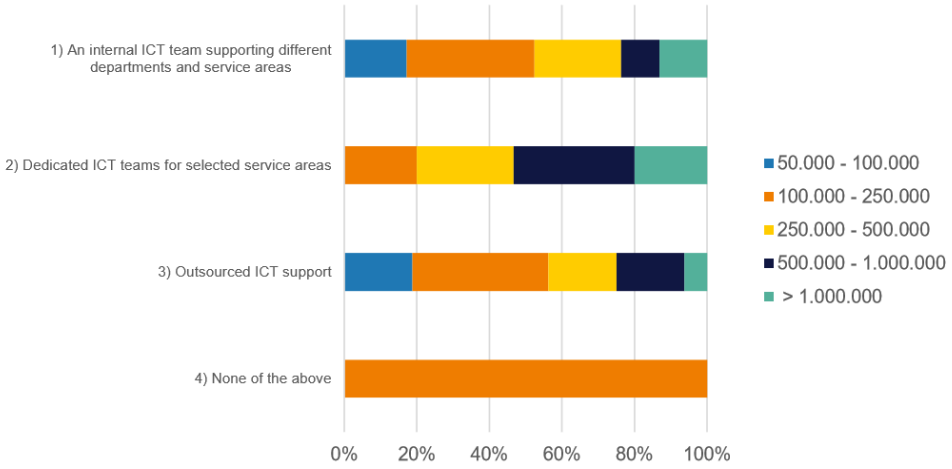
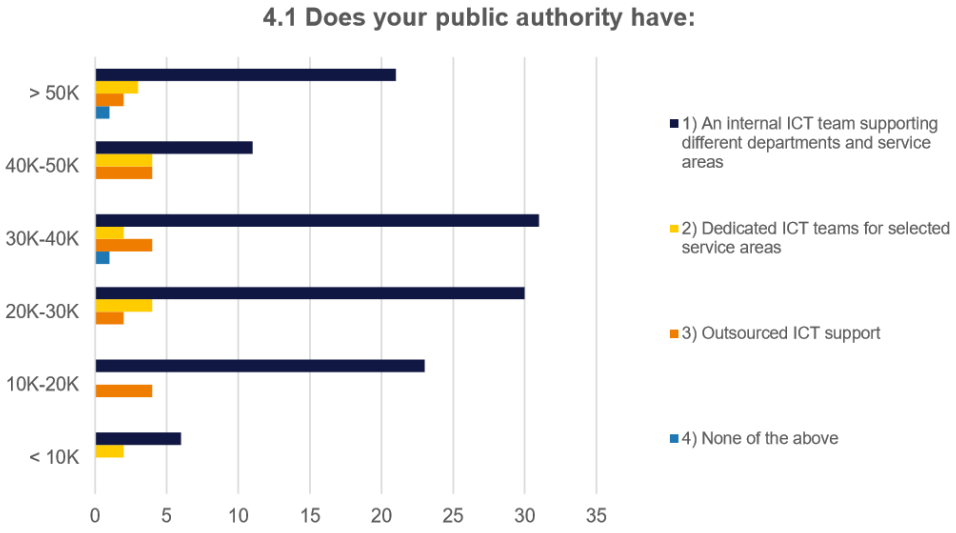
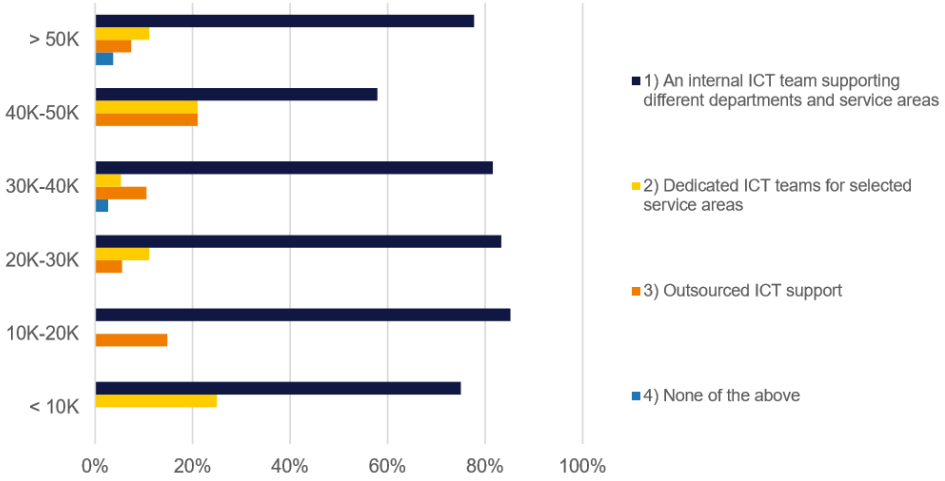


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

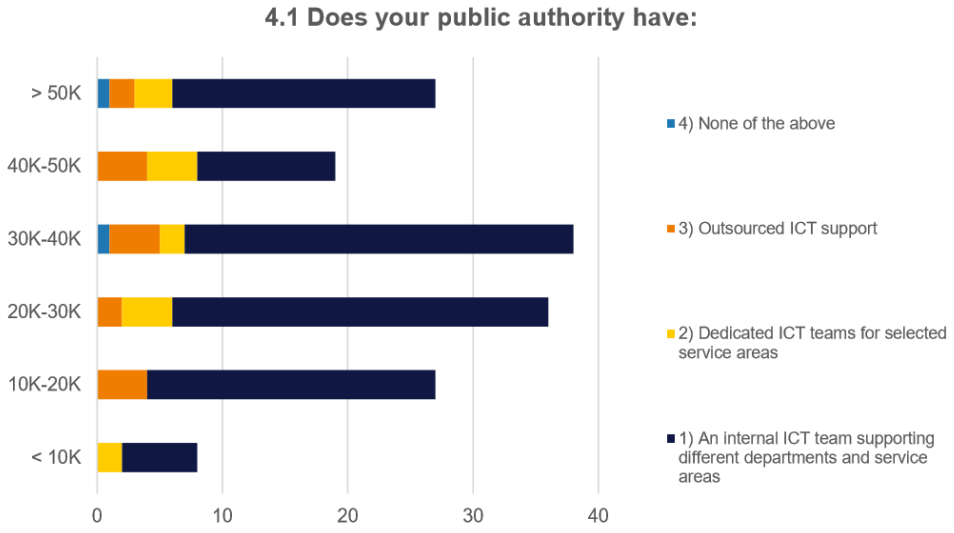


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

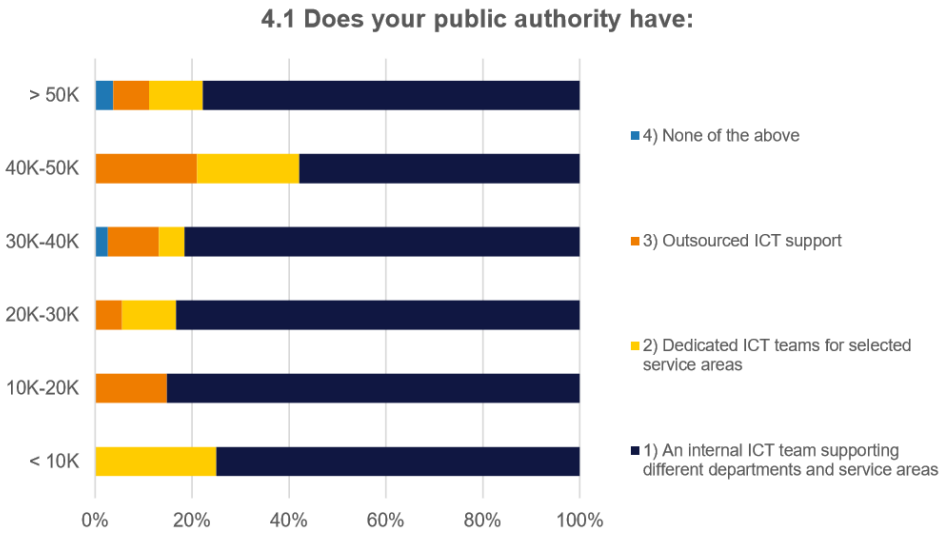
4.1 Does your public authority have:



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

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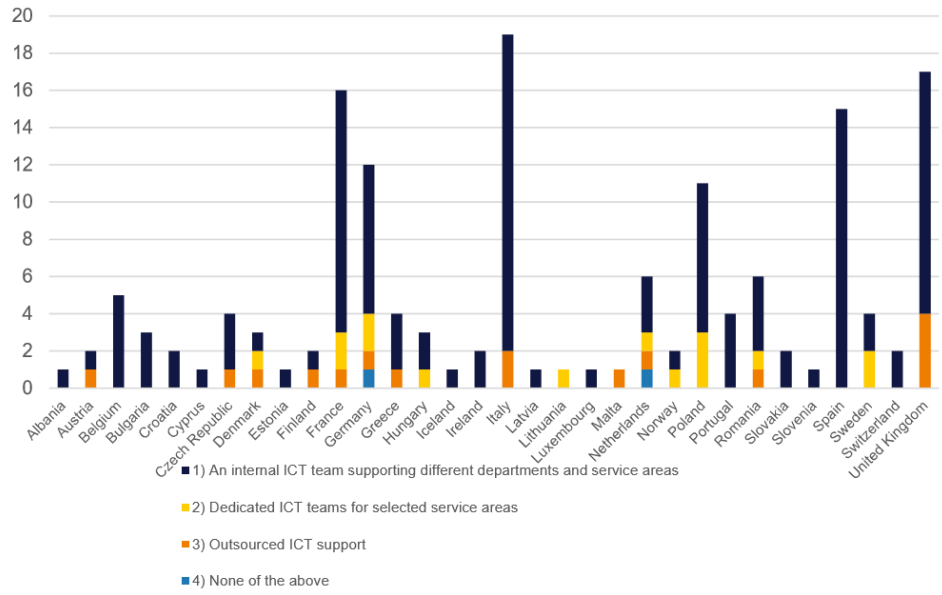

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count

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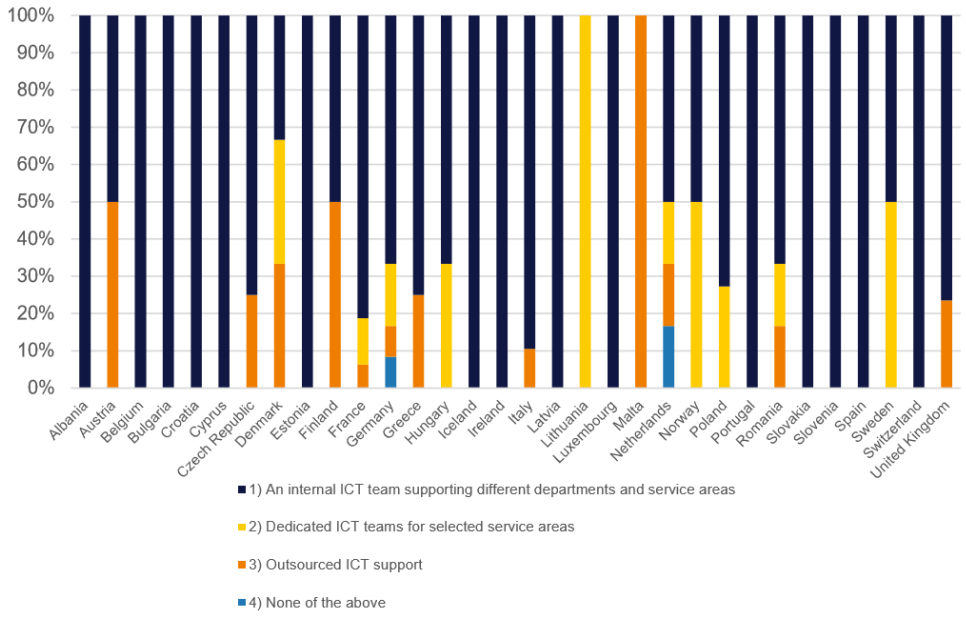


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.18 Q_4.3 Does your public authority encourage the use of Free/Libre and open source Software (FLOSS)?

4.3 Does your public authority encourage the use of Free/Libre and Open Source Software (FLOSS)?

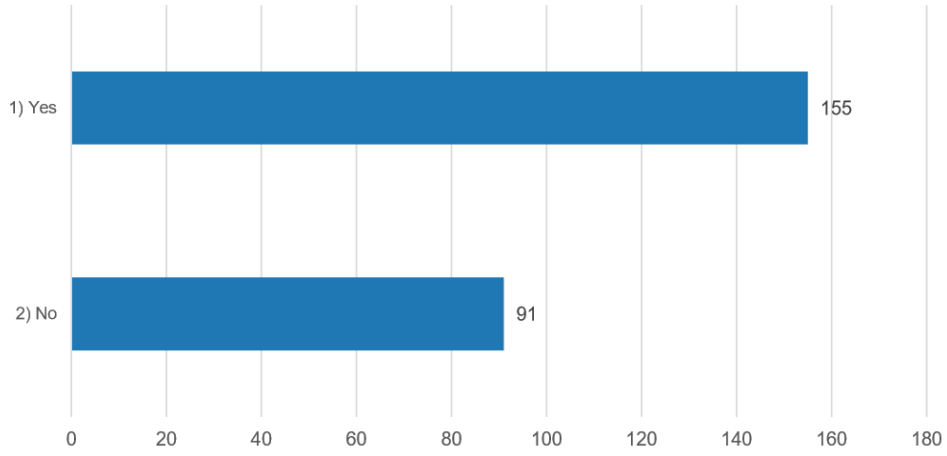
ALL RESPONDENTS

Question type: ***Single choice - Binary***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	155	63%
2) No	91	37%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.3 Does your public authority encourage the use of Free/Libre and Open Source Software (FLOSS)?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Count

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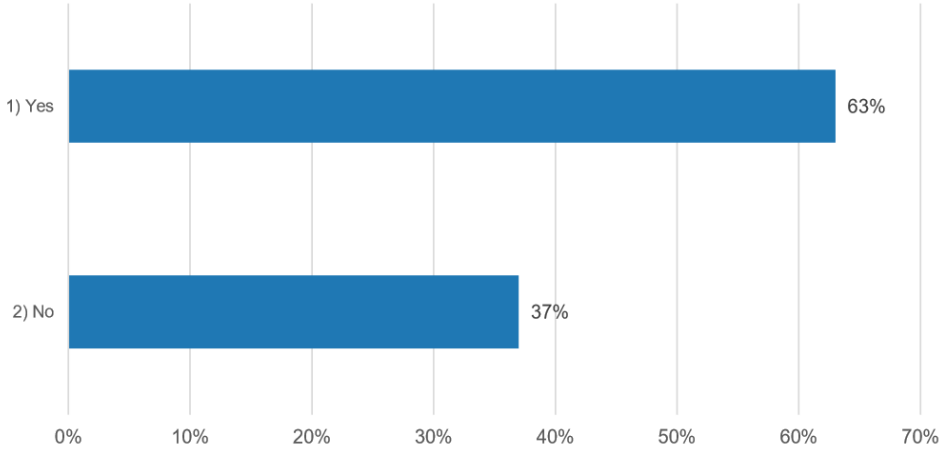

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Percentage

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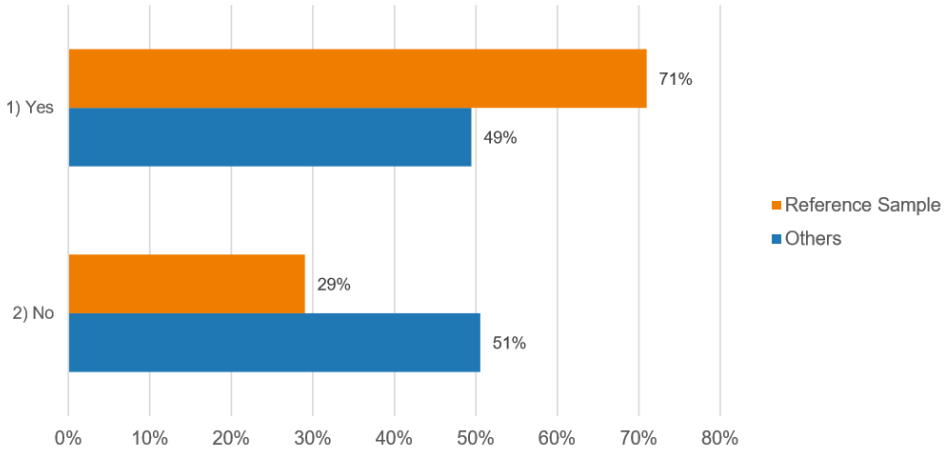

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Reference Sample	Percentage

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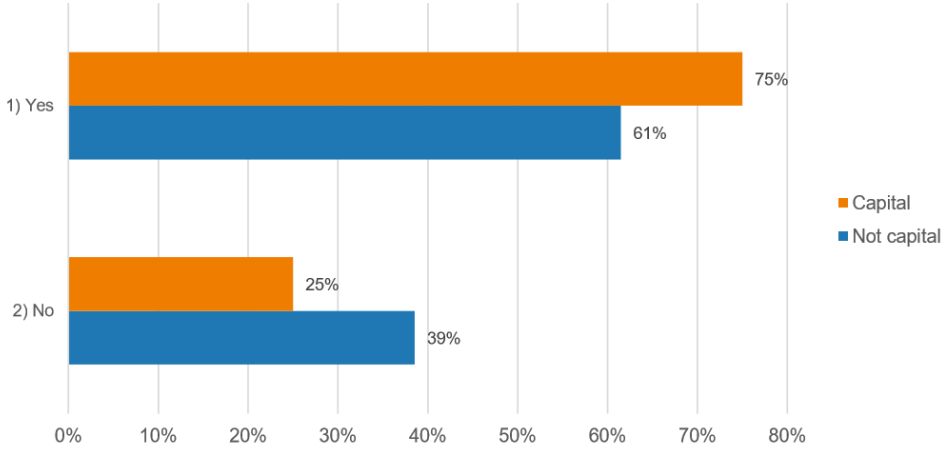

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Capital cities	Percentage

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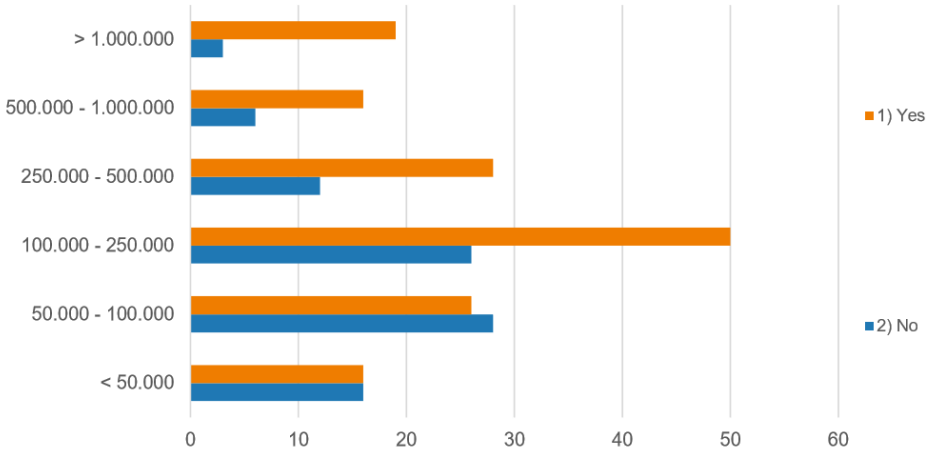

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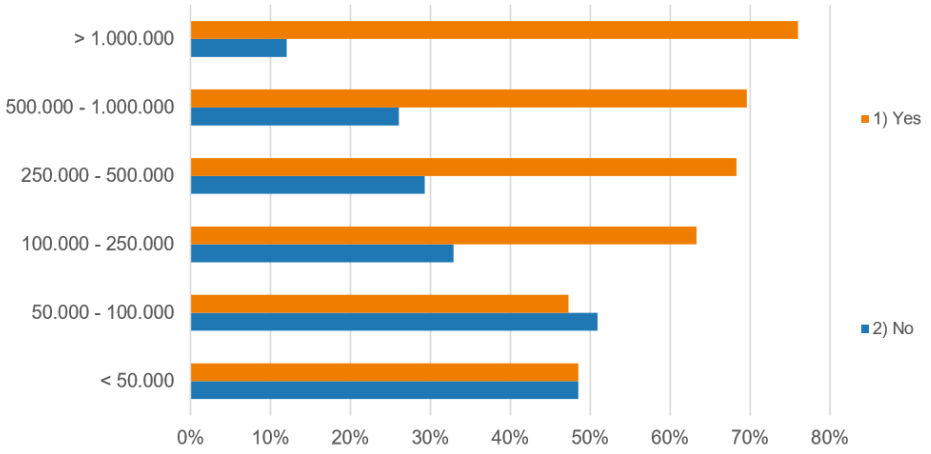

Question type	Data sample	Cluster	Value
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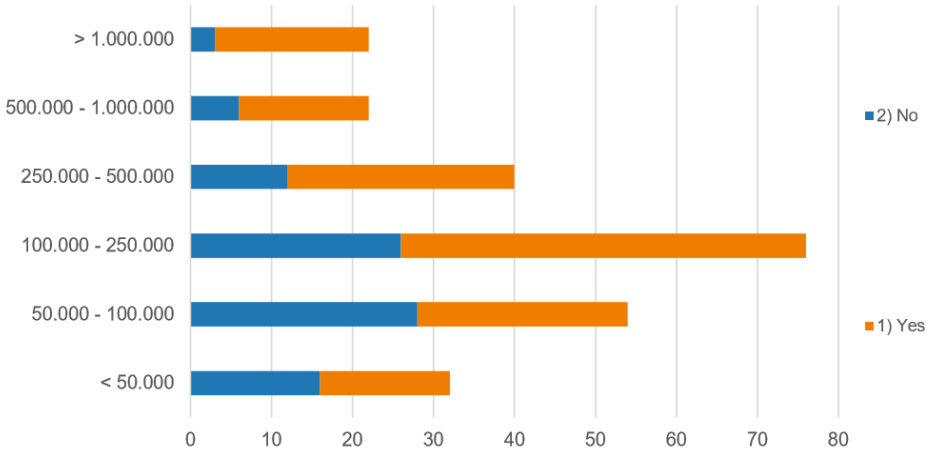

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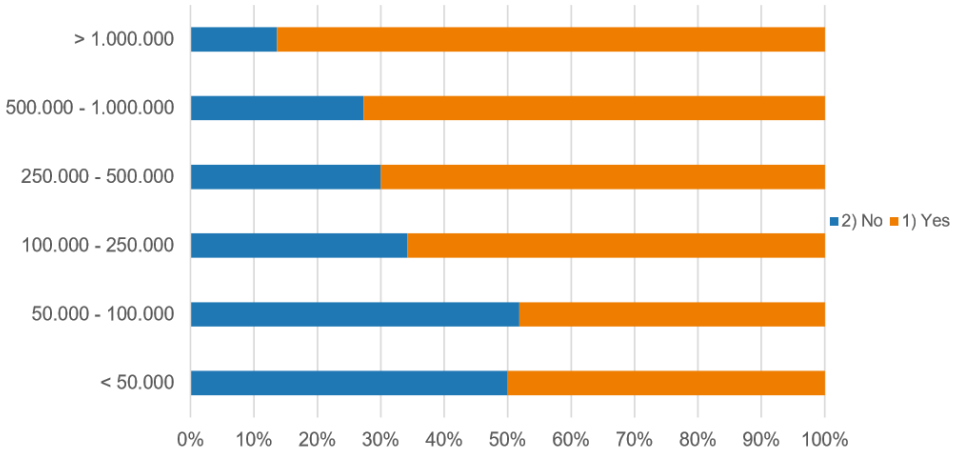

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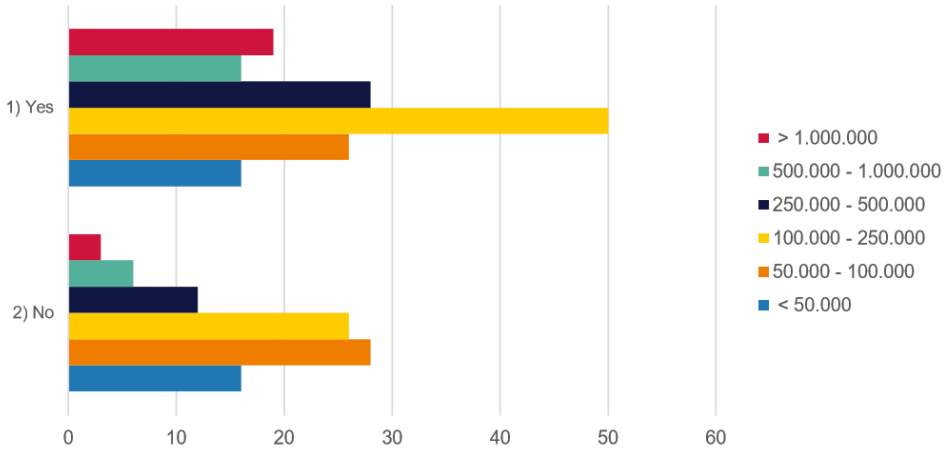

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Single choice - Binary	All Respondents	Population	Count

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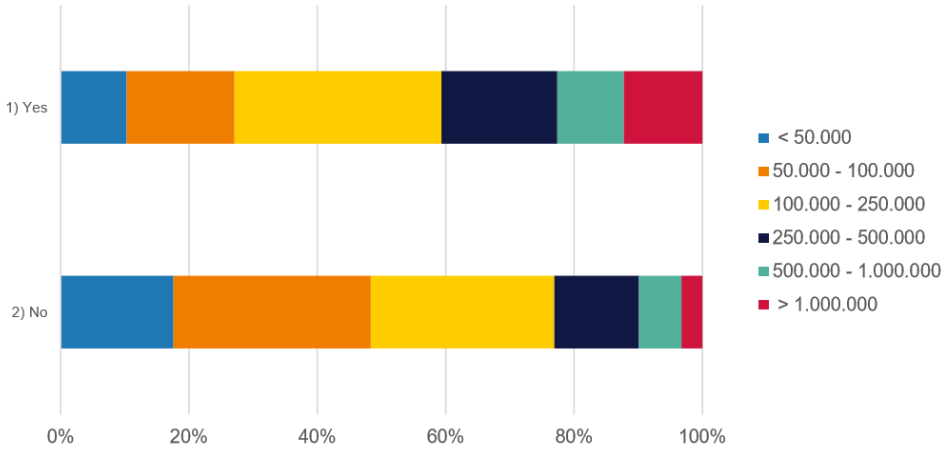

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Percentage

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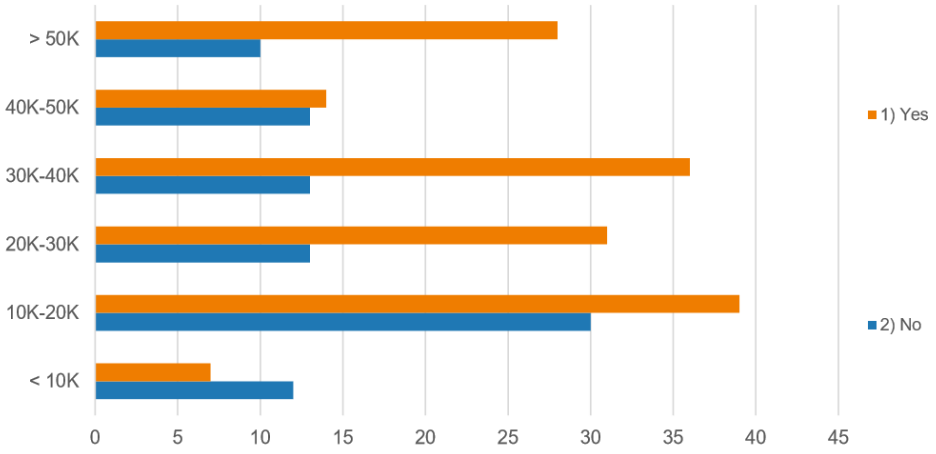

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Count

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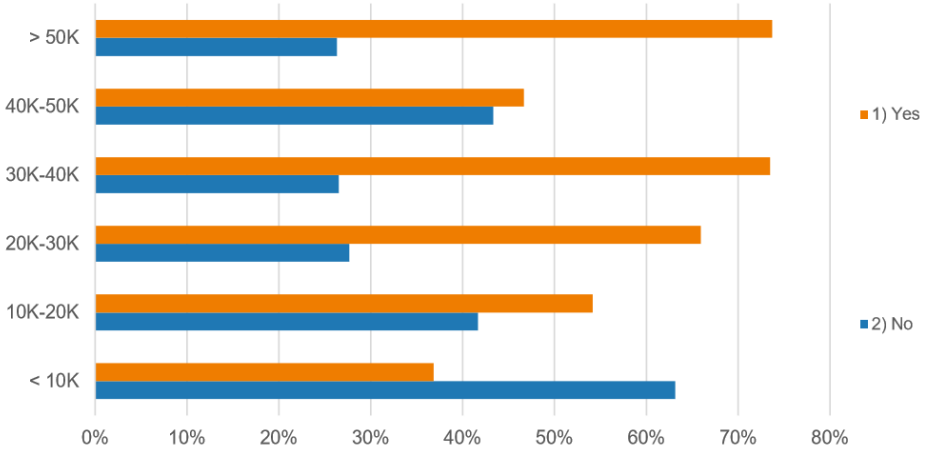

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Percentage

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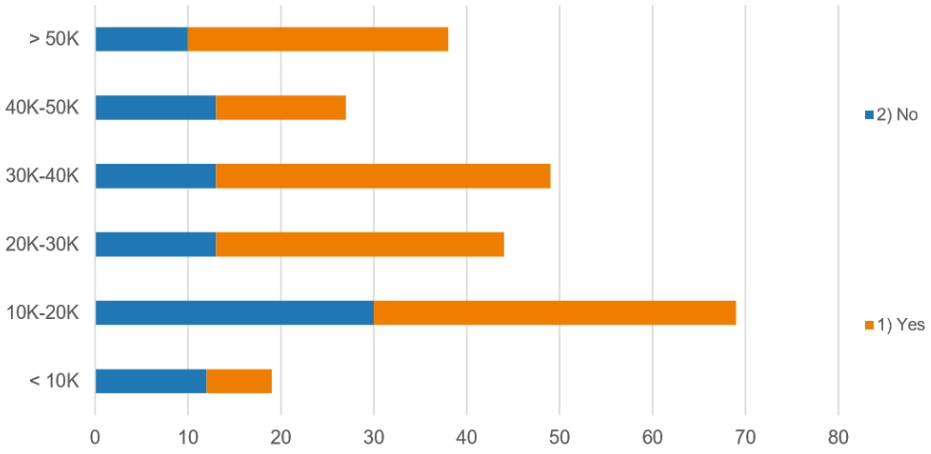

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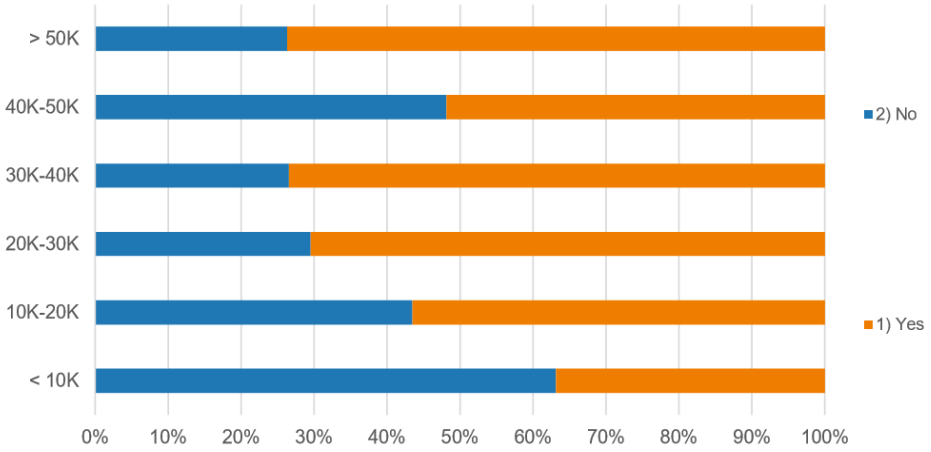
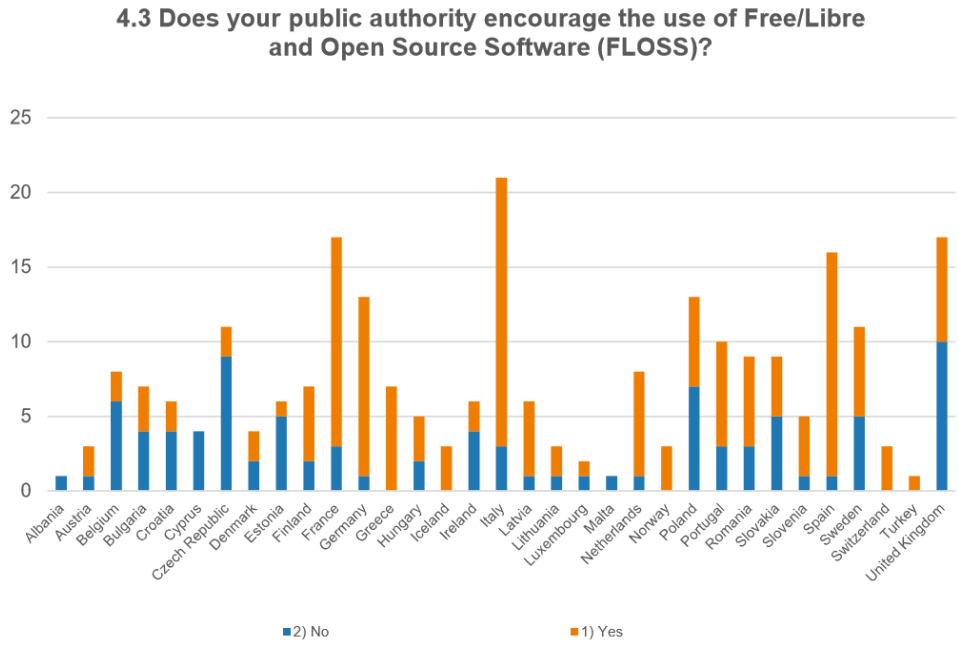


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Percentage



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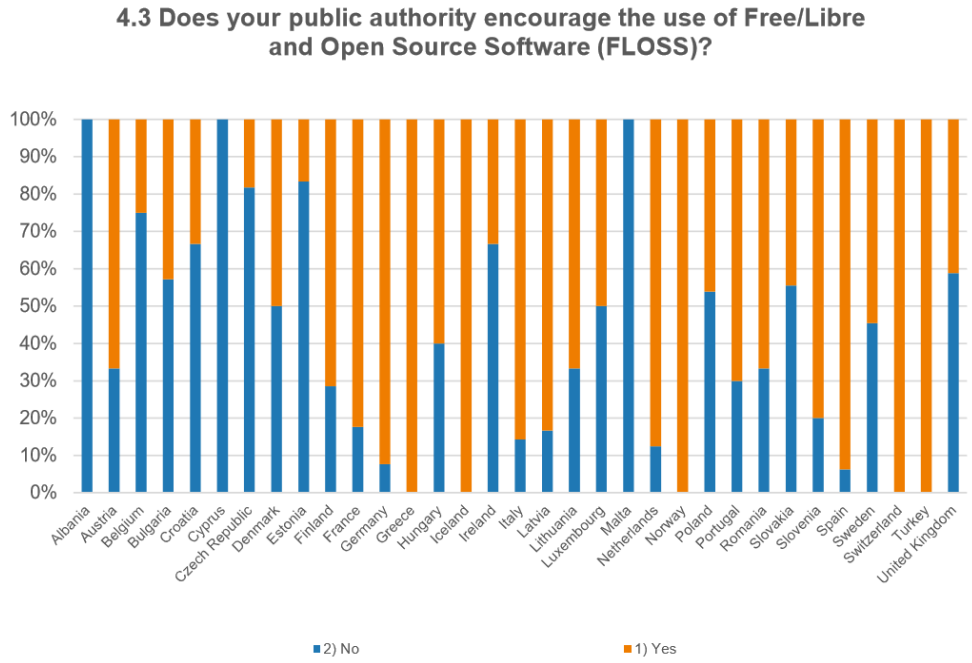


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Percentage

4.3 Does your public authority encourage the use of Free/Libre and Open Source Software (FLOSS)?

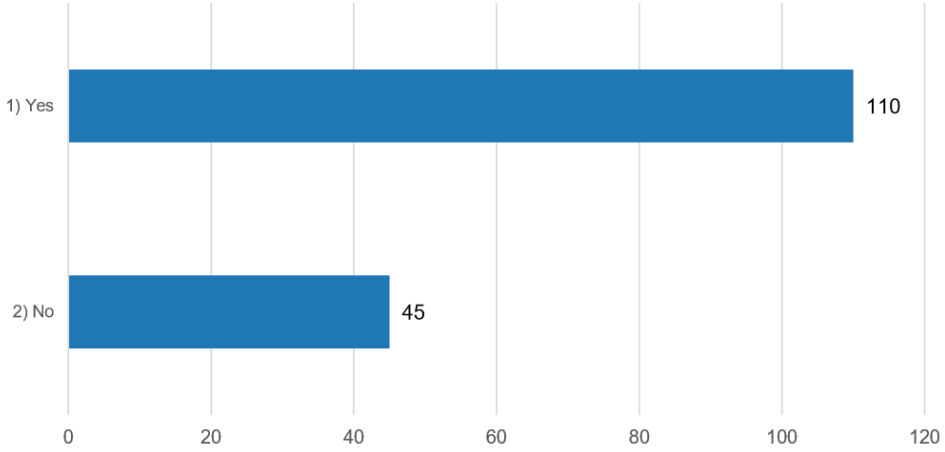
REFERENCE SAMPLE

Question type:	***Single choice - Binary***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	110	71%
2) No	45	29%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.3 Does your public authority encourage the use of Free/Libre and Open Source Software (FLOSS)?



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	-	Count

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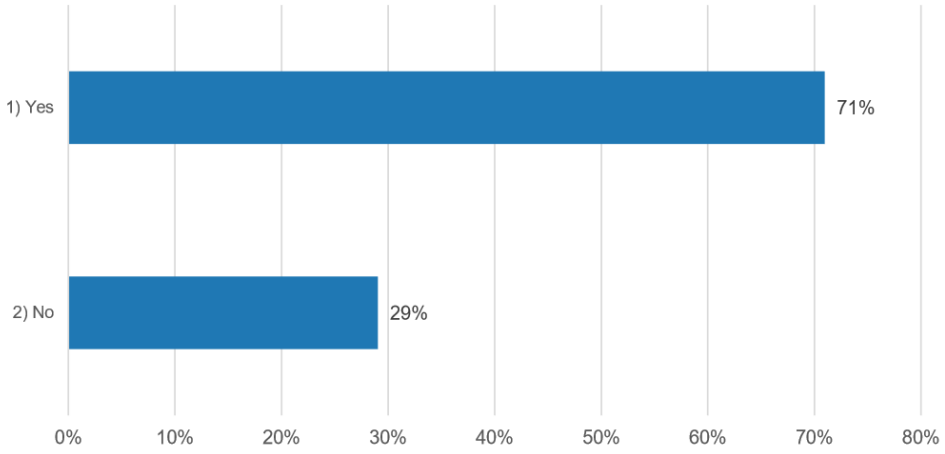

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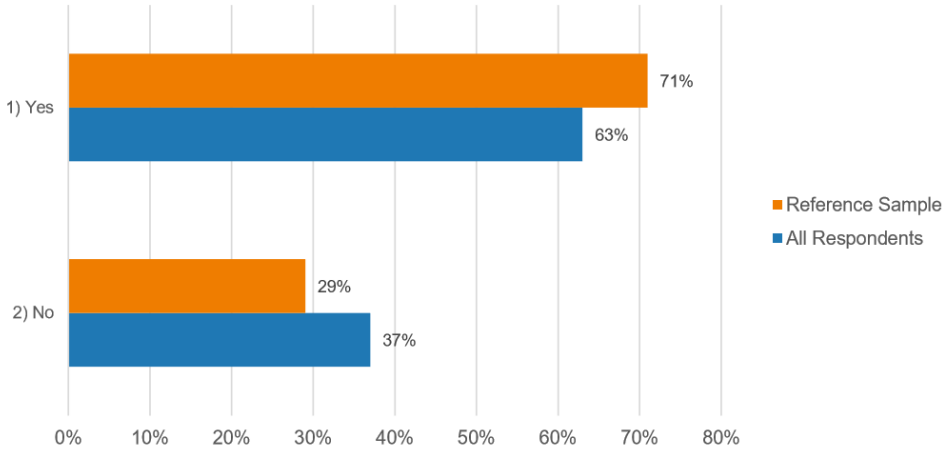

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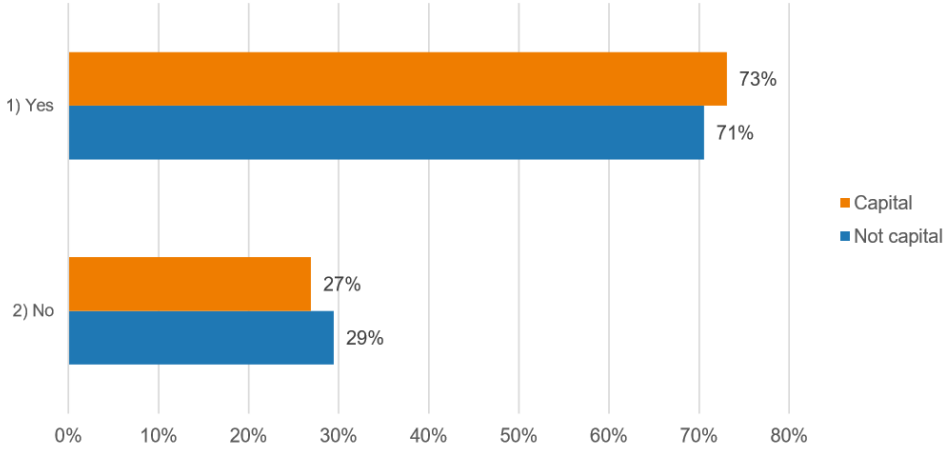
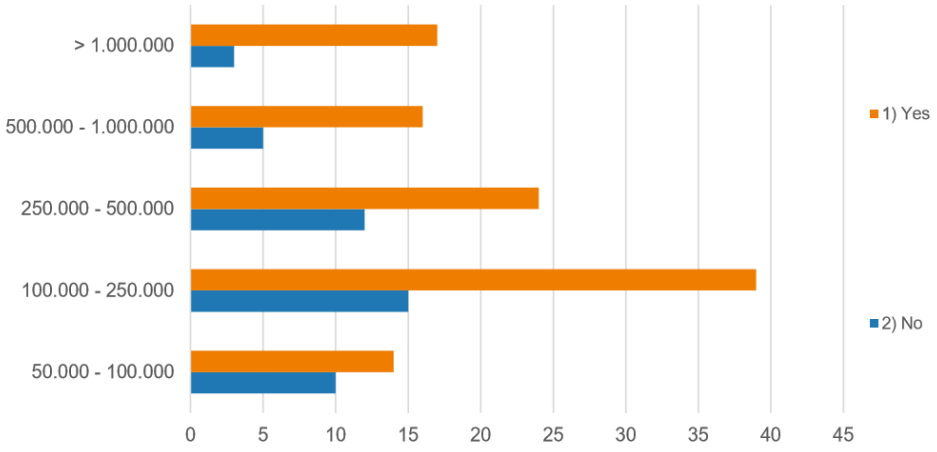
Single choice - Binary	Reference Sample	Reference Sample	Percentage

4.3 Does your public authority encourage the use of Free/Libre and Open Source Software (FLOSS)?



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Capital cities	Percentage

4.3 Does your public authority encourage the use of Free/Libre and Open Source Software (FLOSS)?



Question type	Data sample	Cluster	Value
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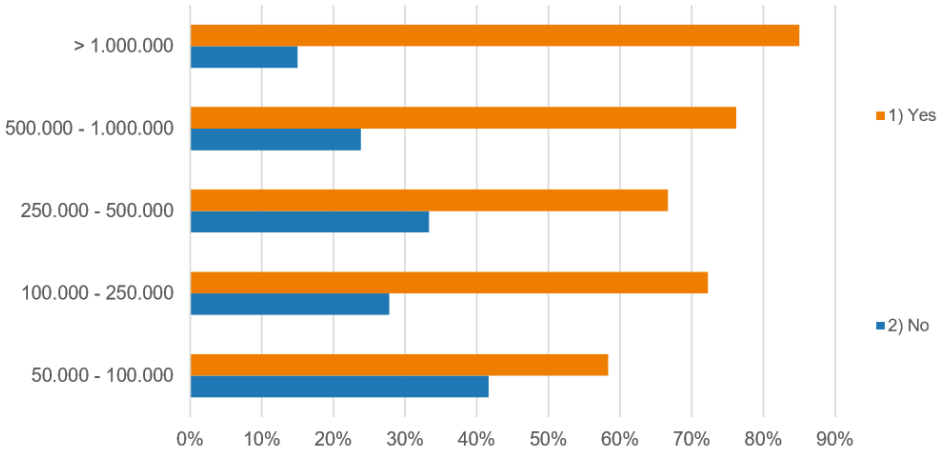

Question type	Data sample	Cluster	Value
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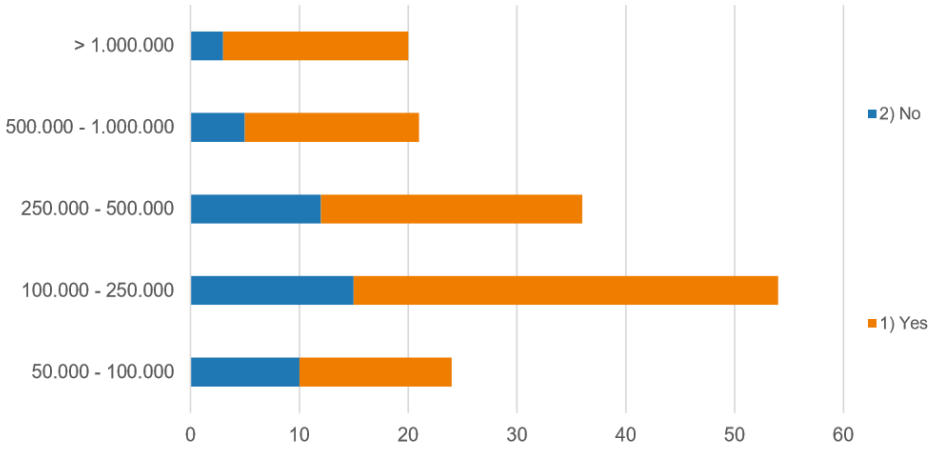

Question type	Data sample	Cluster	Value
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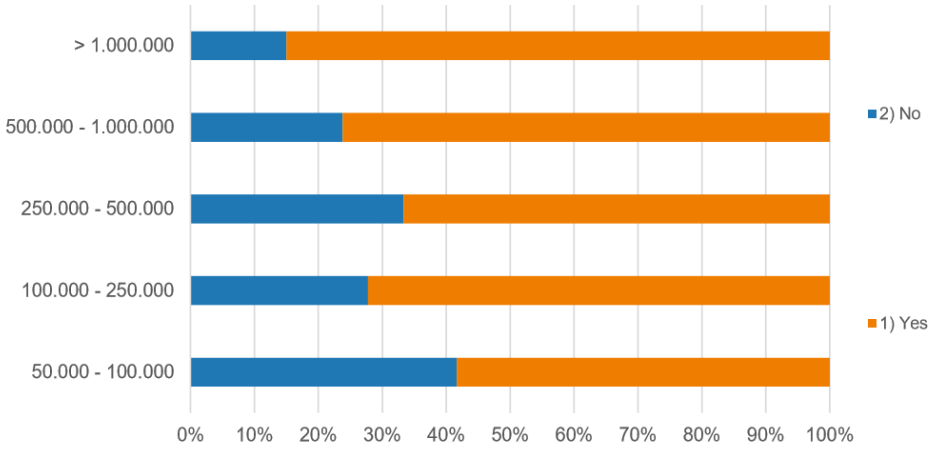

Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Population	Percentage

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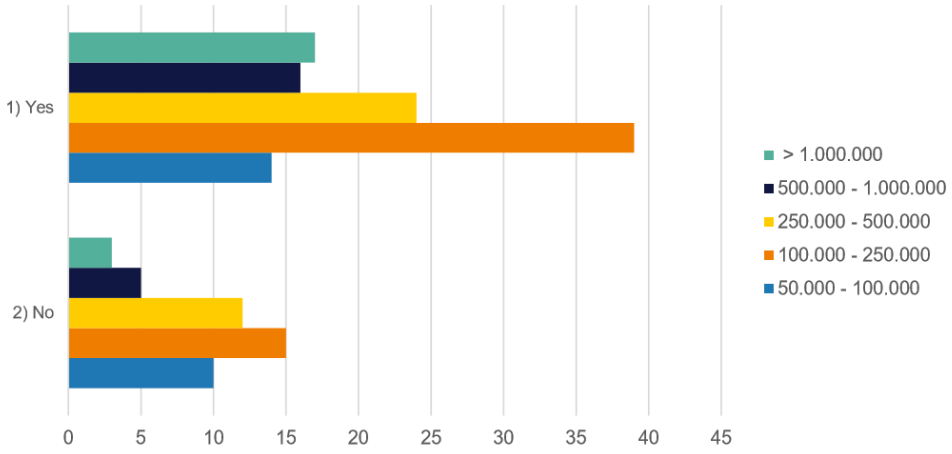

Question type	Data sample	Cluster	Value
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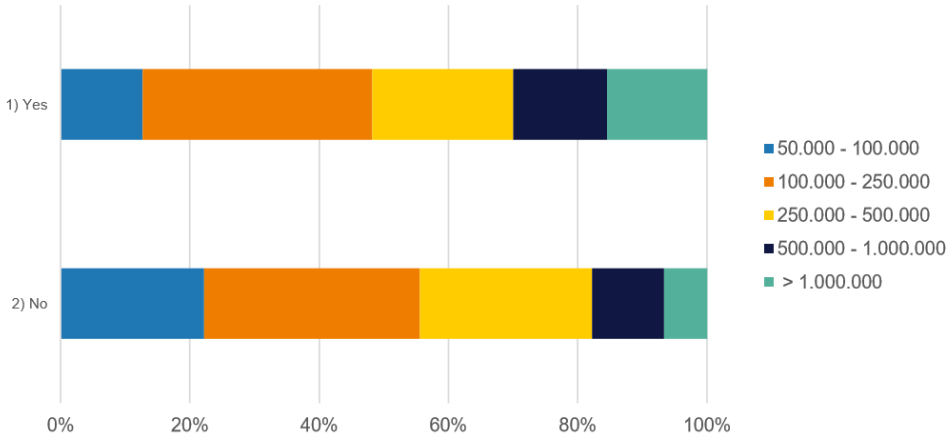

Question type	Data sample	Cluster	Value
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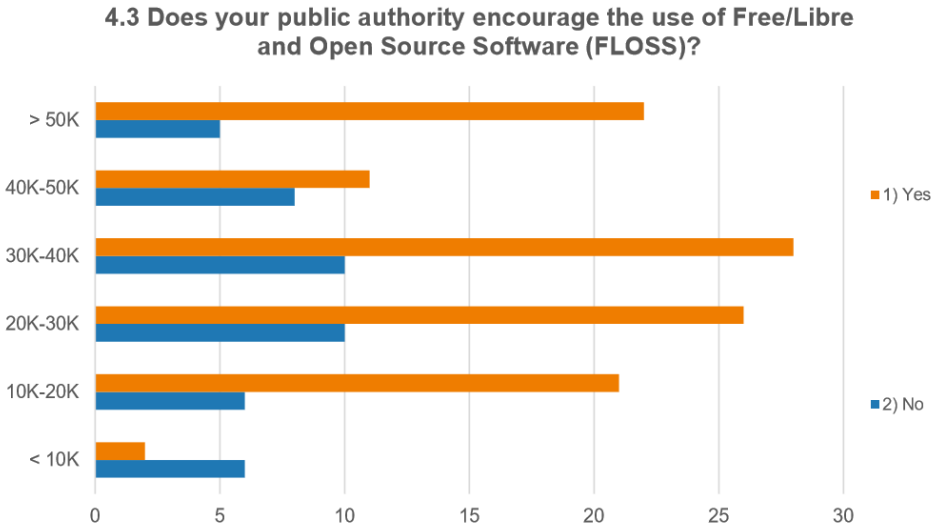

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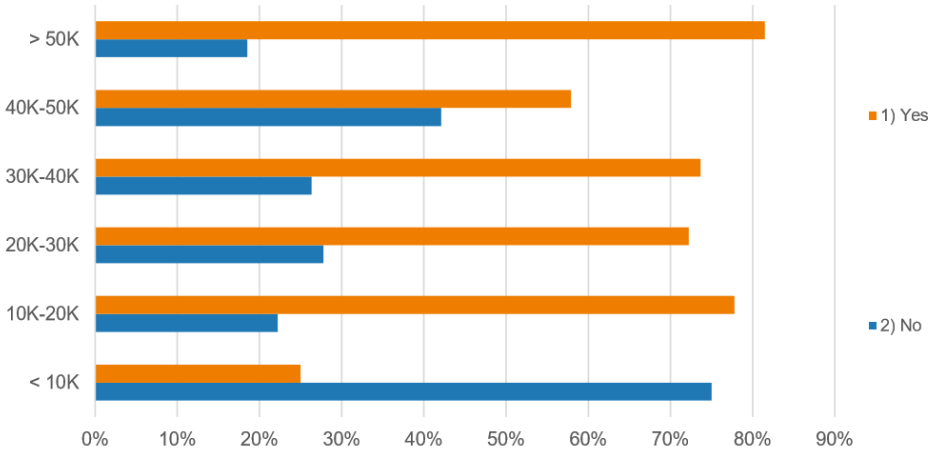
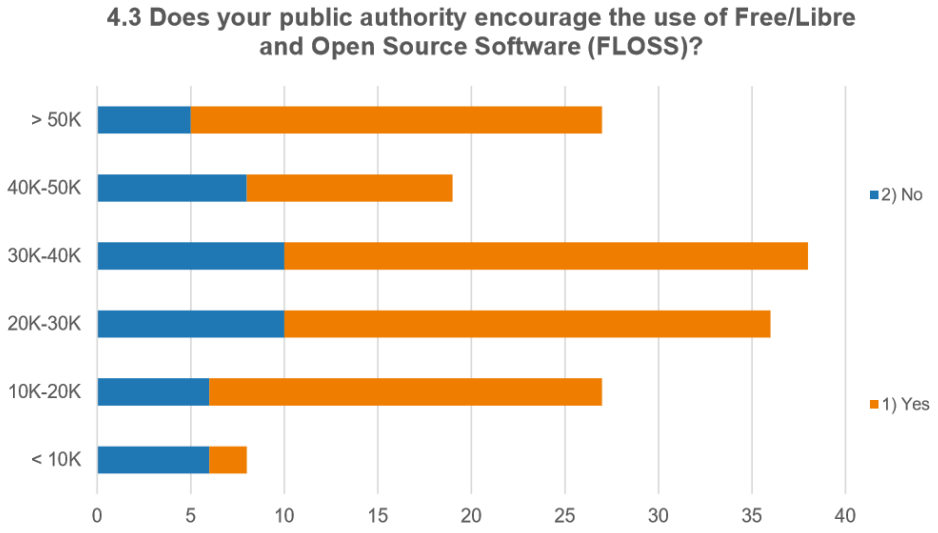
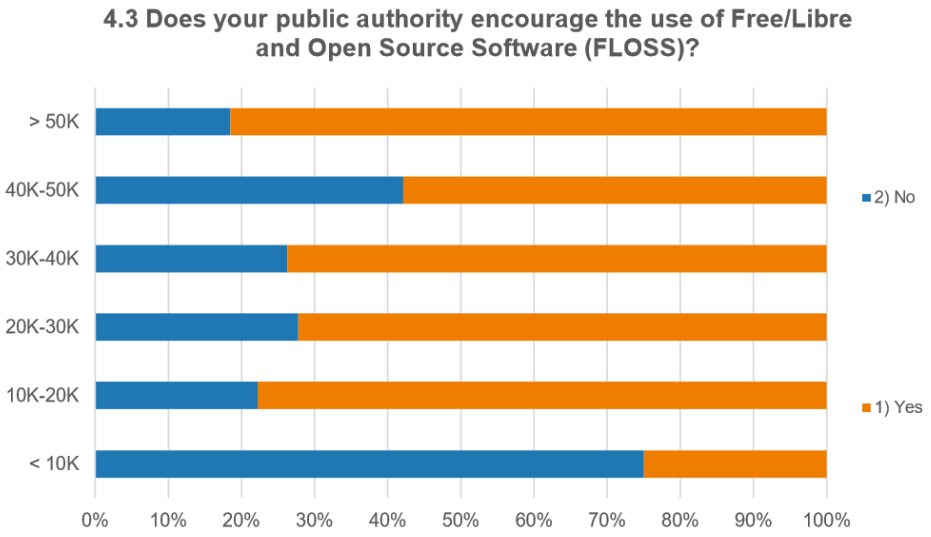


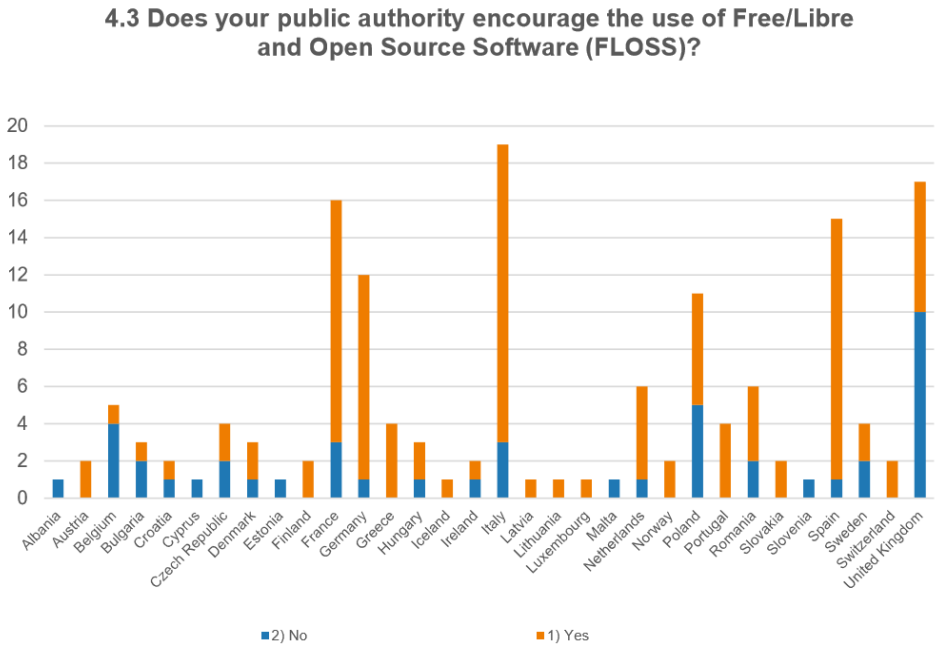
Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Percentage



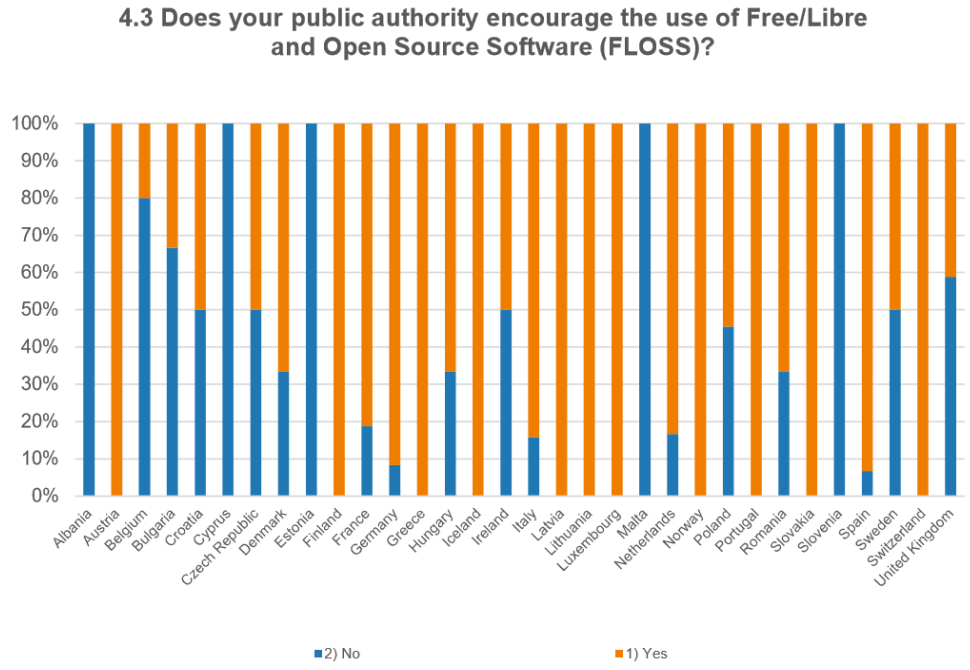
Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Count



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Percentage

3.19 Q_4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?

4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?

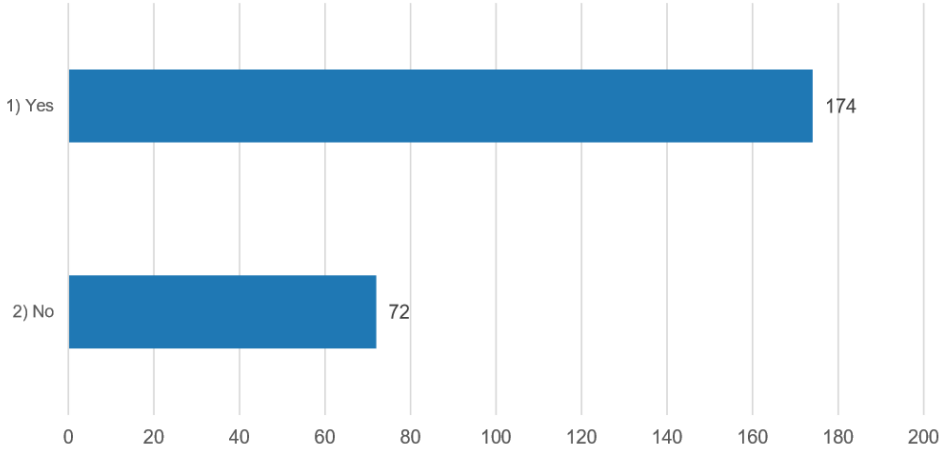
ALL RESPONDENTS

Question type: ***Single choice - Binary***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	174	71%
2) No	72	29%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Count

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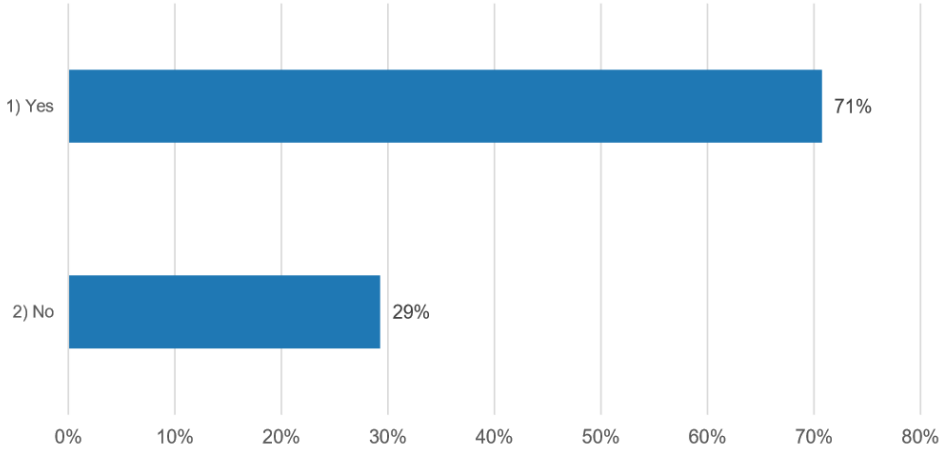

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Percentage

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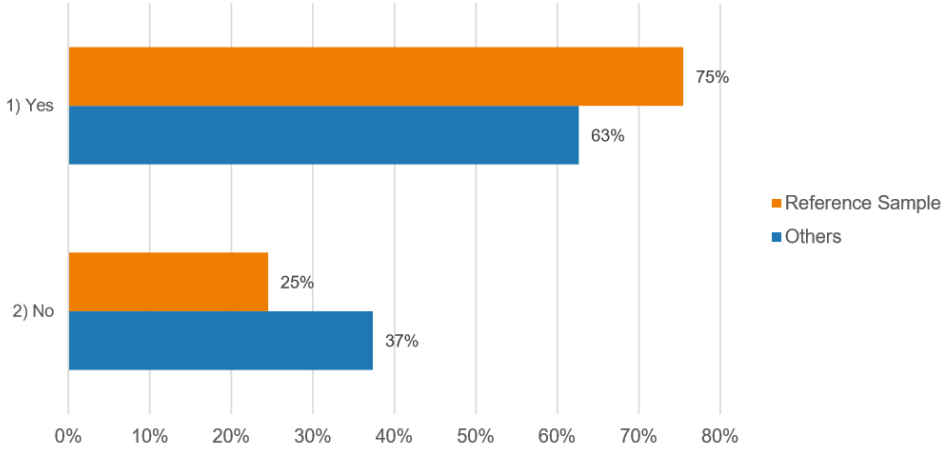
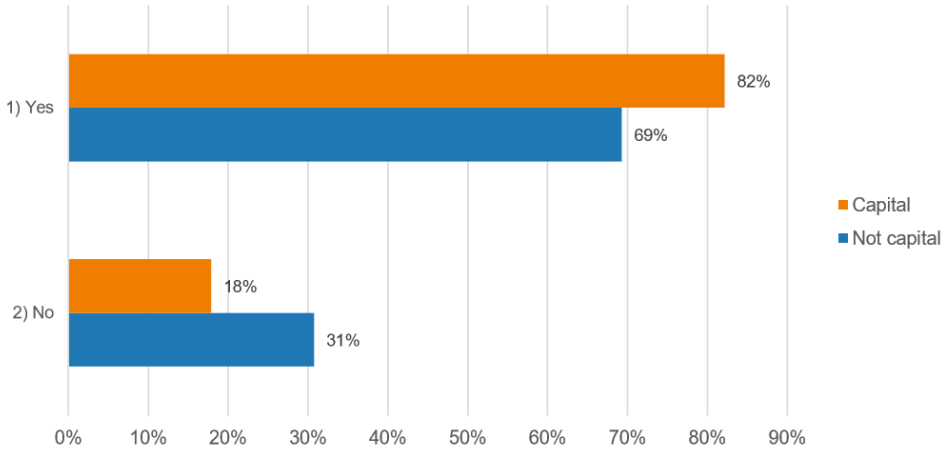


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Reference Sample	Percentage

4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Capital cities	Percentage

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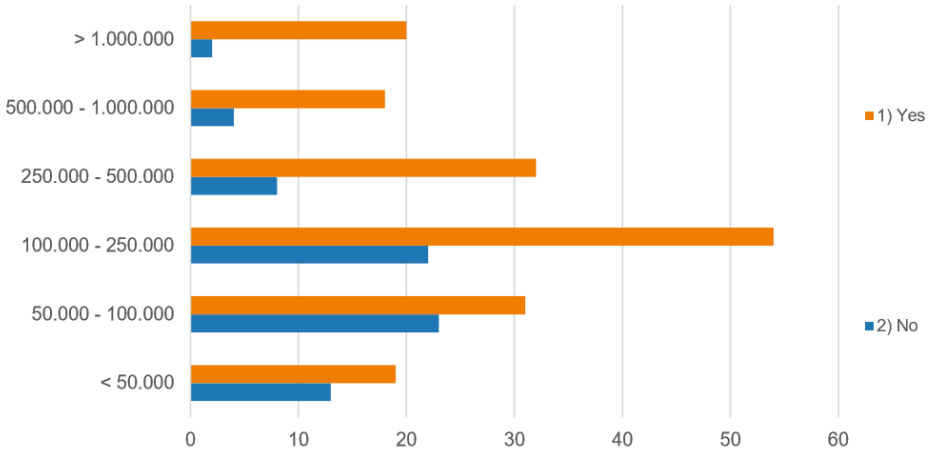

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Count

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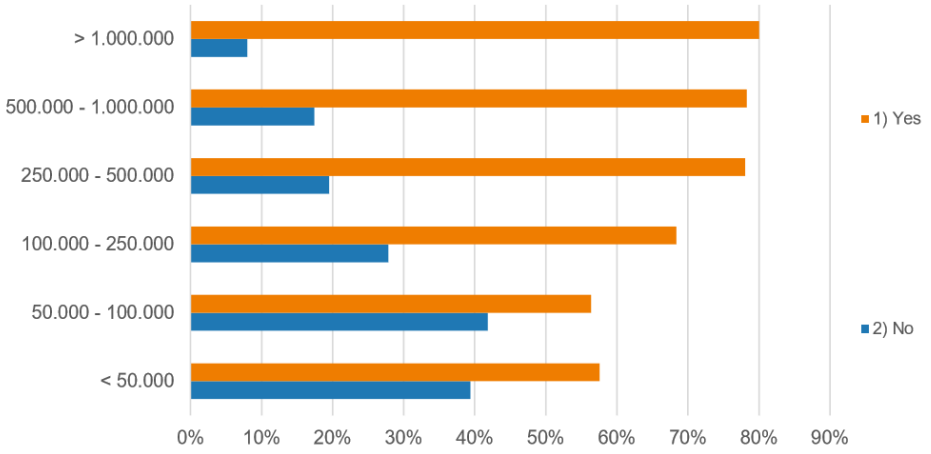

Question type	Data sample	Cluster	Value
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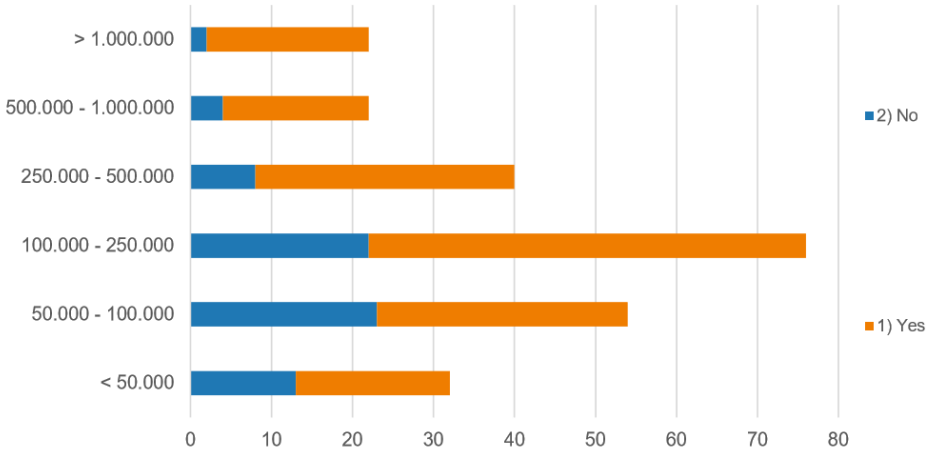

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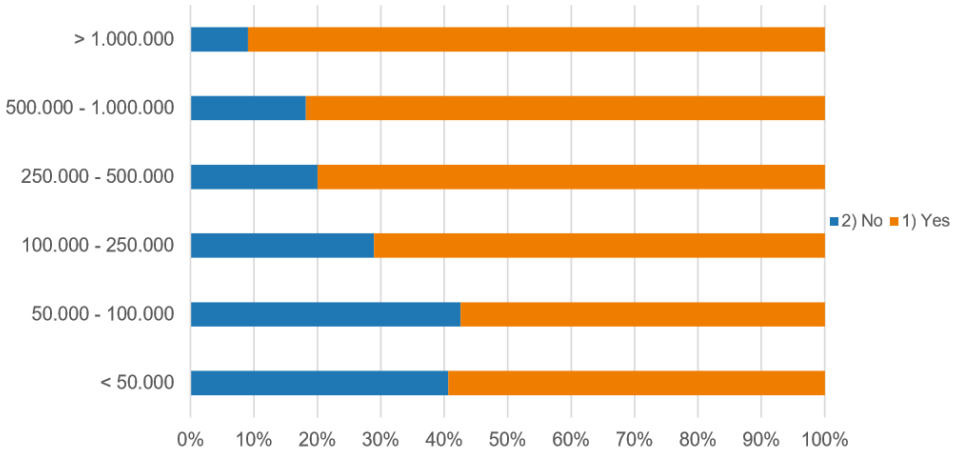

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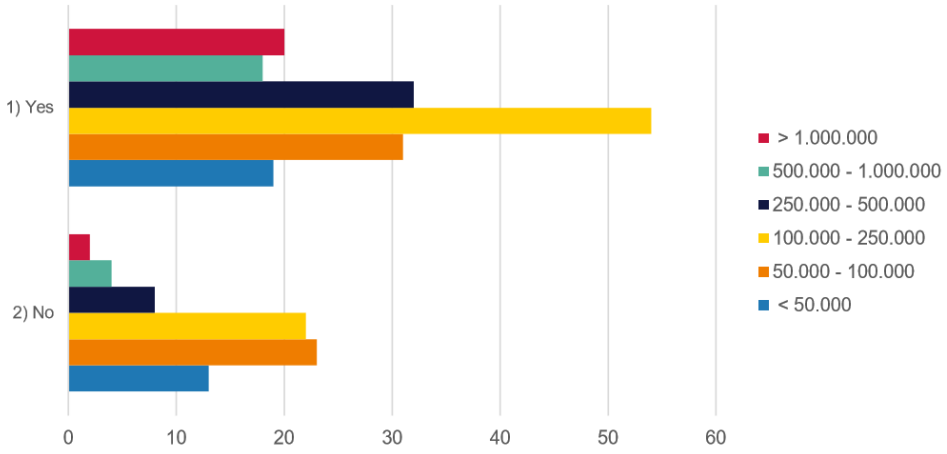

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Count

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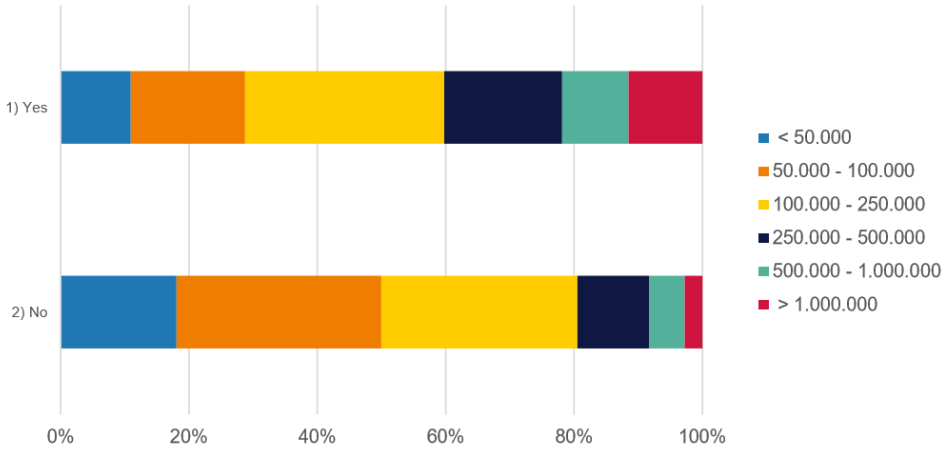

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Percentage

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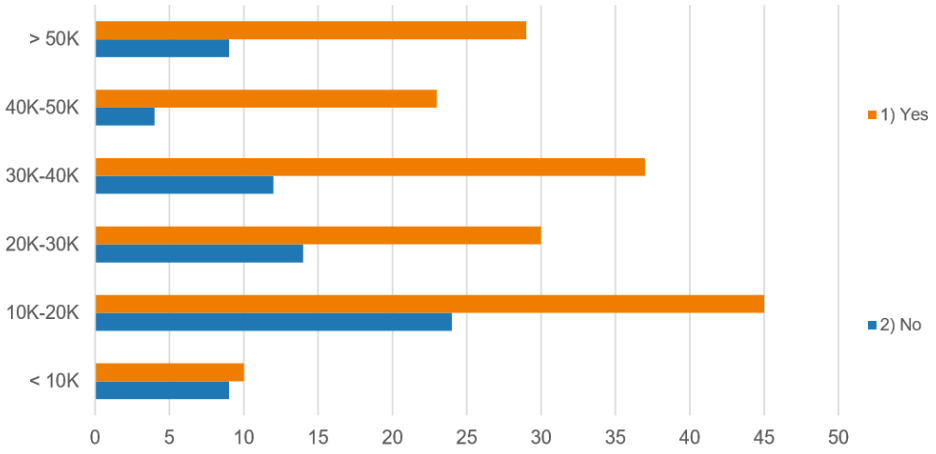

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Count

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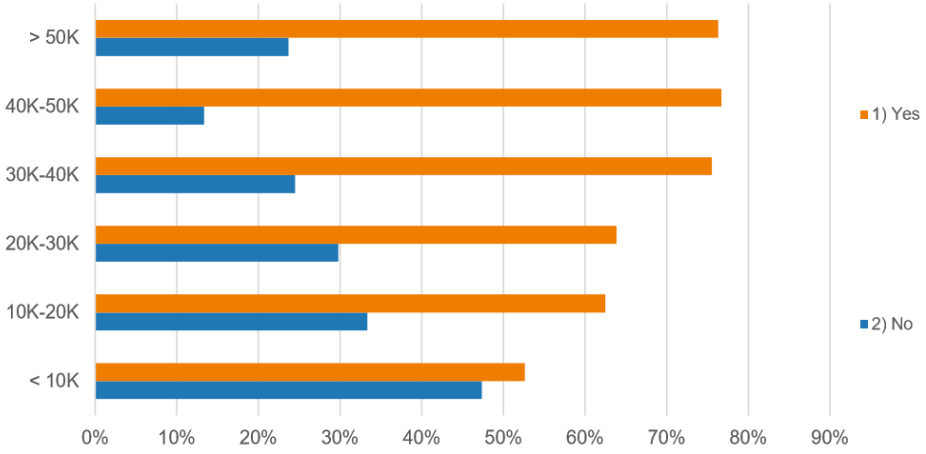

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Percentage

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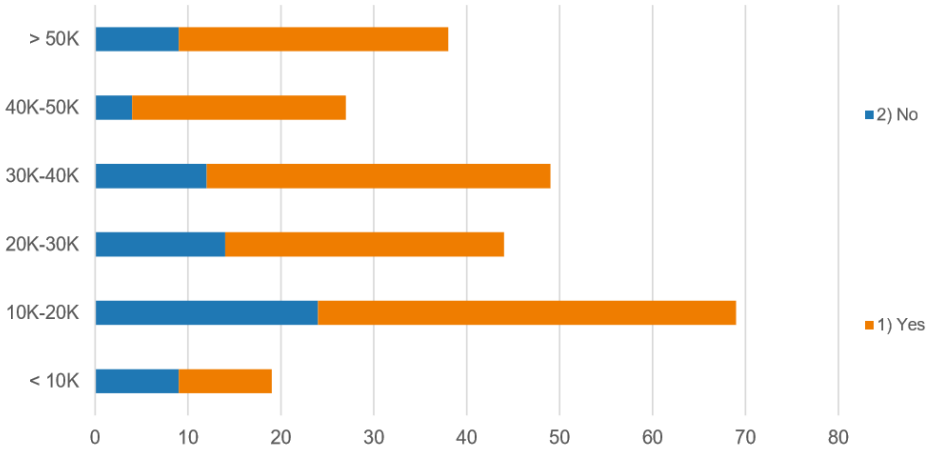

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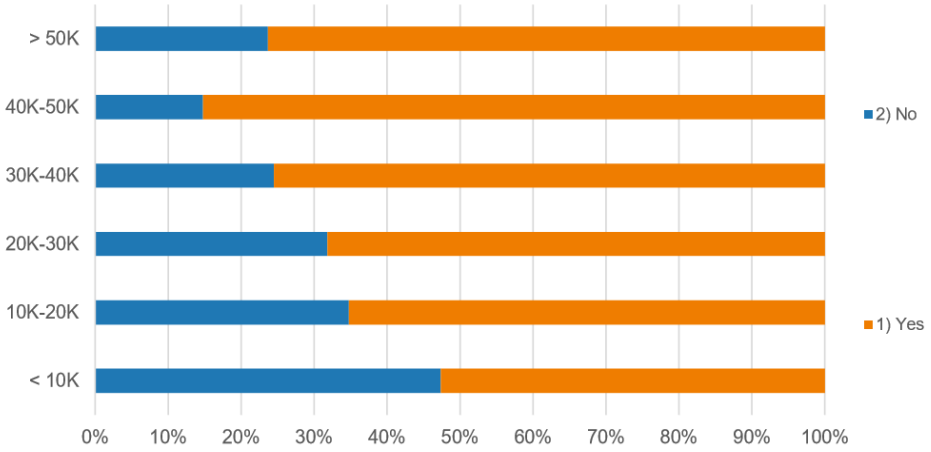

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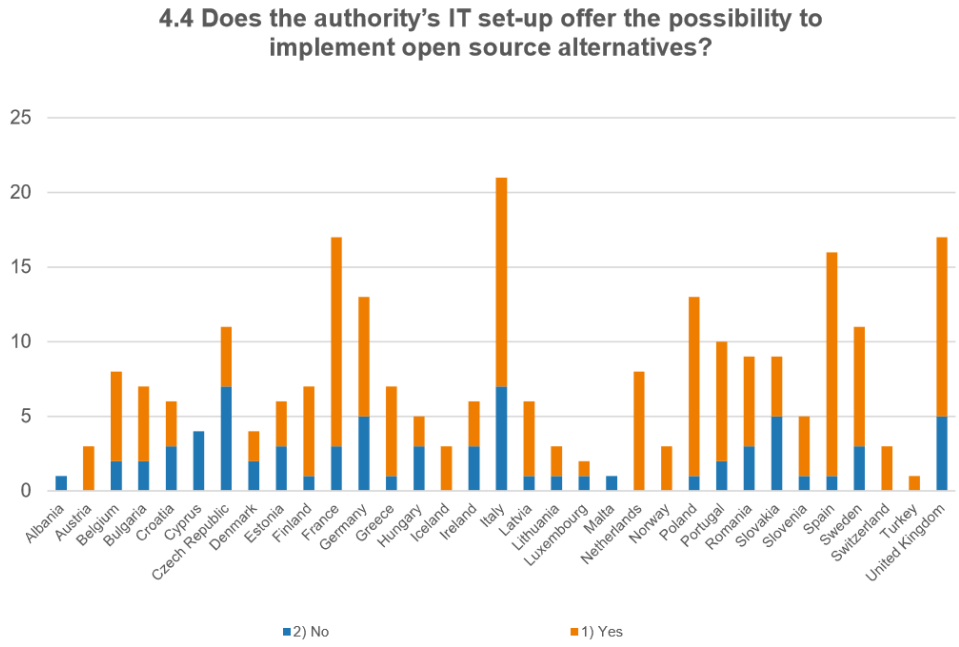

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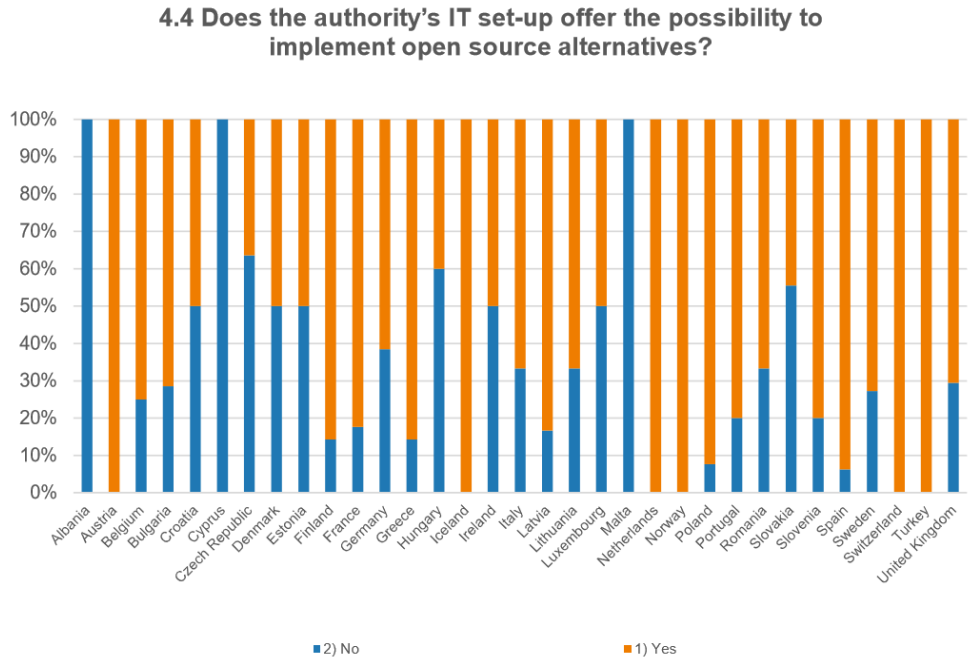


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Percentage

4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?

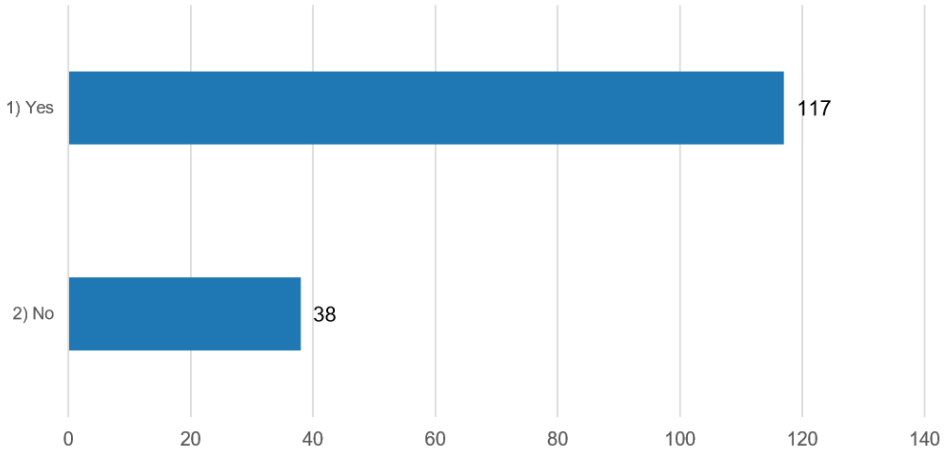
REFERENCE SAMPLE

Question type:	***Single choice - Binary***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	117	75%
2) No	38	25%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	-	Count

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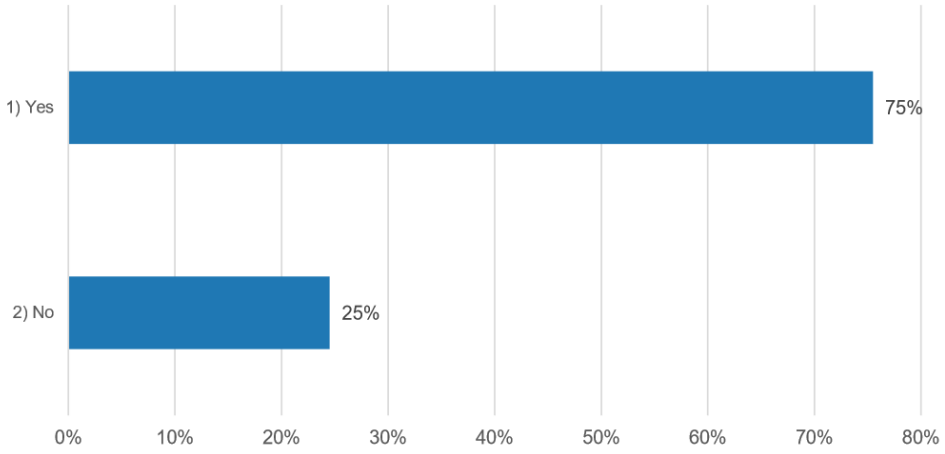

Question type	Data sample	Cluster	Value
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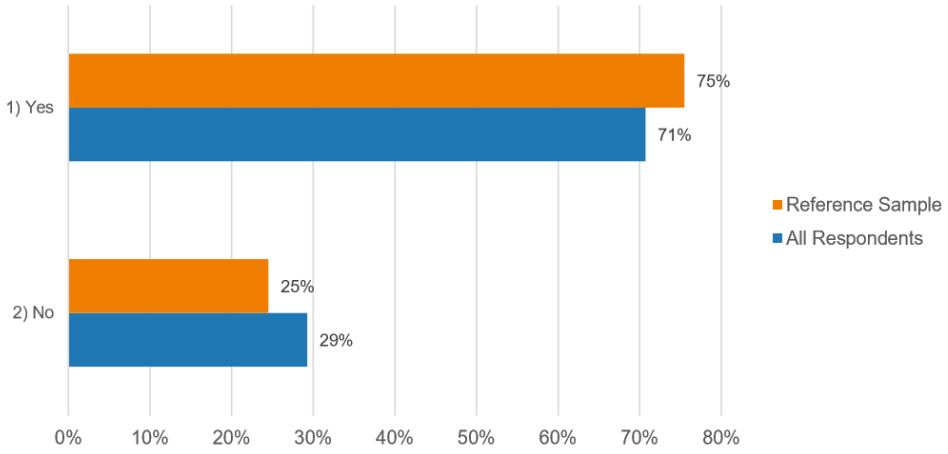

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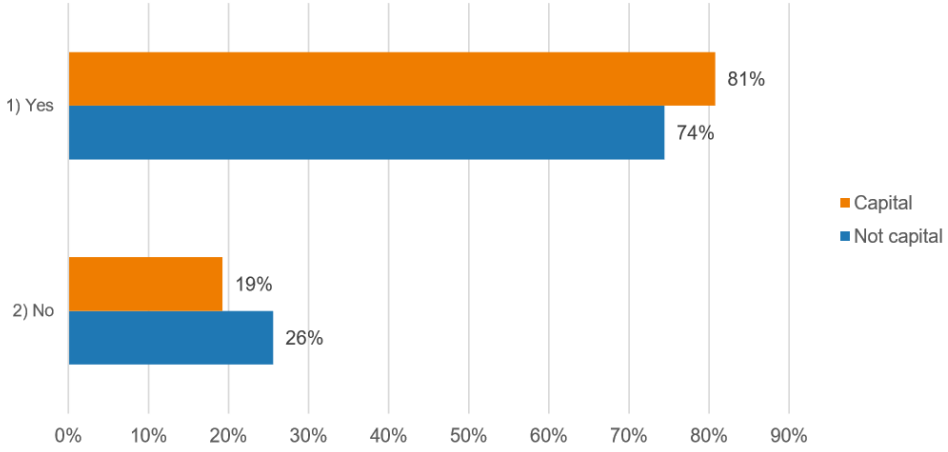

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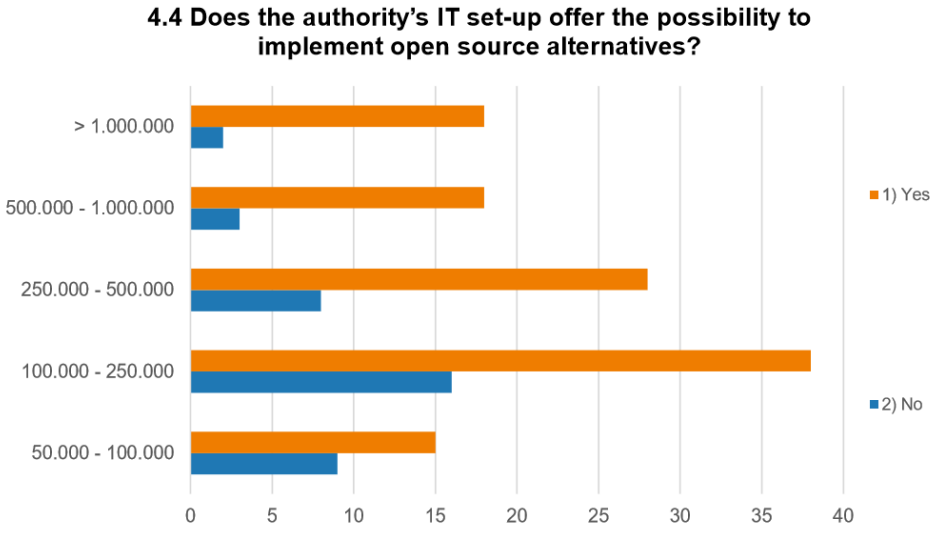

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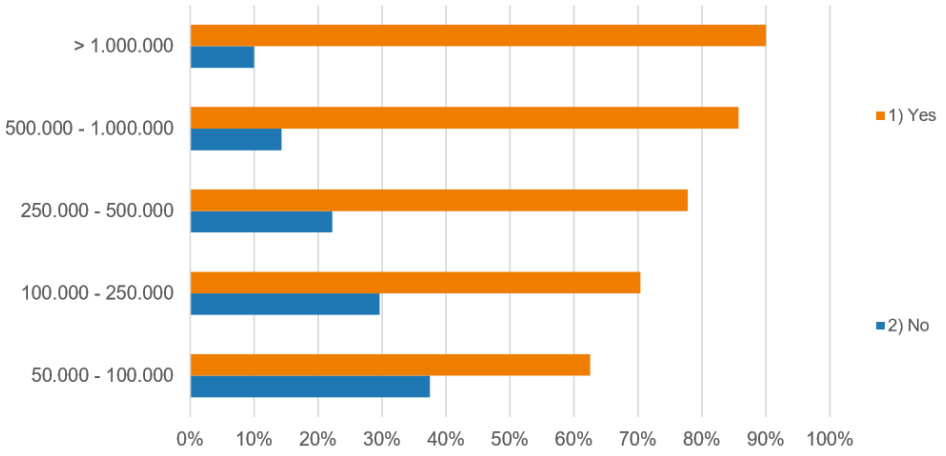

Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Population	Percentage

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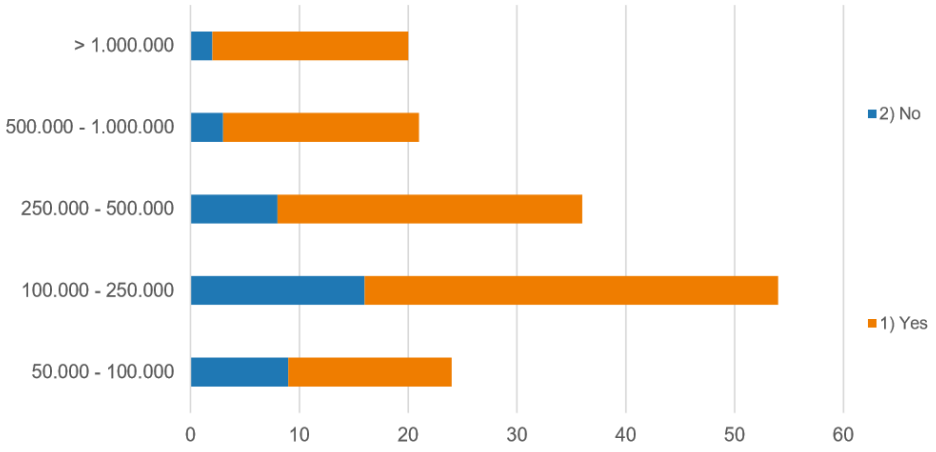

Question type	Data sample	Cluster	Value
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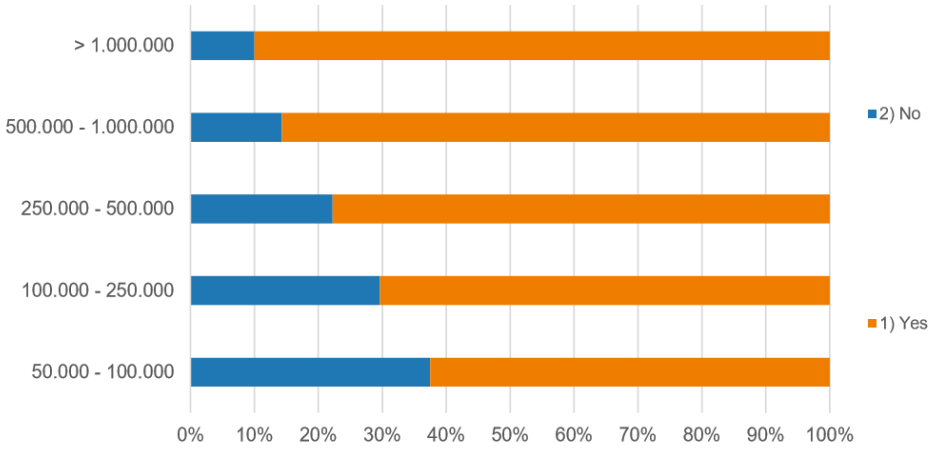

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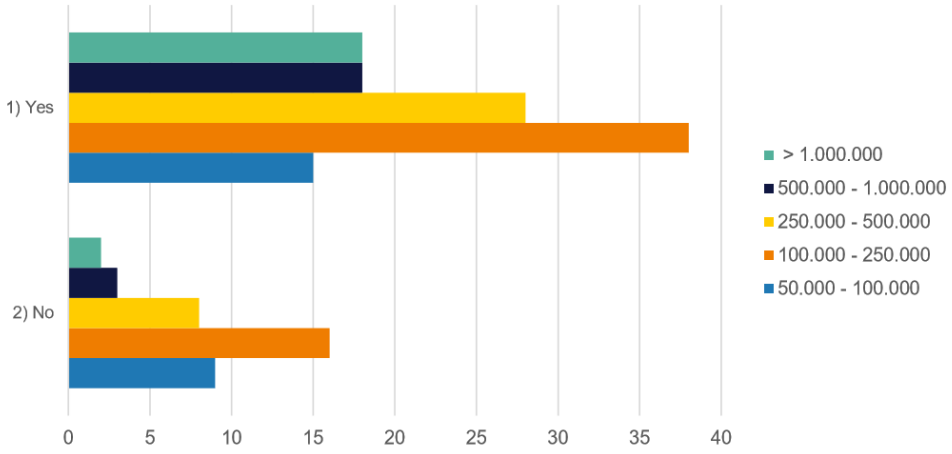

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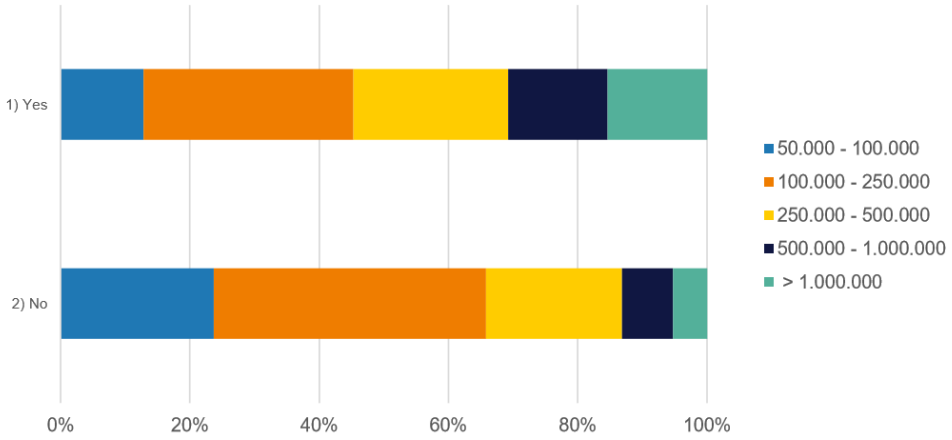

Question type	Data sample	Cluster	Value
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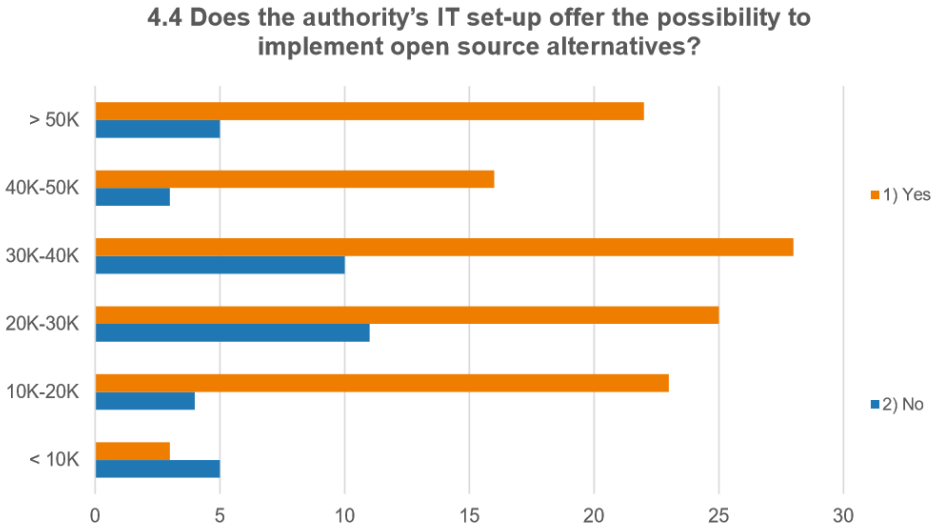

Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Count

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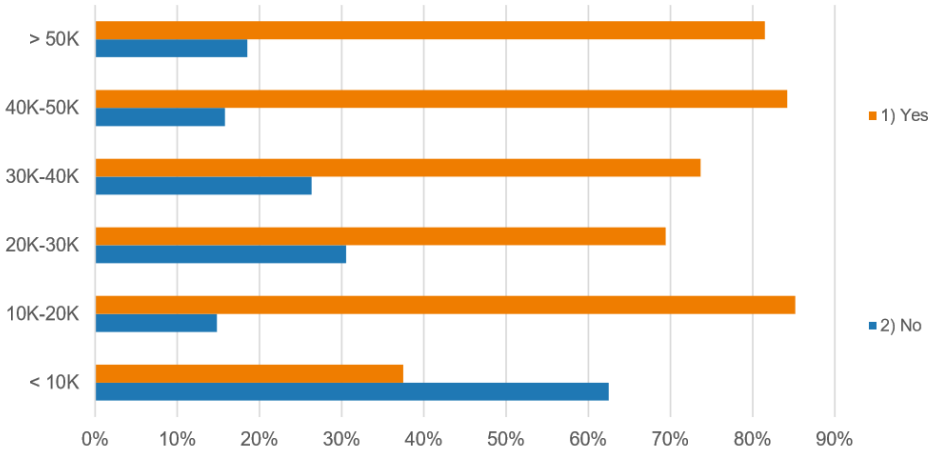
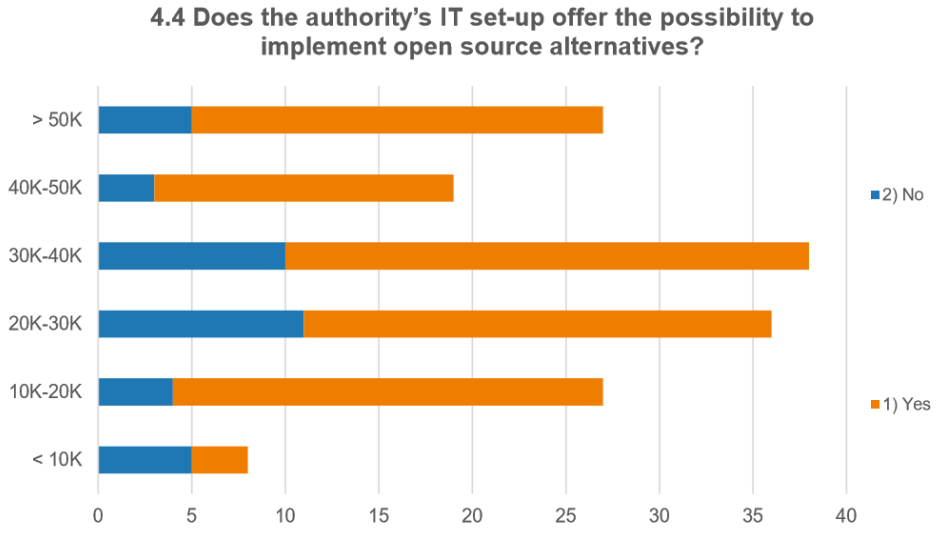


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Percentage



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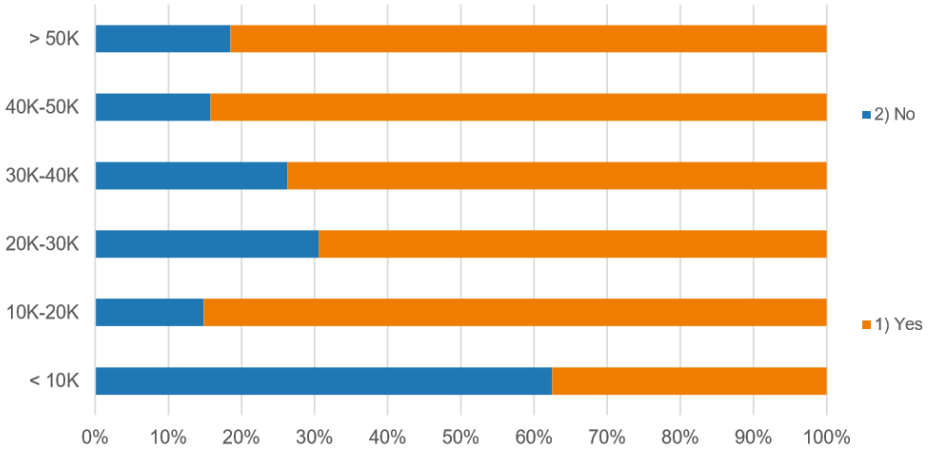
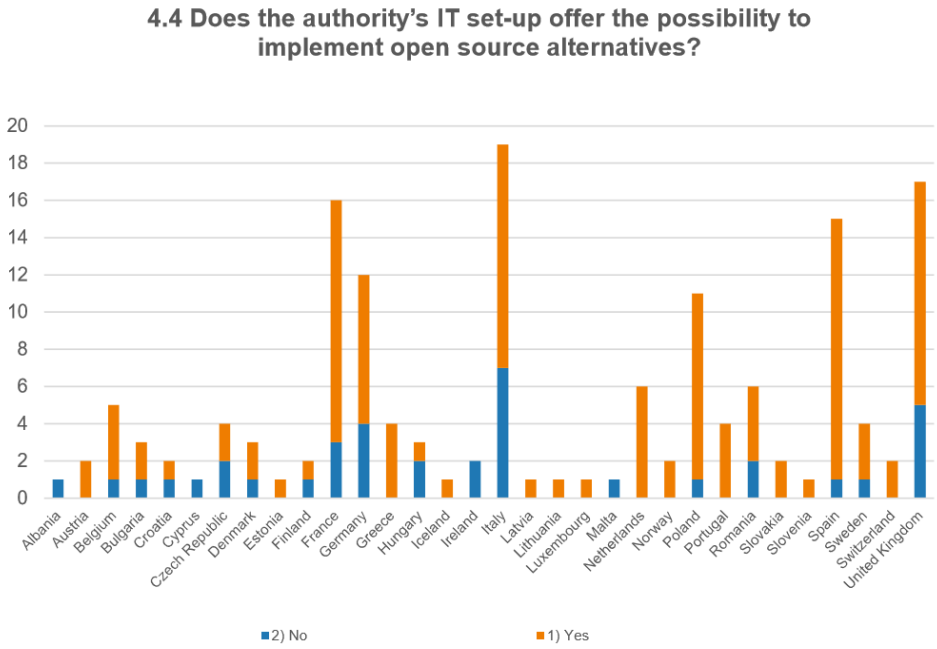
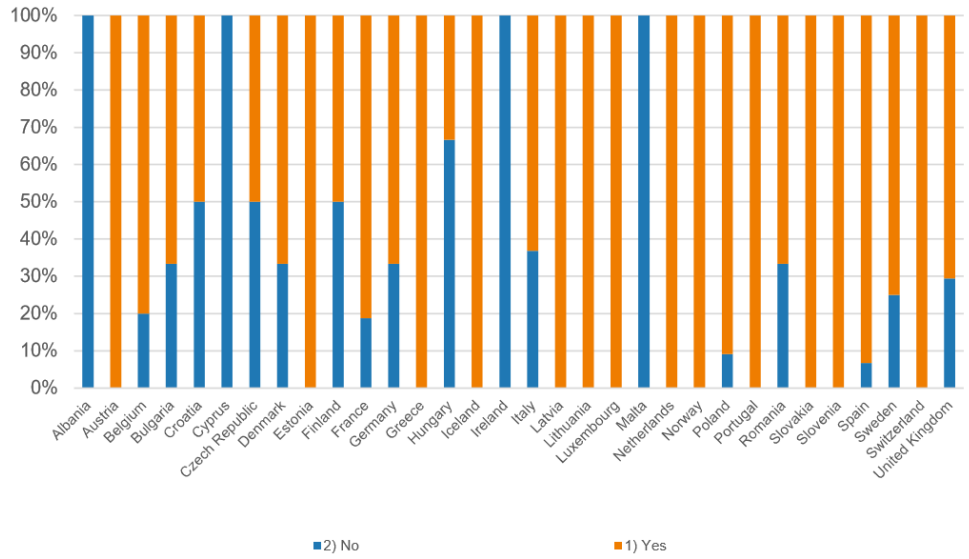


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Count

4.4 Does the authority's IT set-up offer the possibility to implement open source alternatives?



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Percentage

3.20 Q_4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code?

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code

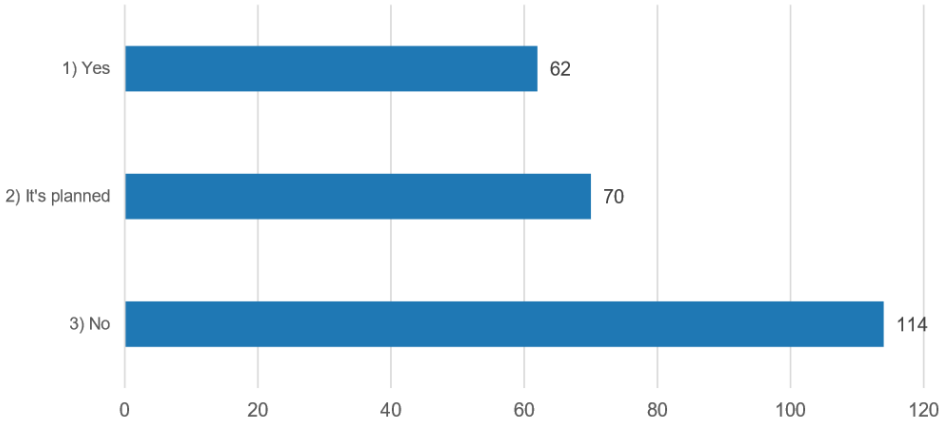
ALL RESPONDENTS

Question type: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	62	25%
2) It's planned	70	28%
3) No	114	46%

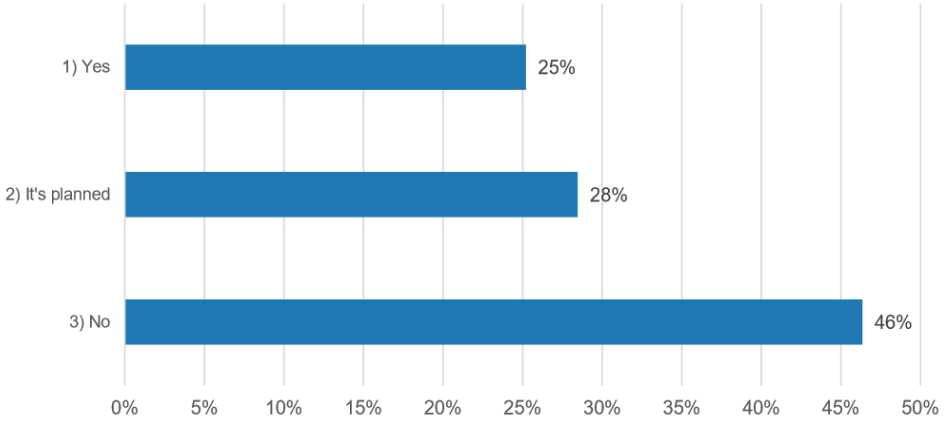
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



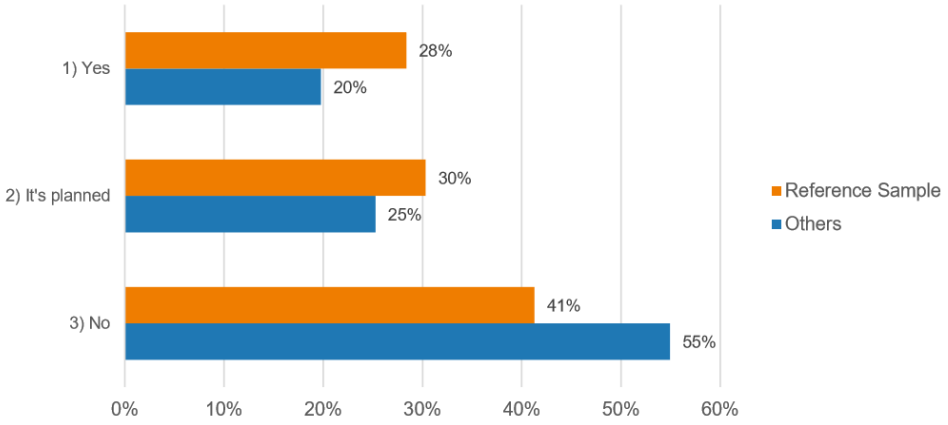
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



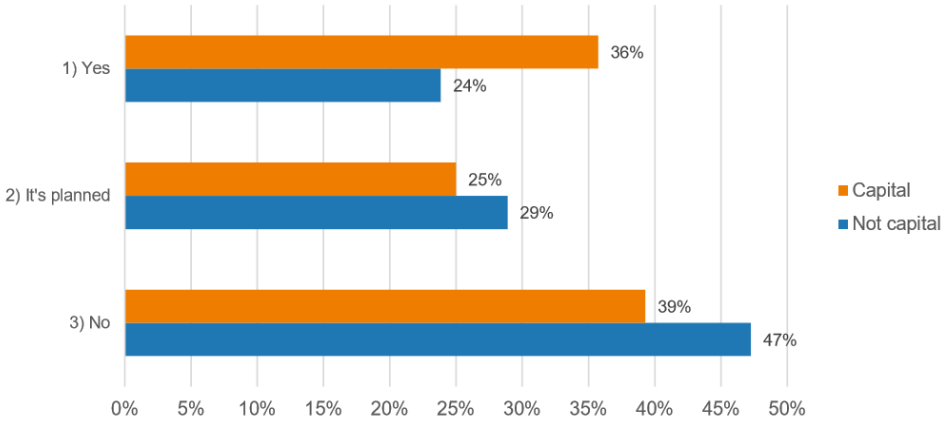
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



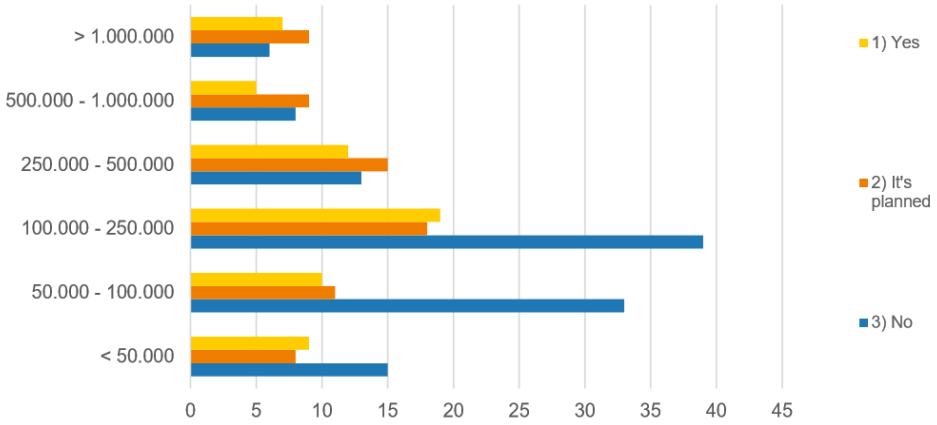
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



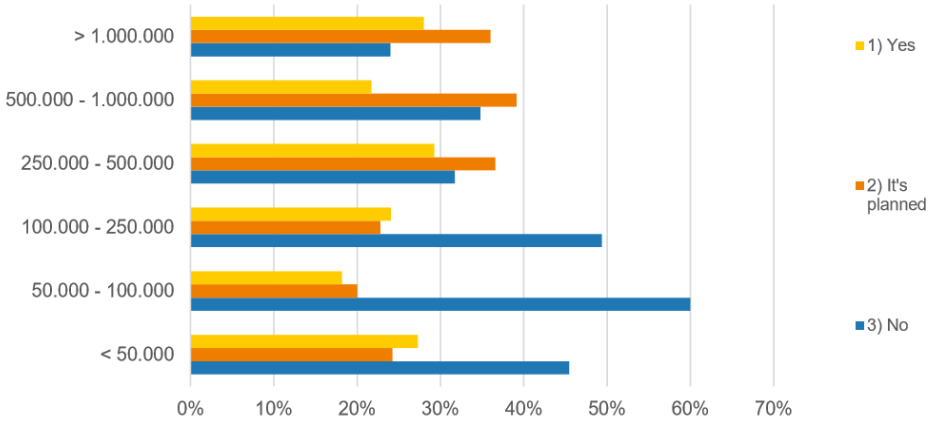
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



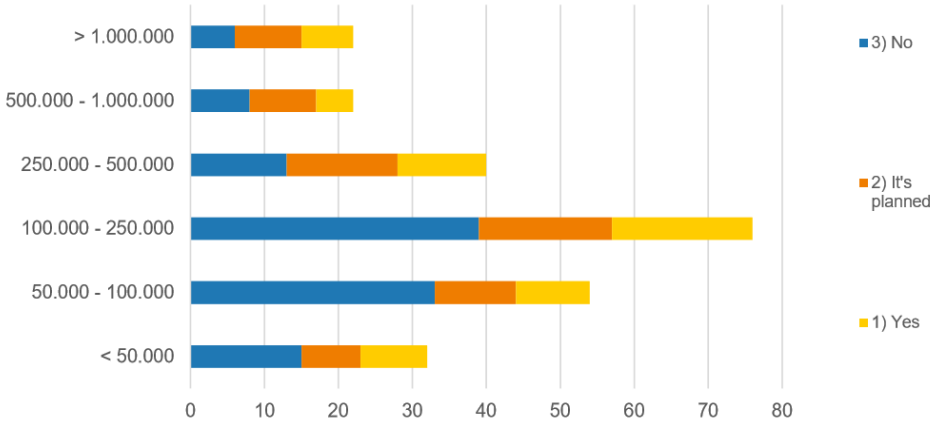
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



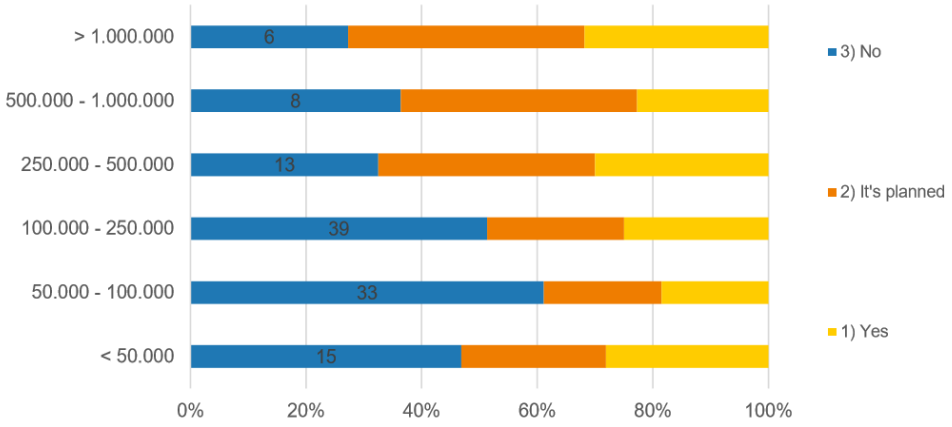
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



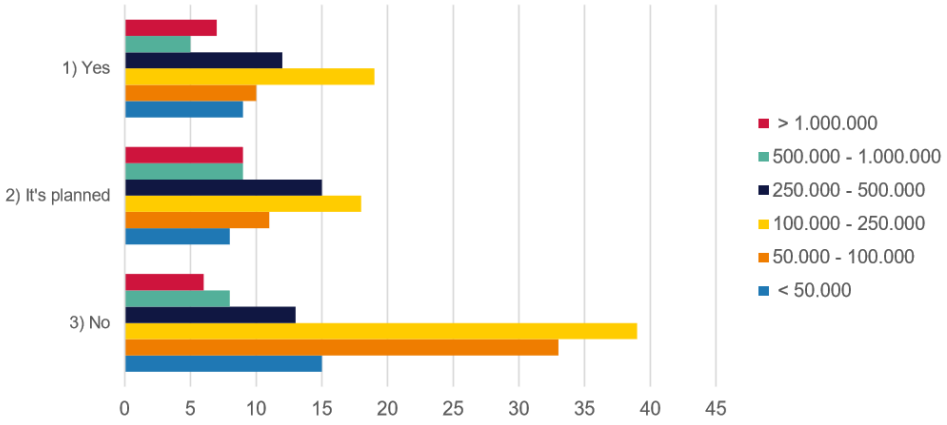
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



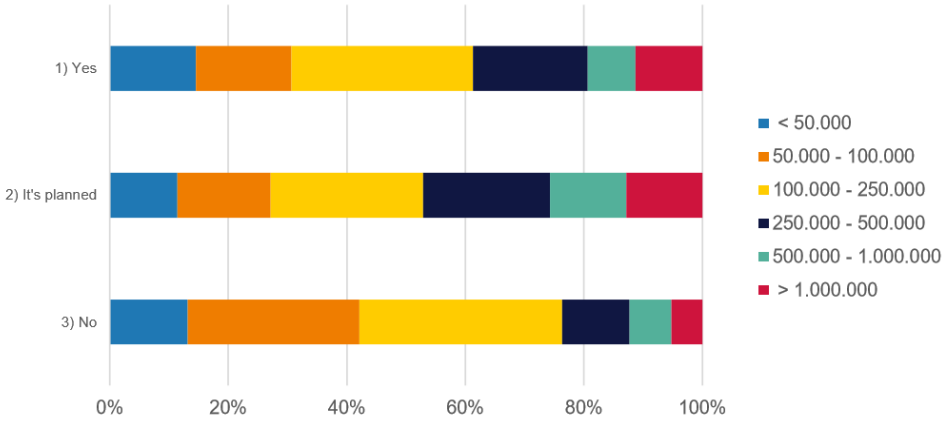
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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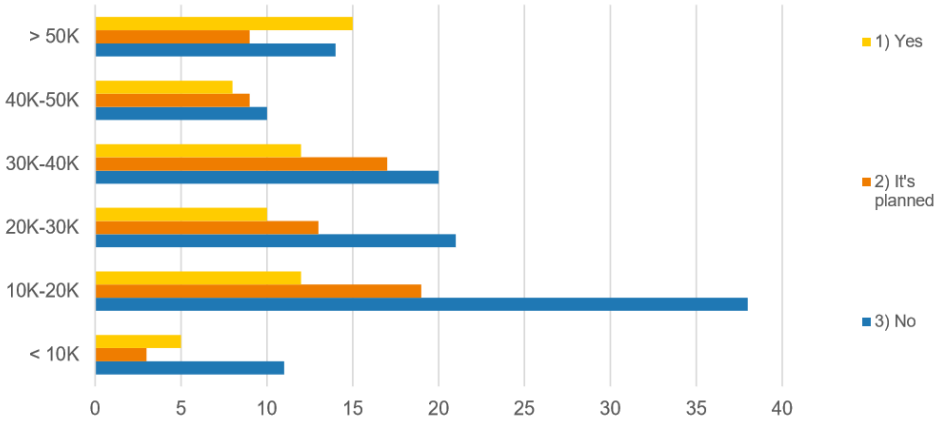
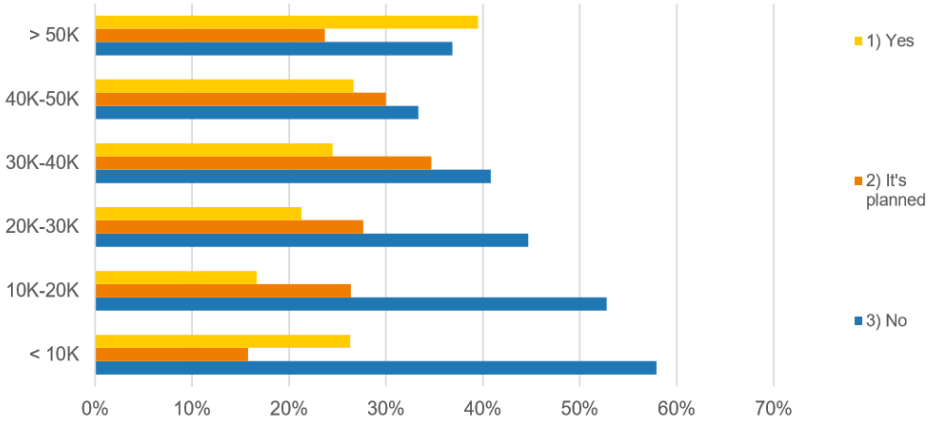


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

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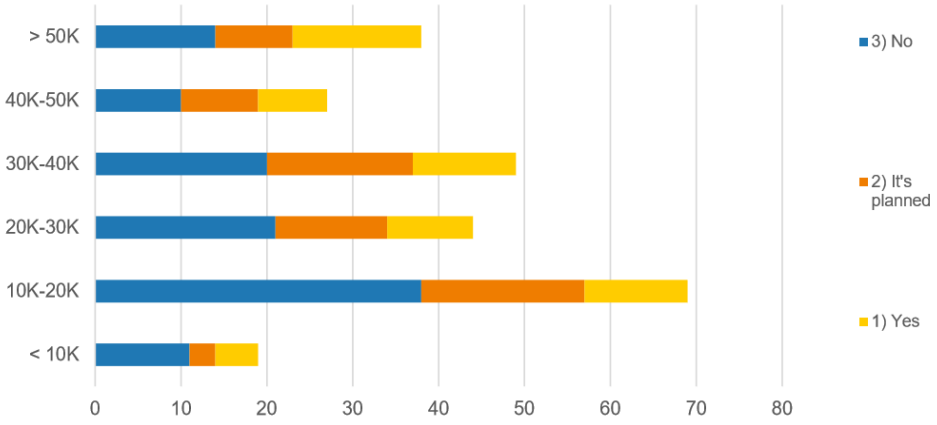

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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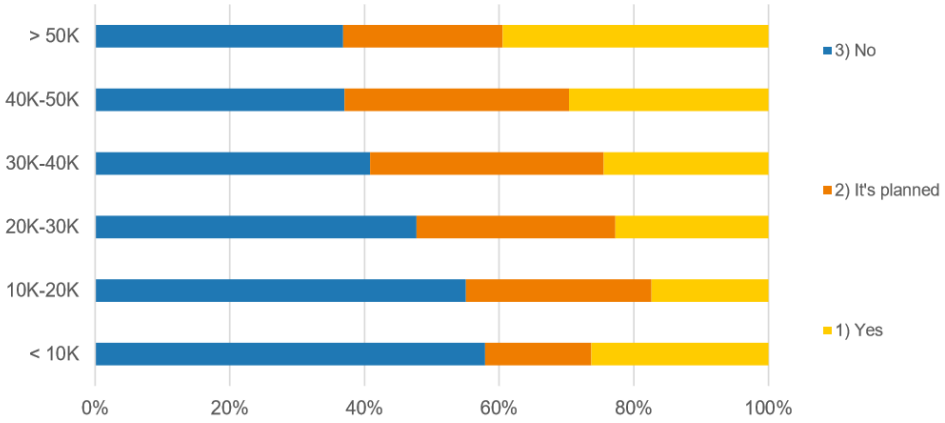

Question type	Data sample	Cluster	Value
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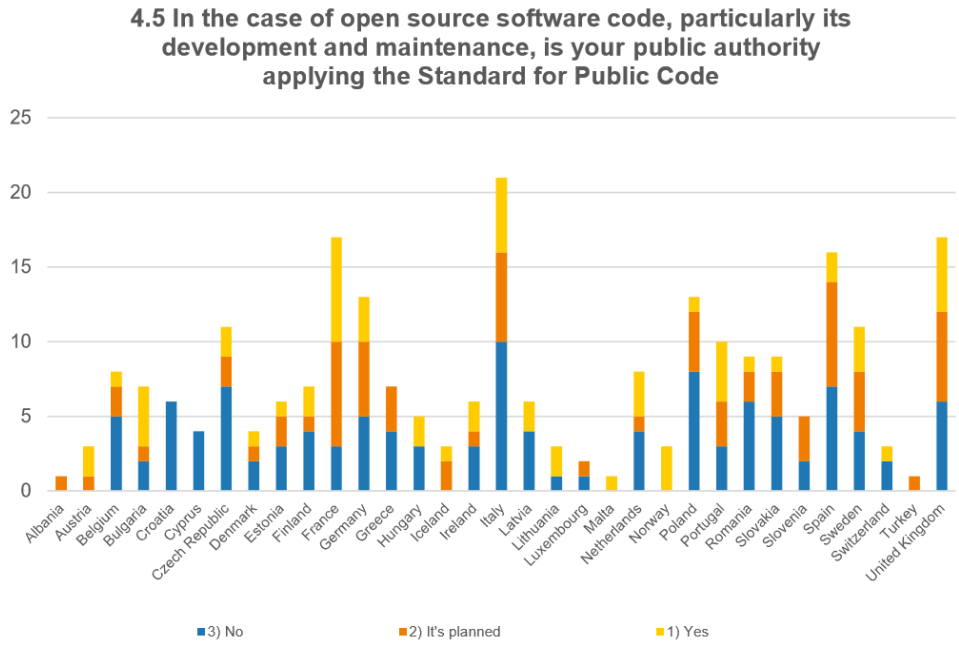
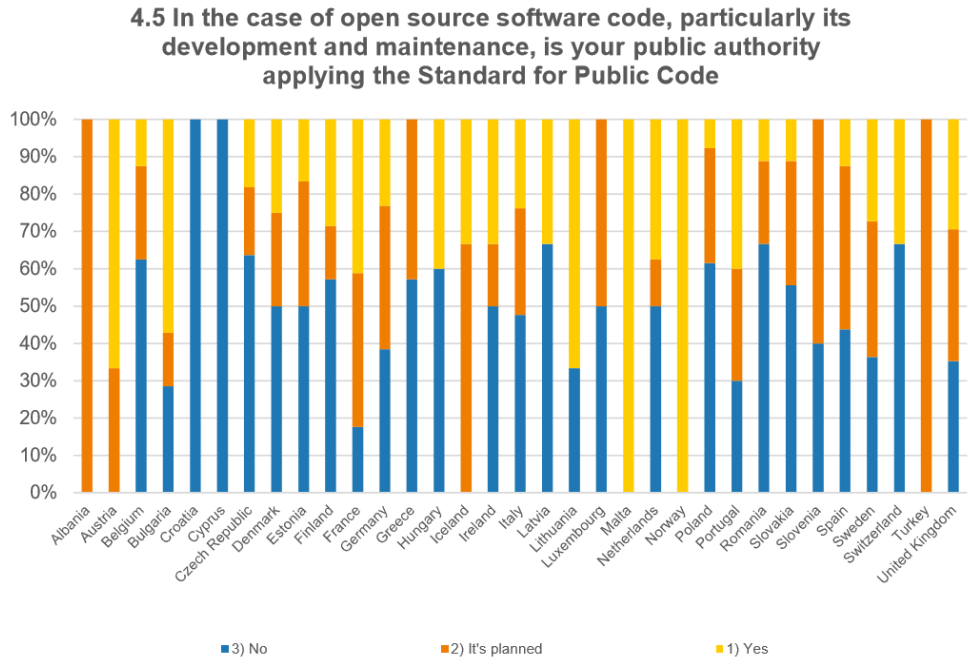


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code

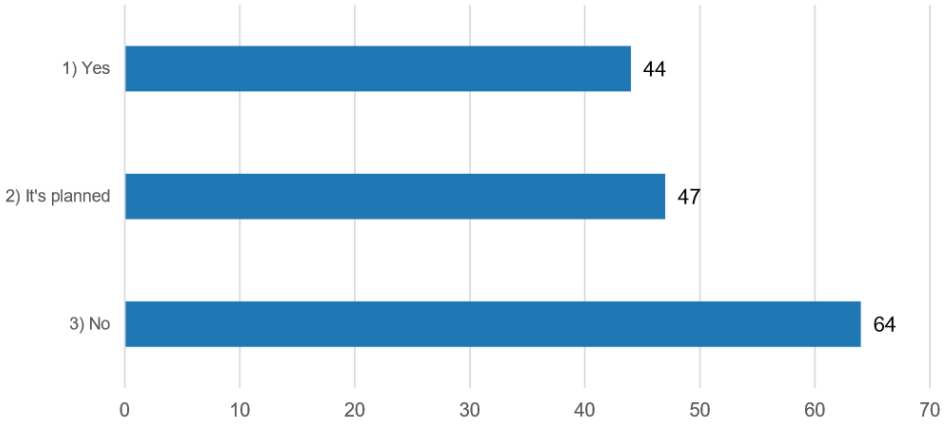
REFERENCE SAMPLE

Question type:	***Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	44	28%
2) It's planned	47	30%
3) No	64	41%

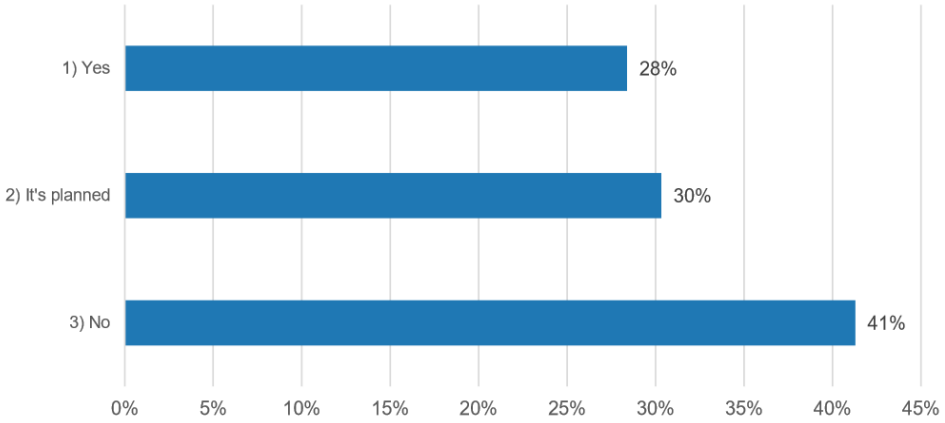
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
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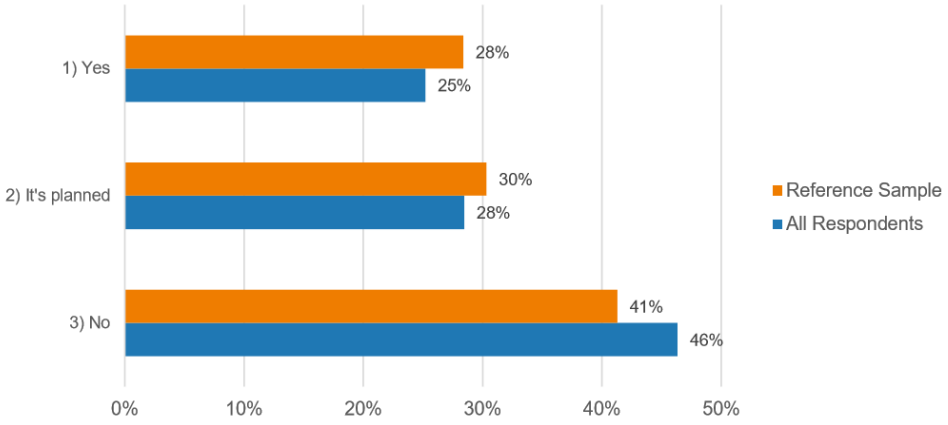

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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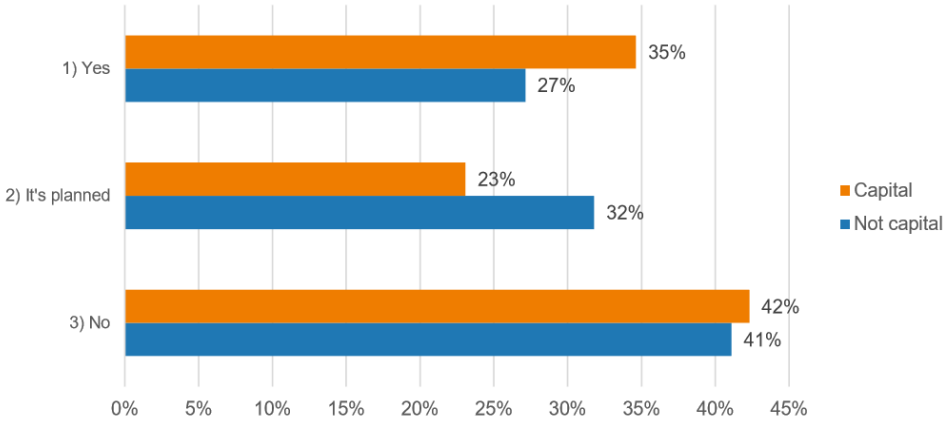
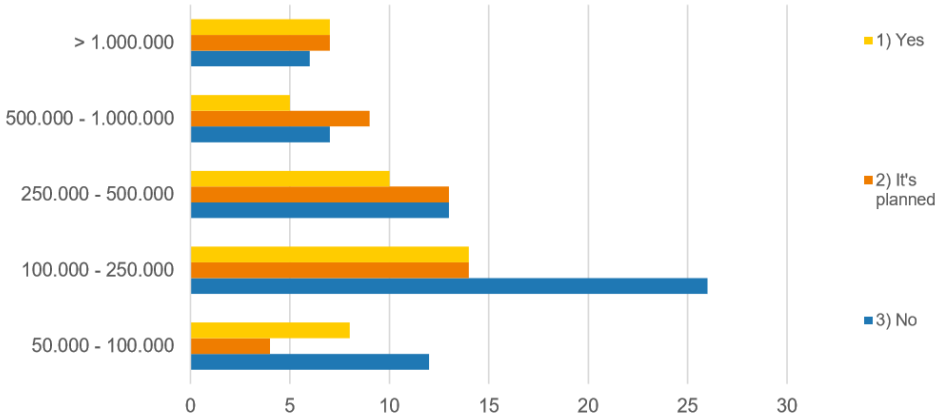


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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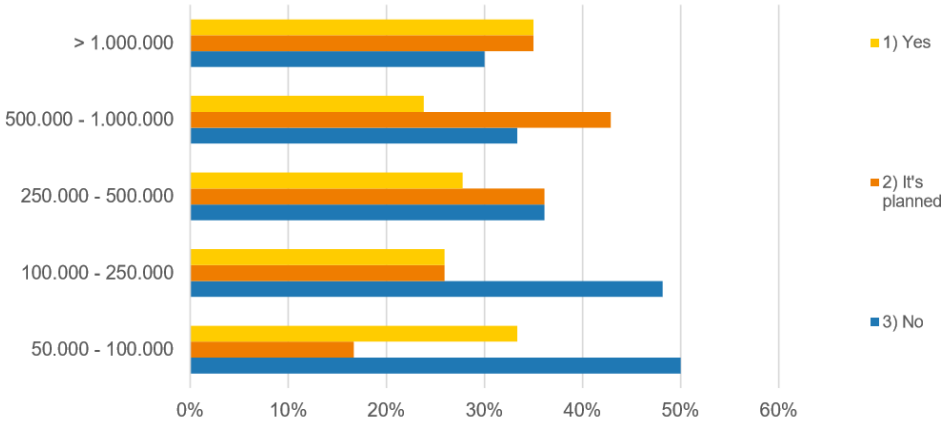
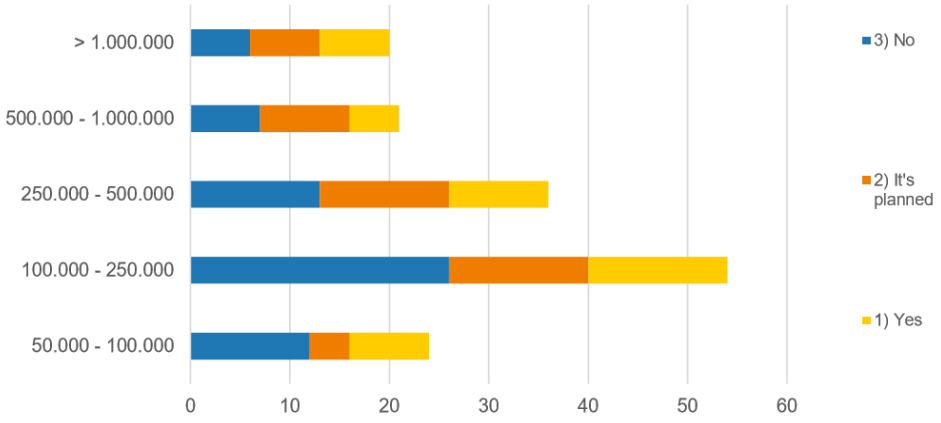


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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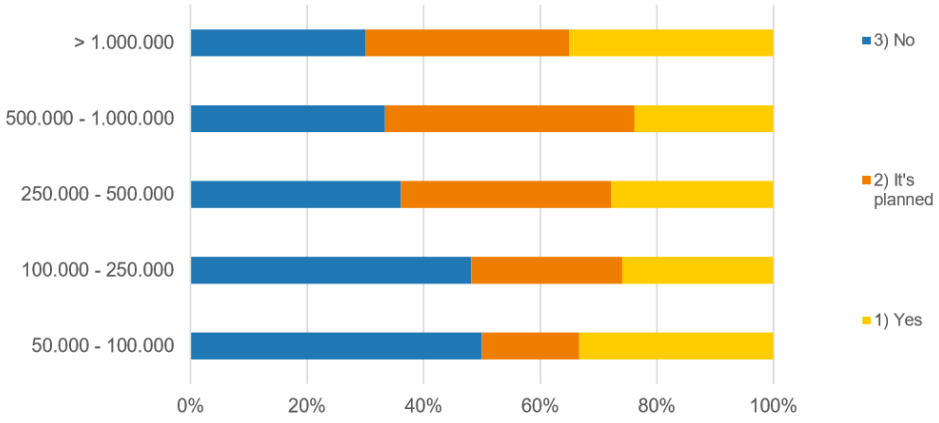

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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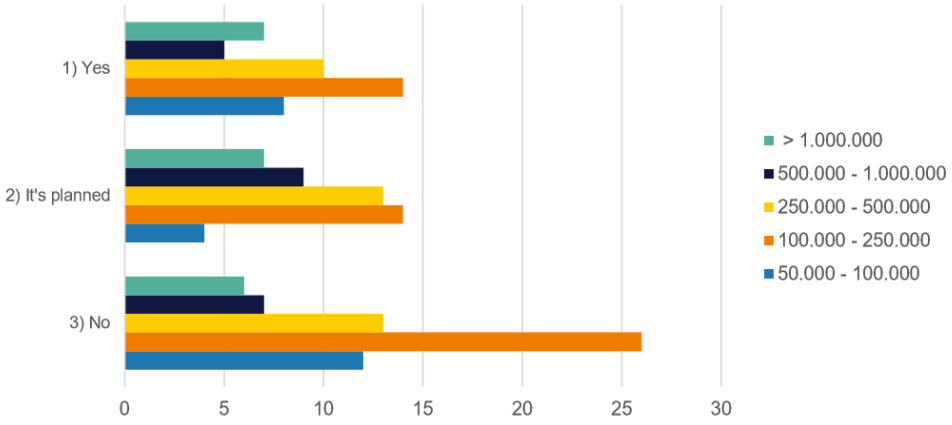

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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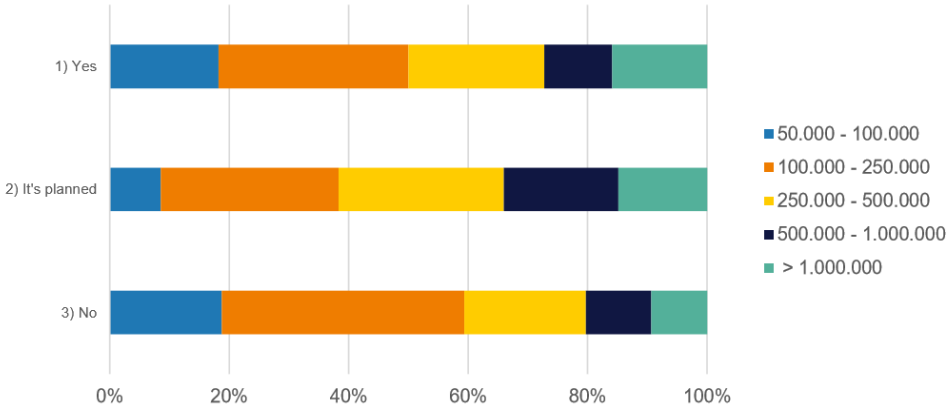
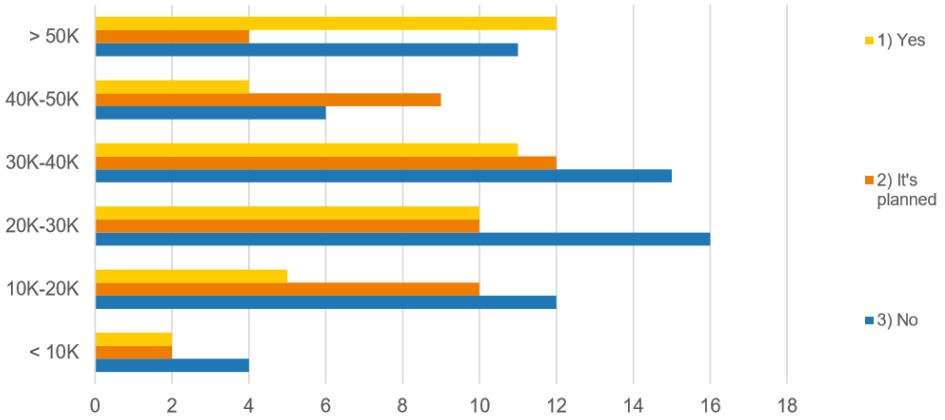


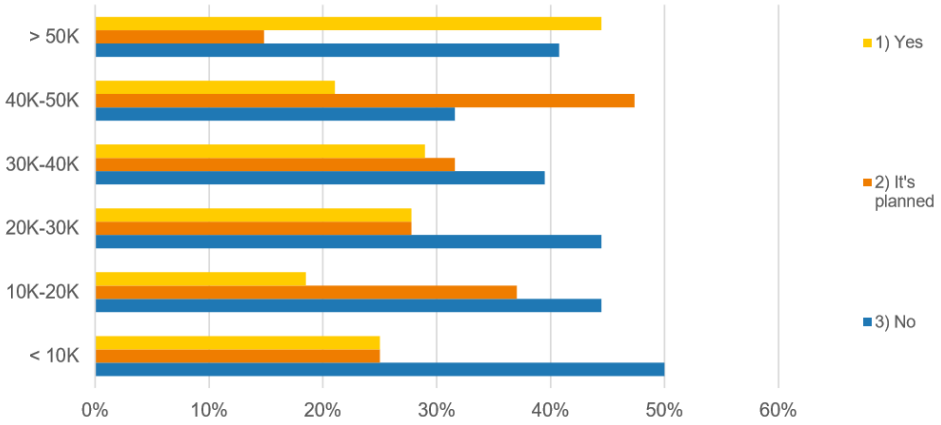
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



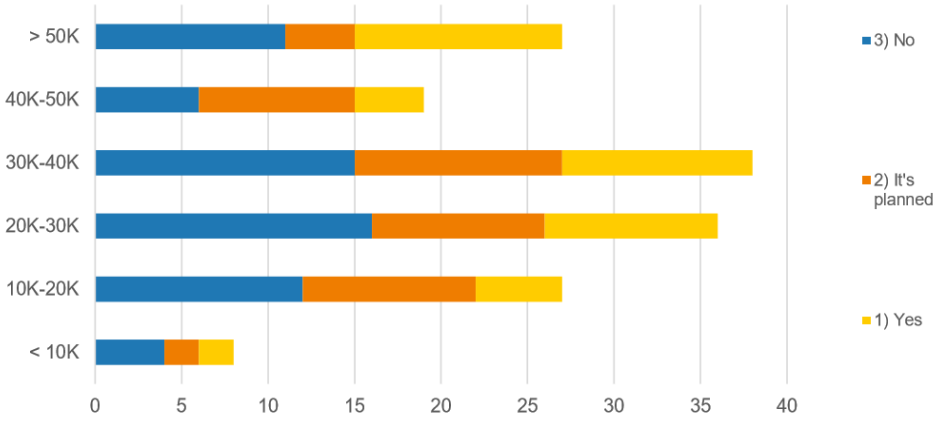
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



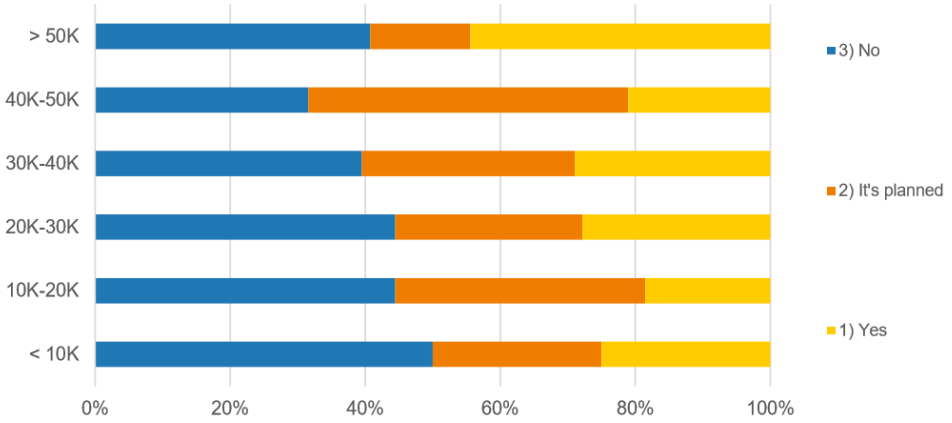
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code

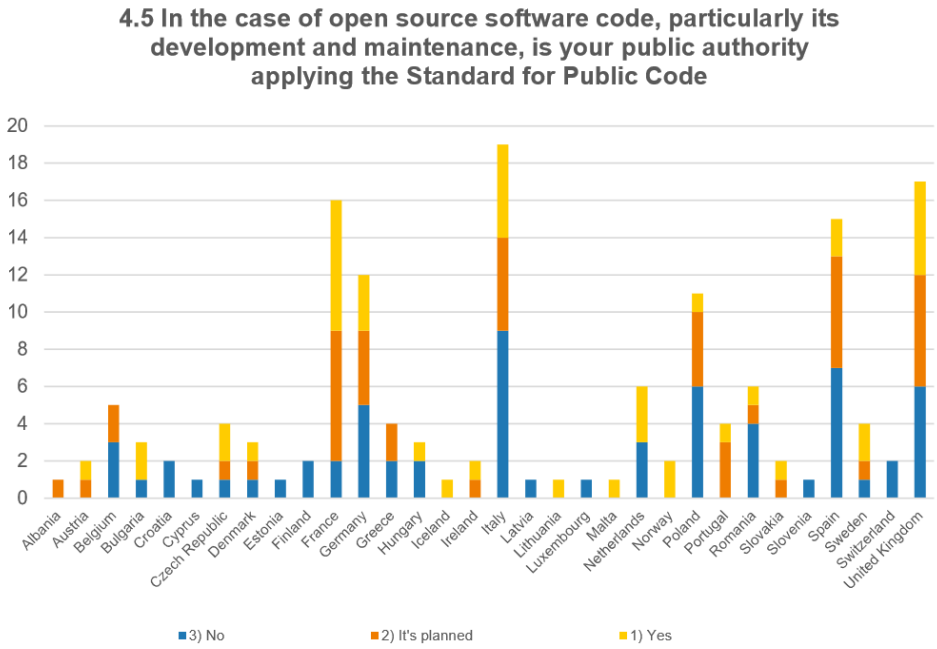


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

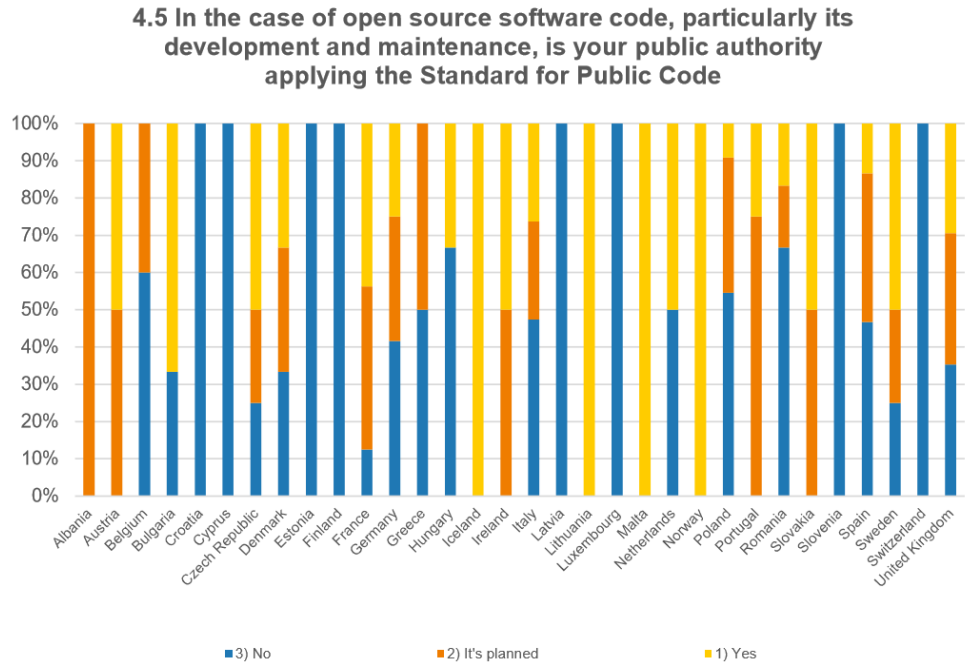
4.5 In the case of open source software code, particularly its development and maintenance, is your public authority applying the Standard for Public Code



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.21 Q_4.6 Does your public authority provide ICT training to its employees?

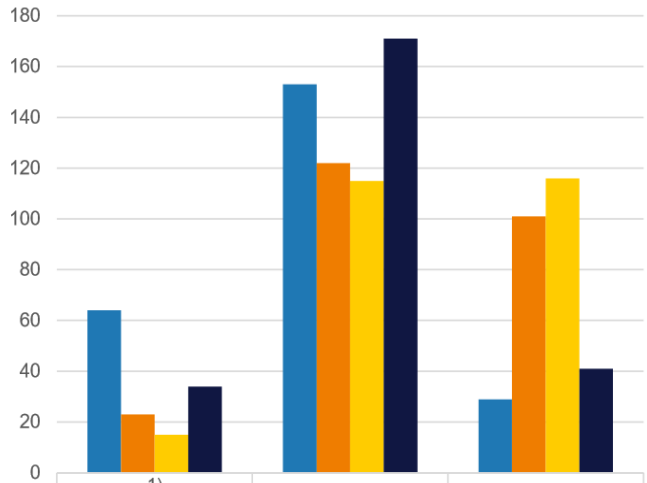
4.6 Does your public authority provide ICT training to its employees?:

ALL RESPONDENTS

Question typology: ***Matrix - Single choice***

Number of analysed questionnaires: **246**

Number of cities respond to this specific question: **246 (100%)**



	1) Mandatory	2) Optional	3) No
Basic course (e.g. MSFT Office tools, spreadsheets, cloud access, etc)	64	153	29
Data Management (e.g. open data)	23	122	101
Management of complex digital service infrastructures	15	115	116
Specialised platforms (e.g. GIS, e-procurement, etc)	34	171	41

4.6 Does your public authority provide ICT training to its employees?:

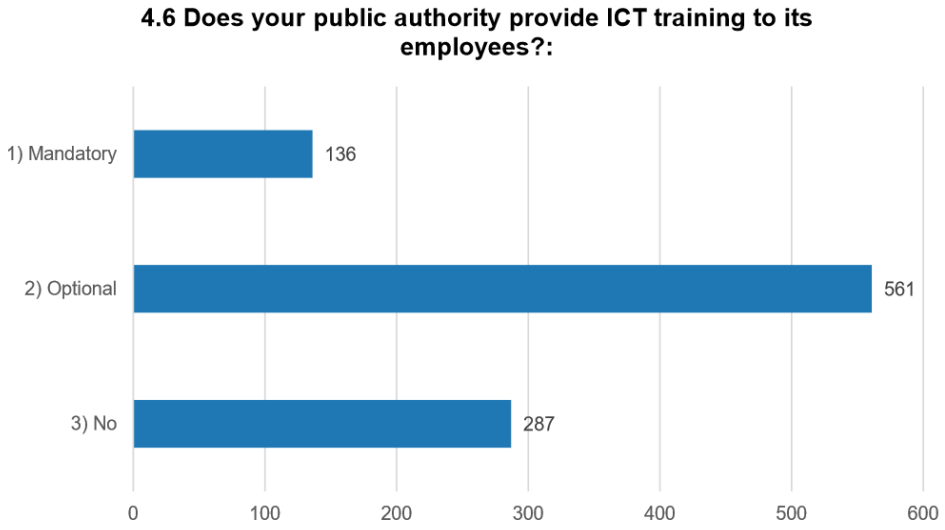
ALL RESPONDENTS

Question typology:	***Matrix - Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**246 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Mandatory	136	14%
2) Optional	561	57%
3) No	287	29%

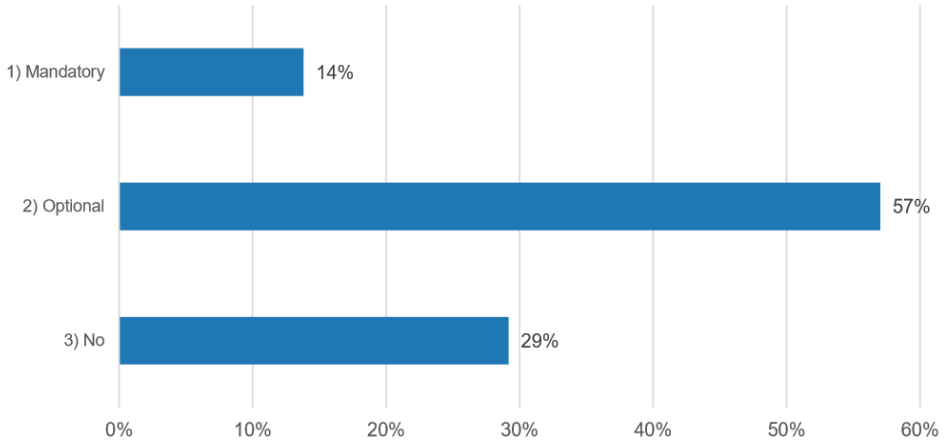
* The Count is given by the sum of all the selected rows within the same matrix column

*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*



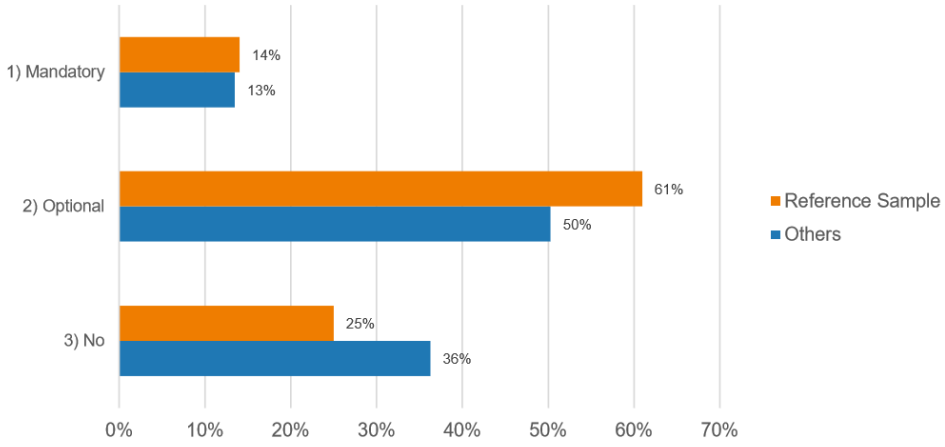
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	-	Count

4.6 Does your public authority provide ICT training to its employees?:



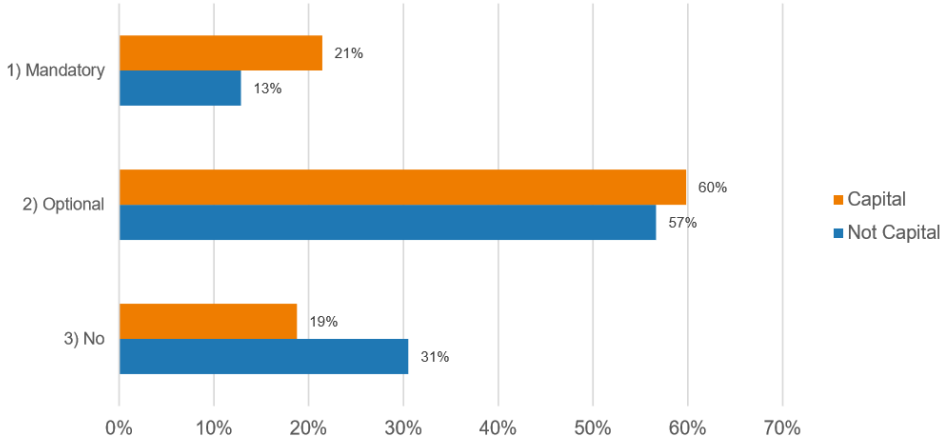
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	-	Percentage

4.6 Does your public authority provide ICT training to its employees?:

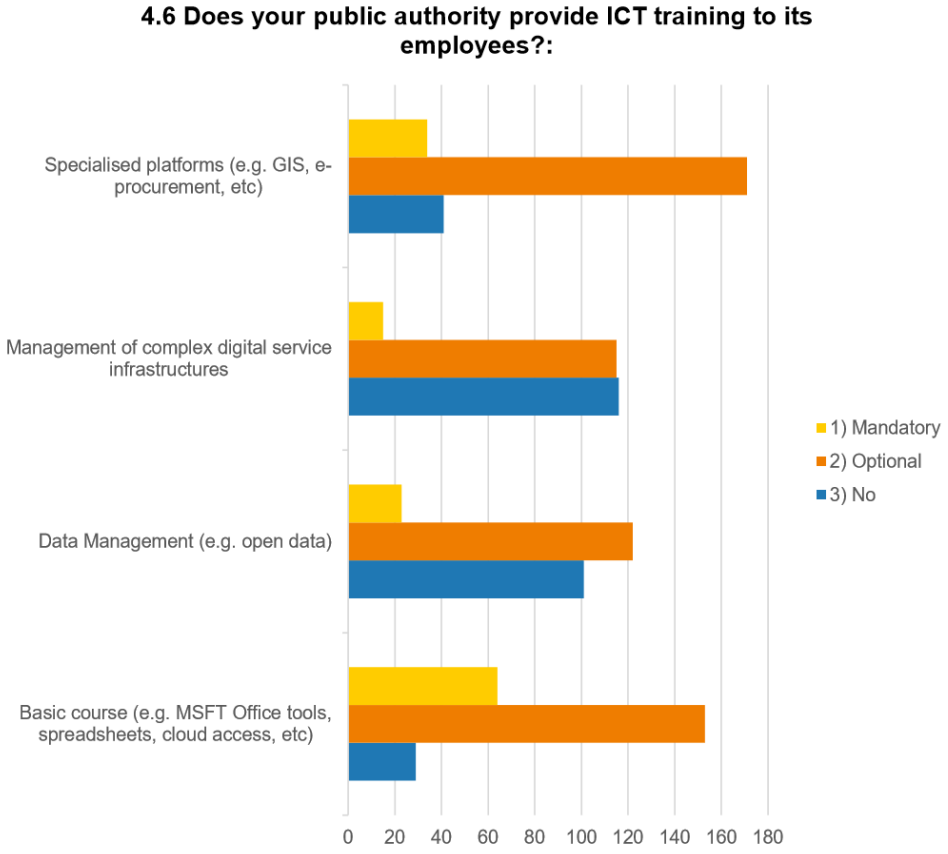


Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Reference Sample	Percentage

4.6 Does your public authority provide ICT training to its employees?:

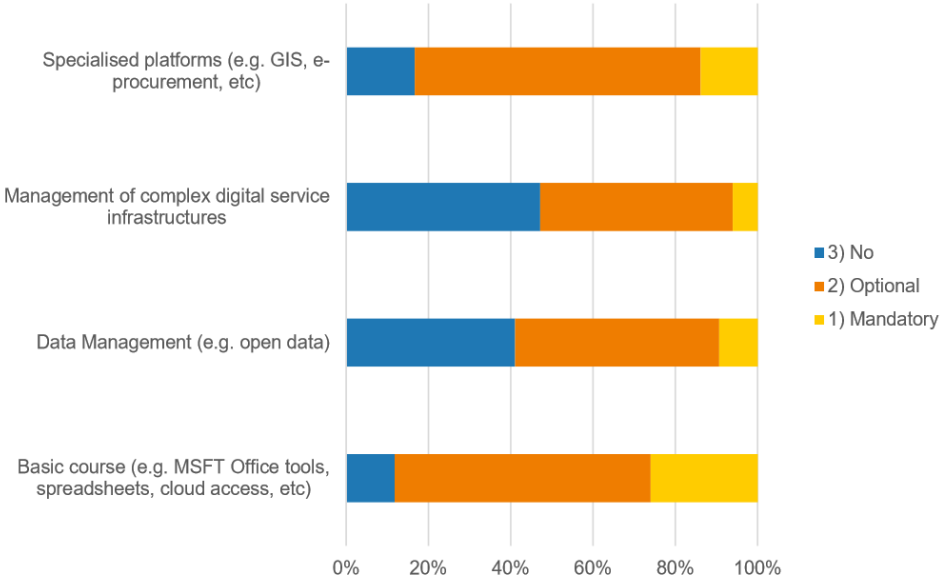


Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Capital cities	Percentage



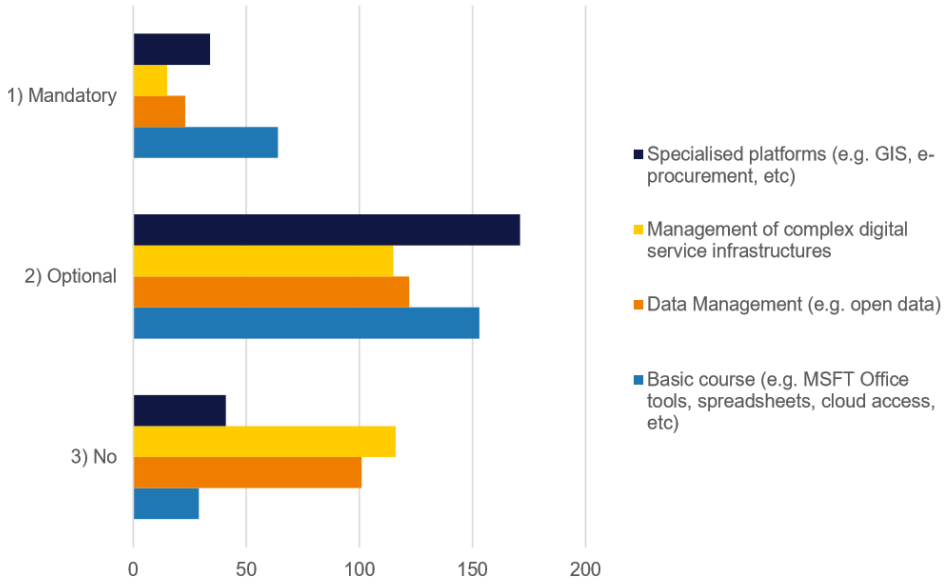
Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Count

4.6 Does your public authority provide ICT training to its employees?:



Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Percentage

4.6 Does your public authority provide ICT training to its employees?:

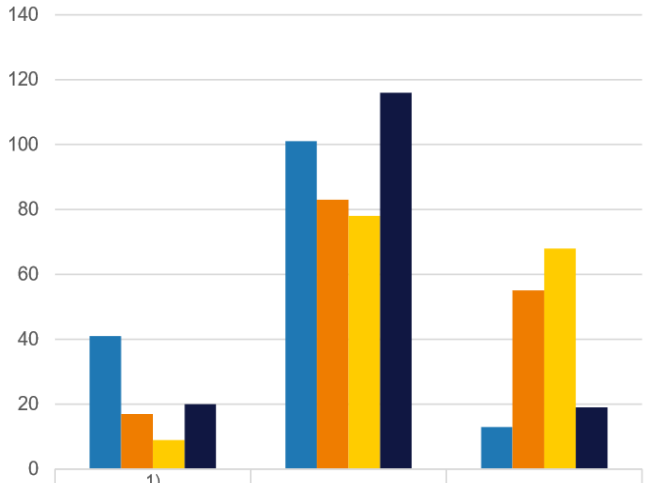


Question typology	Data	Cluster	Value
Matrix - Single choice	All Respondents	Matrix	Count

4.6 Does your public authority provide ICT training to its employees?:

REFERENCE SAMPLE

Question typology:	***Matrix - Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**



	1) Mandatory	2) Optional	3) No
Basic course (e.g. MSFT Office tools, spreadsheets, cloud access, etc)	41	101	13
Data Management (e.g. open data)	17	83	55
Management of complex digital service infrastructures	9	78	68
Specialised platforms (e.g. GIS, e-procurement, etc)	20	116	19

4.6 Does your public authority provide ICT training to its employees?:

REFERENCE SAMPLE

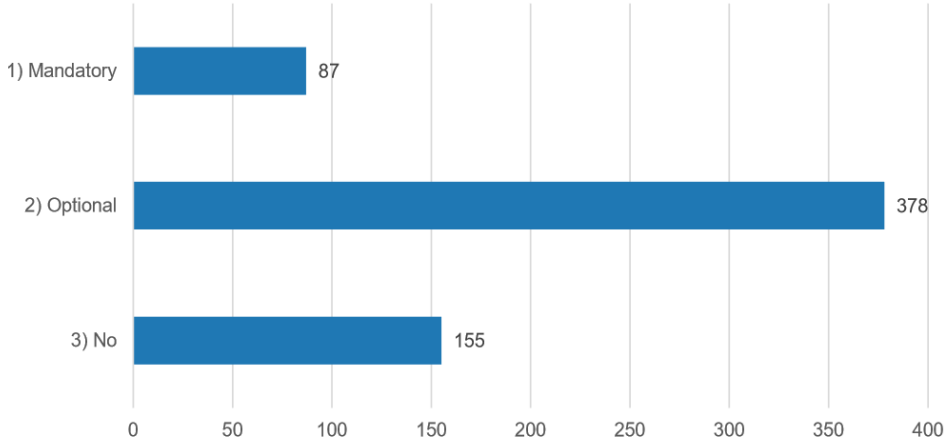
Question typology:	***Matrix - Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Mandatory	87	14%
2) Optional	378	61%
3) No	155	25%

* The Count is given by the sum of all the selected rows within the same matrix column

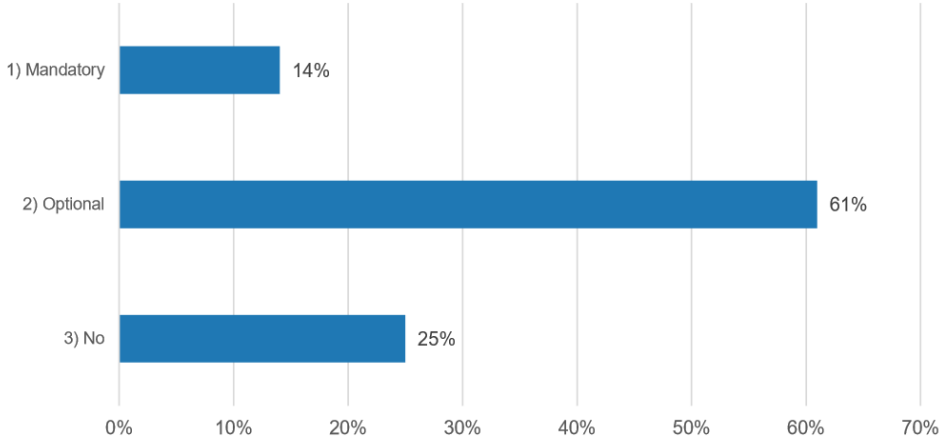
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.6 Does your public authority provide ICT training to its employees?:



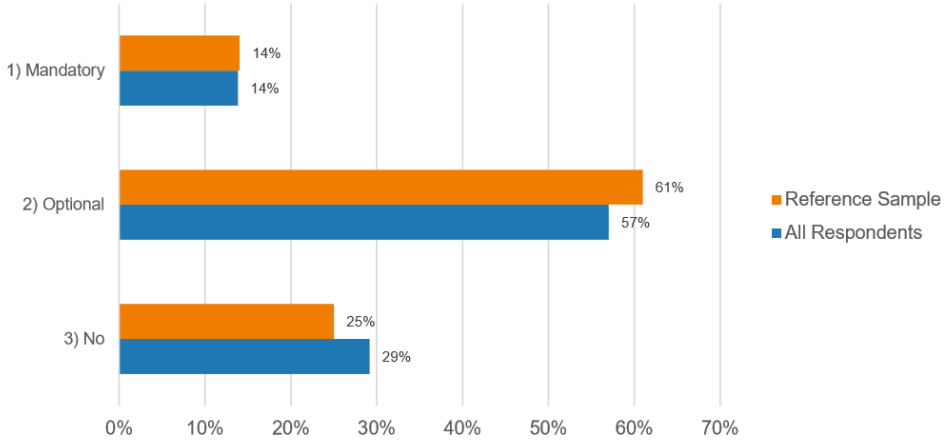
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	-	Count

4.6 Does your public authority provide ICT training to its employees?:

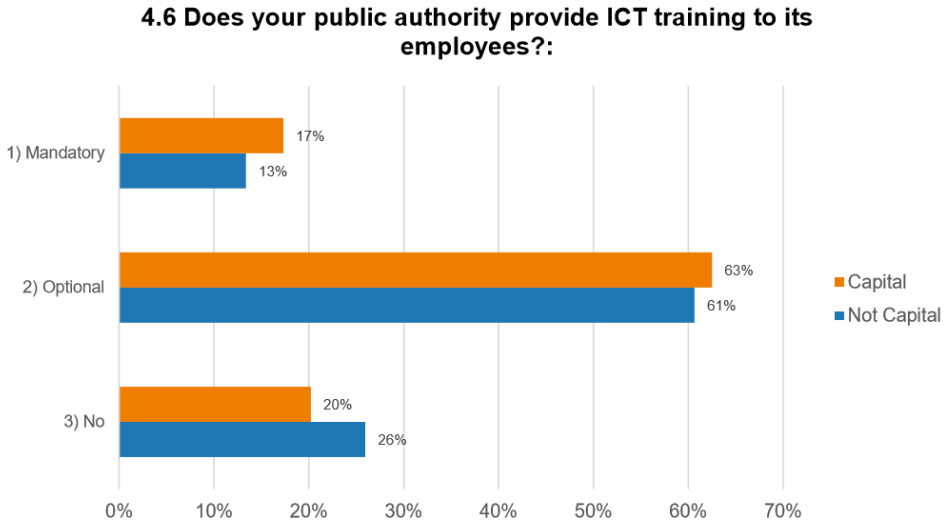


Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	-	Percentage

4.6 Does your public authority provide ICT training to its employees?:

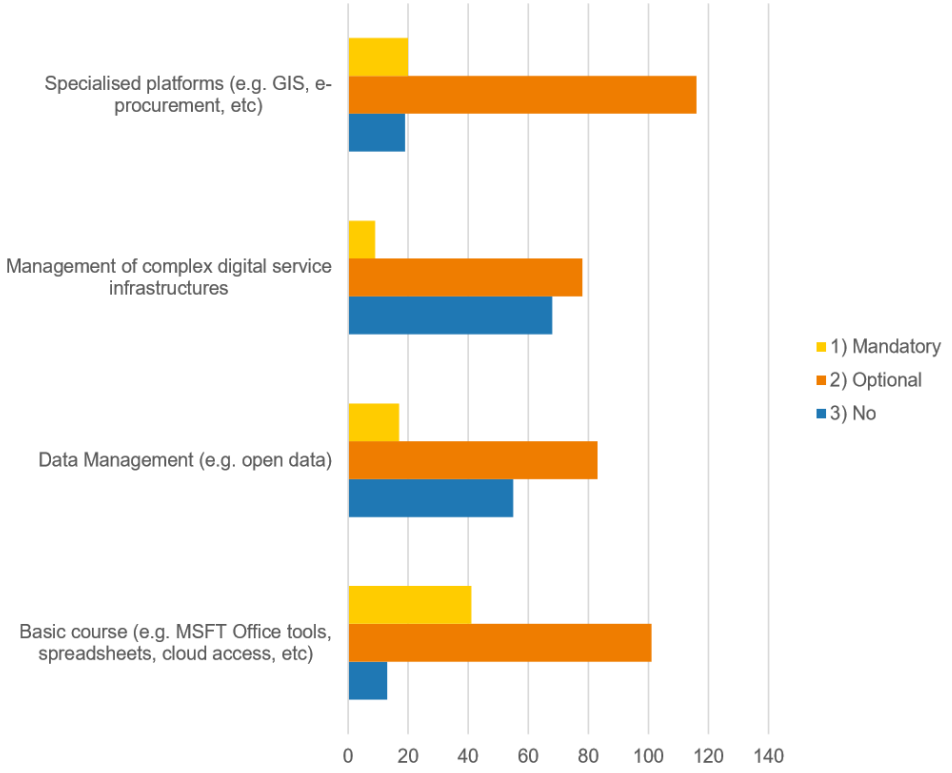


Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Reference Sample	Percentage



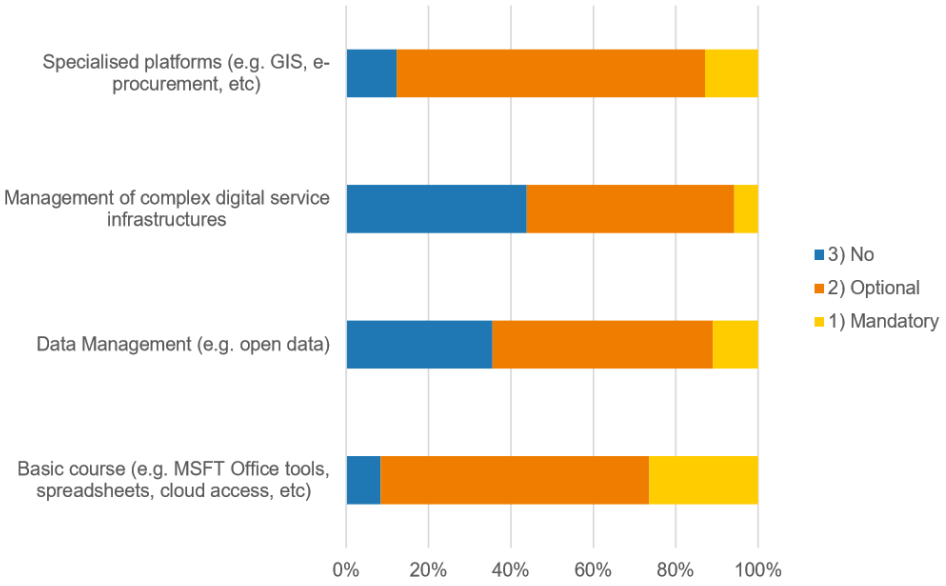
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Capital cities	Percentage

4.6 Does your public authority provide ICT training to its employees?:



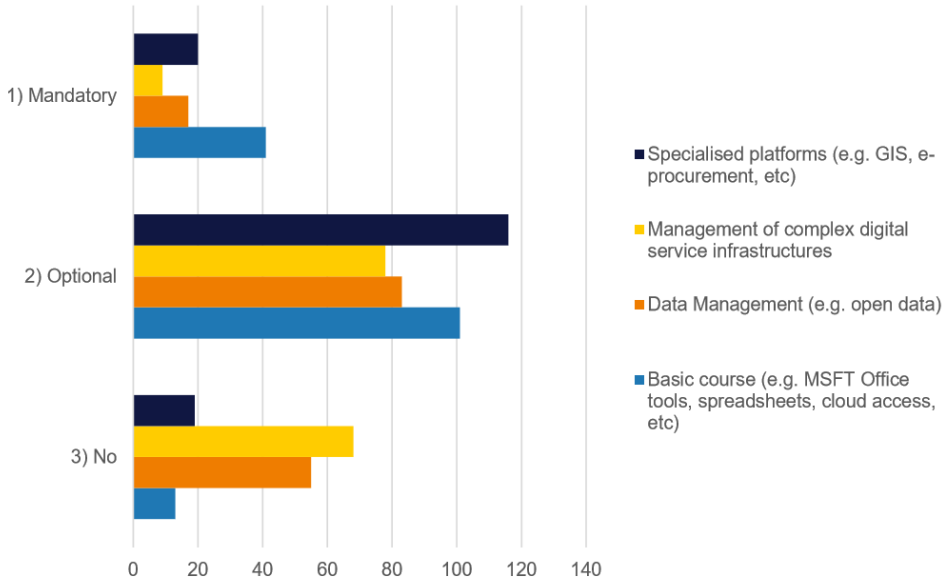
Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Count

4.6 Does your public authority provide ICT training to its employees?:



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Percentage

4.6 Does your public authority provide ICT training to its employees?:



Question typology	Data	Cluster	Value
Matrix - Single choice	Reference Sample	Matrix	Count

3.22 Q_4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:

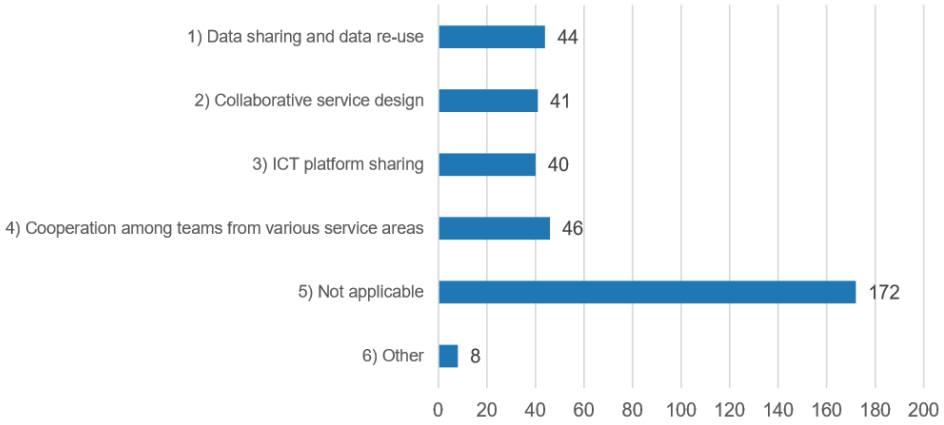
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Data sharing and data re-use	44	18%
2) Collaborative service design	41	17%
3) ICT platform sharing	40	16%
4) Cooperation among teams from various service areas	46	19%
5) Not applicable	172	70%
6) Other	8	3%

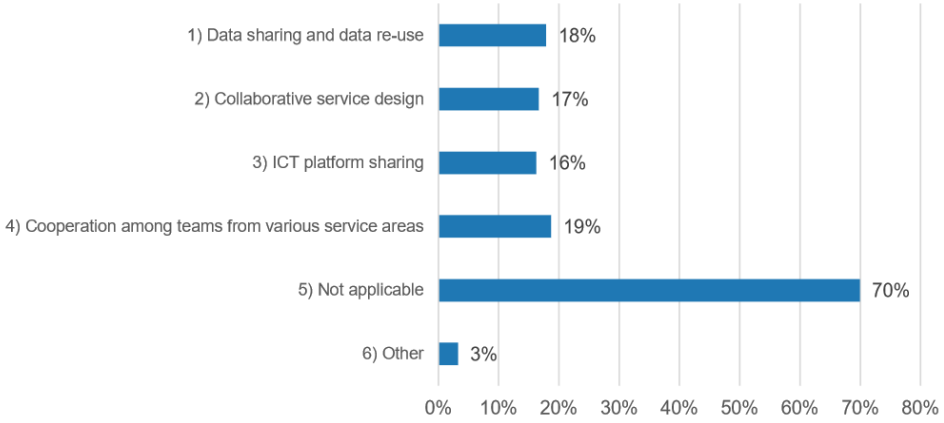
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

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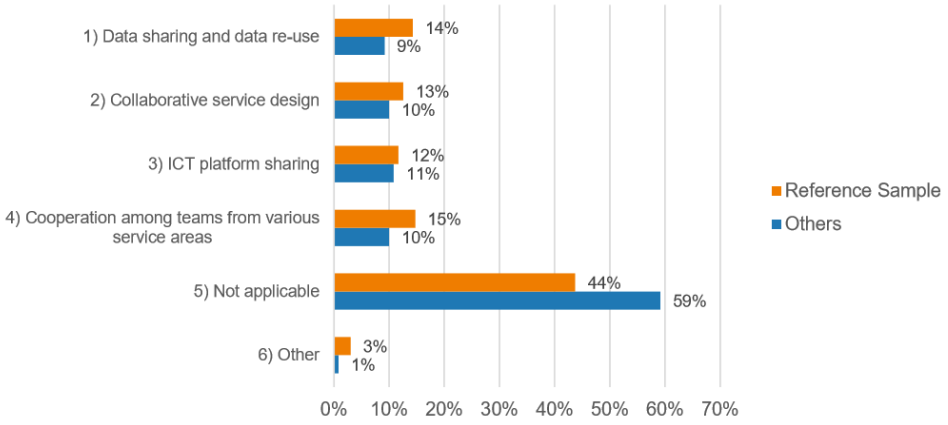
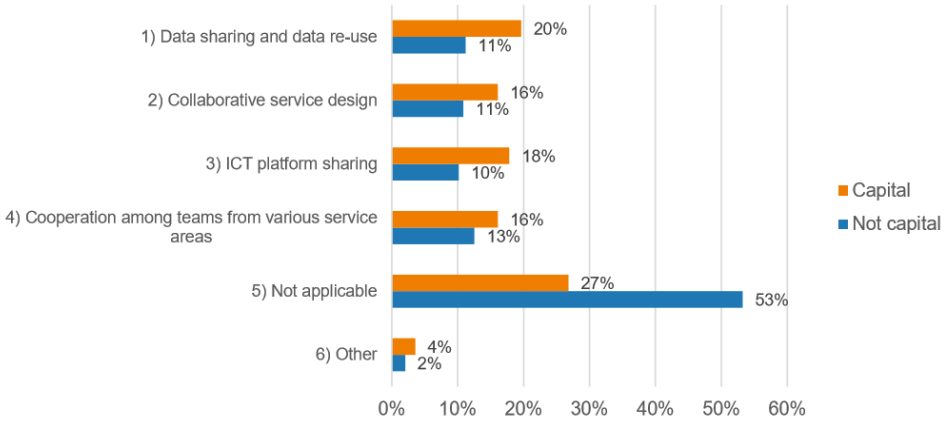


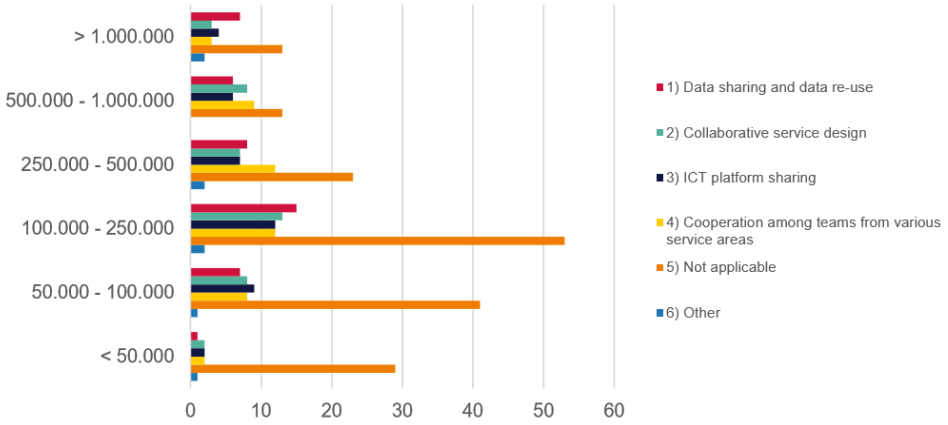
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



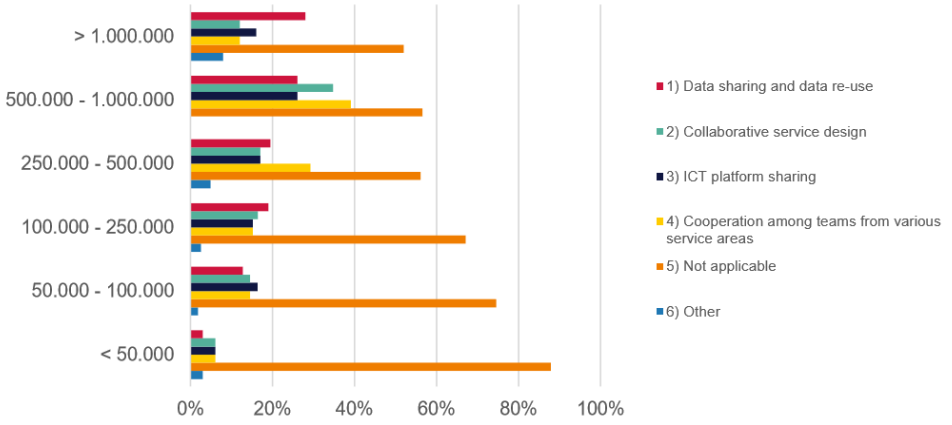
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
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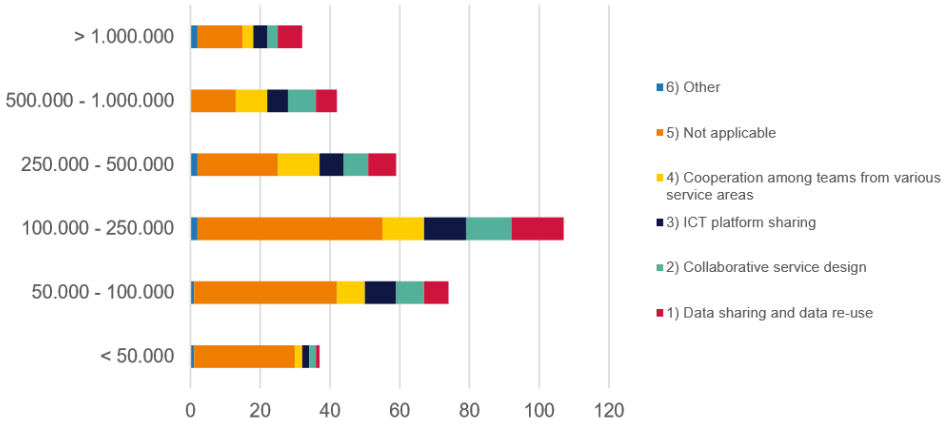

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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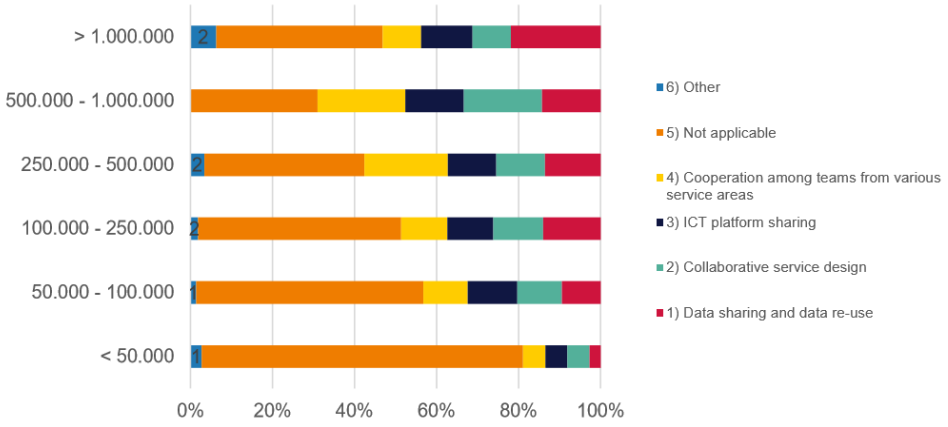

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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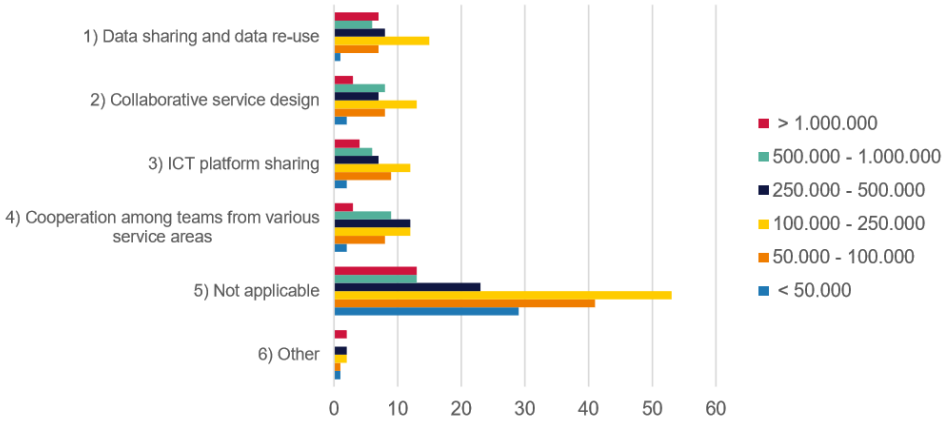

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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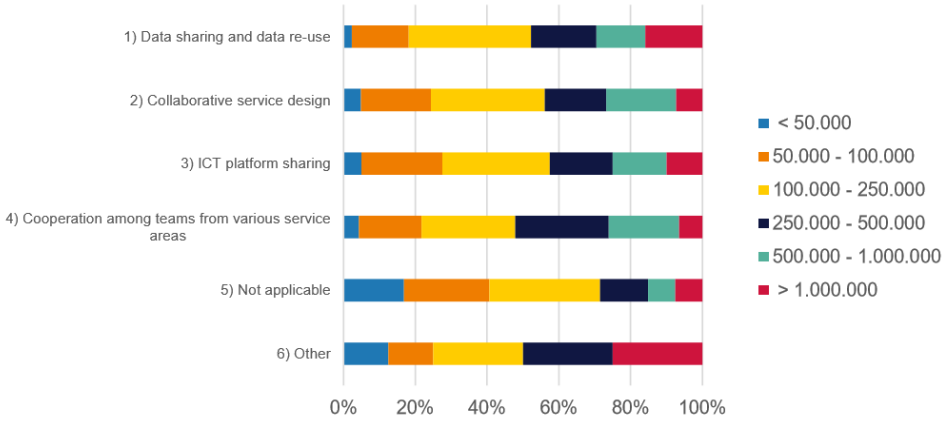

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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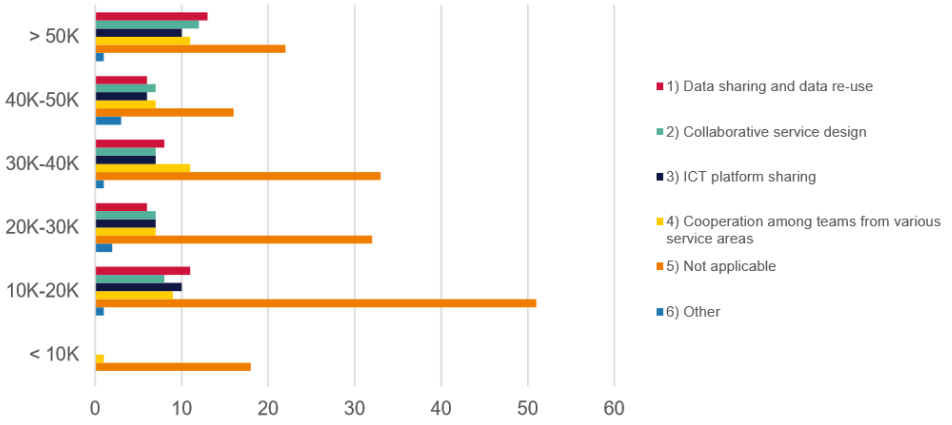
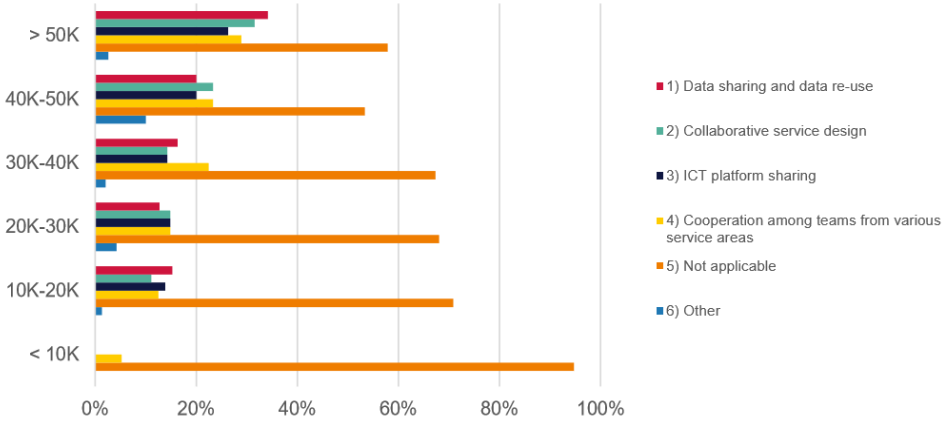


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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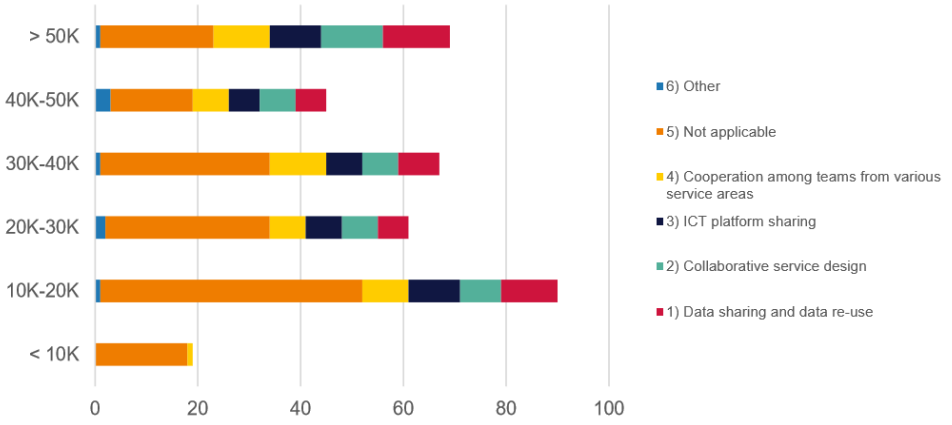
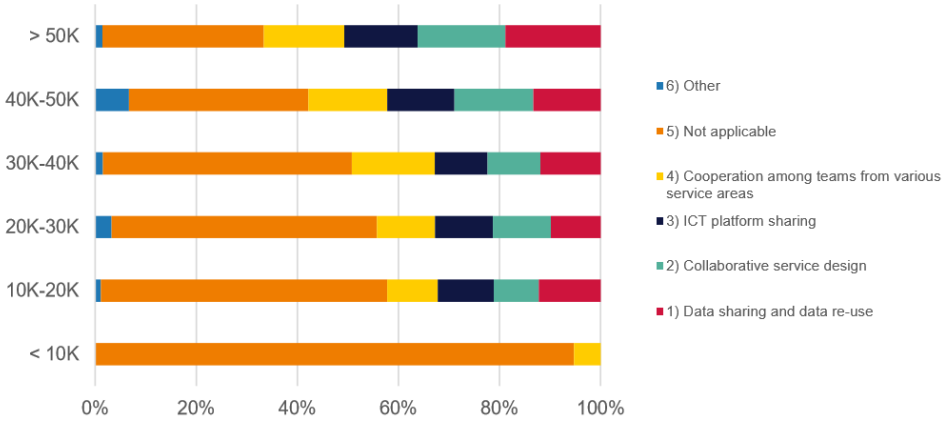
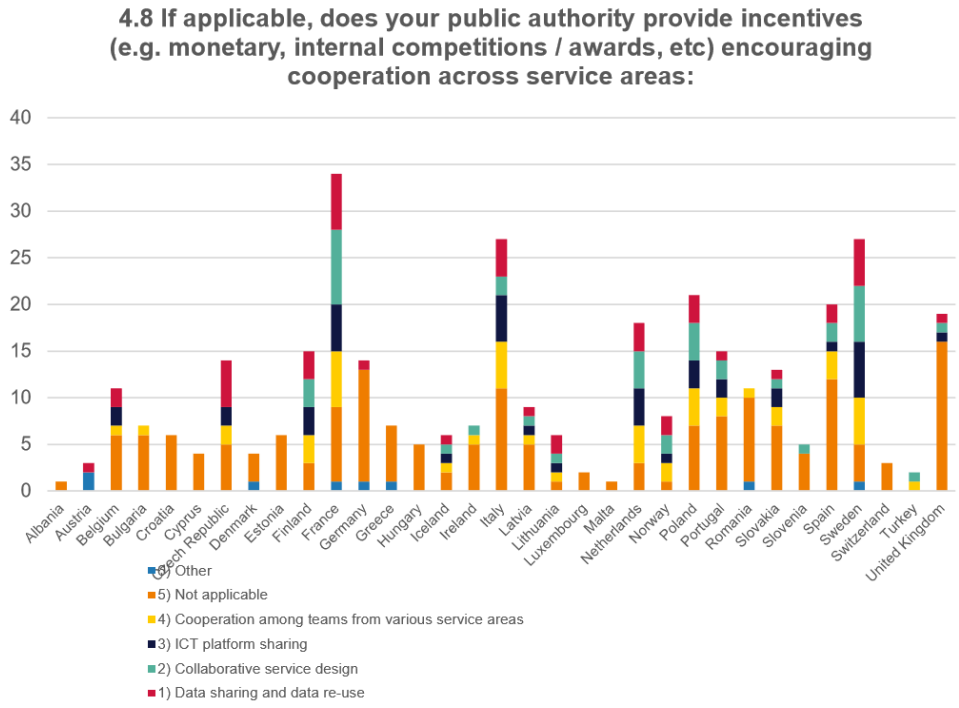


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:

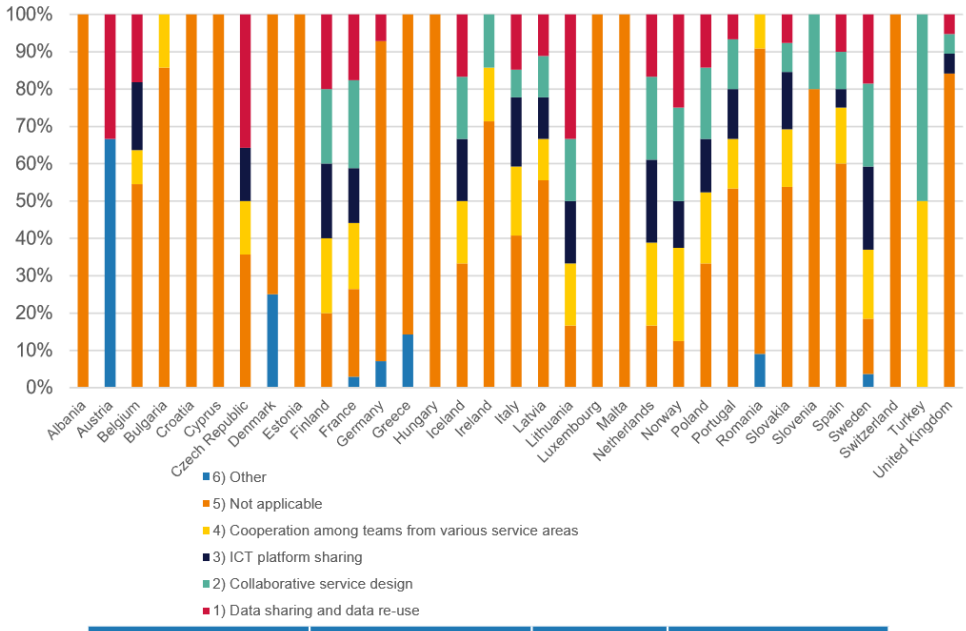


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:

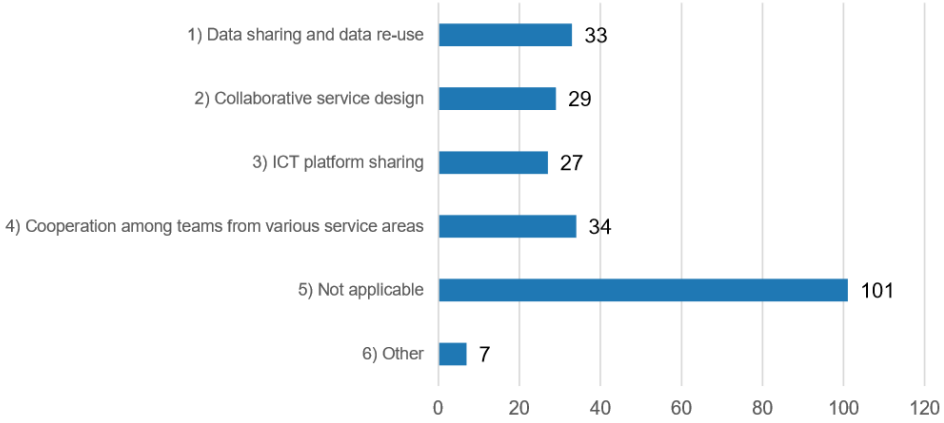
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) Data sharing and data re-use	33	21%
2) Collaborative service design	29	19%
3) ICT platform sharing	27	17%
4) Cooperation among teams from various service areas	34	22%
5) Not applicable	101	65%
6) Other	7	5%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

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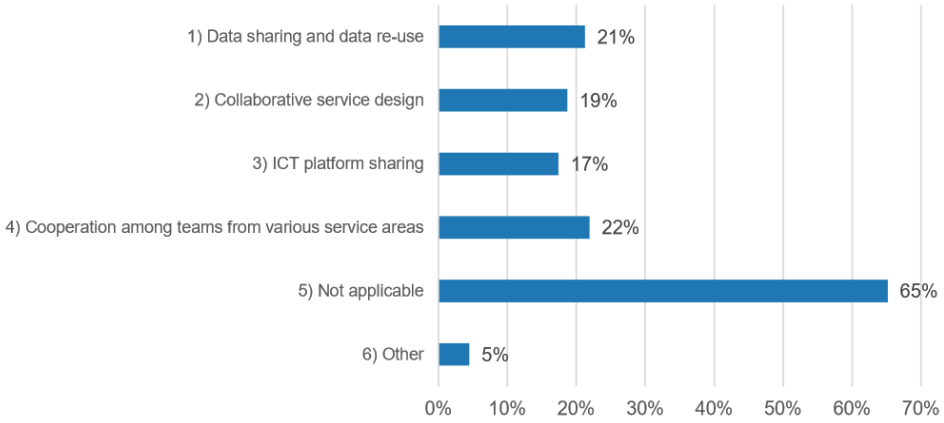

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

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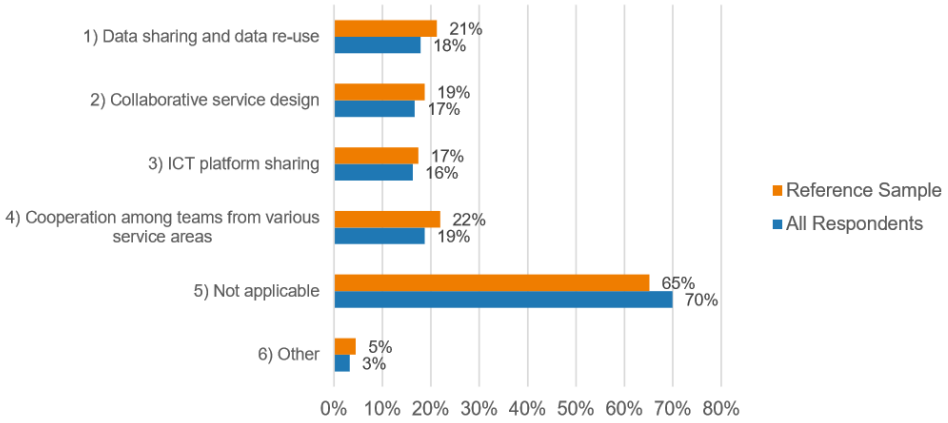

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

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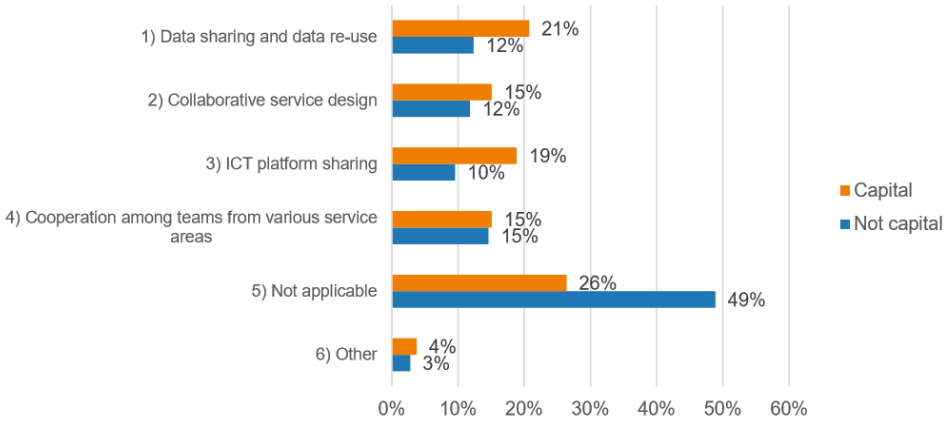
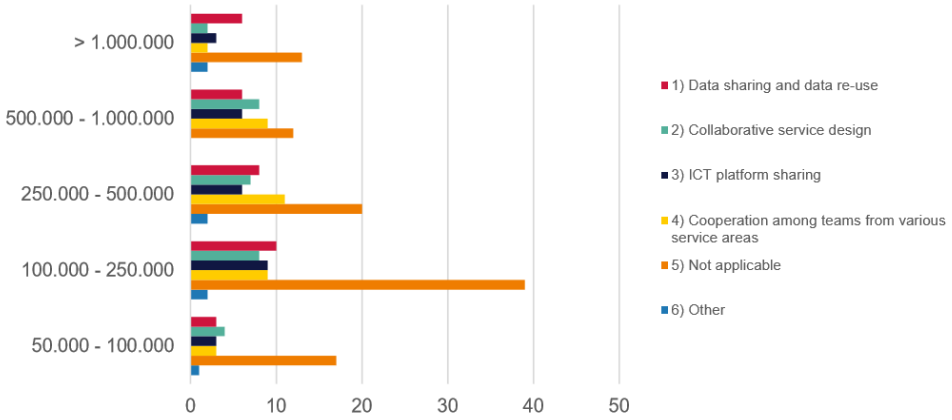


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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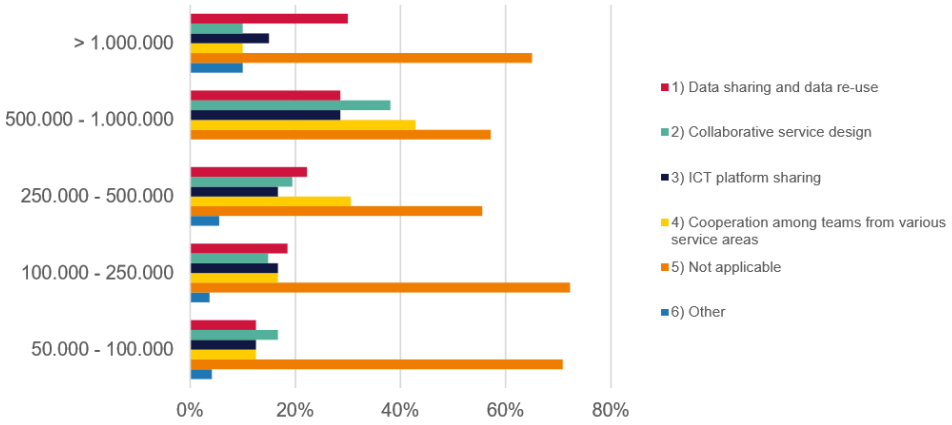

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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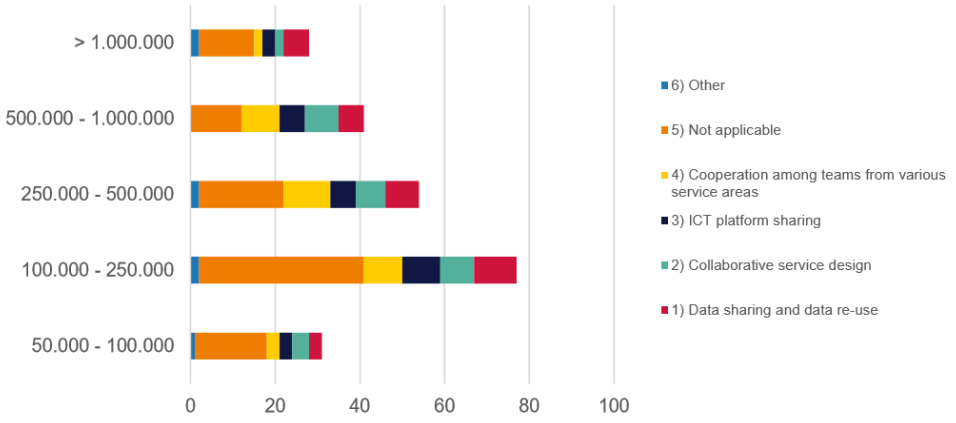

Question type	Data sample	Cluster	Value
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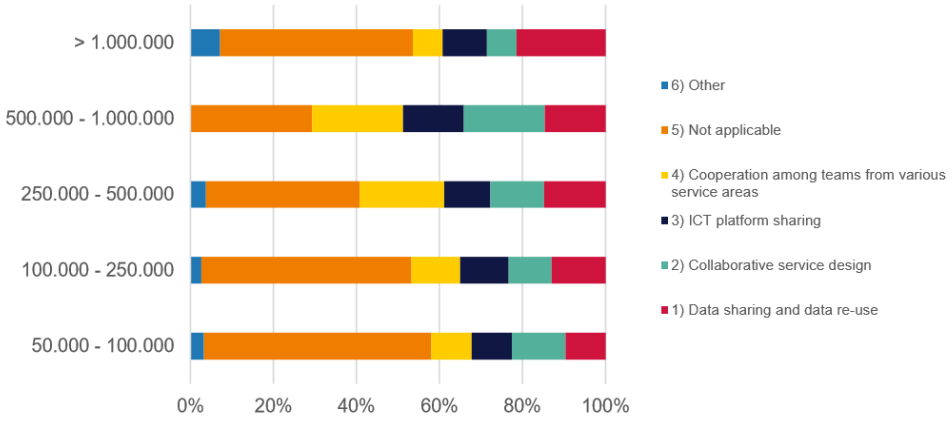

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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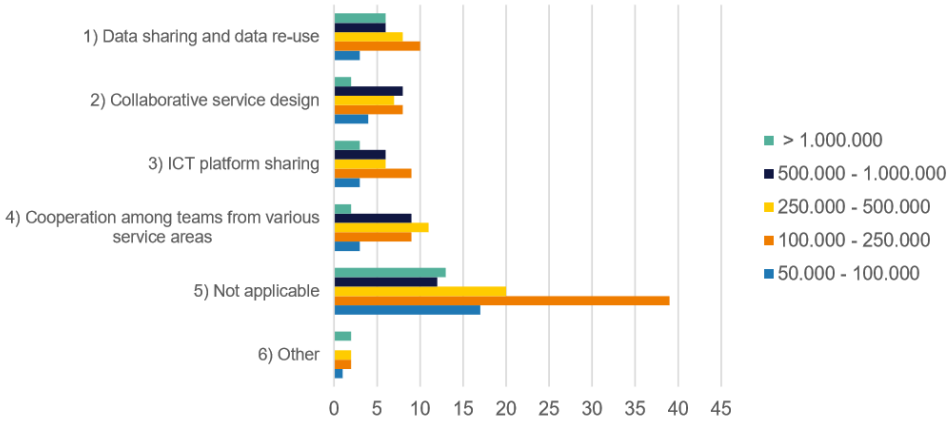

Question type	Data sample	Cluster	Value
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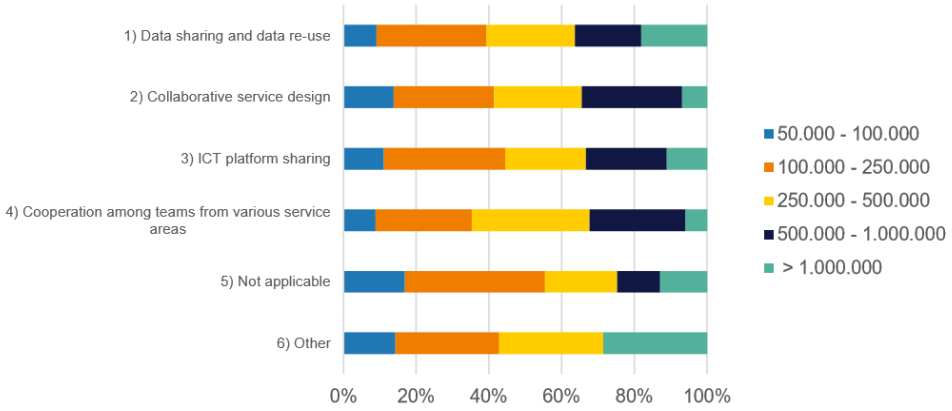

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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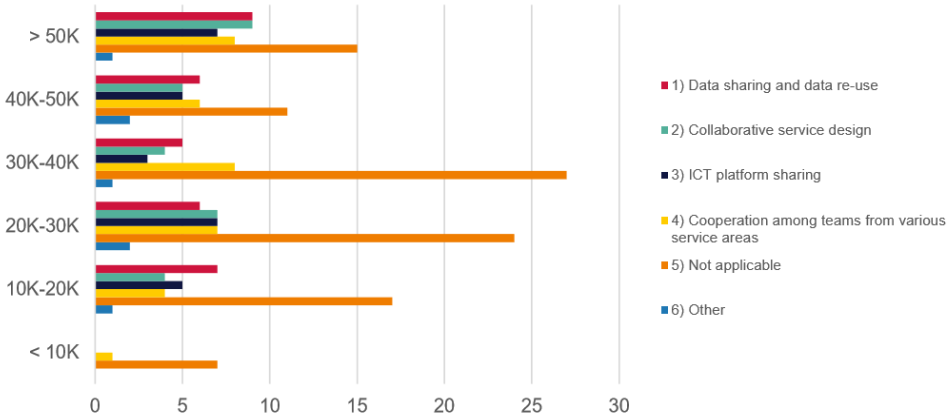
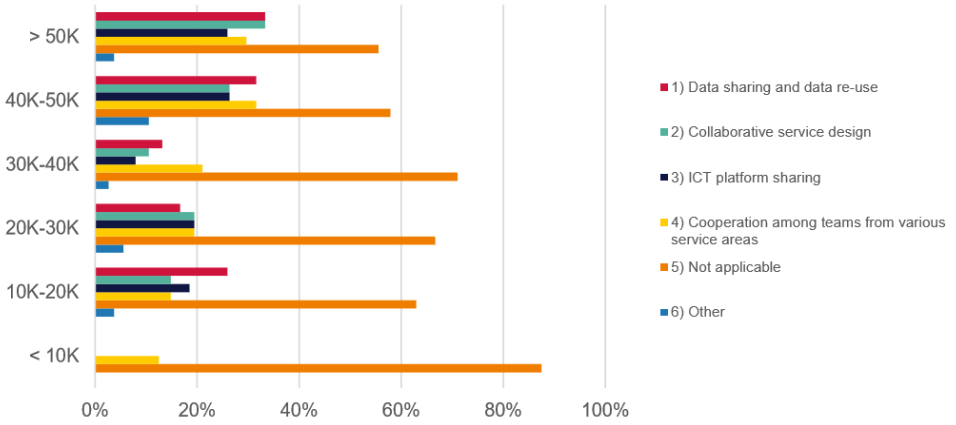


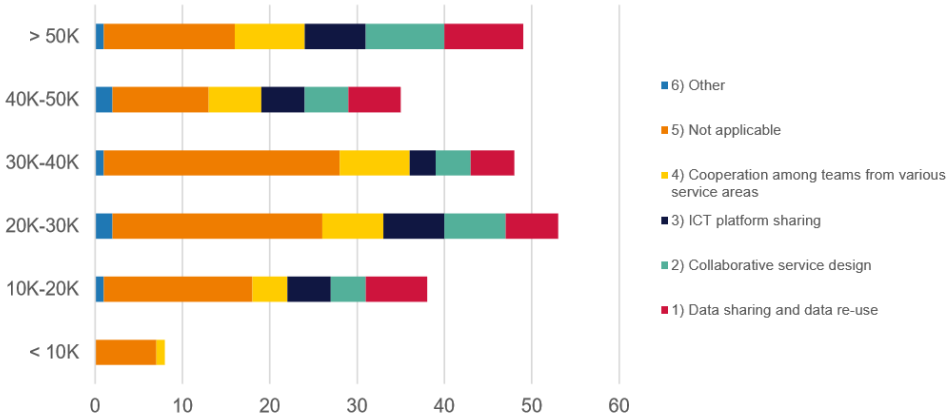
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



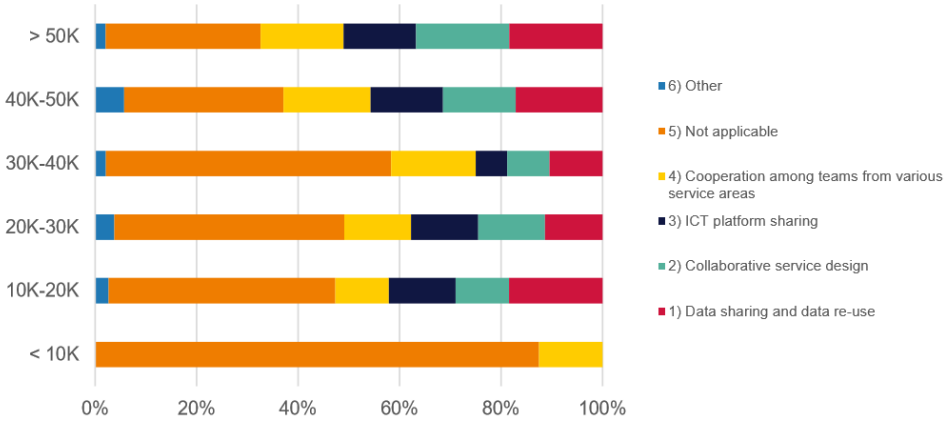
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



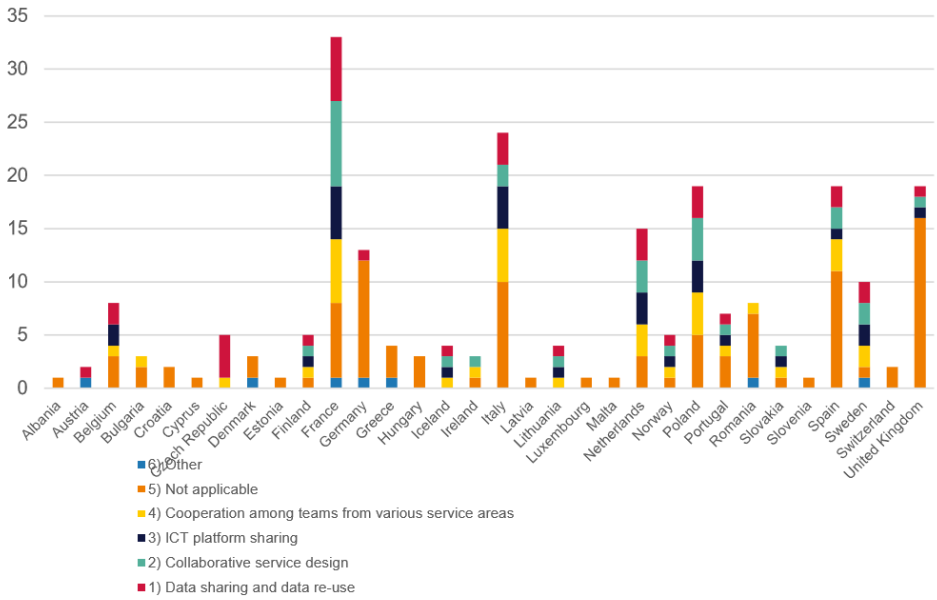
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



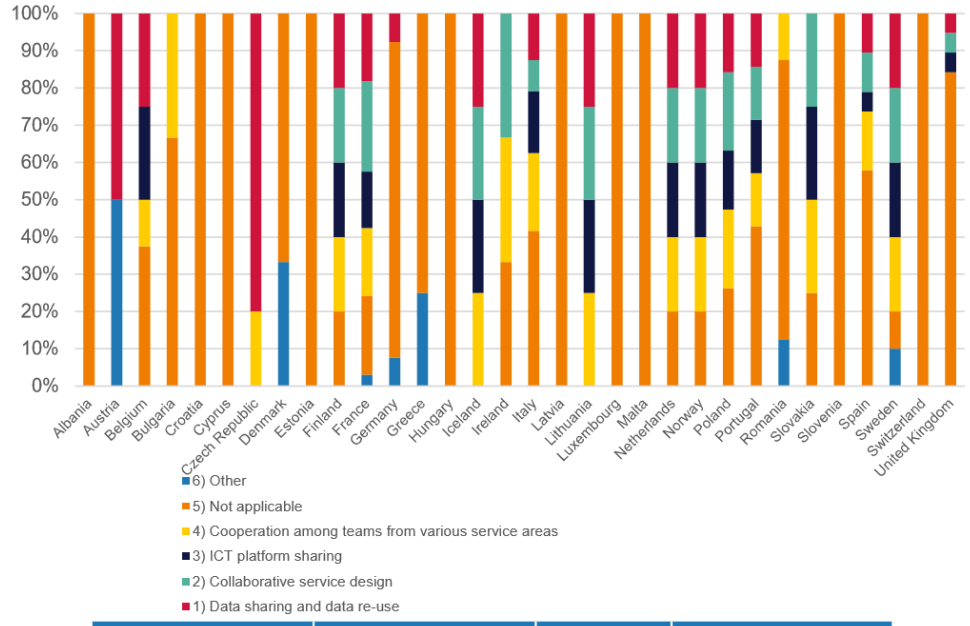
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

4.8 If applicable, does your public authority provide incentives (e.g. monetary, internal competitions / awards, etc) encouraging cooperation across service areas:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.23 Q_5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

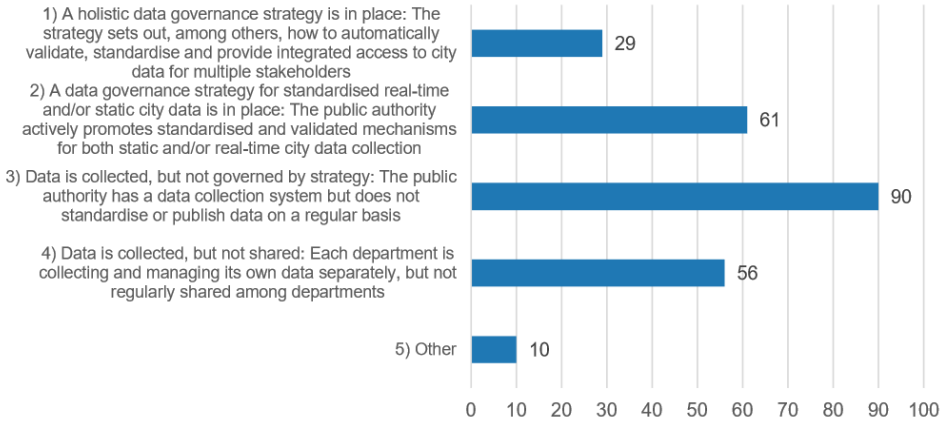
ALL RESPONDENTS

Question typology: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders	29	12%
2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection	61	25%
3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis	90	37%
4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments	56	23%
5) Other	10	4%

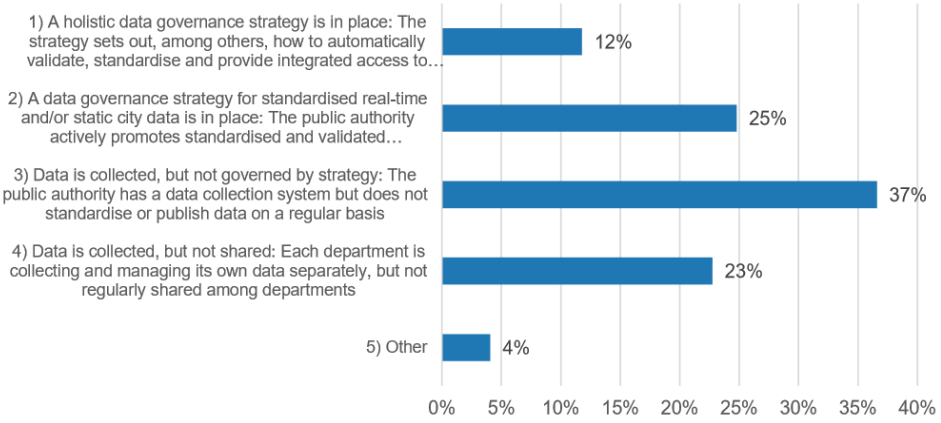
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



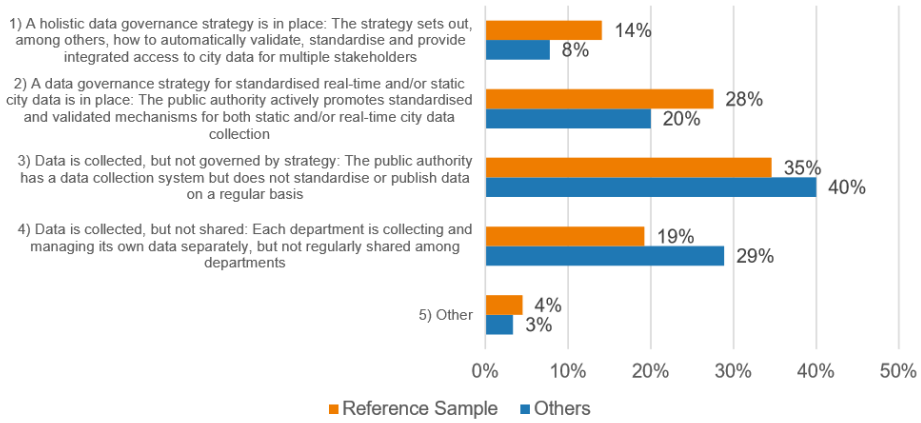
Question typology	Data	Cluster	Value
Single choice	All Respondents	-	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



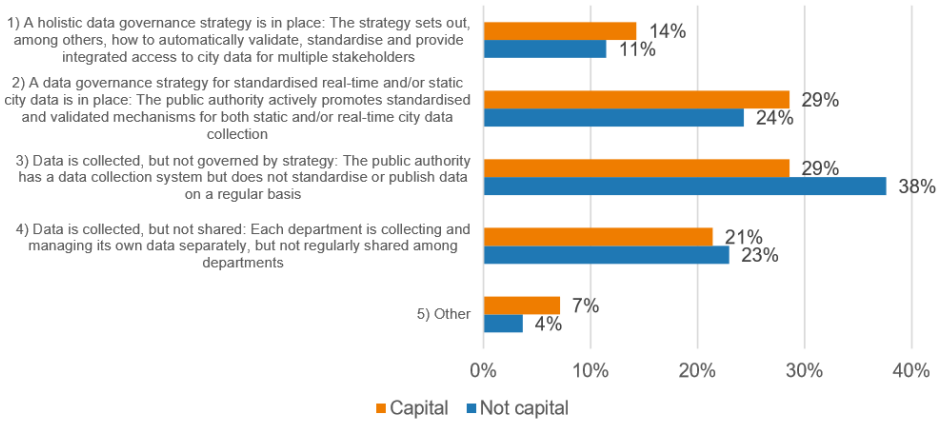
Question typology	Data	Cluster	Value
Single choice	All Respondents	-	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



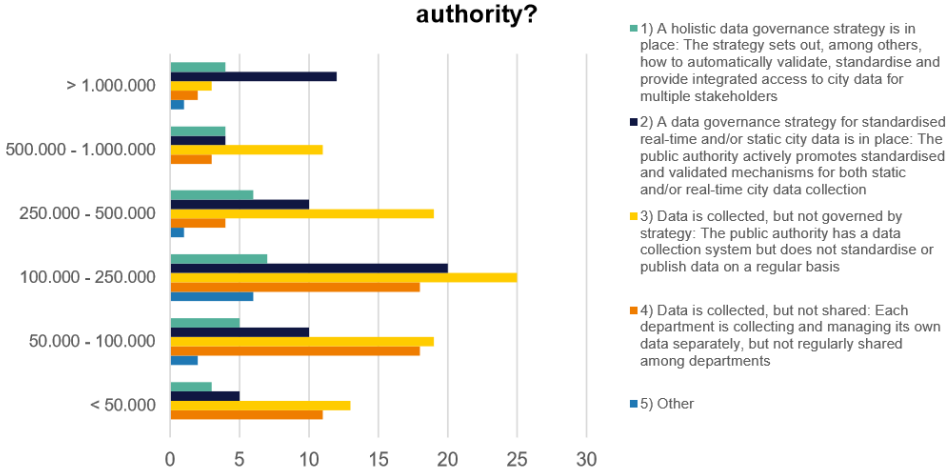
Question typology	Data	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



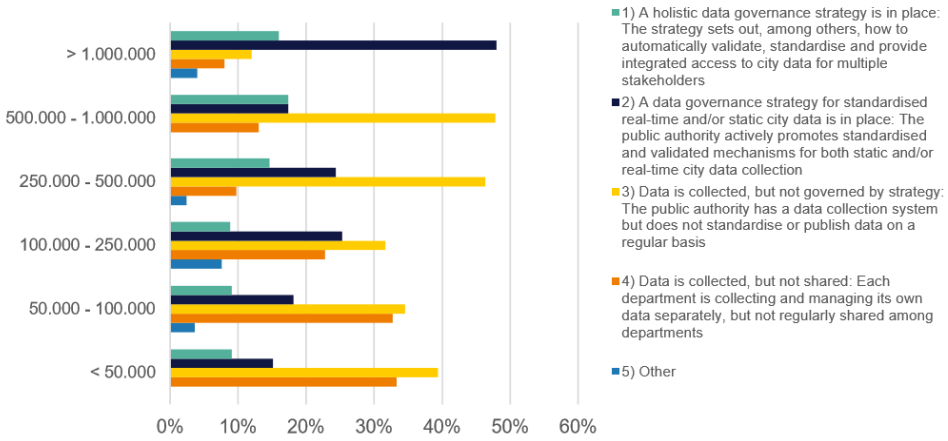
Question typology	Data	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



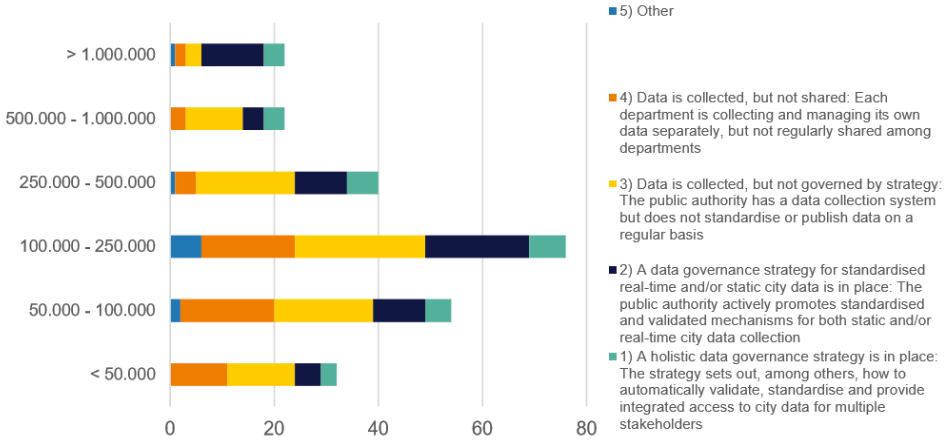
Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Percentage

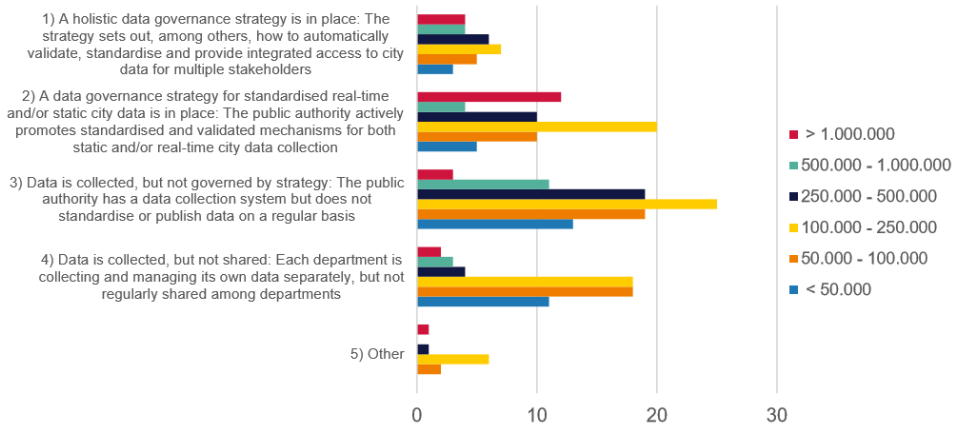
5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Count

Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

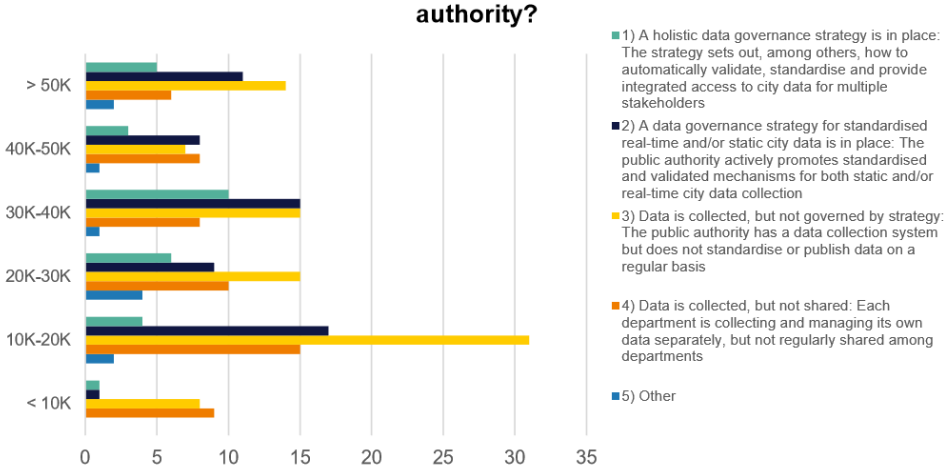


Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

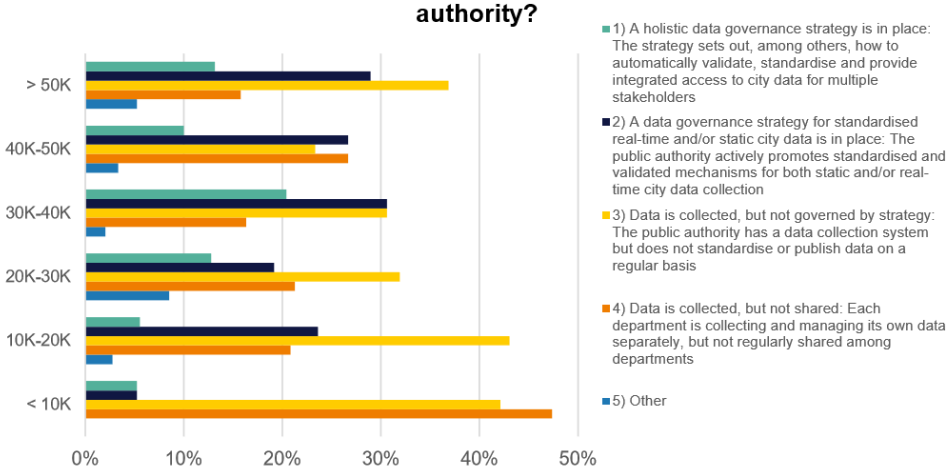
Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



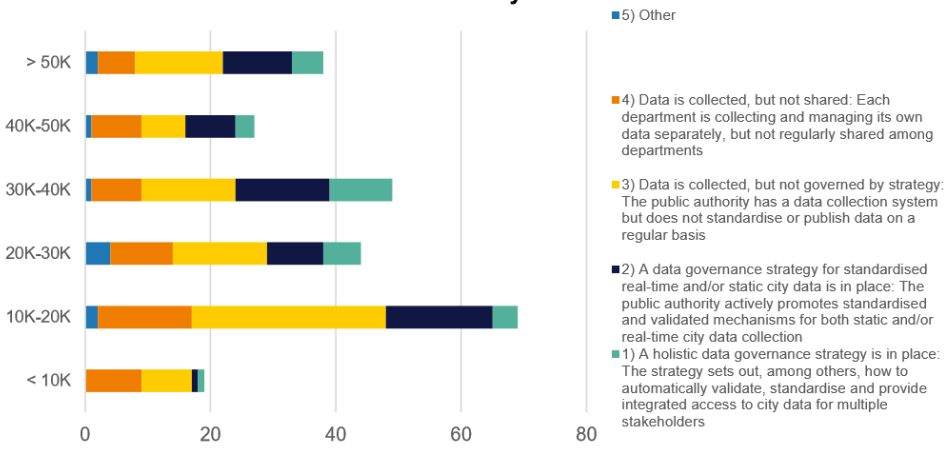
Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

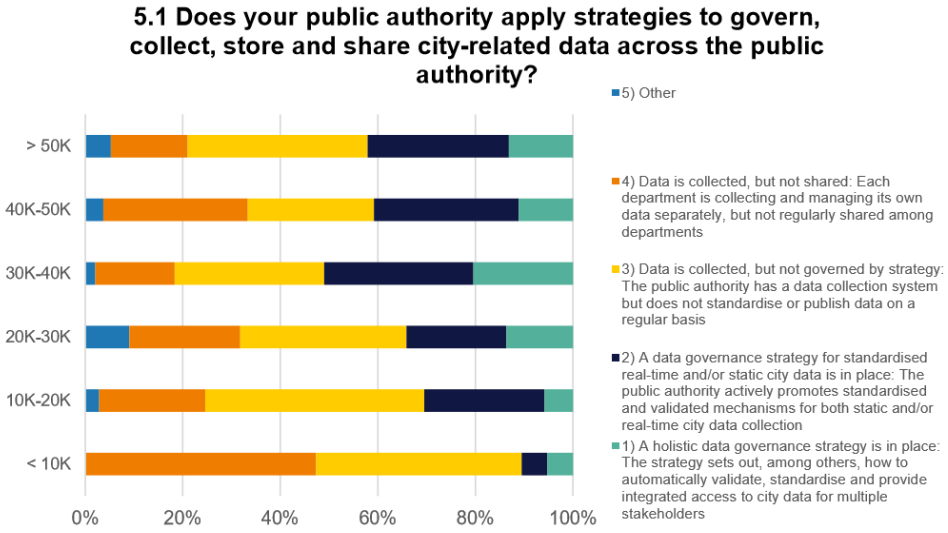


Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

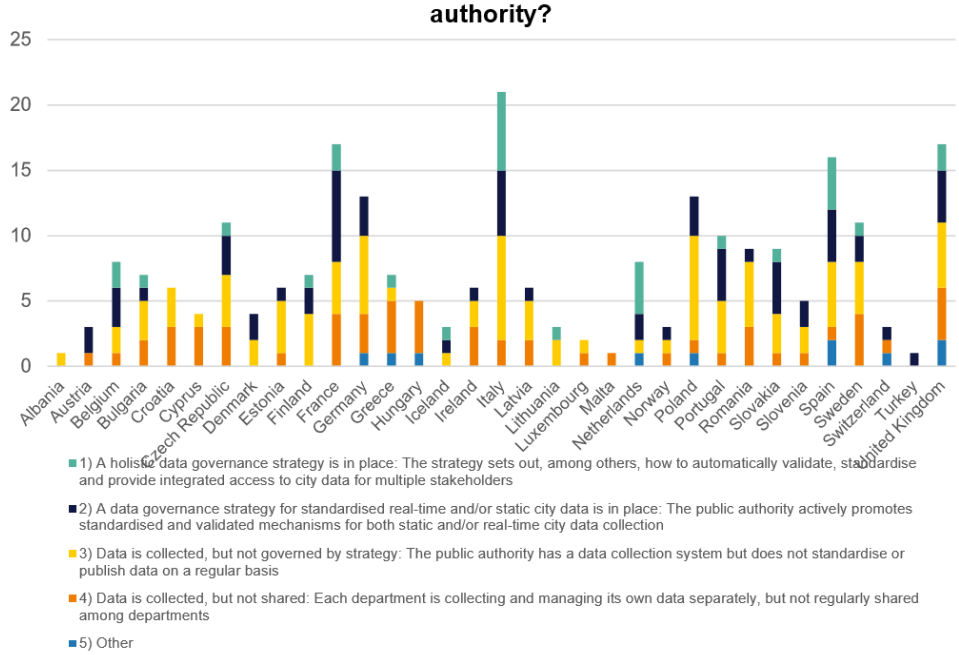


Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Count



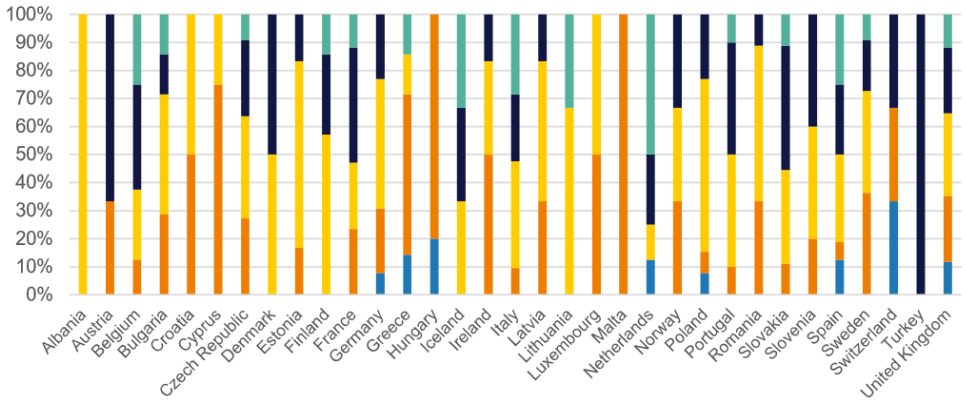
Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



- 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- 5) Other

Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

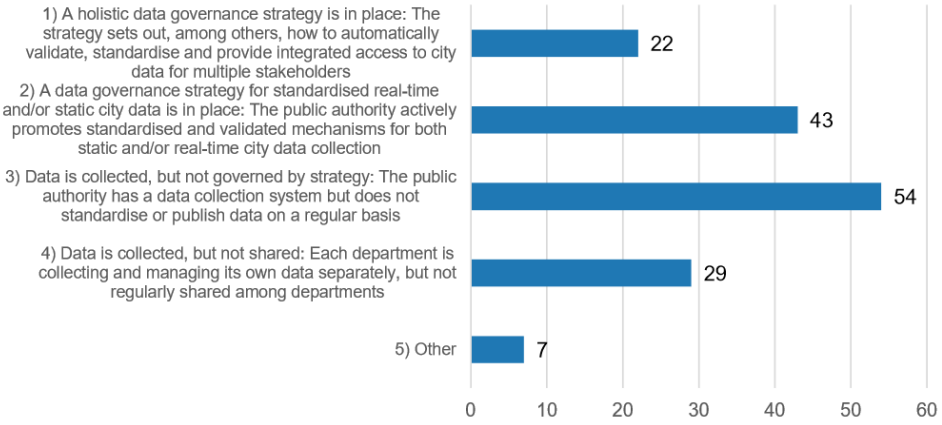
REFERENCE SAMPLE

Question typology: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders	22	14%
2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection	43	28%
3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis	54	35%
4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments	29	19%
5) Other	7	5%

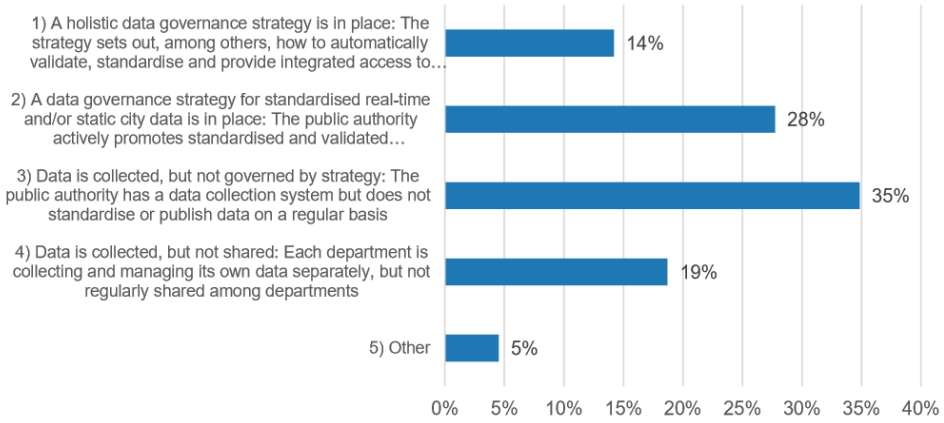
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



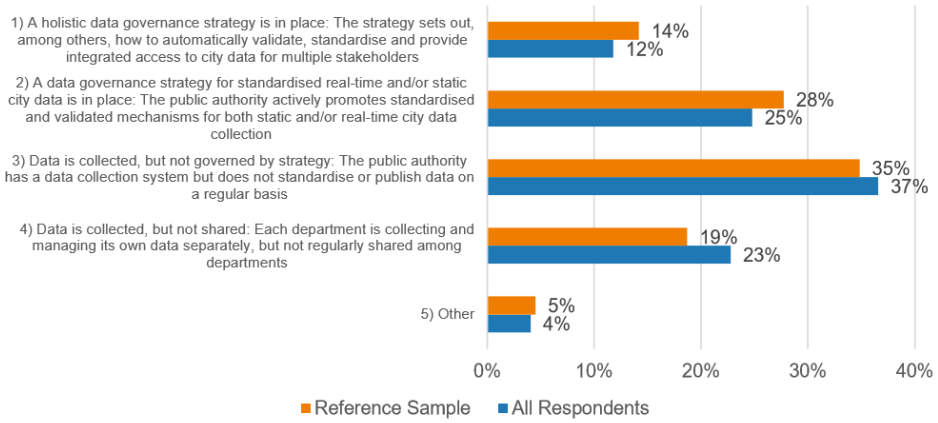
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



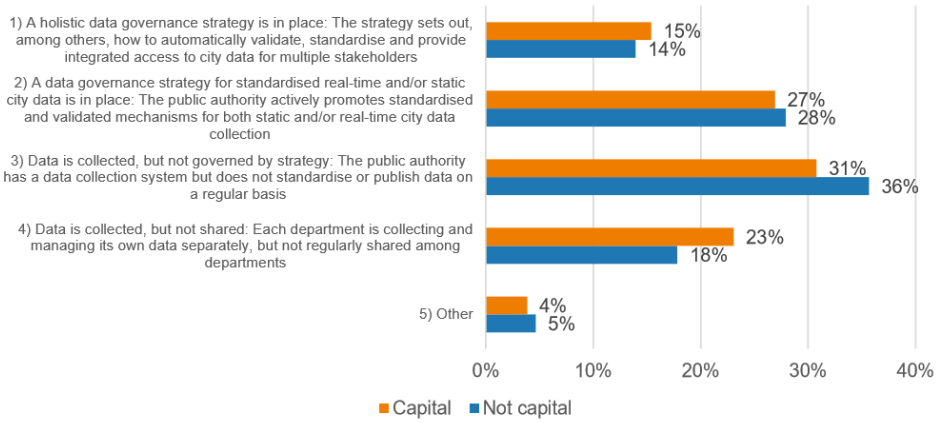
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

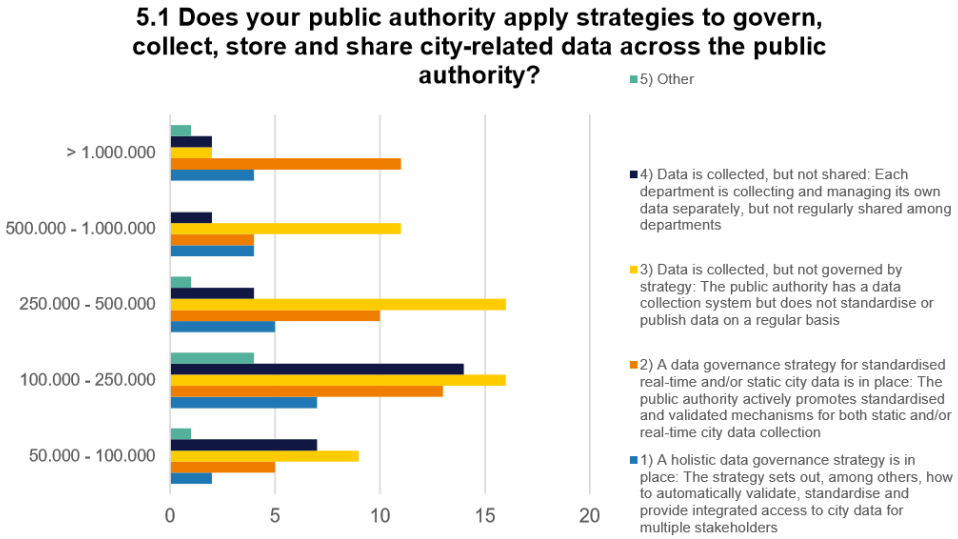


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

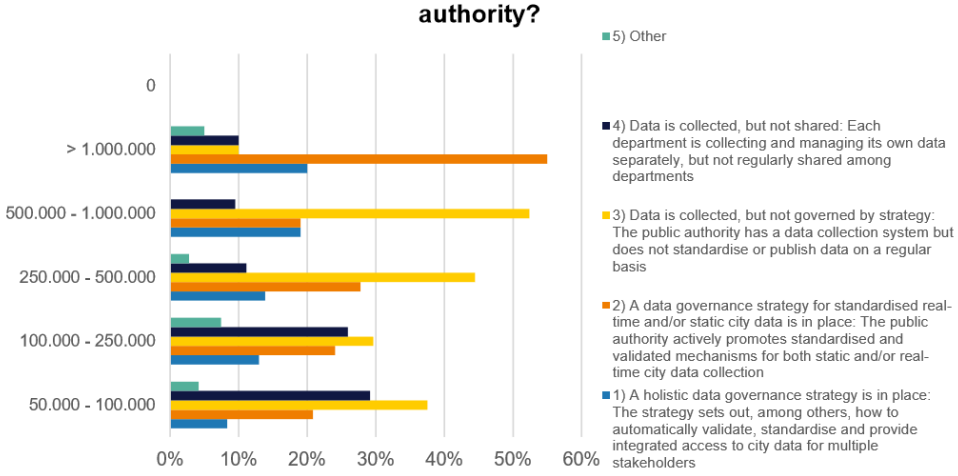


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

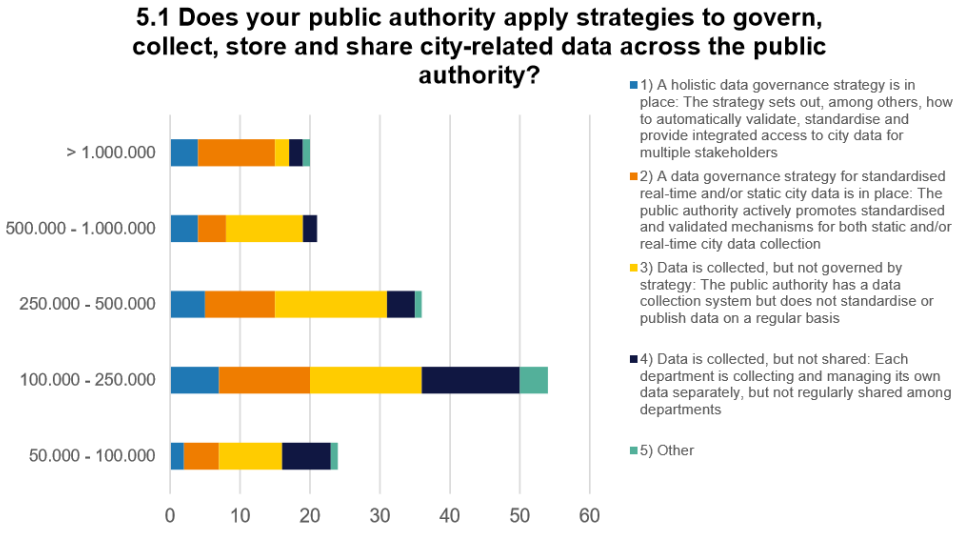


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

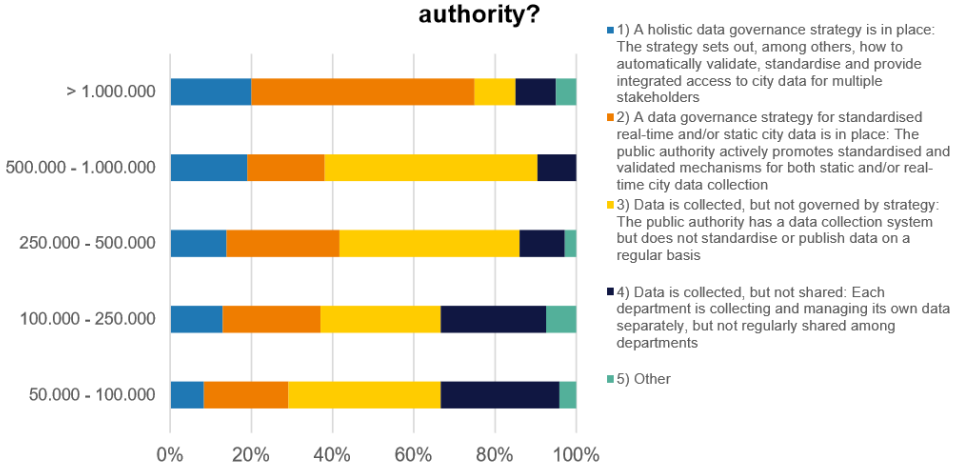


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage



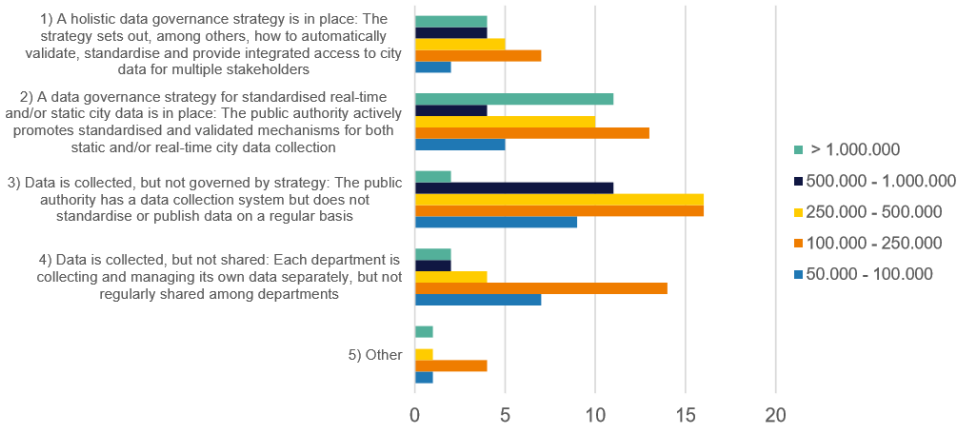
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



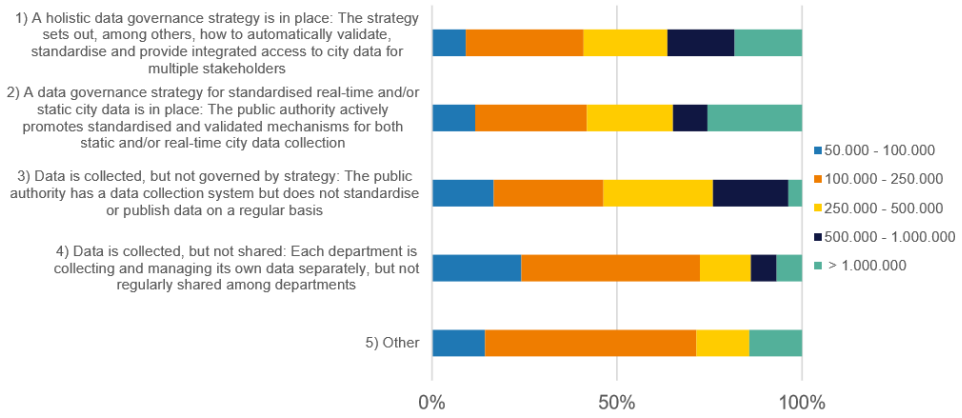
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

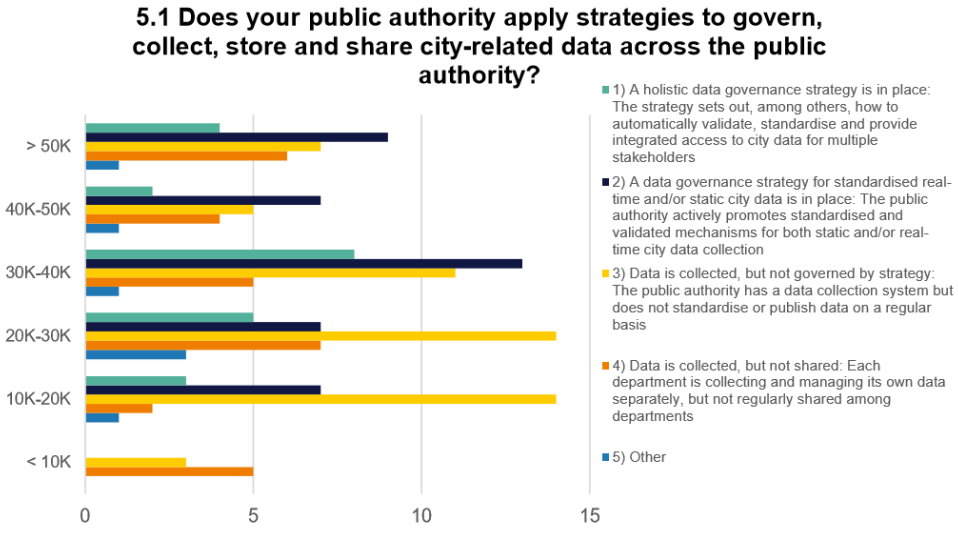


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

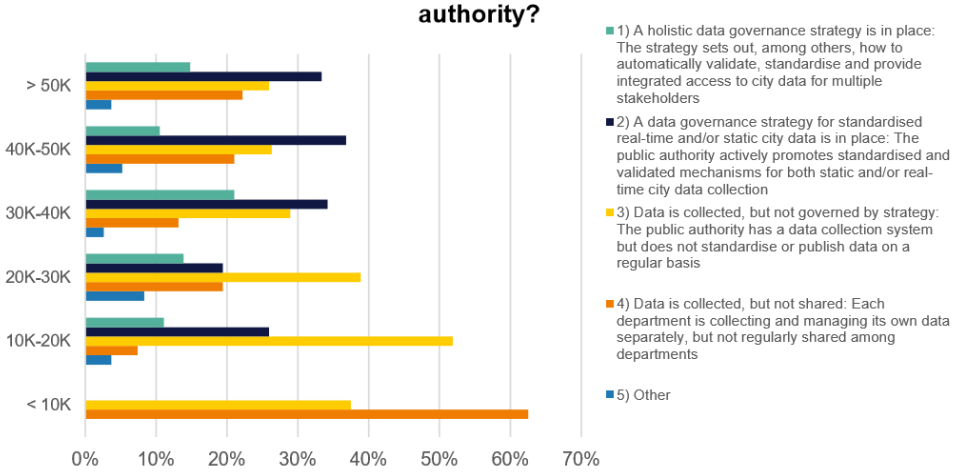


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage

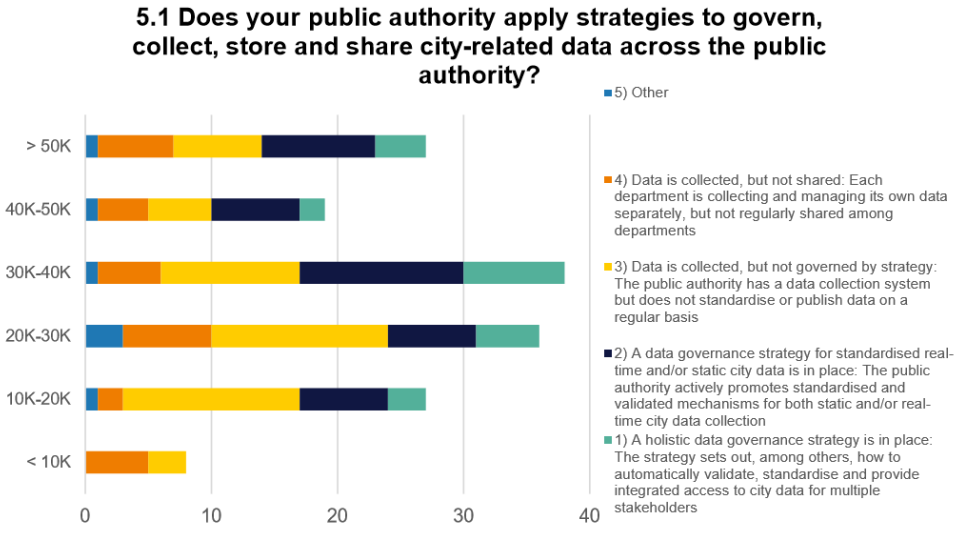


Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?

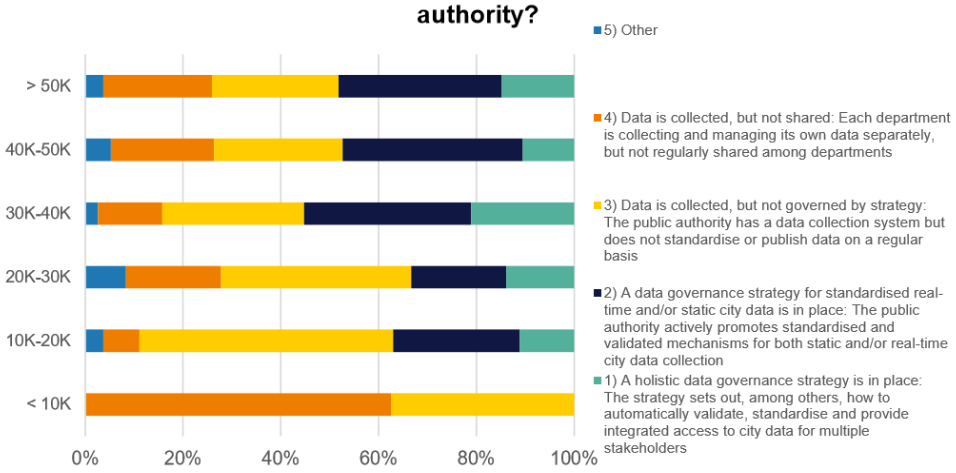


Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



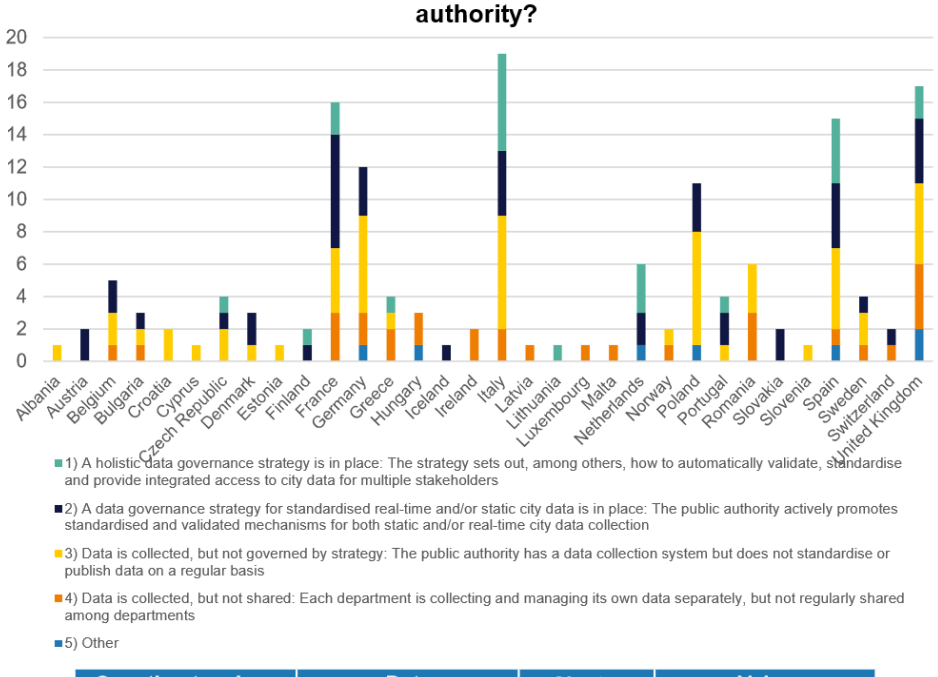
Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



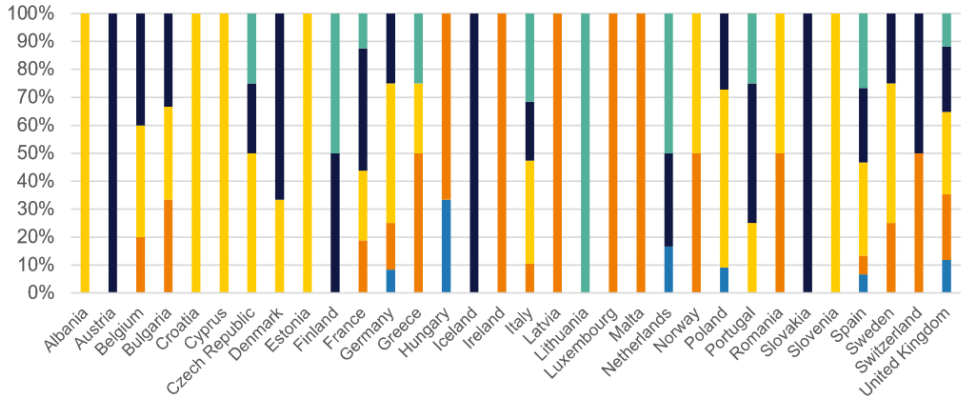
Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Count

5.1 Does your public authority apply strategies to govern, collect, store and share city-related data across the public authority?



- 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- 5) Other

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.24 Q_5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?

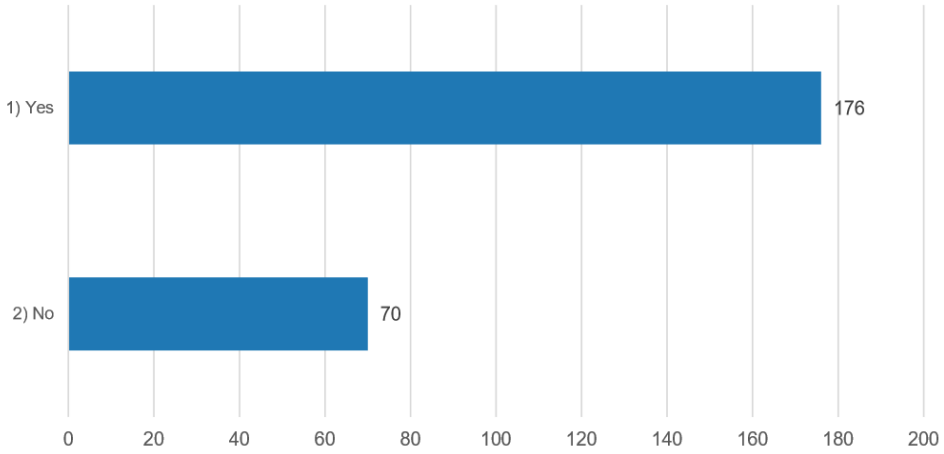
ALL RESPONDENTS

Question type: ***Single choice - Binary***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	176	72%
2) No	70	28%

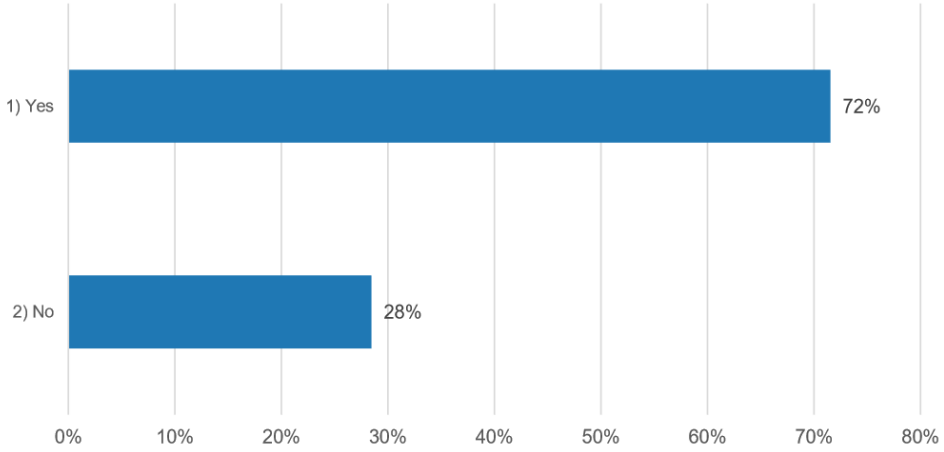
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?



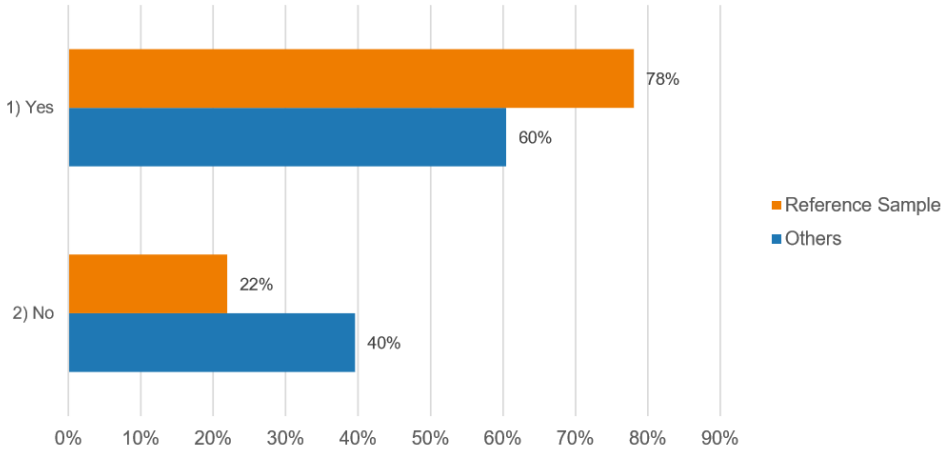
Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Count

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?



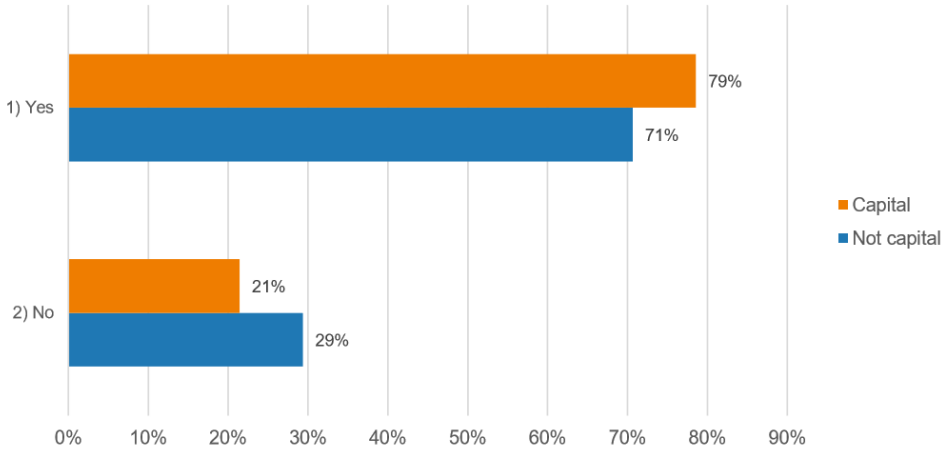
Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Percentage

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Reference Sample	Percentage

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Capital cities	Percentage

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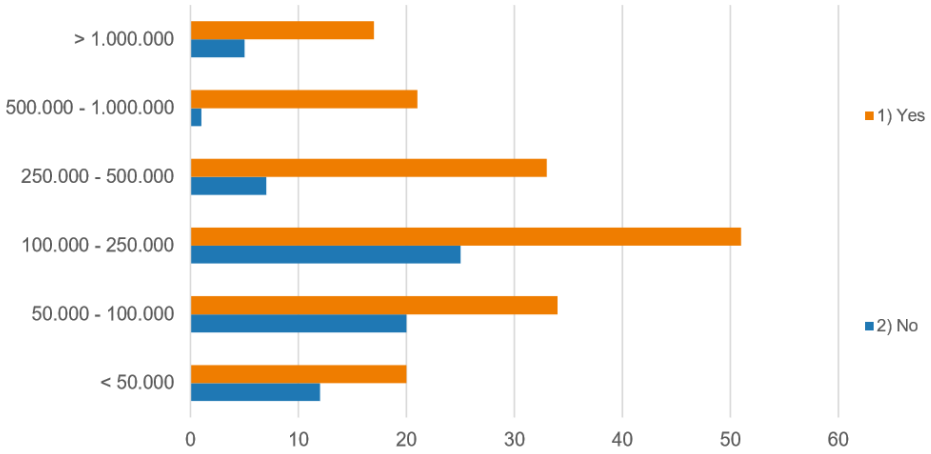

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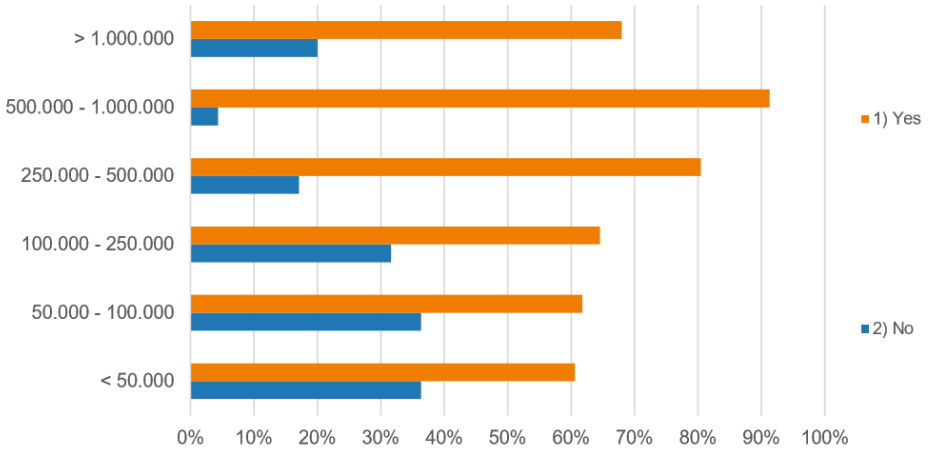

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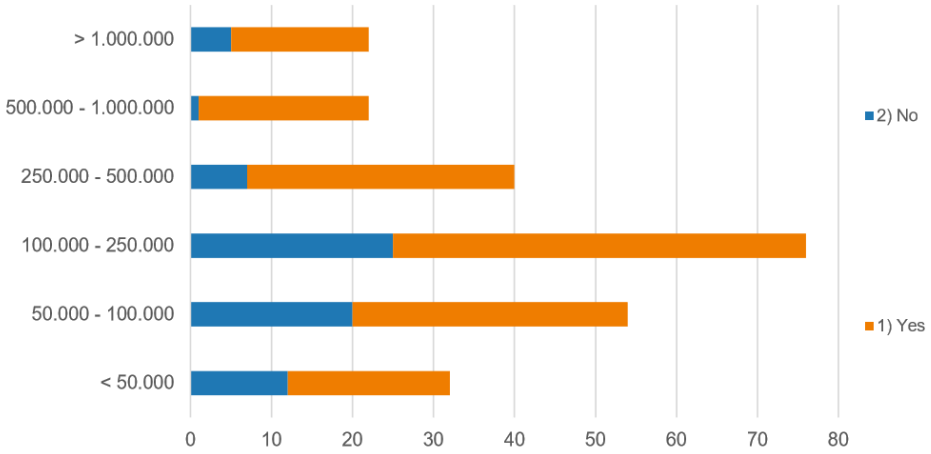

Question type	Data sample	Cluster	Value
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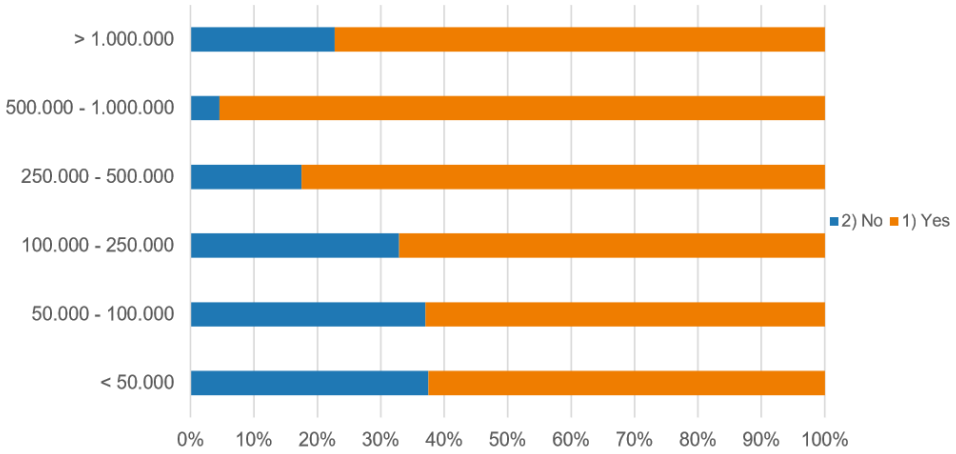

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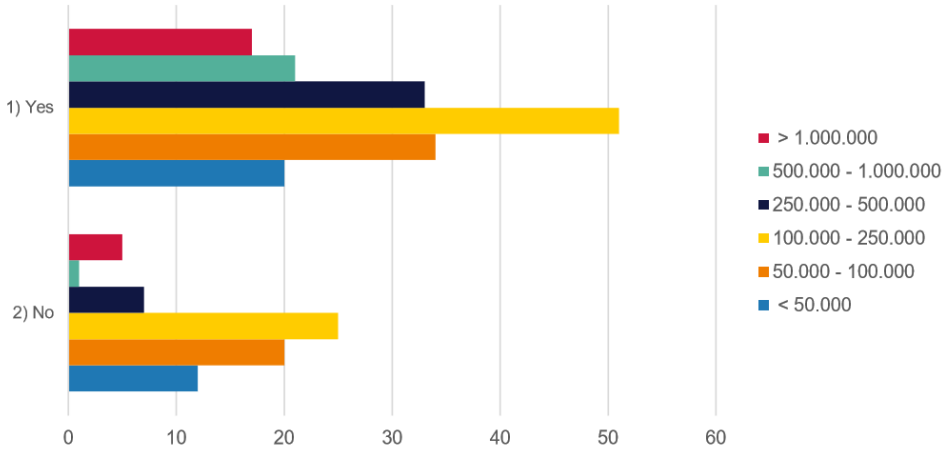

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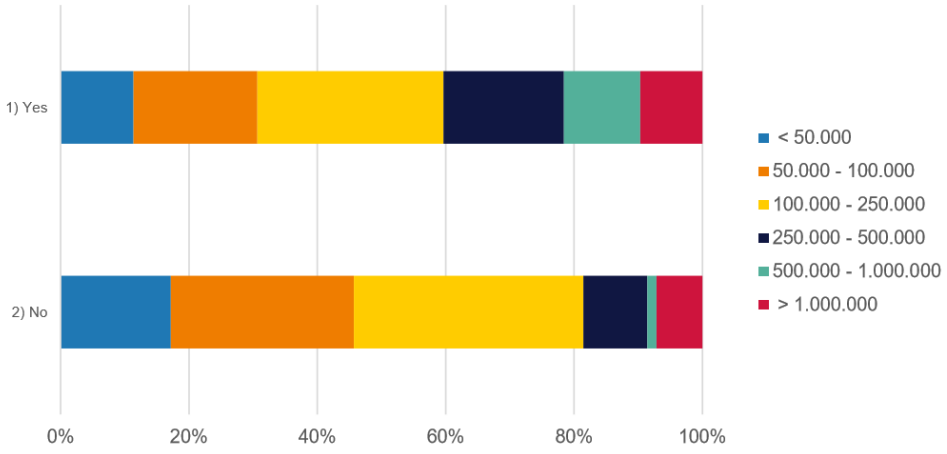

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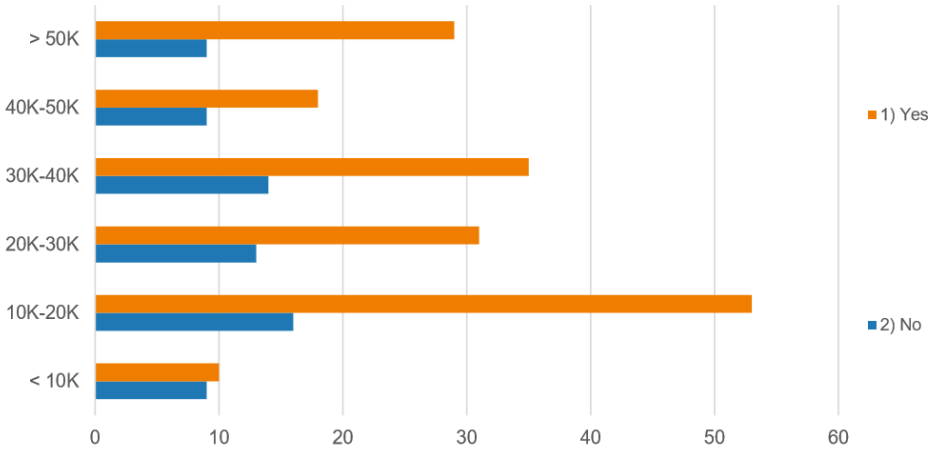

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Count

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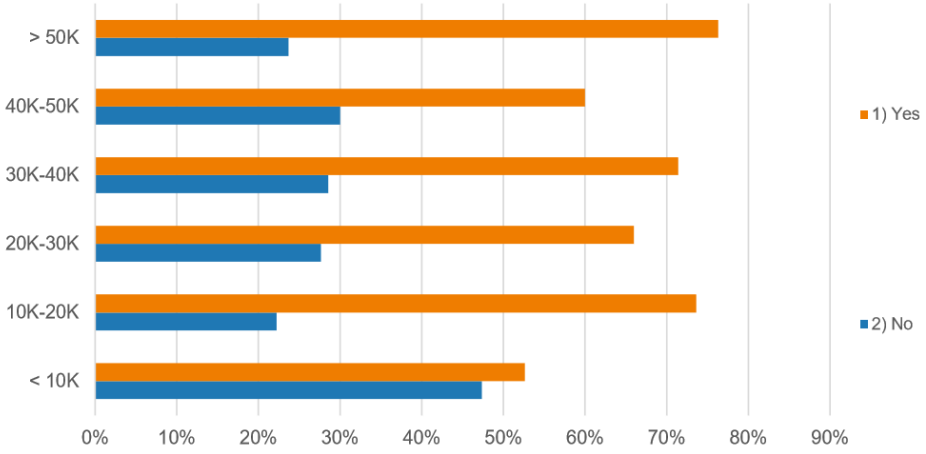

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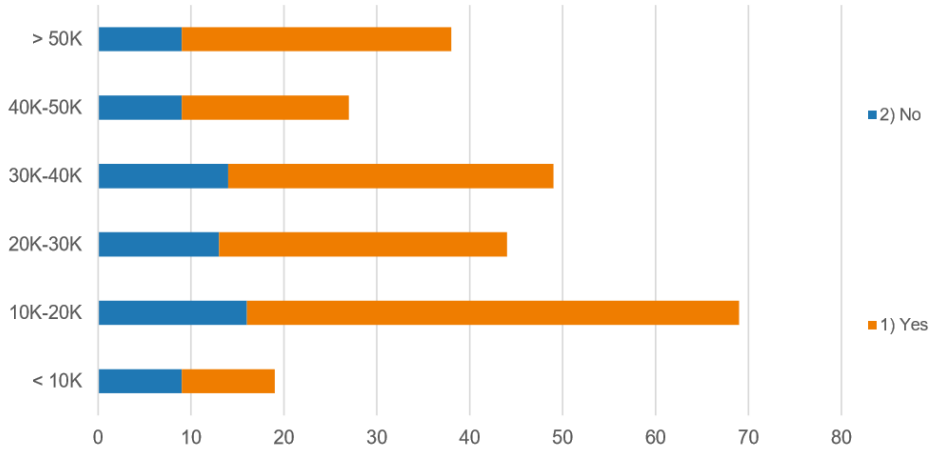

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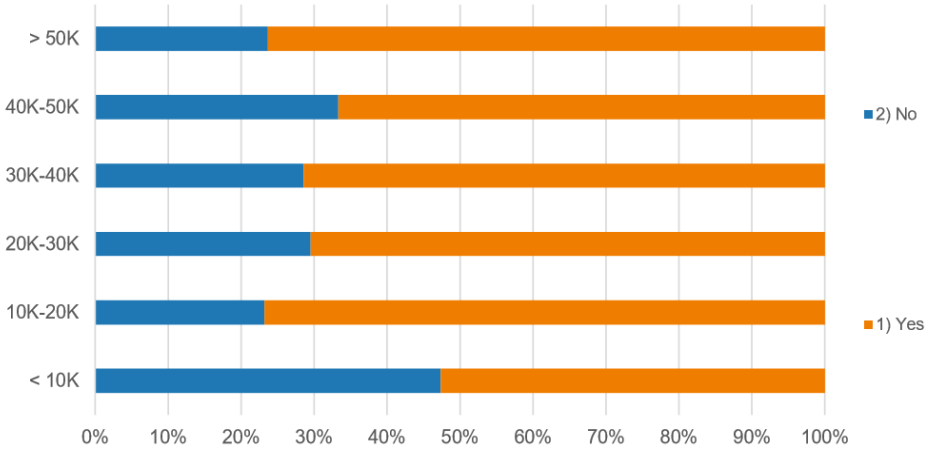

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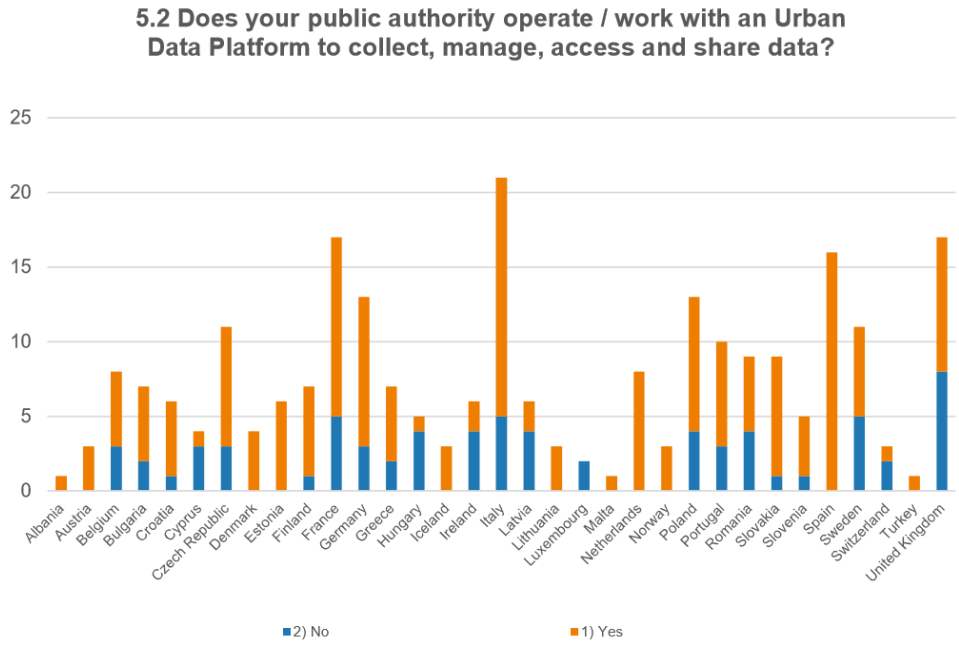

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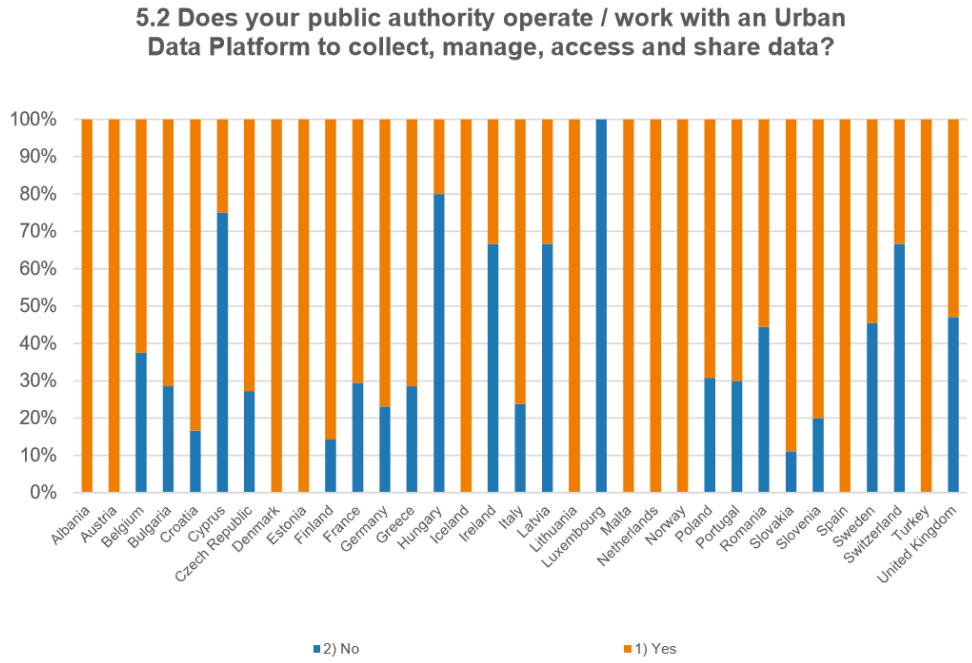


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Percentage

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?

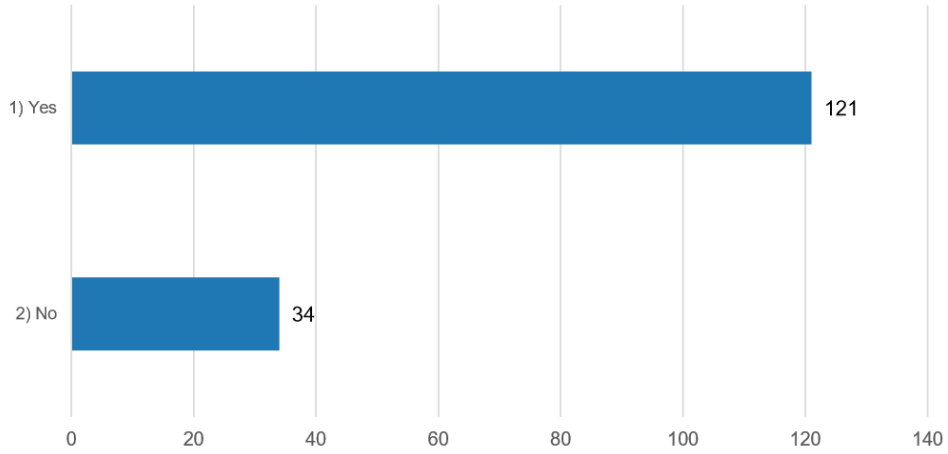
REFERENCE SAMPLE

Question type:	***Single choice - Binary***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	121	78%
2) No	34	22%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?



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Single choice - Binary	Reference Sample	-	Count

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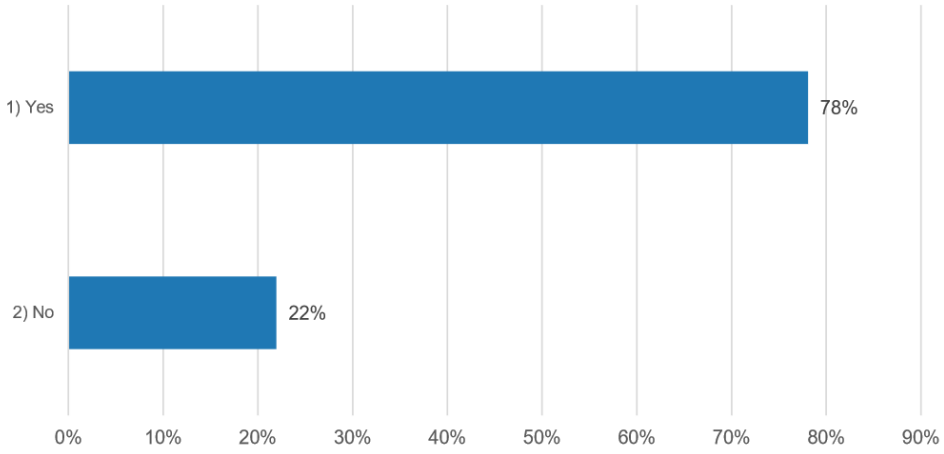

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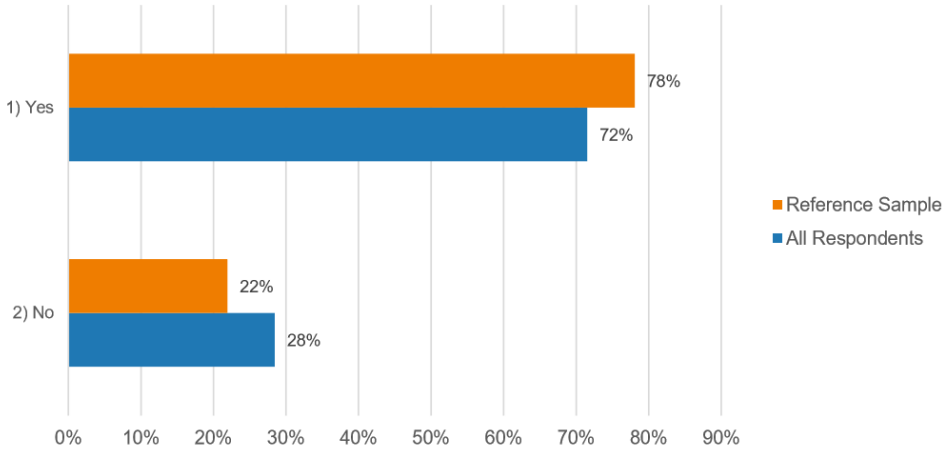

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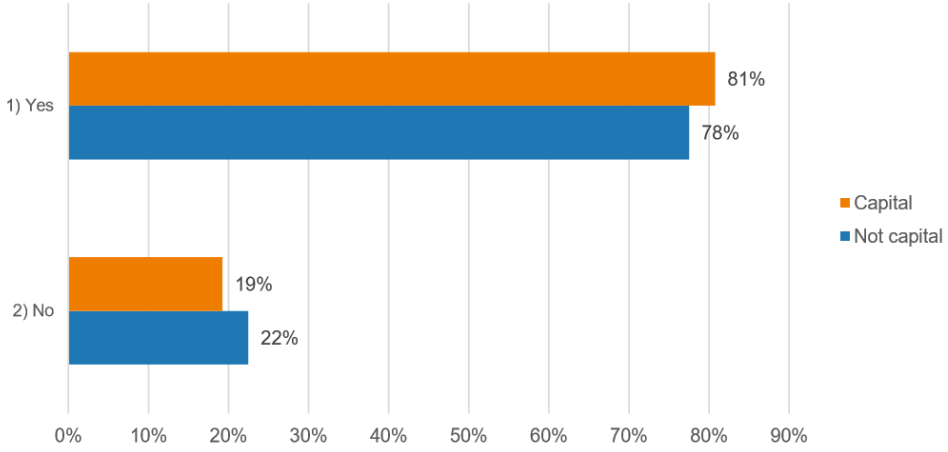

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Single choice - Binary	Reference Sample	Capital cities	Percentage

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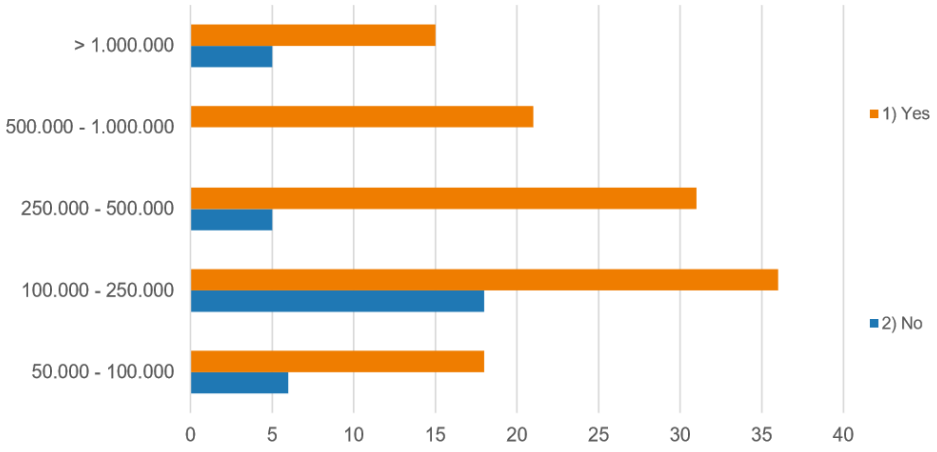

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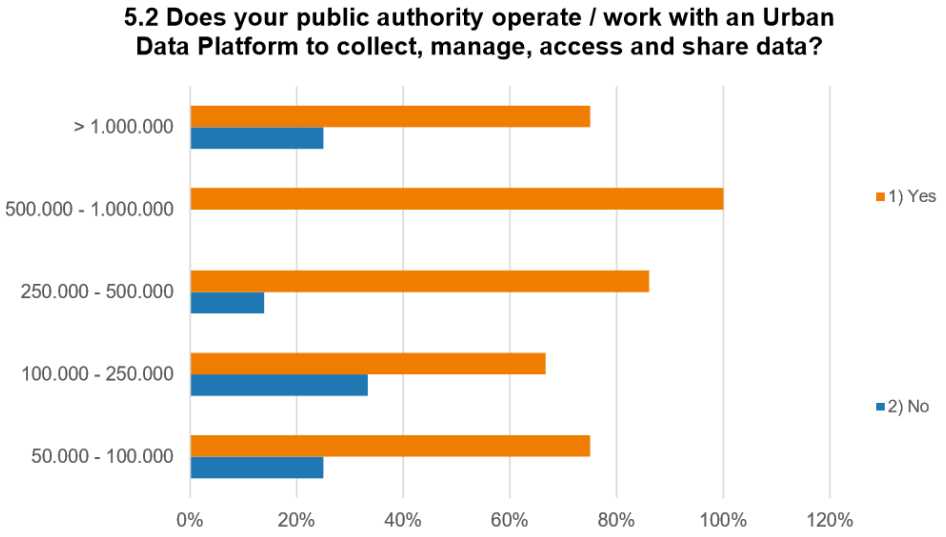

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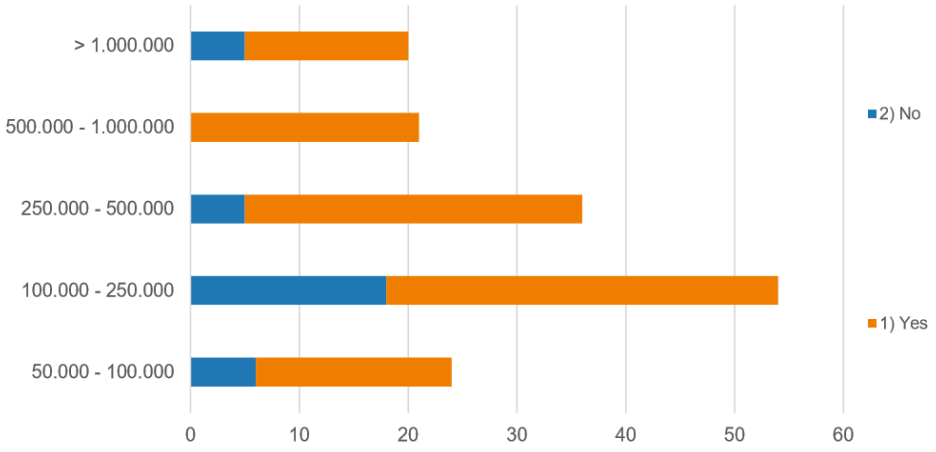

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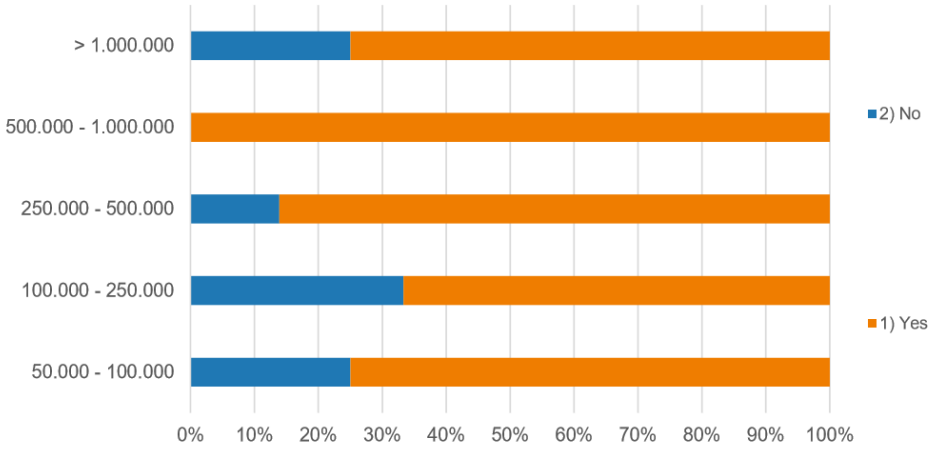

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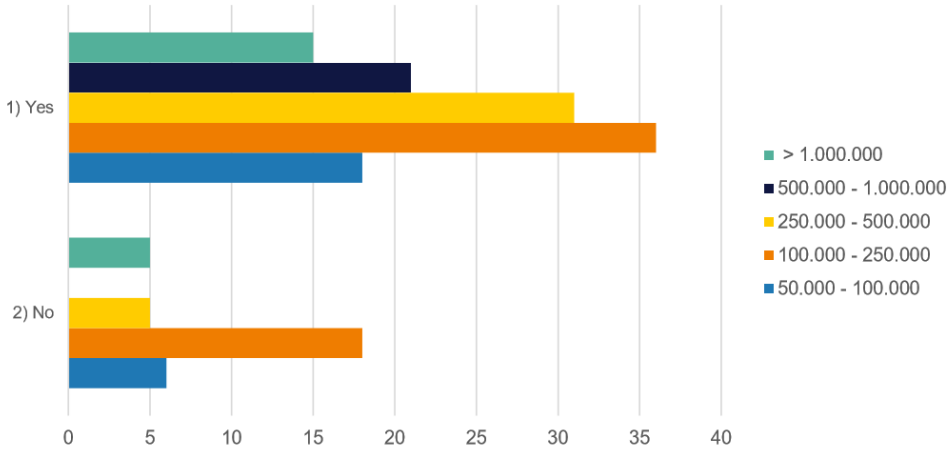

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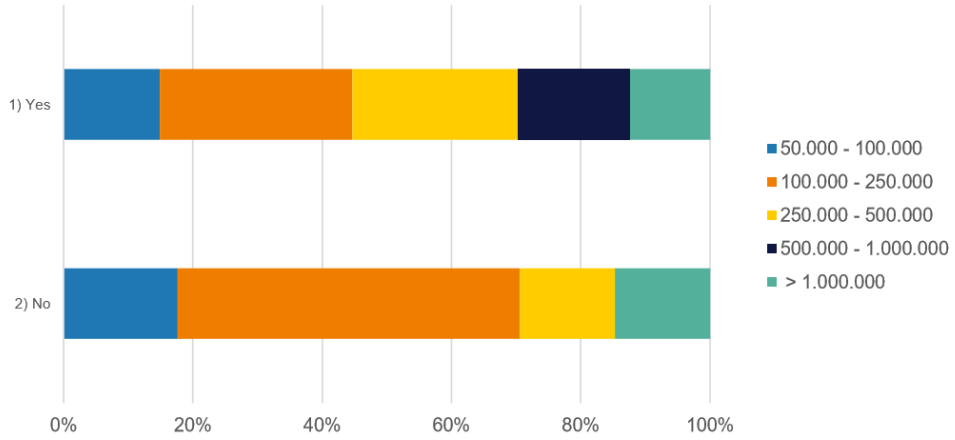

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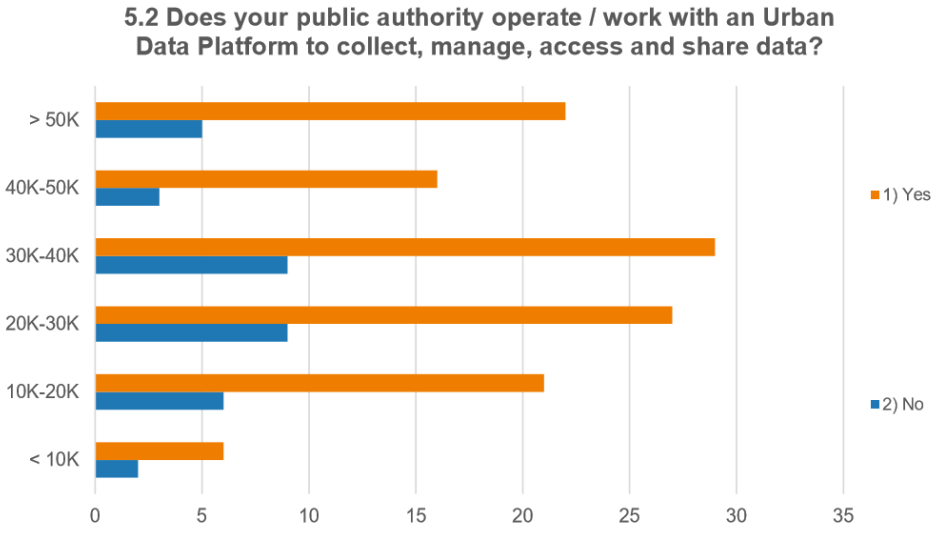

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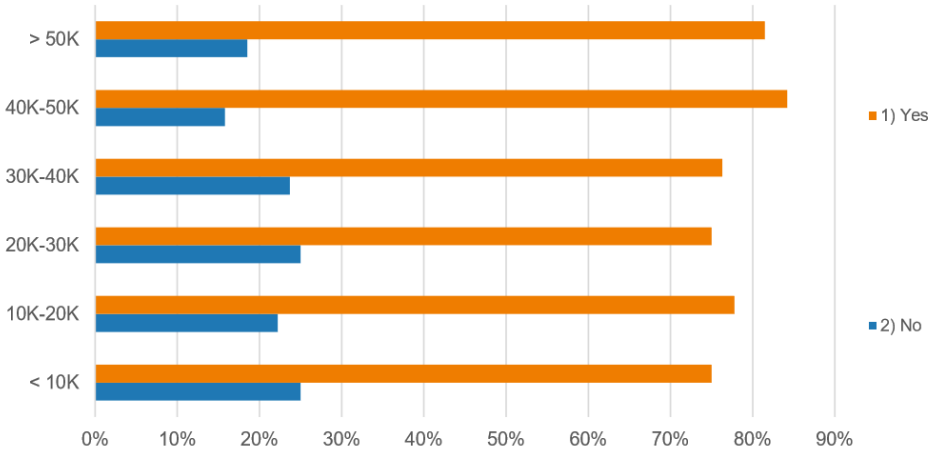

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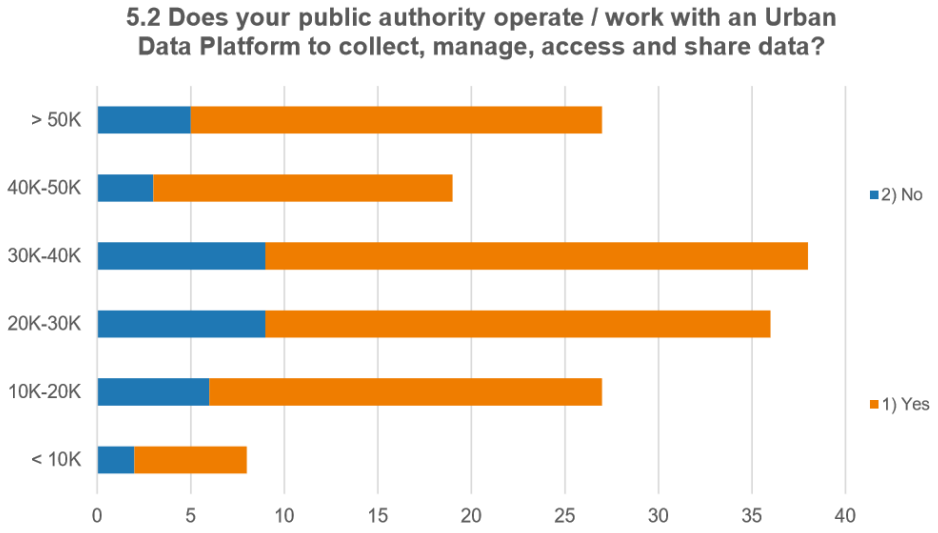

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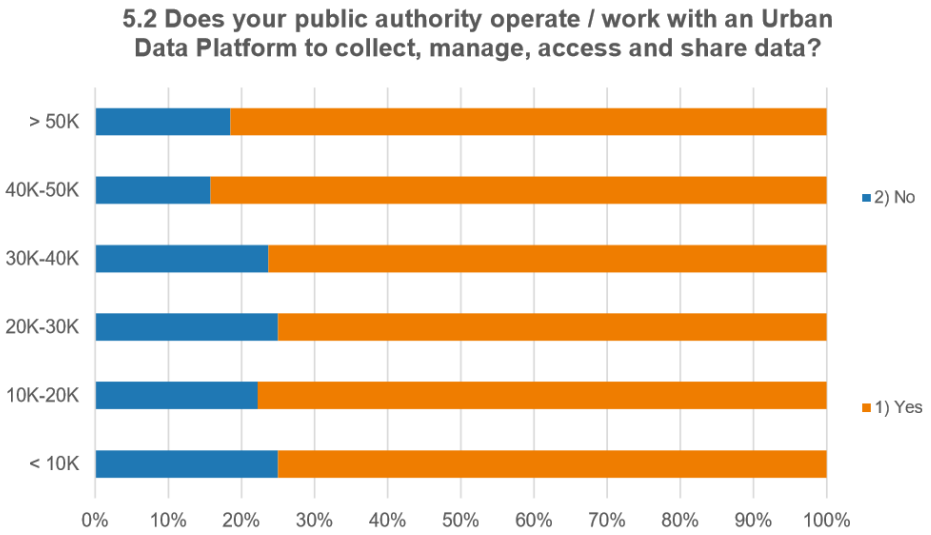

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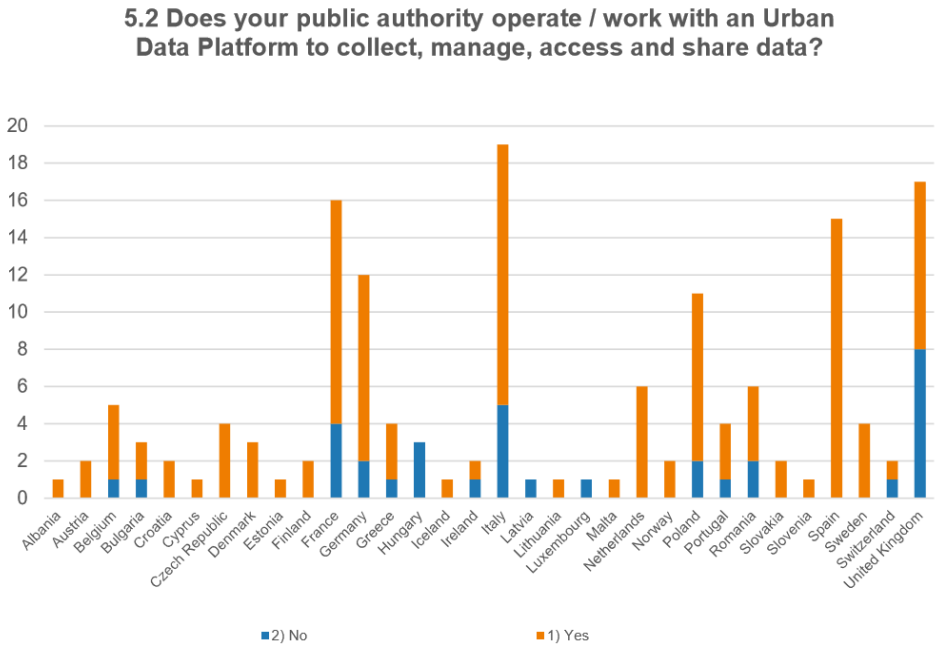

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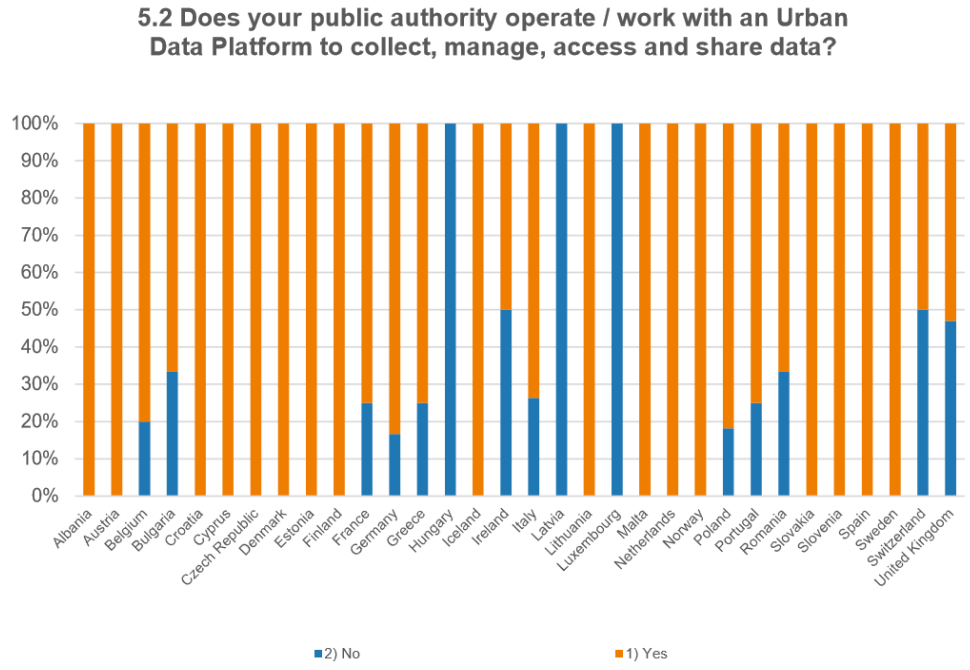

Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Percentage

3.25 Q_5.2.1 What are the characteristics of your Urban Data Platform?

5.2.1 What are the characteristics of your Urban Data Platform?

ALL RESPONDENTS

Question typology:	***Single choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**176 (72%)**

Answer	*Count*	*Percentage**
1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.	61	35%
2) Distributed cloud-based platform: Integrating static and limited real-time data.	27	15%
3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external access	67	38%
4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.	17	10%
5) Other ([ID364])	4	2%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

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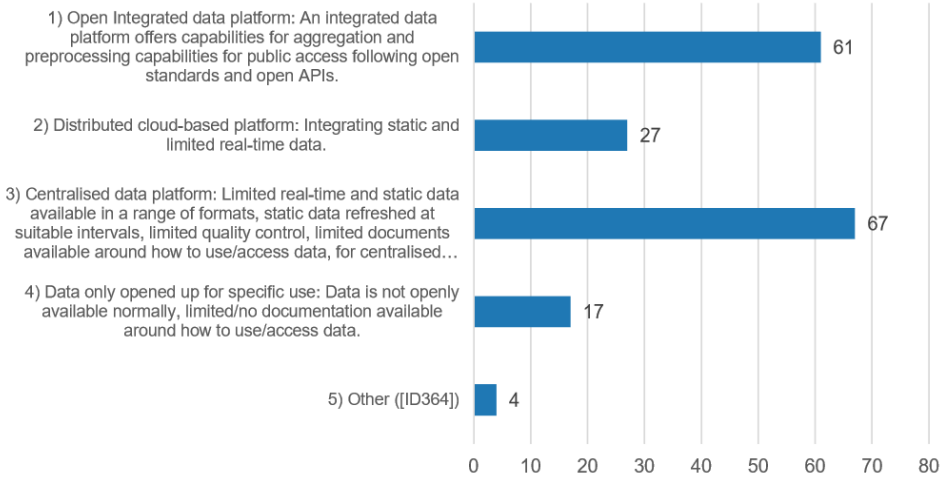

Question typology	Data	Cluster	Value
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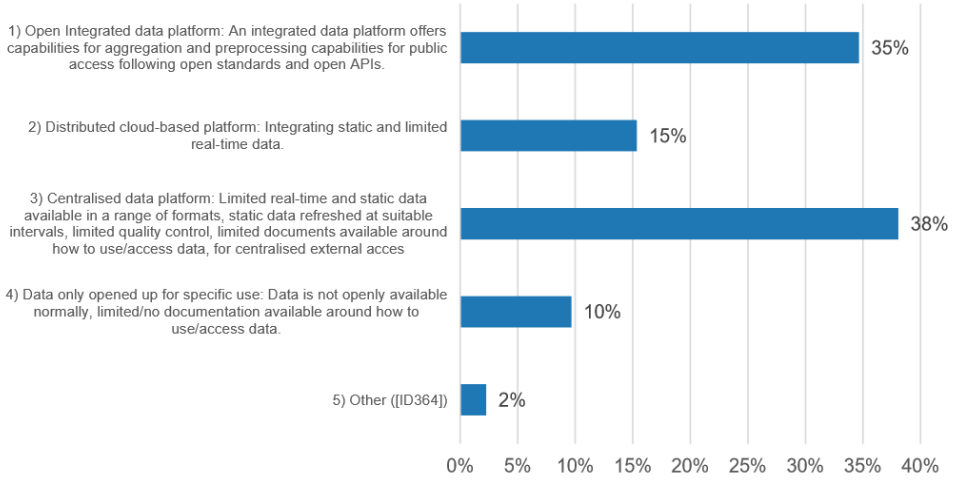

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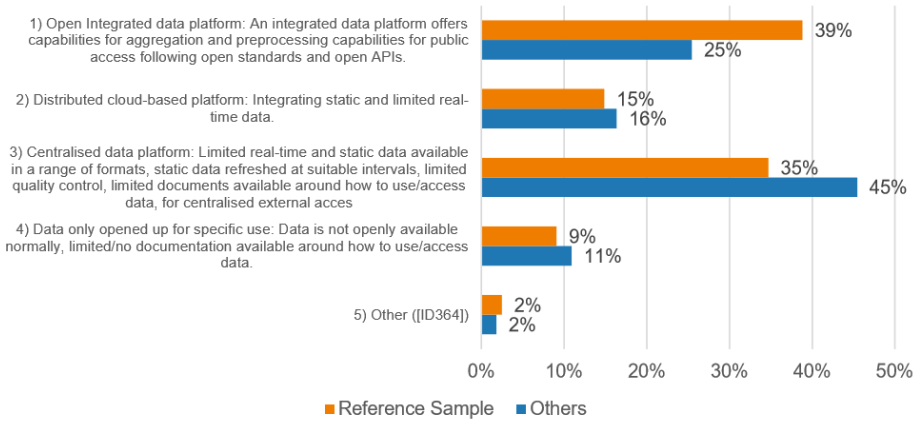

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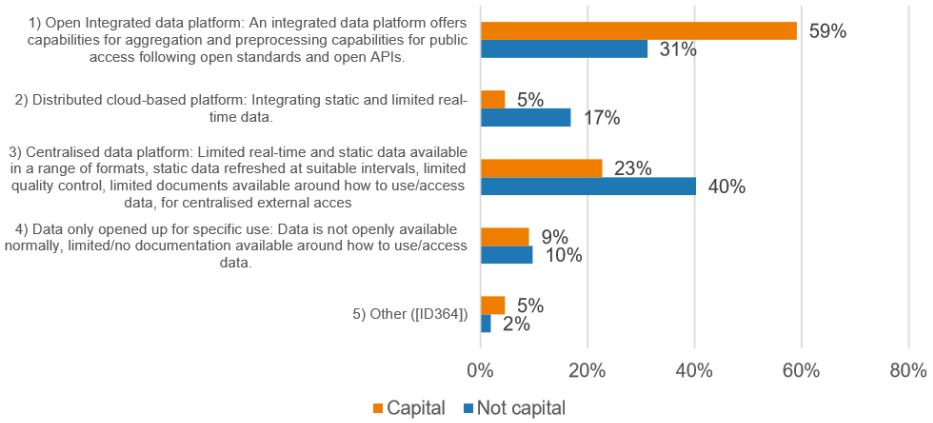

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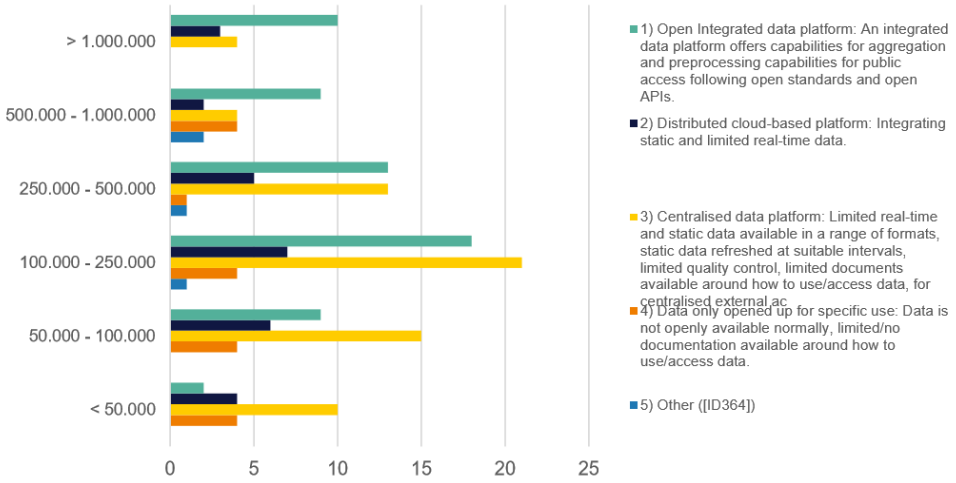

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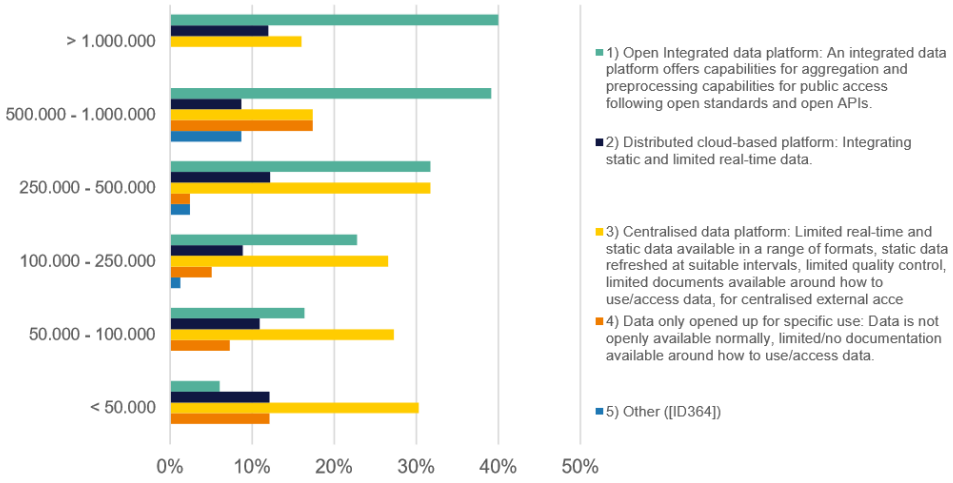

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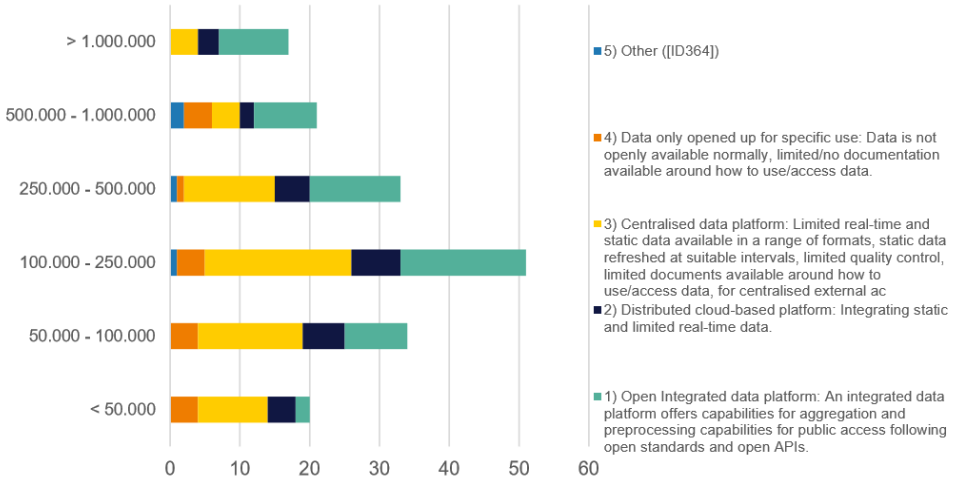

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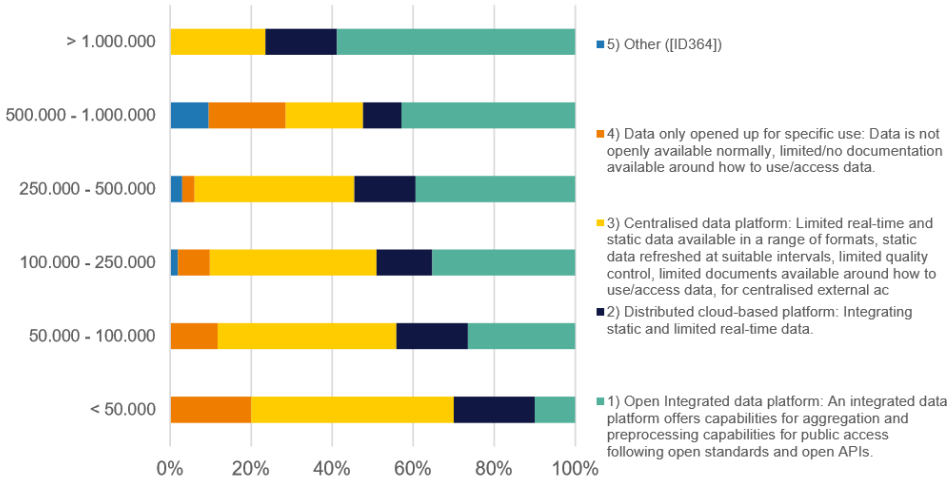

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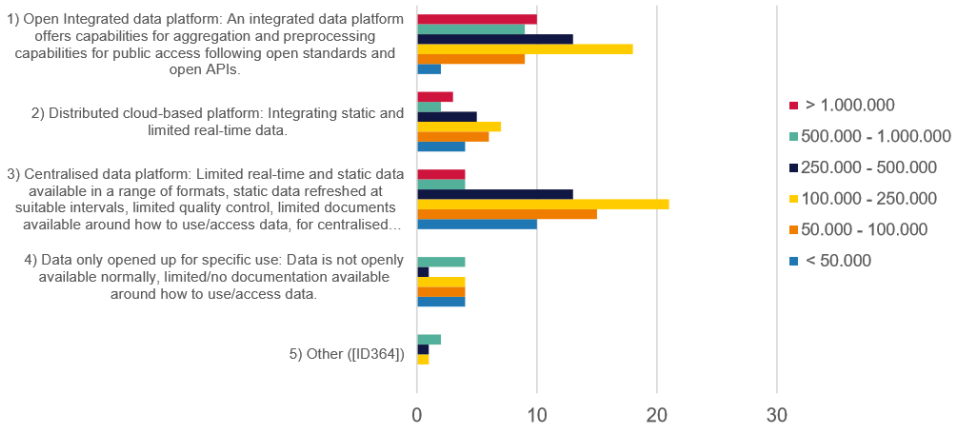

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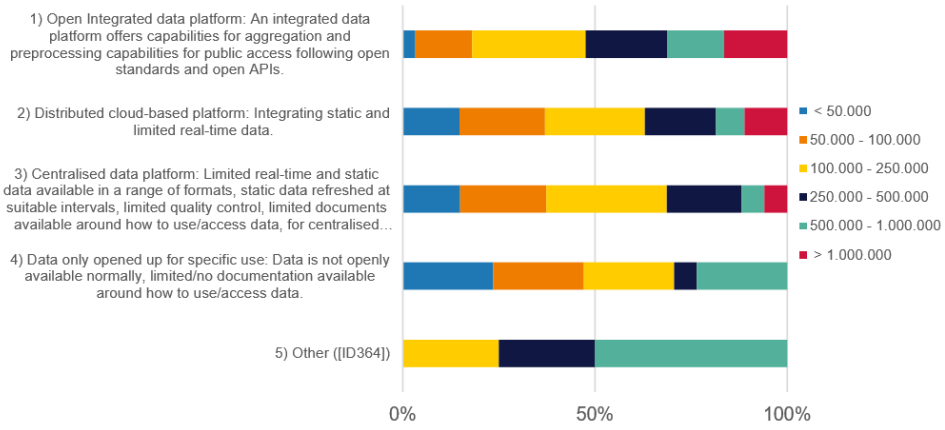

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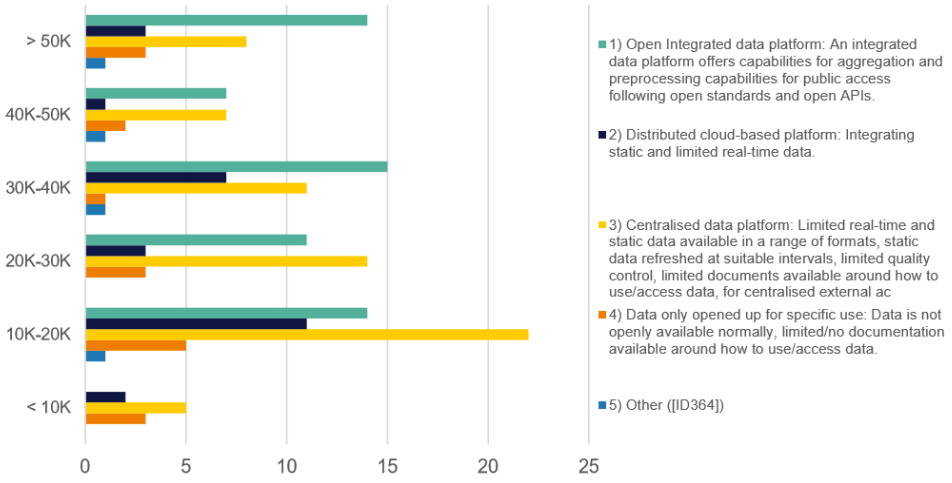

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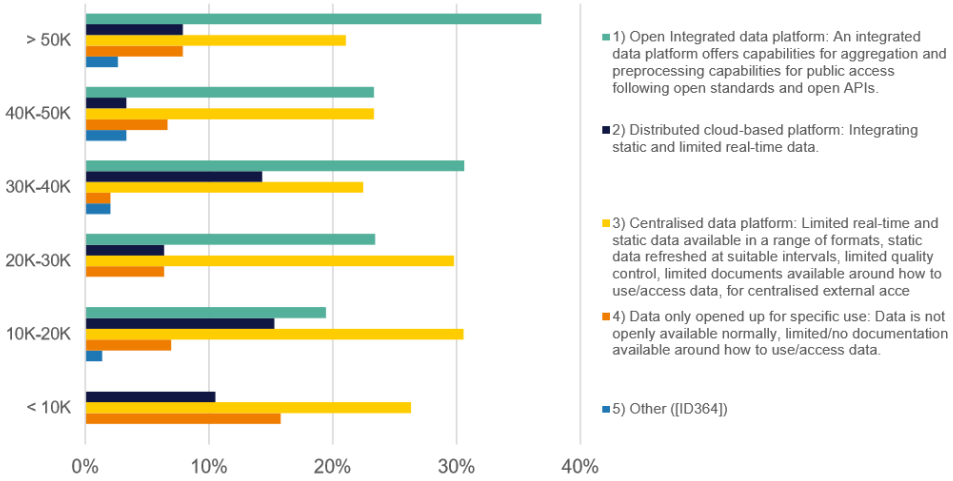

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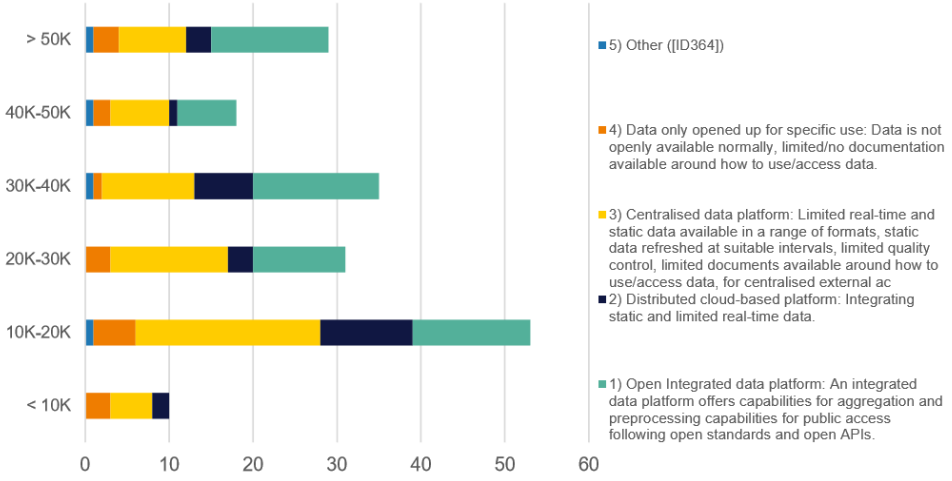

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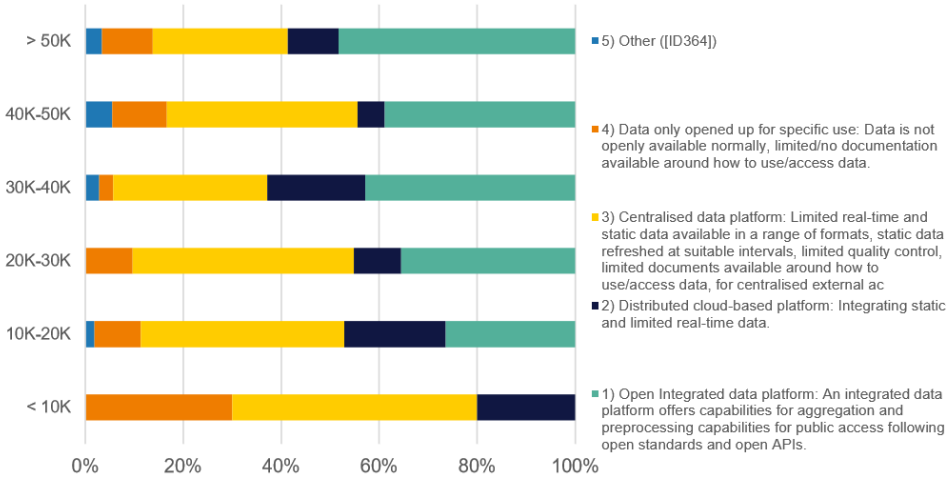
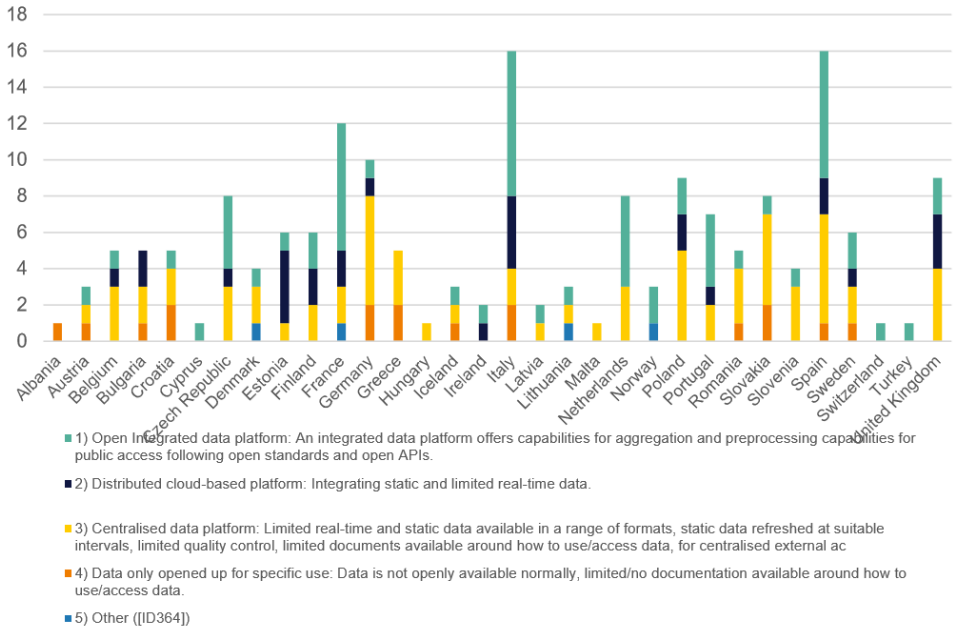
Single choice	All Respondents	GDPPC	Count

5.2.1 What are the characteristics of your Urban Data Platform?



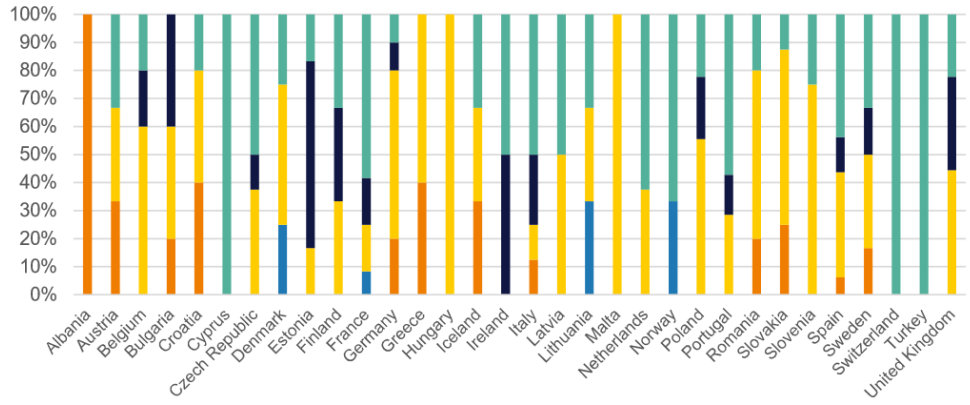
Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Count

5.2.1 What are the characteristics of your Urban Data Platform?



- 1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.
- 2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external ac
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- 5) Other ([ID364])

Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Percentage

5.2.1 What are the characteristics of your Urban Data Platform?

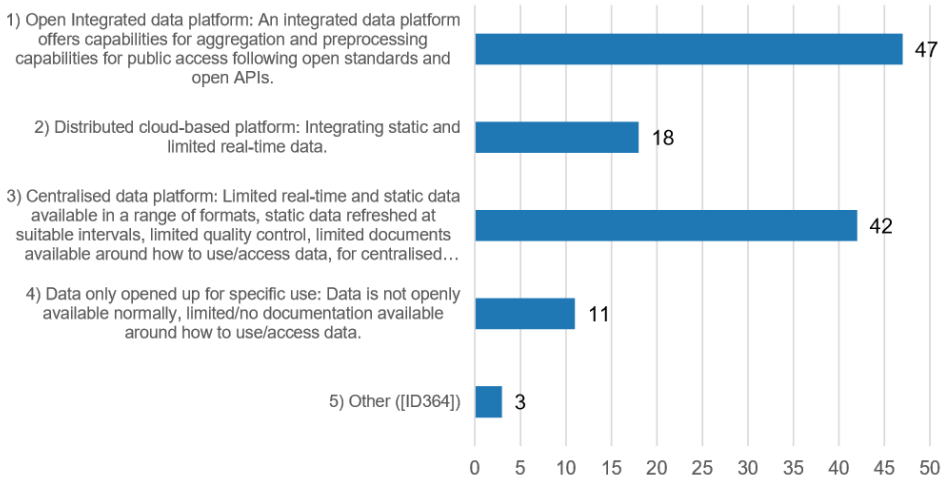
REFERENCE SAMPLE

Question typology: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **121 (78%)**

Answer	*Count*	*Percentage**
1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.	47	39%
2) Distributed cloud-based platform: Integrating static and limited real-time data.	18	15%
3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external access	42	35%
4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.	11	9%
5) Other ([ID364])	3	2%

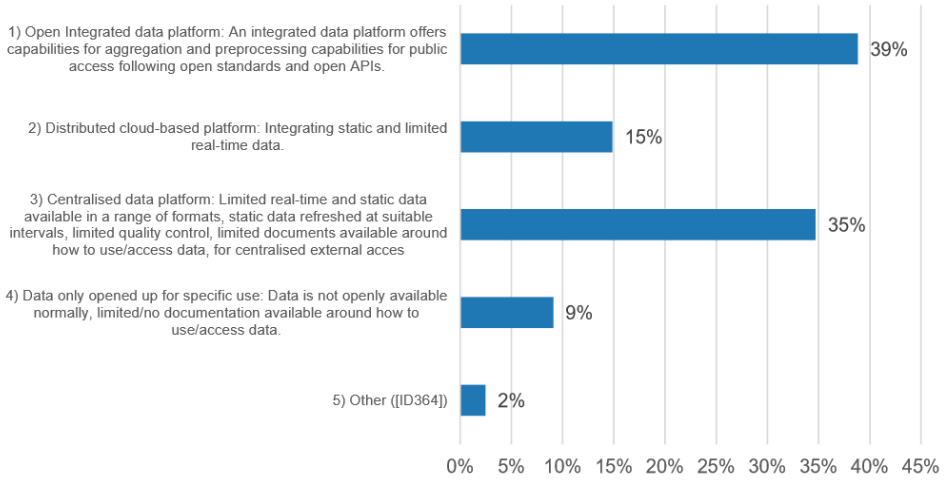
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.1 What are the characteristics of your Urban Data Platform?



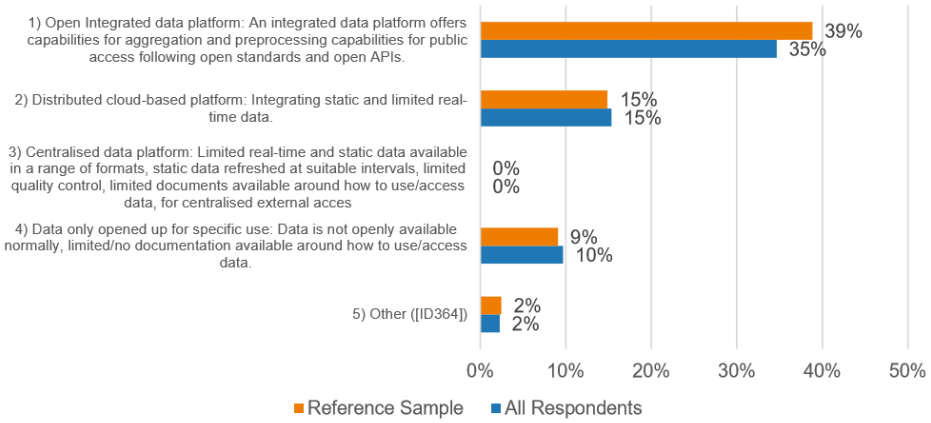
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Count

5.2.1 What are the characteristics of your Urban Data Platform?



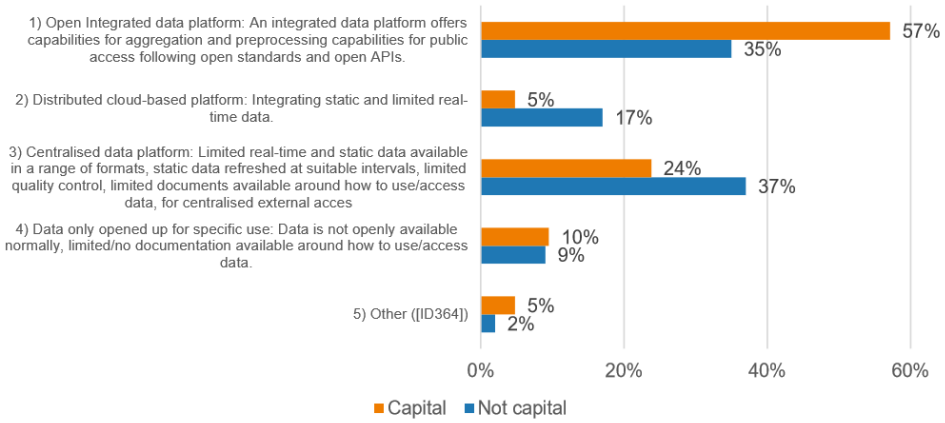
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Percentage

5.2.1 What are the characteristics of your Urban Data Platform?



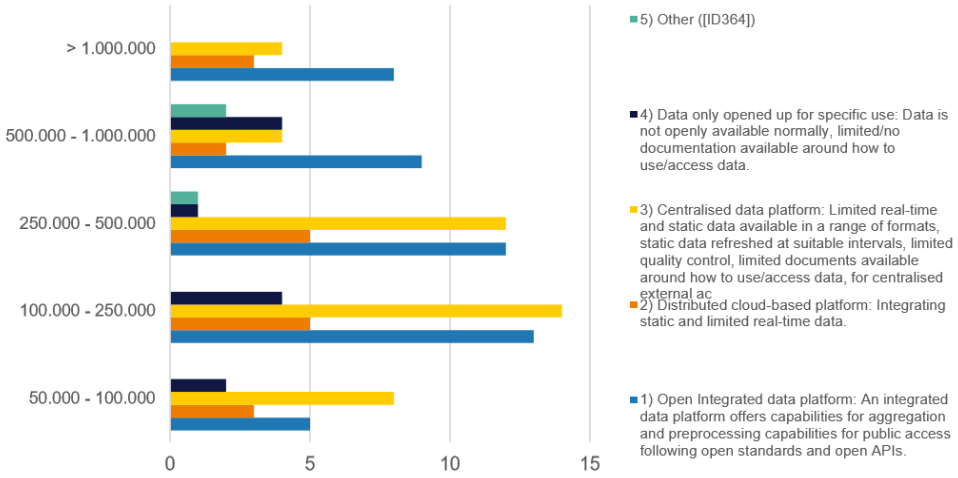
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

5.2.1 What are the characteristics of your Urban Data Platform?



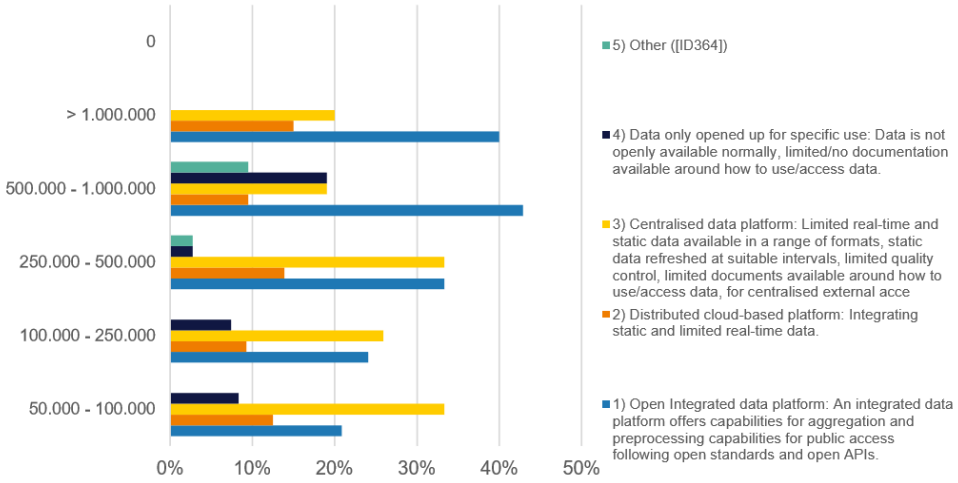
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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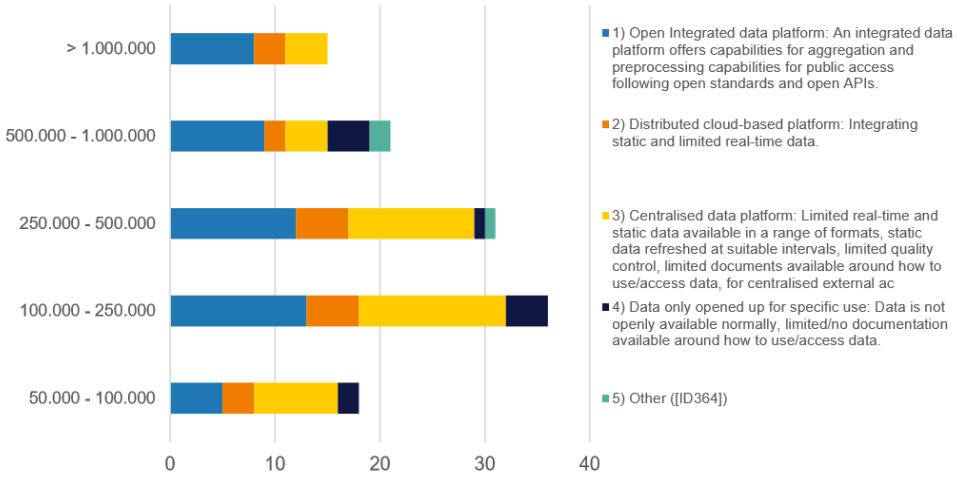
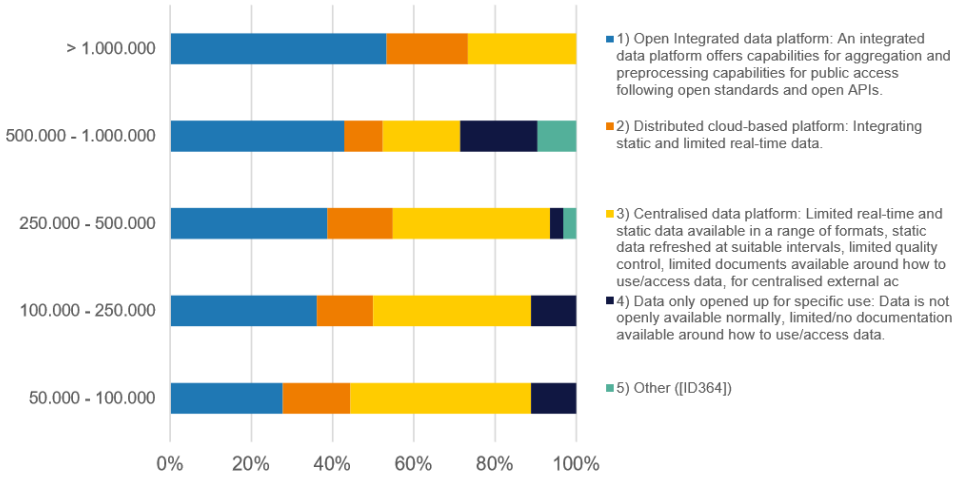


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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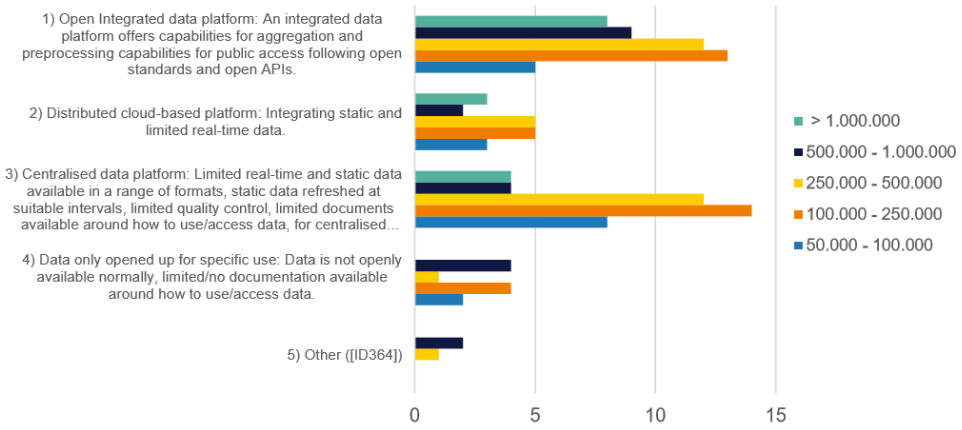
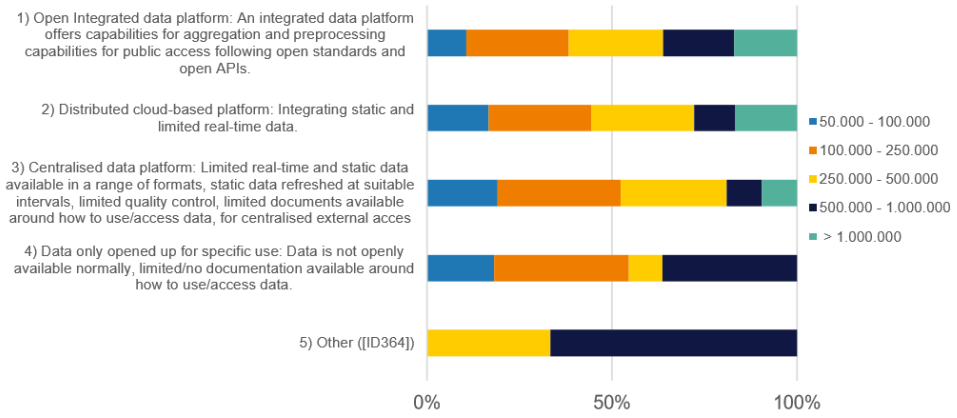


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage

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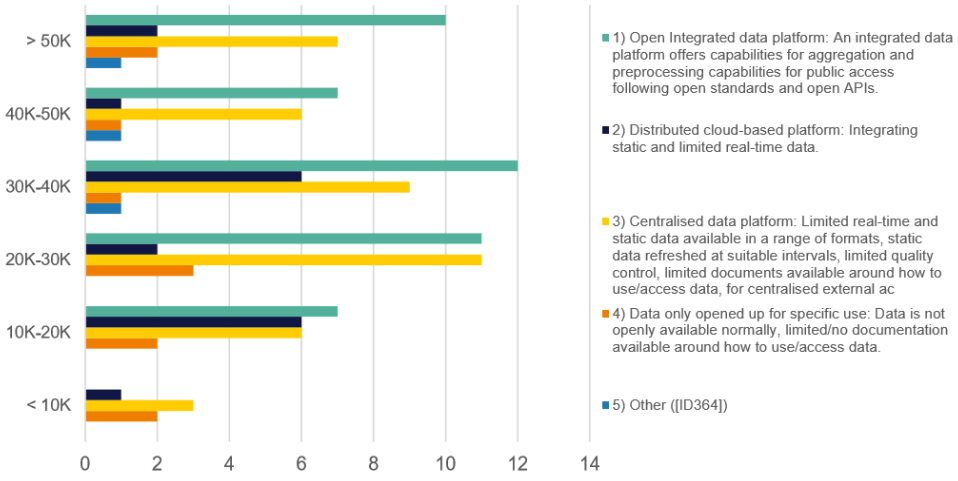
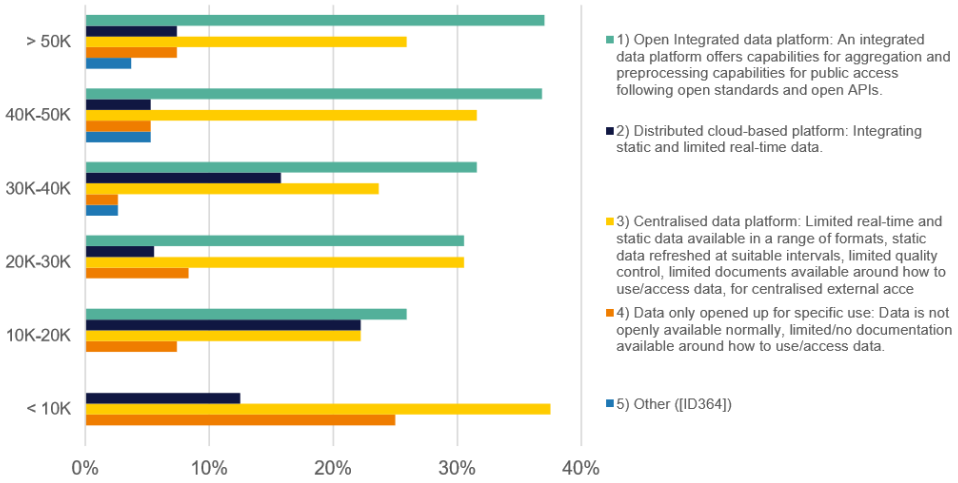


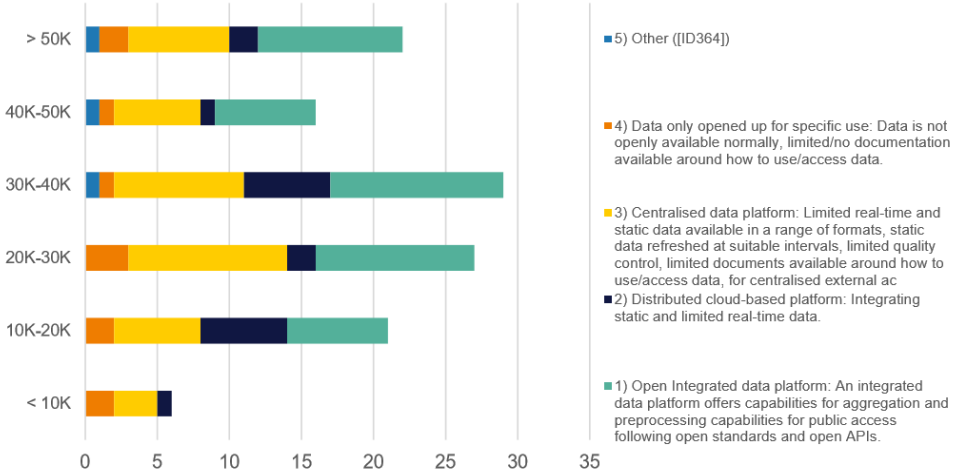
Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

5.2.1 What are the characteristics of your Urban Data Platform?



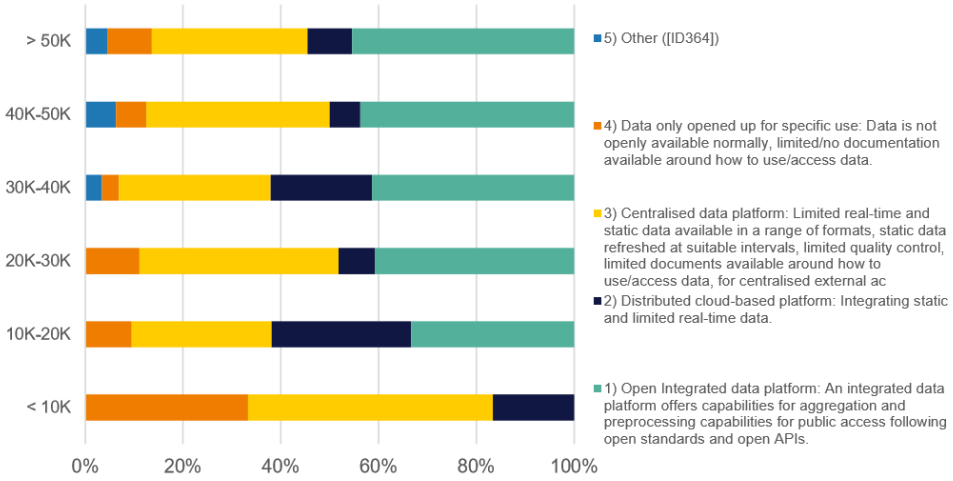
Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

5.2.1 What are the characteristics of your Urban Data Platform?



Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

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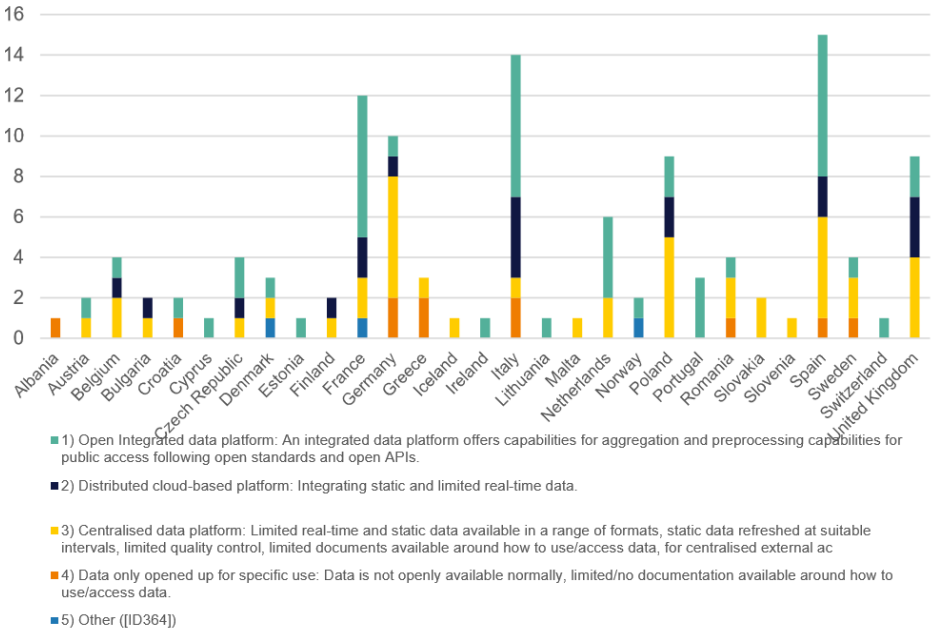
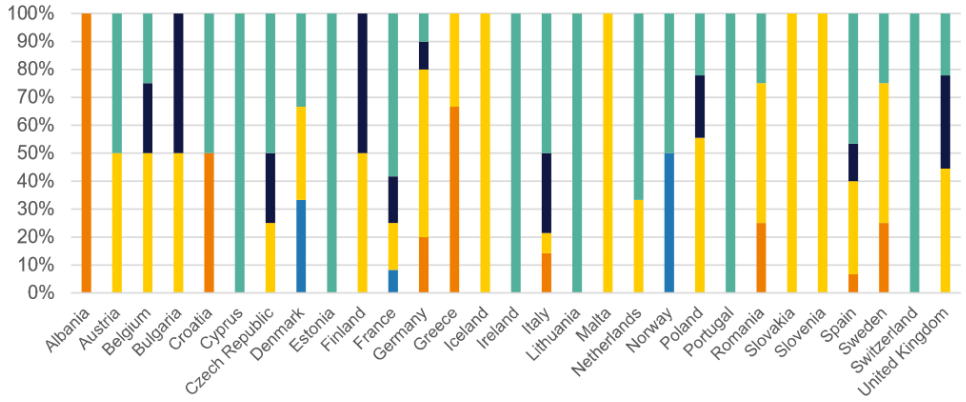


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Count

5.2.1 What are the characteristics of your Urban Data Platform?



- 1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.
- 2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external ac
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- 5) Other ([ID364])

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.26 Q_5.2.2 Please select any additional functions the Urban Data Platform can perform:

5.2.2 Please select any additional functions the Urban Data Platform can perform:

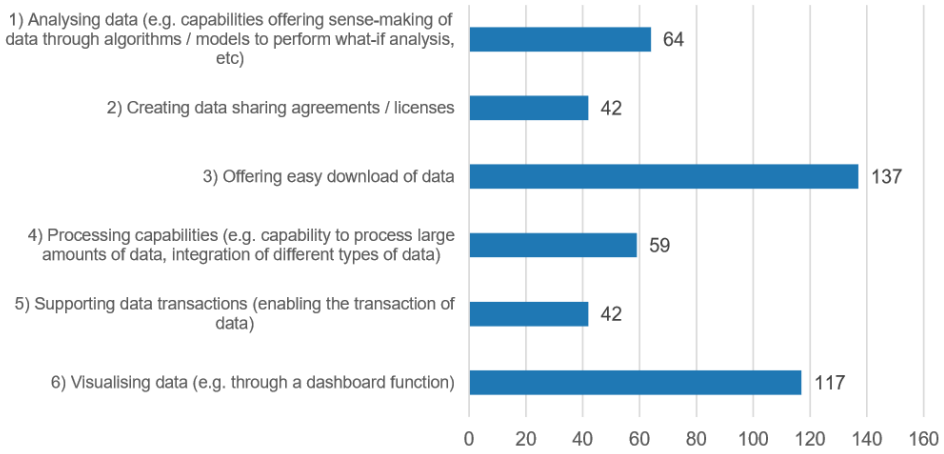
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **176 (72%)**

Answer	*Count*	*Percentage**
1) Analysing data (e.g. capabilities offering sense-making of data through algorithms / models to perform	64	36%
2) Creating data sharing agreements / licenses	42	24%
3) Offering easy download of data	137	78%
4) Processing capabilities (e.g. capability to process large amounts of data, integration of different types of	59	34%
5) Supporting data transactions (enabling the transaction of data)	42	24%
6) Visualising data (e.g. through a dashboard function)	117	66%

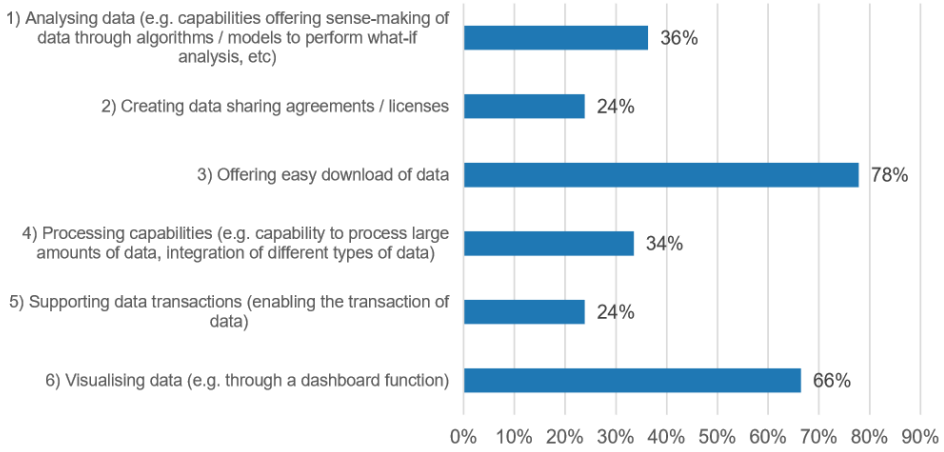
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.2 Please select any additional functions the Urban Data Platform can perform:



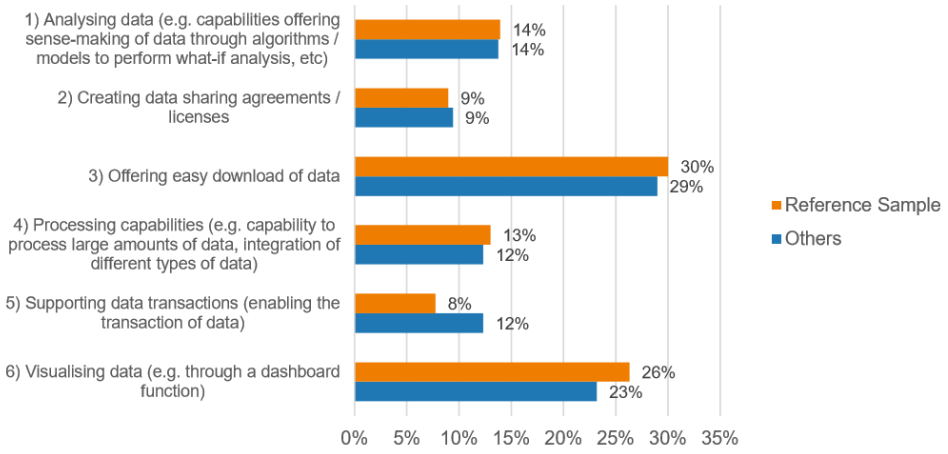
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



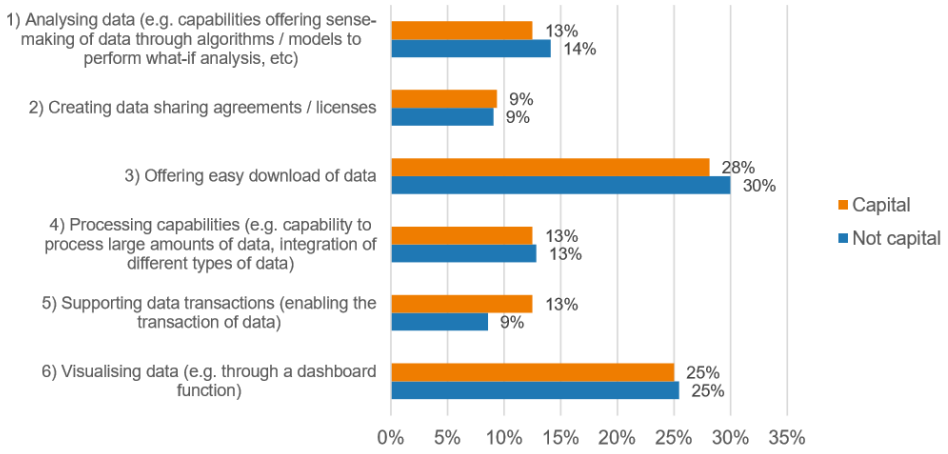
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



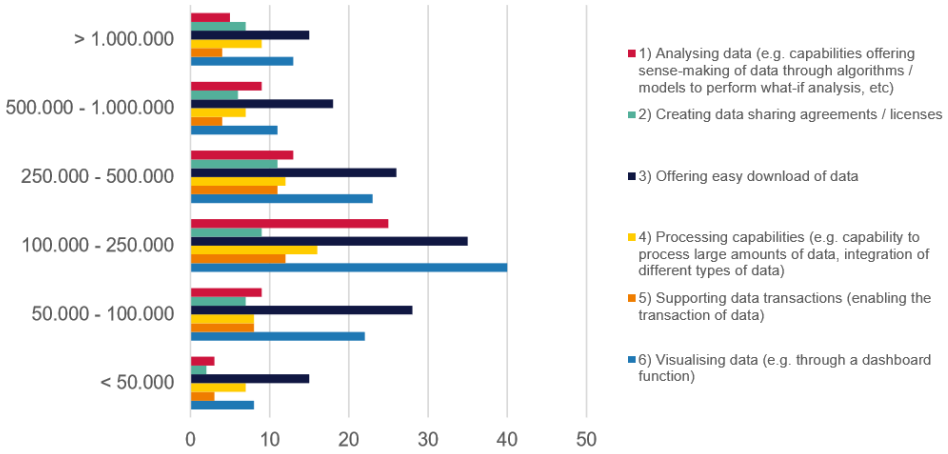
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



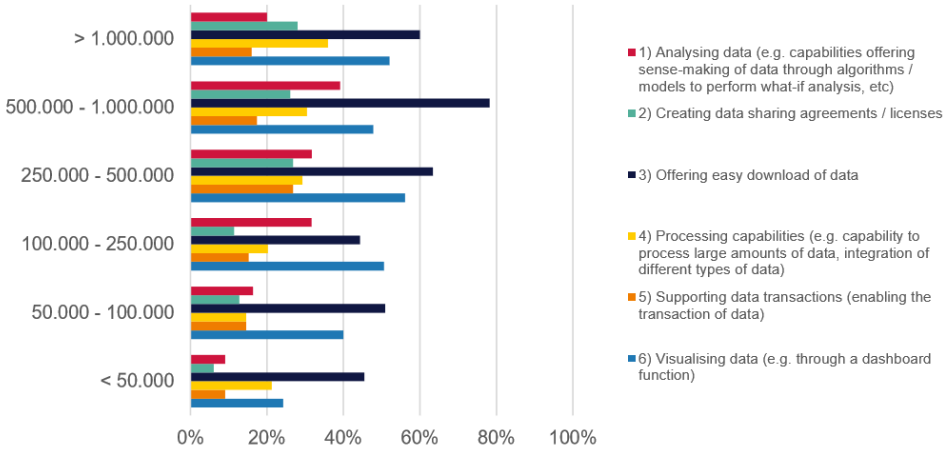
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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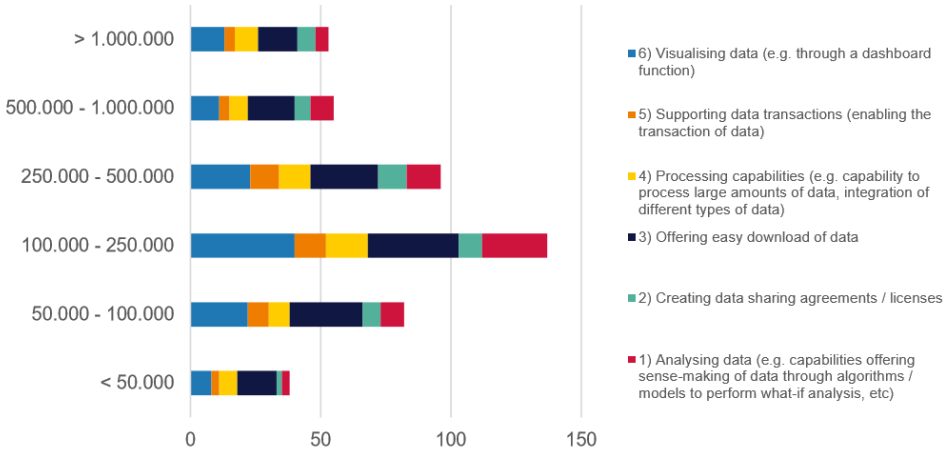
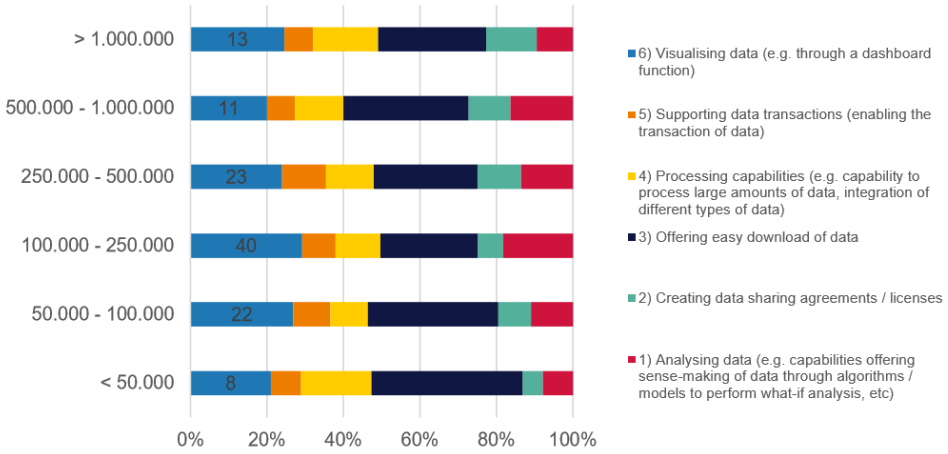


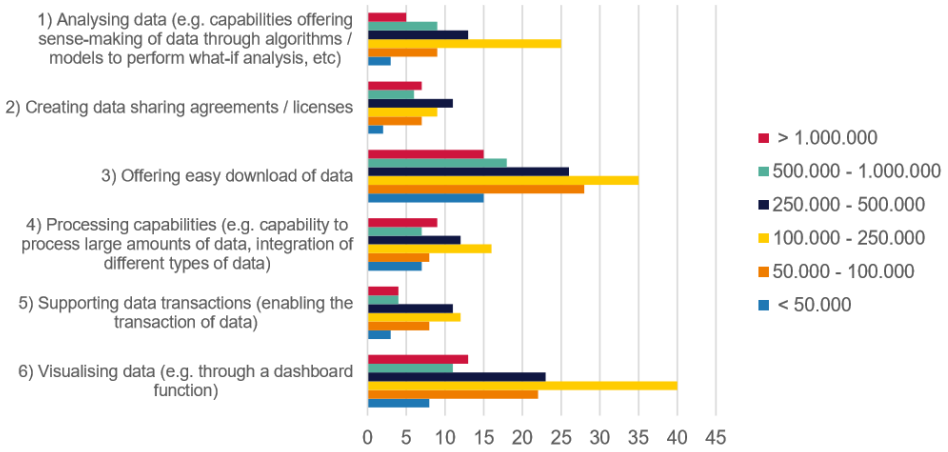
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



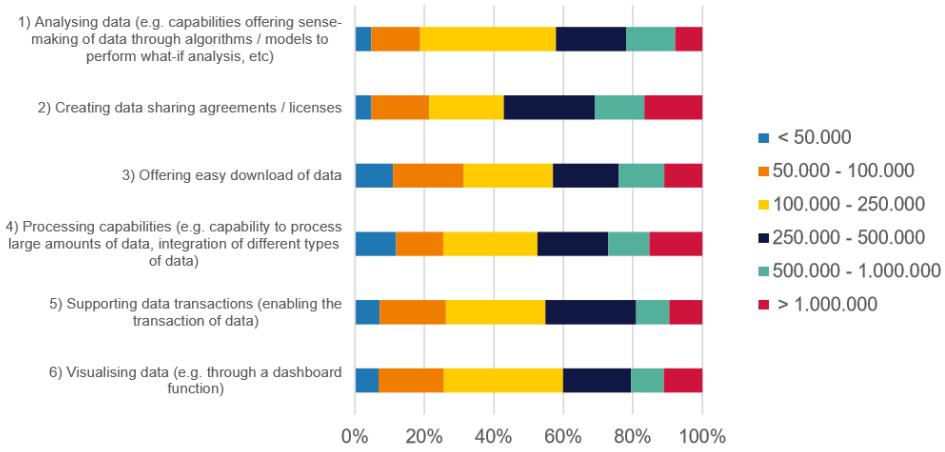
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



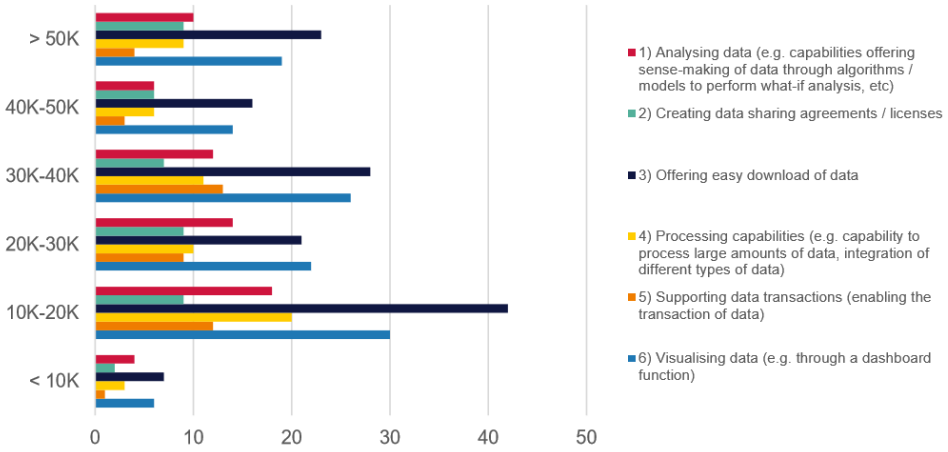
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



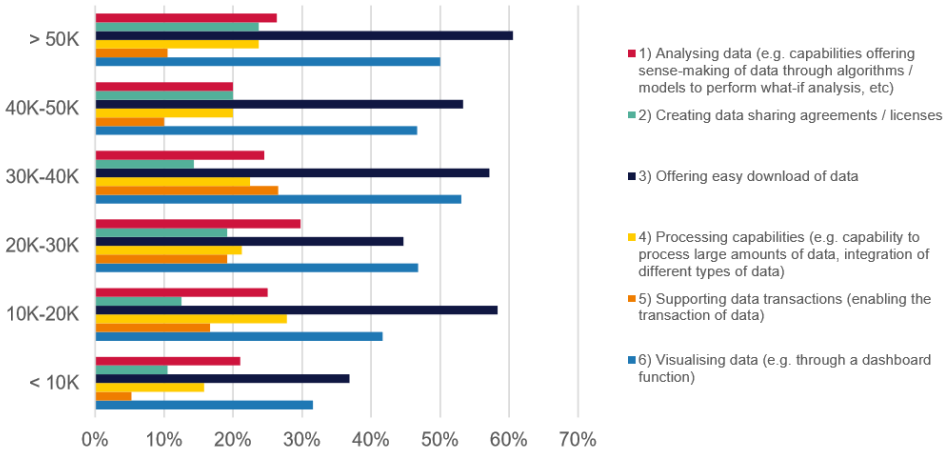
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



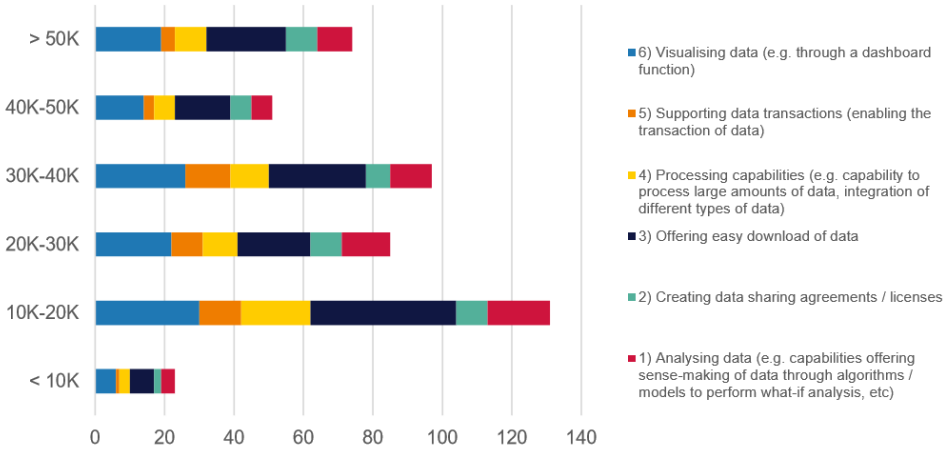
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



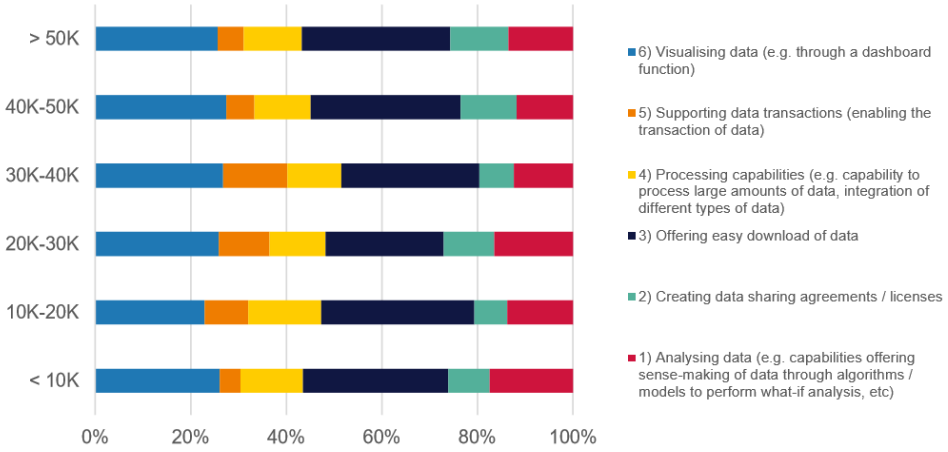
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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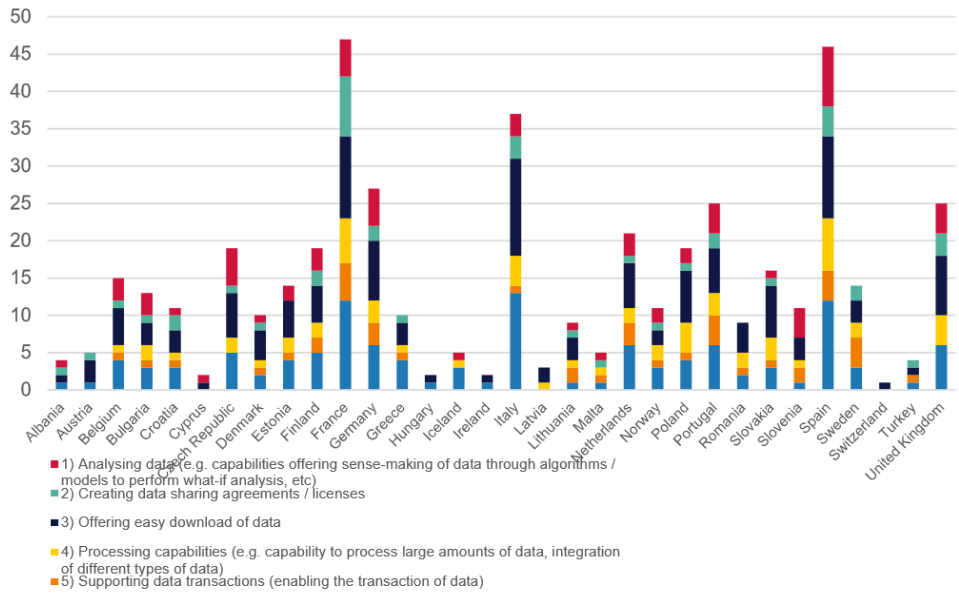

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

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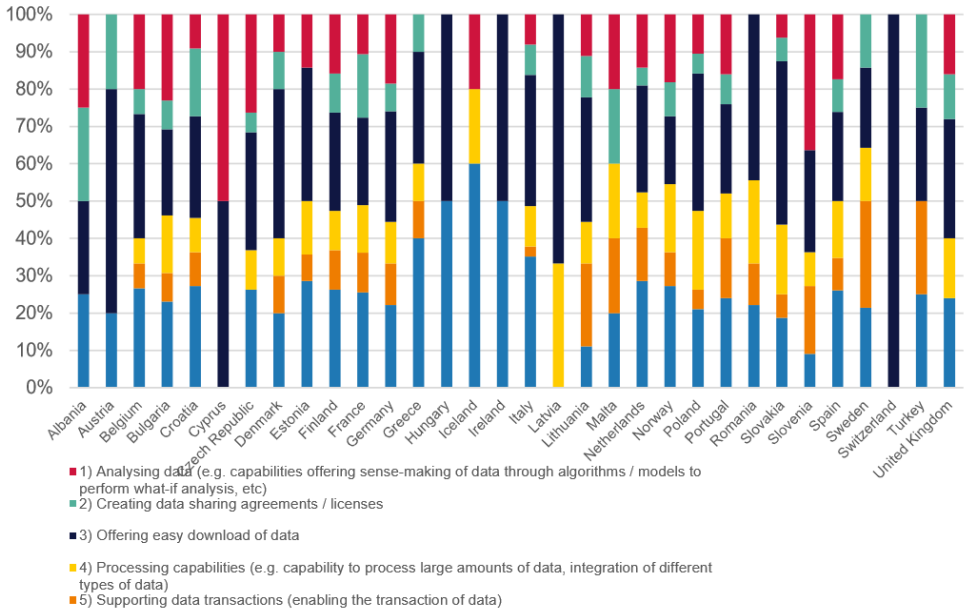


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:

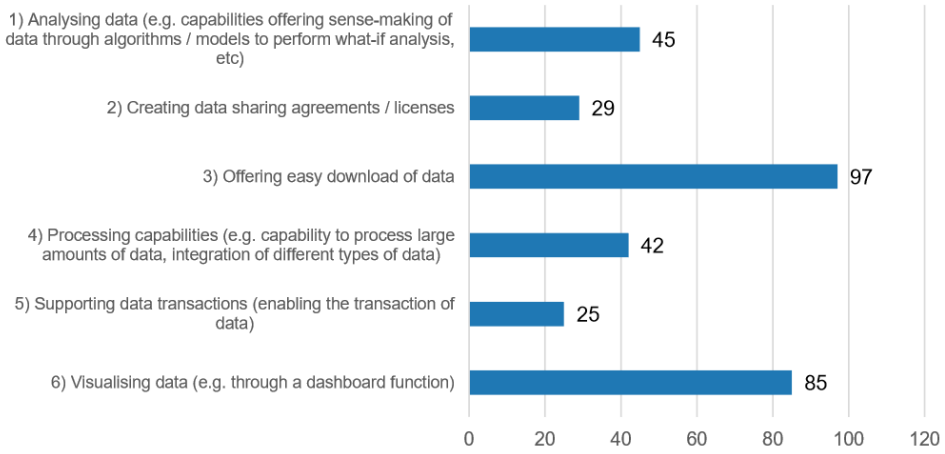
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **121 (78%)**

Answer	*Count*	*Percentage**
1) Analysing data (e.g. capabilities offering sense-making of data through algorithms / models to perform	45	37%
2) Creating data sharing agreements / licenses	29	24%
3) Offering easy download of data	97	80%
4) Processing capabilities (e.g. capability to process large amounts of data, integration of different types of	42	35%
5) Supporting data transactions (enabling the transaction of data)	25	21%
6) Visualising data (e.g. through a dashboard function)	85	70%

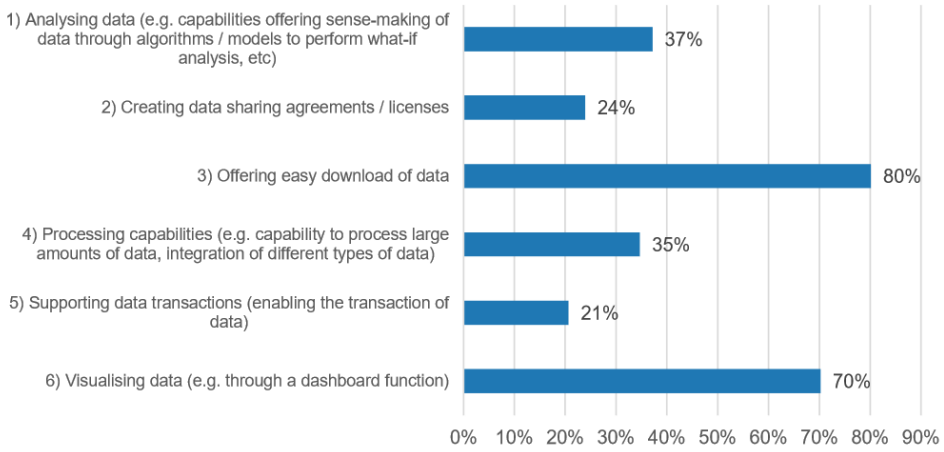
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.2 Please select any additional functions the Urban Data Platform can perform:



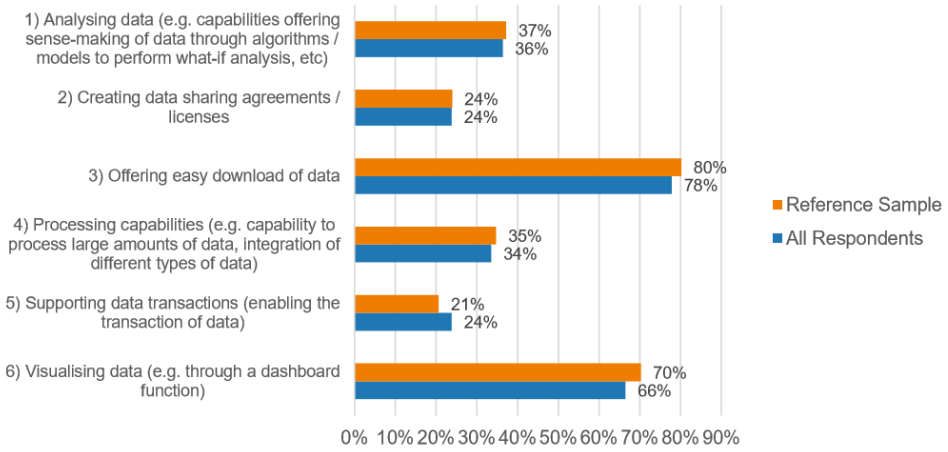
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



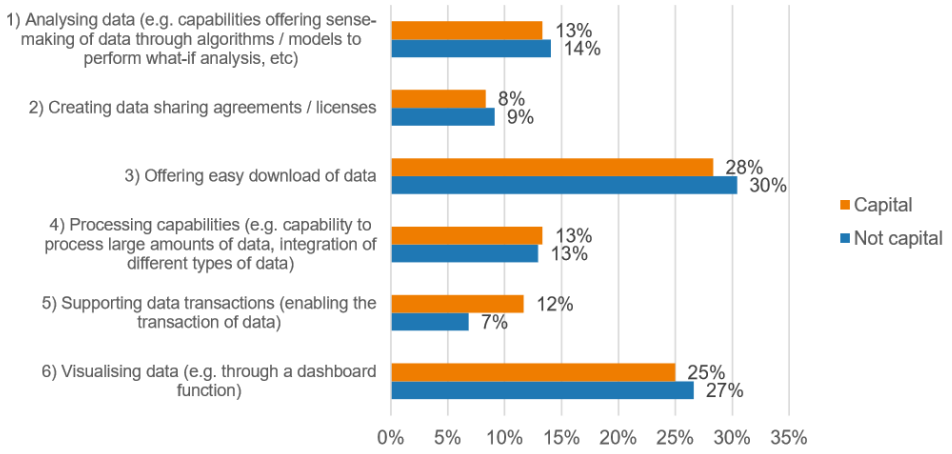
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



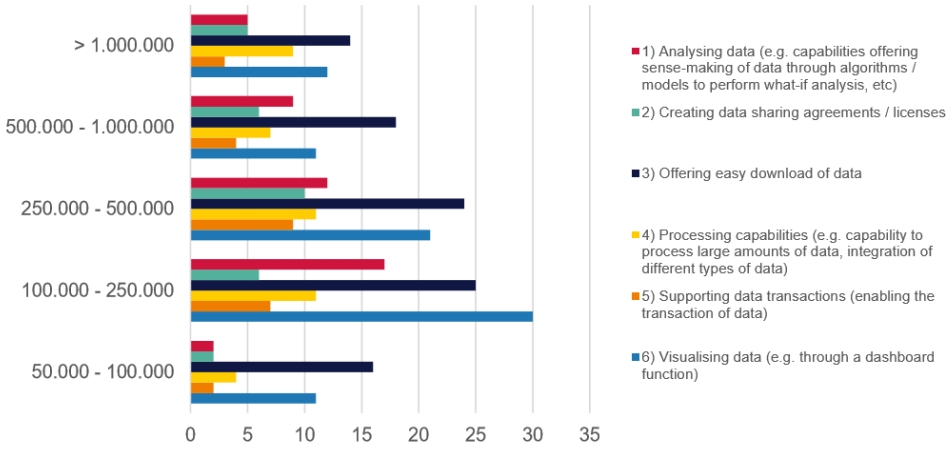
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



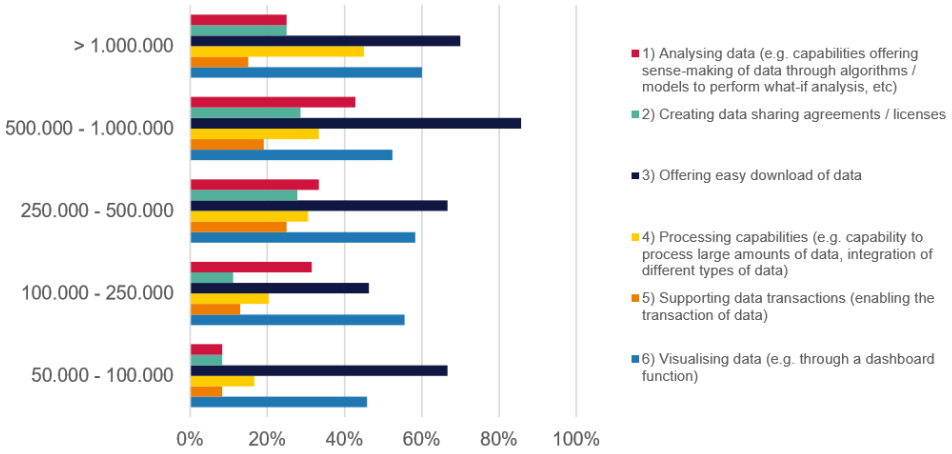
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



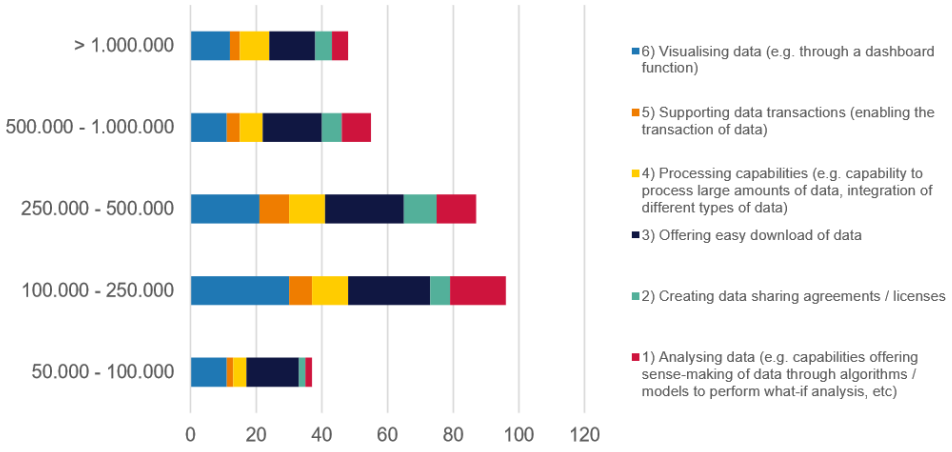
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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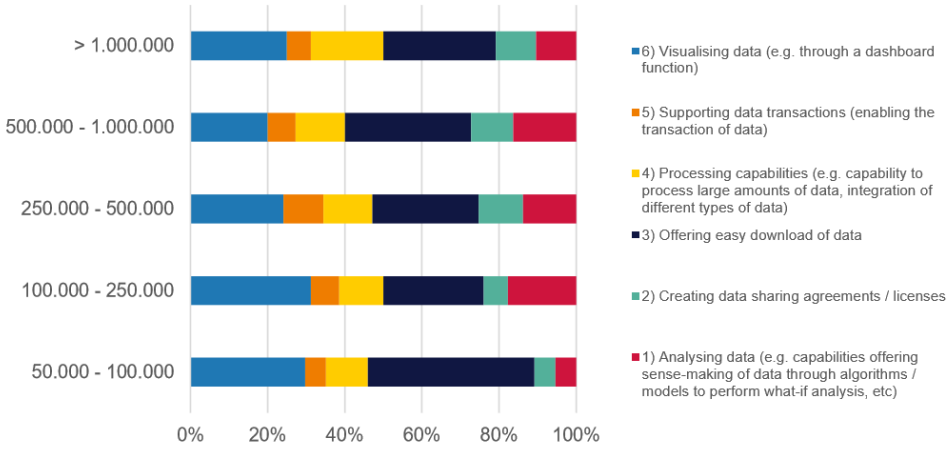

Question type	Data sample	Cluster	Value
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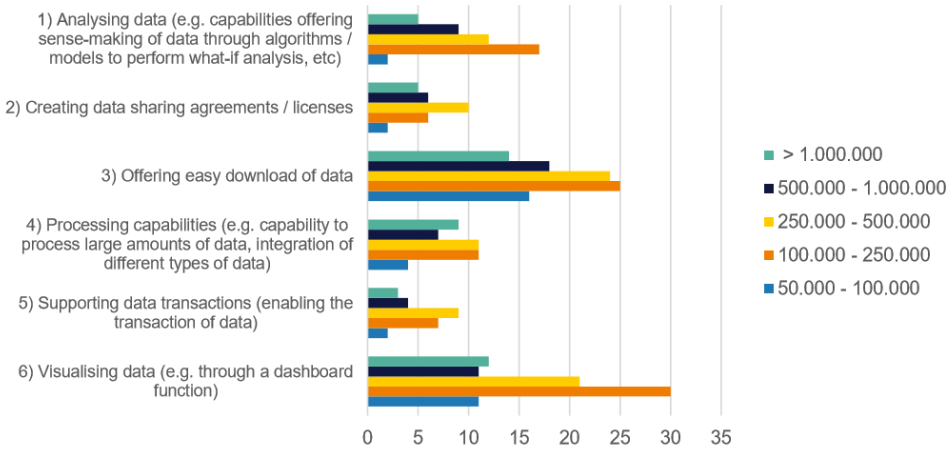
5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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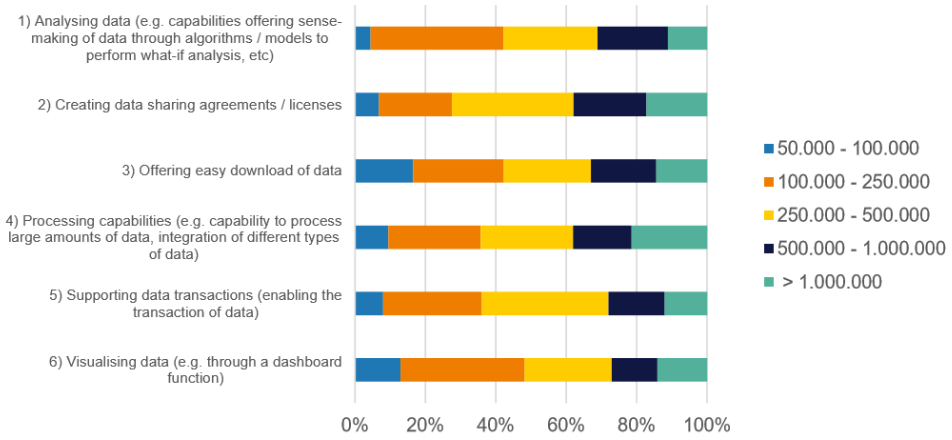

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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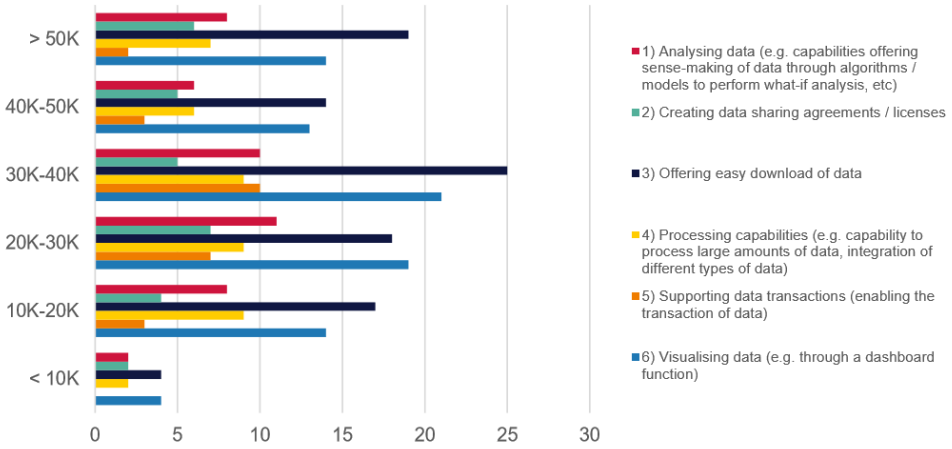
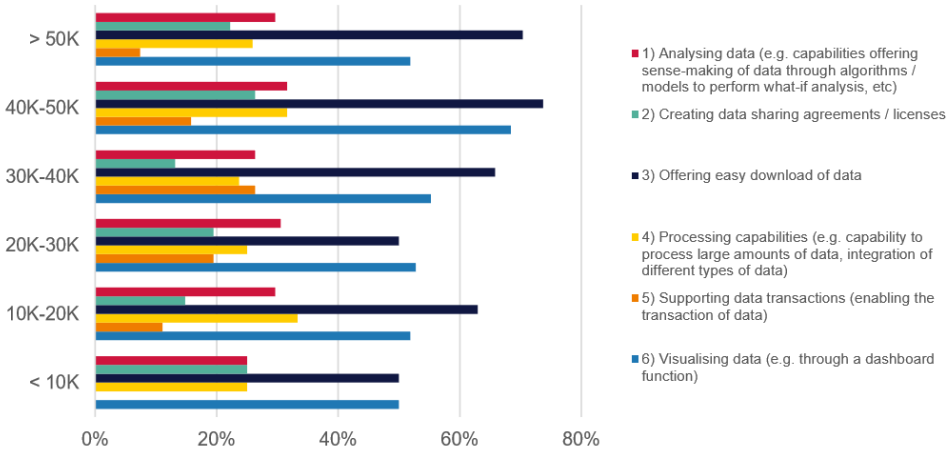


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

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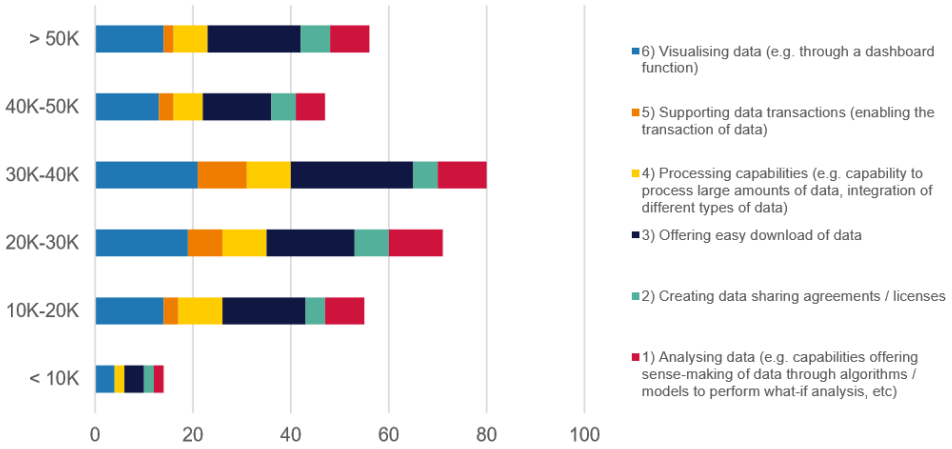
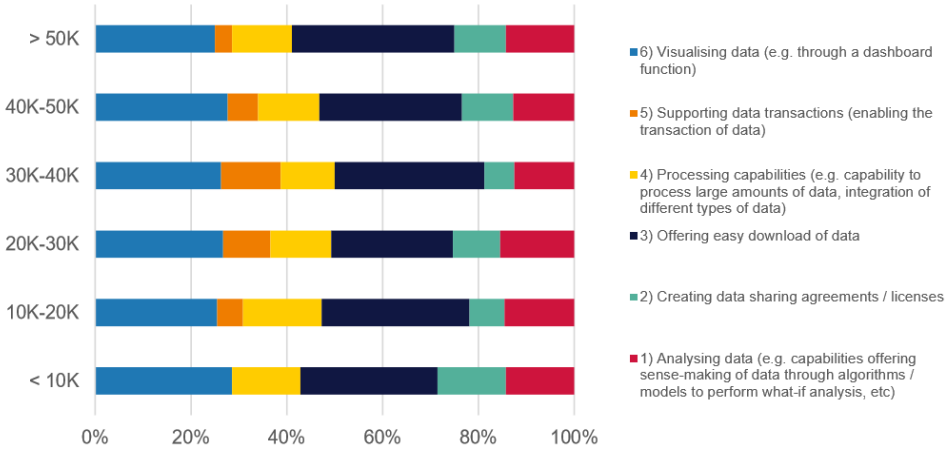


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.2 Please select any additional functions the Urban Data Platform can perform:



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

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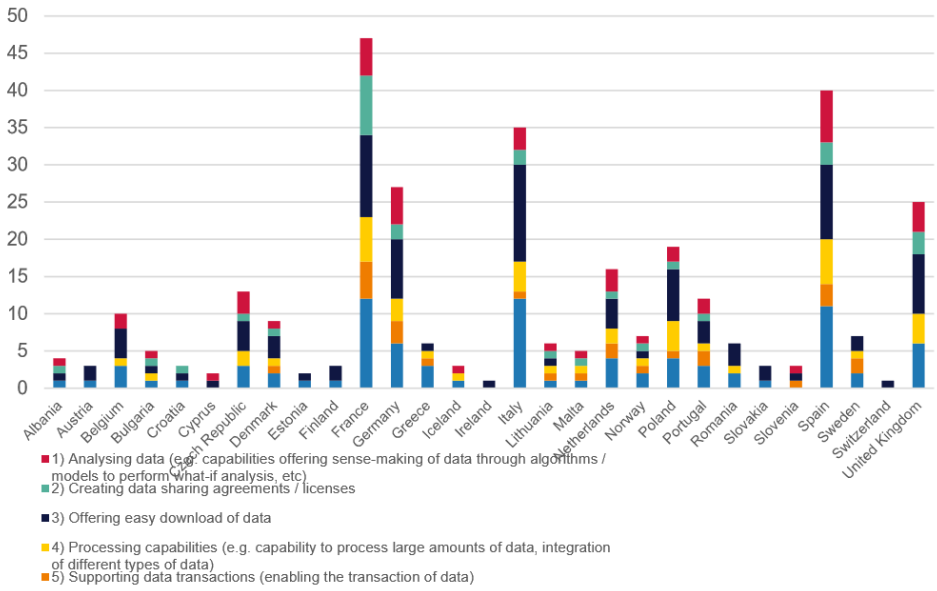

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

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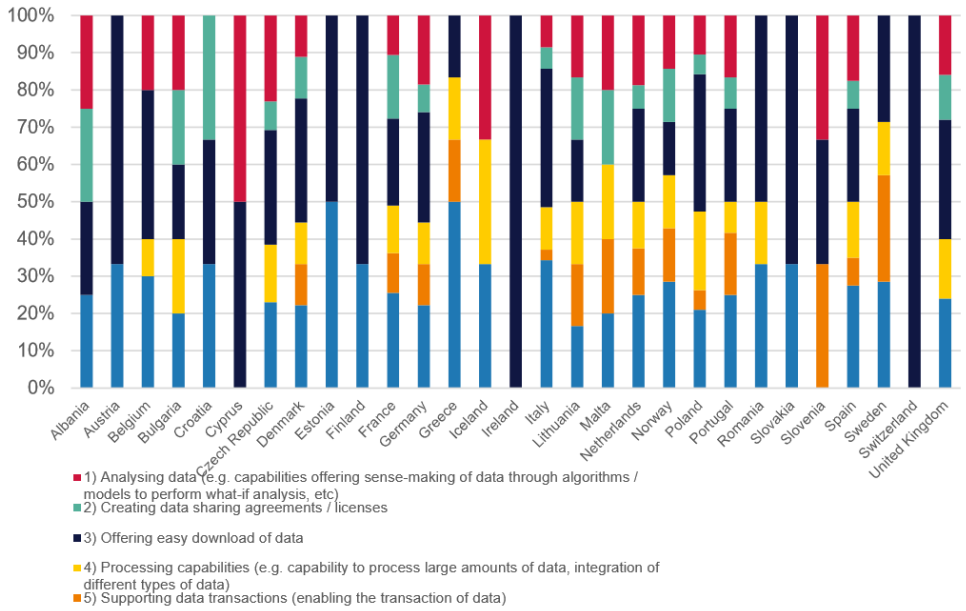


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.27 Q_5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?

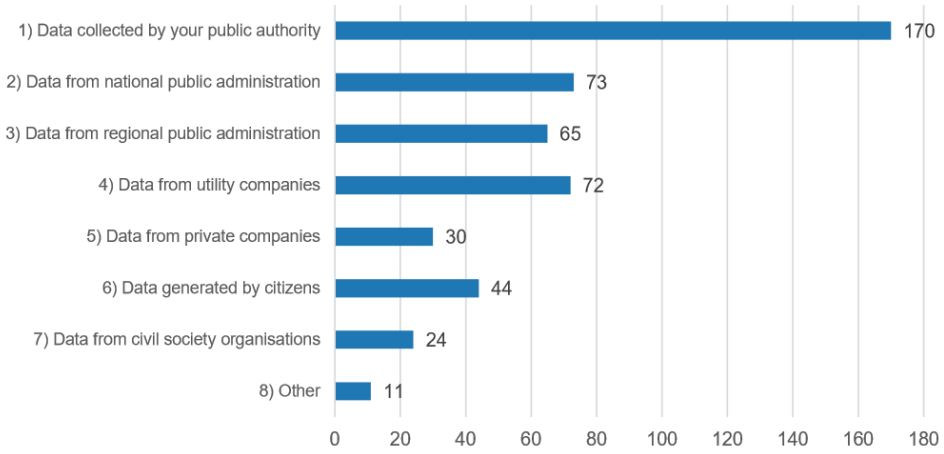
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **176 (72%)**

Answer	*Count*	*Percentage**
1) Data collected by your public authority	170	97%
2) Data from national public administration	73	41%
3) Data from regional public administration	65	37%
4) Data from utility companies	72	41%
5) Data from private companies	30	17%
6) Data generated by citizens	44	25%
7) Data from civil society organisations	24	14%
8) Other	11	6%

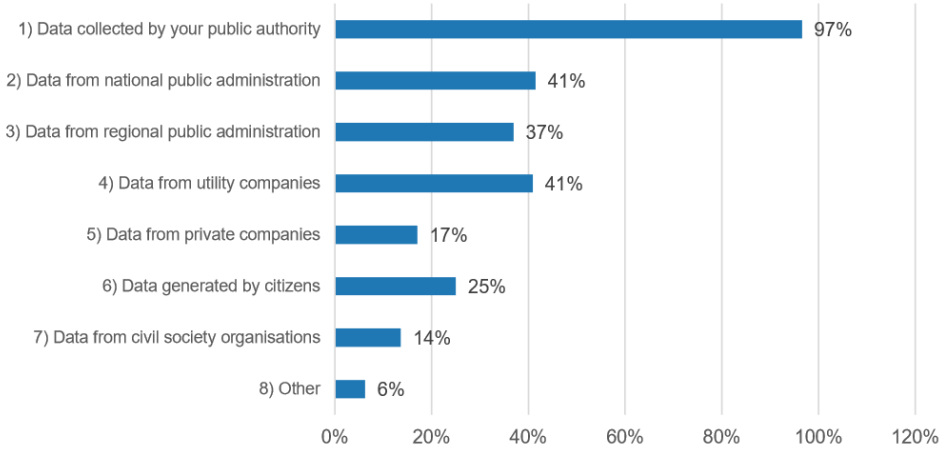
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

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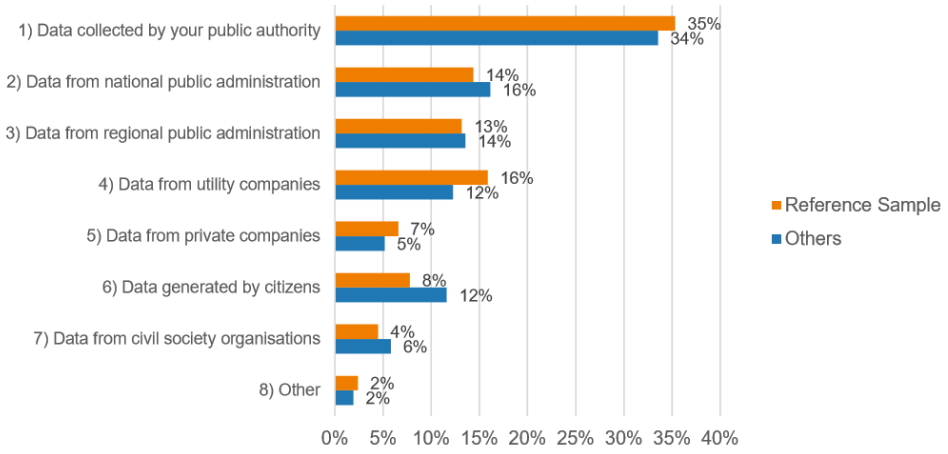
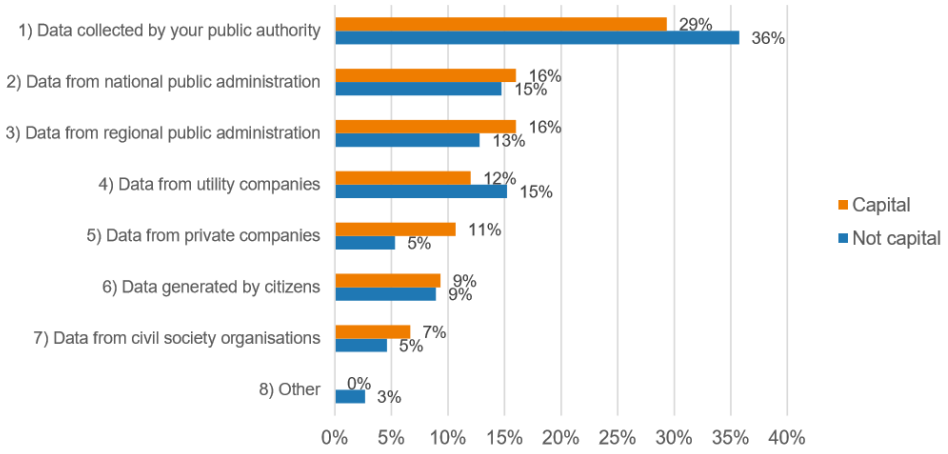


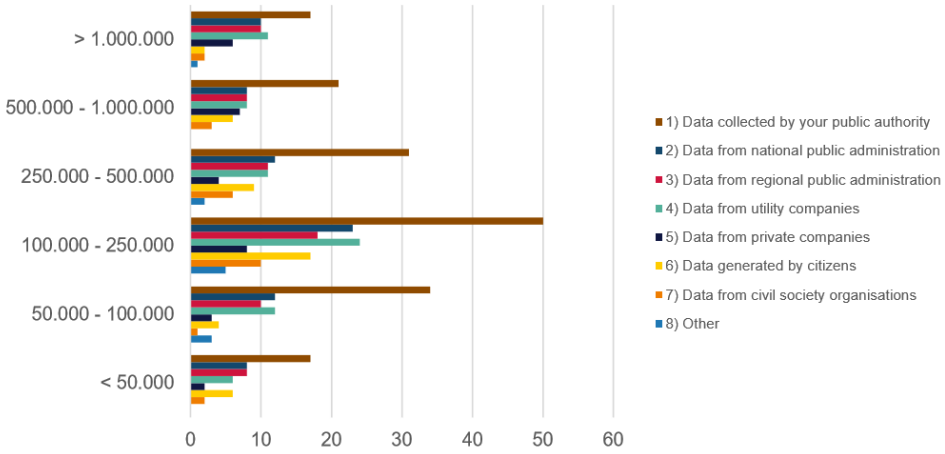
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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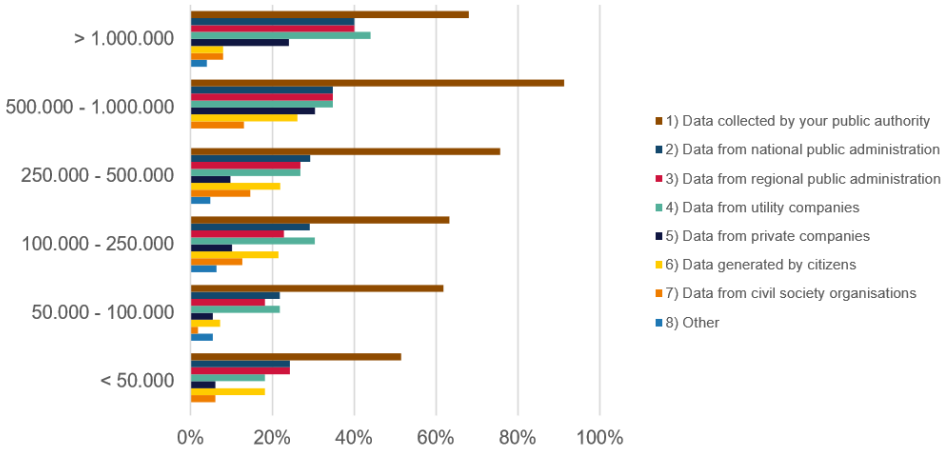

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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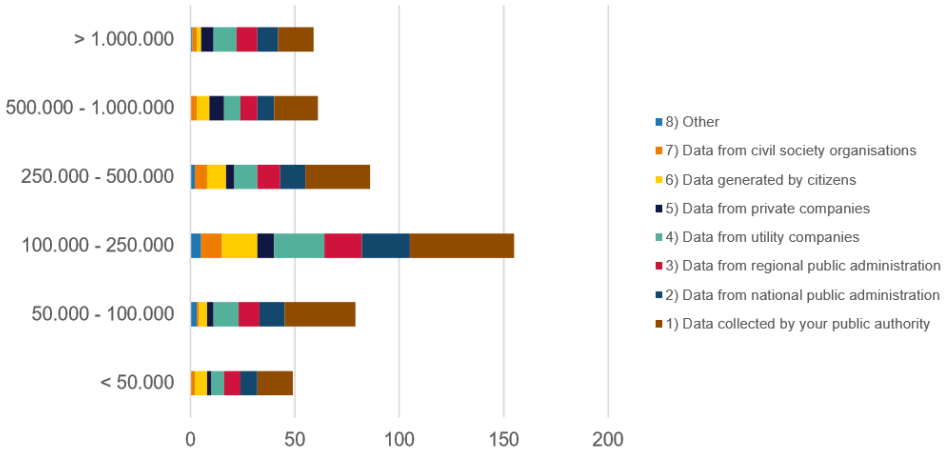

Question type	Data sample	Cluster	Value
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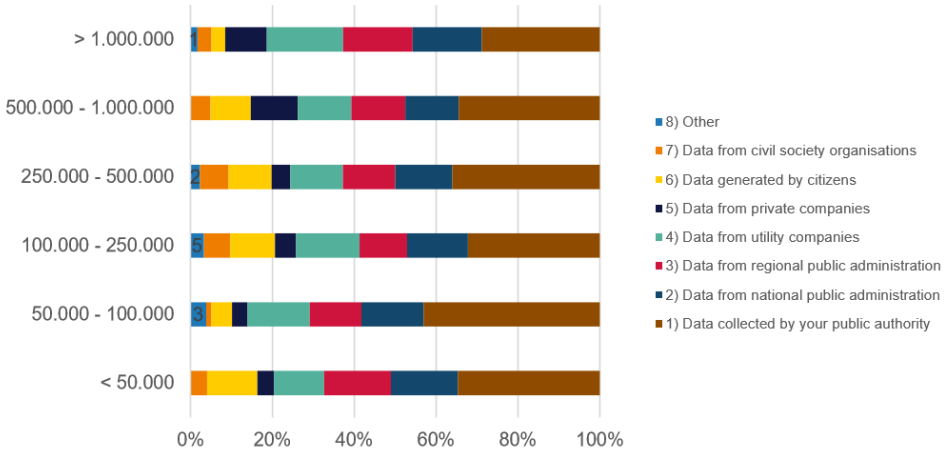

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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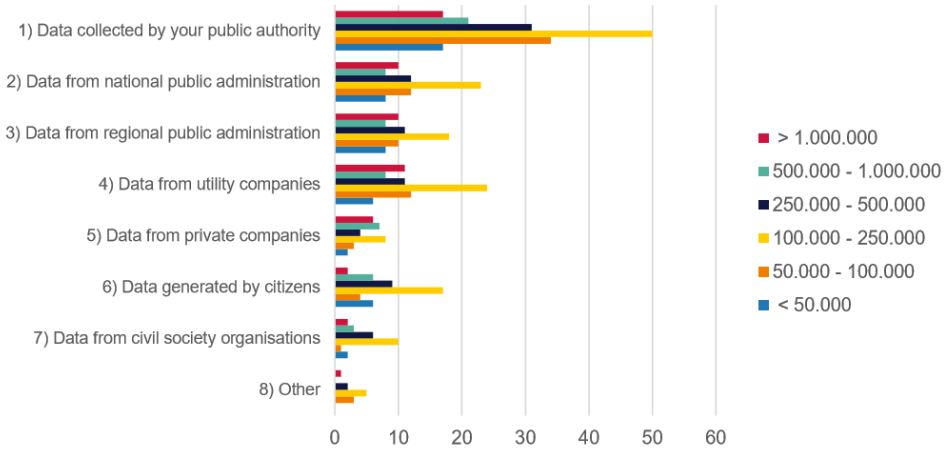

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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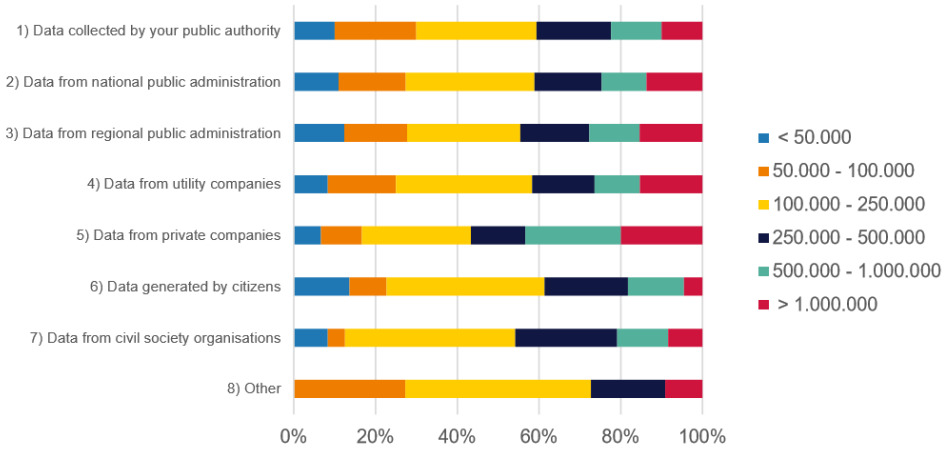

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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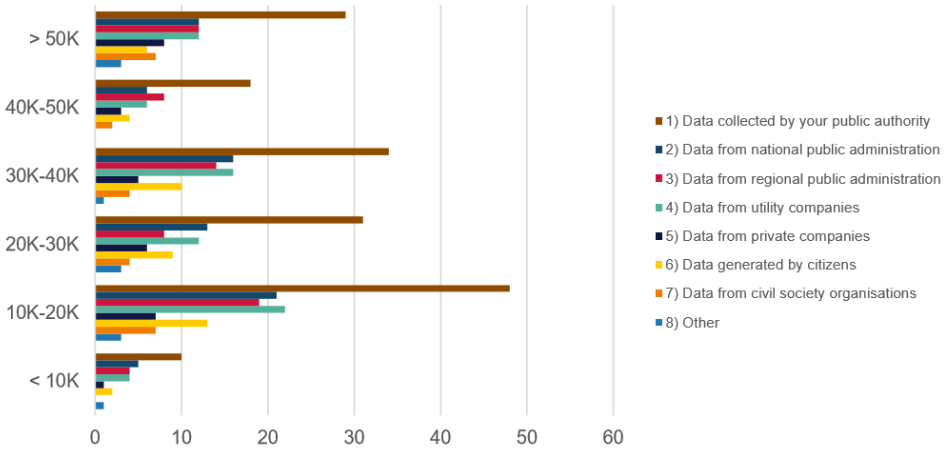
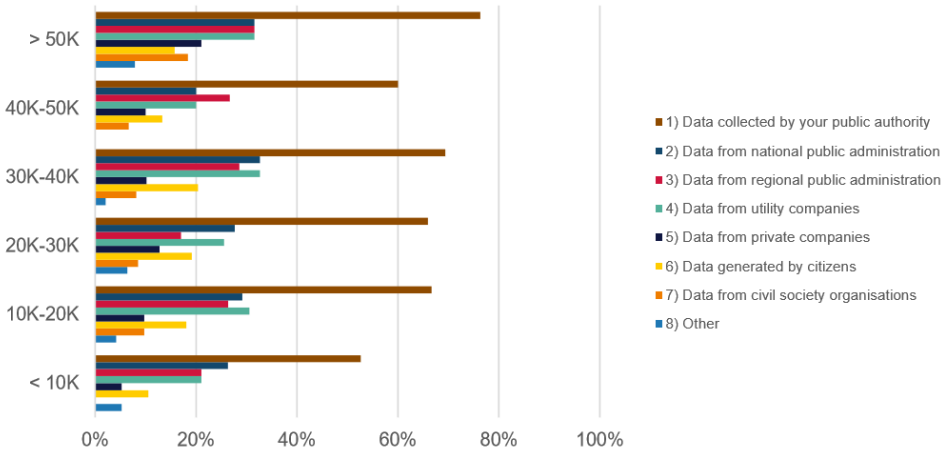


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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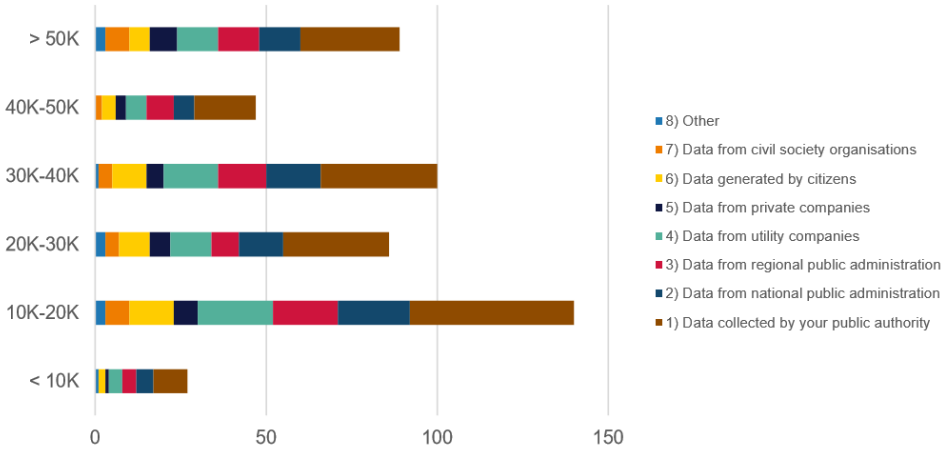

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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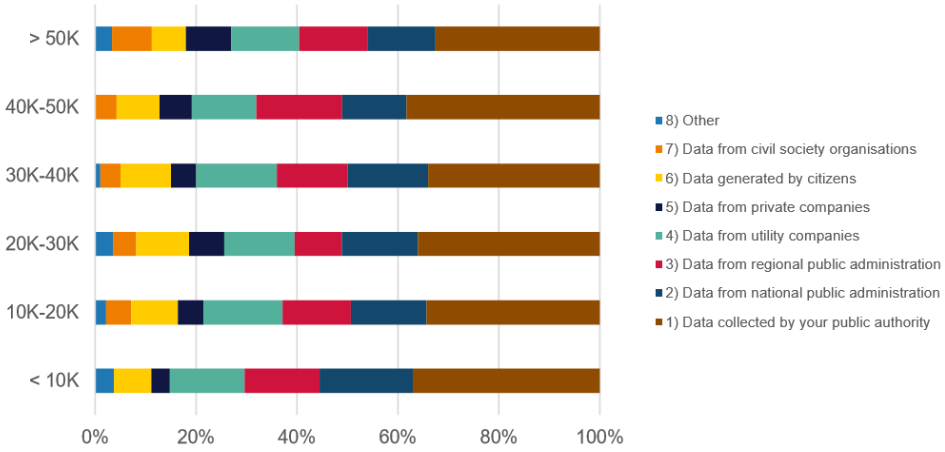

Question type	Data sample	Cluster	Value
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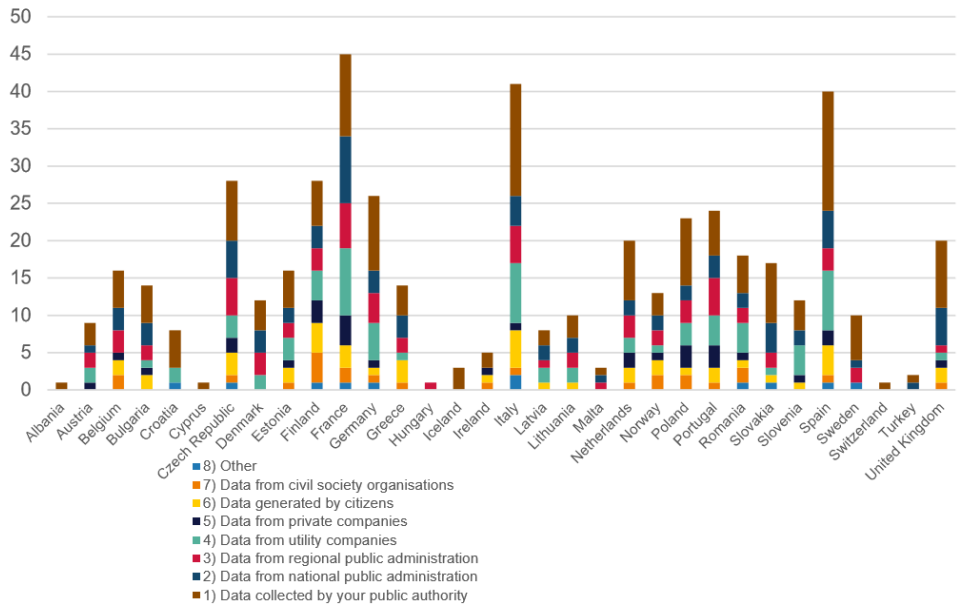

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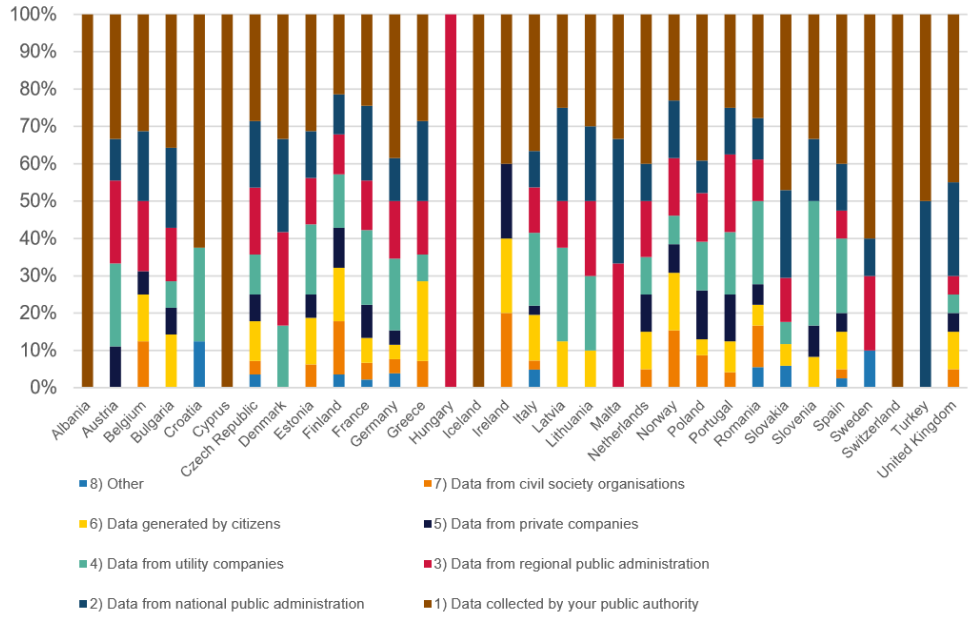


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?

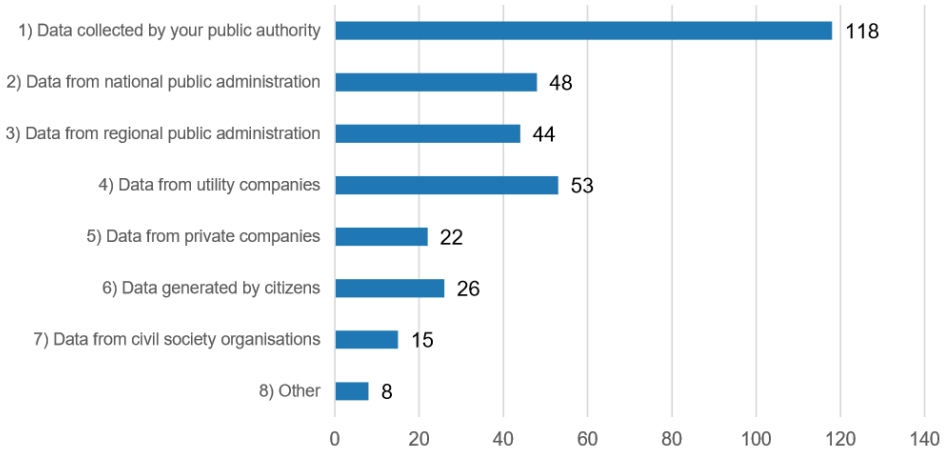
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **121 (78%)**

Answer	*Count*	*Percentage**
1) Data collected by your public authority	118	98%
2) Data from national public administration	48	40%
3) Data from regional public administration	44	36%
4) Data from utility companies	53	44%
5) Data from private companies	22	18%
6) Data generated by citizens	26	21%
7) Data from civil society organisations	15	12%
8) Other	8	7%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
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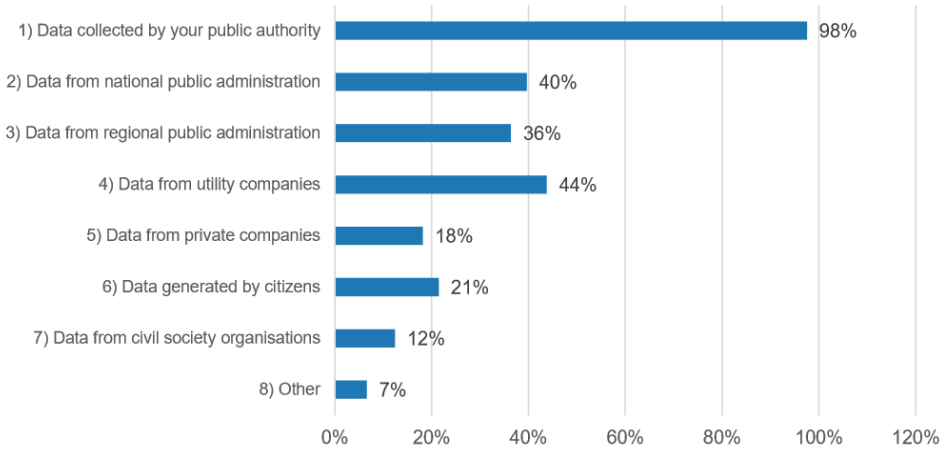

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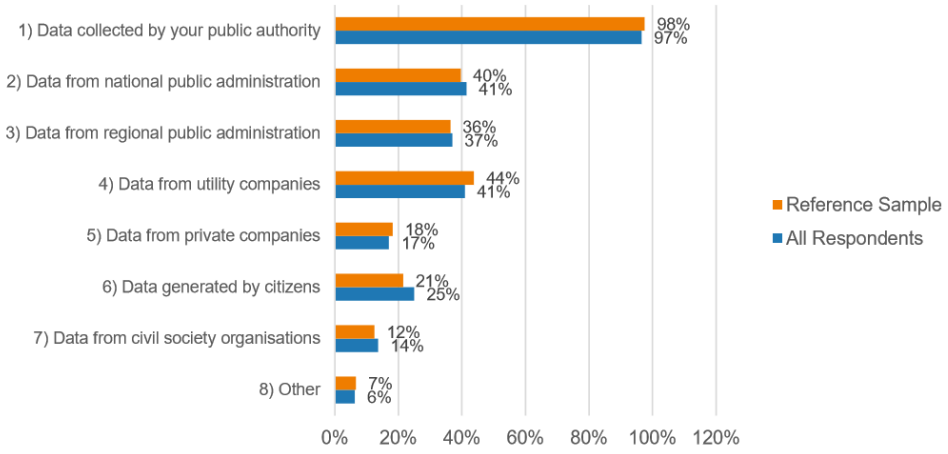

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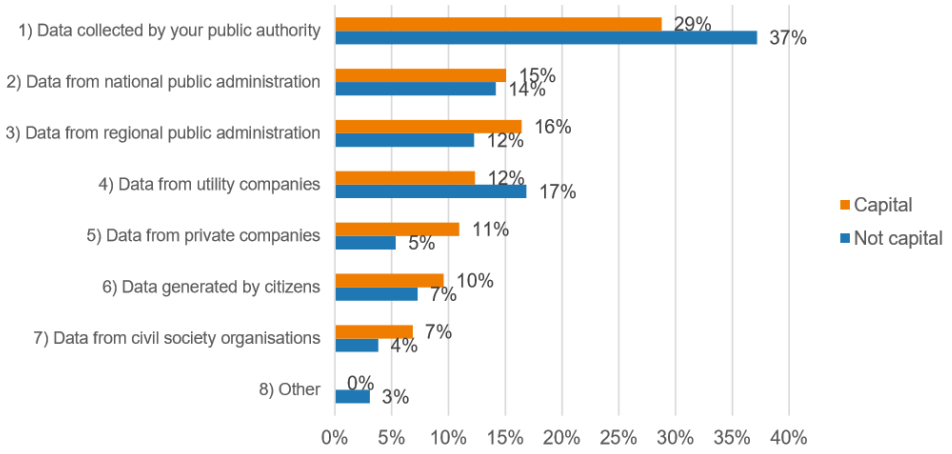

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

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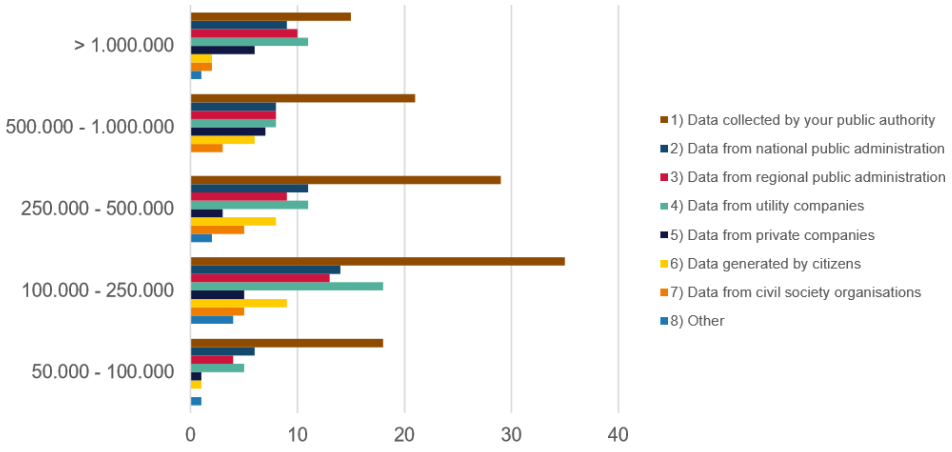

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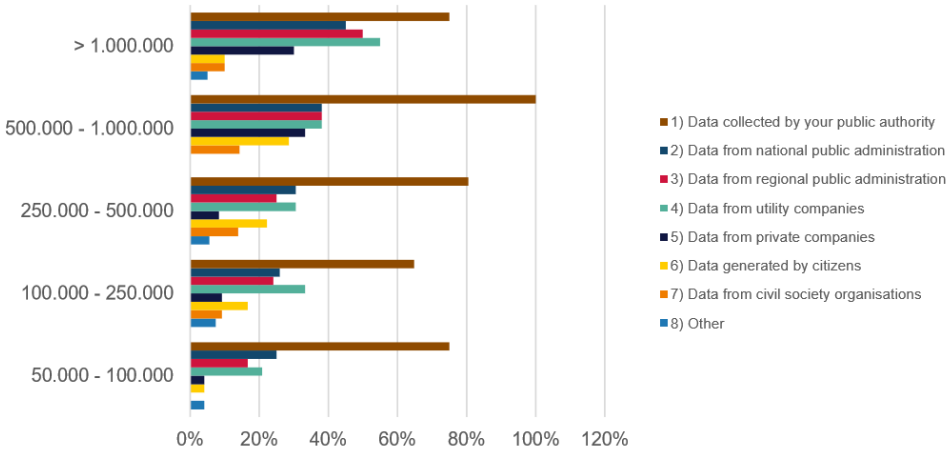

Question type	Data sample	Cluster	Value
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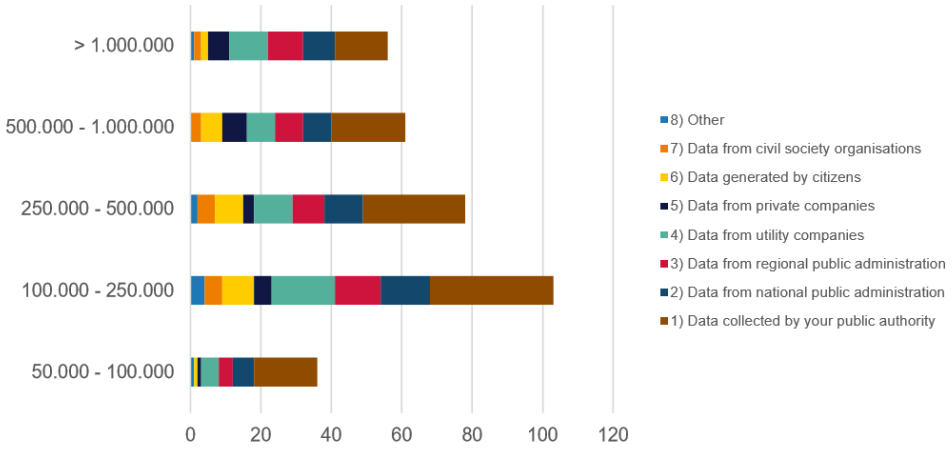

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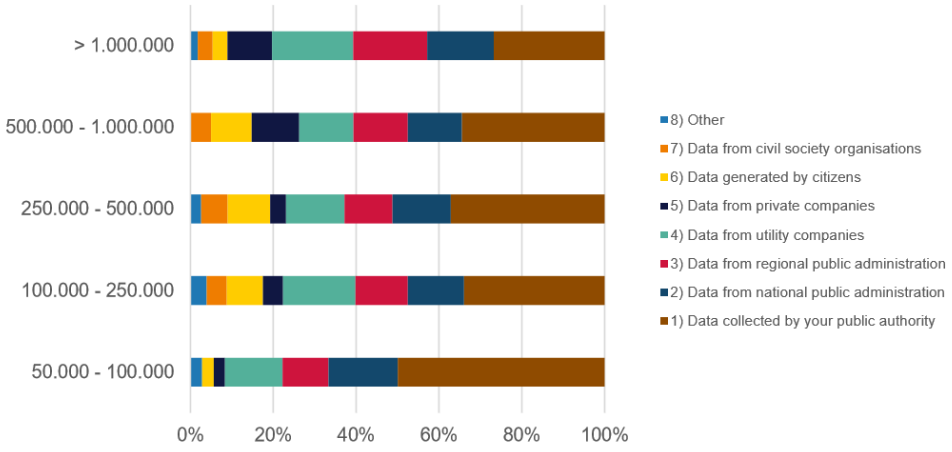

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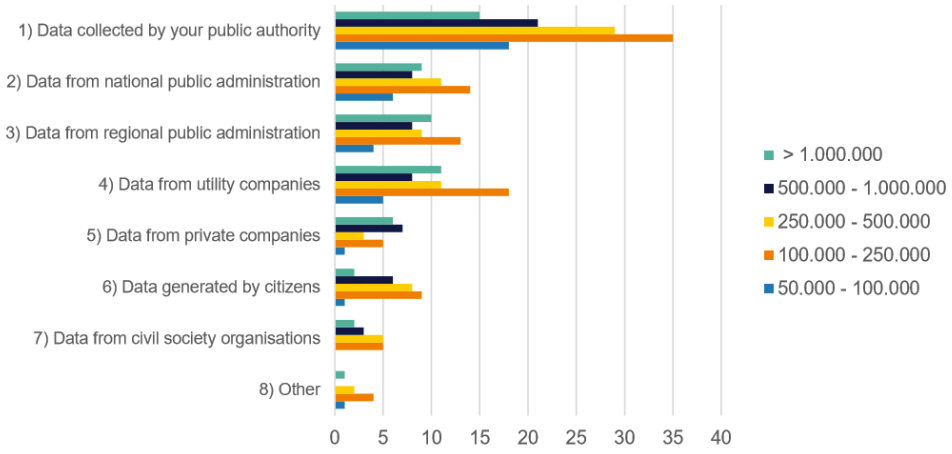

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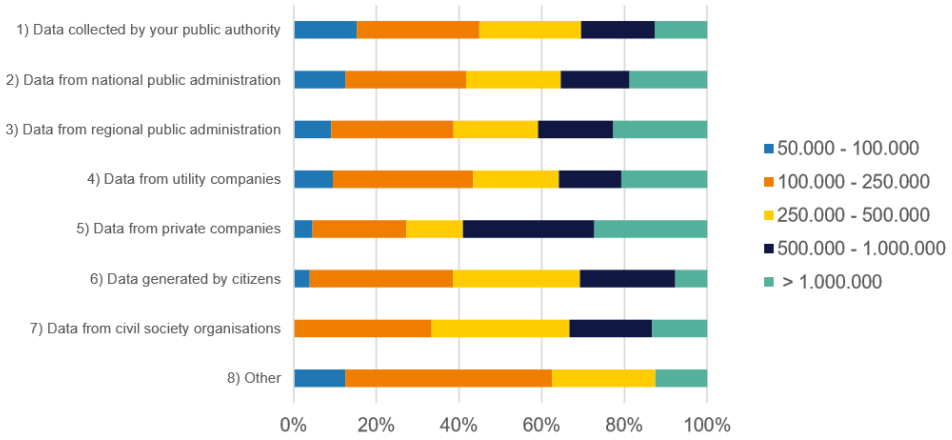

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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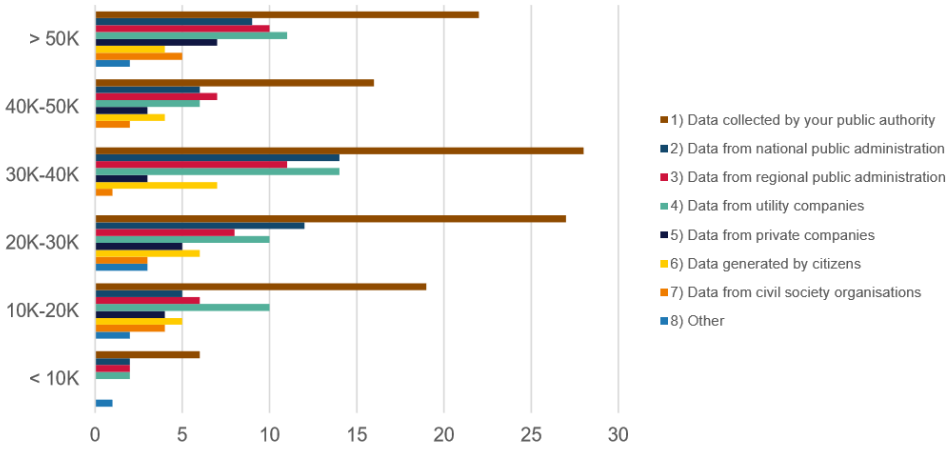
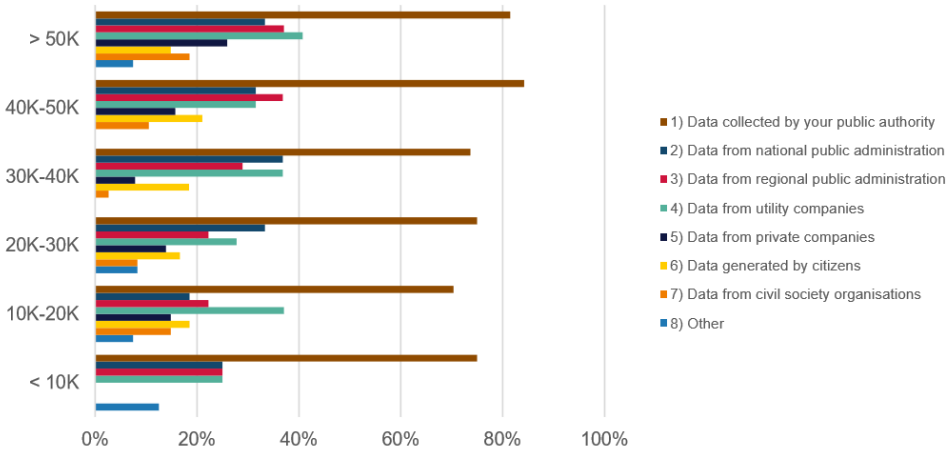


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
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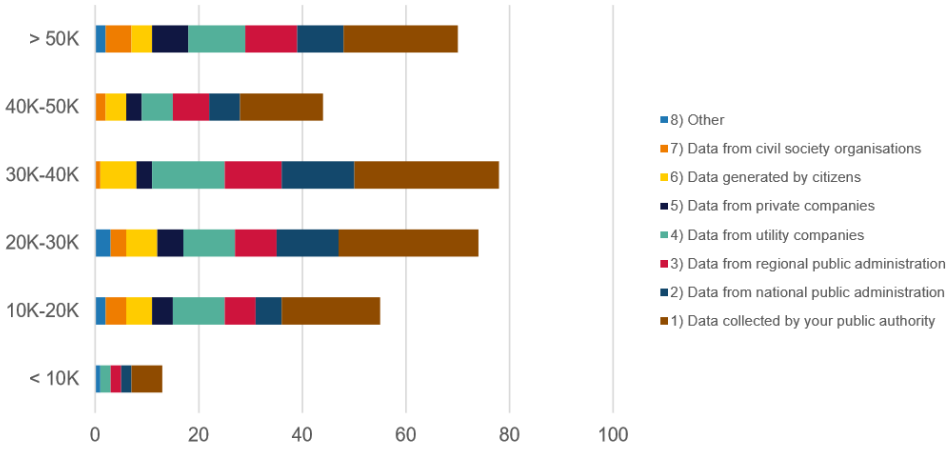
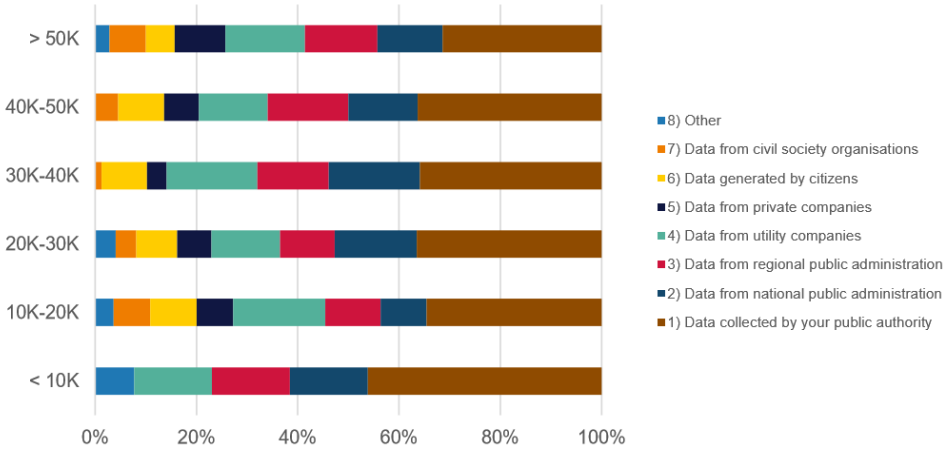


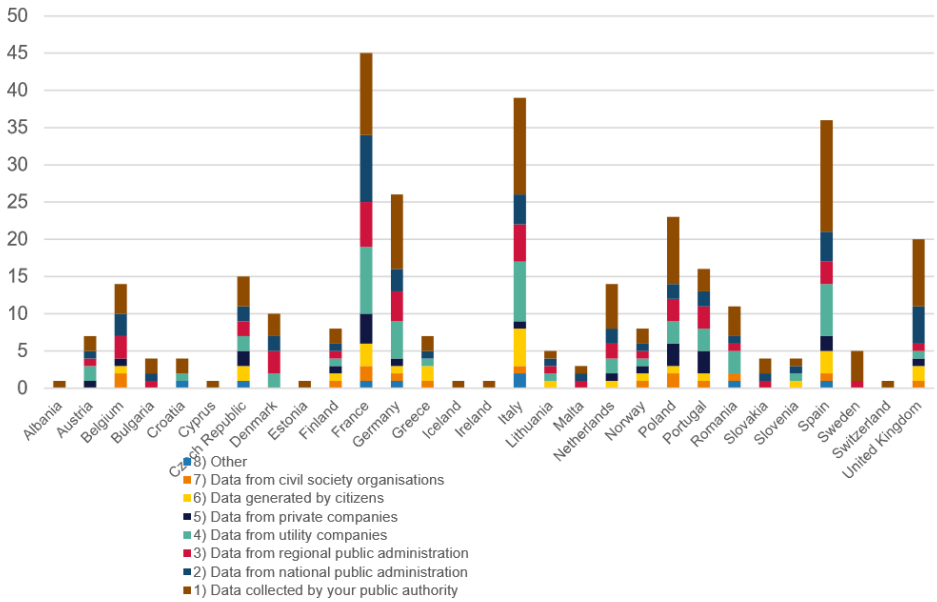
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



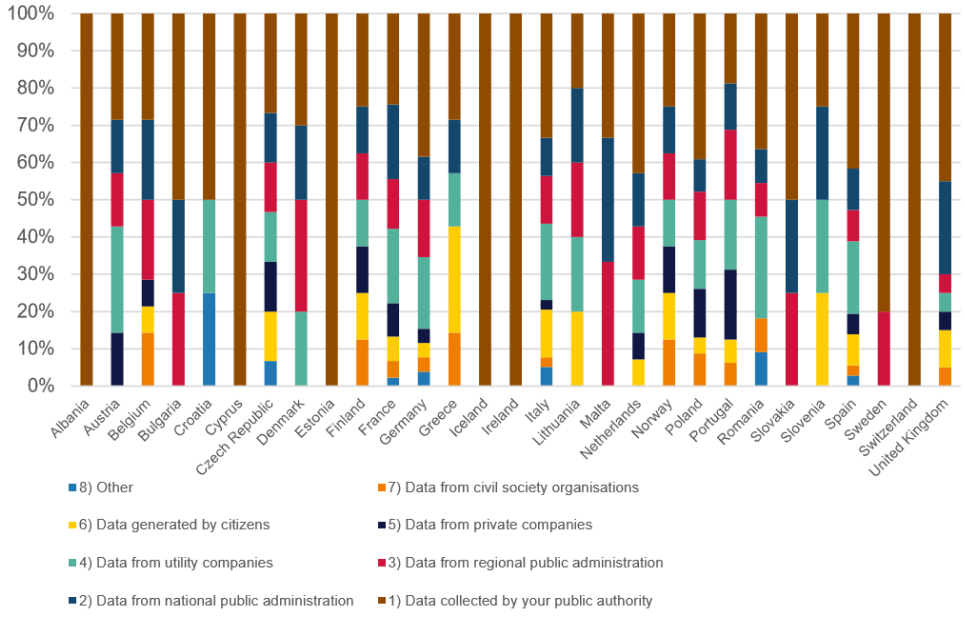
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

5.2.3 What types of data are integrated and managed in your Urban Data Platform(s)?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.28 Q_5.2.4 To what extent do different service areas collect and share data?

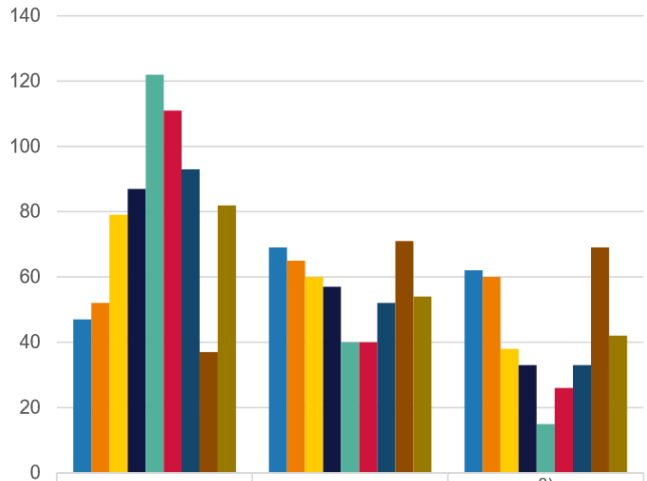
5.2.4 To what extent do different service areas collect and share data?:

ALL RESPONDENTS

Question typology: ***Matrix - Likert***

Number of analysed questionnaires: **246**

Number of cities respond to this specific question: **178 (72%)**



	1) Rarely	2) Often	3) Consistently
General Services / Administration	47	69	62
Building & Spatial Planning	52	65	60
Culture & Leisure	79	60	38
Education	87	57	33
Healthcare	122	40	15
Order & Safety	111	40	26
Social & Welfare Services	93	52	33
Transport & Mobility	37	71	69
Utilities	82	54	42

5.2.4 To what extent do different service areas collect and share data?:

ALL RESPONDENTS

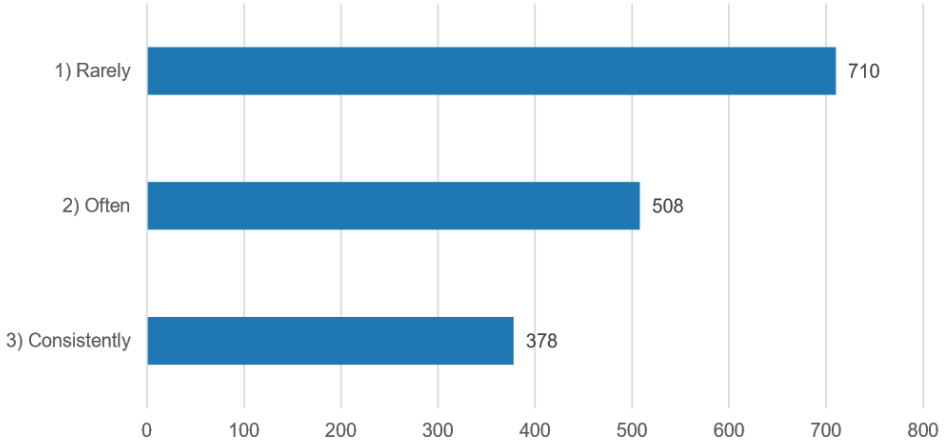
Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**178 (72%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Rarely	710	44%
2) Often	508	32%
3) Consistently	378	24%

* The Count is given by the sum of all the selected rows within the same matrix column

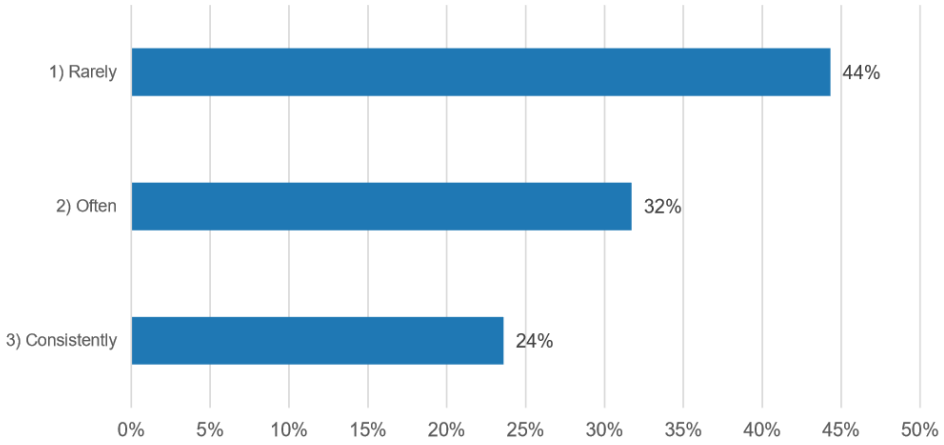
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.4 To what extent do different service areas collect and share data?:



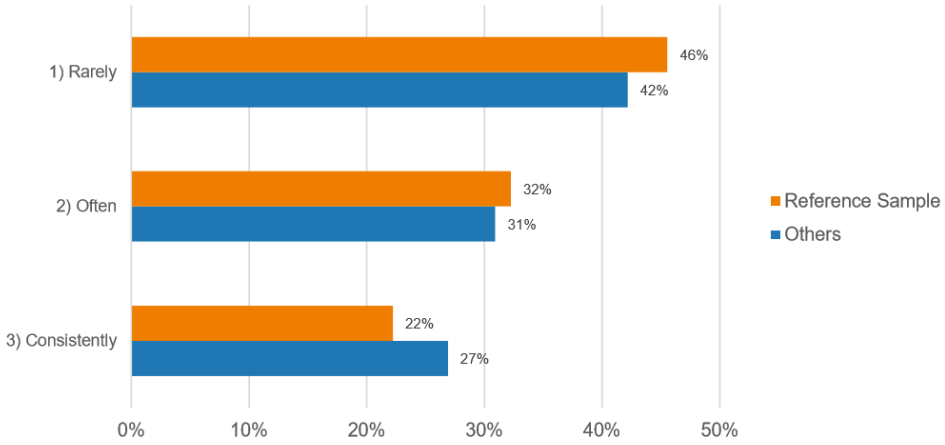
Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	-	Count

5.2.4 To what extent do different service areas collect and share data?:



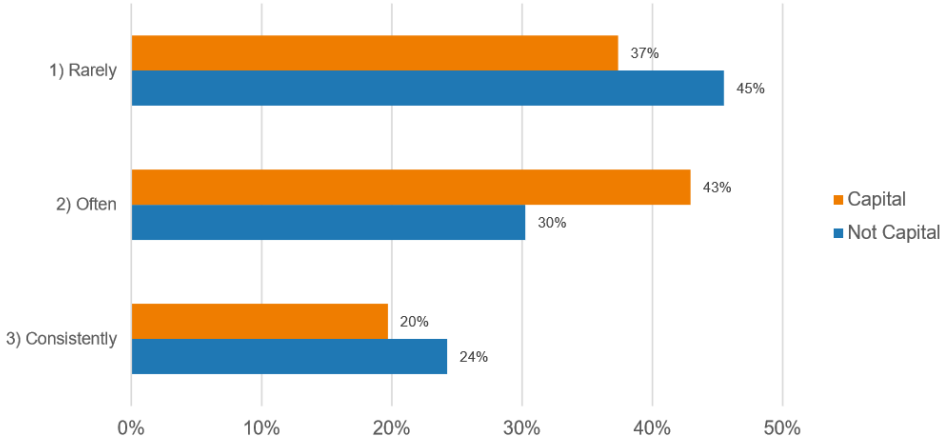
Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	-	Percentage

5.2.4 To what extent do different service areas collect and share data?:



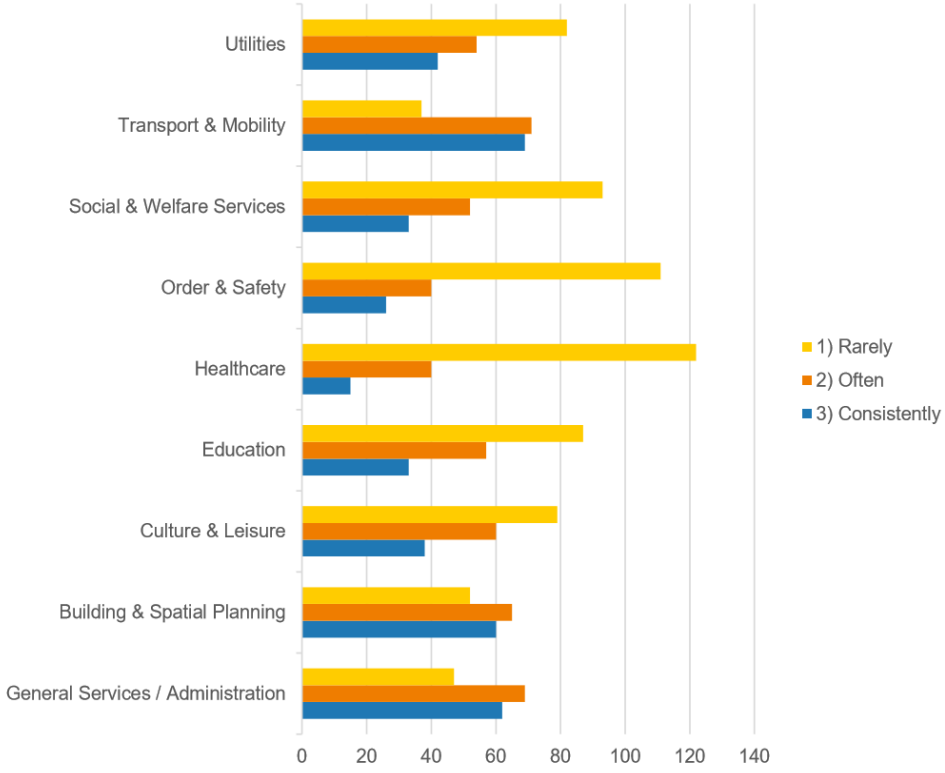
Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Reference Sample	Percentage

5.2.4 To what extent do different service areas collect and share data?:



Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Capital cities	Percentage

5.2.4 To what extent do different service areas collect and share data?:



Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Matrix	Count

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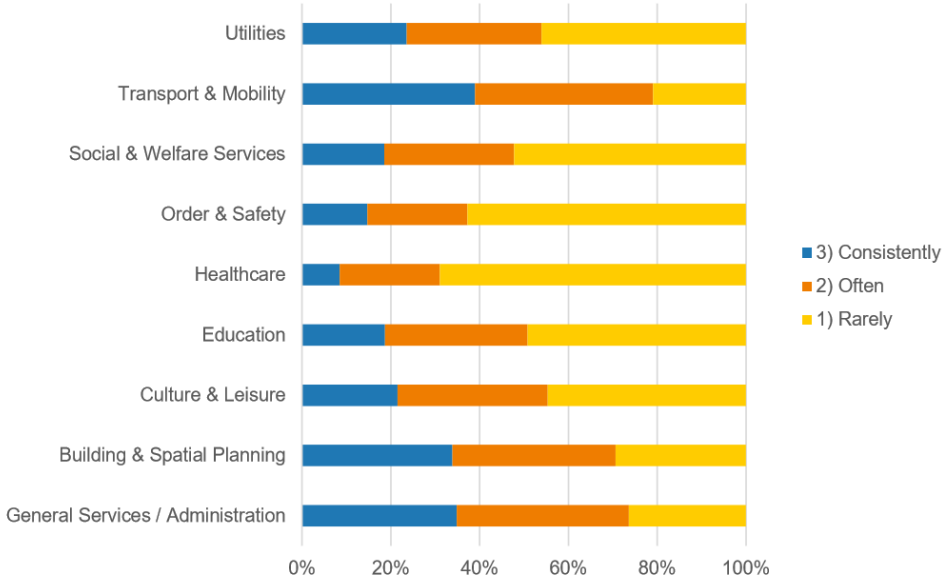

Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Matrix	Percentage

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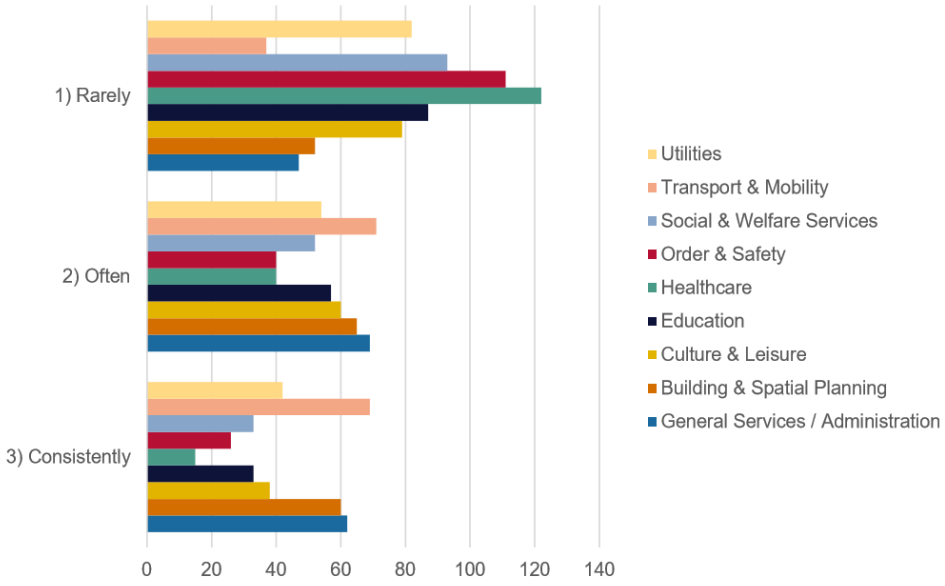
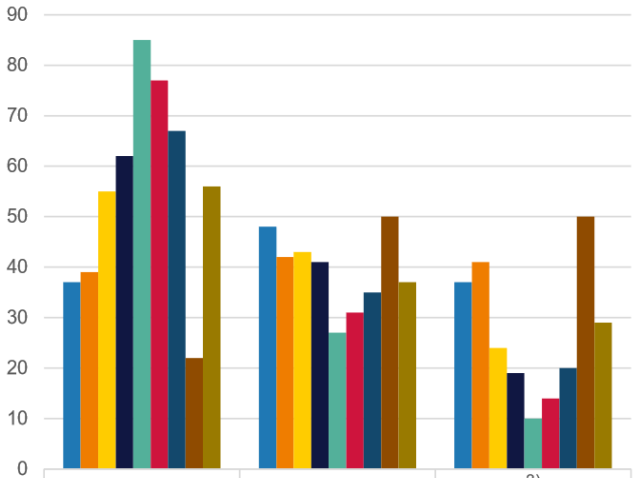


Question typology	Data	Cluster	Value
Matrix - Likert	All Respondents	Matrix	Count

5.2.4 To what extent do different service areas collect and share data?:

REFERENCE SAMPLE

Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**122 (79%)**



	1) Rarely	2) Often	3) Consistently
General Services / Administration	37	48	37
Building & Spatial Planning	39	42	41
Culture & Leisure	55	43	24
Education	62	41	19
Healthcare	85	27	10
Order & Safety	77	31	14
Social & Welfare Services	67	35	20
Transport & Mobility	22	50	50
Utilities	56	37	29

5.2.4 To what extent do different service areas collect and share data?:

REFERENCE SAMPLE

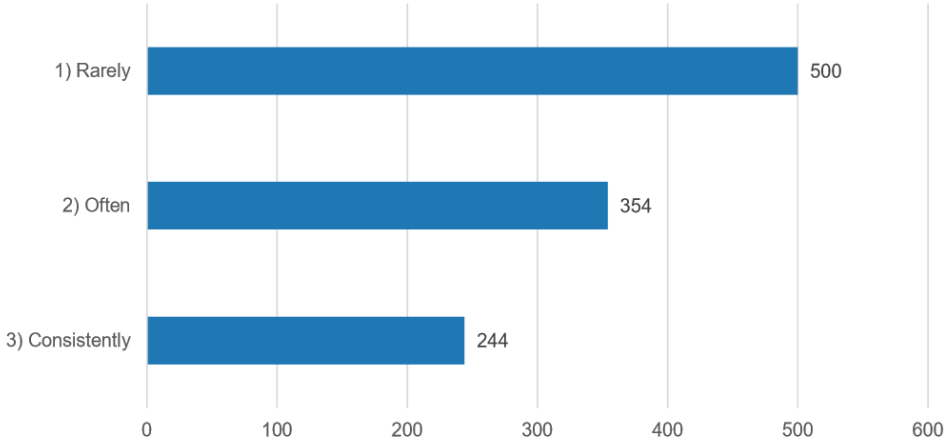
Question typology:	***Matrix - Likert***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**122 (79%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Rarely	500	46%
2) Often	354	32%
3) Consistently	244	22%

* The Count is given by the sum of all the selected rows within the same matrix column

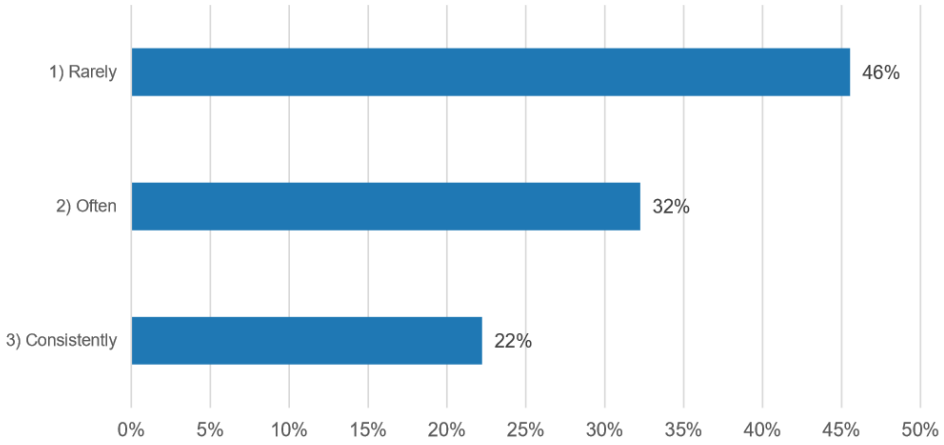
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.4 To what extent do different service areas collect and share data?:



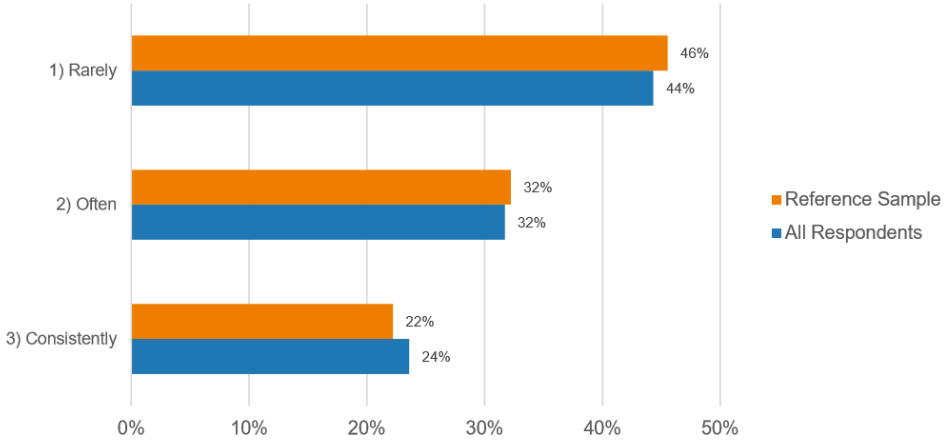
Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	-	Count

5.2.4 To what extent do different service areas collect and share data?:



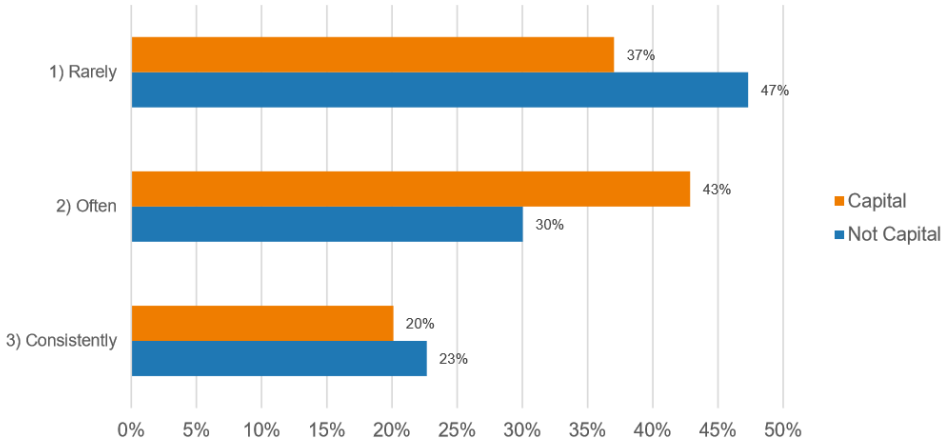
Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	-	Percentage

5.2.4 To what extent do different service areas collect and share data?:



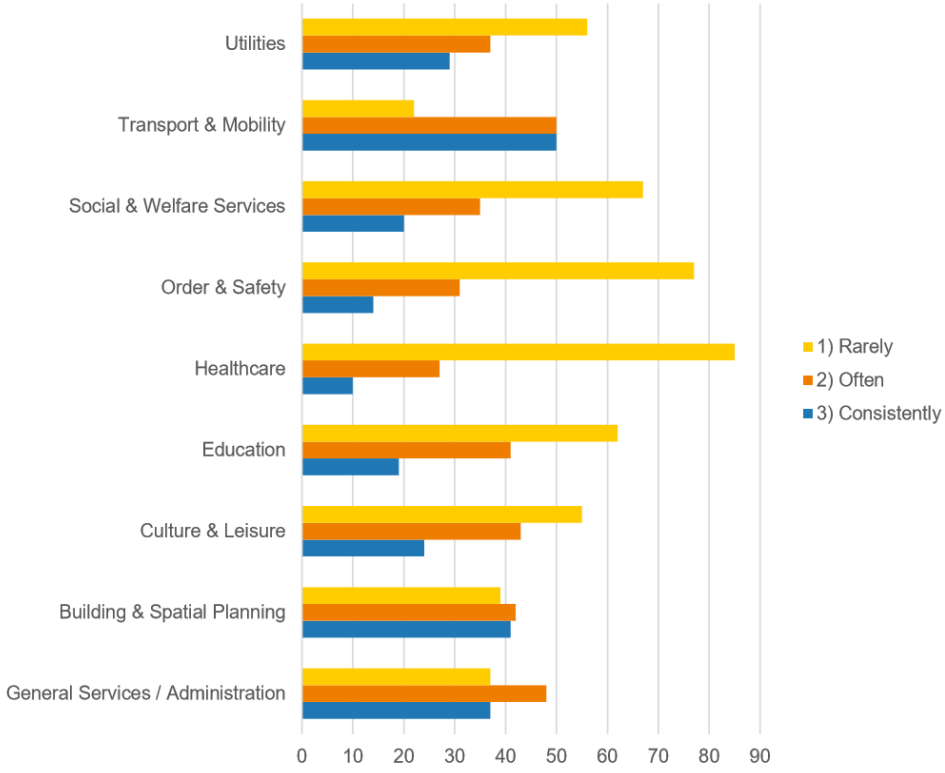
Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Reference Sample	Percentage

5.2.4 To what extent do different service areas collect and share data?:



Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Capital cities	Percentage

5.2.4 To what extent do different service areas collect and share data?:



Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Matrix	Count

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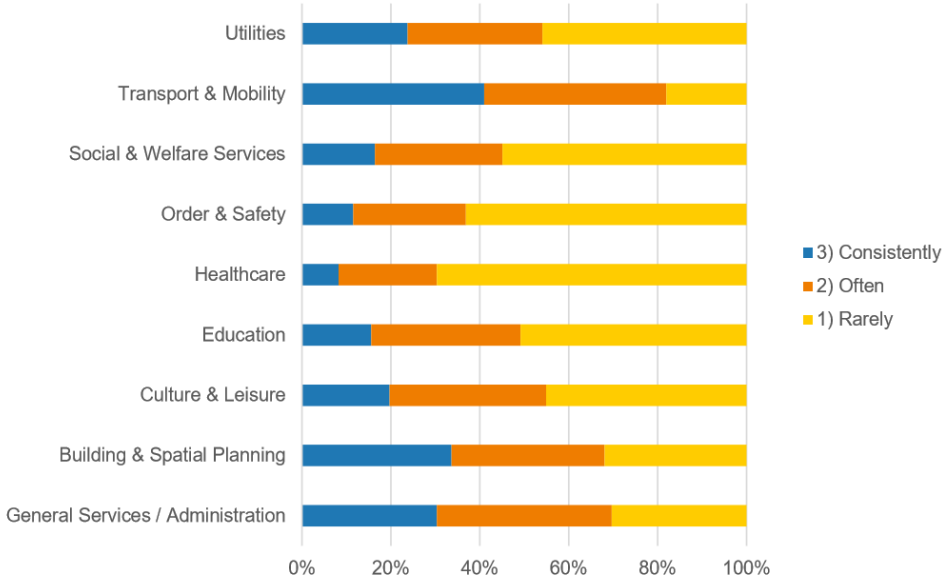

Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Matrix	Percentage

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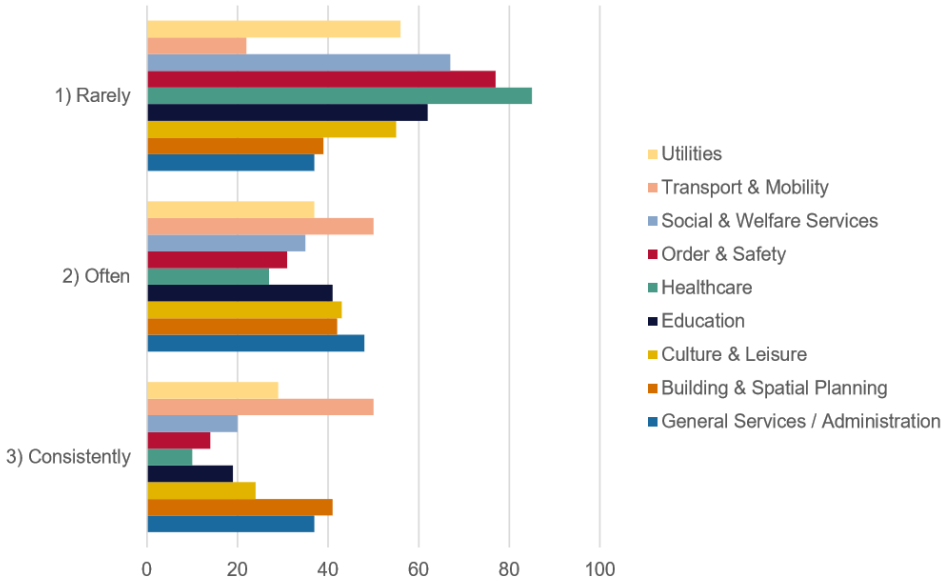


Question typology	Data	Cluster	Value
Matrix - Likert	Reference Sample	Matrix	Count

3.29 Q_5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?

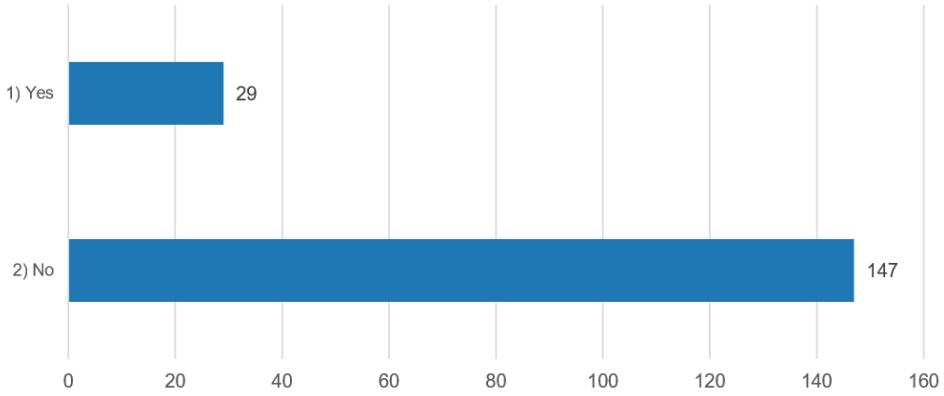
ALL RESPONDENTS

Question type:	***Single choice - Binary***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**176 (72%)**

Answer	*Count*	*Percentage**
1) Yes	29	16%
2) No	147	84%

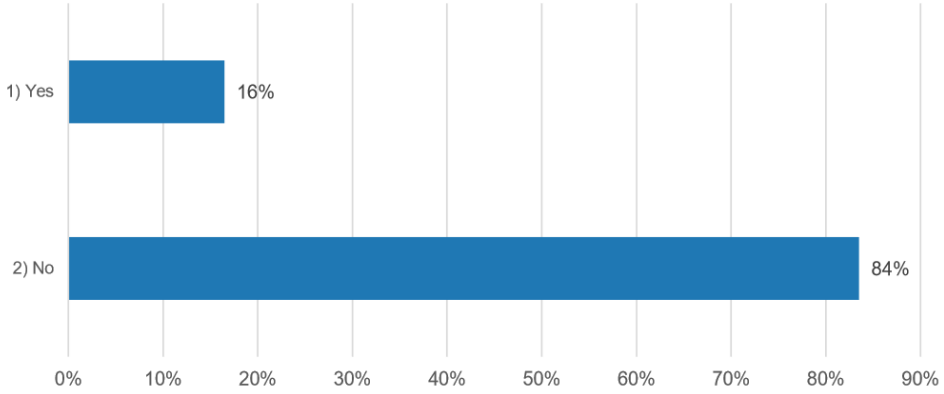
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Count

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Percentage

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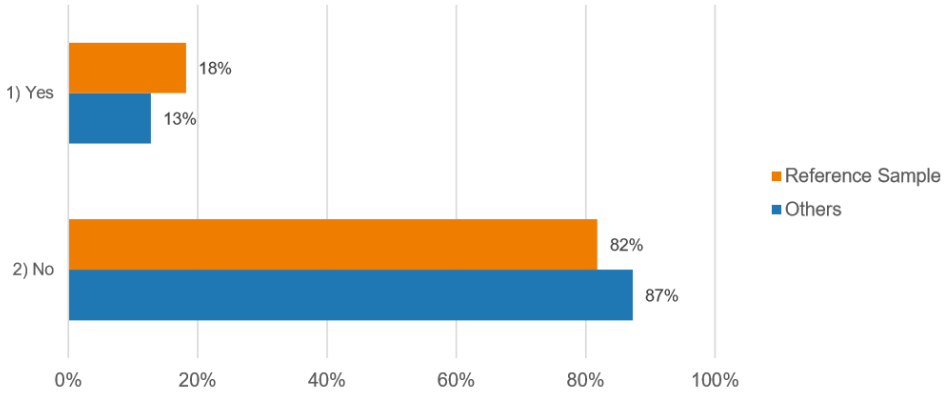

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Reference Sample	Percentage

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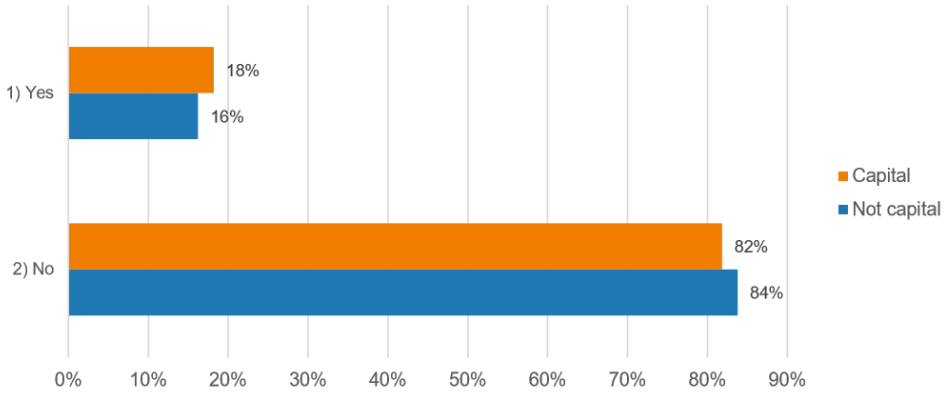

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Capital cities	Percentage

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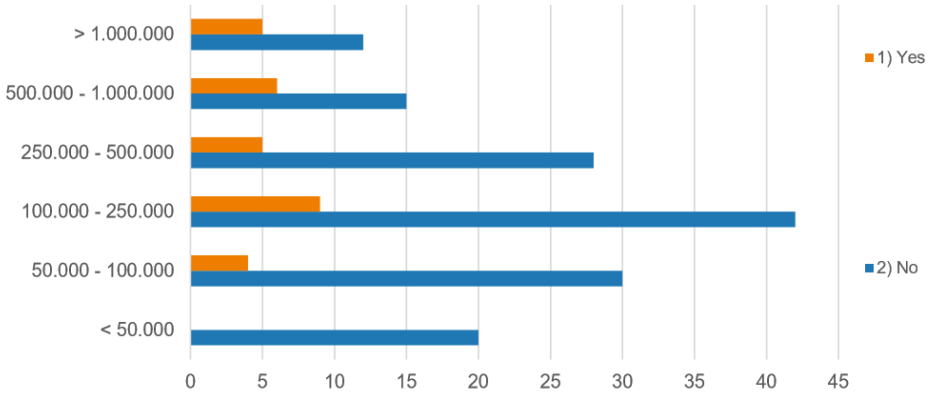

Question type	Data sample	Cluster	Value
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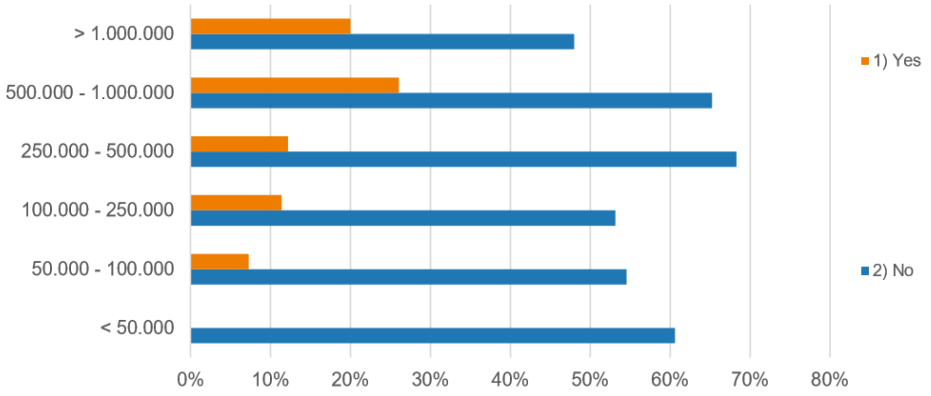

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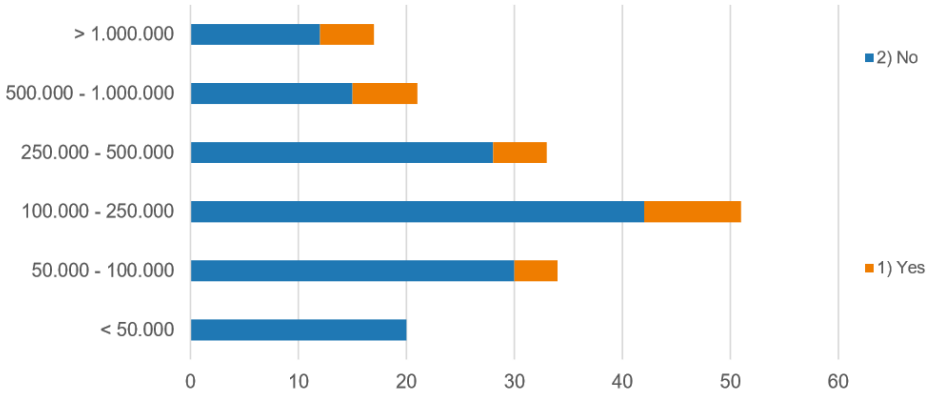

Question type	Data sample	Cluster	Value
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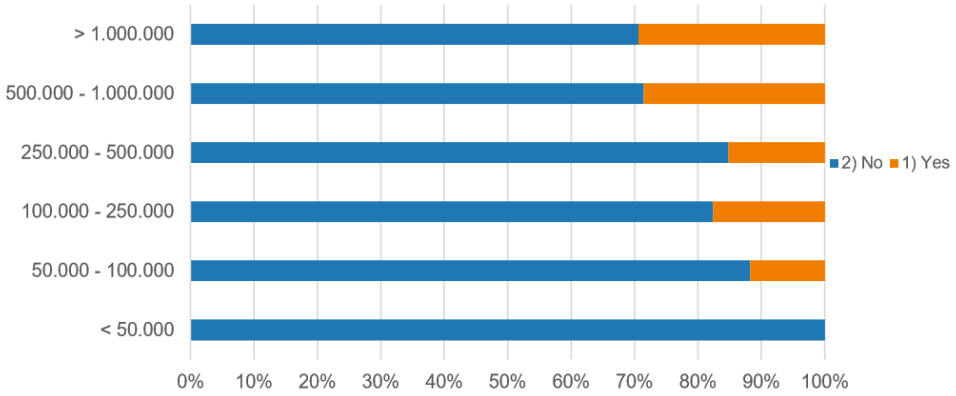

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Percentage

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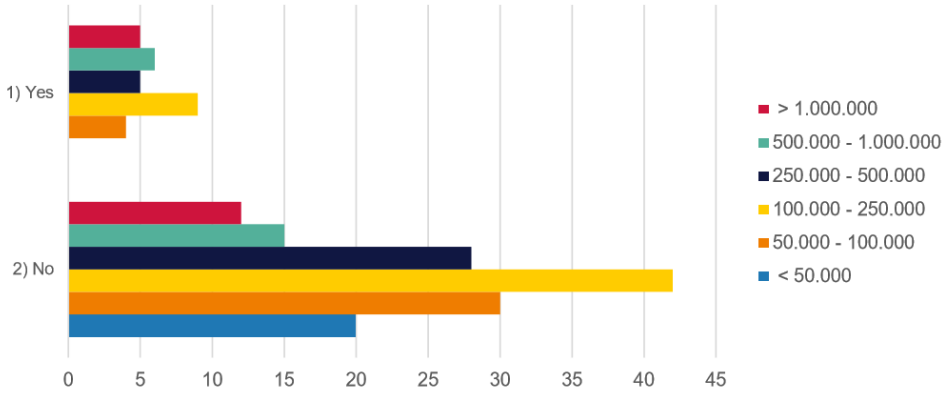

Question type	Data sample	Cluster	Value
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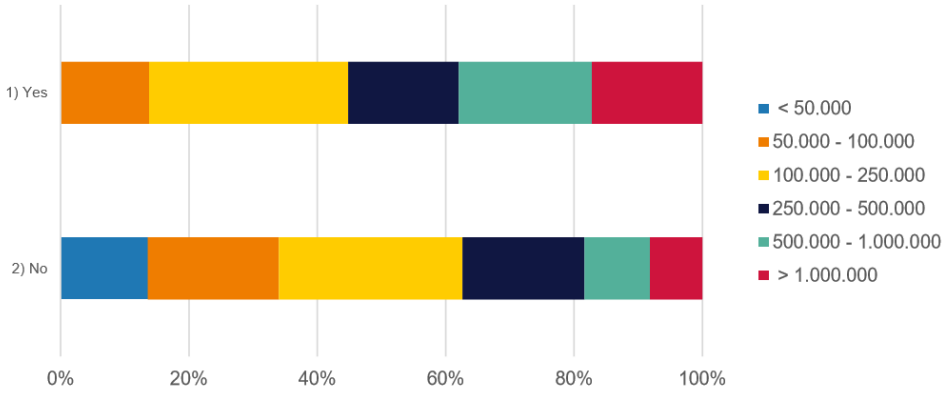

Question type	Data sample	Cluster	Value
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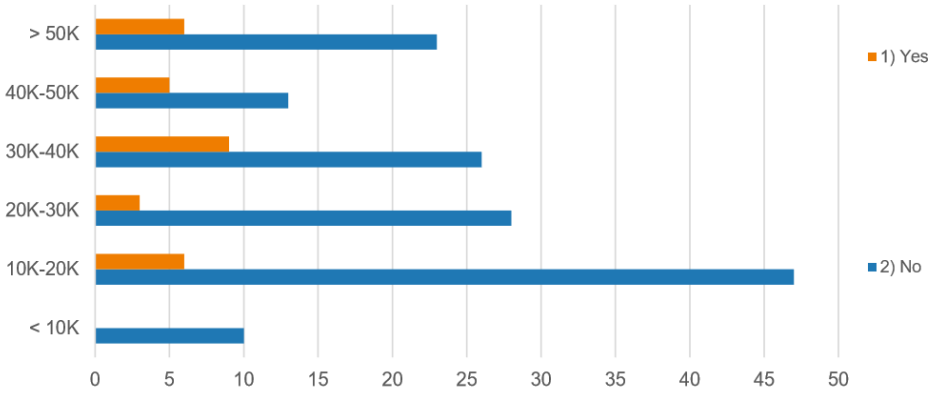

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Count

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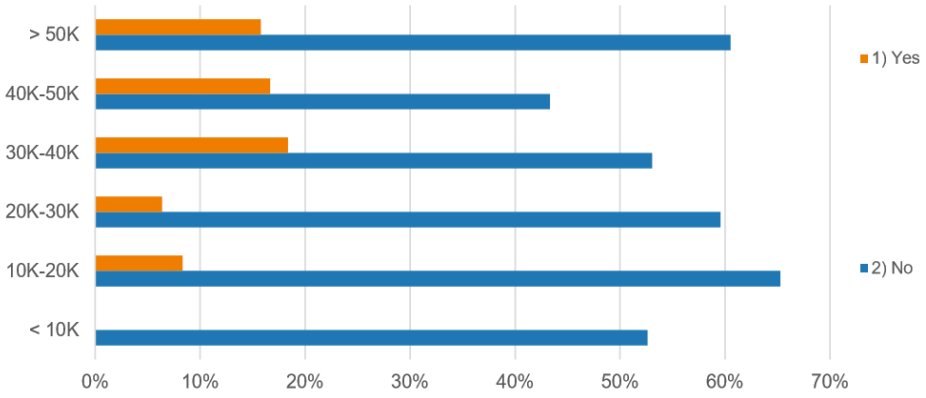

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Percentage

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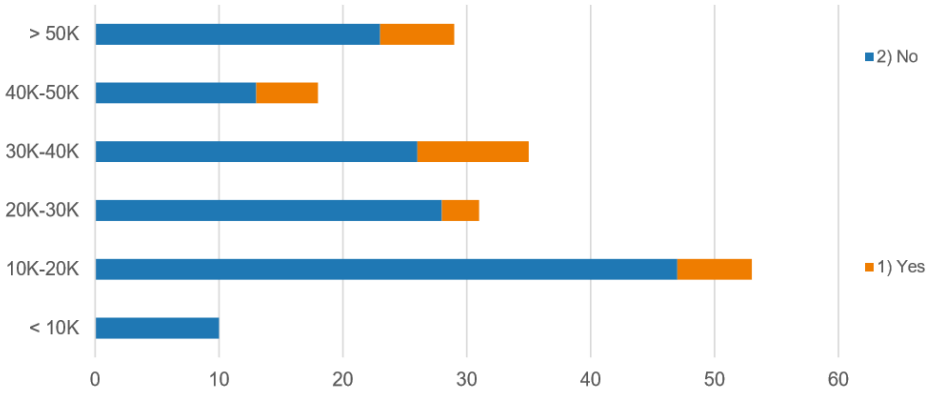

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Count

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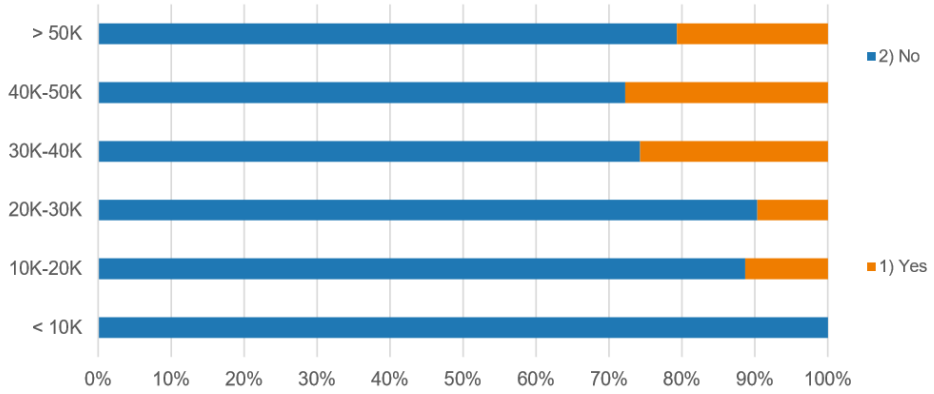
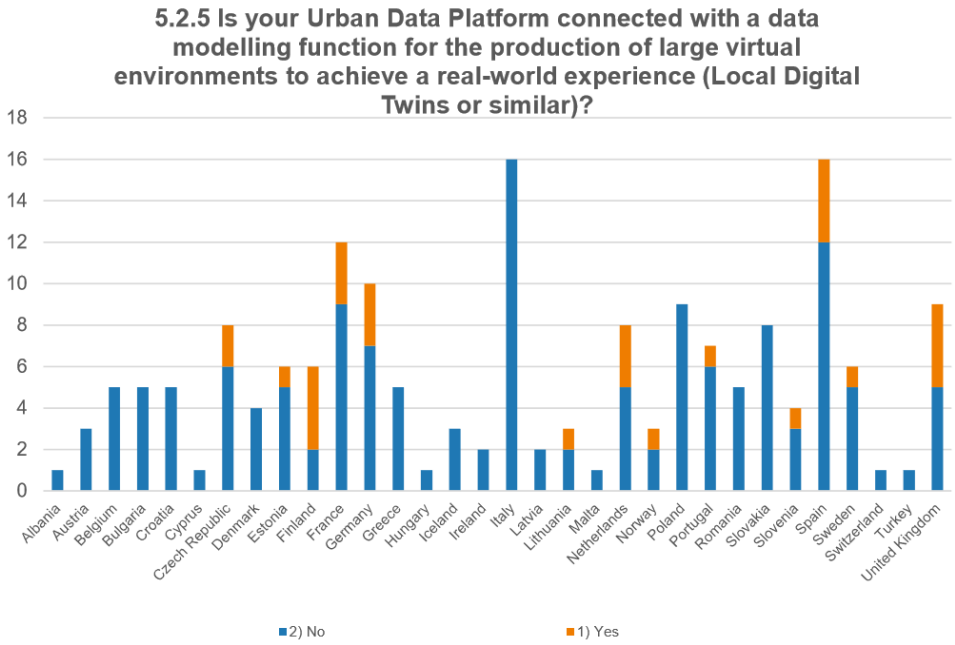
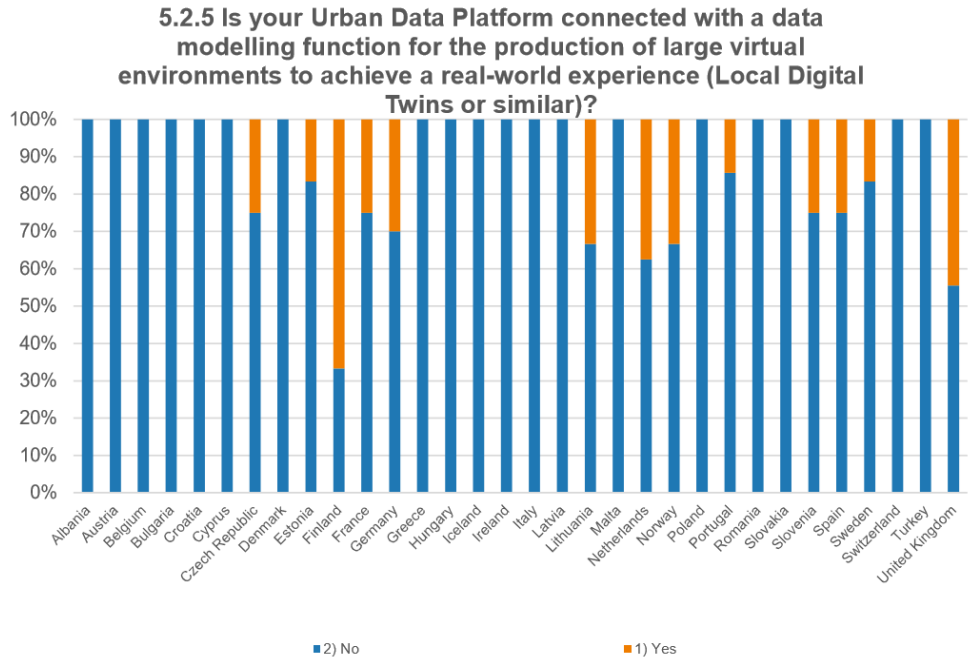


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Percentage

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?

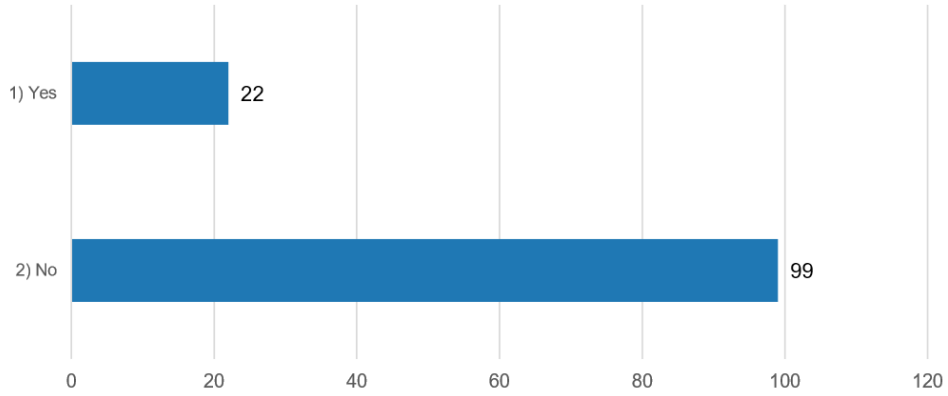
REFERENCE SAMPLE

Question type:	***Single choice - Binary***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**121 (78%)**

Answer	*Count*	*Percentage**
1) Yes	22	18%
2) No	99	82%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	-	Count

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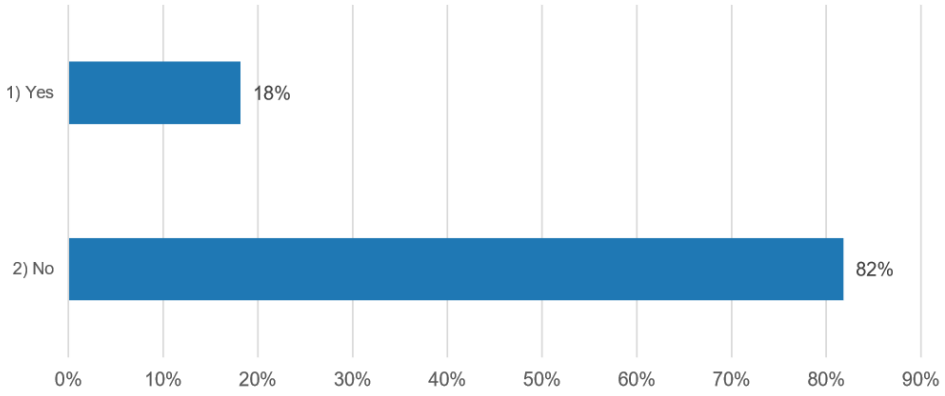
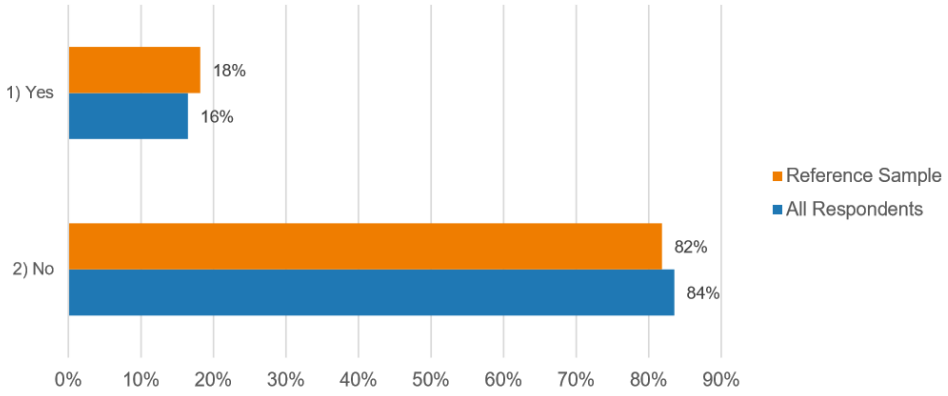


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	-	Percentage

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?



Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Reference Sample	Percentage

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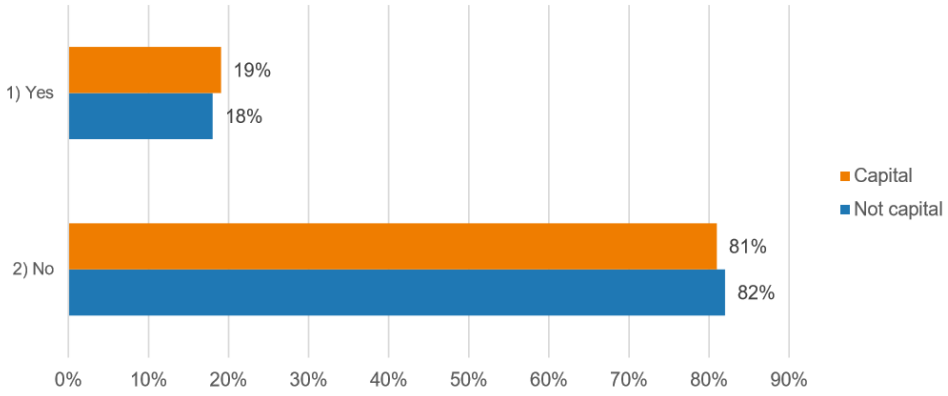
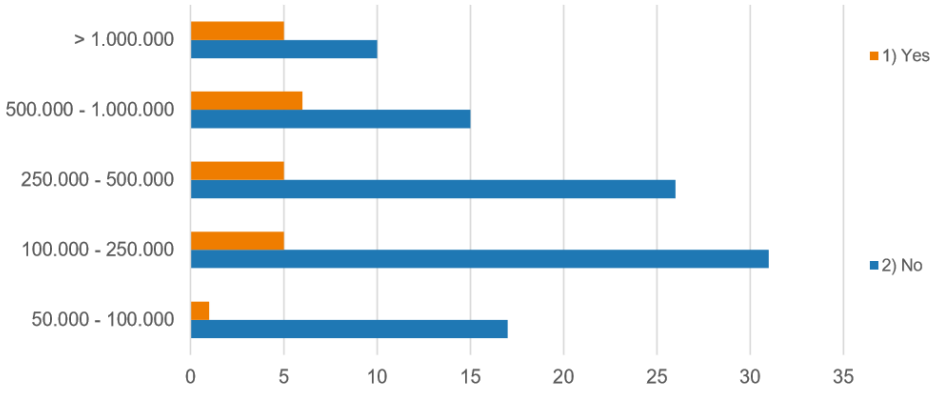


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Capital cities	Percentage

5.2.5 Is your Urban Data Platform connected with a data modelling function for the production of large virtual environments to achieve a real-world experience (Local Digital Twins or similar)?



Question type	Data sample	Cluster	Value
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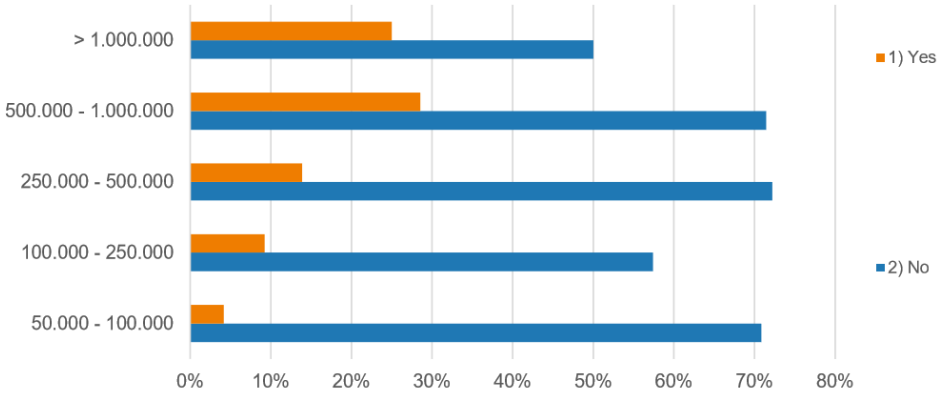

Question type	Data sample	Cluster	Value
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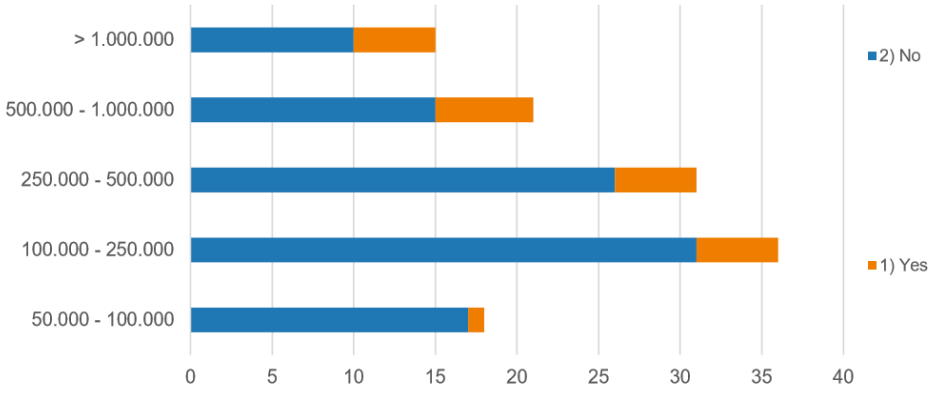

Question type	Data sample	Cluster	Value
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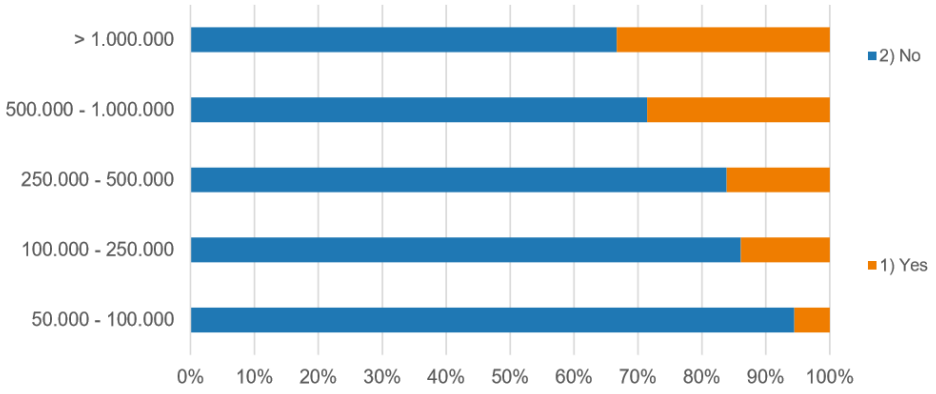

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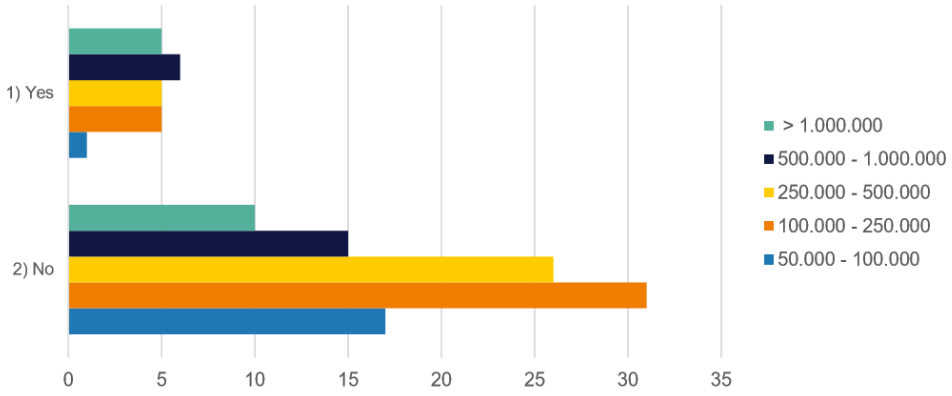

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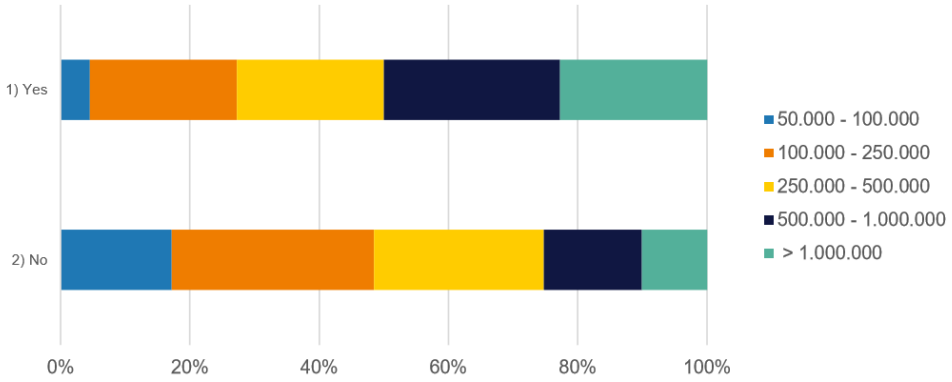

Question type	Data sample	Cluster	Value
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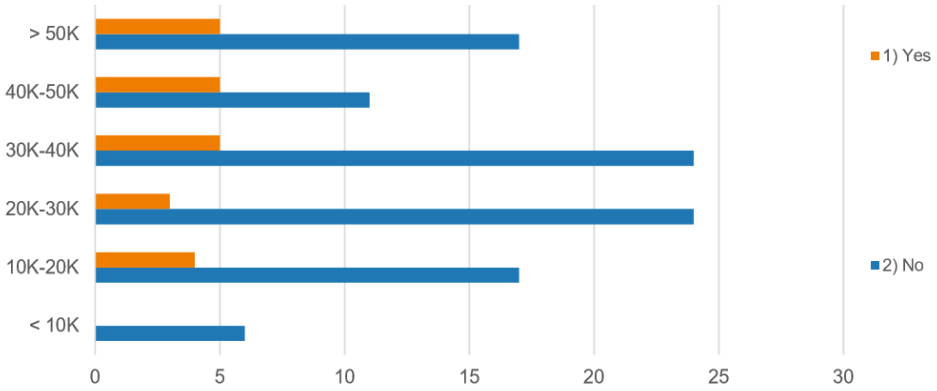

Question type	Data sample	Cluster	Value
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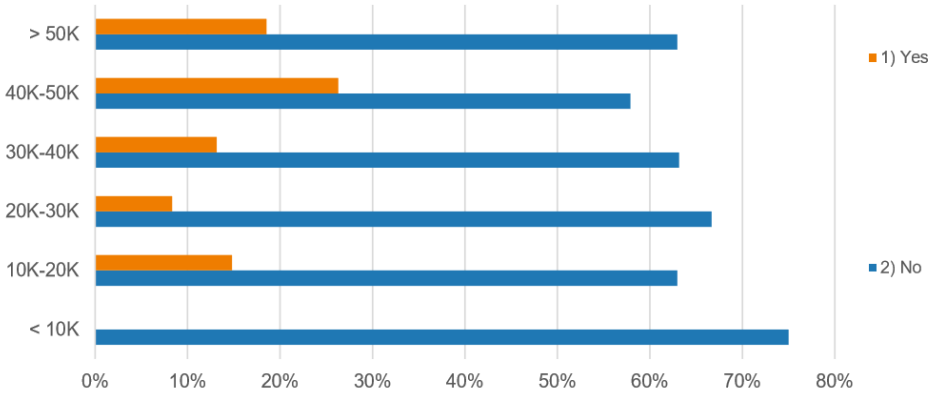

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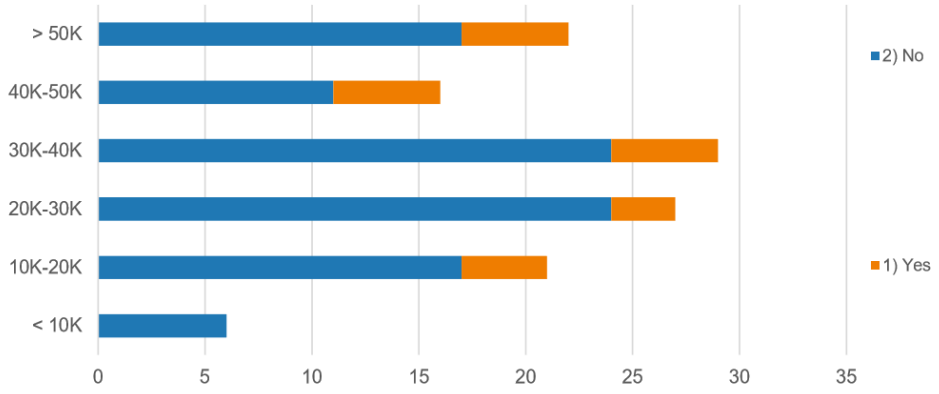

Question type	Data sample	Cluster	Value
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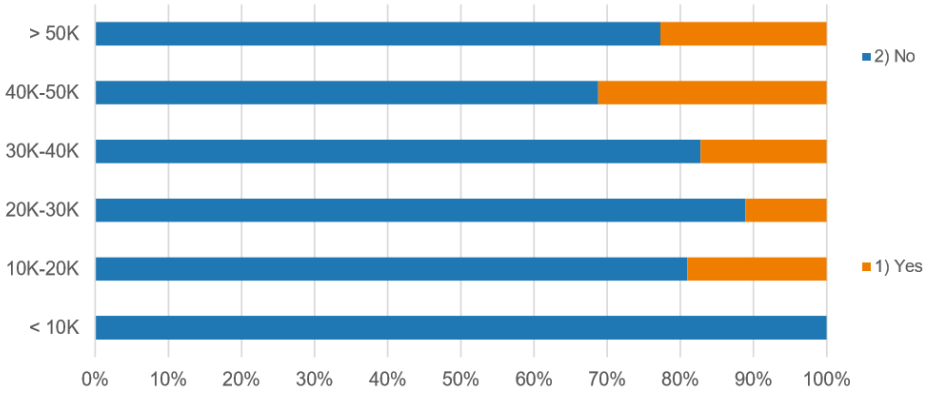

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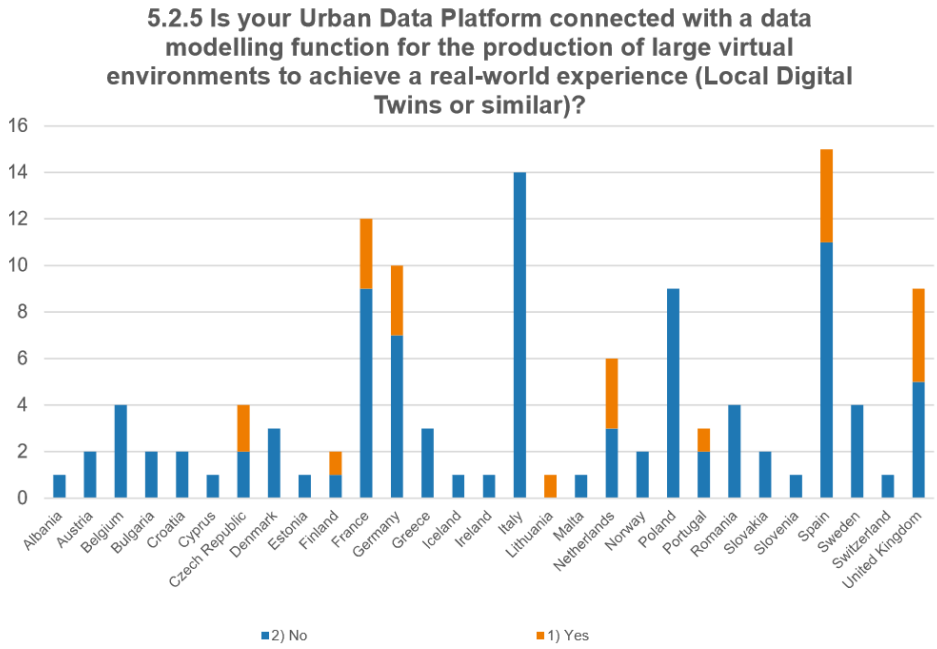

Question type	Data sample	Cluster	Value
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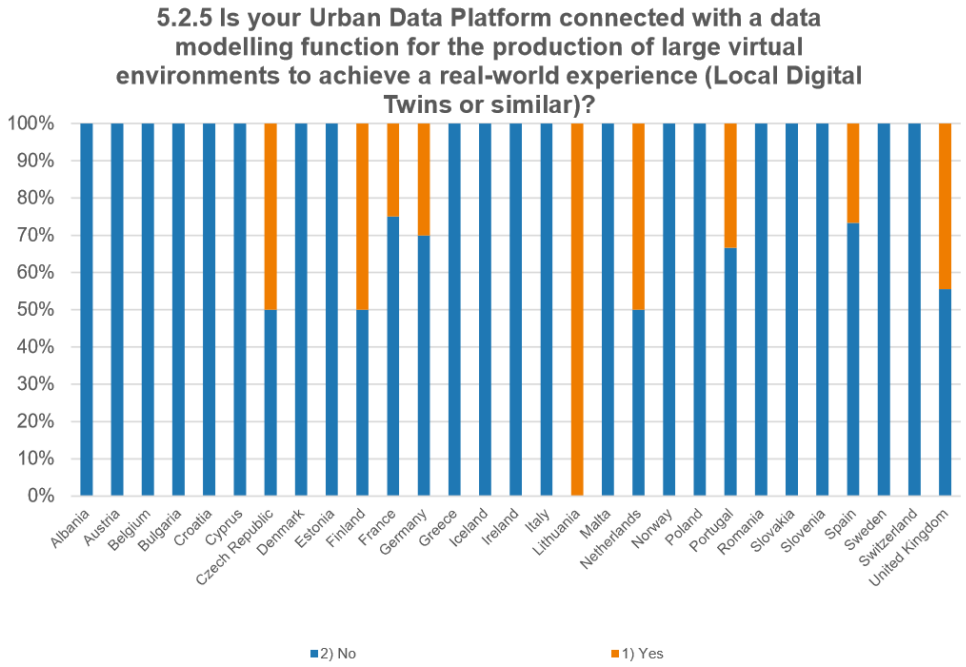


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Percentage

3.30 Q_5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?

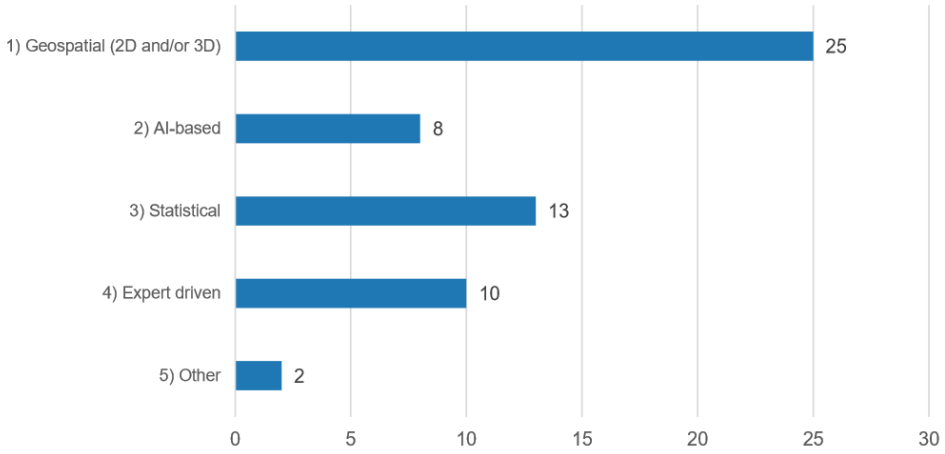
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **29 (12%)**

Answer	*Count*	*Percentage**
1) Geospatial (2D and/or 3D)	25	86%
2) AI-based	8	28%
3) Statistical	13	45%
4) Expert driven	10	34%
5) Other	2	7%

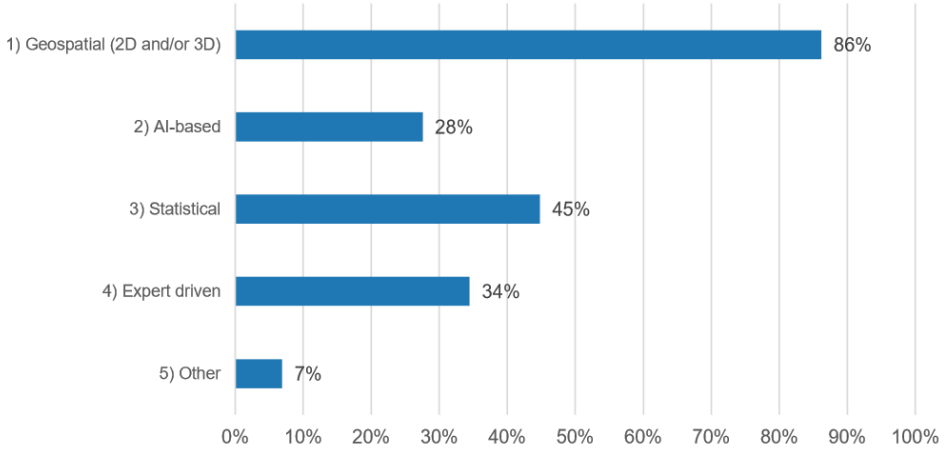
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



Question type	Data sample	Cluster	Value
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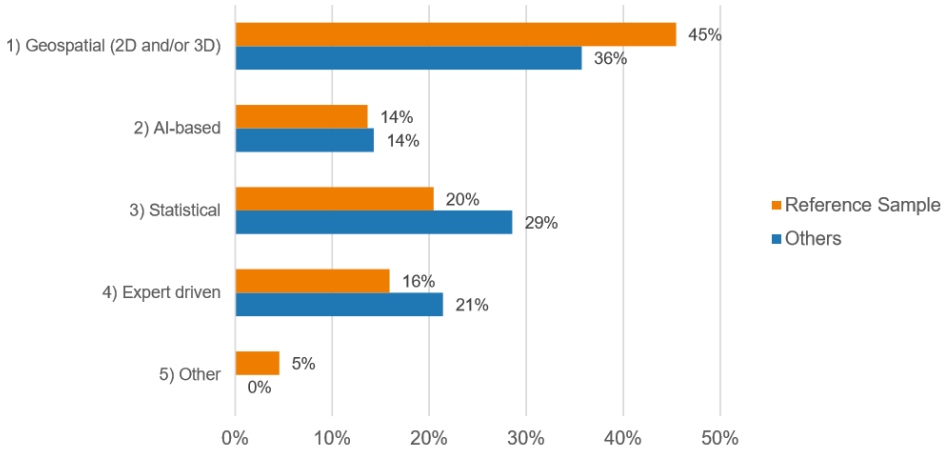

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

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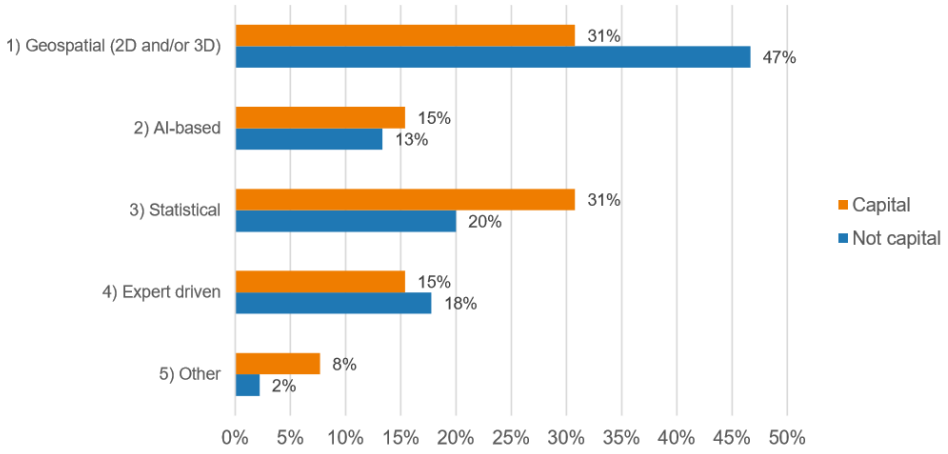

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

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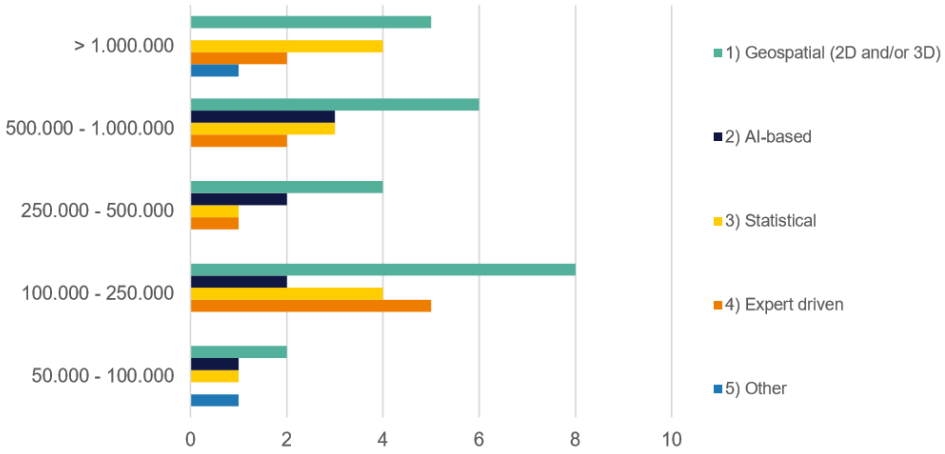

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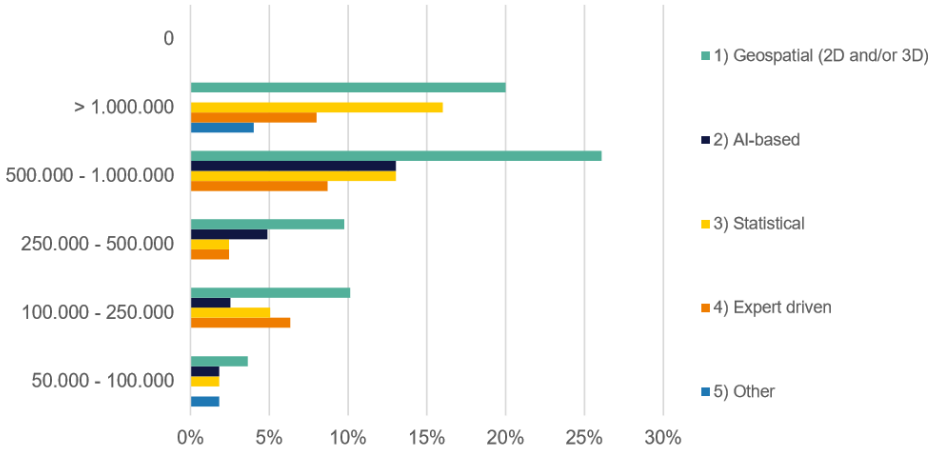

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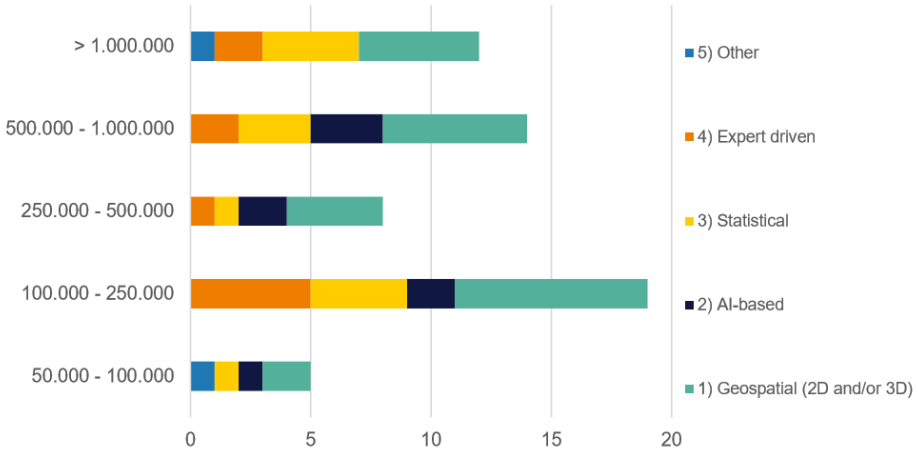

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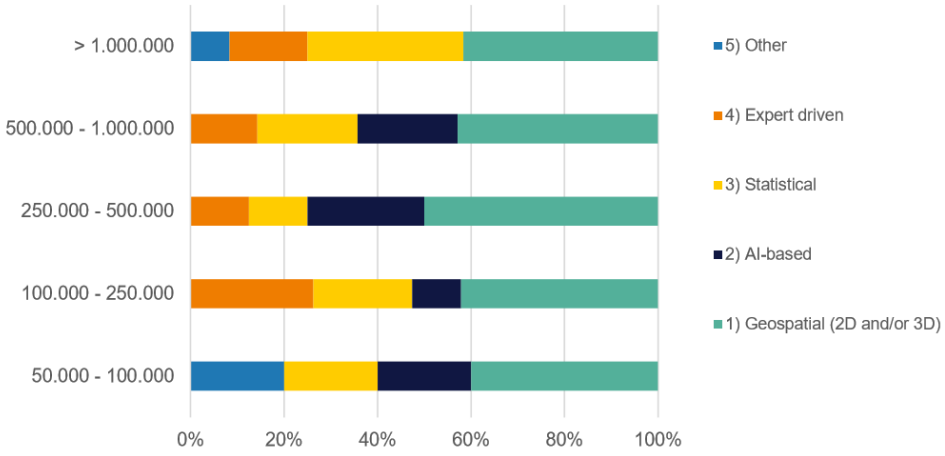

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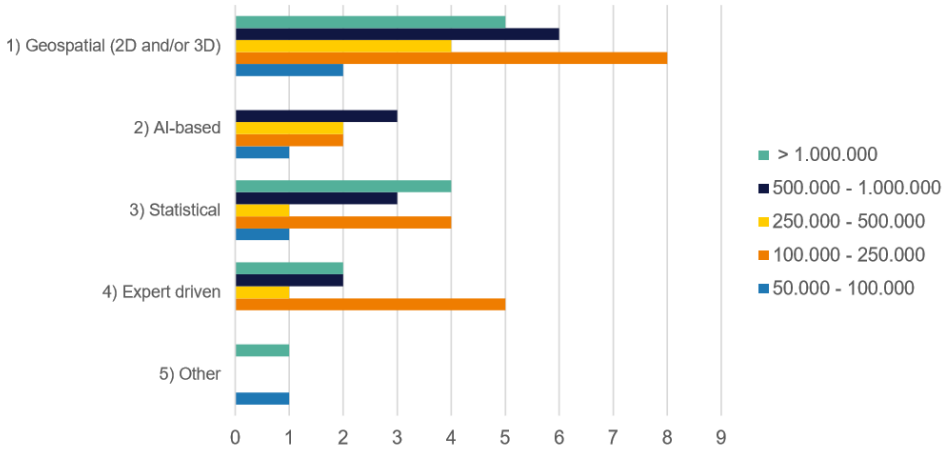

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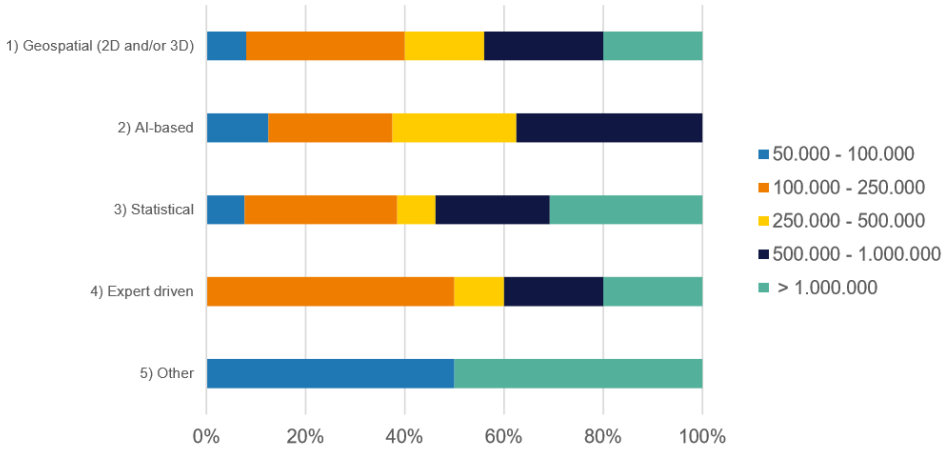

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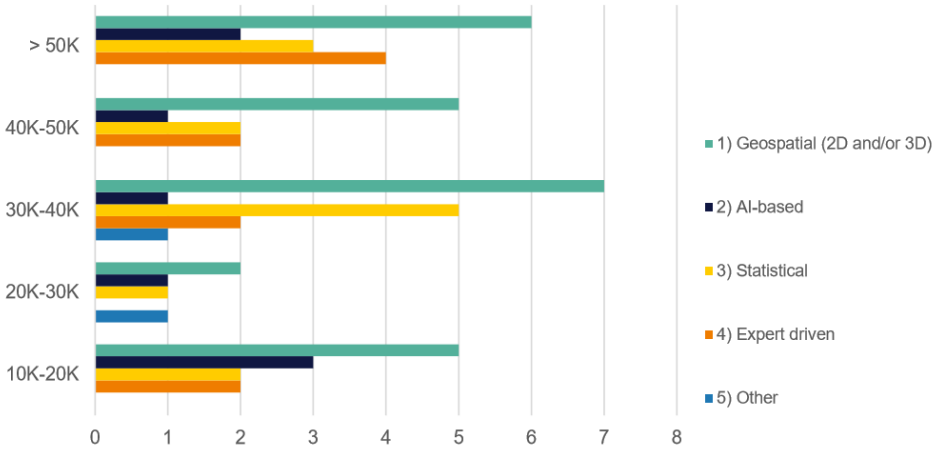

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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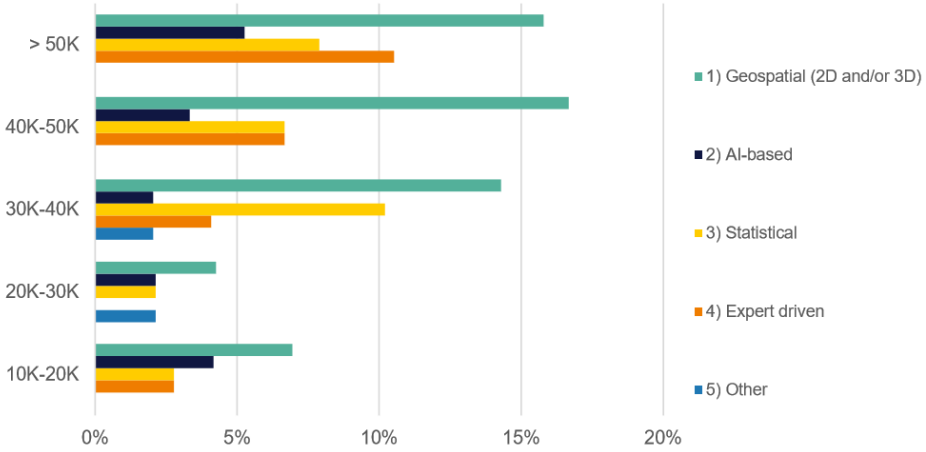

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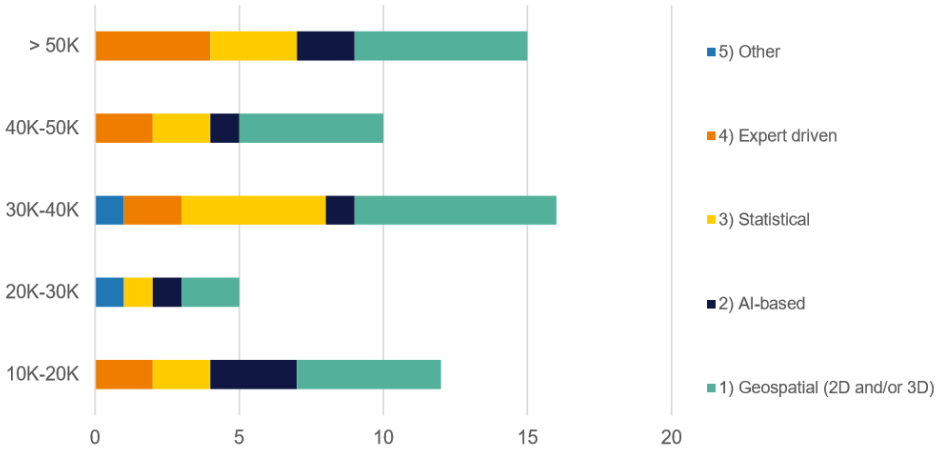

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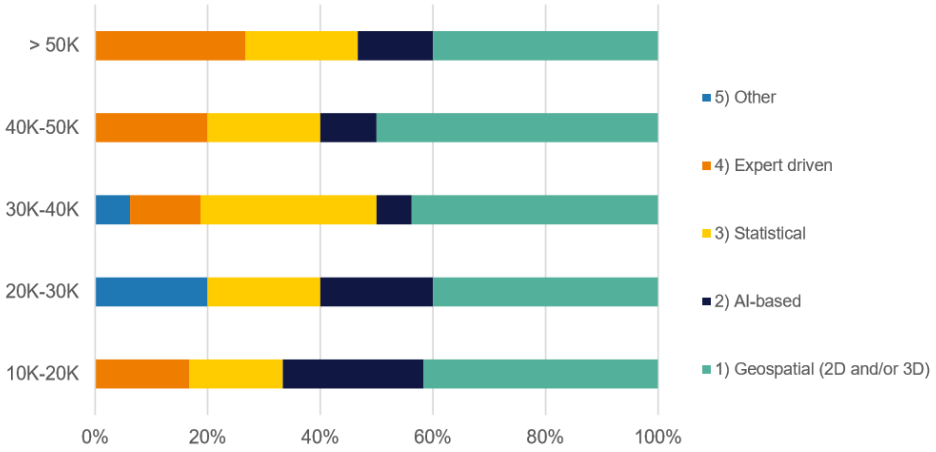

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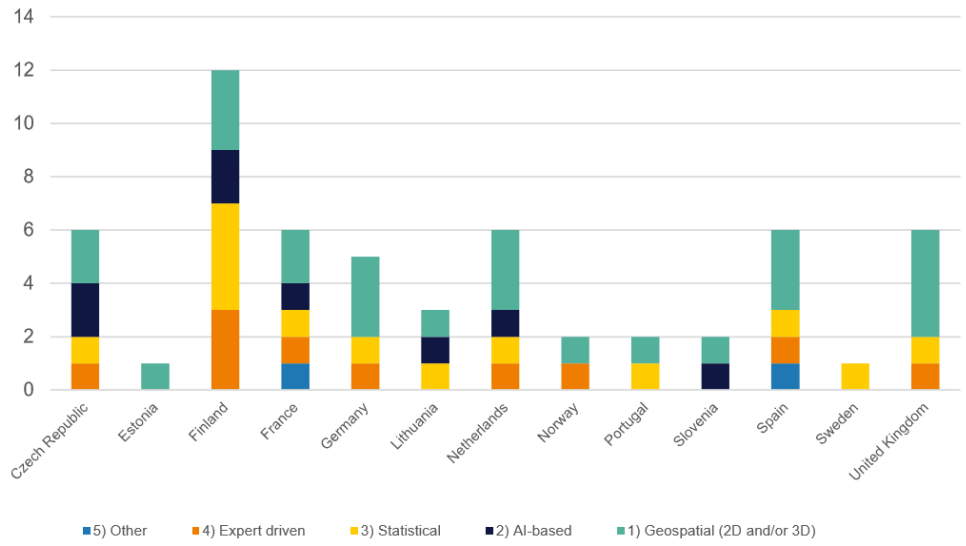

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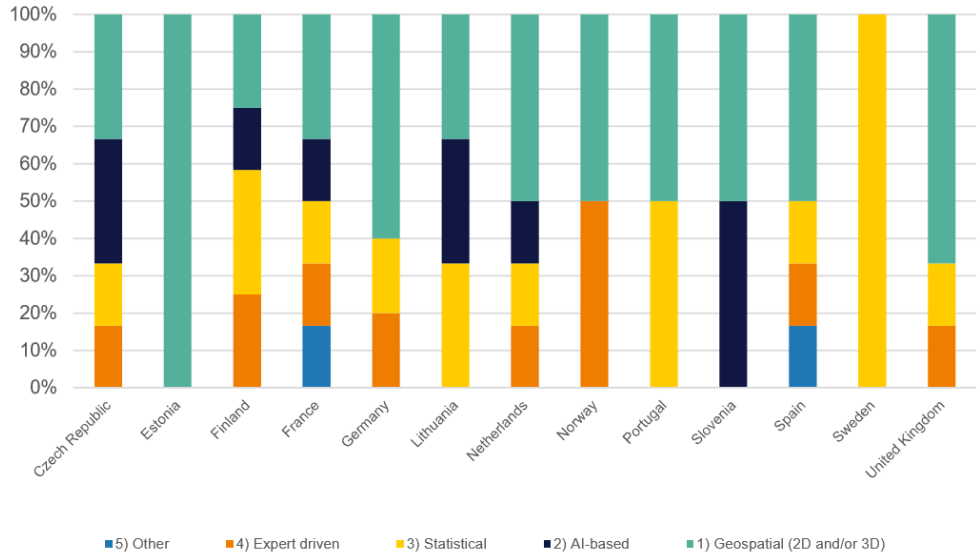


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?

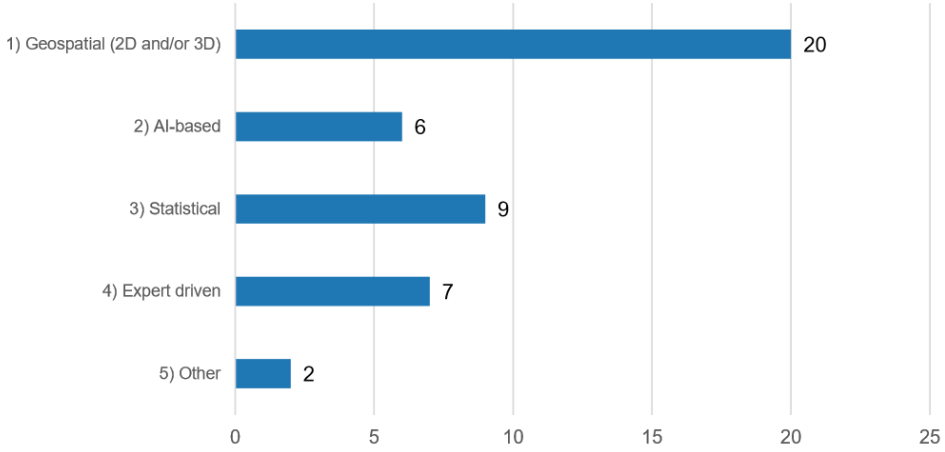
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **22 (14%)**

Answer	*Count*	*Percentage**
1) Geospatial (2D and/or 3D)	20	91%
2) AI-based	6	27%
3) Statistical	9	41%
4) Expert driven	7	32%
5) Other	2	9%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



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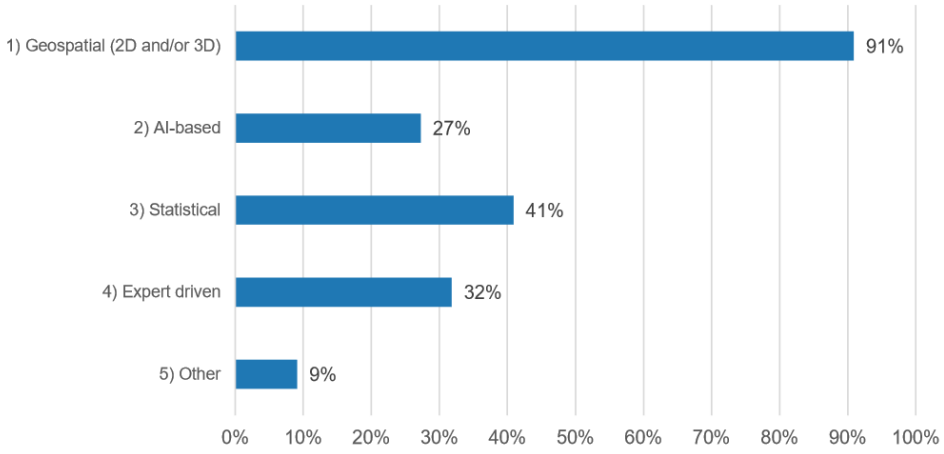

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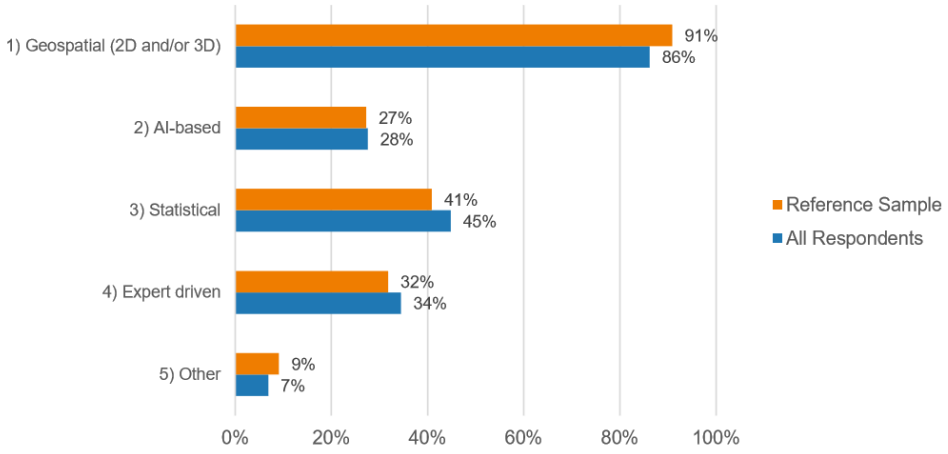

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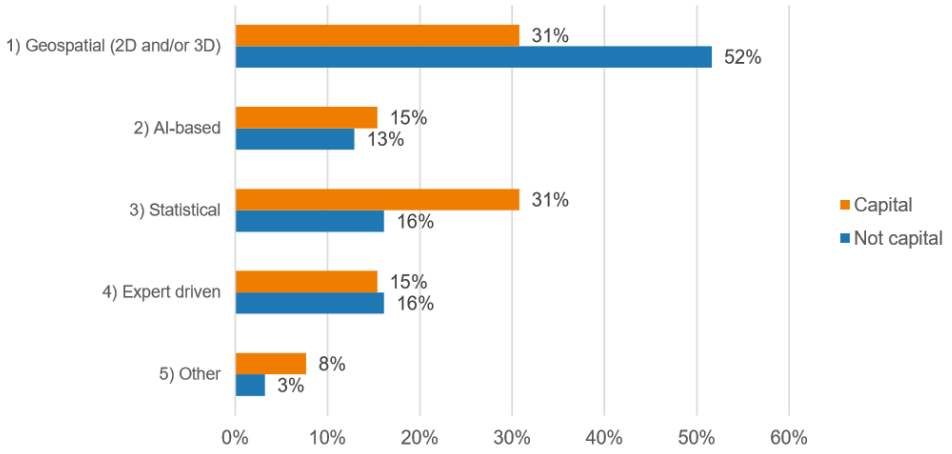

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

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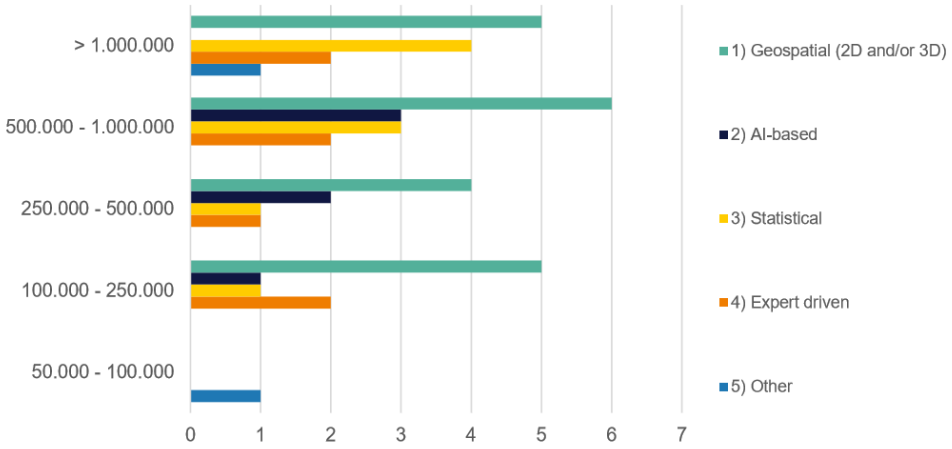

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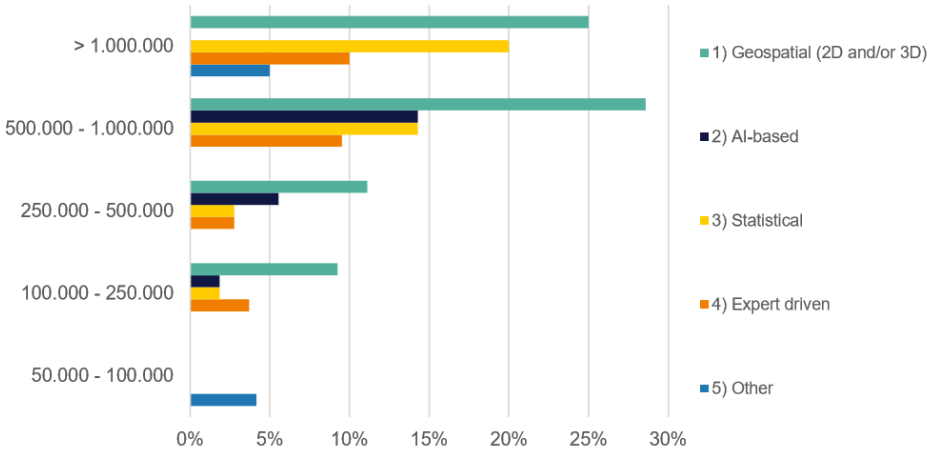

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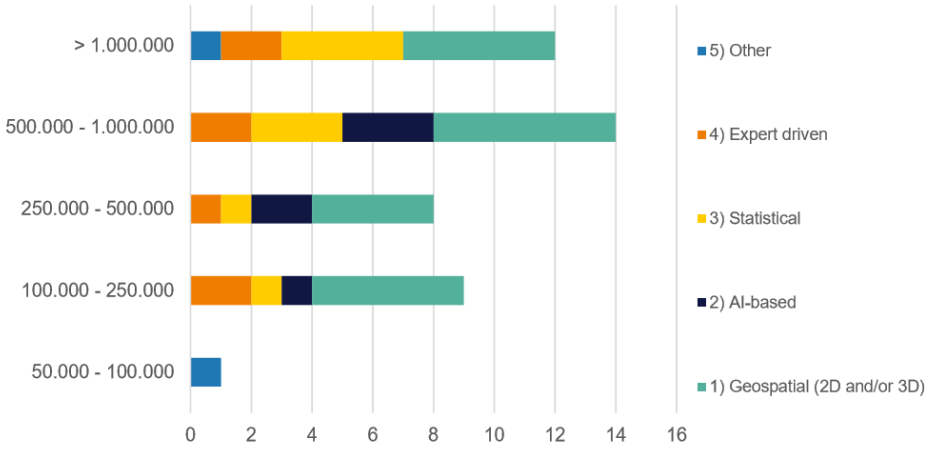

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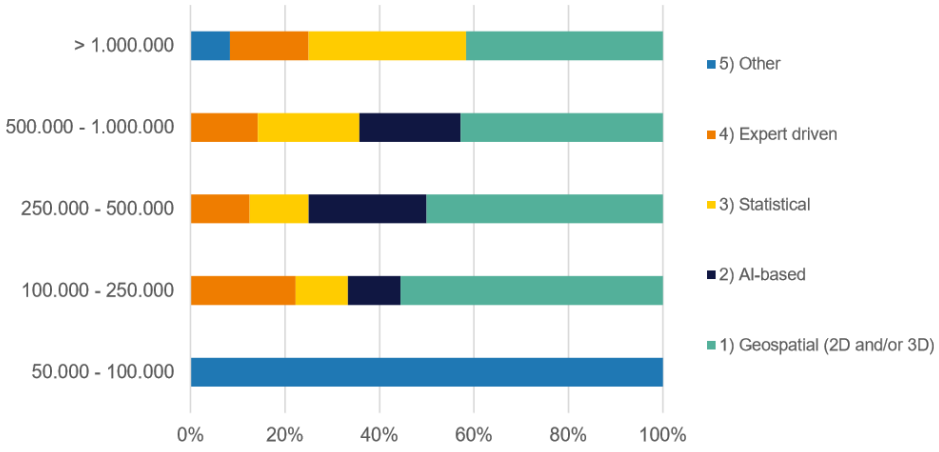

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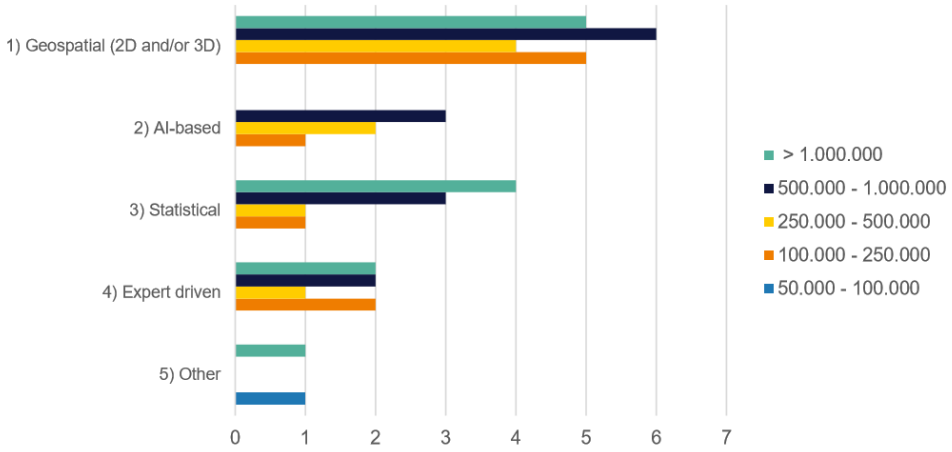

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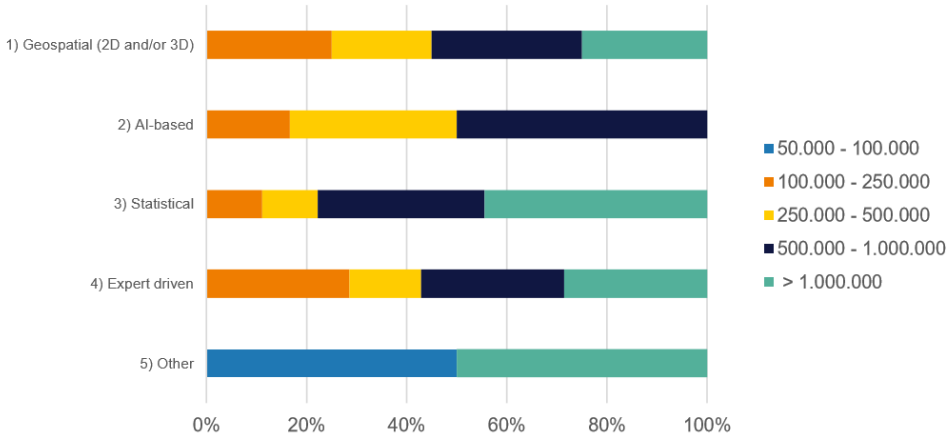
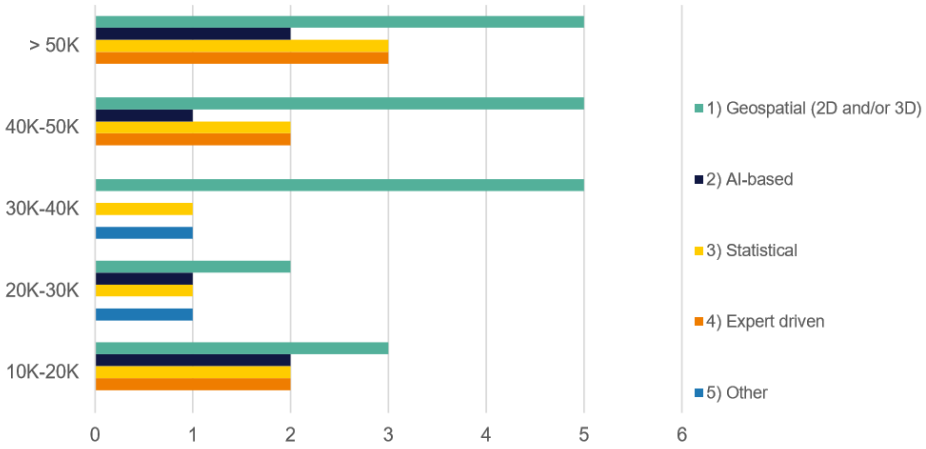


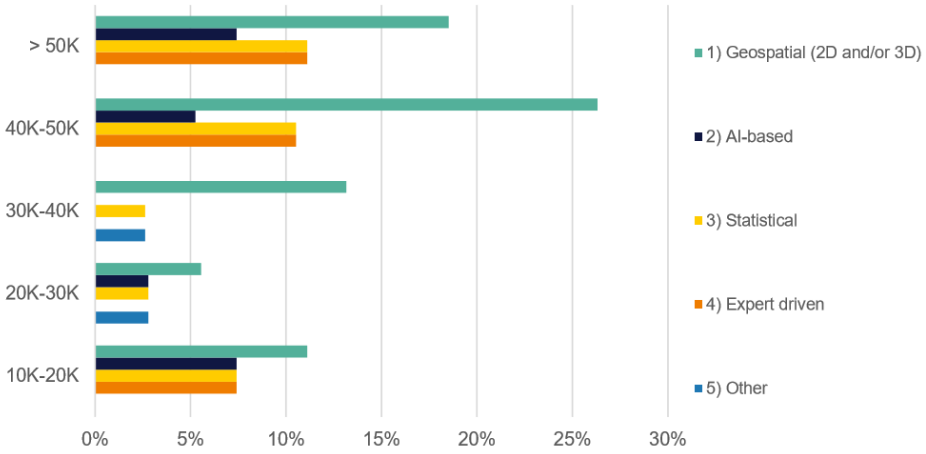
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



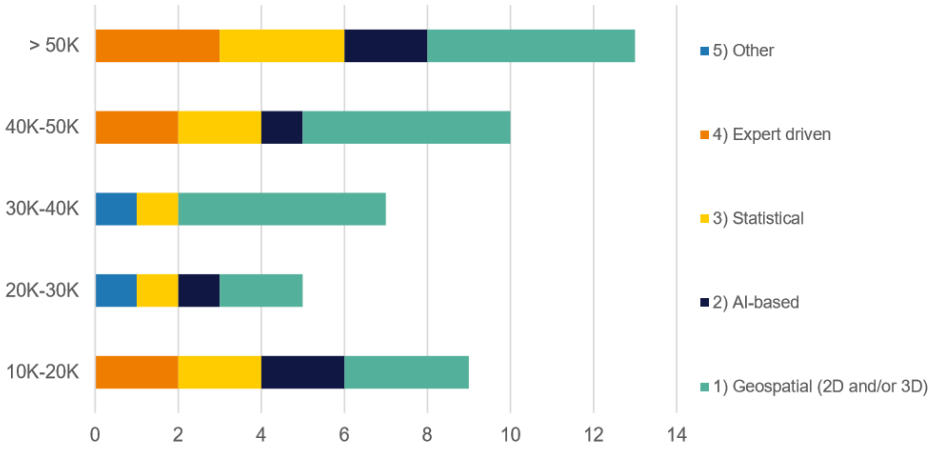
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



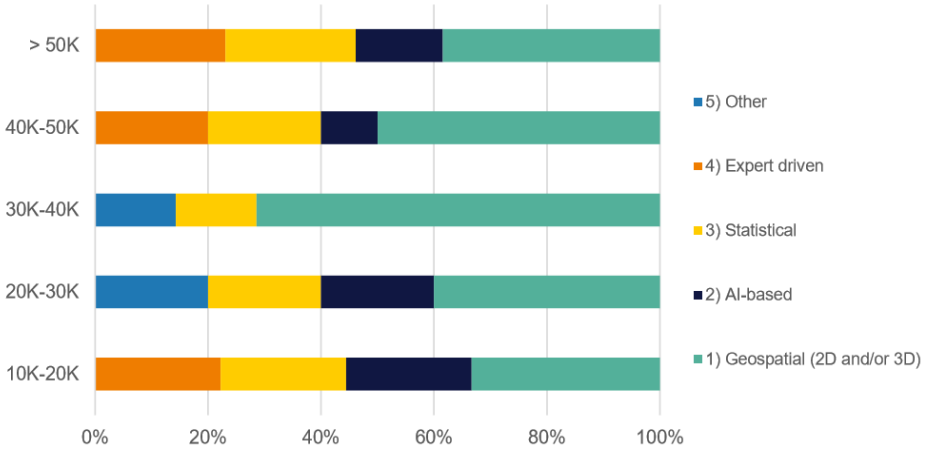
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



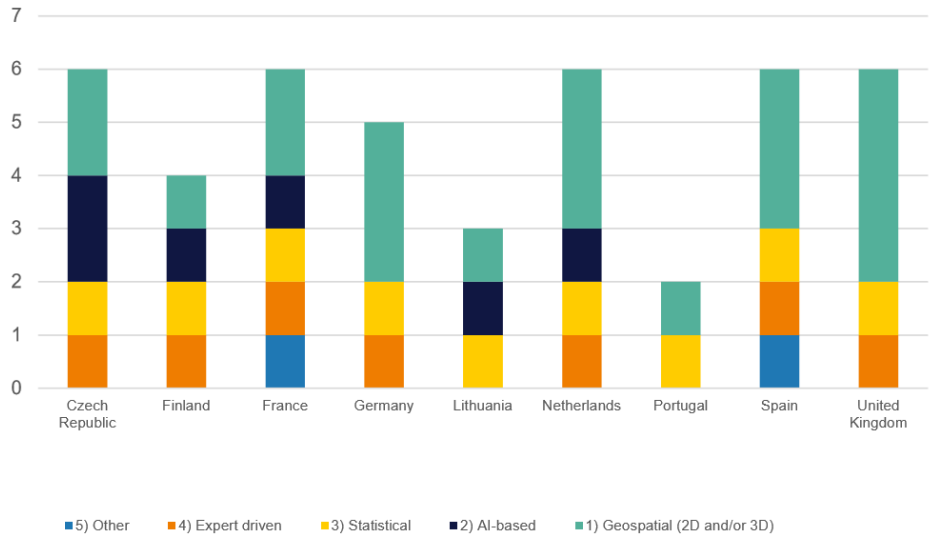
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

5.2.5.1 What kind of data modelling tools is your Urban Data Platform integrated with?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

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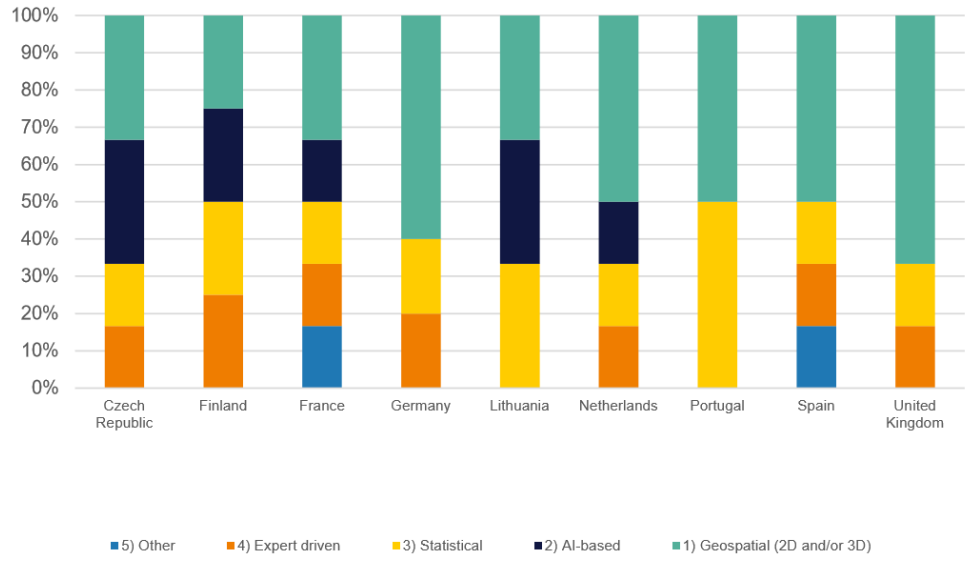


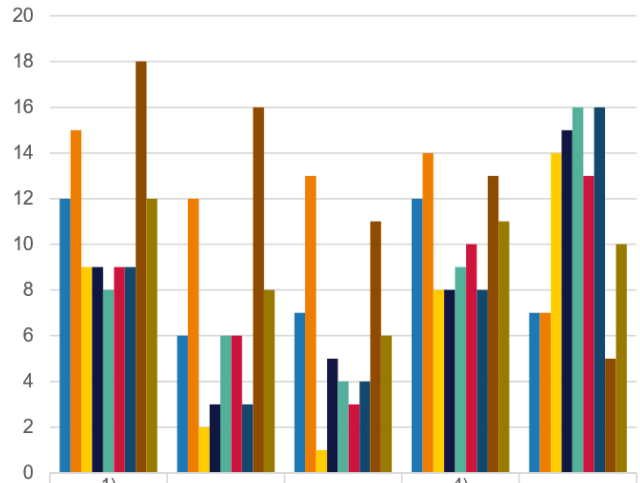
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.31 Q_5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:

ALL RESPONDENTS

Question typology:	***Matrix - Multiple choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**30 (12%)**



	1) Visualise policy scenarios	2) Predict policy impacts	3) Evaluate policy options	4) Monitoring policy impacts	5) Other uses
General services / Administration	12	6	7	12	7
Building & Spatial Planning	15	12	13	14	7
Culture & Leisure	9	2	1	8	14
Education	9	3	5	8	15
Healthcare	8	6	4	9	16
Order & Safety	9	6	3	10	13
Social & Welfare Services	9	3	4	8	16
Transport & Mobility	18	16	11	13	5
Utilities	12	8	6	11	10

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:

ALL RESPONDENTS

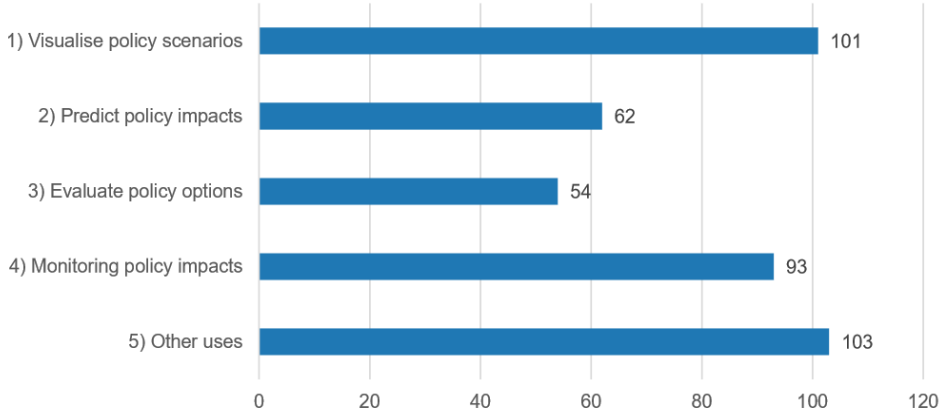
Question typology: ***Matrix - Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **30 (12%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Visualise policy scenarios	101	37%
2) Predict policy impacts	62	23%
3) Evaluate policy options	54	20%
4) Monitoring policy impacts	93	34%
5) Other uses	103	38%

* The Count is given by the sum of all the selected rows within the same matrix column

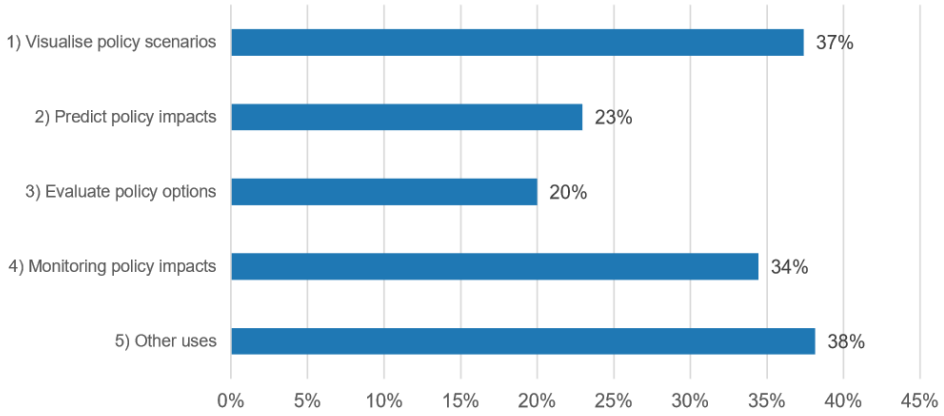
*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	-	Count

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	-	Percentage

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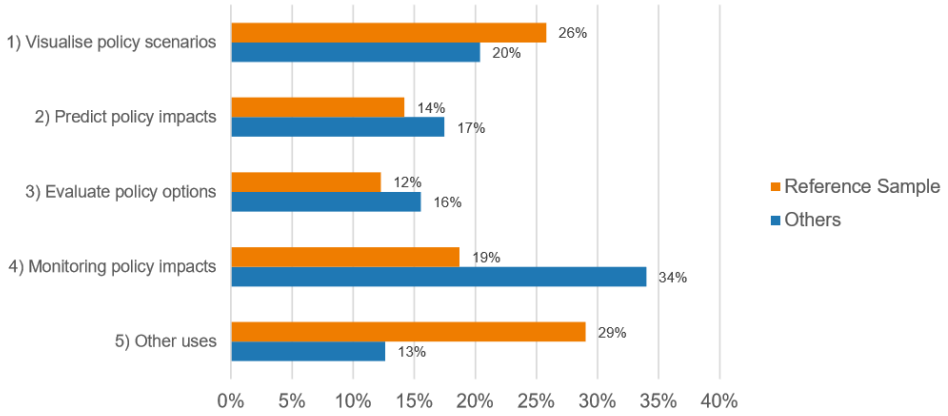
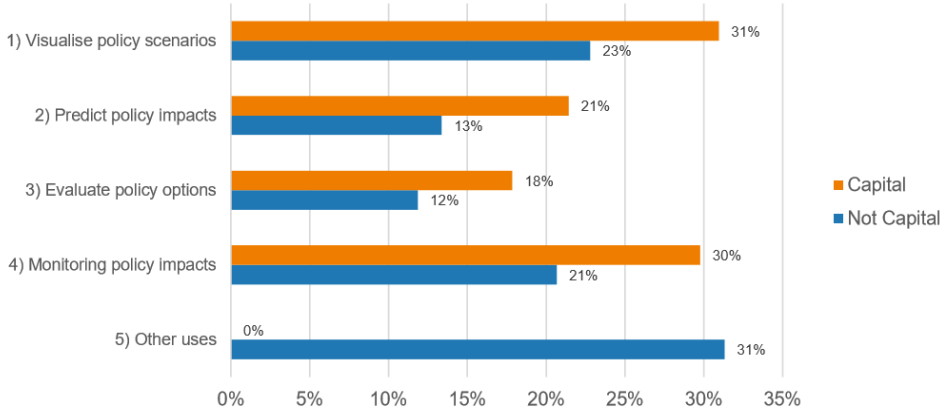


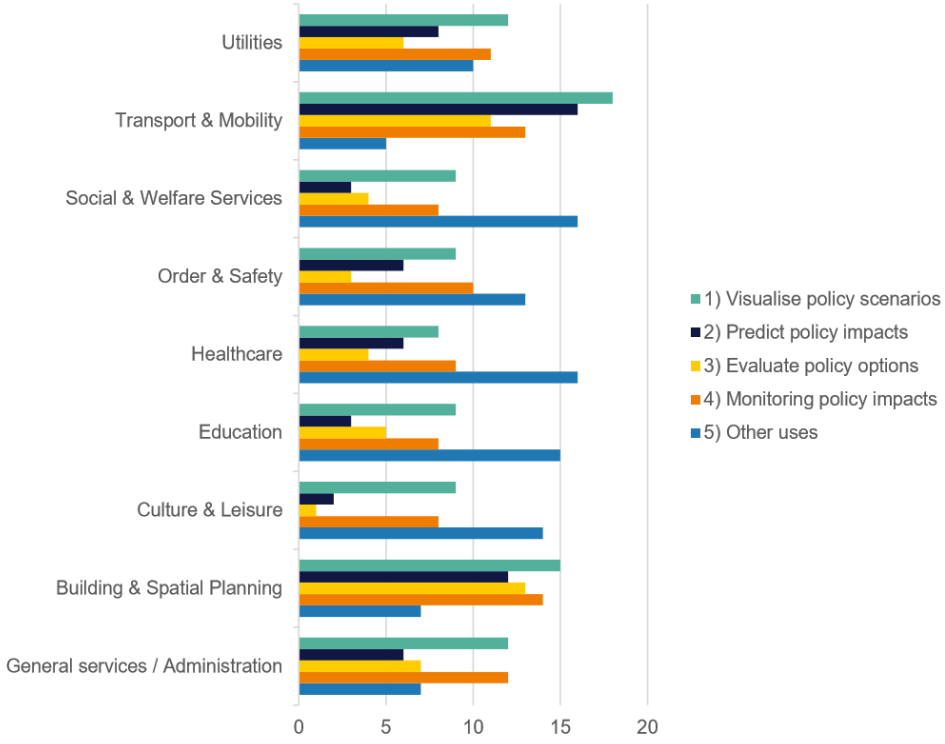
Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Reference Sample	Percentage

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Capital cities	Percentage

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:



Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Count

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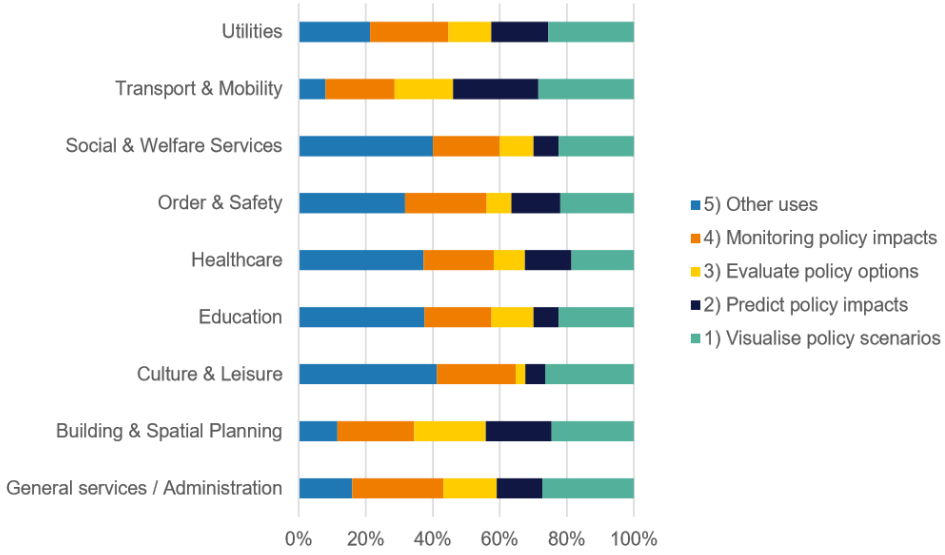

Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Percentage

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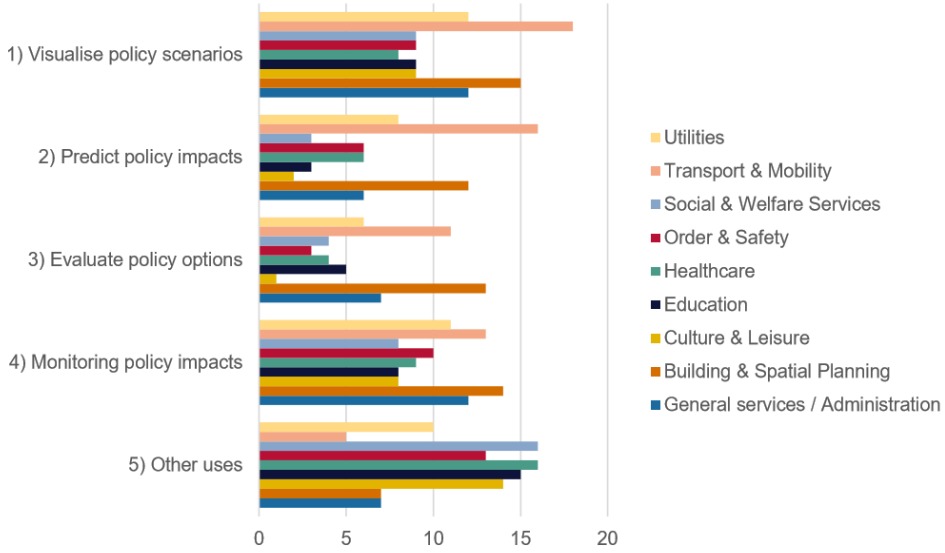
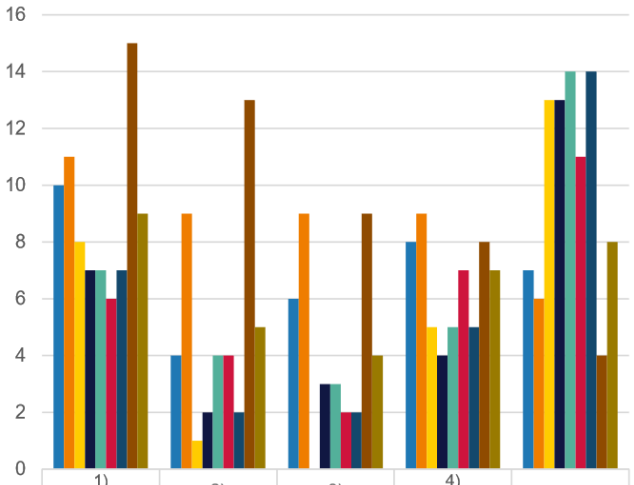


Question typology	Data	Cluster	Value
Matrix - Multiple choice	All Respondents	Matrix	Count

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:

REFERENCE SAMPLE

Question typology: ***Matrix - Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **23 (15%)**



	1) Visualise policy scenarios	2) Predict policy impacts	3) Evaluate policy options	4) Monitoring policy impacts	5) Other uses
General services / Administration	10	4	6	8	7
Building & Spatial Planning	11	9	9	9	6
Culture & Leisure	8	1		5	13
Education	7	2	3	4	13
Healthcare	7	4	3	5	14
Order & Safety	6	4	2	7	11
Social & Welfare Services	7	2	2	5	14
Transport & Mobility	15	13	9	8	4
Utilities	9	5	4	7	8

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:

REFERENCE SAMPLE

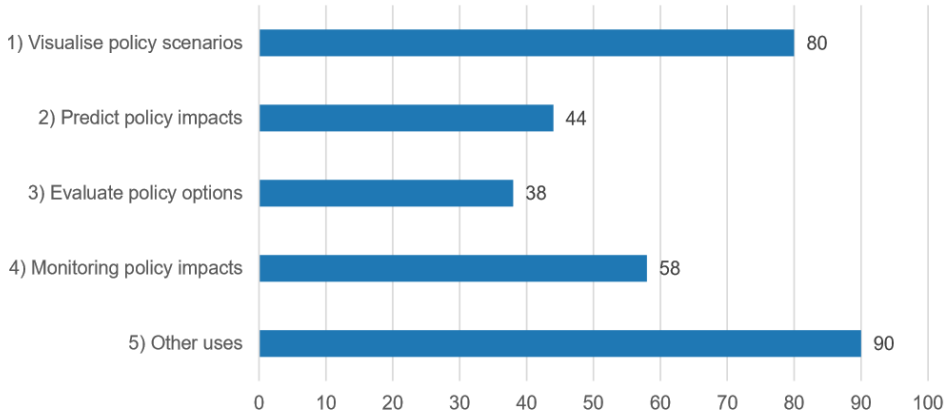
Question typology:	***Matrix - Multiple choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**23 (15%)**

Answer (matrix columns)	*Count **	*Percentage ***
1) Visualise policy scenarios	80	39%
2) Predict policy impacts	44	21%
3) Evaluate policy options	38	18%
4) Monitoring policy impacts	58	28%
5) Other uses	90	43%

* The Count is given by the sum of all the selected rows within the same matrix column

*** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.5.2 Specify for each service area the purposes of the integrated data modelling function (Local Digital Twins or similar) is used:



Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	-	Count

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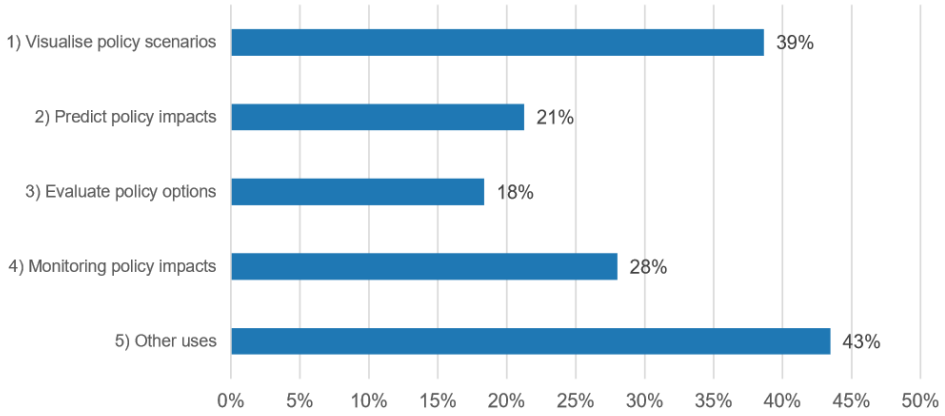

Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	-	Percentage

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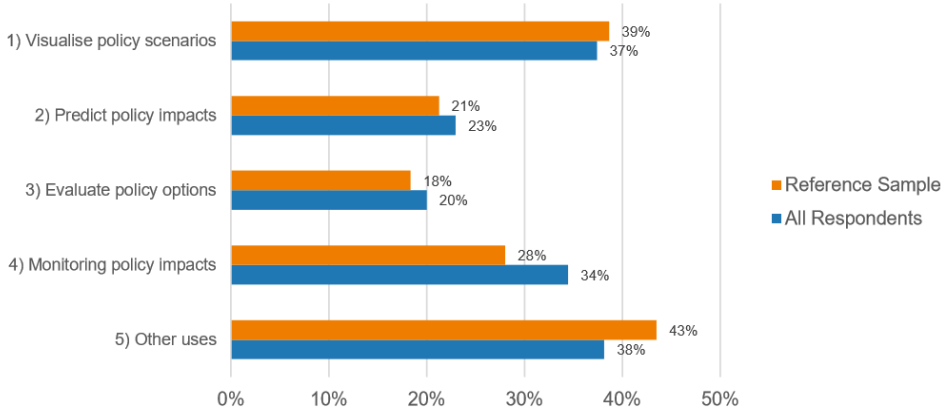

Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Reference Sample	Percentage

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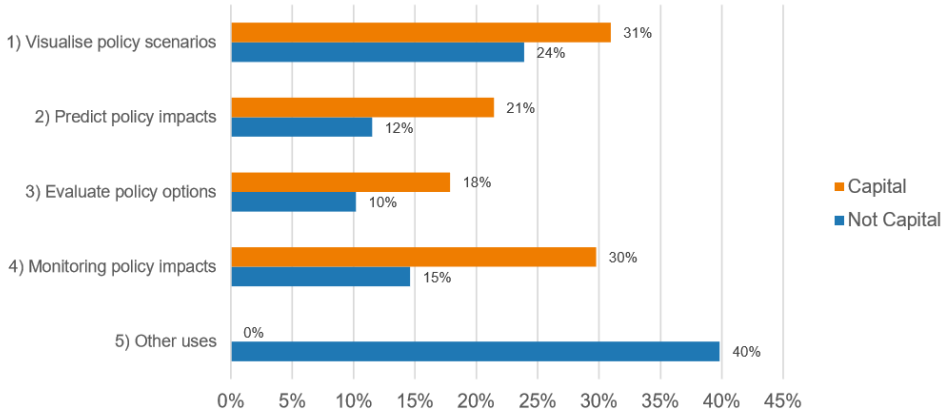

Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Capital cities	Percentage

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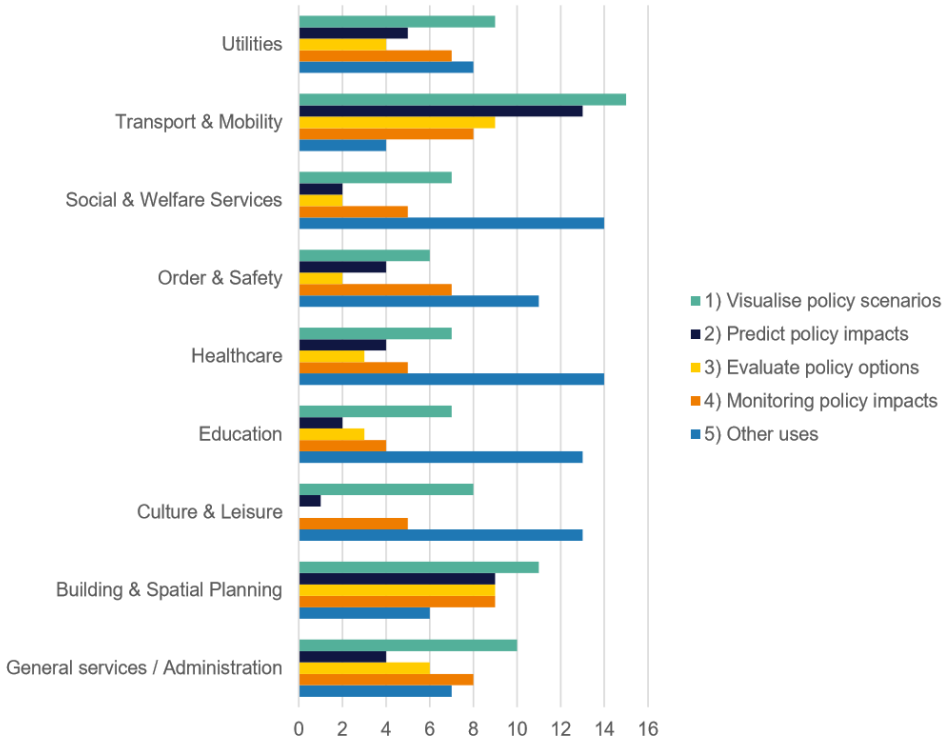

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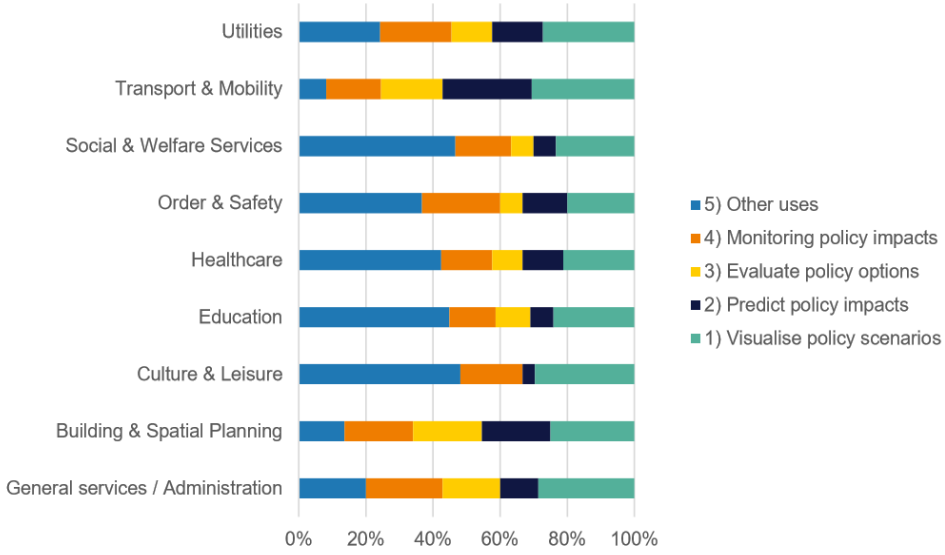

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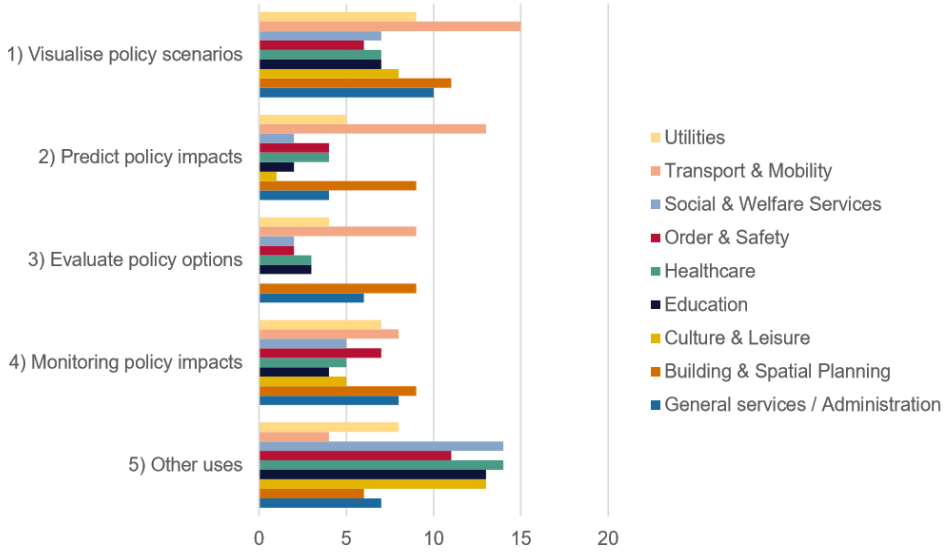


Question typology	Data	Cluster	Value
Matrix - Multiple choice	Reference Sample	Matrix	Count

3.32 Q_5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):

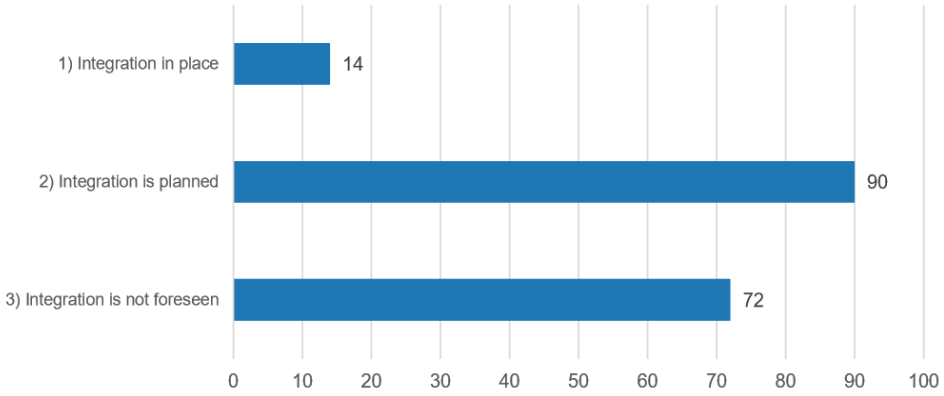
ALL RESPONDENTS

Question type: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **176 (72%)**

Answer	*Count*	*Percentage**
1) Integration in place	14	8%
2) Integration is planned	90	51%
3) Integration is not foreseen	72	41%

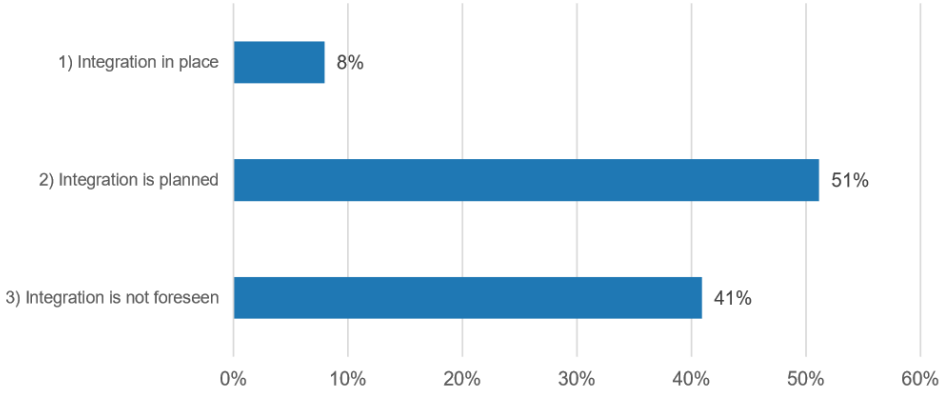
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

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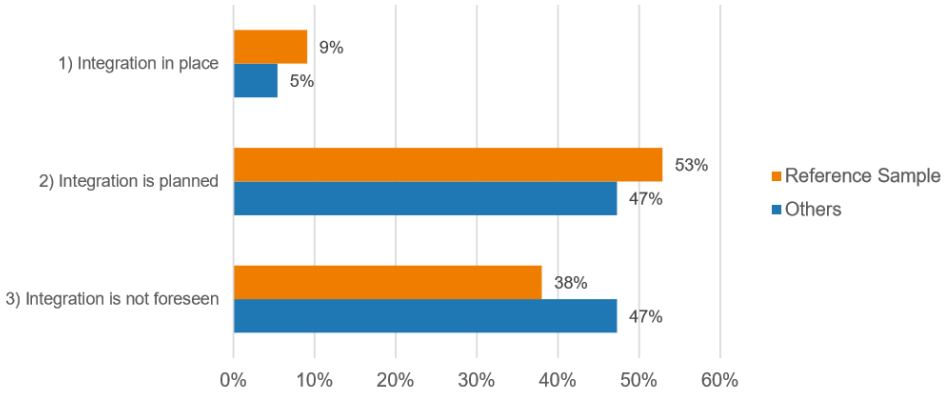
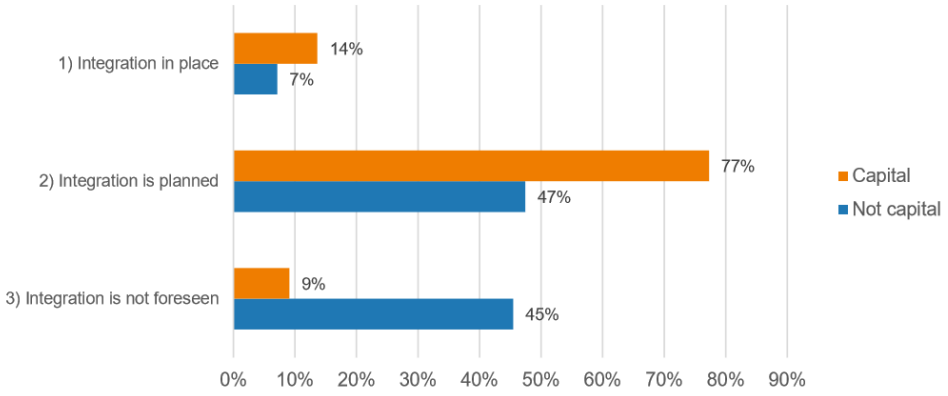


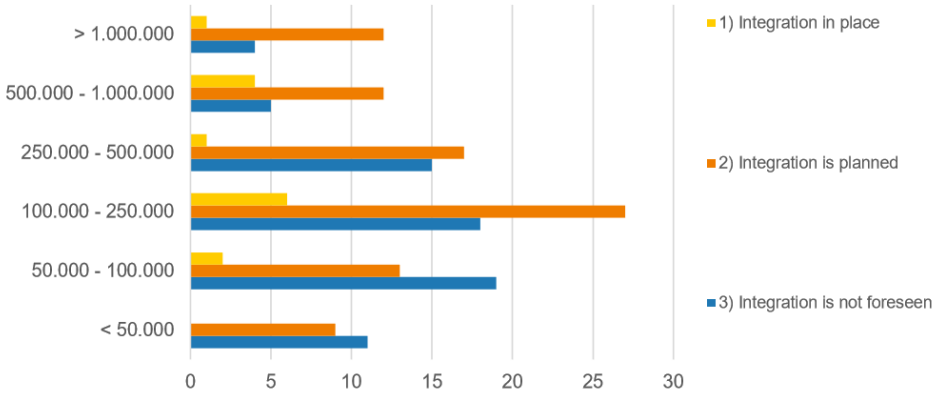
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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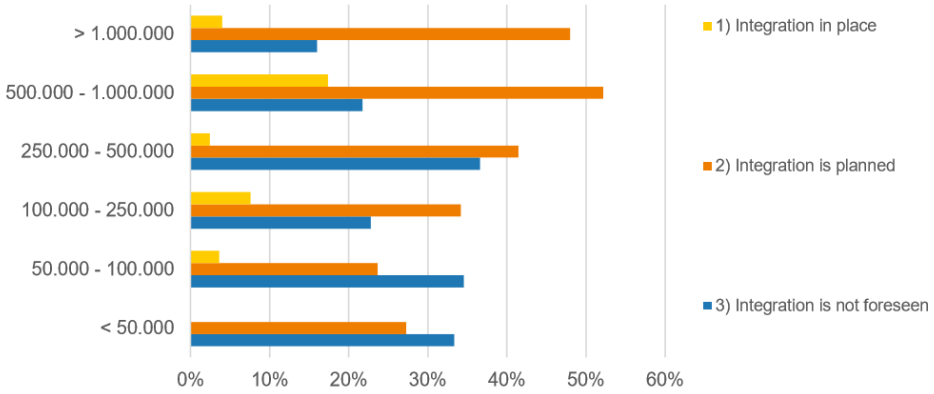

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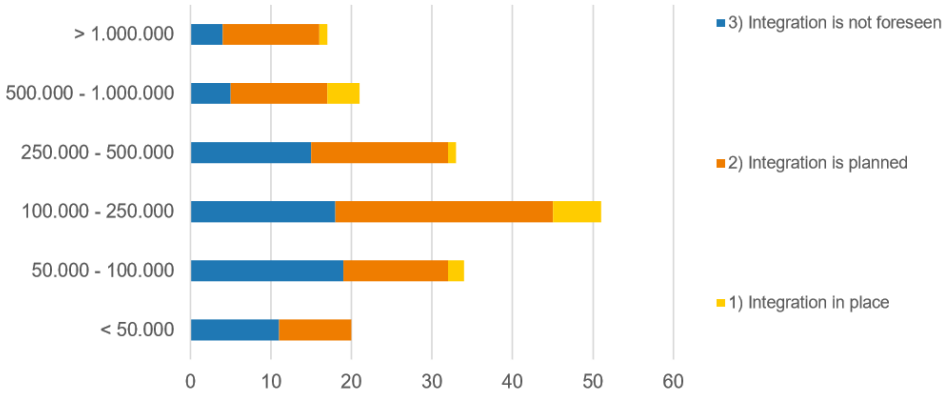

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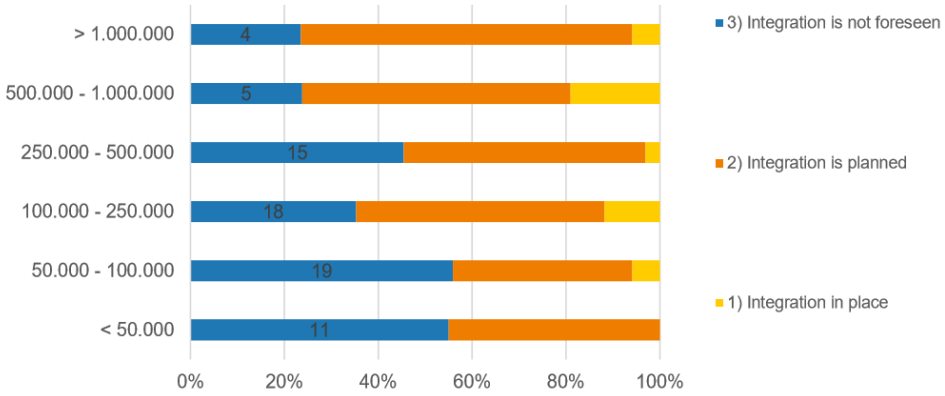

Question type	Data sample	Cluster	Value
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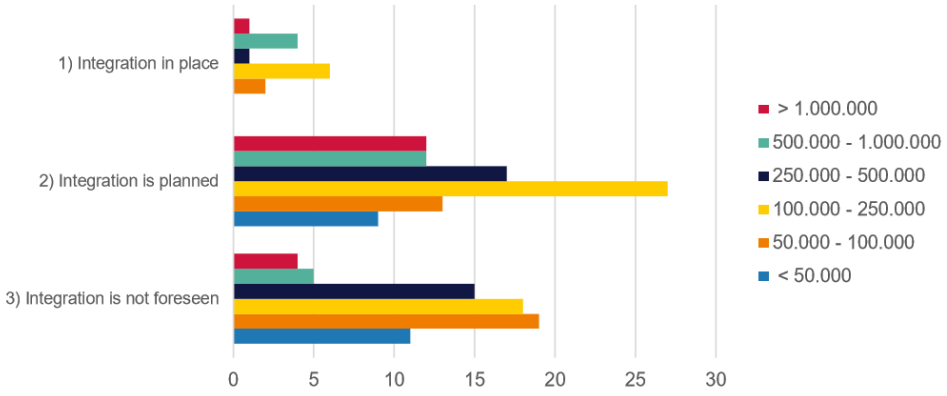

Question type	Data sample	Cluster	Value
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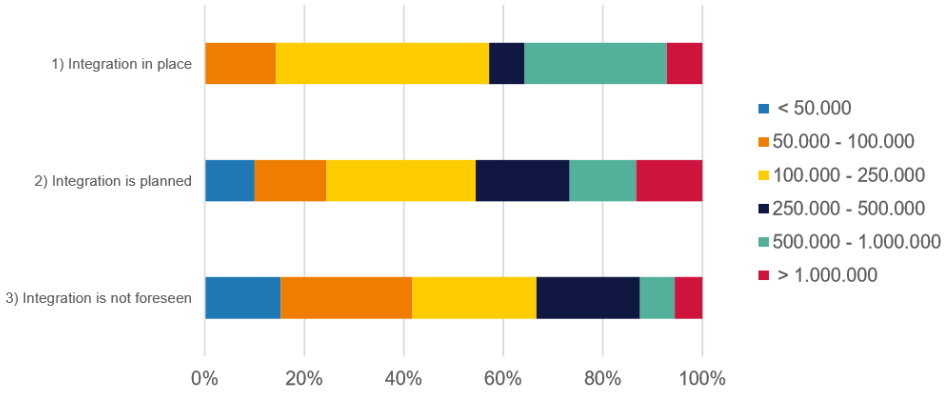

Question type	Data sample	Cluster	Value
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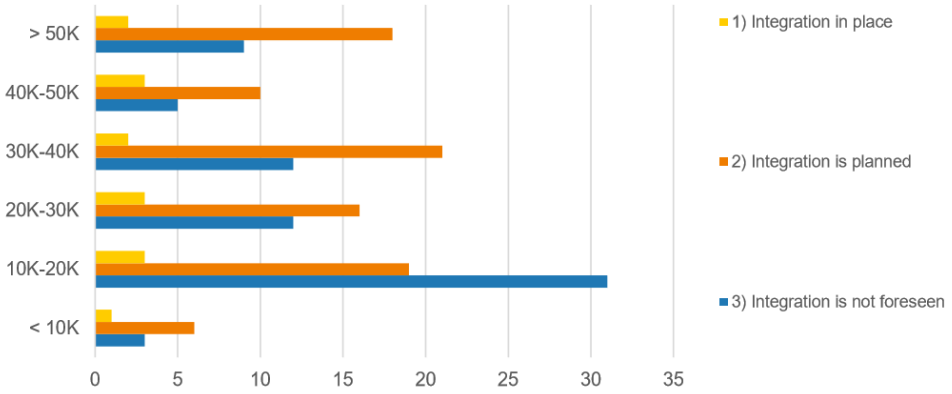

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

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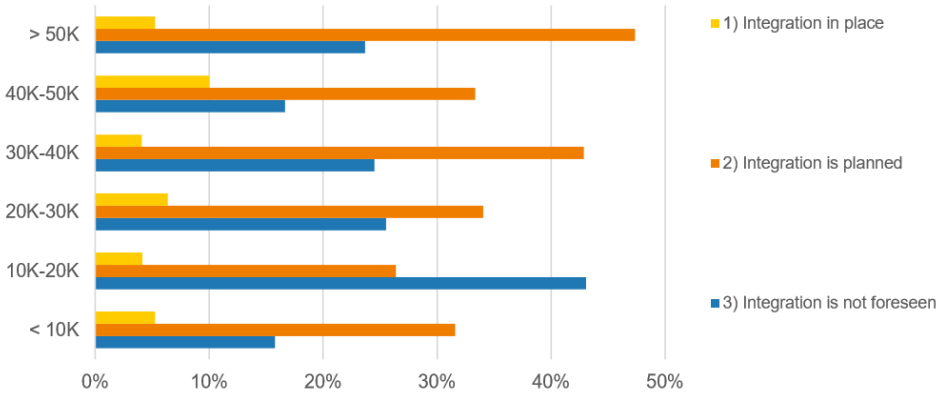

Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

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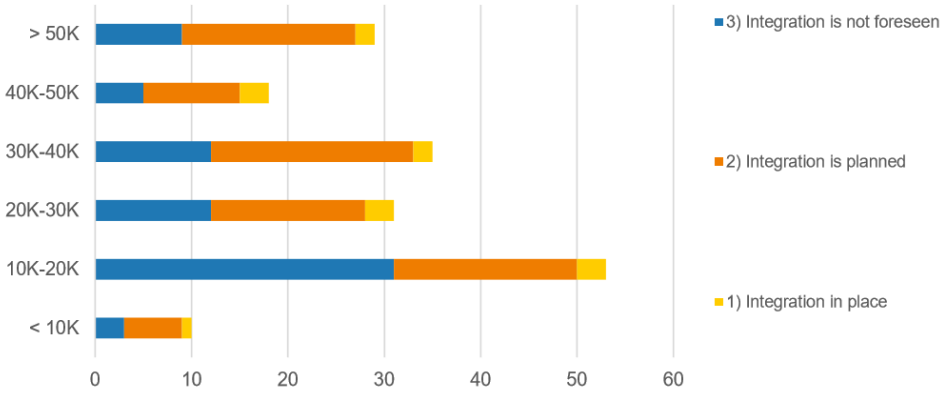

Question type	Data sample	Cluster	Value
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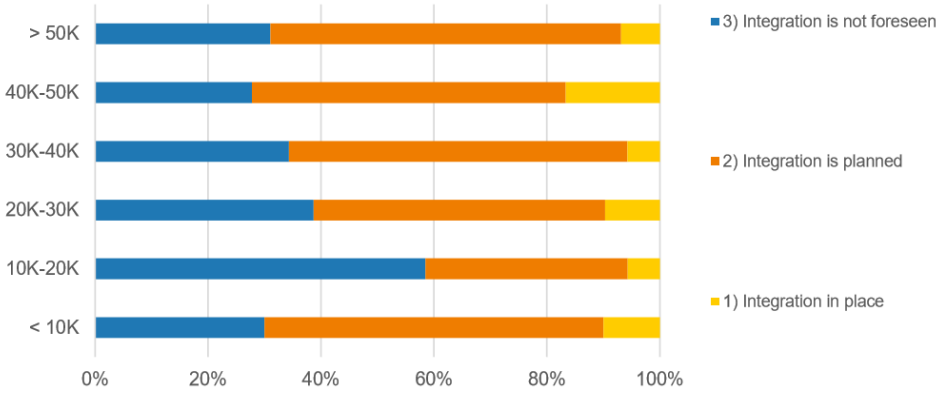
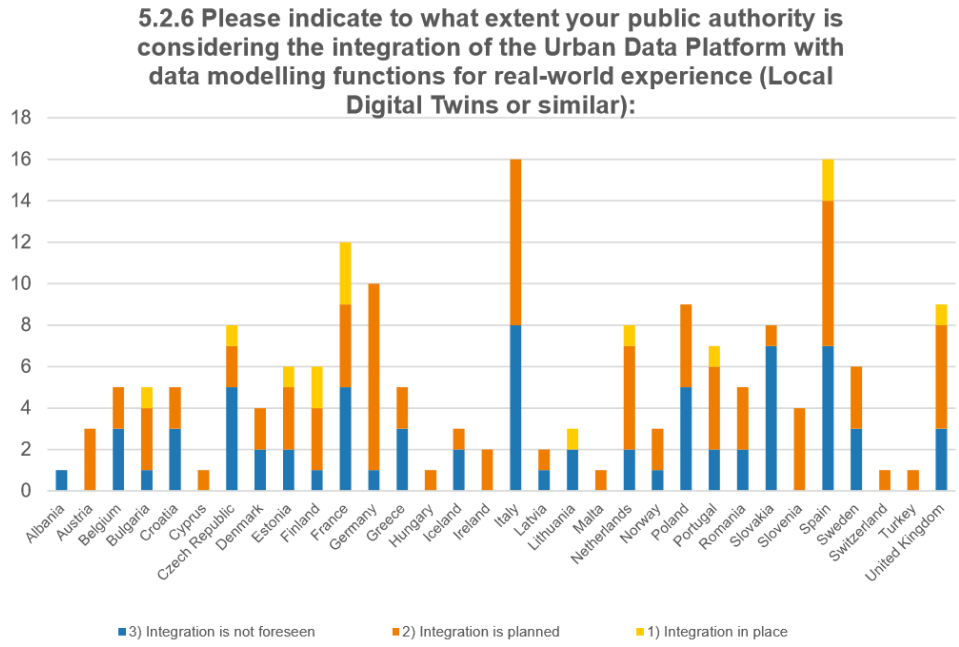
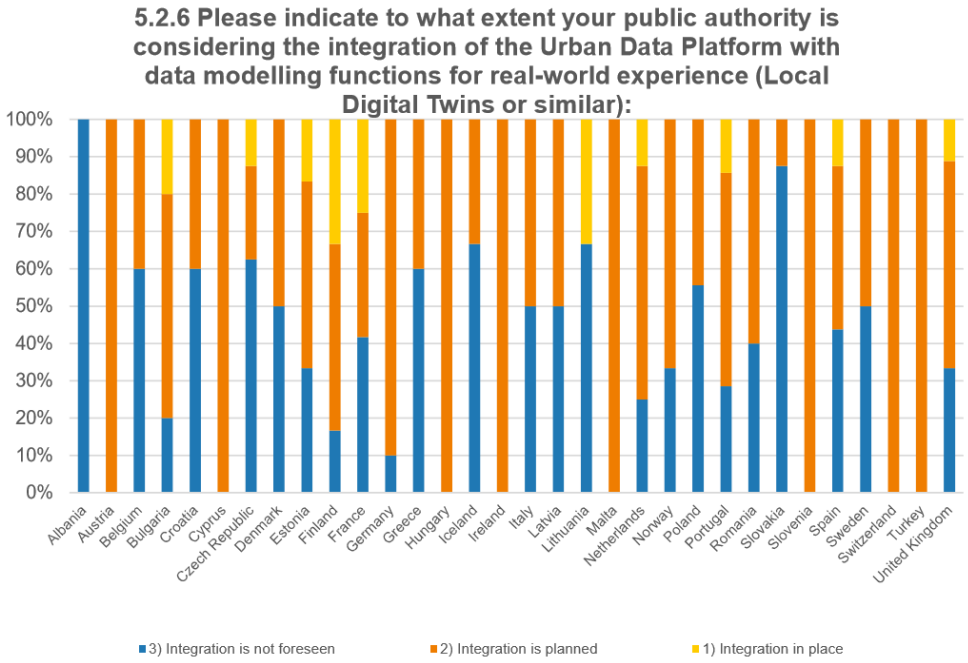
5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):

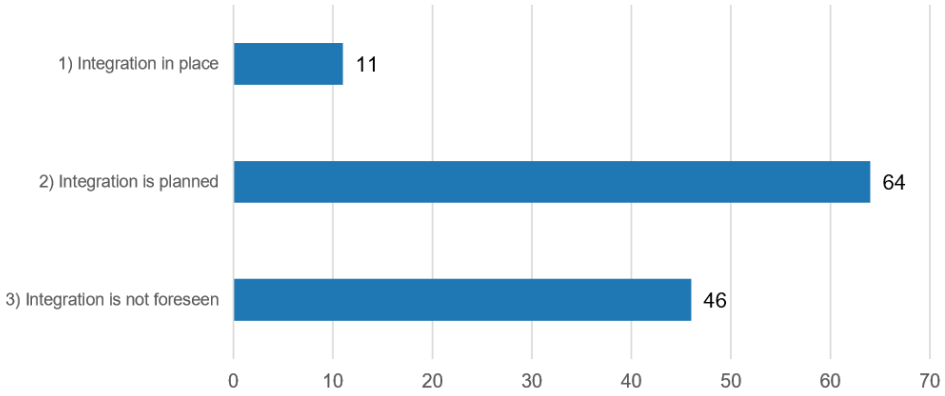
REFERENCE SAMPLE

Question type: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **121 (78%)**

Answer	*Count*	*Percentage**
1) Integration in place	11	9%
2) Integration is planned	64	53%
3) Integration is not foreseen	46	38%

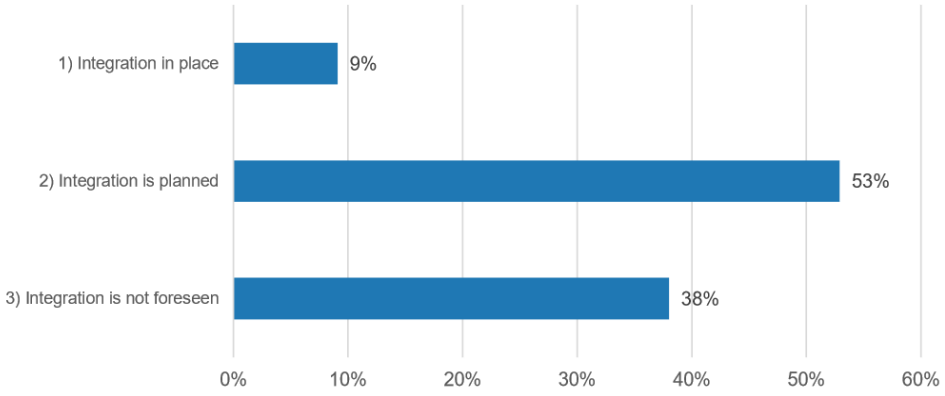
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



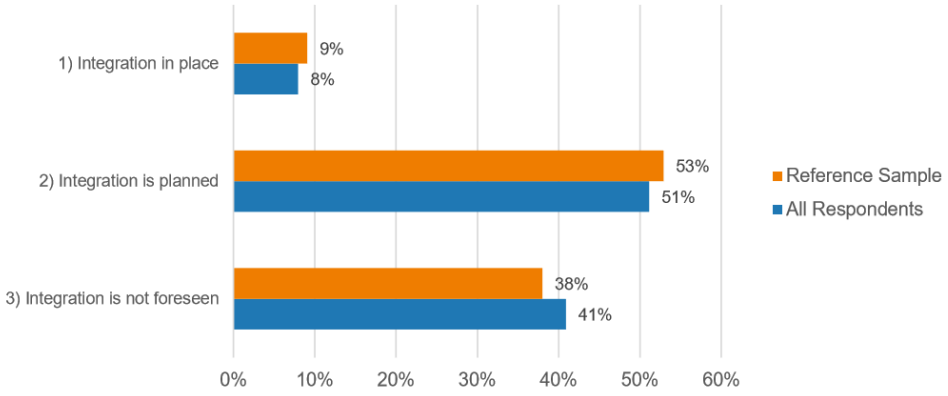
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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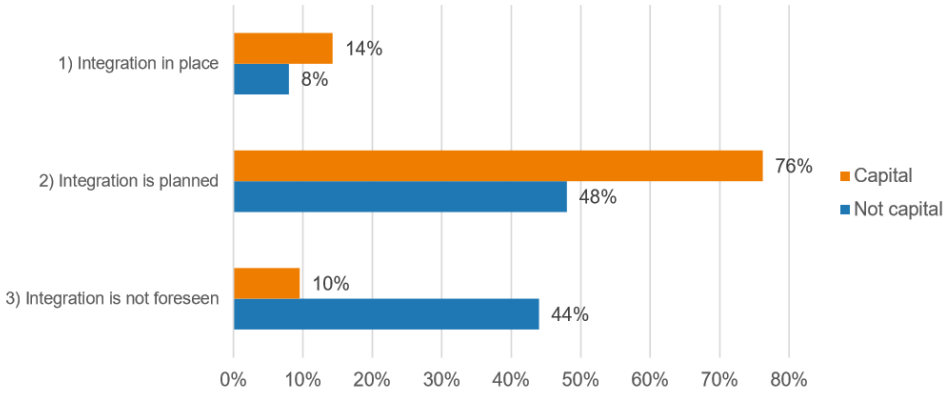
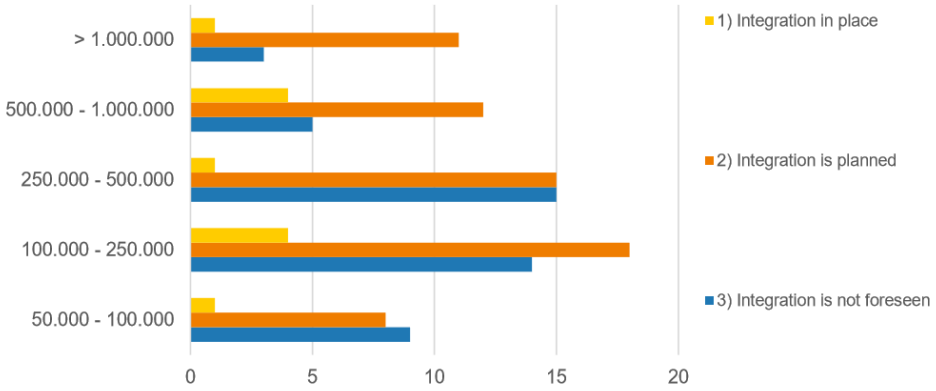


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

5.2.6 Please indicate to what extent your public authority is considering the integration of the Urban Data Platform with data modelling functions for real-world experience (Local Digital Twins or similar):



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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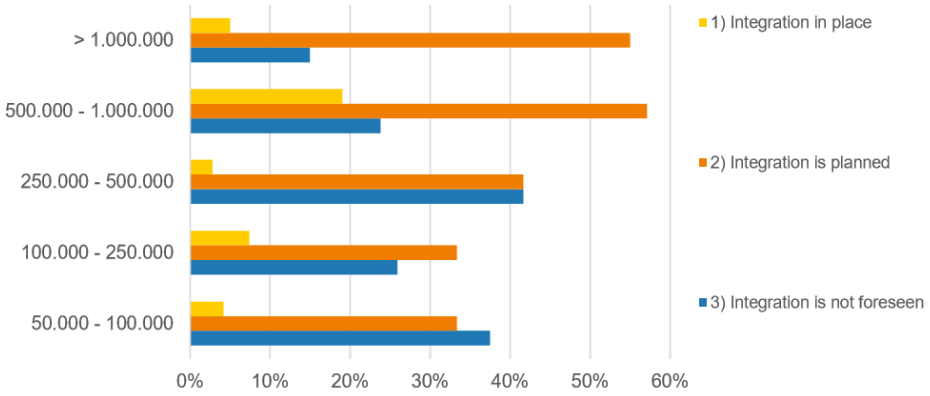

Question type	Data sample	Cluster	Value
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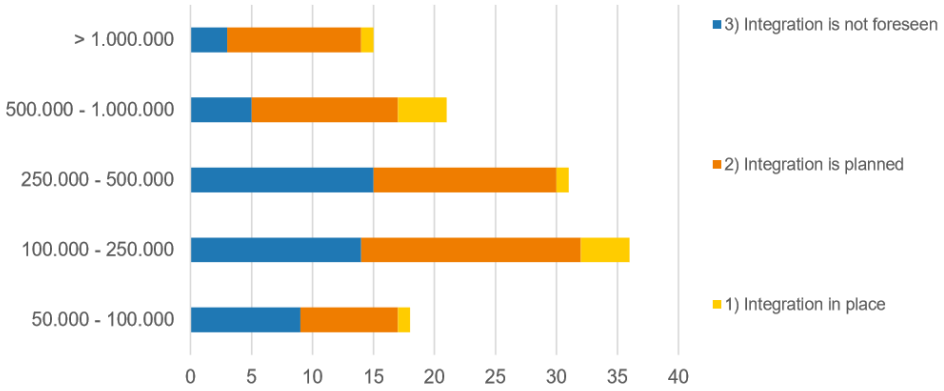

Question type	Data sample	Cluster	Value
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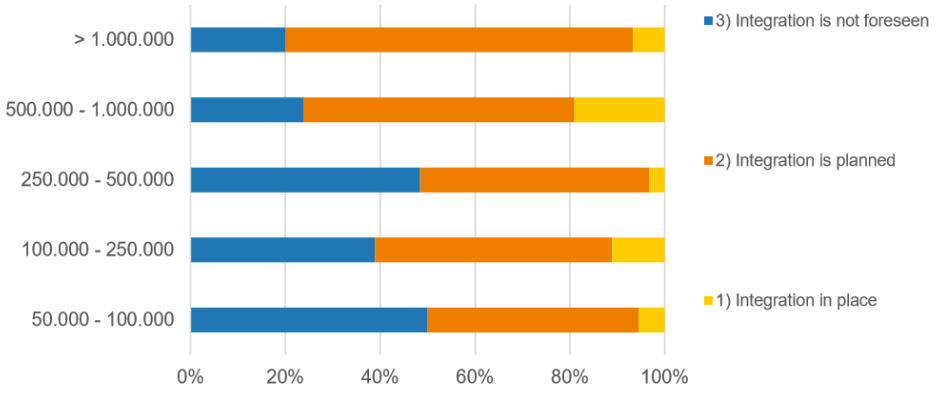

Question type	Data sample	Cluster	Value
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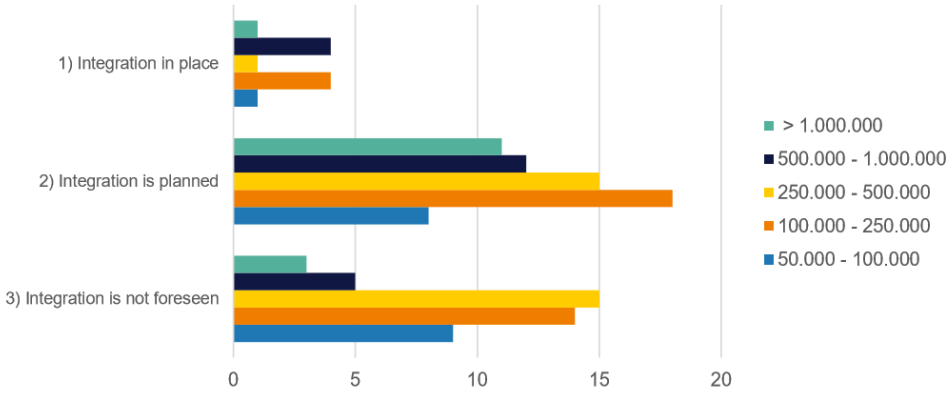

Question type	Data sample	Cluster	Value
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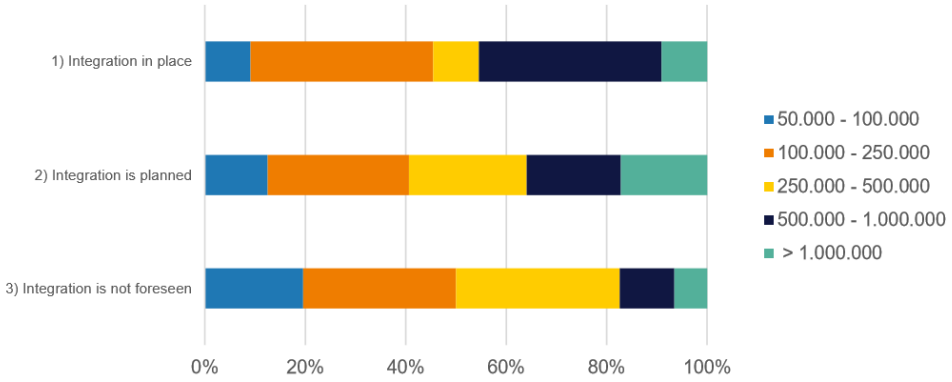

Question type	Data sample	Cluster	Value
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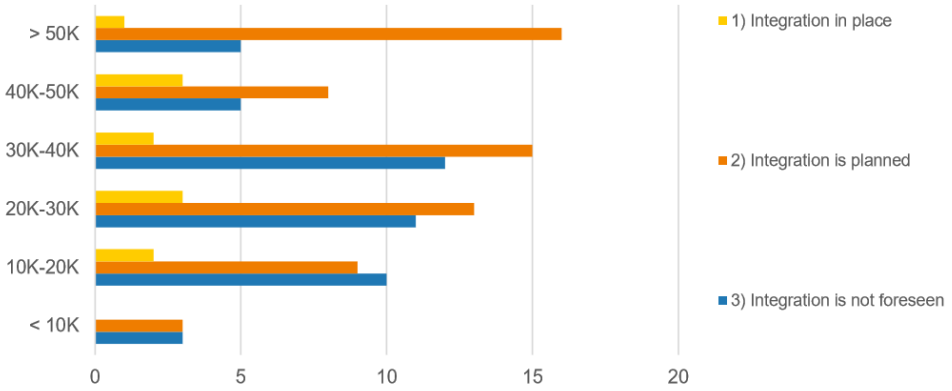

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

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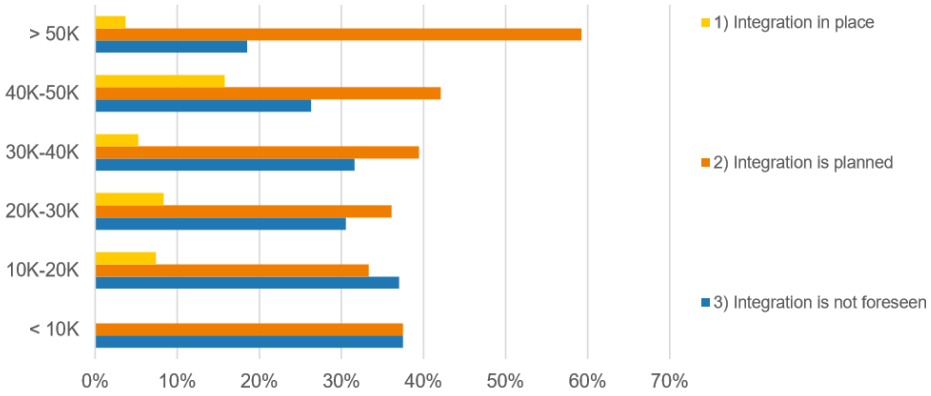

Question type	Data sample	Cluster	Value
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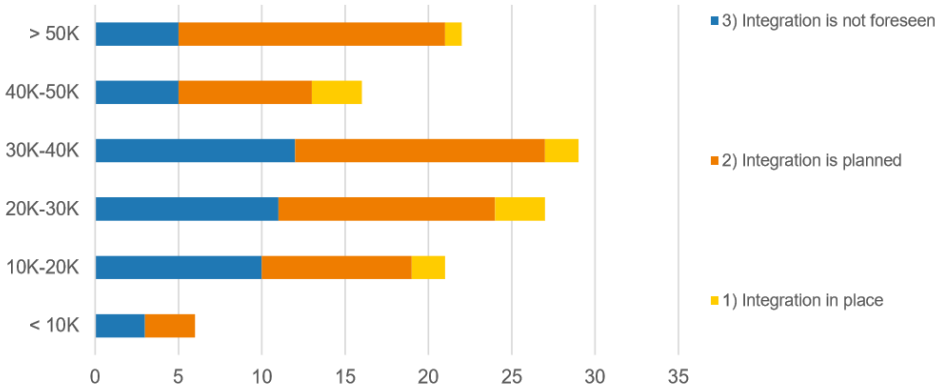

Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

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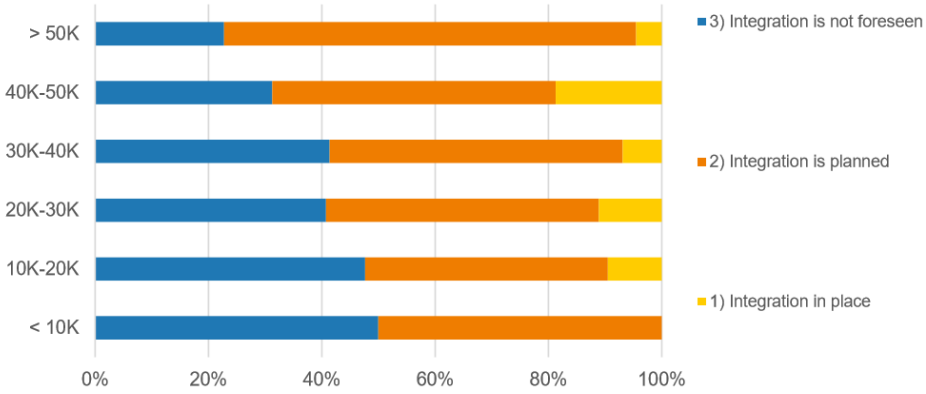
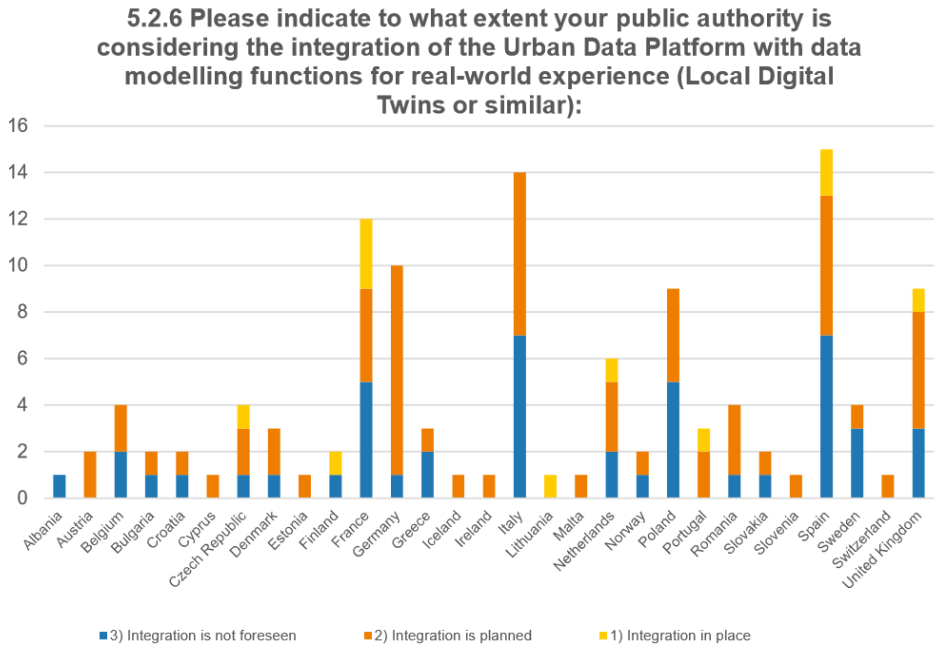
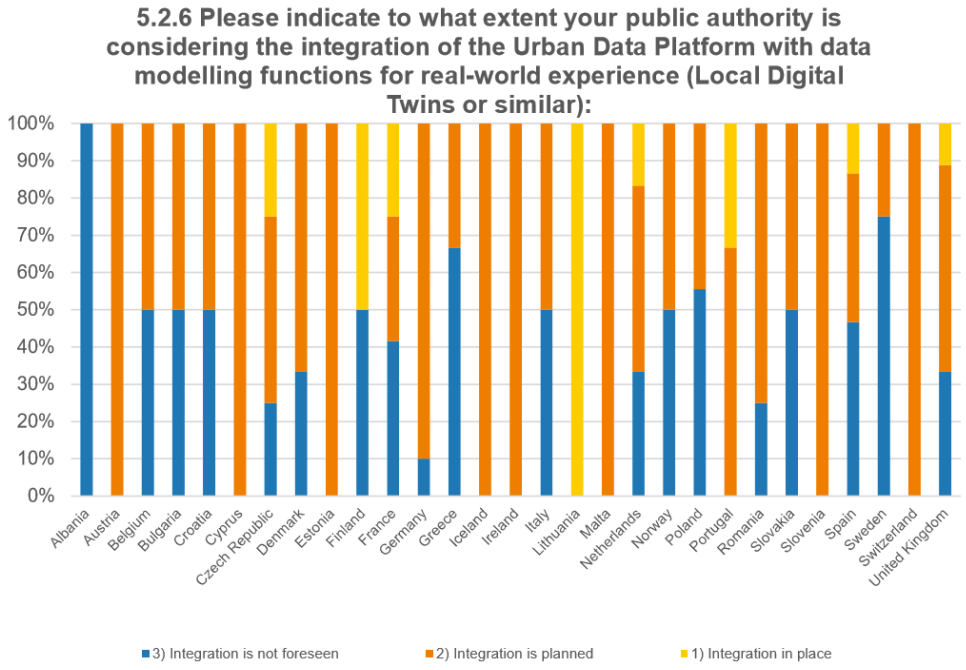


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.33 Q_5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?

5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?

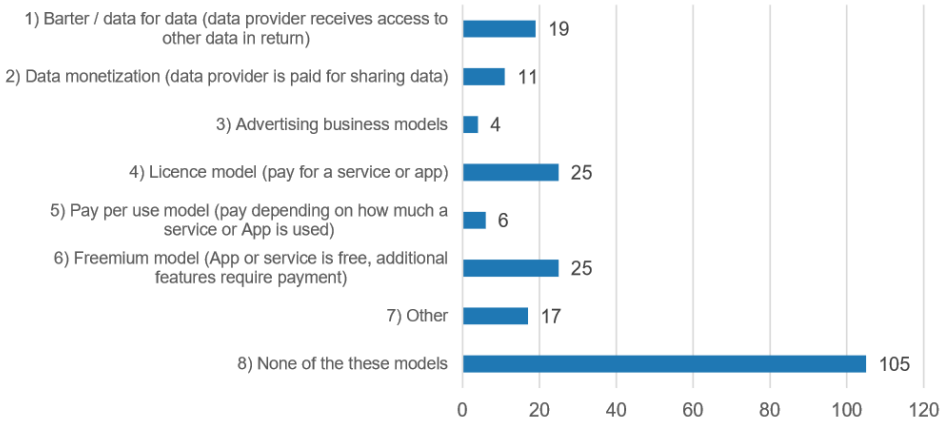
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **176 (72%)**

Answer	*Count*	*Percentage**
1) Barter / data for data (data provider receives access to other data in return)	19	11%
2) Data monetization (data provider is paid for sharing data)	11	6%
3) Advertising business models	4	2%
4) Licence model (pay for a service or app)	25	14%
5) Pay per use model (pay depending on how much a service or App is used)	6	3%
6) Freemium model (App or service is free, additional features require payment)	25	14%
7) Other	17	10%
8) None of the these models	105	60%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

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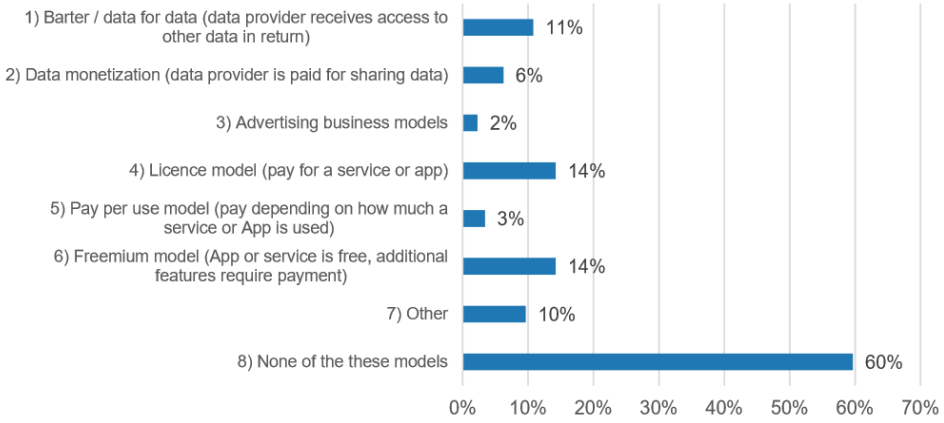

Question type	Data sample	Cluster	Value
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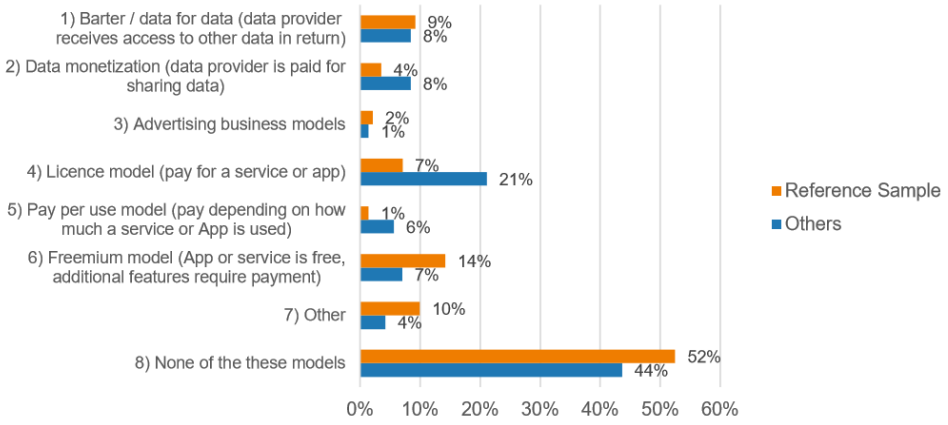

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

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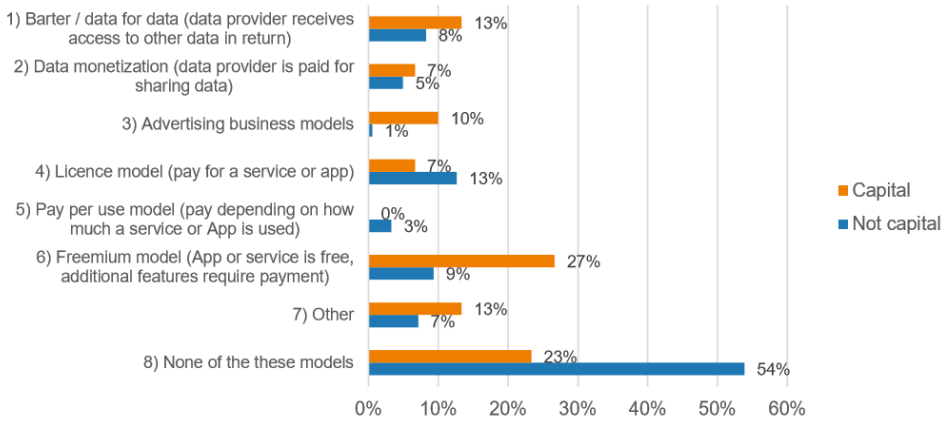

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

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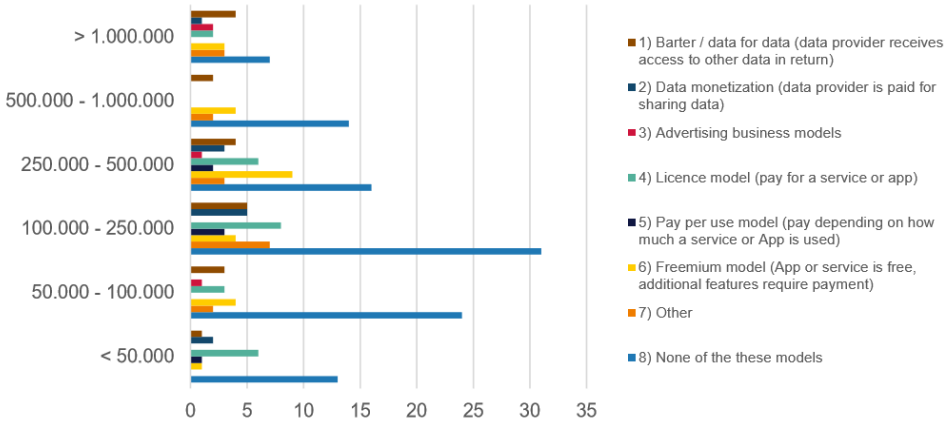

Question type	Data sample	Cluster	Value
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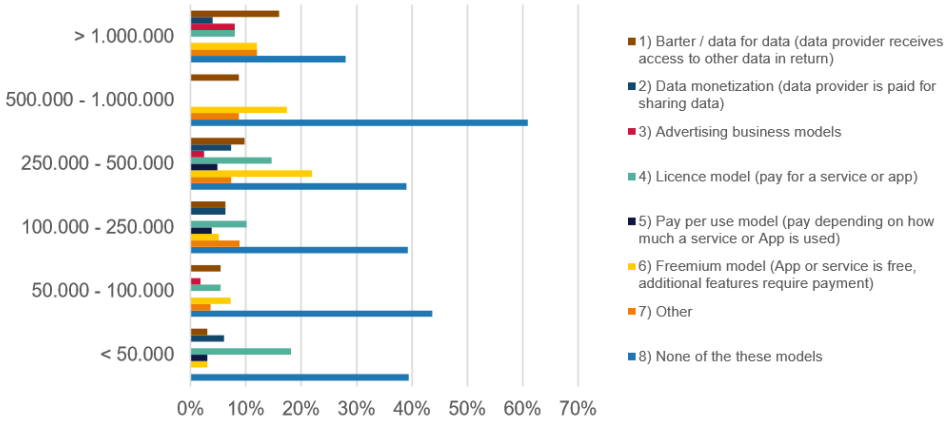

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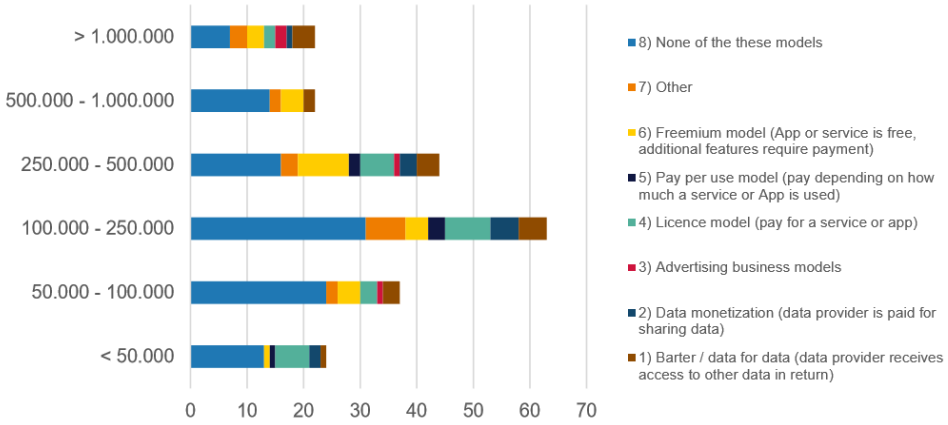

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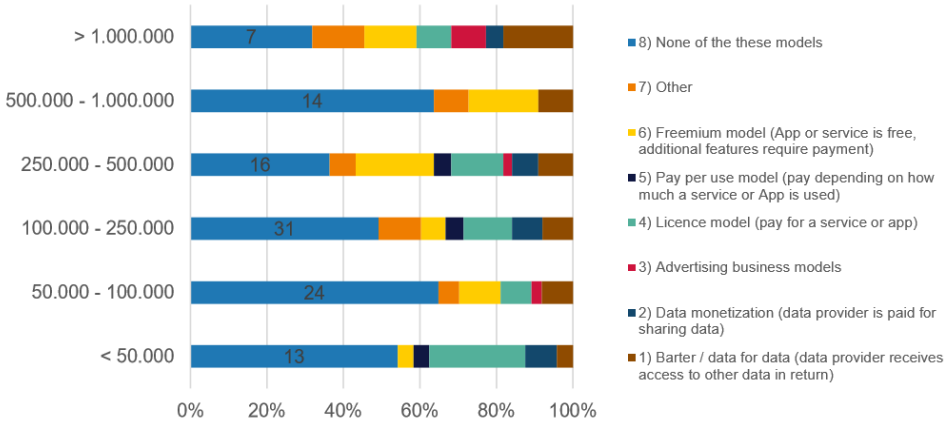

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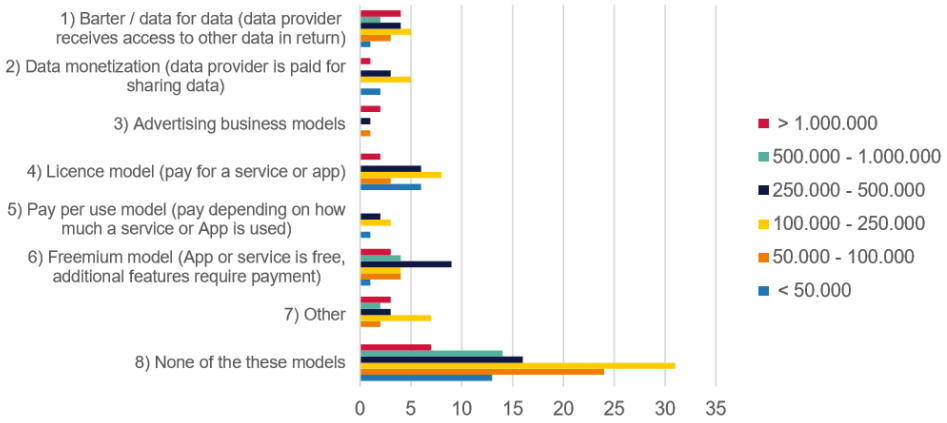

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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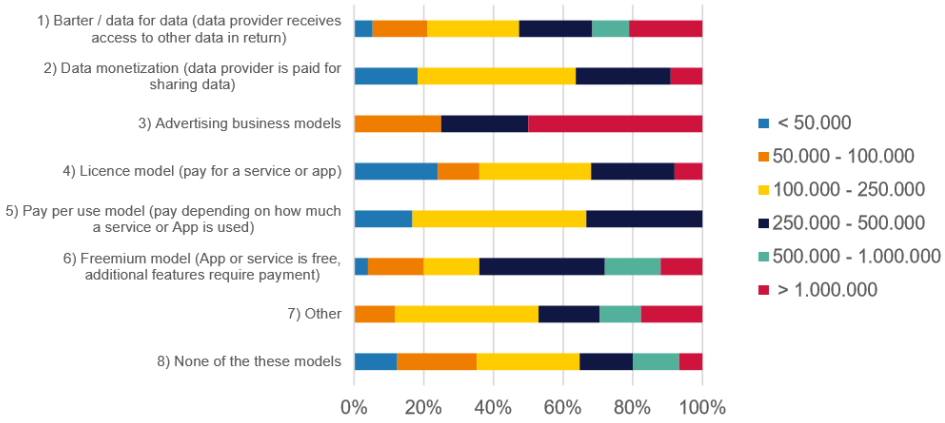

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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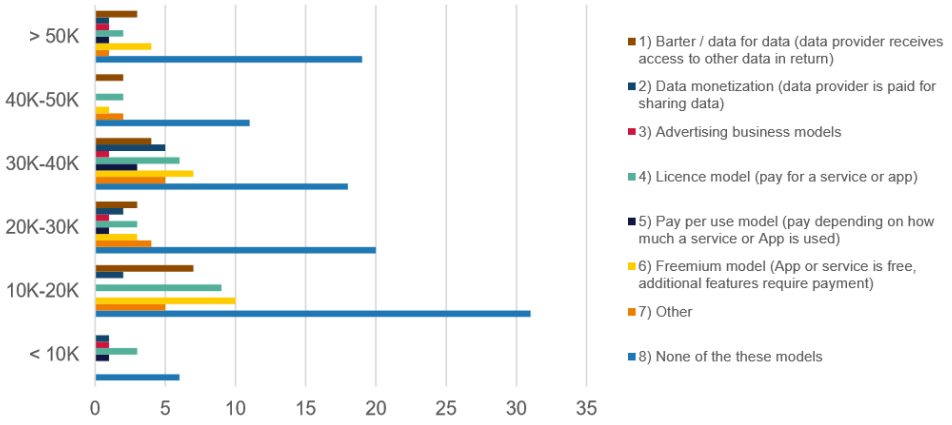

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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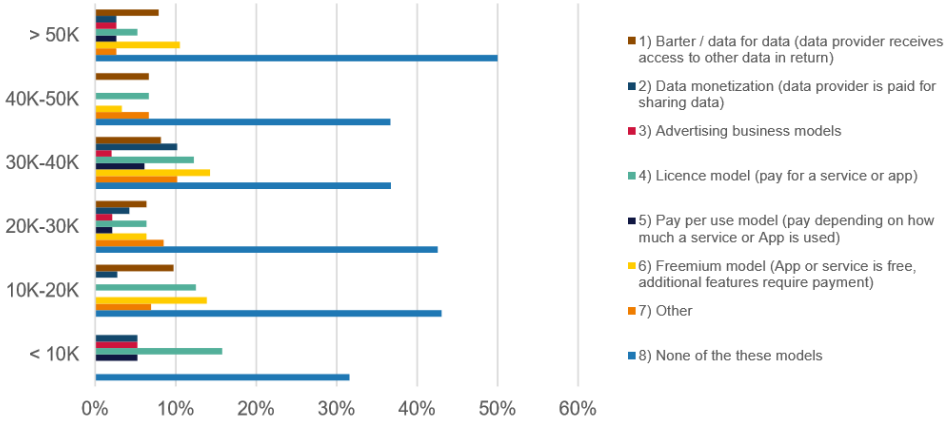

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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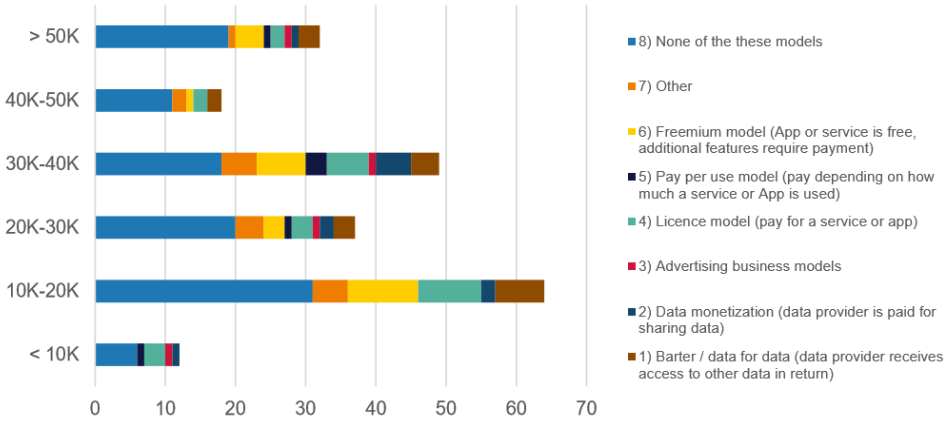

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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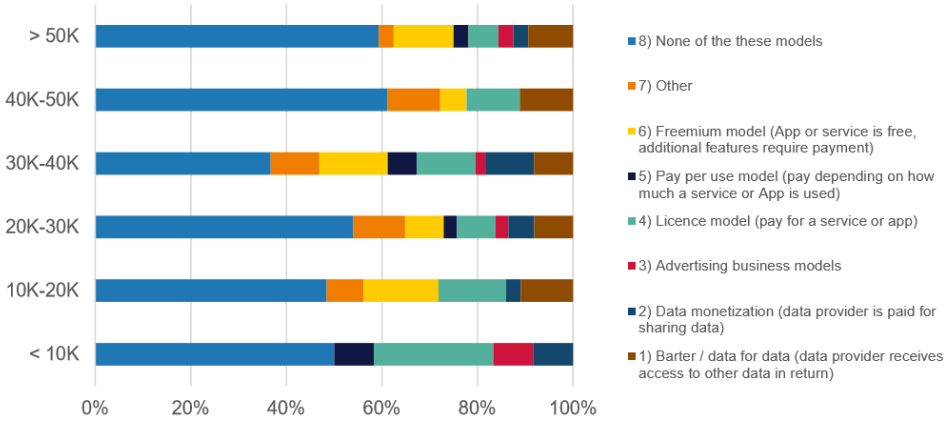

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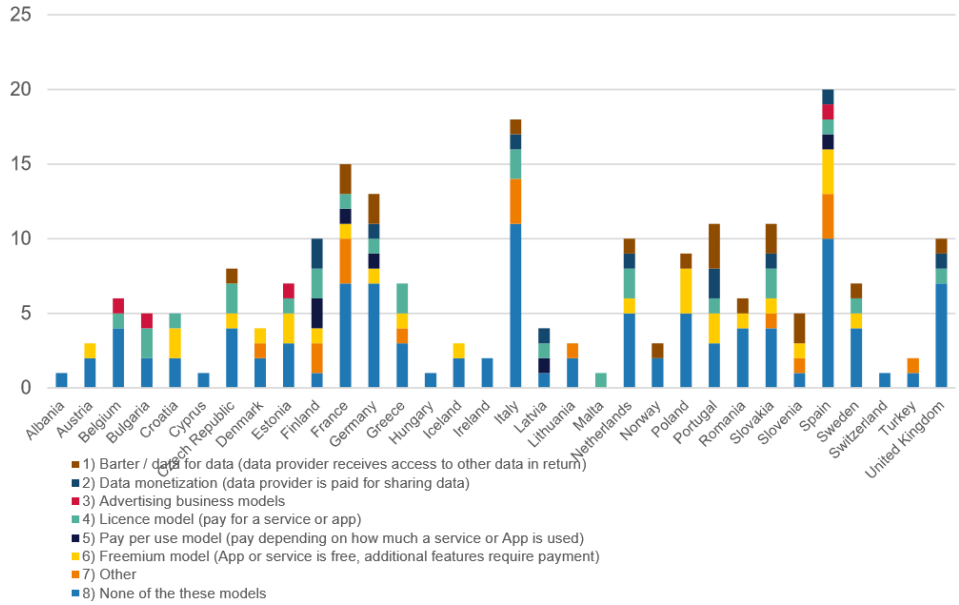

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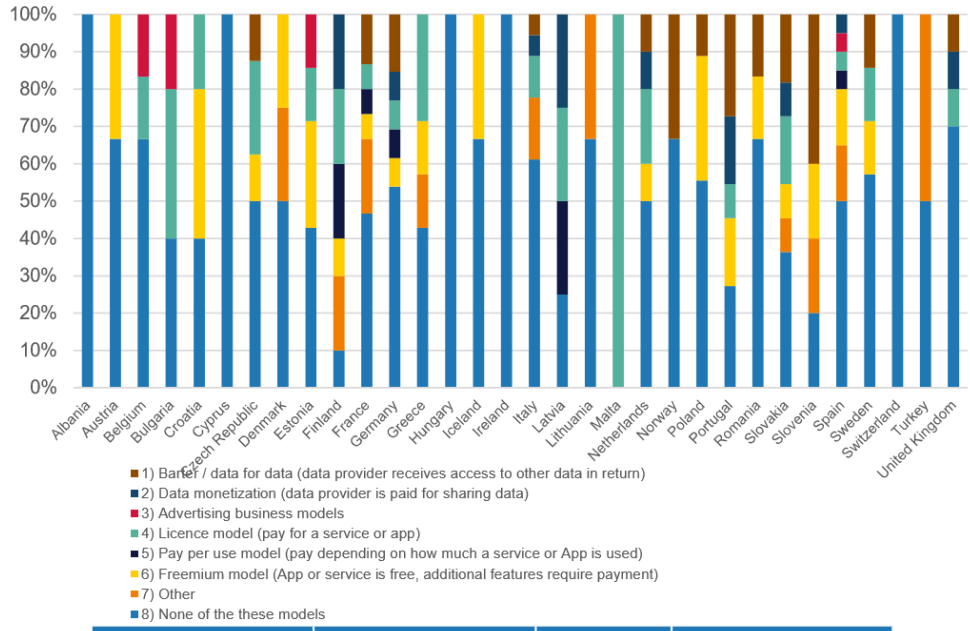


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?

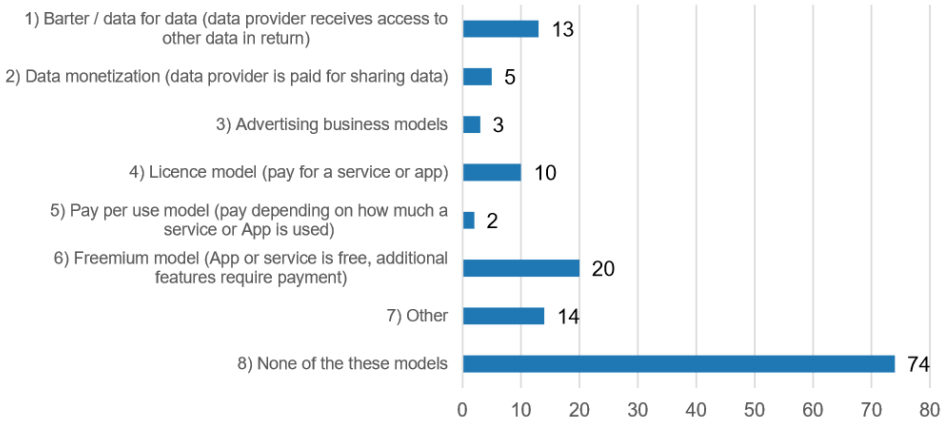
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **121 (78%)**

Answer	*Count*	*Percentage**
1) Barter / data for data (data provider receives access to other data in return)	13	11%
2) Data monetization (data provider is paid for sharing data)	5	4%
3) Advertising business models	3	2%
4) Licence model (pay for a service or app)	10	8%
5) Pay per use model (pay depending on how much a service or App is used)	2	2%
6) Freemium model (App or service is free, additional features require payment)	20	17%
7) Other	14	12%
8) None of the these models	74	61%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

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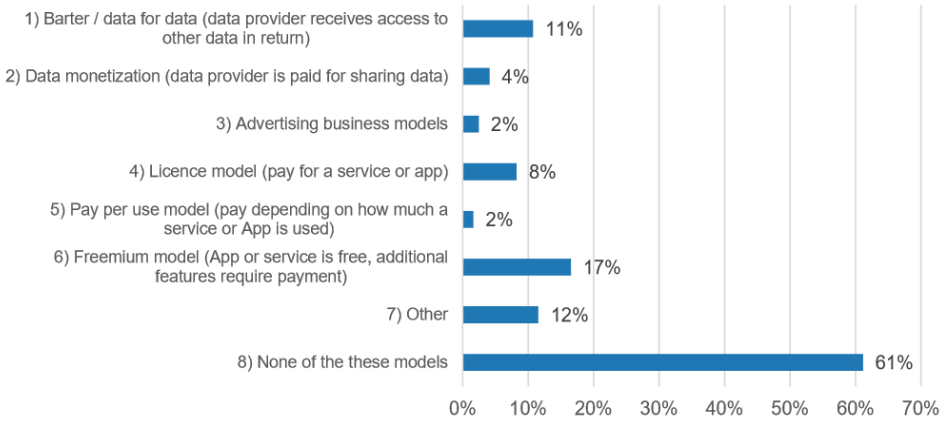
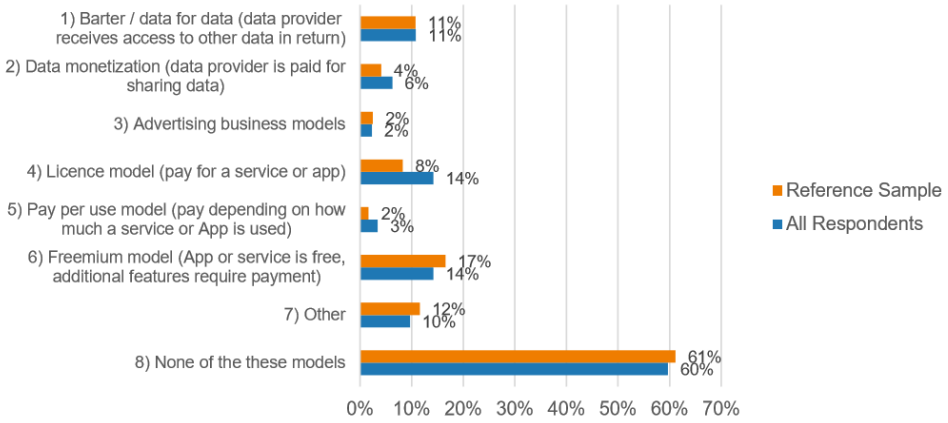


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

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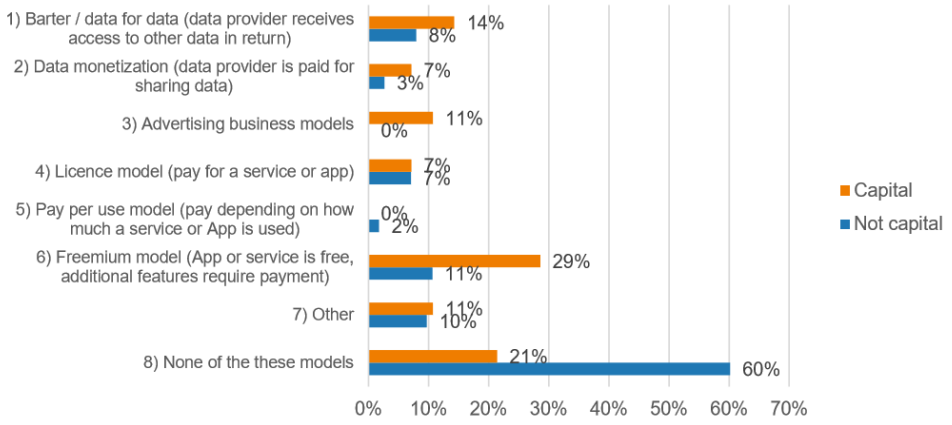
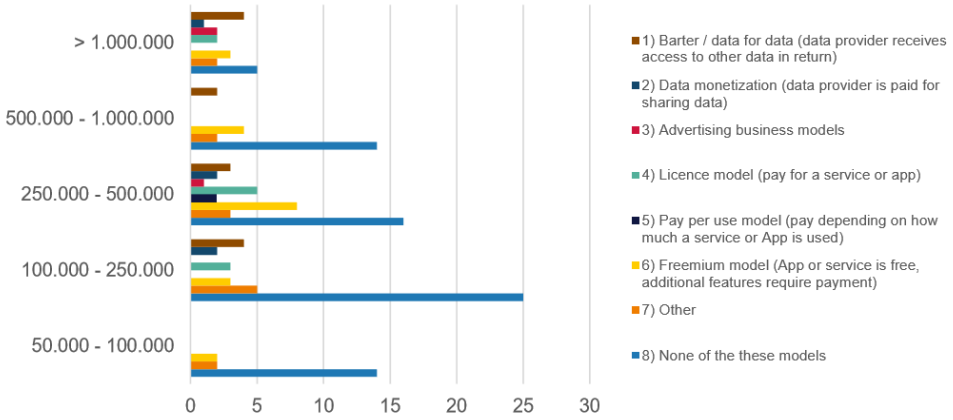


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

5.2.7 Could you describe the business models used by companies linked to the Urban Data Platform (i.e. actually using data provided by the Urban Data Platform)?



Question type	Data sample	Cluster	Value
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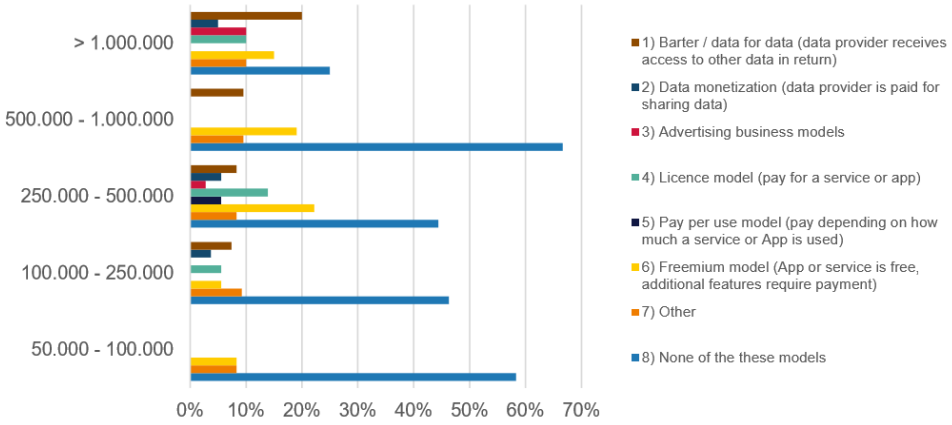

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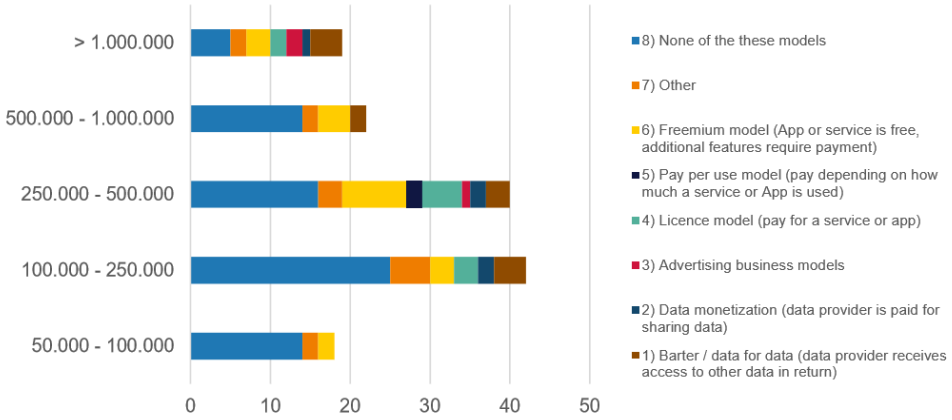

Question type	Data sample	Cluster	Value
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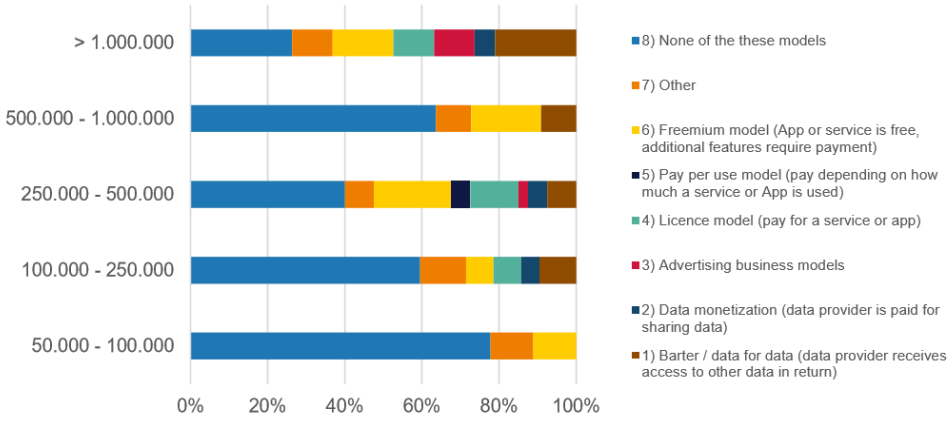

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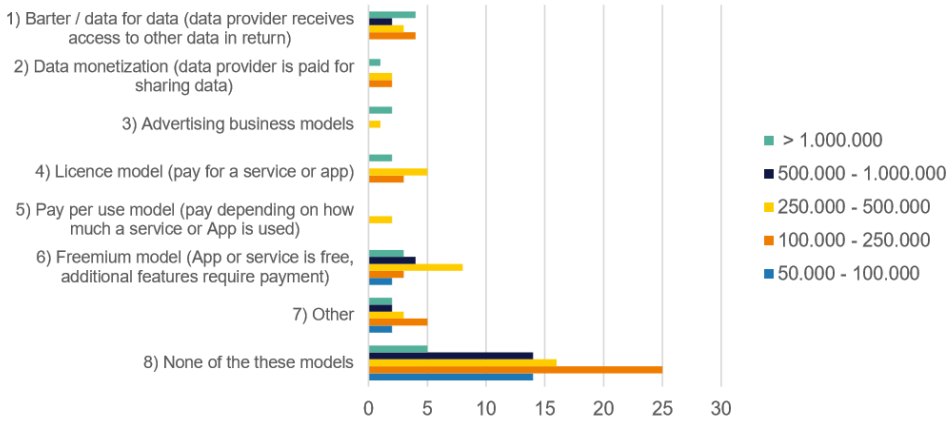

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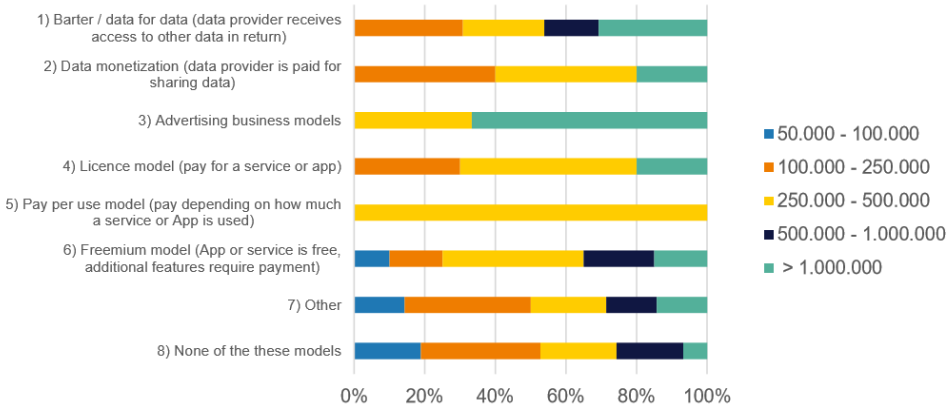
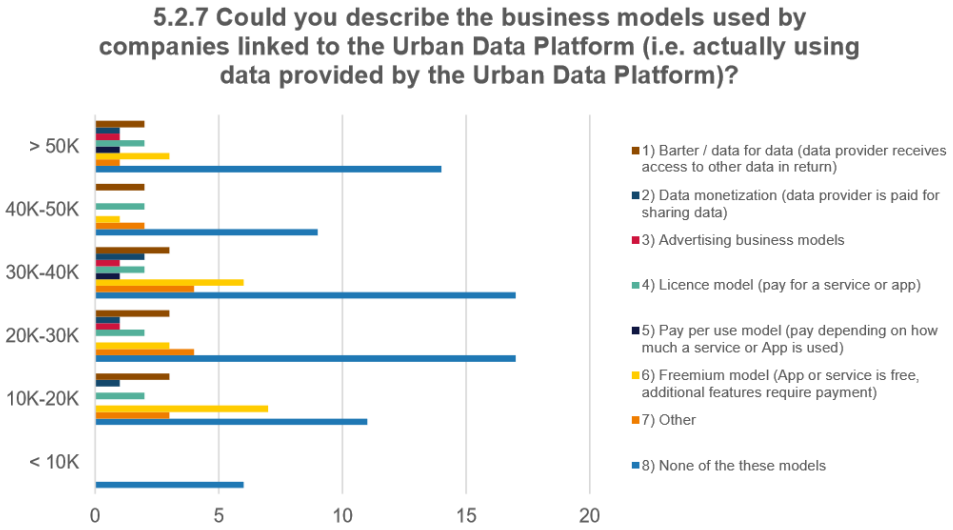


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

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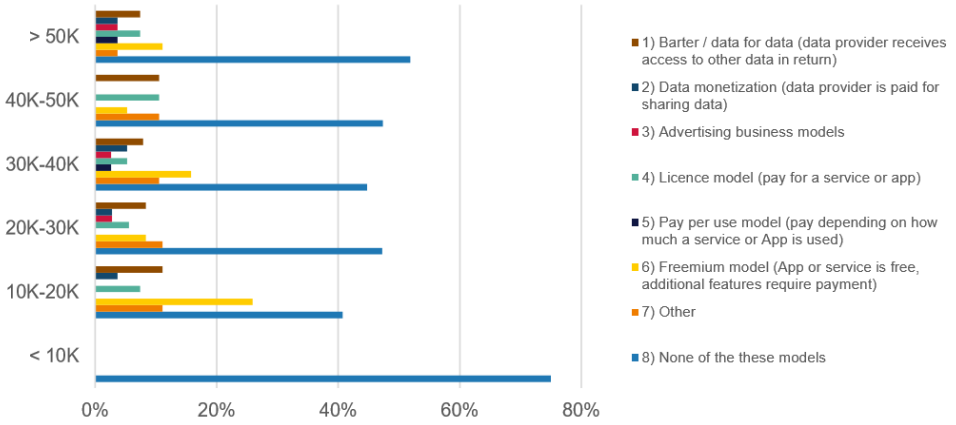

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

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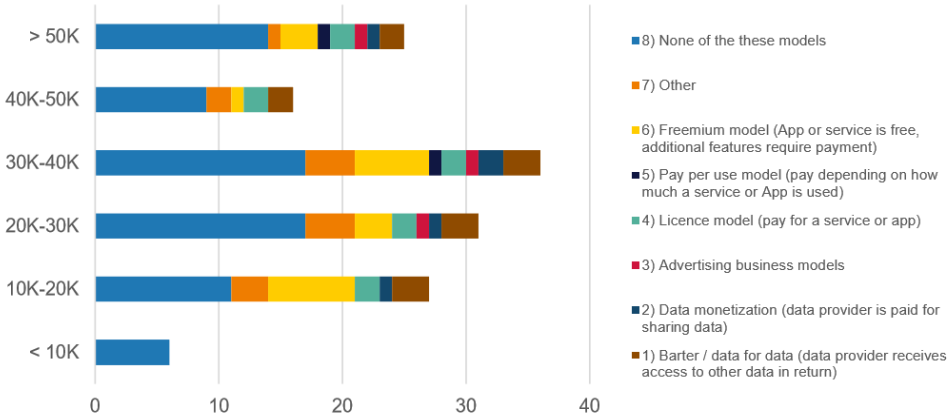

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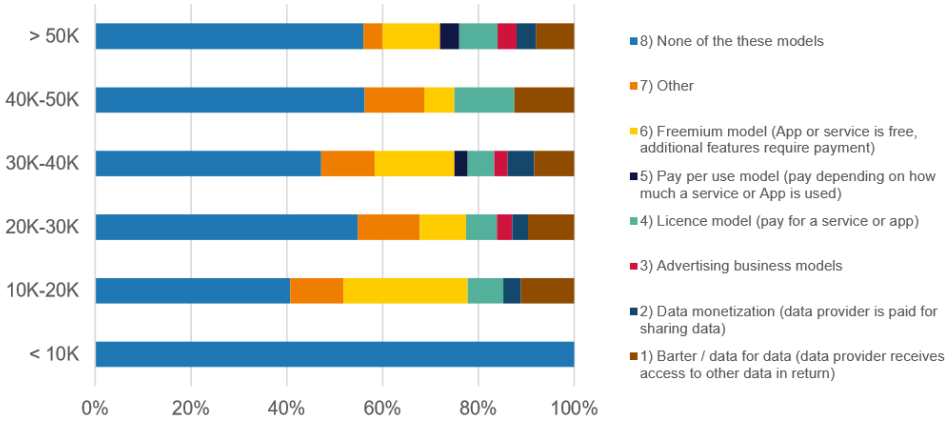

Question type	Data sample	Cluster	Value
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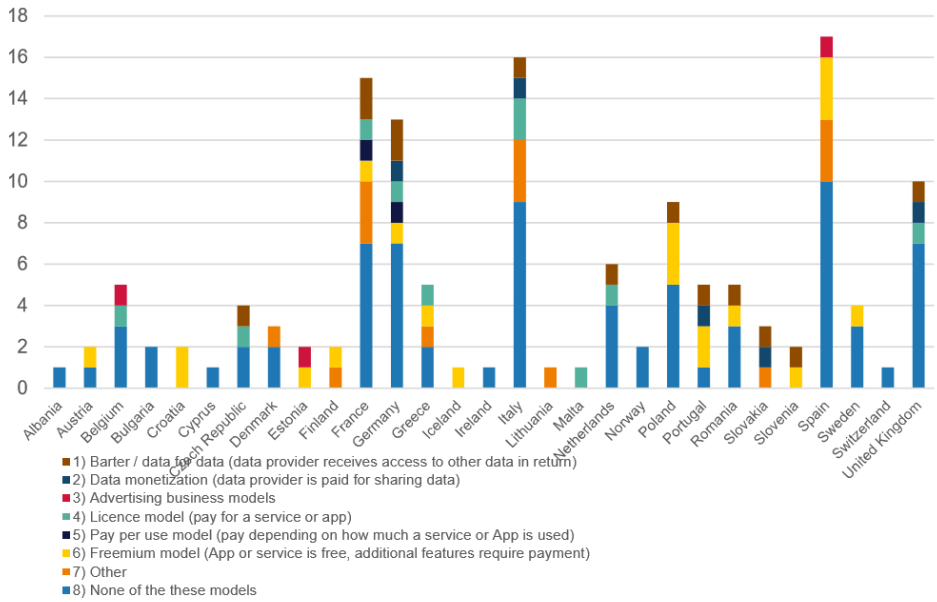

Question type	Data sample	Cluster	Value
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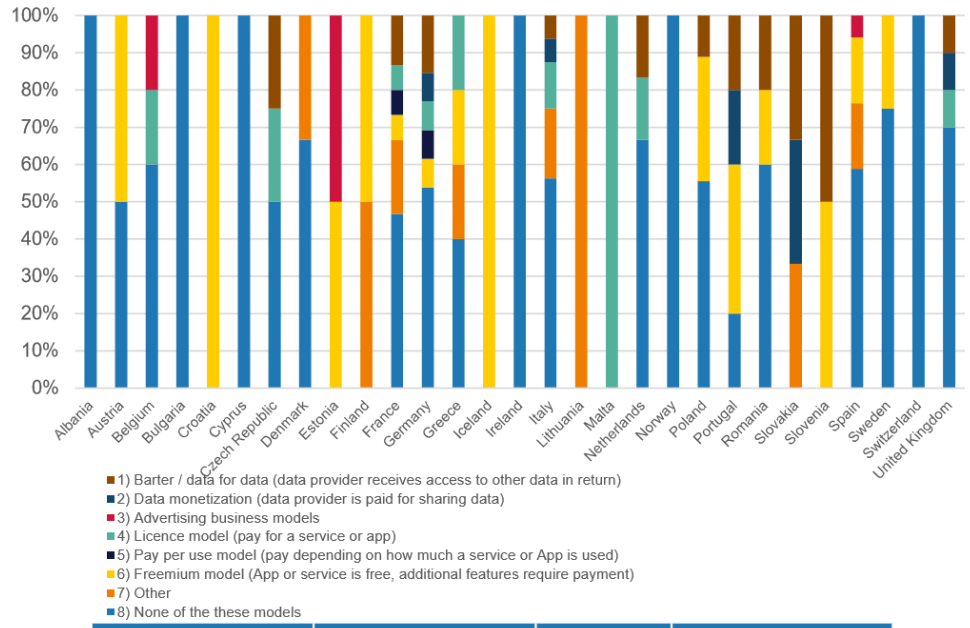


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.34 Q_5.2.7.2 Which of the following data business models are actually supported by the Urban Data Platform?

5.2.7.2 Which of the following data business models are actually supported by the Urban Data Platform?

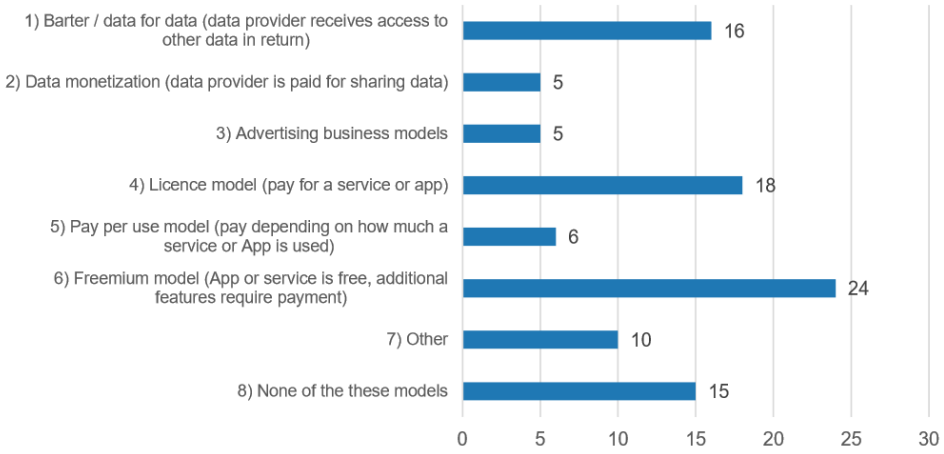
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **73 (30%)**

Answer	*Count*	*Percentage**
1) Barter / data for data (data provider receives access to other data in return)	16	22%
2) Data monetization (data provider is paid for sharing data)	5	7%
3) Advertising business models	5	7%
4) Licence model (pay for a service or app)	18	25%
5) Pay per use model (pay depending on how much a service or App is used)	6	8%
6) Freemium model (App or service is free, additional features require payment)	24	33%
7) Other	10	14%
8) None of the these models	15	21%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.2.7.2 Which of the following data business models are actually supported by the Urban Data Platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

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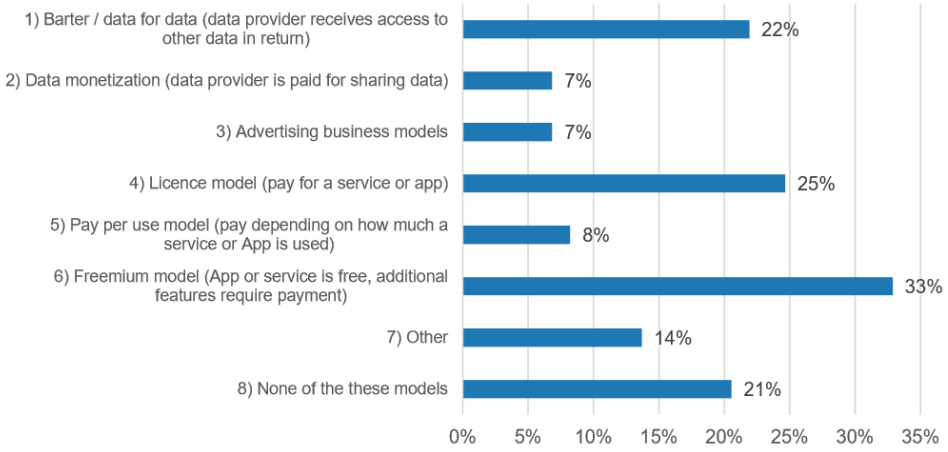

Question type	Data sample	Cluster	Value
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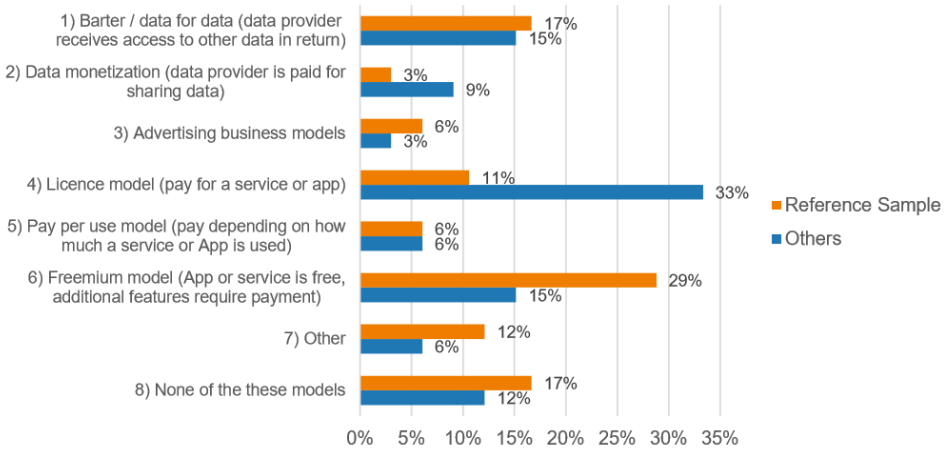

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

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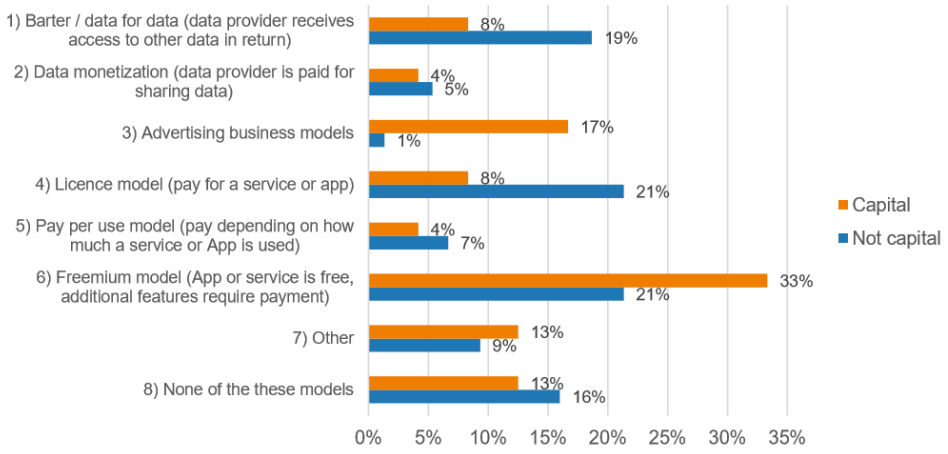

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

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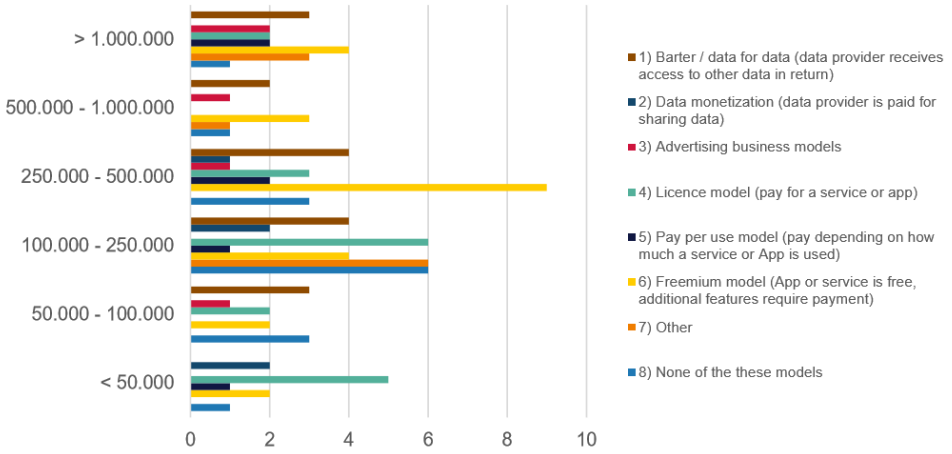

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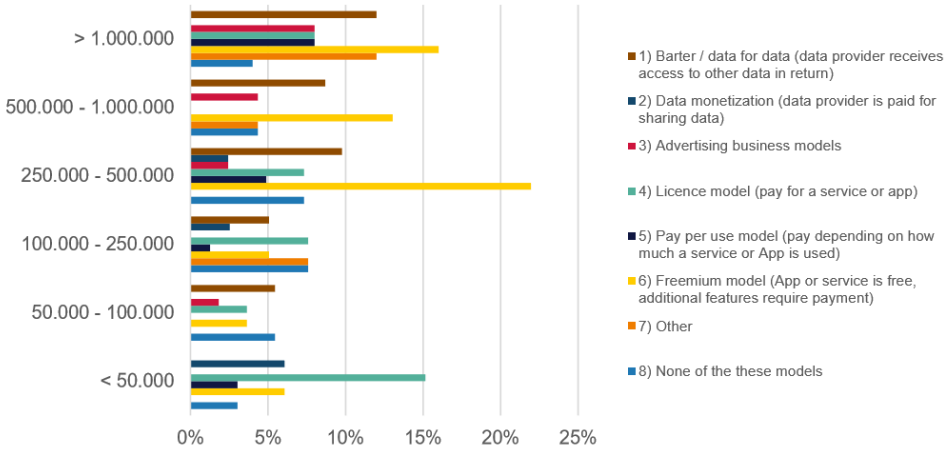

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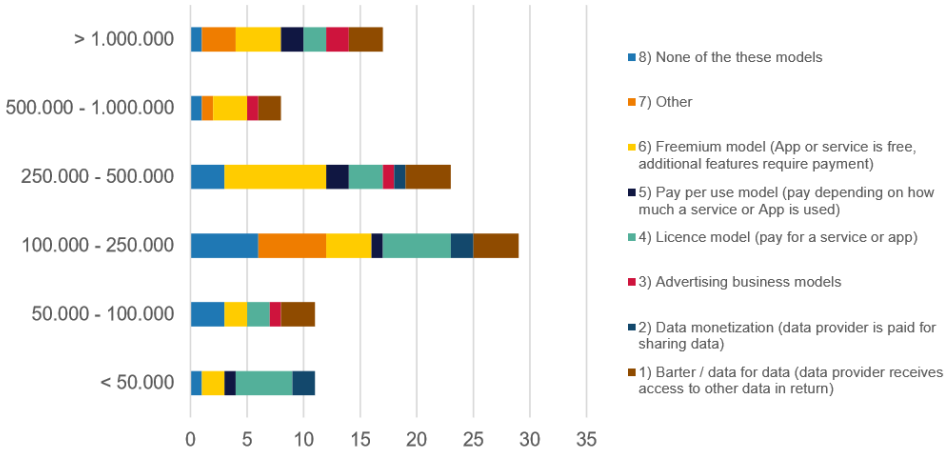

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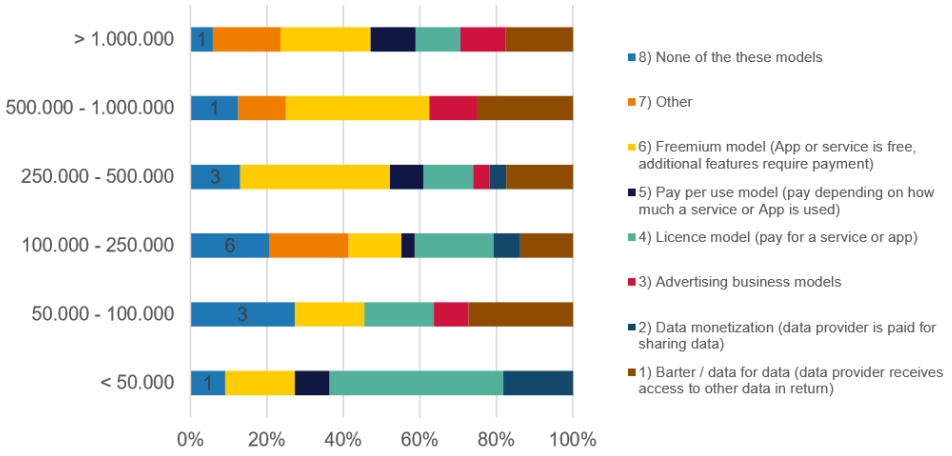

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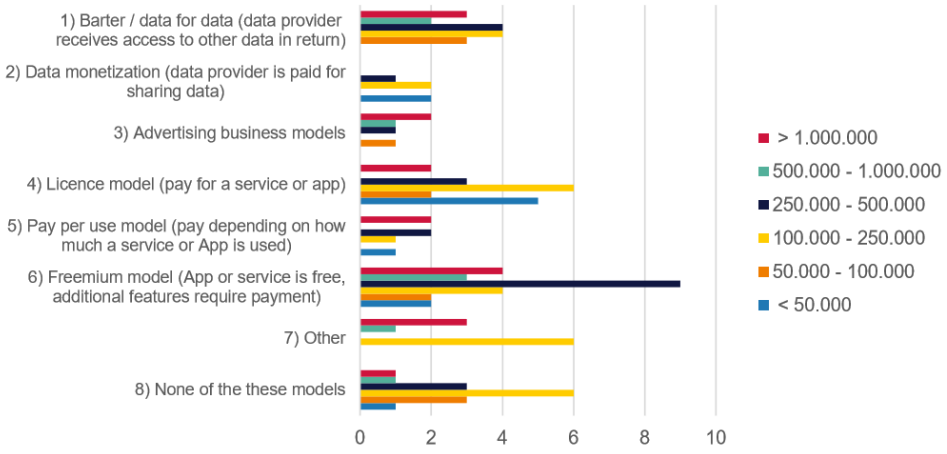

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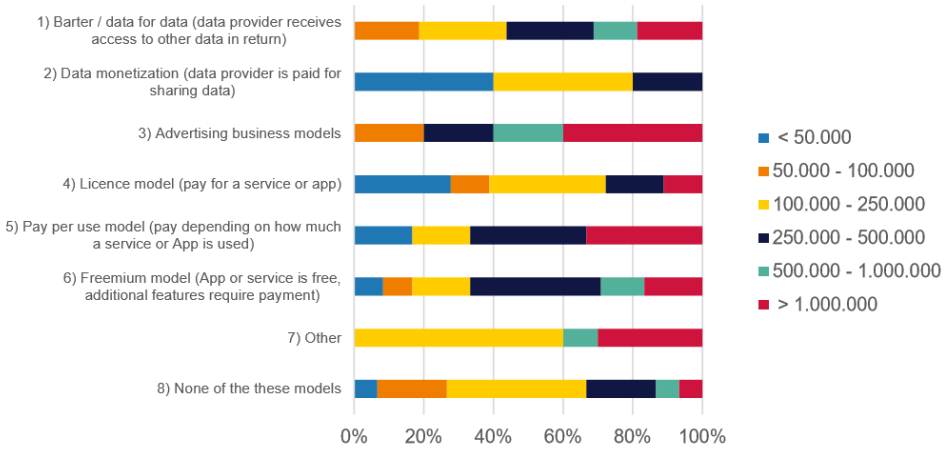

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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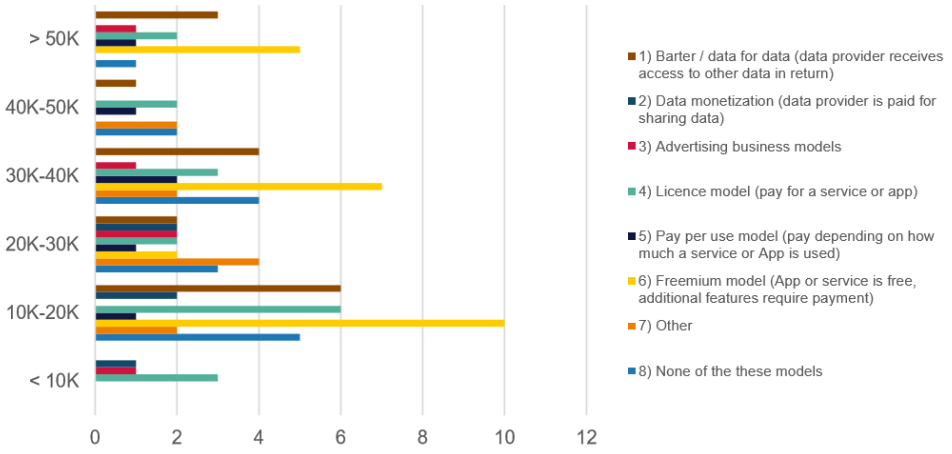

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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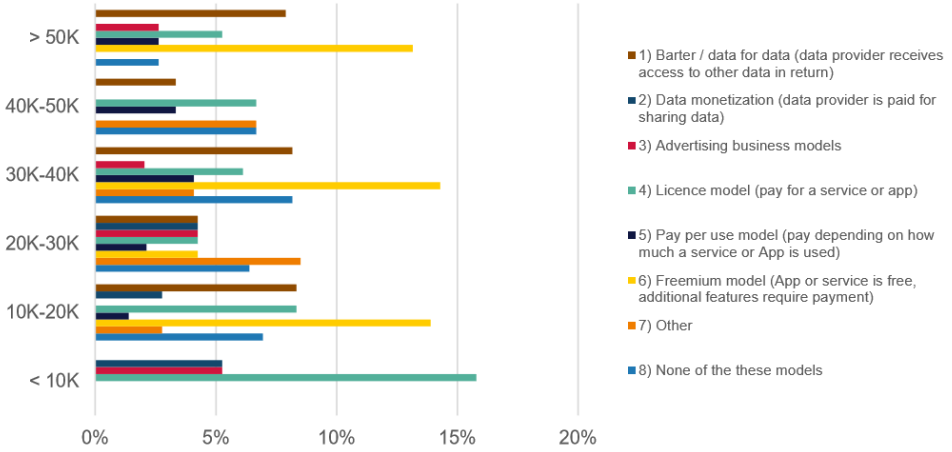

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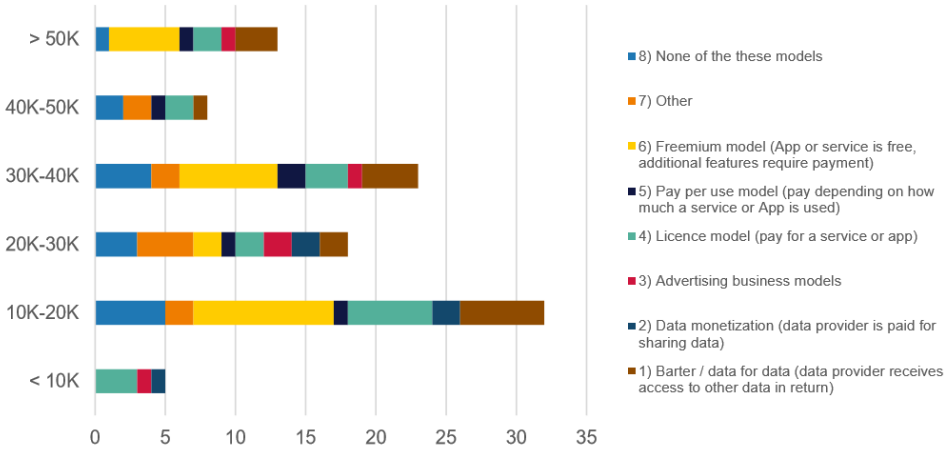

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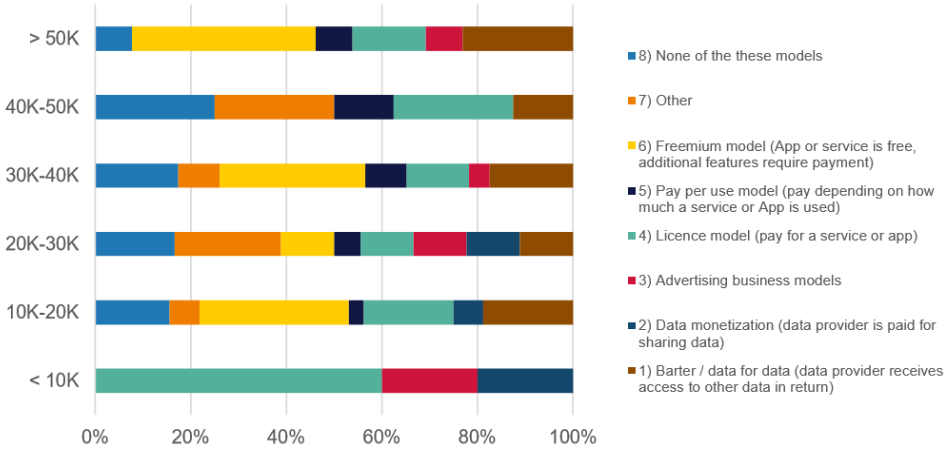
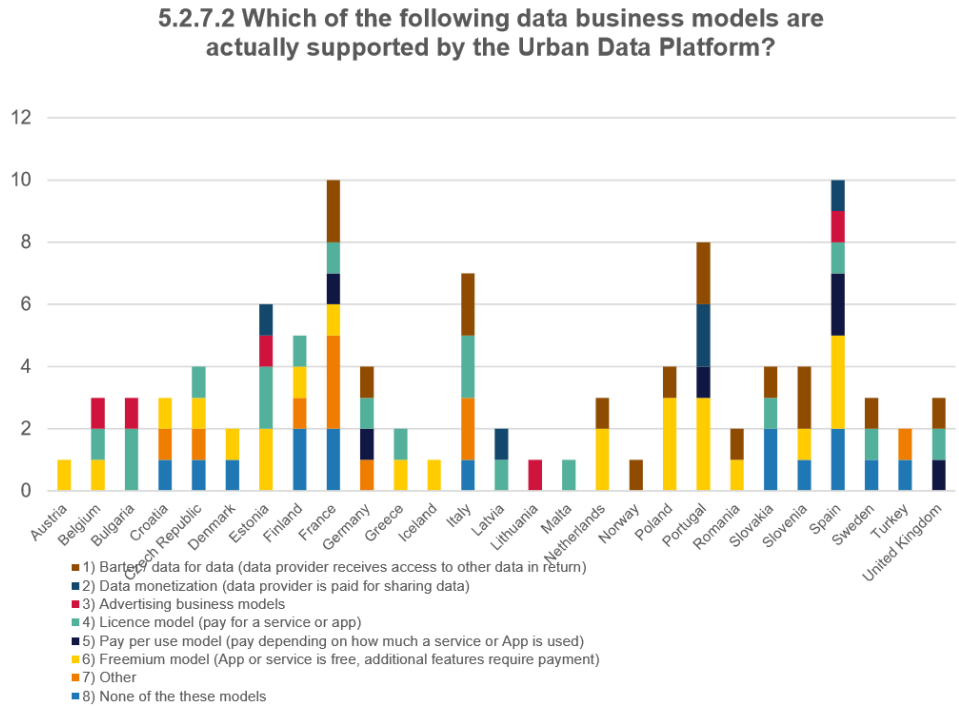


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage



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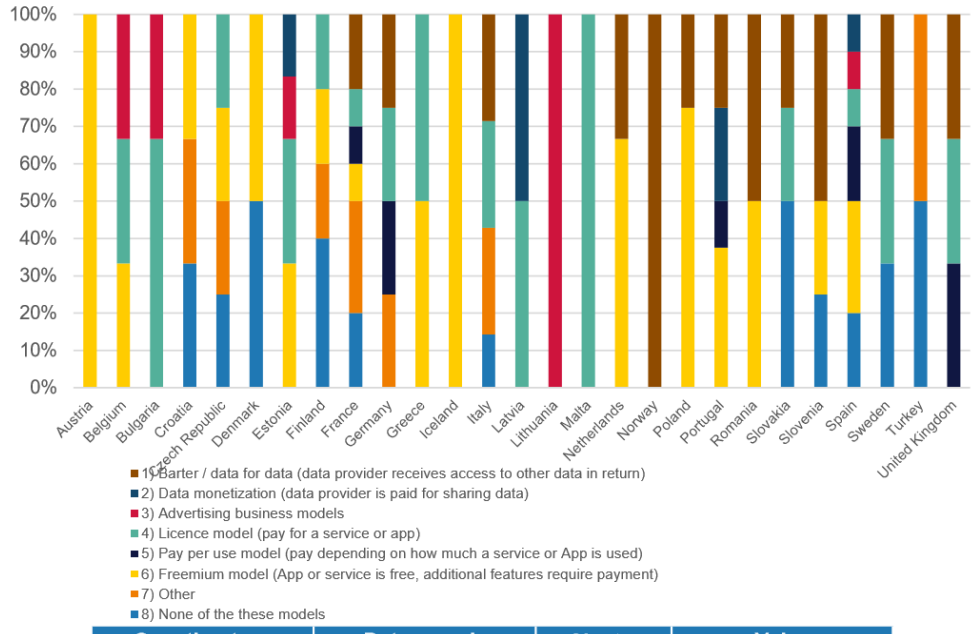

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.2.7.2 Which of the following data business models are actually supported by the Urban Data Platform?

REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **48 (31%)**

Answer	*Count*	*Percentage**
1) Barter / data for data (data provider receives access to other data in return)	11	23%
2) Data monetization (data provider is paid for sharing data)	2	4%
3) Advertising business models	4	8%
4) Licence model (pay for a service or app)	7	15%
5) Pay per use model (pay depending on how much a service or App is used)	4	8%
6) Freemium model (App or service is free, additional features require payment)	19	40%
7) Other	8	17%
8) None of the these models	11	23%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

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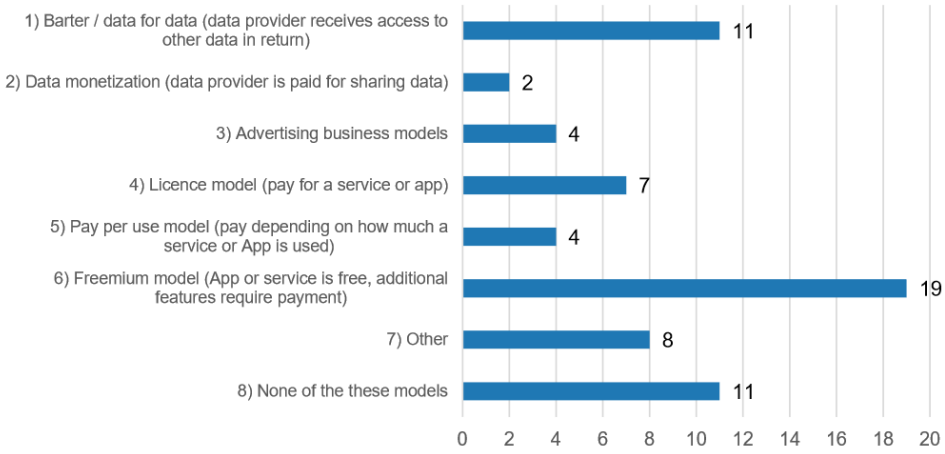

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

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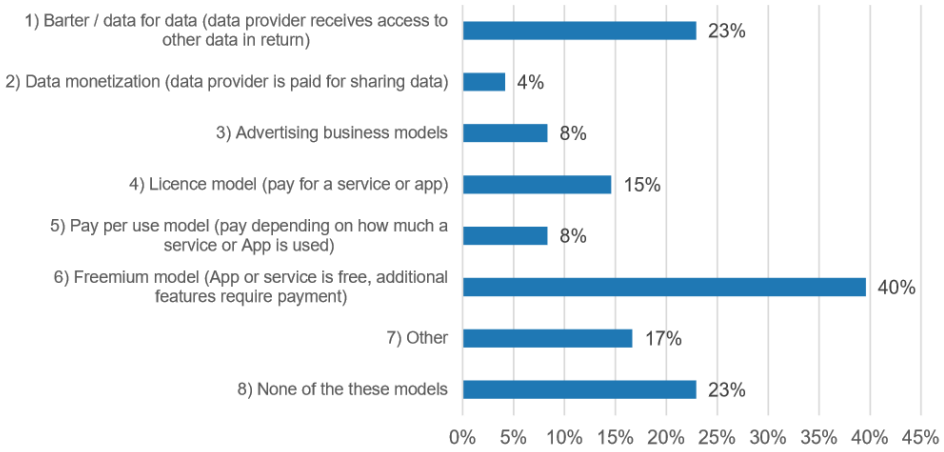

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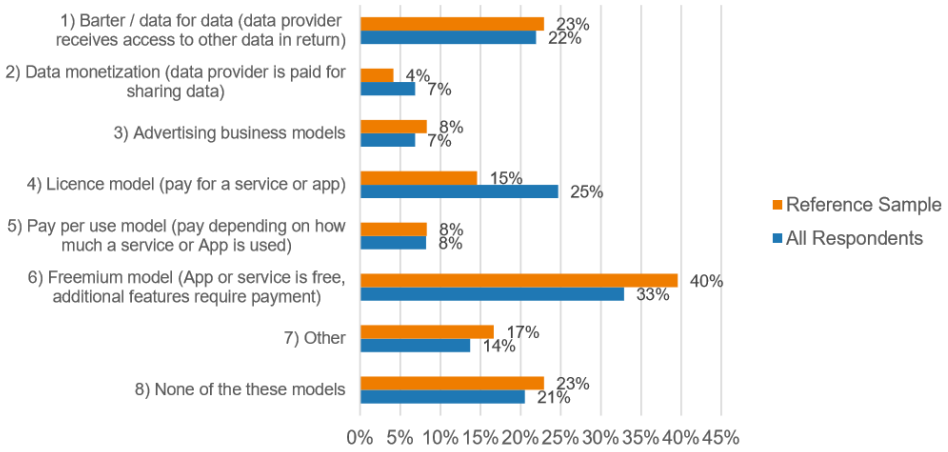

Question type	Data sample	Cluster	Value
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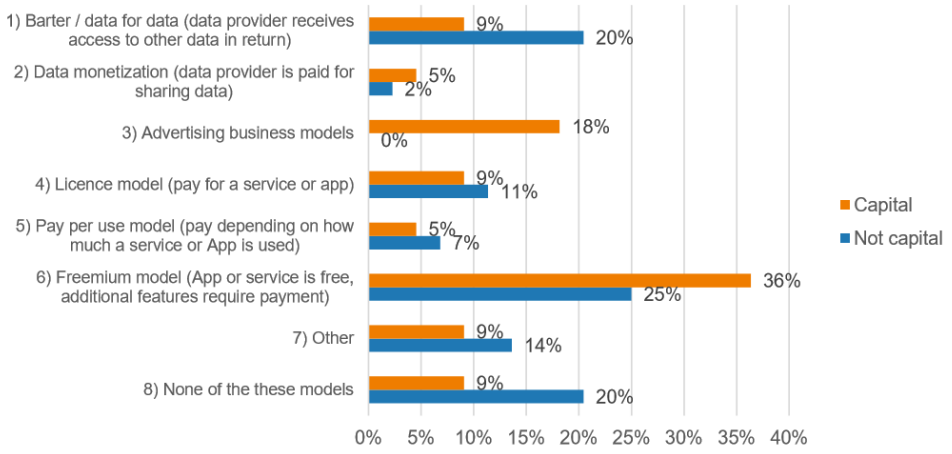

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

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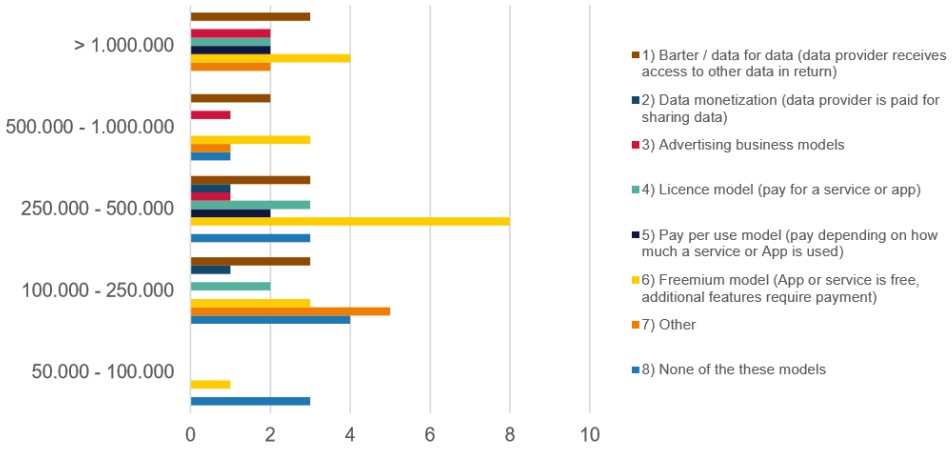

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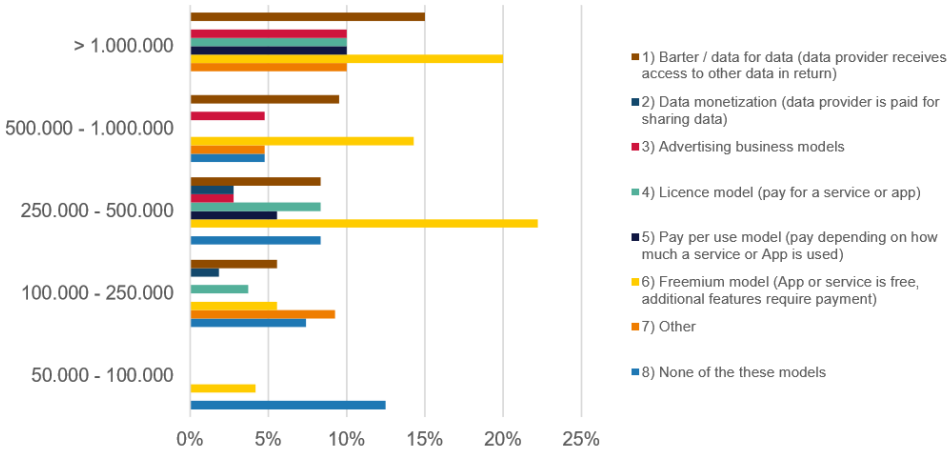

Question type	Data sample	Cluster	Value
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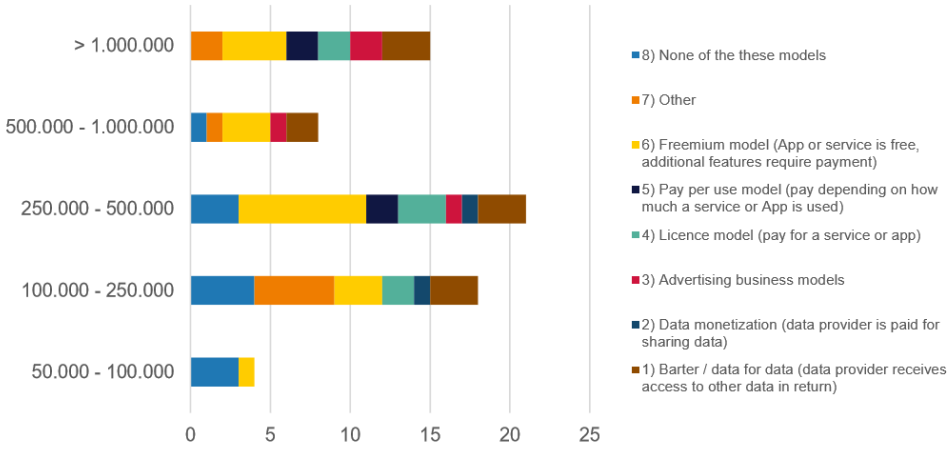

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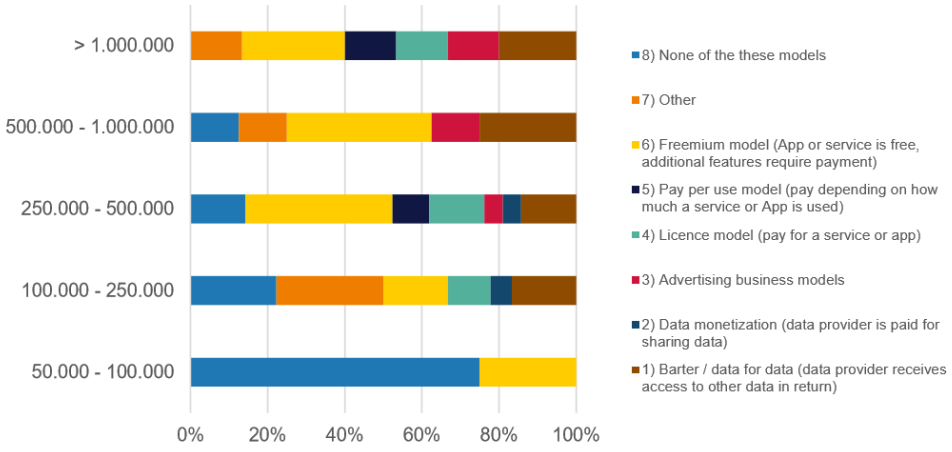

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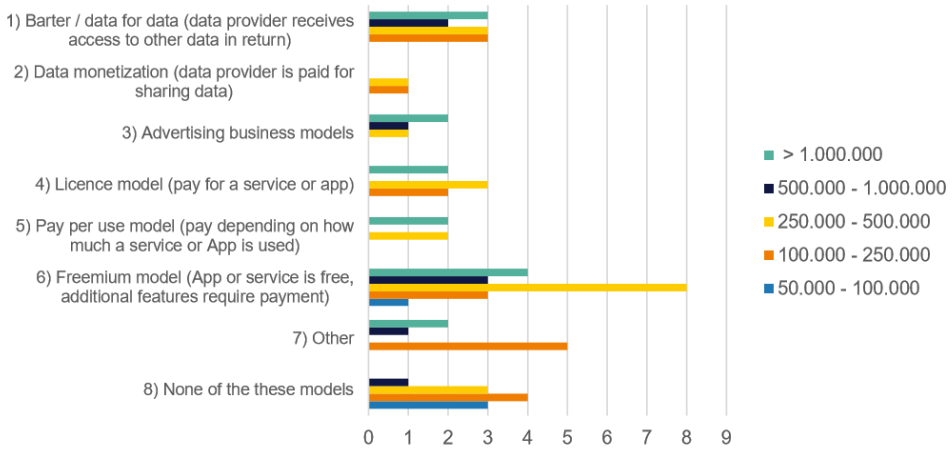

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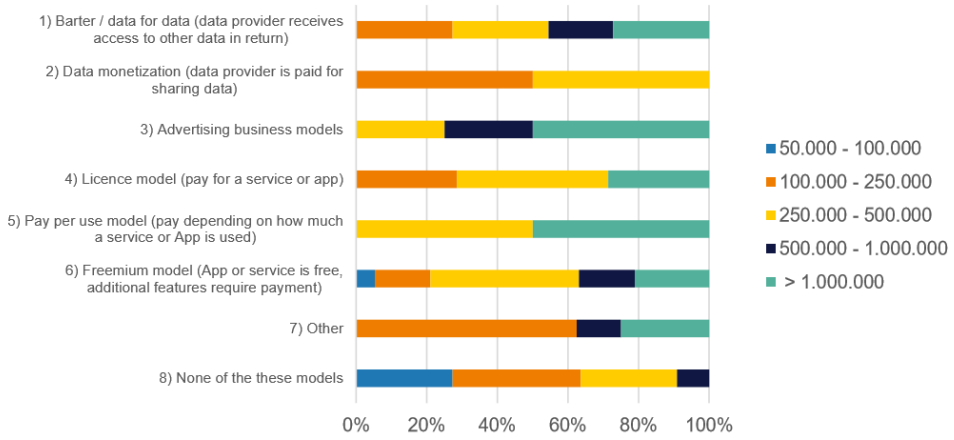
5.2.7.2 Which of the following data business models are actually supported by the Urban Data Platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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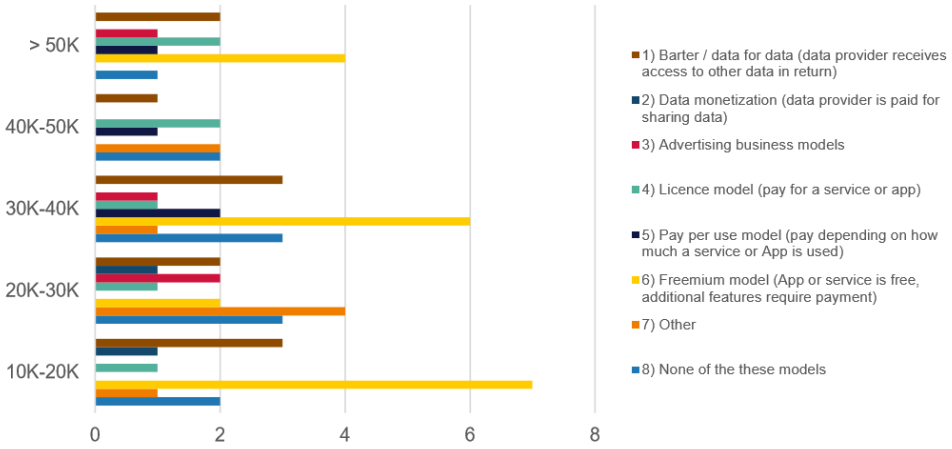
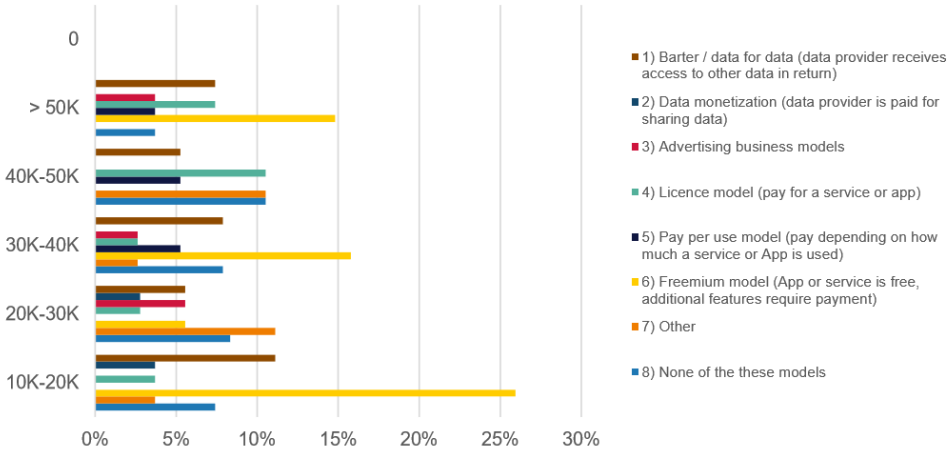


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.2.7.2 Which of the following data business models are actually supported by the Urban Data Platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

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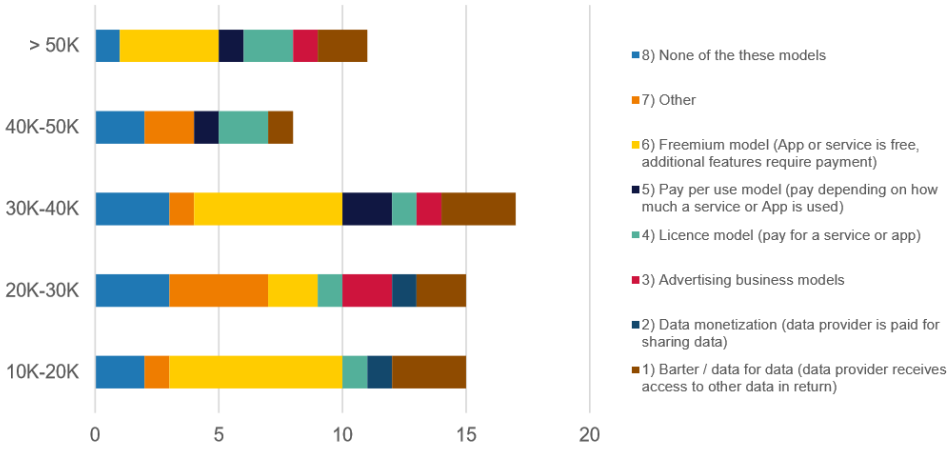

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

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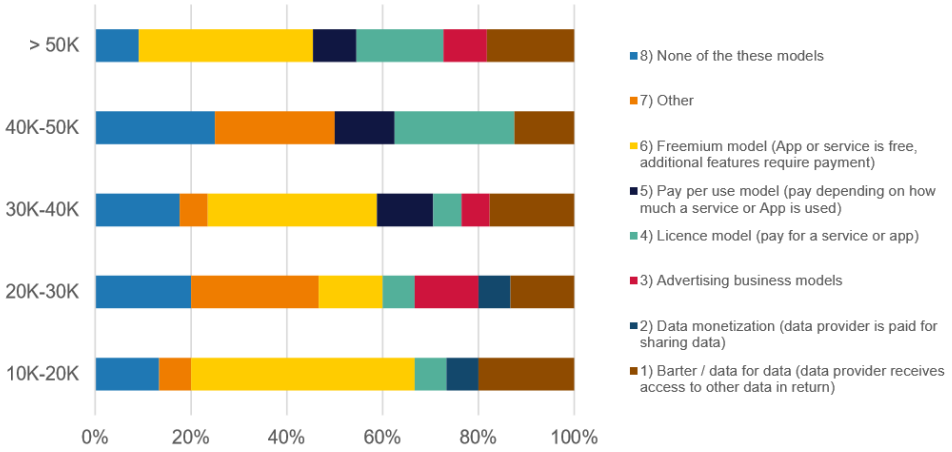

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

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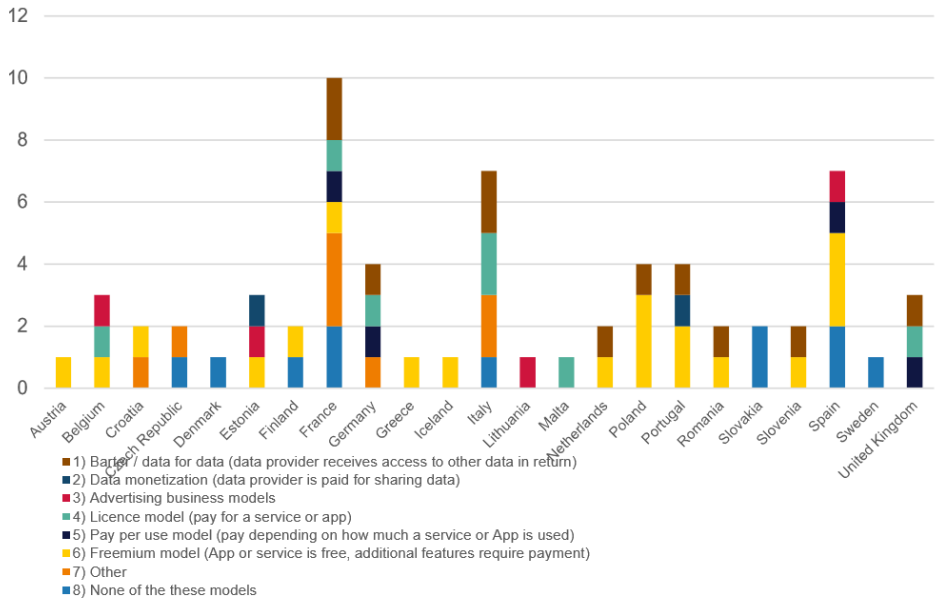

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

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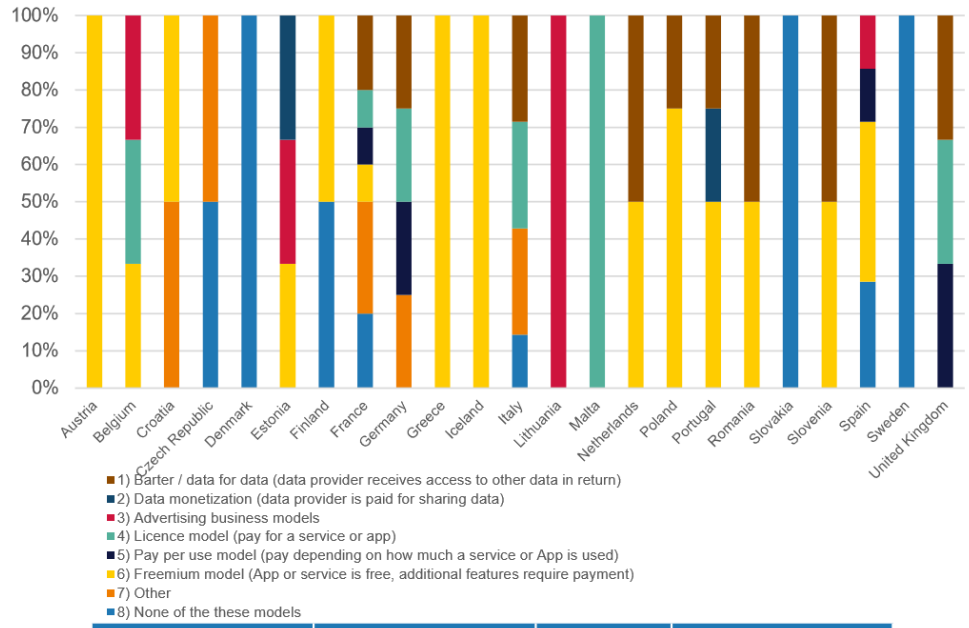


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.35 Q_5.3 Has your public authority developed an Interoperability Framework or Strategy?

5.3 Has your public authority developed an Interoperability Framework or Strategy?

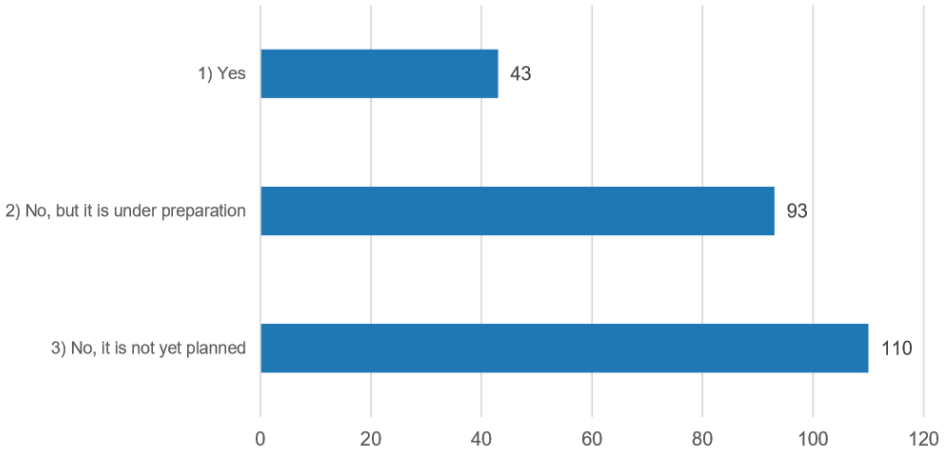
ALL RESPONDENTS

Question type: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	43	17%
2) No, but it is under preparation	93	38%
3) No, it is not yet planned	110	45%

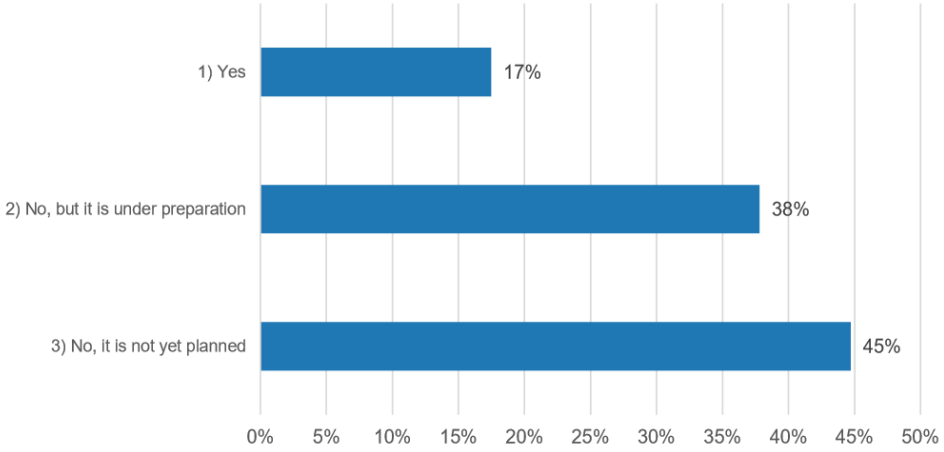
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.3 Has your public authority developed an Interoperability Framework or Strategy?



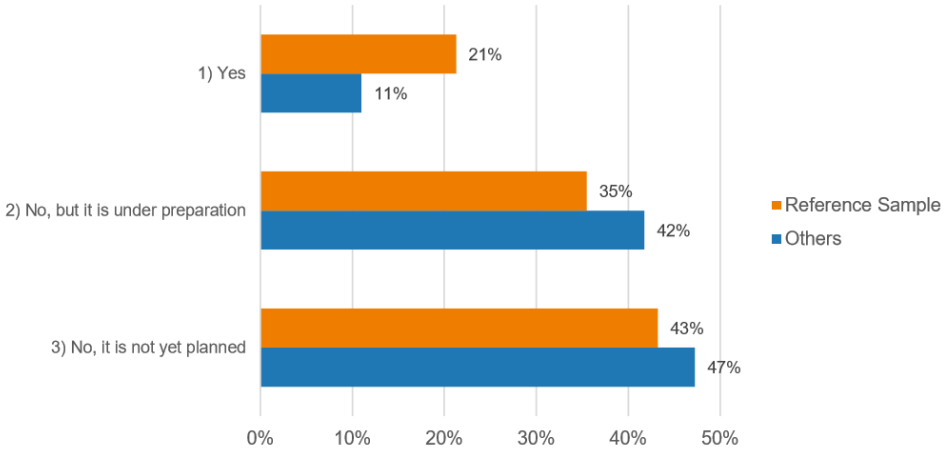
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

5.3 Has your public authority developed an Interoperability Framework or Strategy?



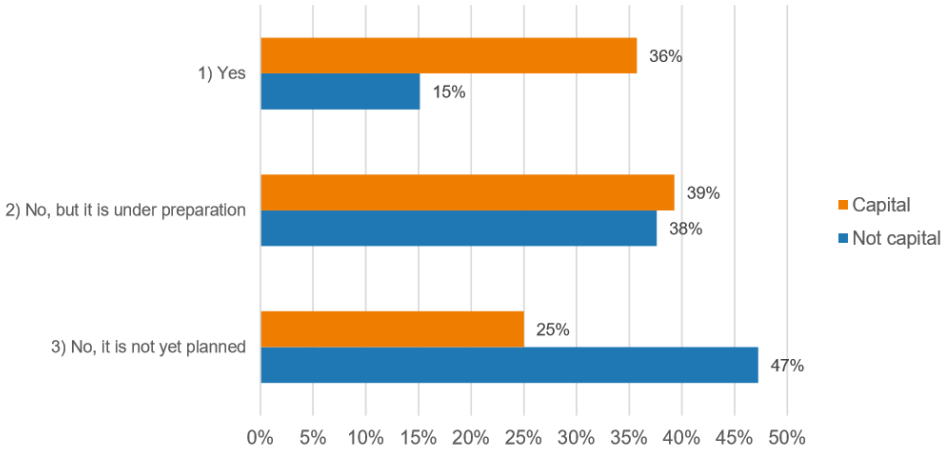
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?



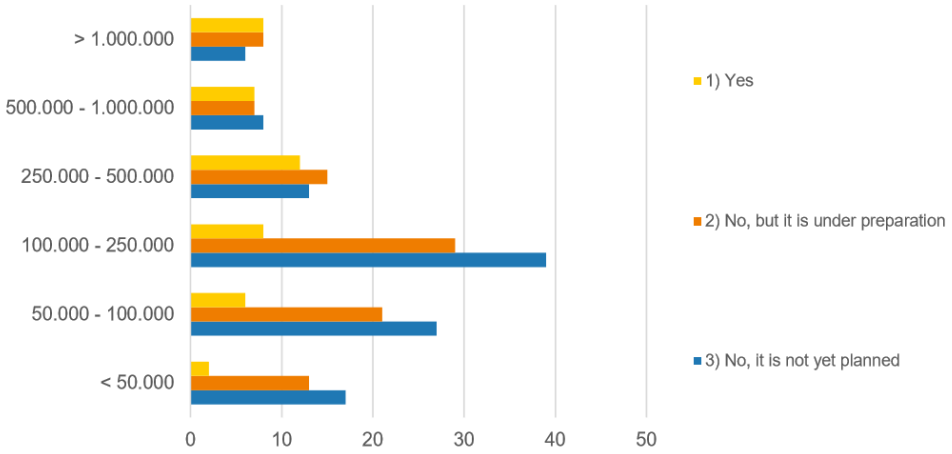
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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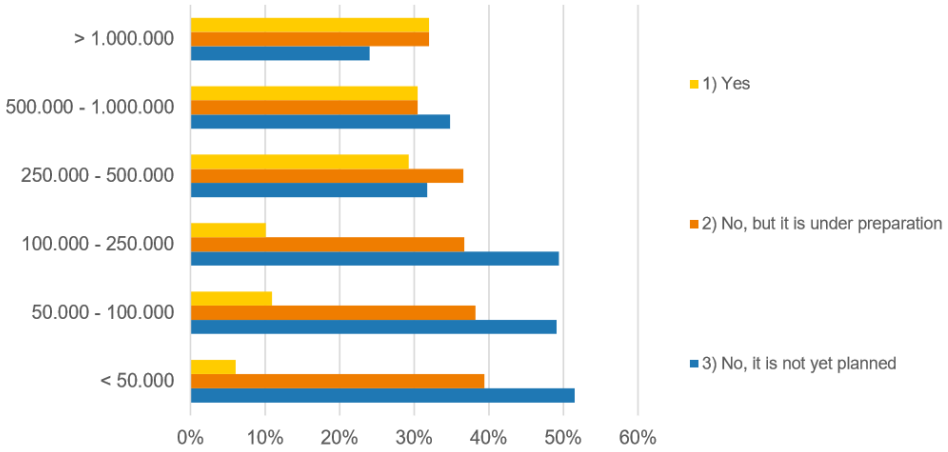

Question type	Data sample	Cluster	Value
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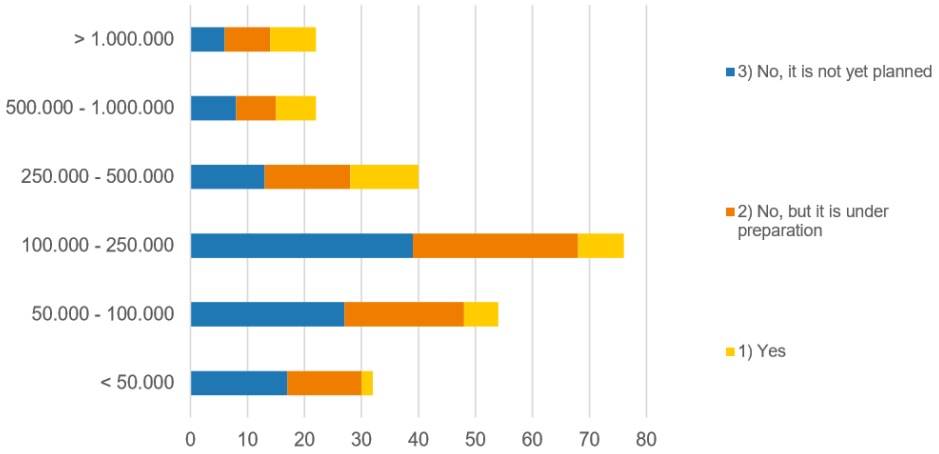

Question type	Data sample	Cluster	Value
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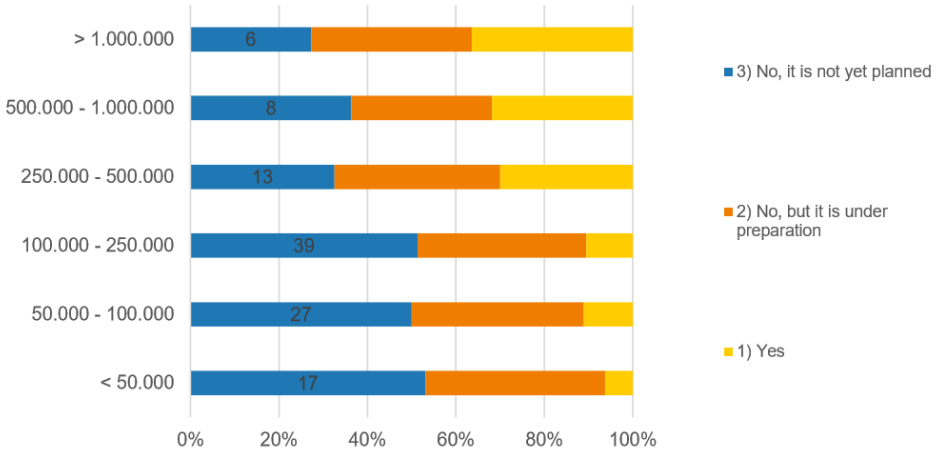

Question type	Data sample	Cluster	Value
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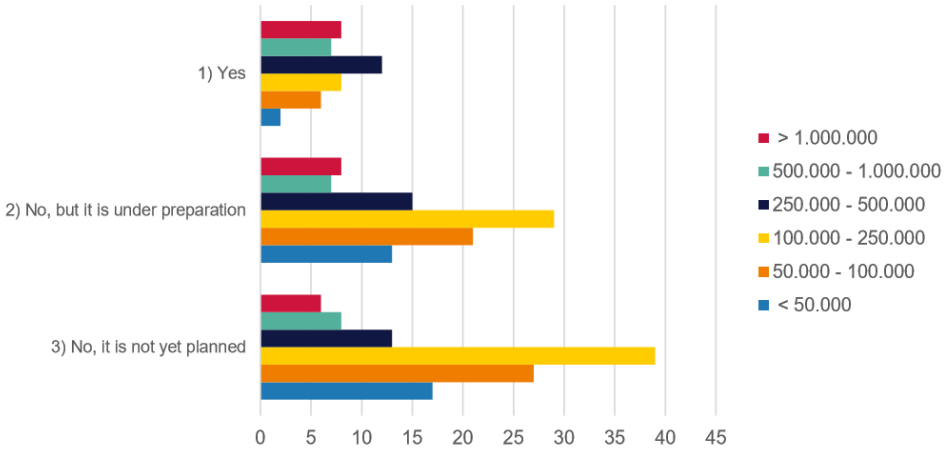

Question type	Data sample	Cluster	Value
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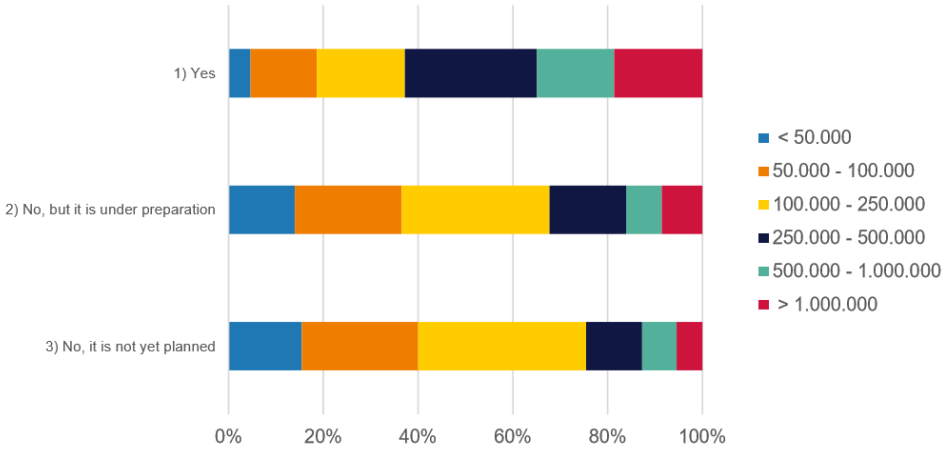

Question type	Data sample	Cluster	Value
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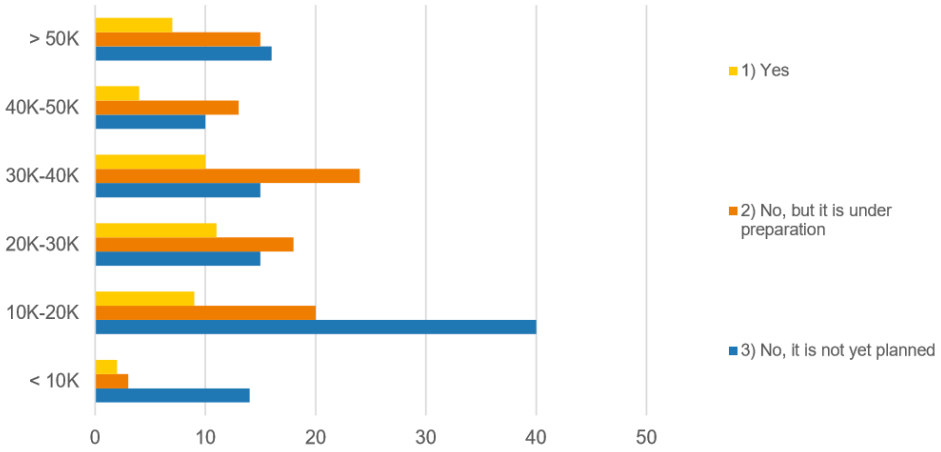
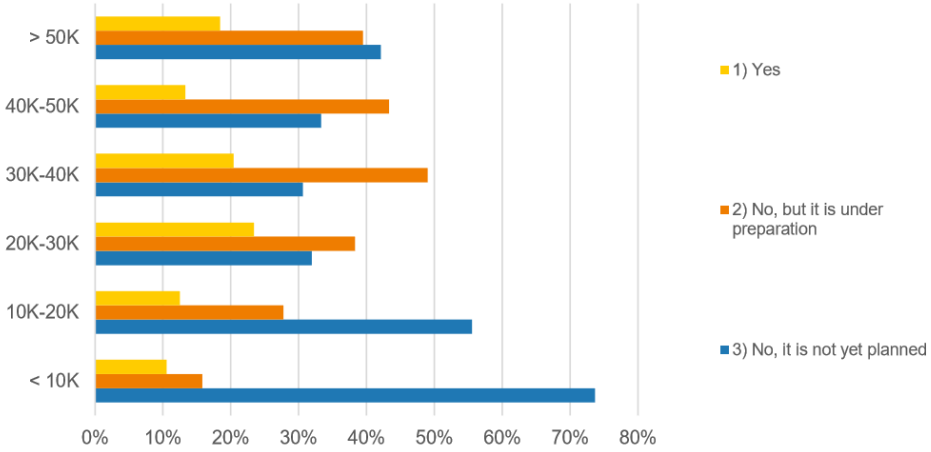


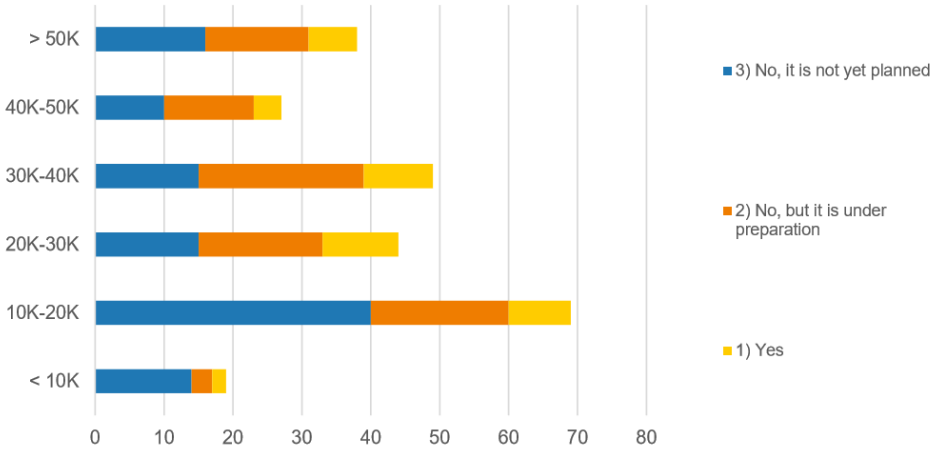
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
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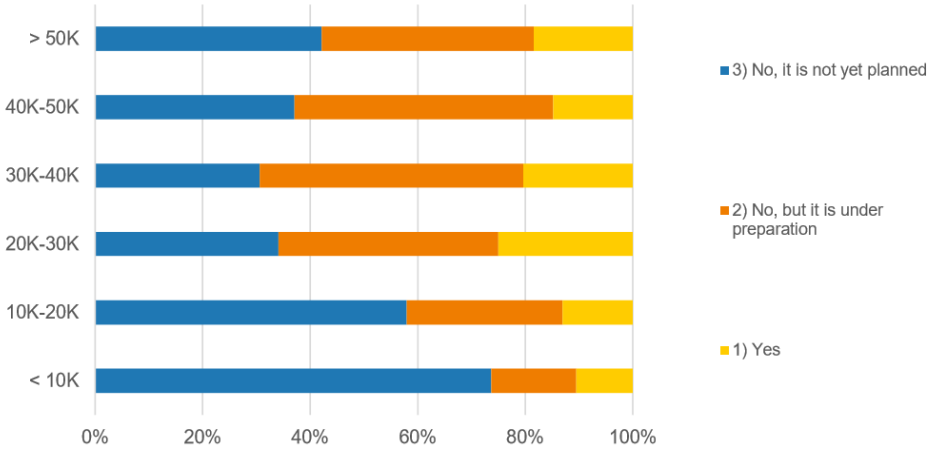
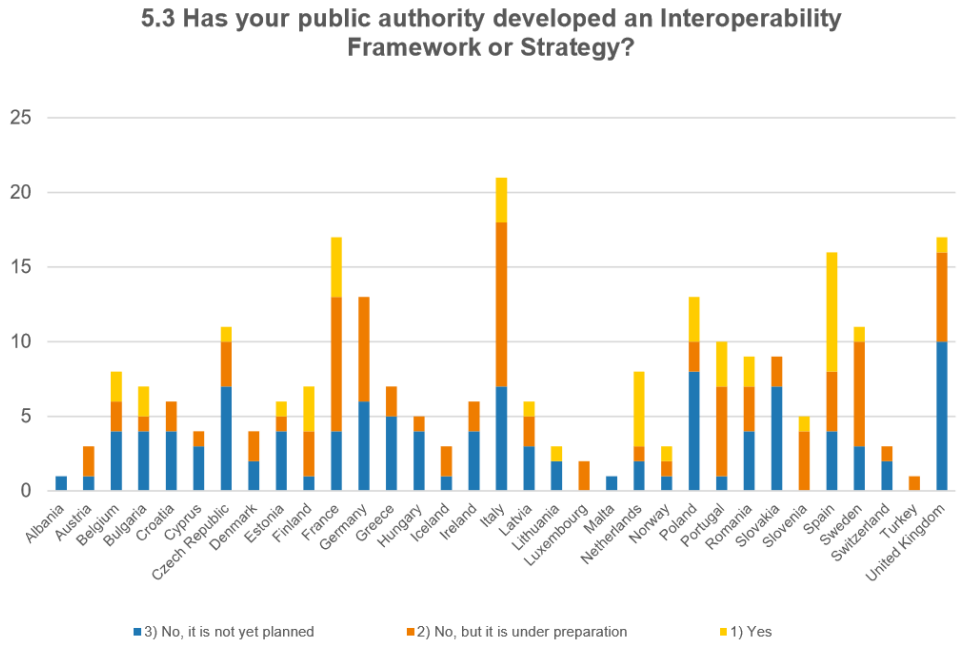
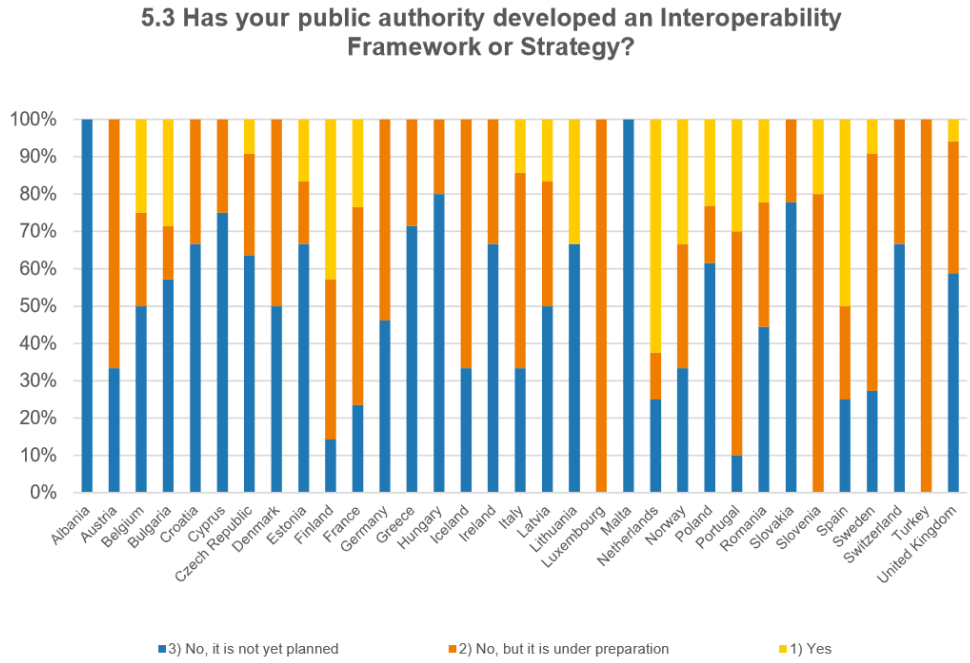


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?

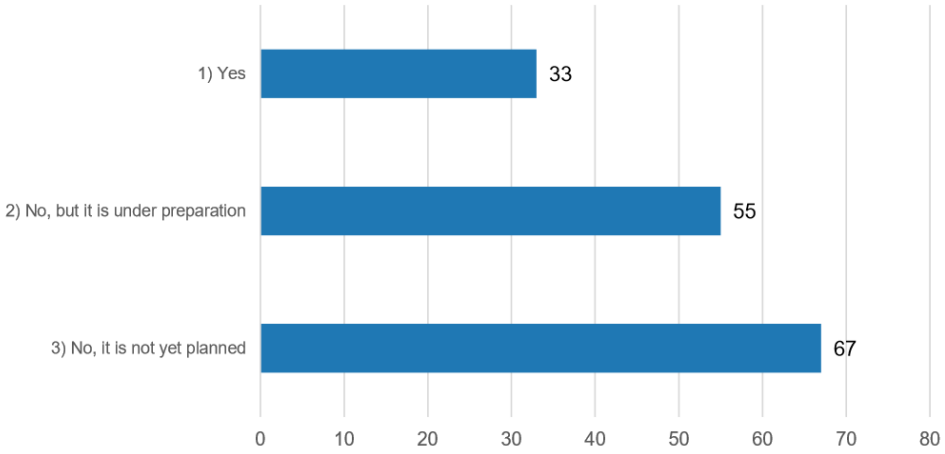
REFERENCE SAMPLE

Question type: ***Single choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	33	21%
2) No, but it is under preparation	55	35%
3) No, it is not yet planned	67	43%

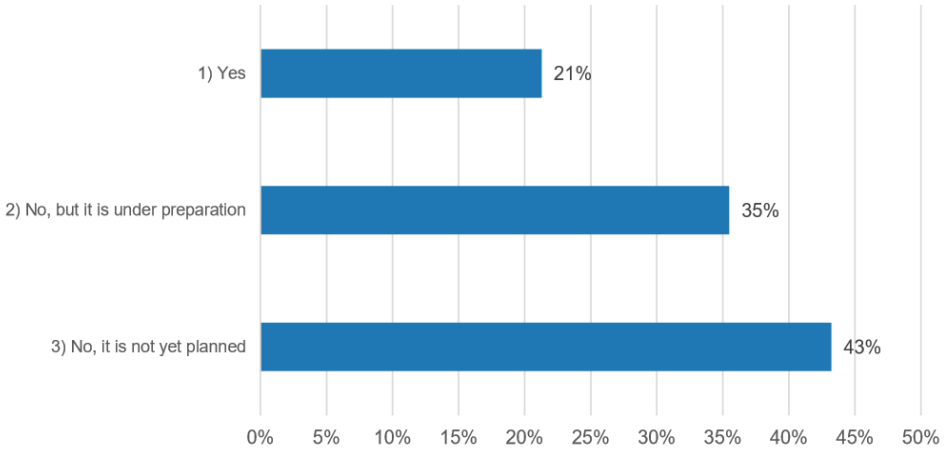
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.3 Has your public authority developed an Interoperability Framework or Strategy?



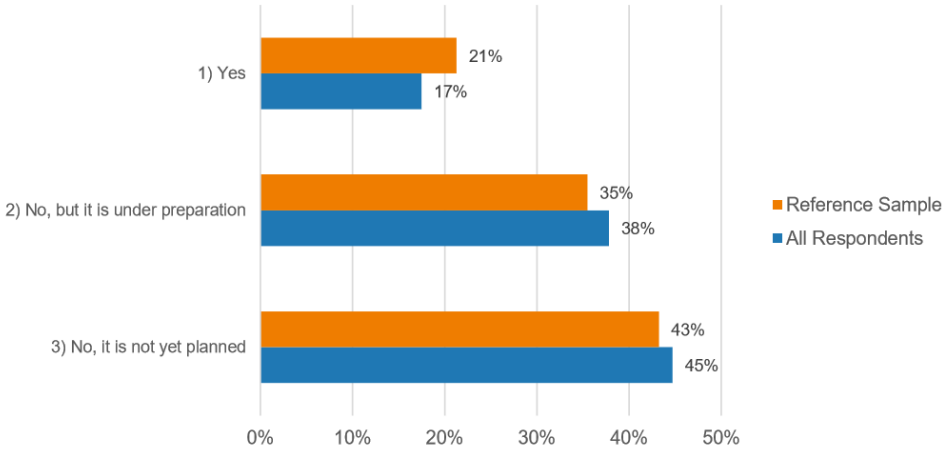
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
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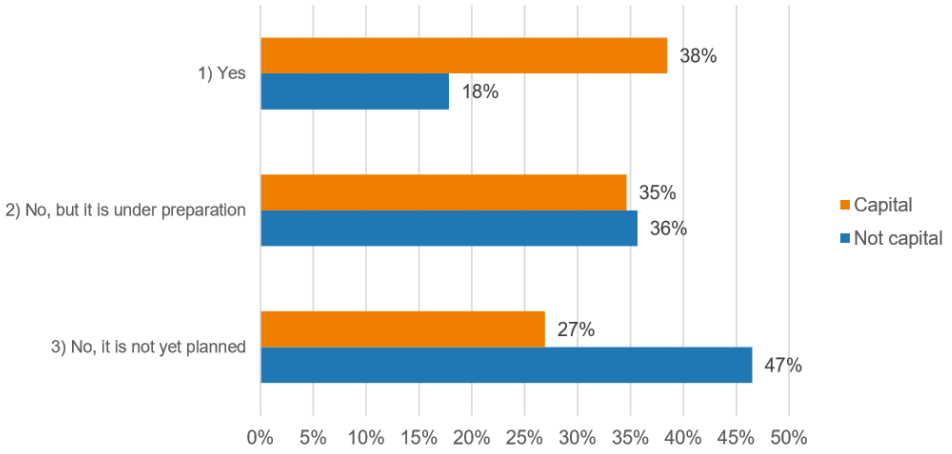
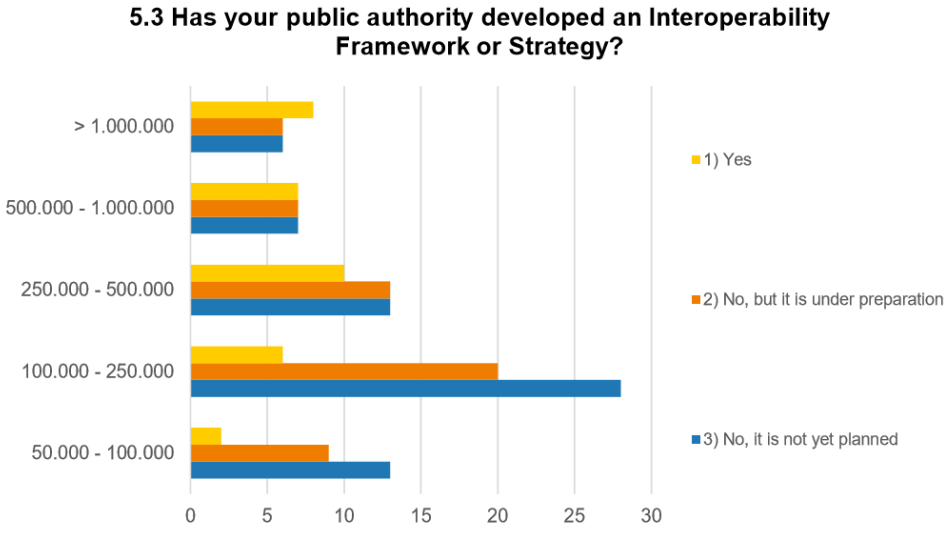
5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage



Question type	Data sample	Cluster	Value
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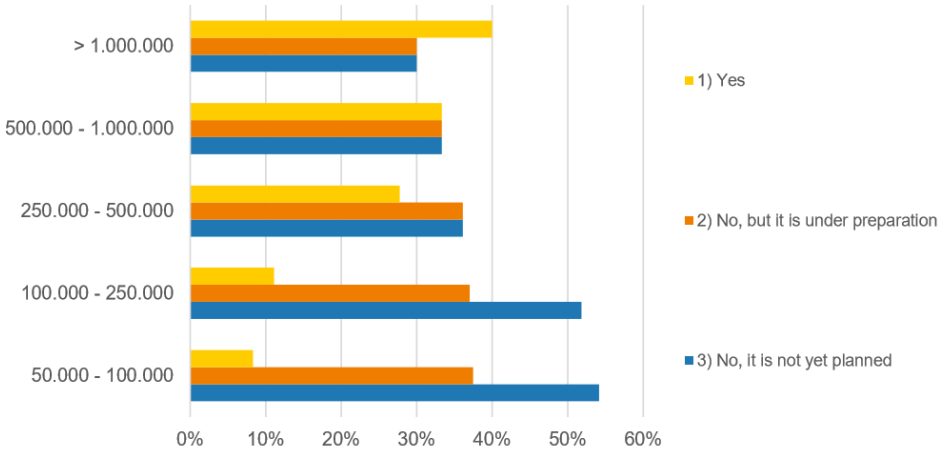
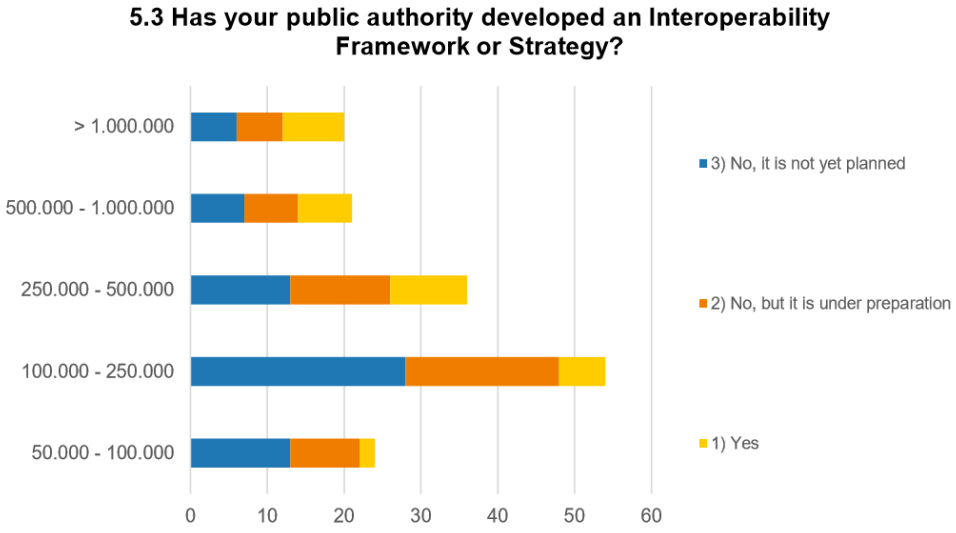


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage



Question type	Data sample	Cluster	Value
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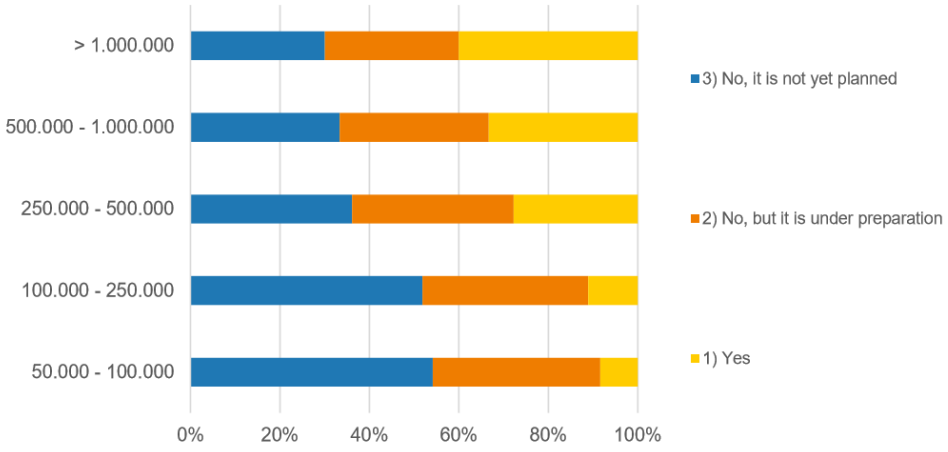
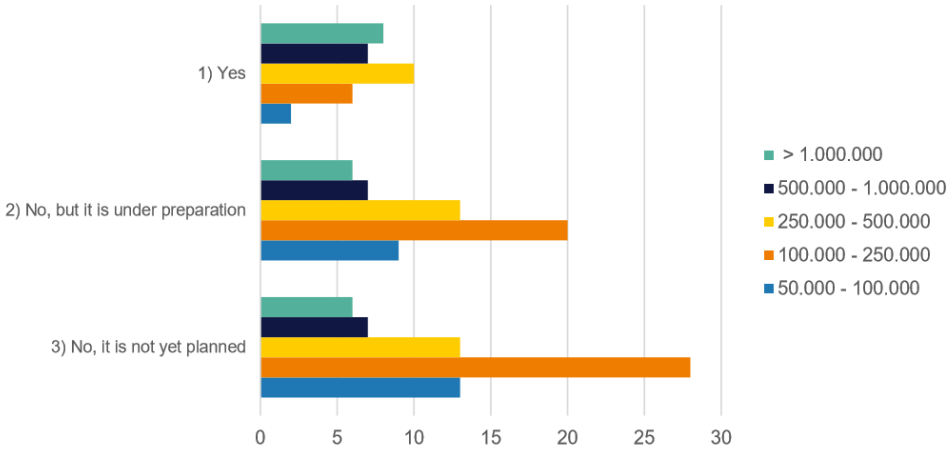


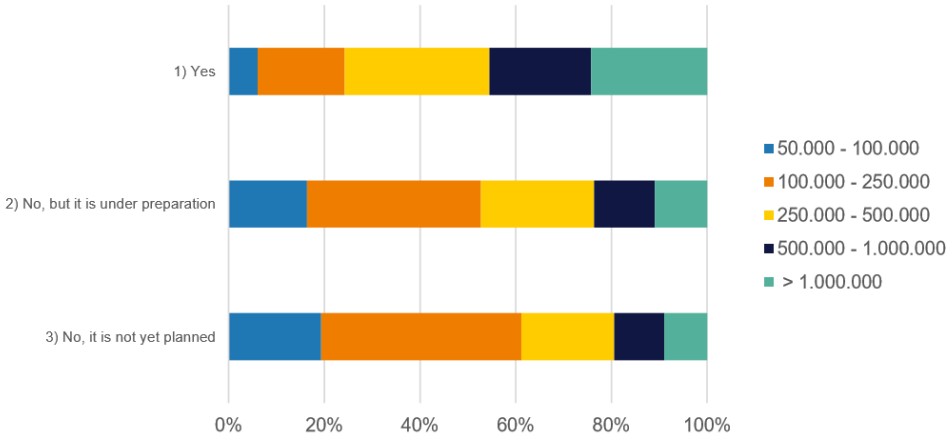
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

5.3 Has your public authority developed an Interoperability Framework or Strategy?

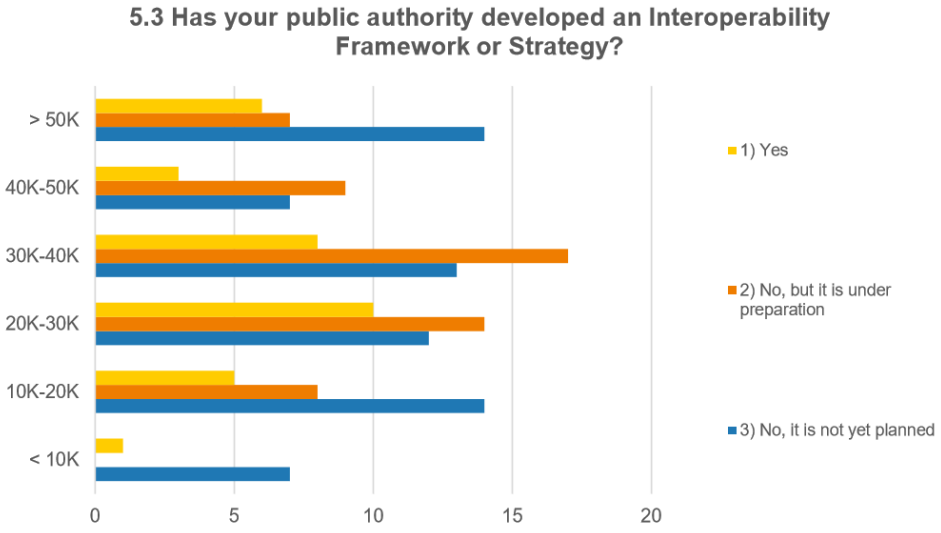


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

5.3 Has your public authority developed an Interoperability Framework or Strategy?

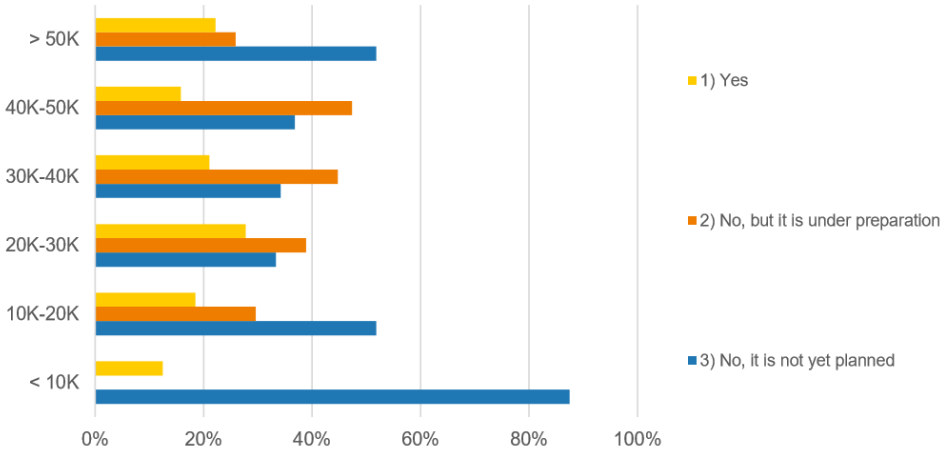


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

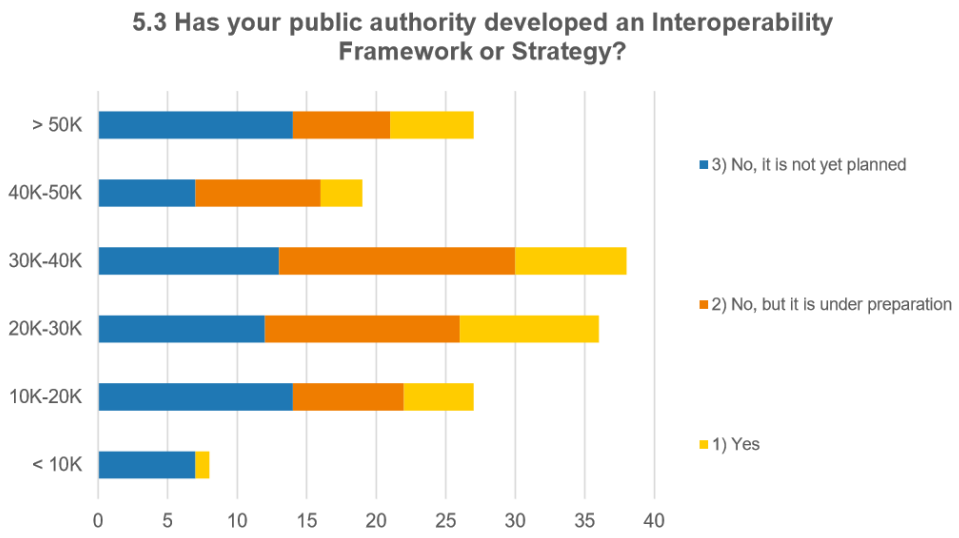


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

5.3 Has your public authority developed an Interoperability Framework or Strategy?

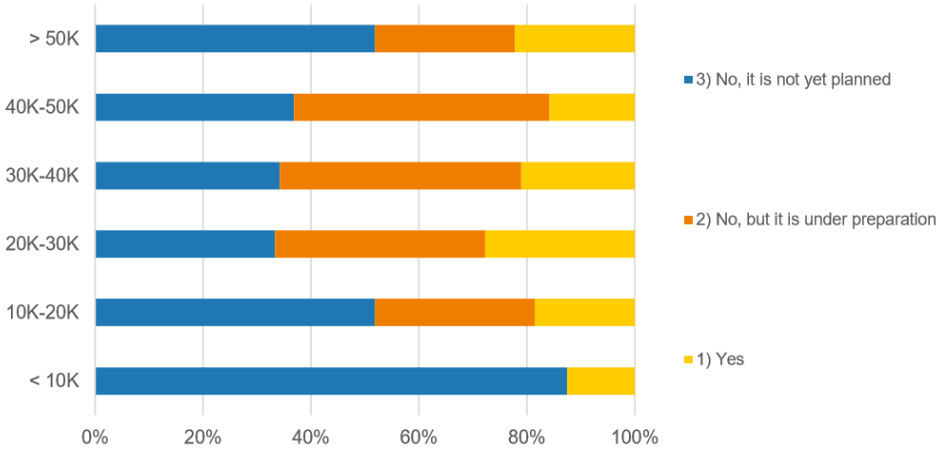


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage

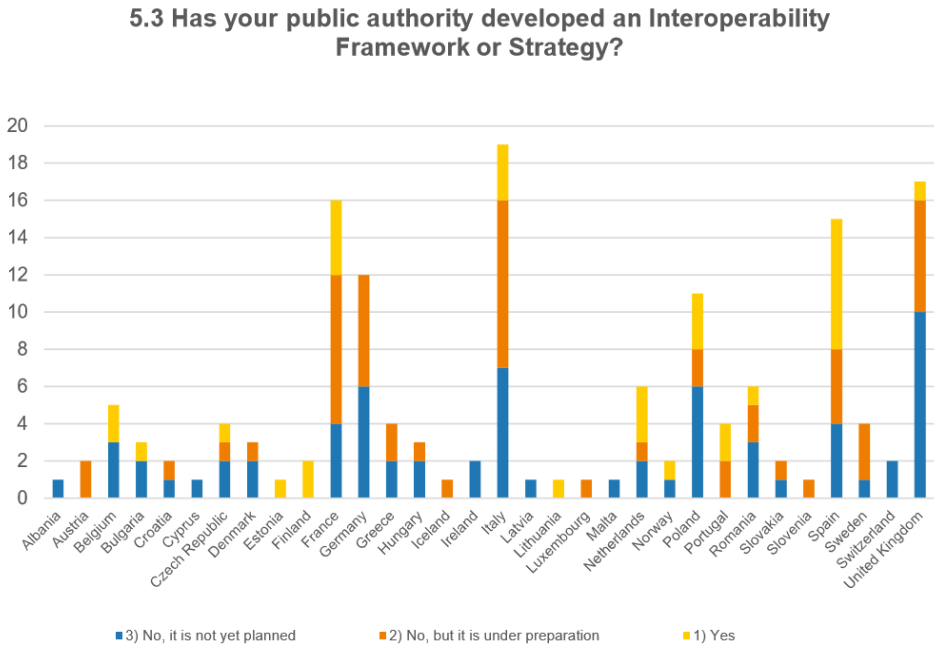


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

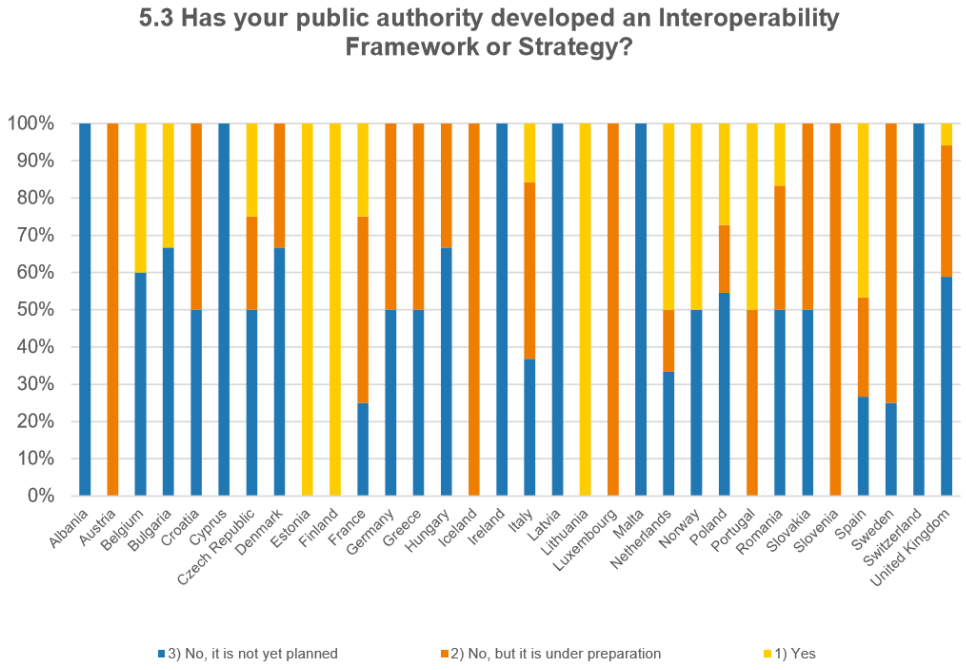
5.3 Has your public authority developed an Interoperability Framework or Strategy?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.36 Q_5.4 Is your public authority making use of interoperable digital solutions or services (e.g. ISA2 programme, Connecting Europe Facility (CEF) Digital Building Blocks, OASC Minimal Interoperability Mechanisms (MIMs), FIWARE)?

5.4 Is your public authority making use of interoperable digital solutions or services (e.g. ISA2 programme, Connecting Europe Facility (CEF) Digital Building Blocks, OASC Minimal Interoperability Mechanisms (MIMs), FIWARE)?

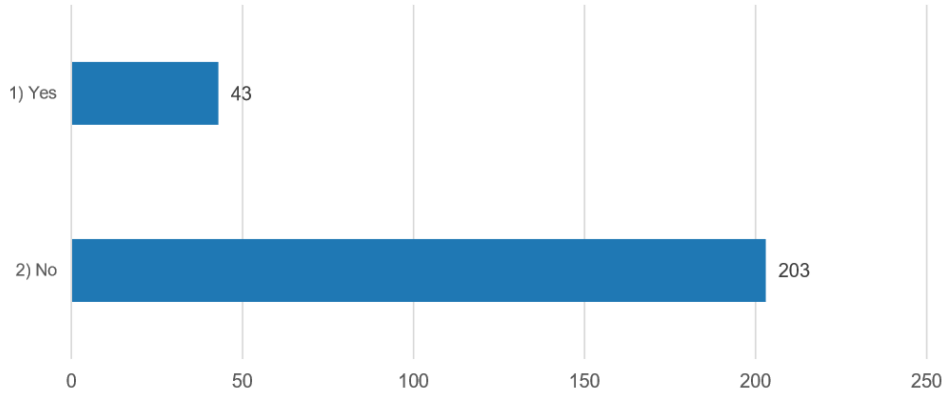
ALL RESPONDENTS

Question type: ***Single choice - Binary***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes	43	17%
2) No	203	83%

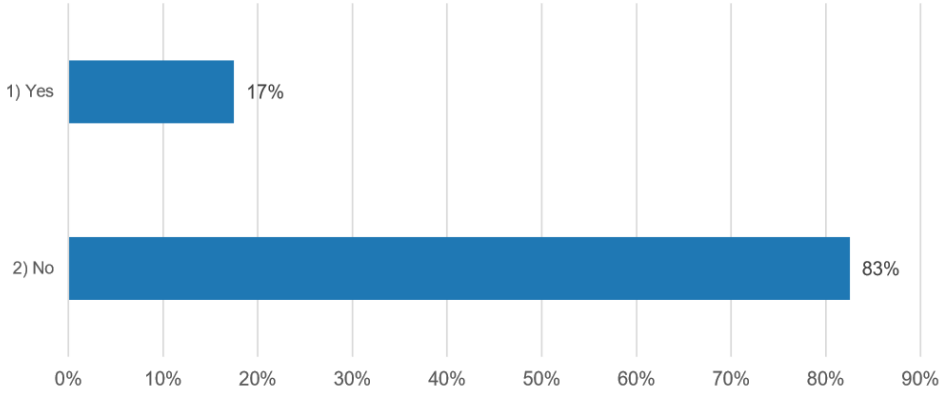
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4 Is your public authority making use of interoperable digital solutions or services (e.g. ISA2 programme, Connecting Europe Facility (CEF) Digital Building Blocks, OASC Minimal Interoperability Mechanisms (MIMs), FIWARE)?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Count

5.4 Is your public authority making use of interoperable digital solutions or services (e.g. ISA2 programme, Connecting Europe Facility (CEF) Digital Building Blocks, OASC Minimal Interoperability Mechanisms (MIMs), FIWARE)?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Percentage

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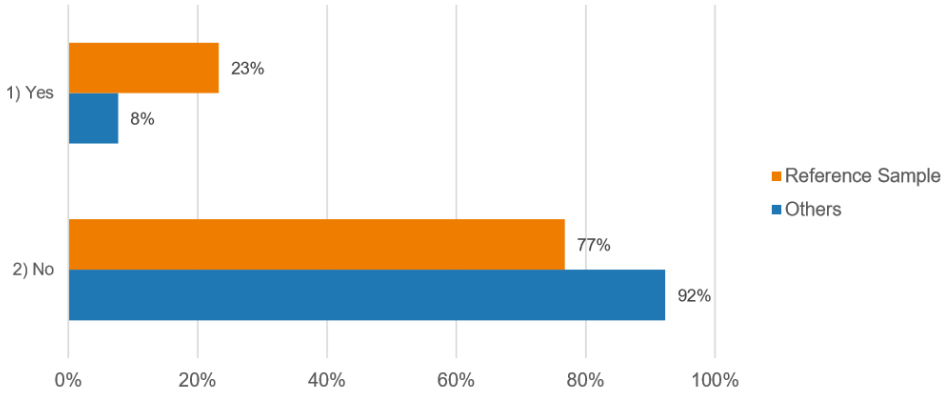
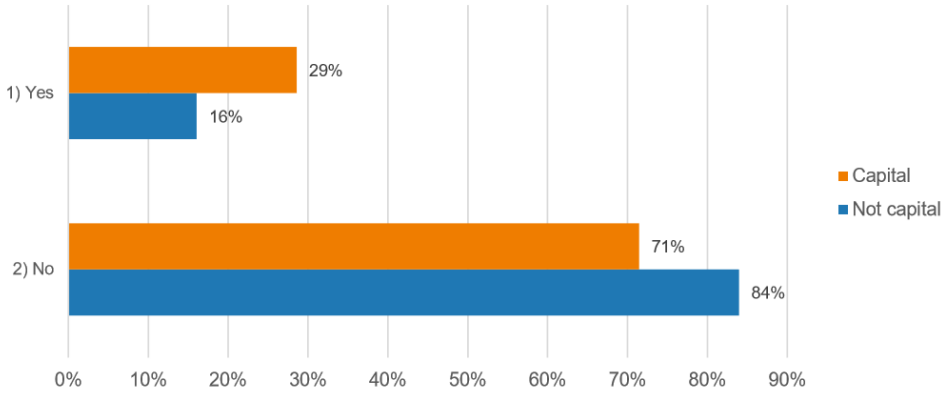


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Reference Sample	Percentage

5.4 Is your public authority making use of interoperable digital solutions or services (e.g. ISA2 programme, Connecting Europe Facility (CEF) Digital Building Blocks, OASC Minimal Interoperability Mechanisms (MIMs), FIWARE)?



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Capital cities	Percentage

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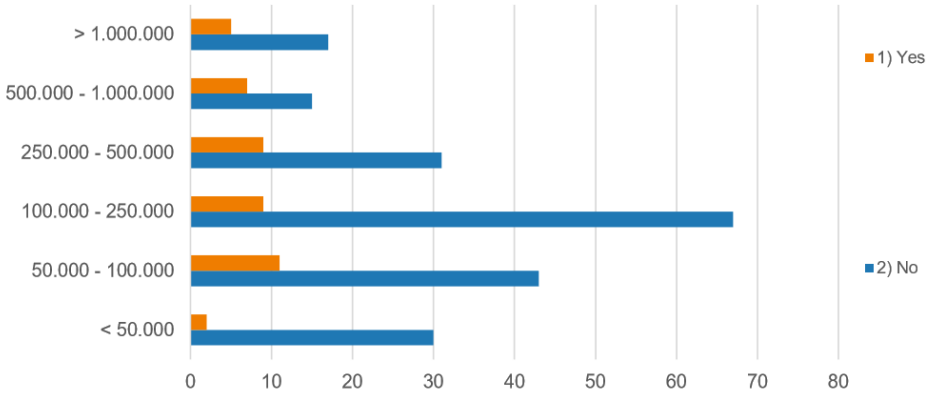

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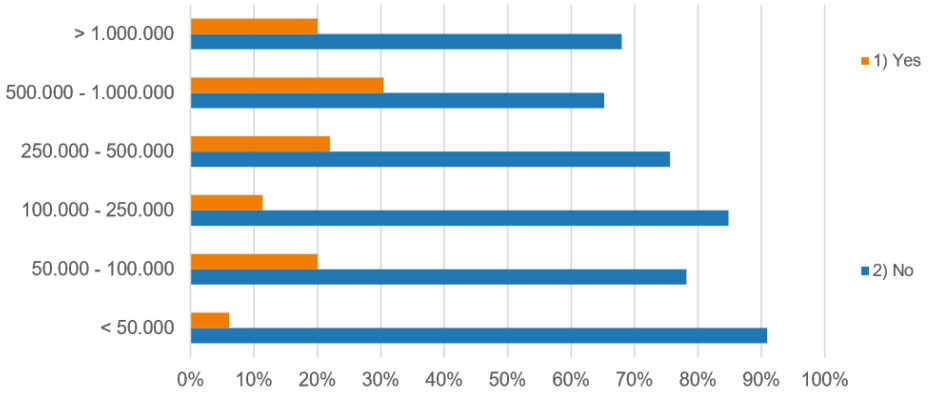

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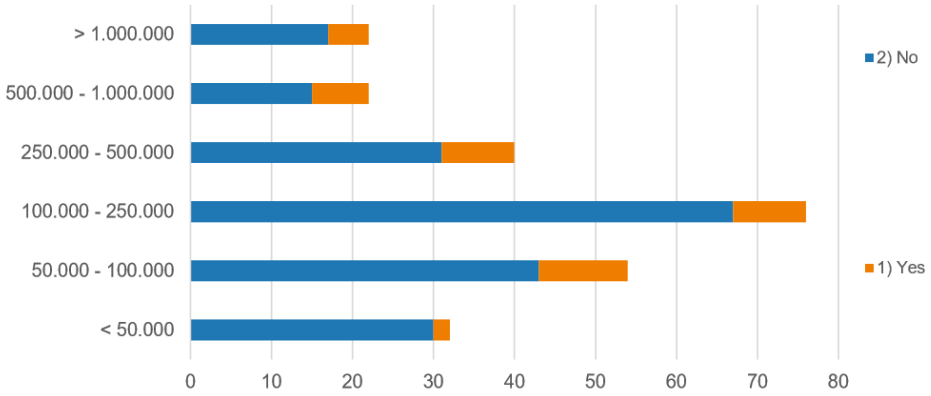

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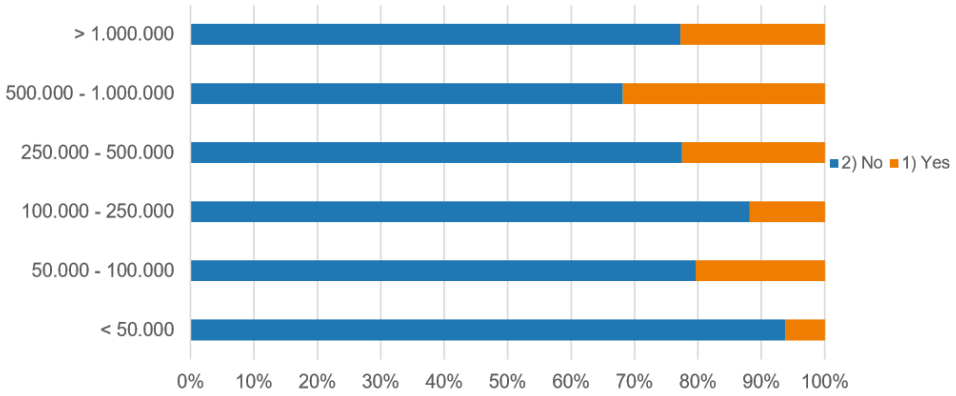

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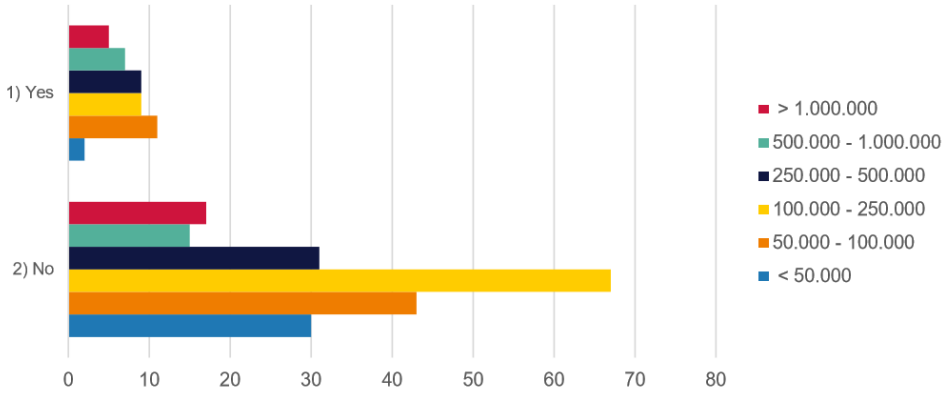

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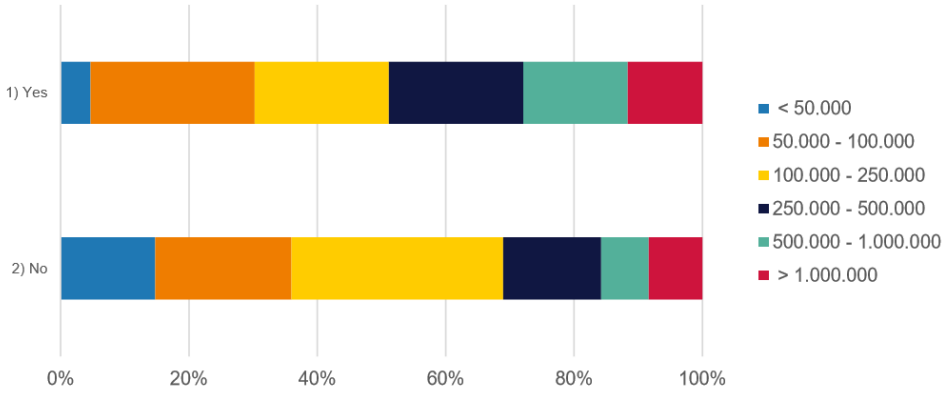

Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Percentage

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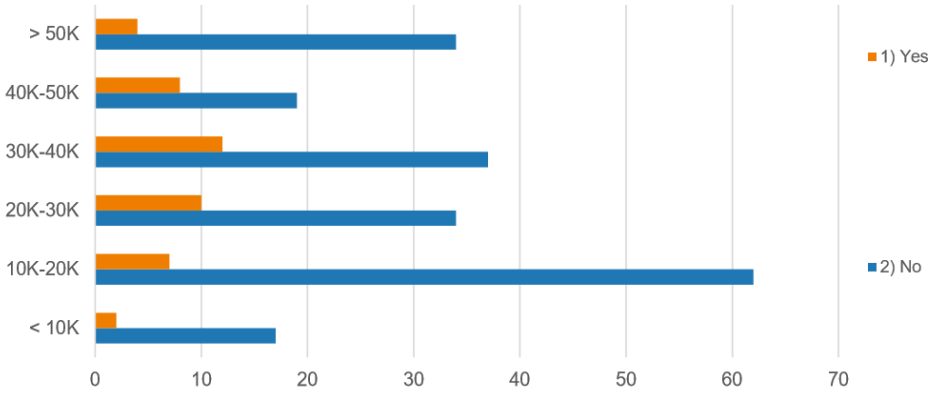

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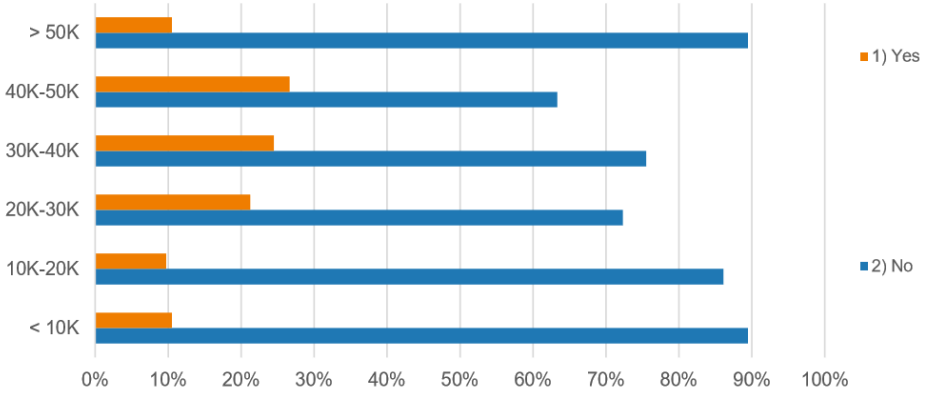

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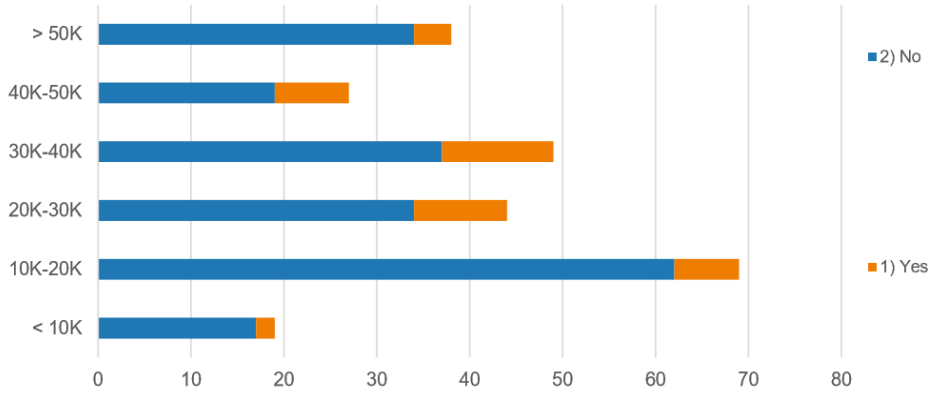

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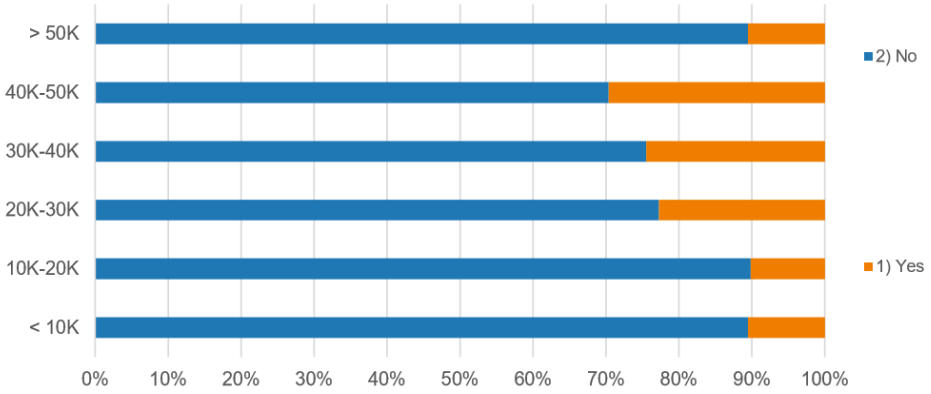

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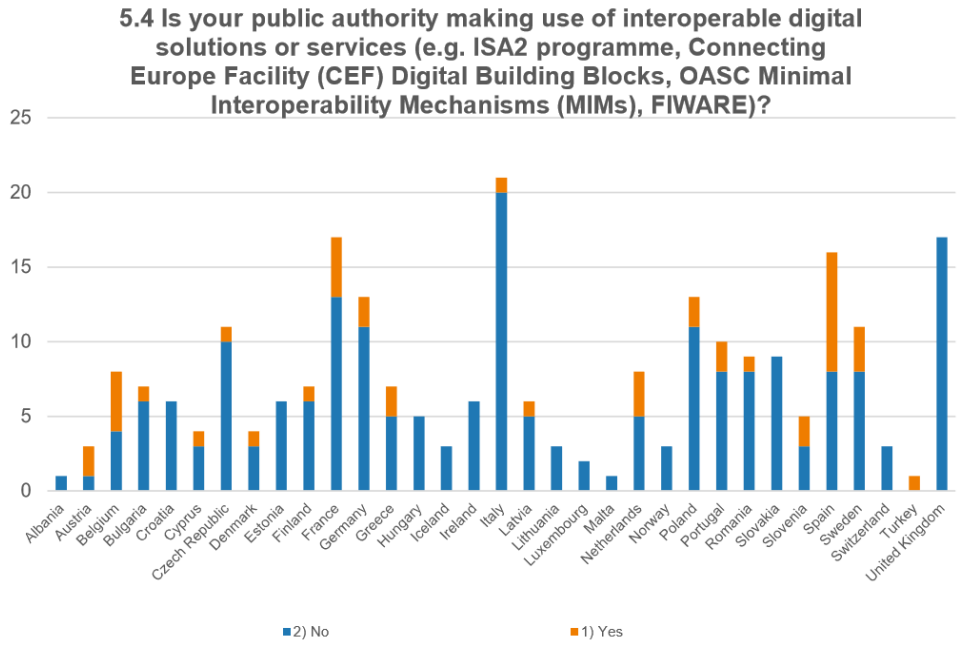
Single choice - Binary	All Respondents	GDPPC	Percentage



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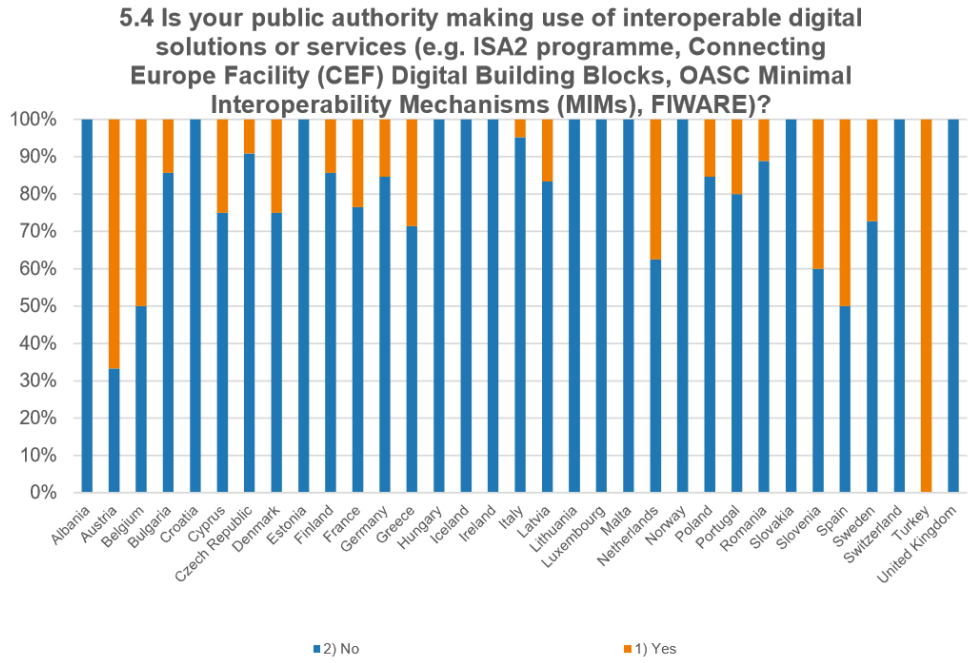

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REFERENCE SAMPLE

Question type:	***Single choice - Binary***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes	36	23%
2) No	119	77%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

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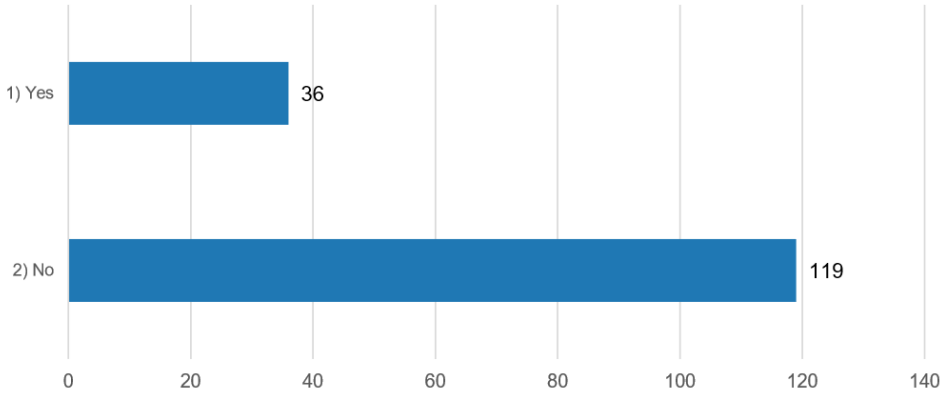

Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	-	Count

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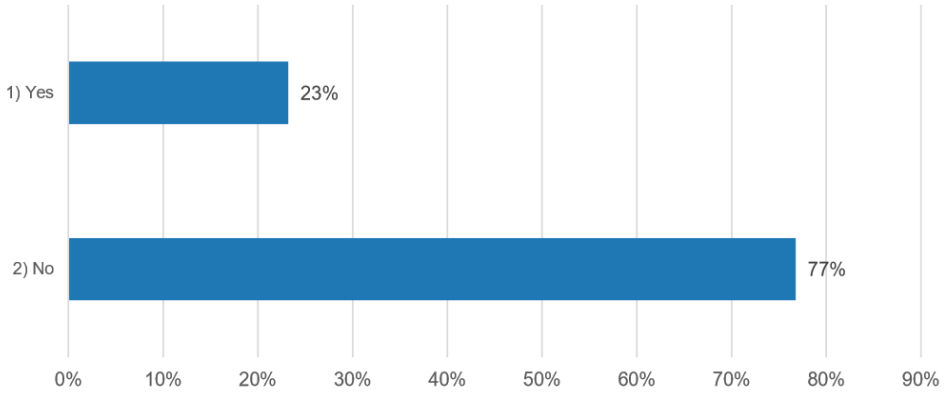

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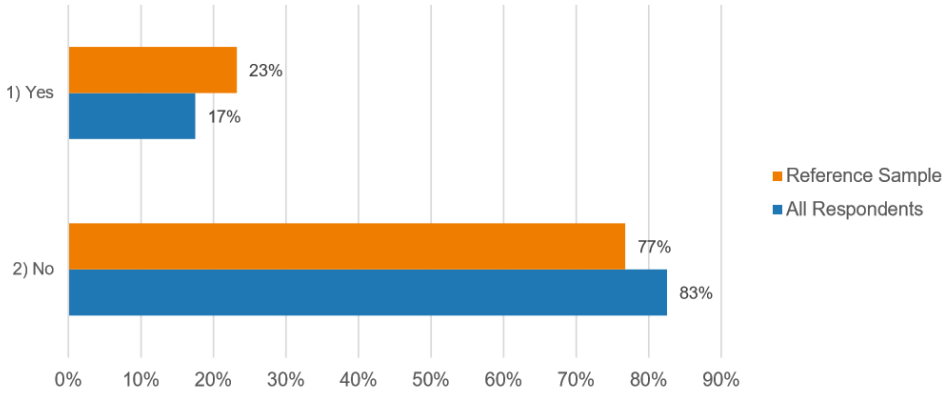

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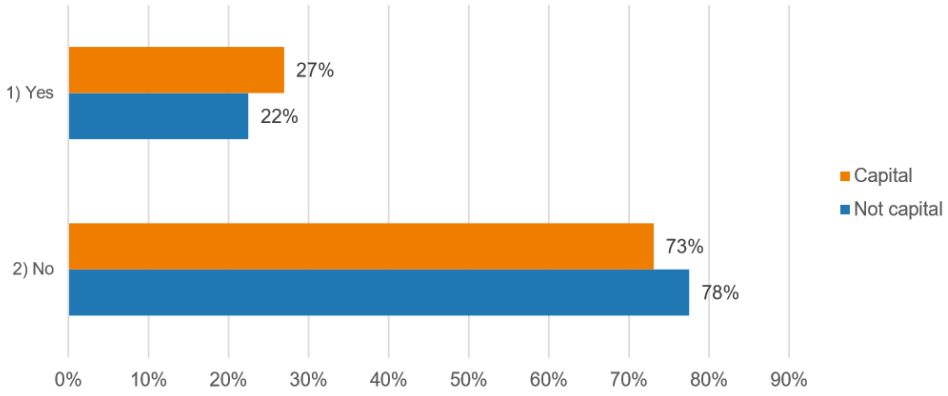

Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Capital cities	Percentage

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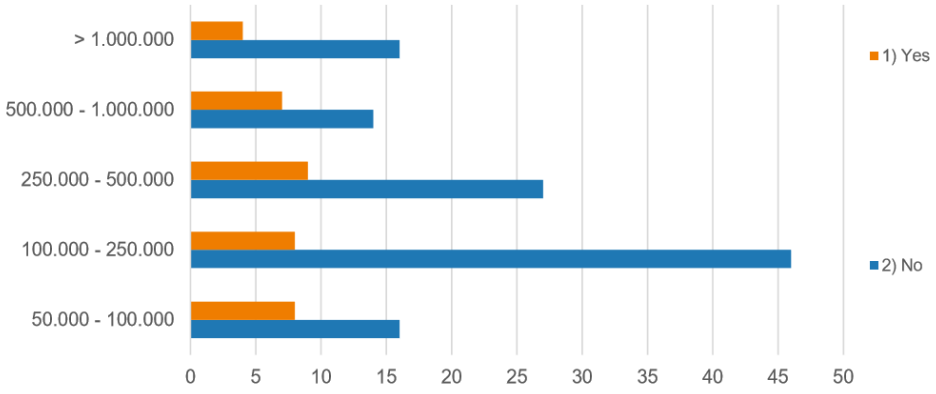

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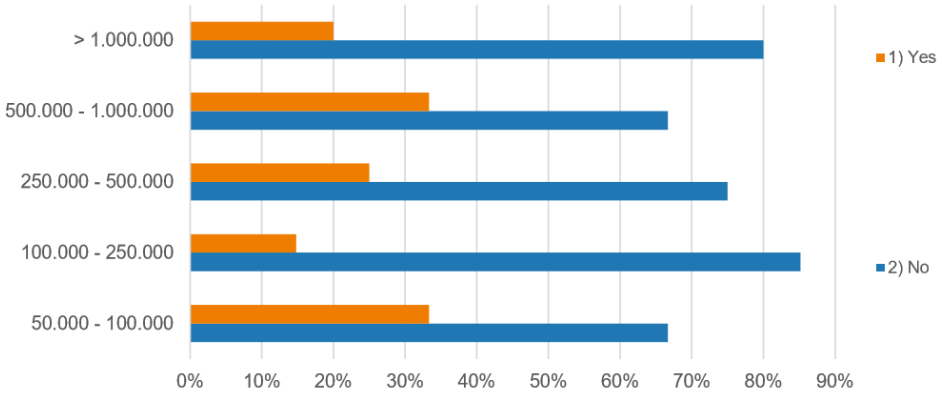

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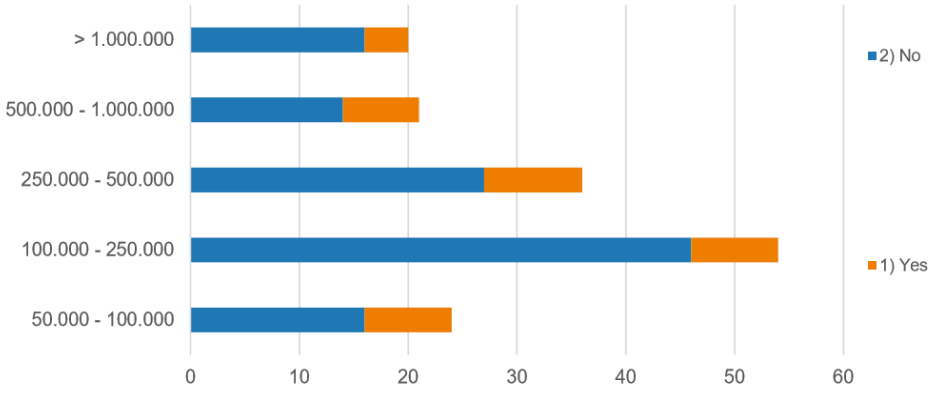

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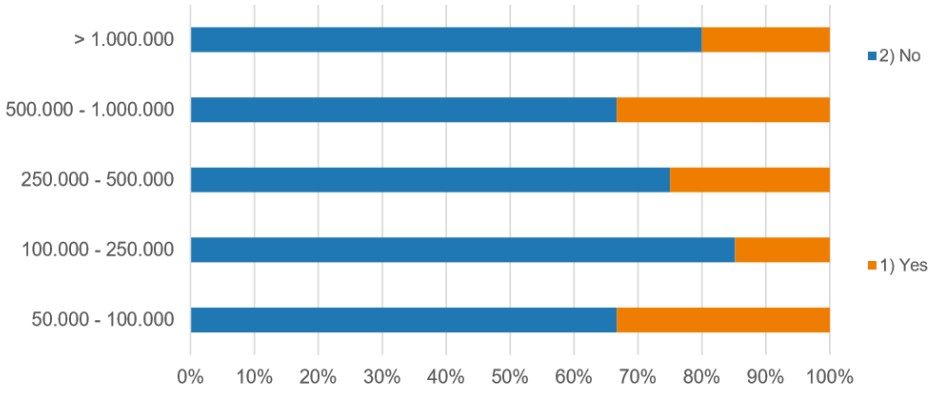

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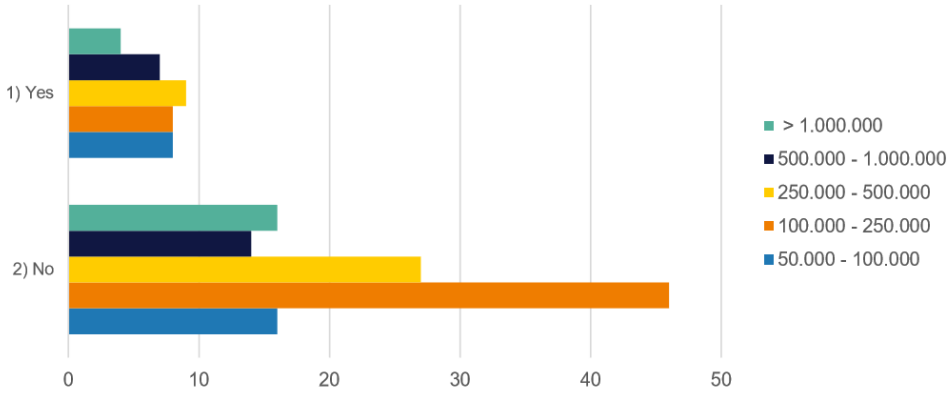

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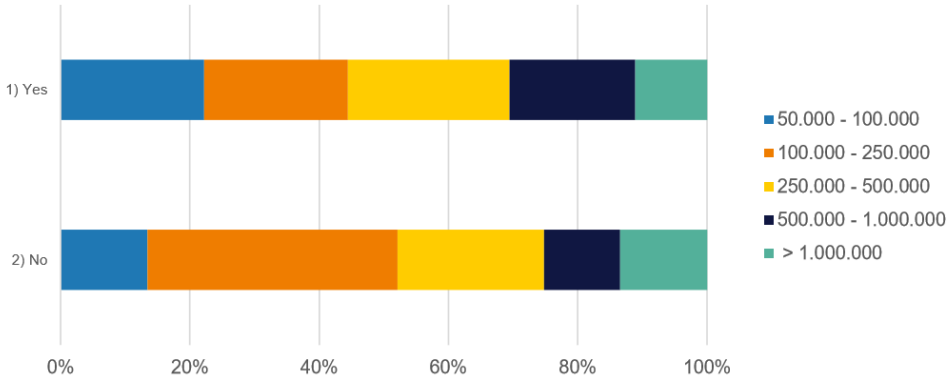

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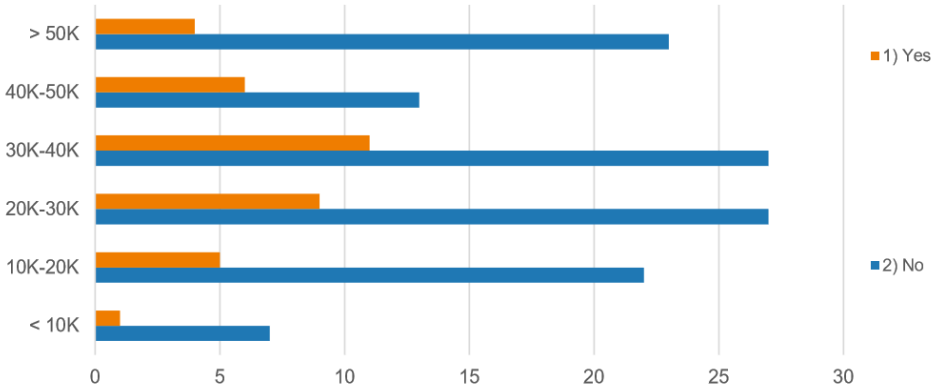

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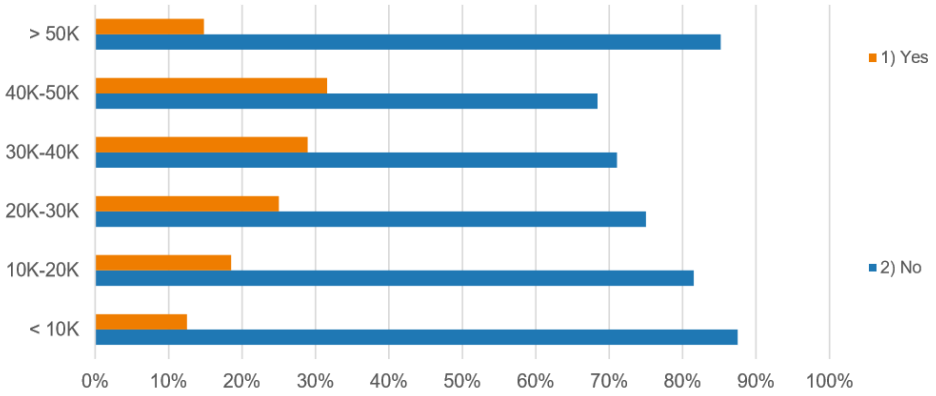

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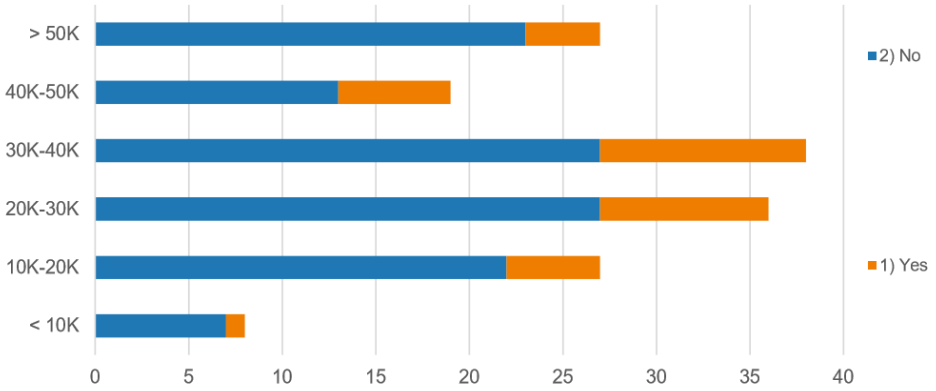

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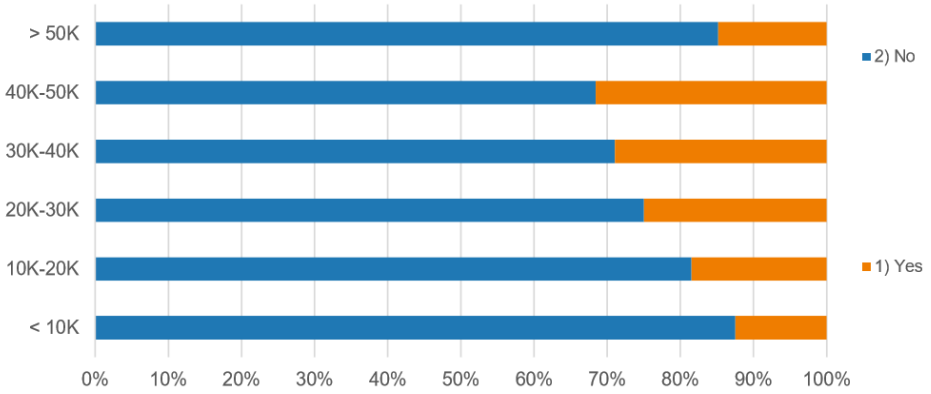

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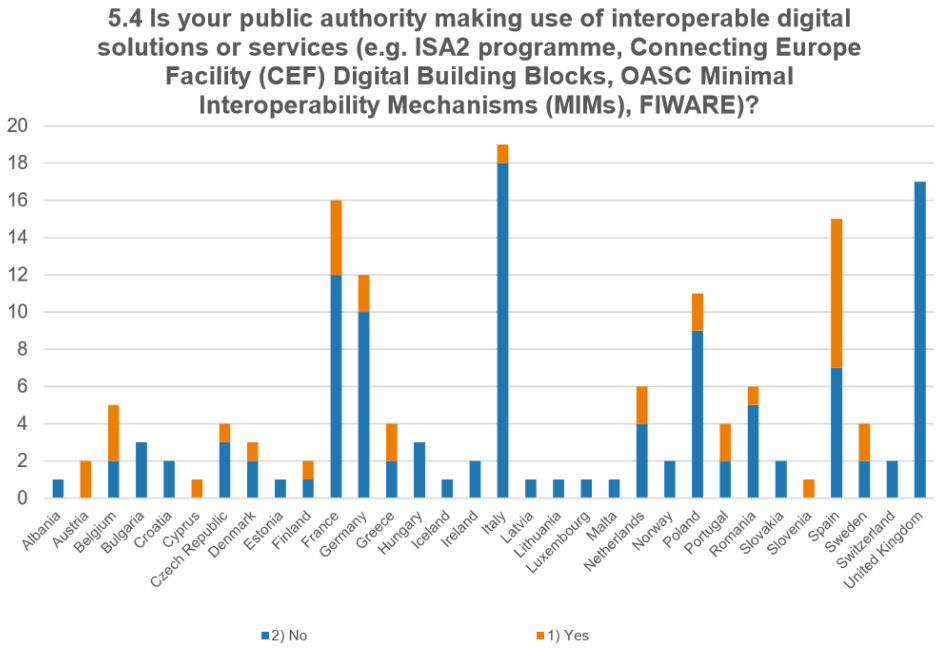

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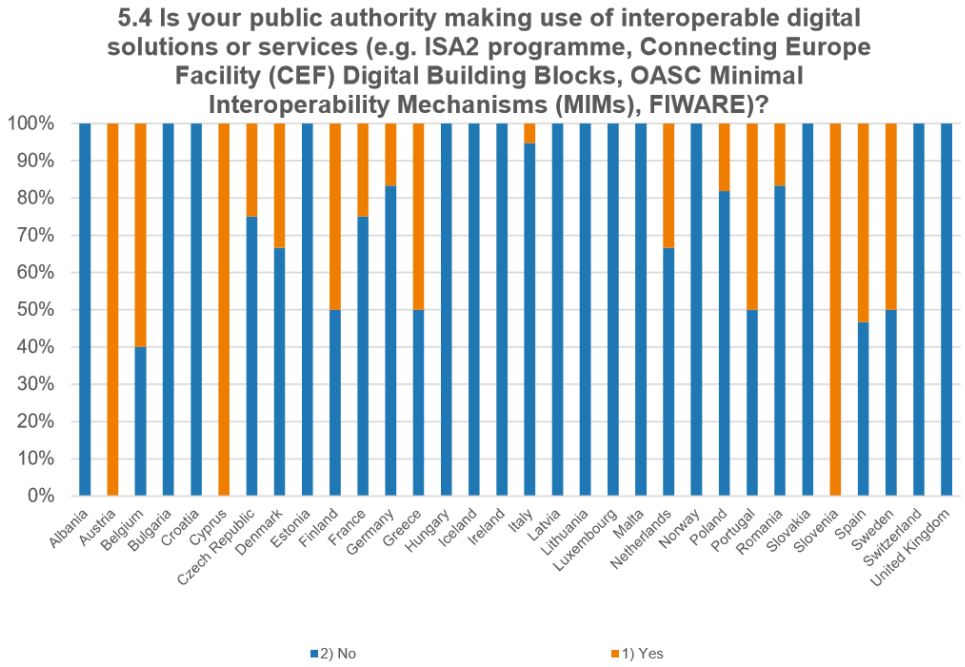

Question type	Data sample	Cluster	Value
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3.37 Q_5.4.1 Which of the following are used?

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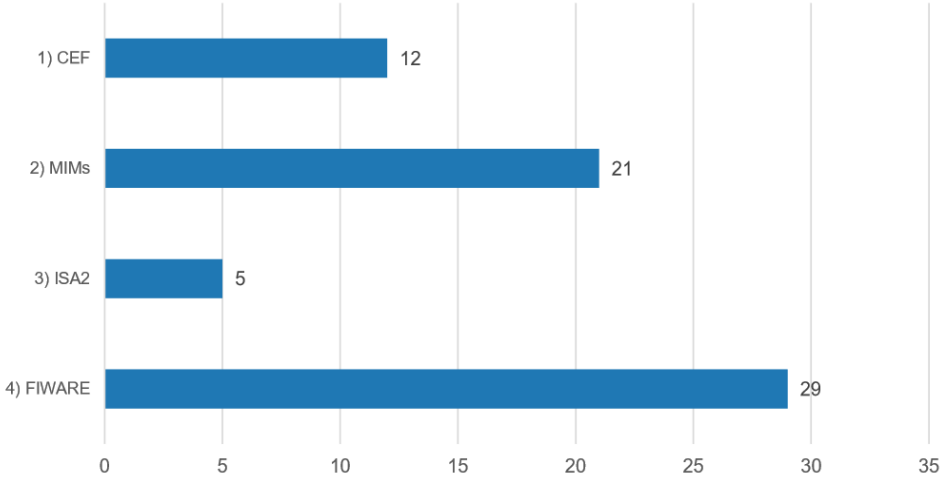
ALL RESPONDENTS

Question type:	***Multiple choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**43 (17%)**

Answer	*Count*	*Percentage**
1) CEF	12	28%
2) MIMs	21	49%
3) ISA2	5	12%
4) FIWARE	29	67%

** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4.1 Which of the following are used?



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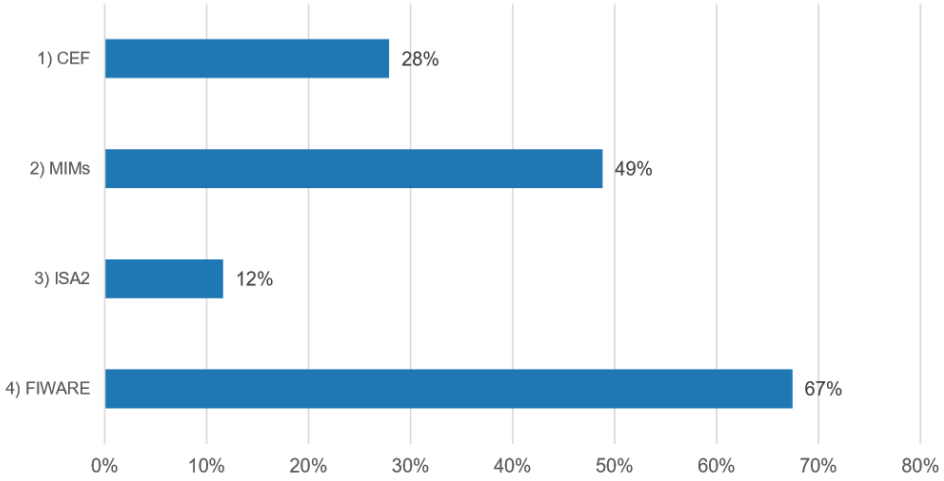

Question type	Data sample	Cluster	Value
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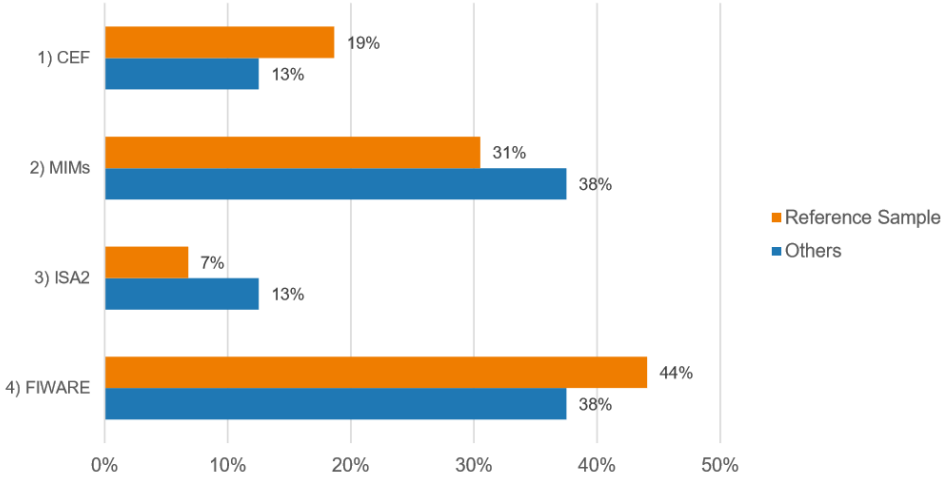

Question type	Data sample	Cluster	Value
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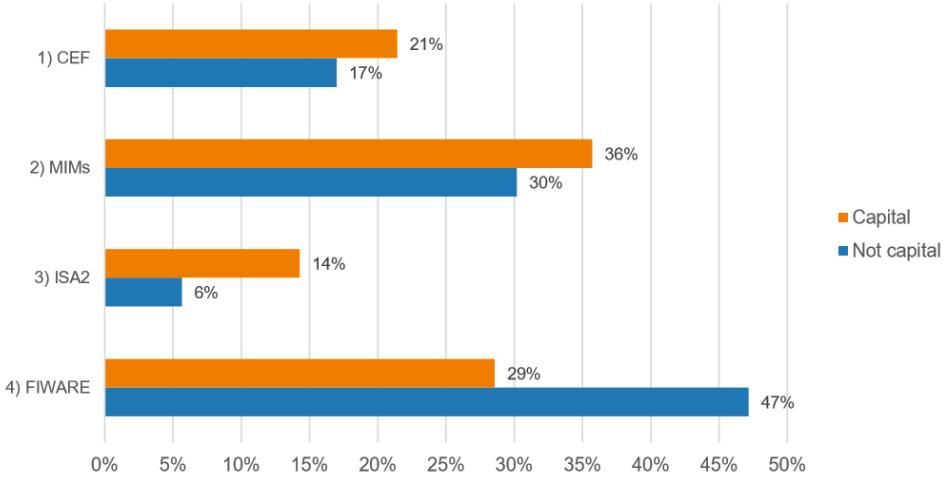

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

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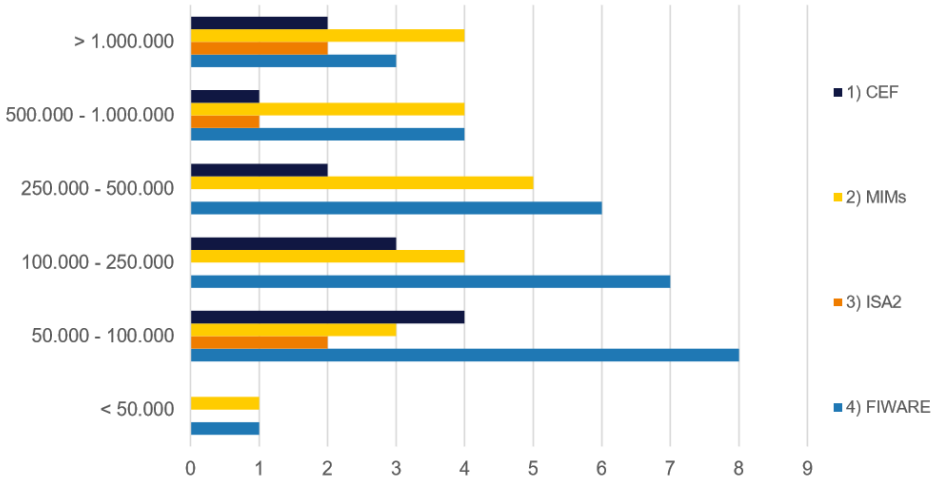

Question type	Data sample	Cluster	Value
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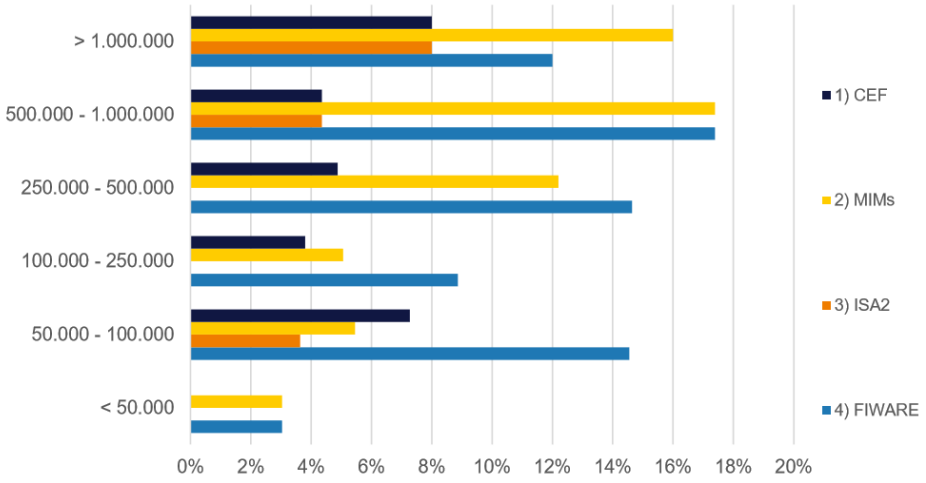

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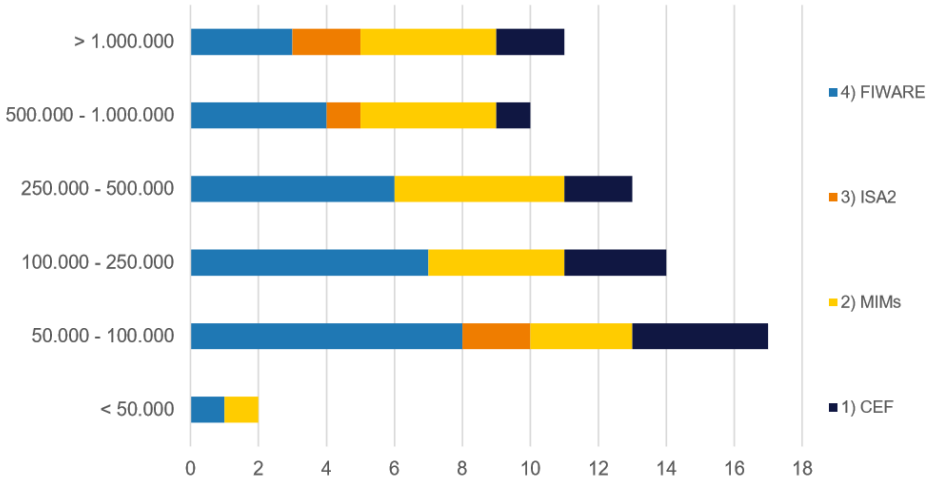

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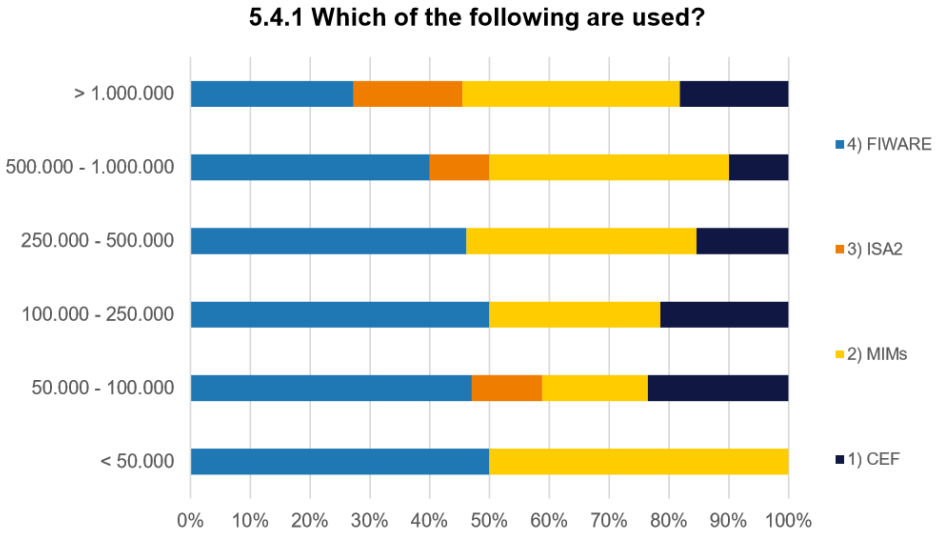

Question type	Data sample	Cluster	Value
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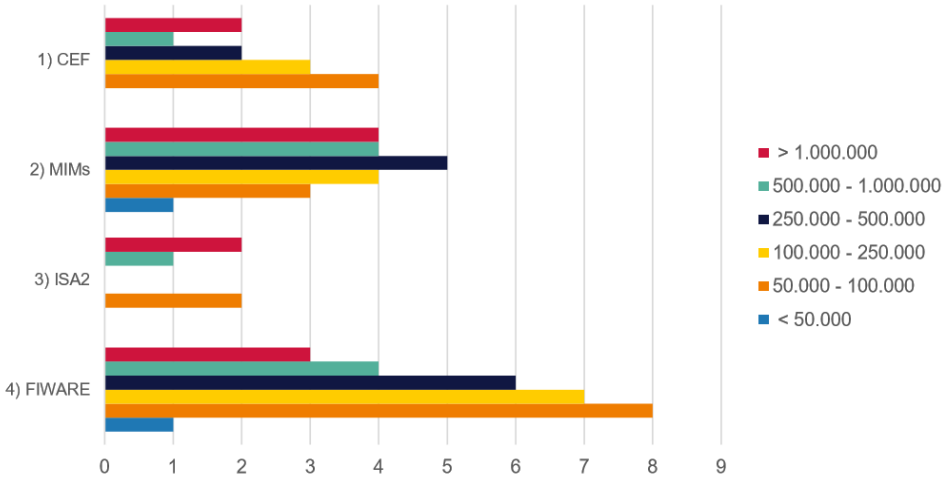
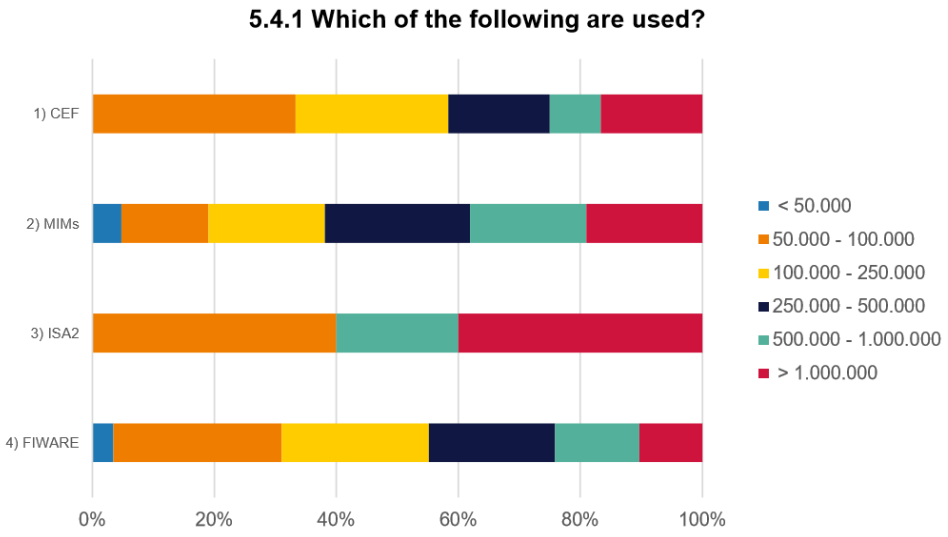
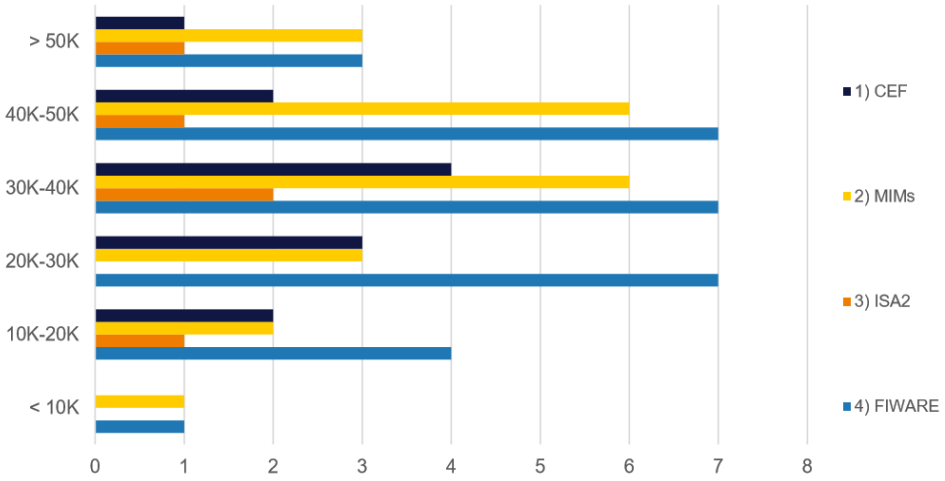


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count



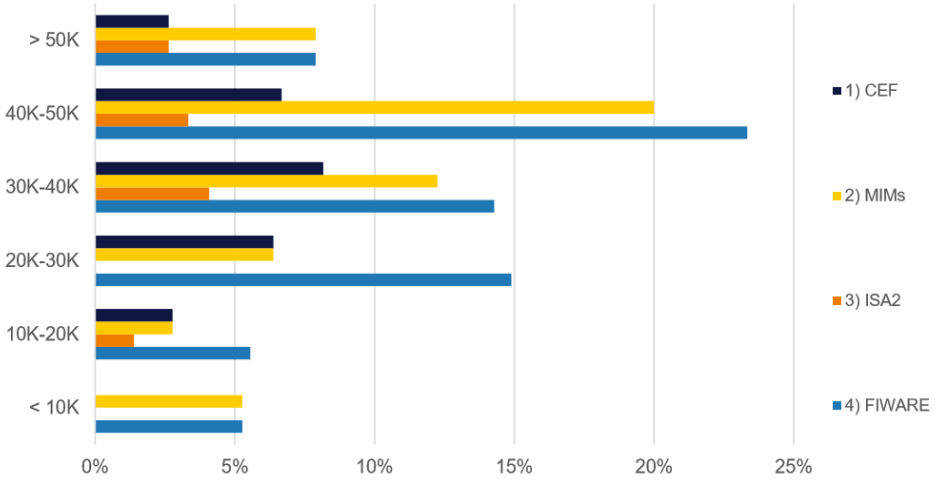
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.4.1 Which of the following are used?



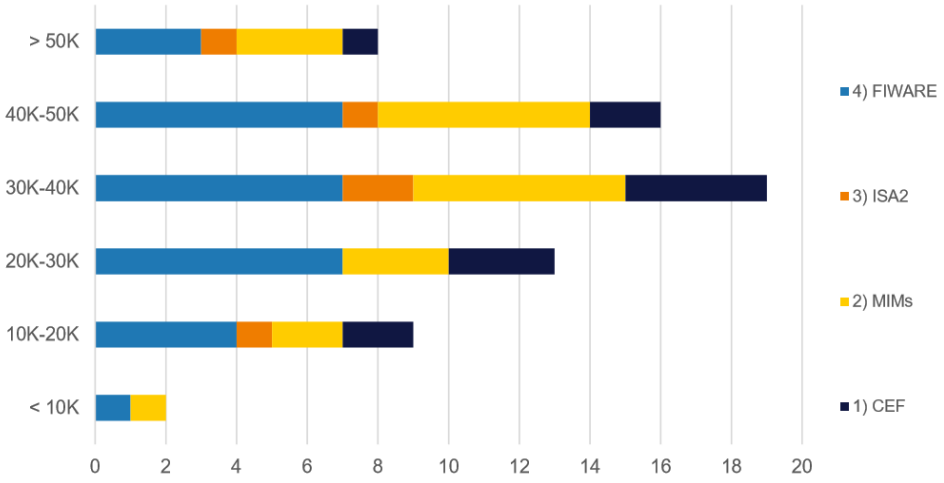
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.4.1 Which of the following are used?



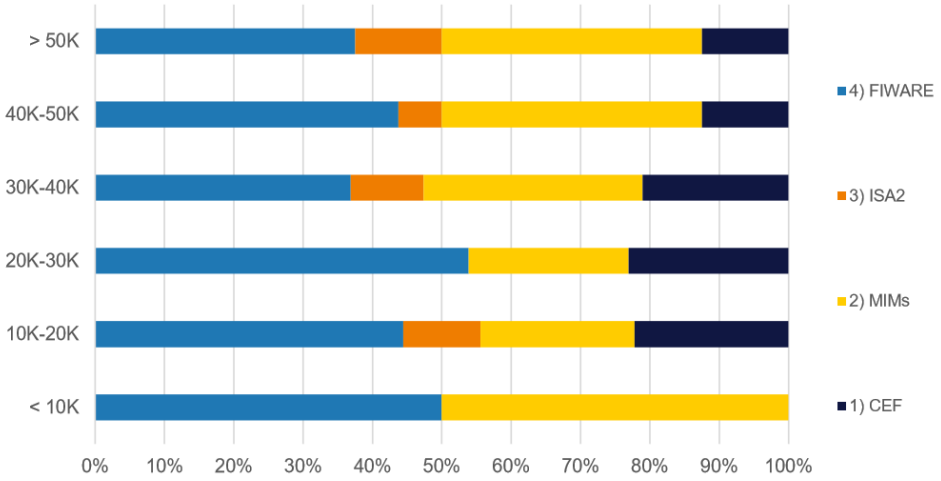
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.4.1 Which of the following are used?



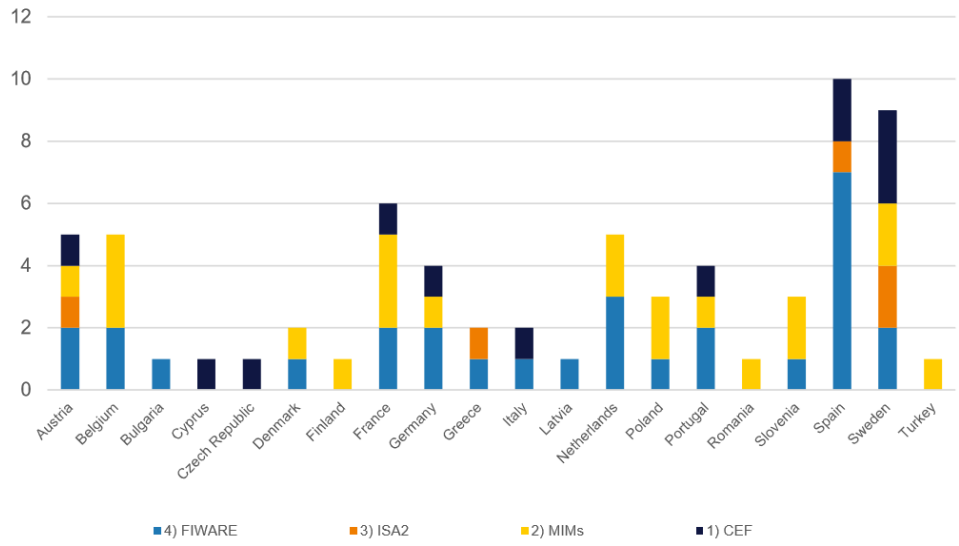
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.4.1 Which of the following are used?



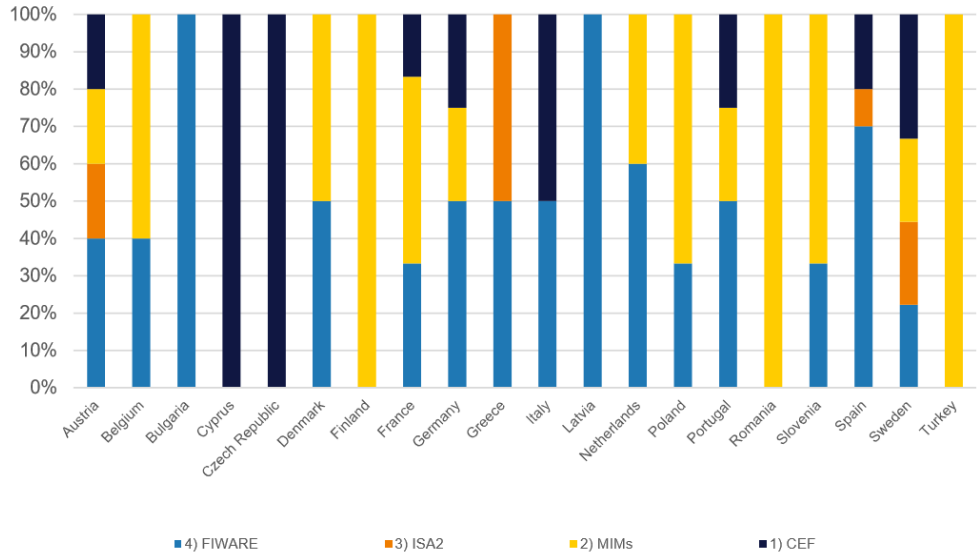
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.4.1 Which of the following are used?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

5.4.1 Which of the following are used?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.4.1 Which of the following are used?

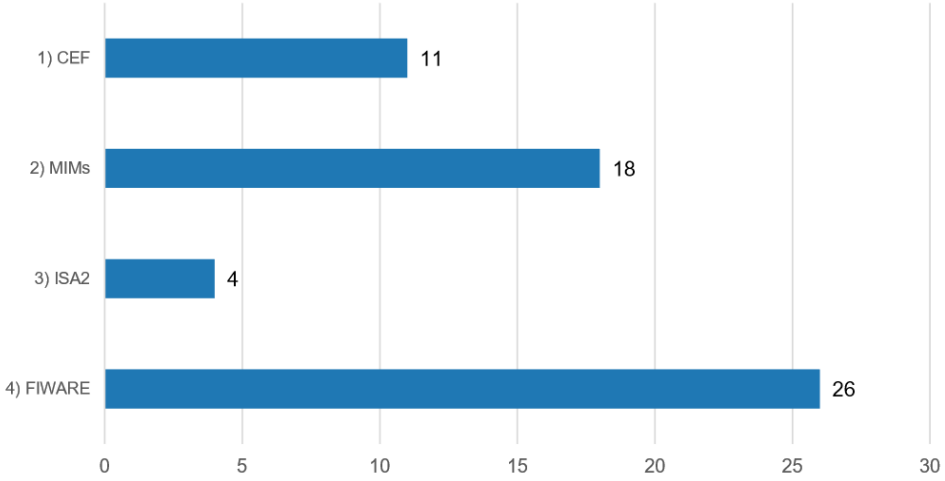
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **36 (23%)**

Answer	*Count*	*Percentage**
1) CEF	11	31%
2) MIMs	18	50%
3) ISA2	4	11%
4) FIWARE	26	72%

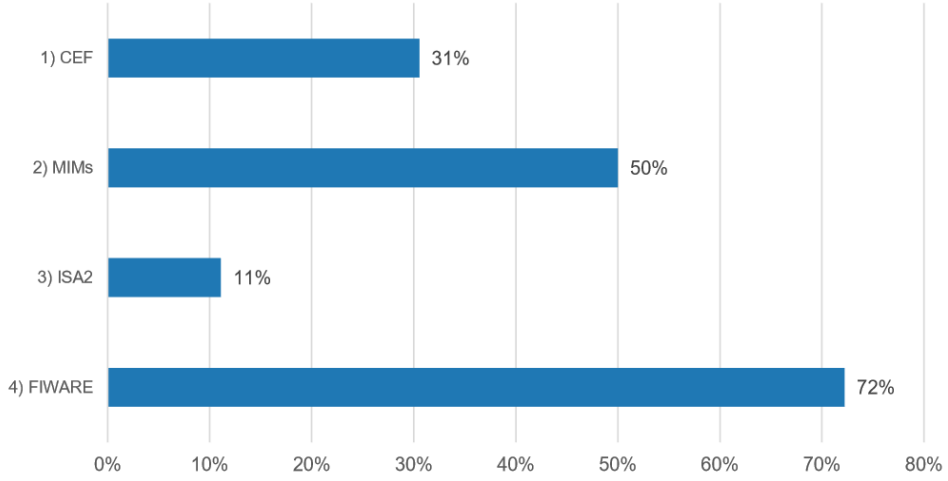
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4.1 Which of the following are used?

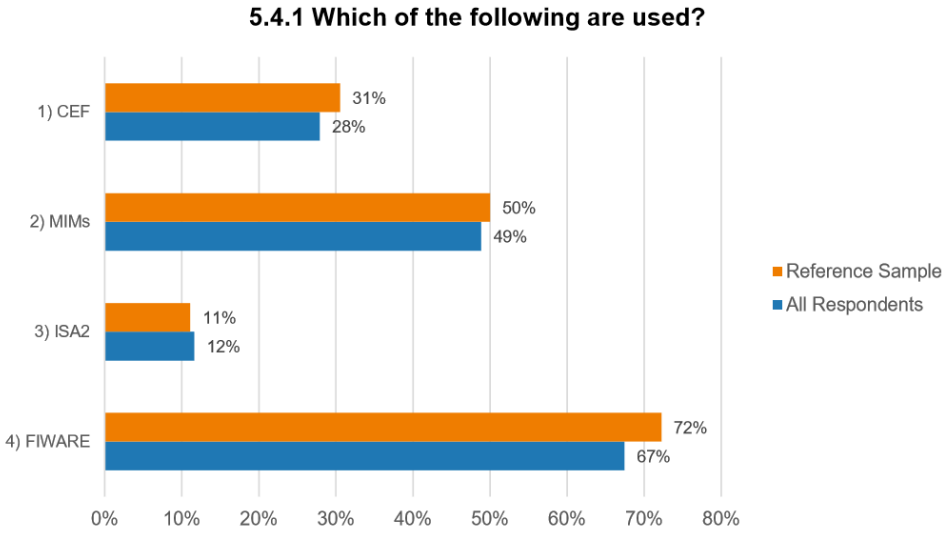


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

5.4.1 Which of the following are used?

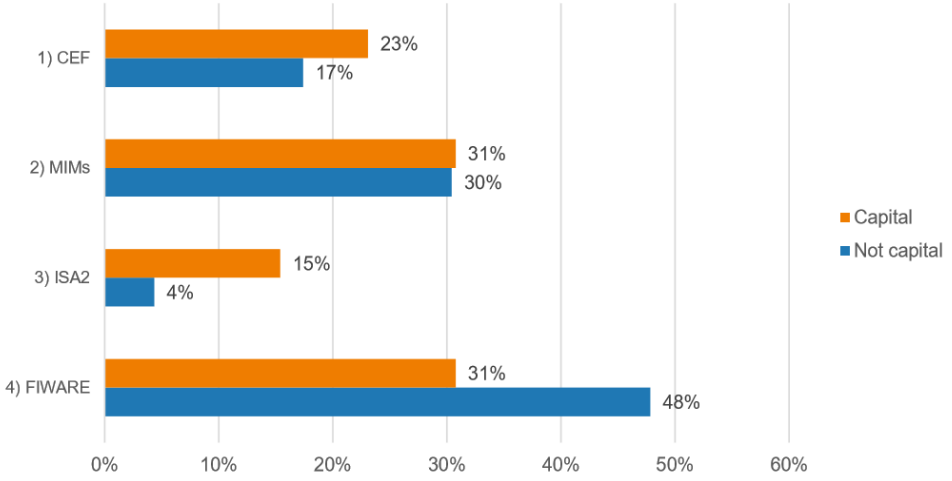


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

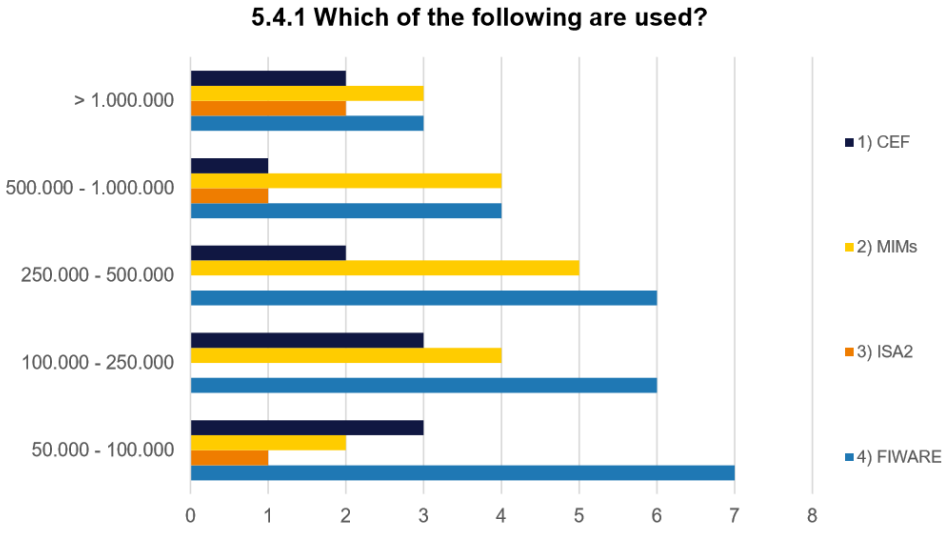


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

5.4.1 Which of the following are used?

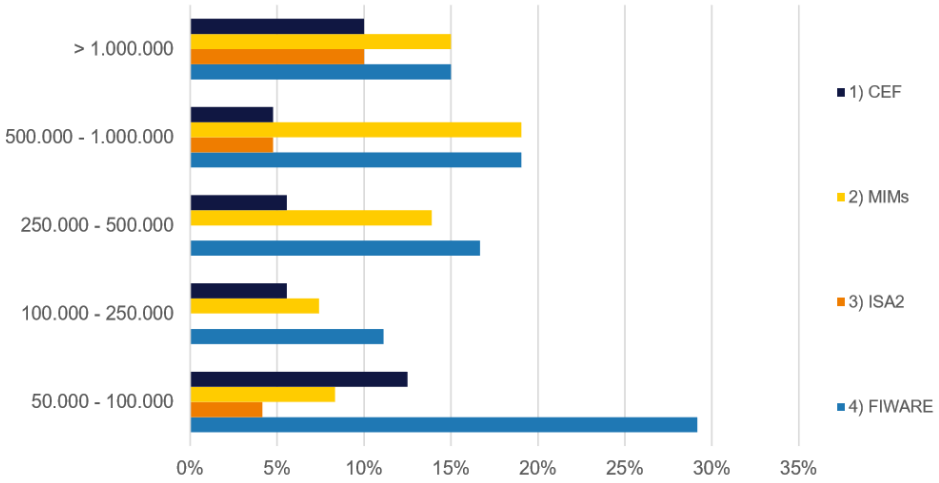


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

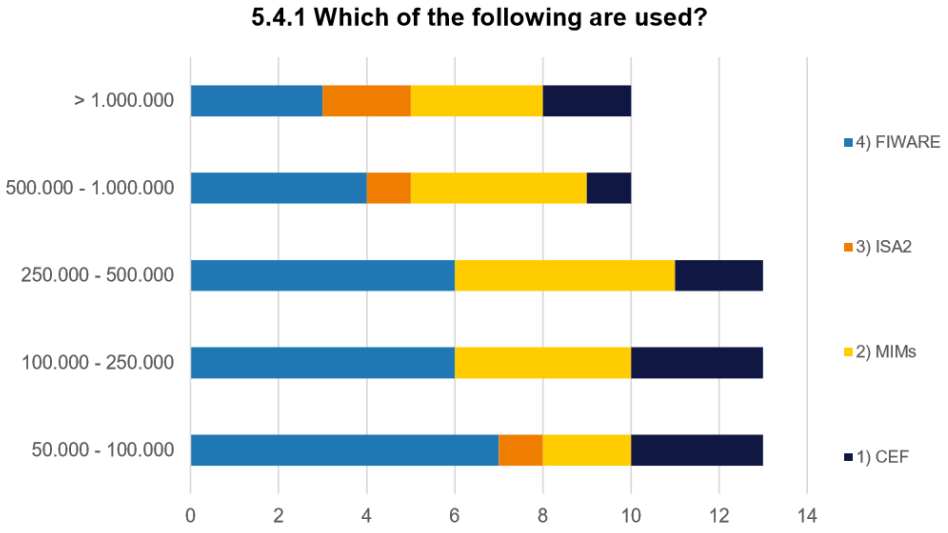


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.4.1 Which of the following are used?

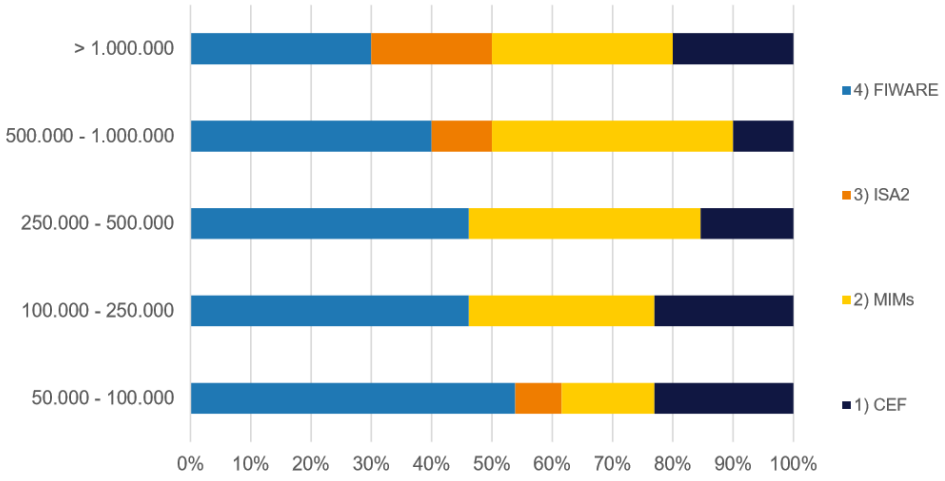


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage



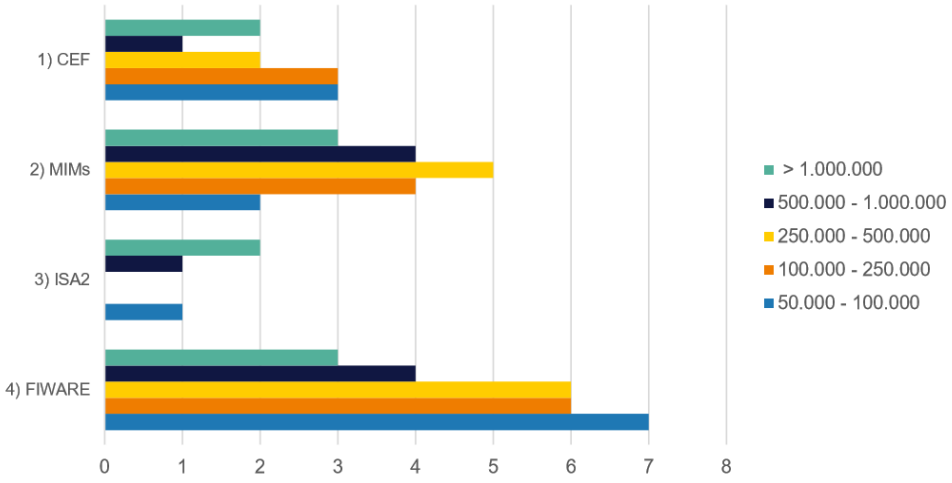
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.4.1 Which of the following are used?



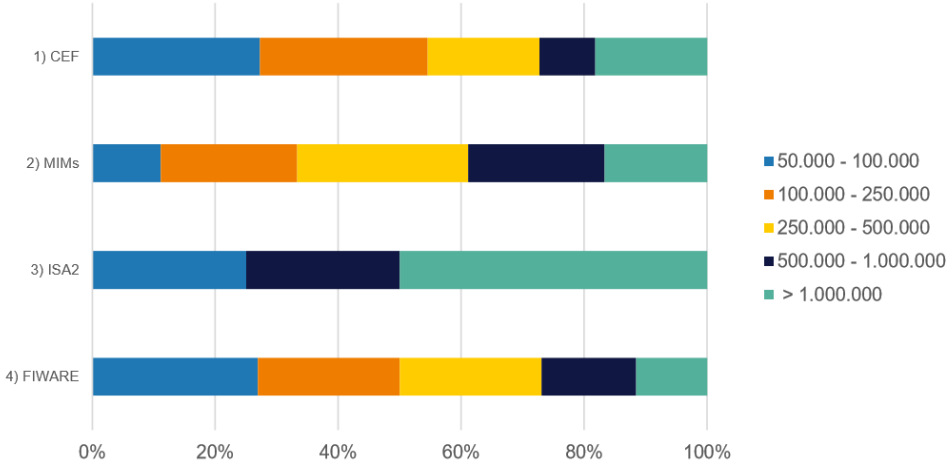
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.4.1 Which of the following are used?

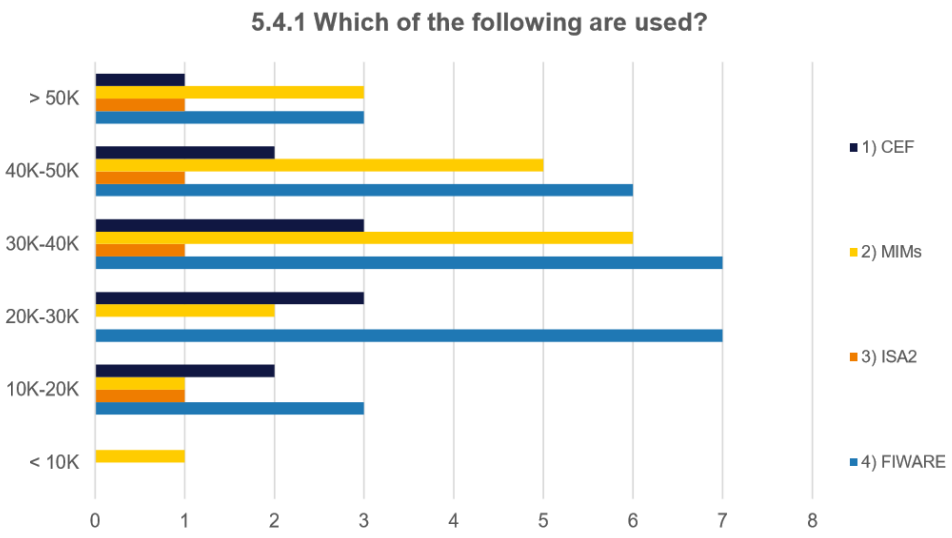


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.4.1 Which of the following are used?

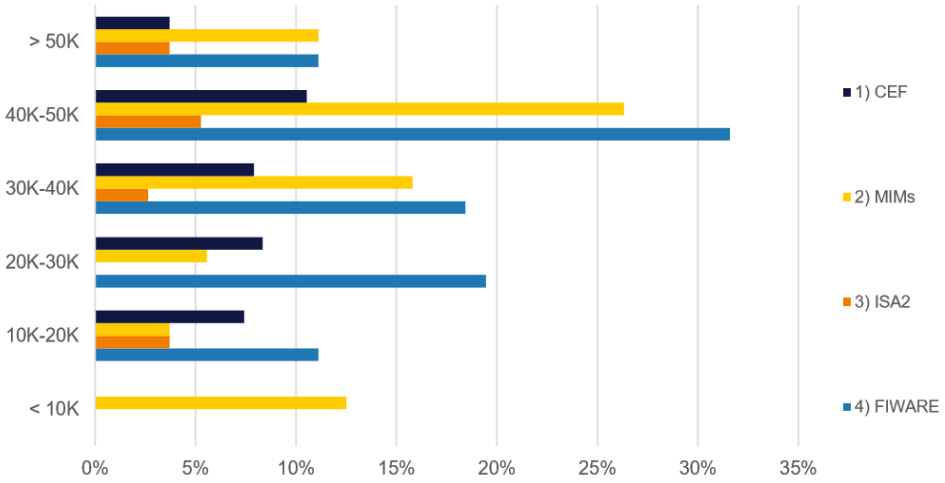


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

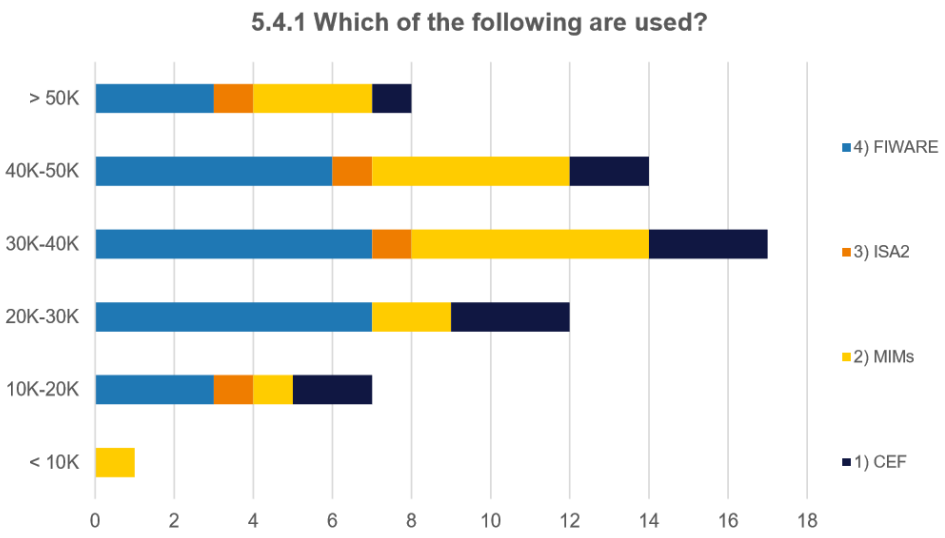


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

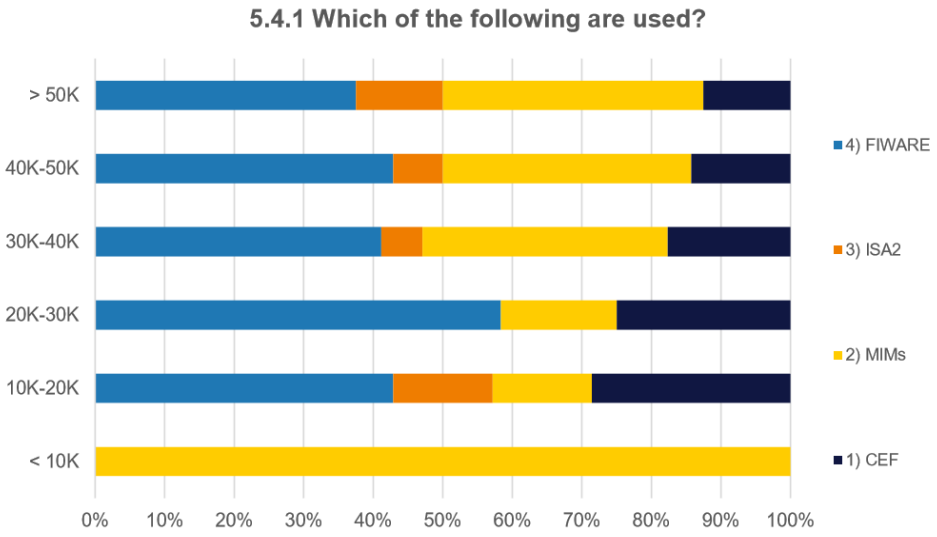
5.4.1 Which of the following are used?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

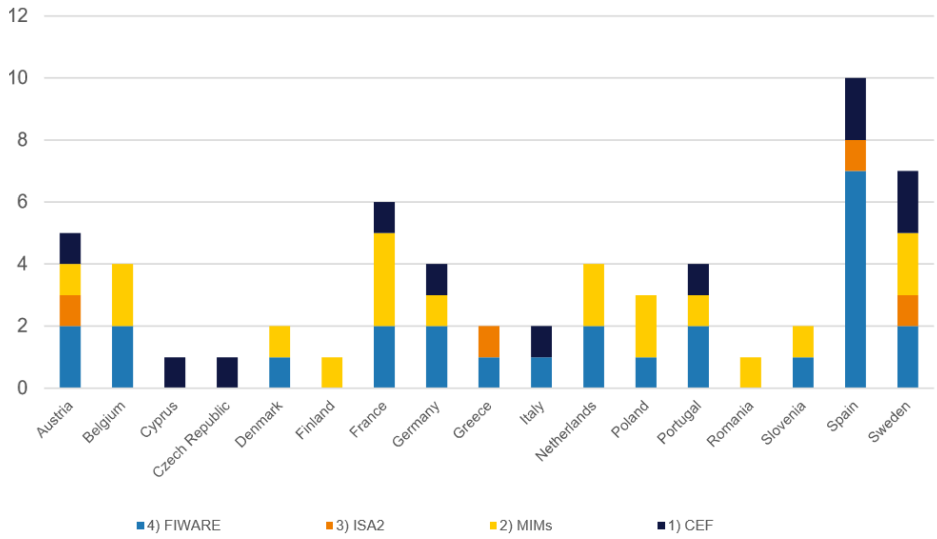


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count



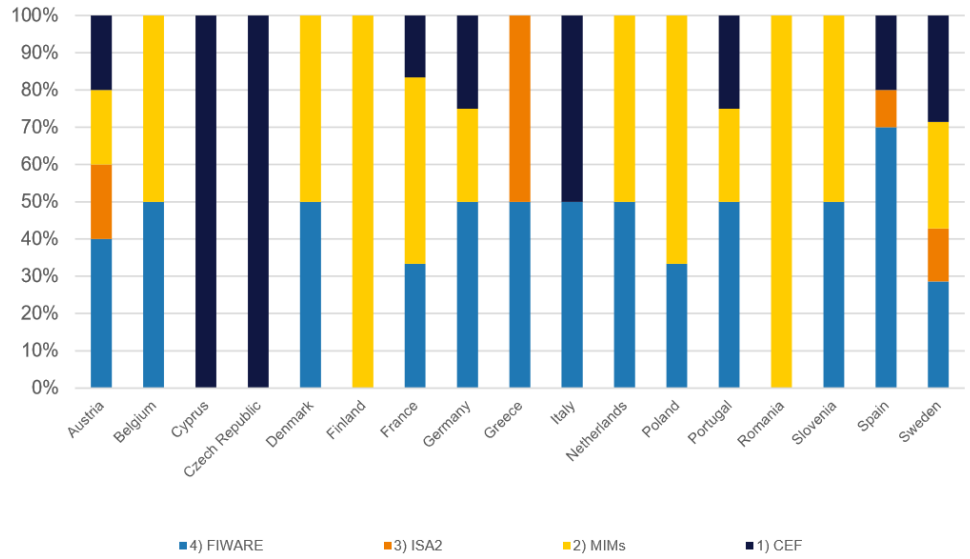
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

5.4.1 Which of the following are used?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

5.4.1 Which of the following are used?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.38 Q_5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?

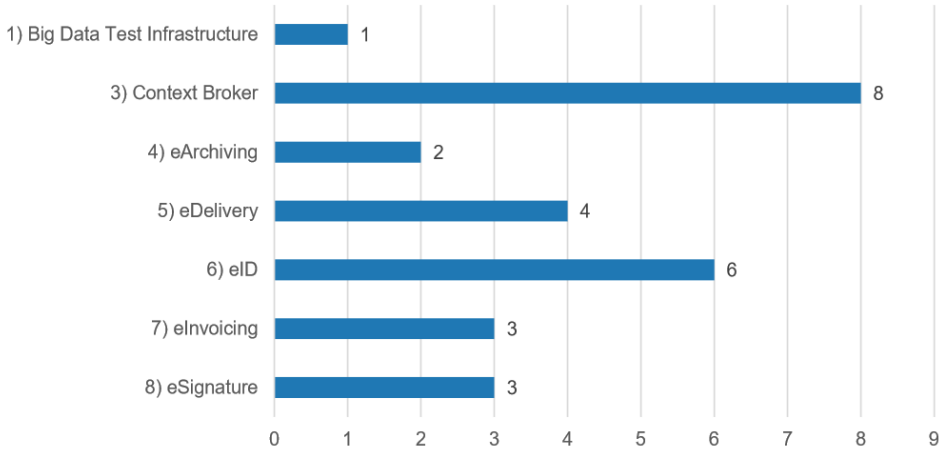
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **12 (5%)**

Answer	*Count*	*Percentage**
1) Big Data Test Infrastructure	1	8%
3) Context Broker	8	67%
4) eArchiving	2	17%
5) eDelivery	4	33%
6) eID	6	50%
7) eInvoicing	3	25%
8) eSignature	3	25%

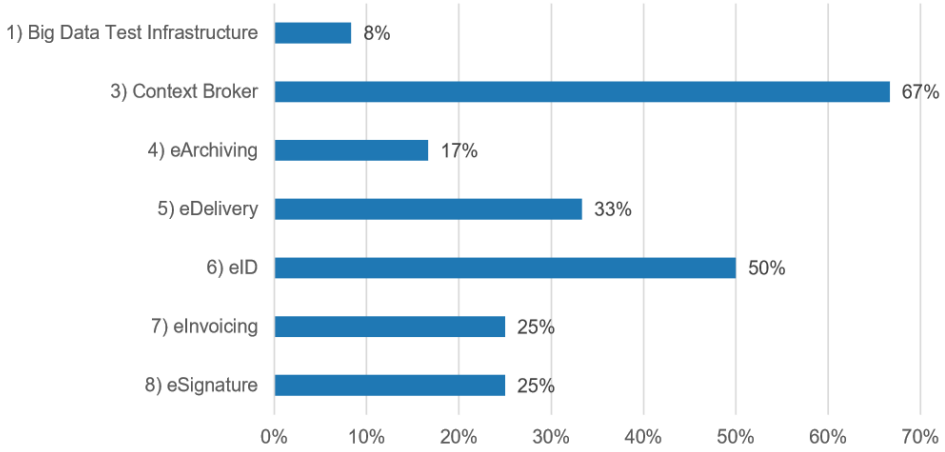
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



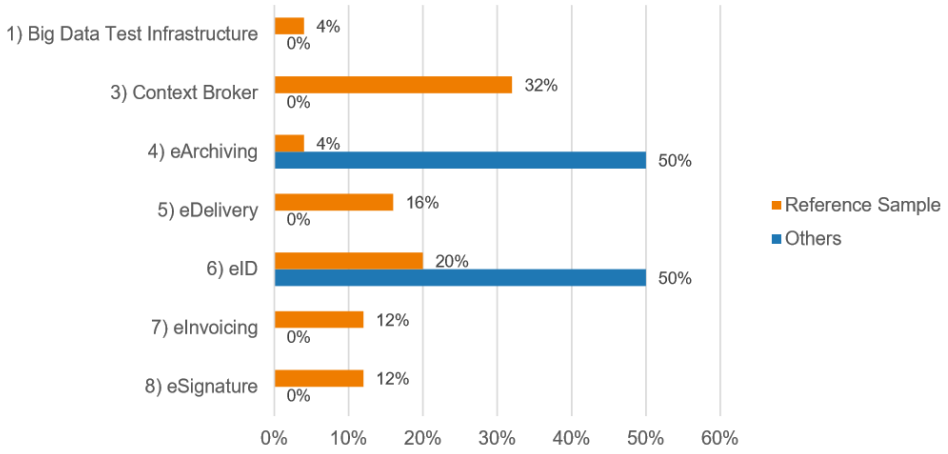
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



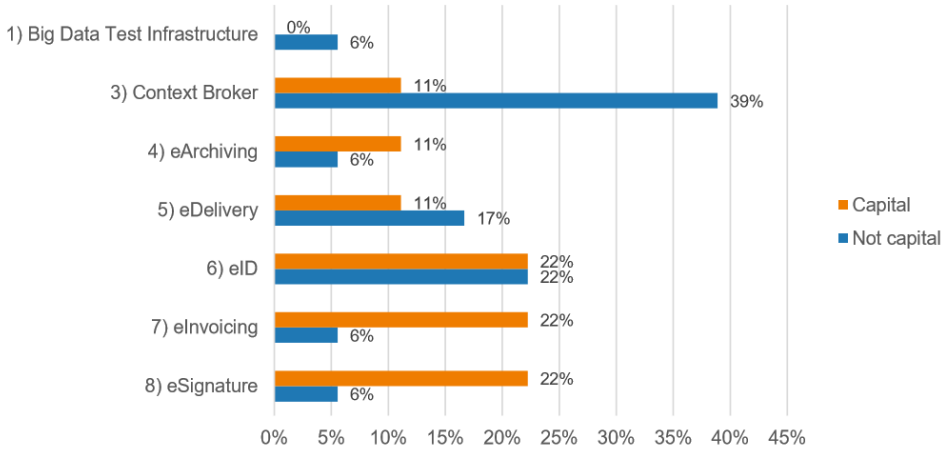
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



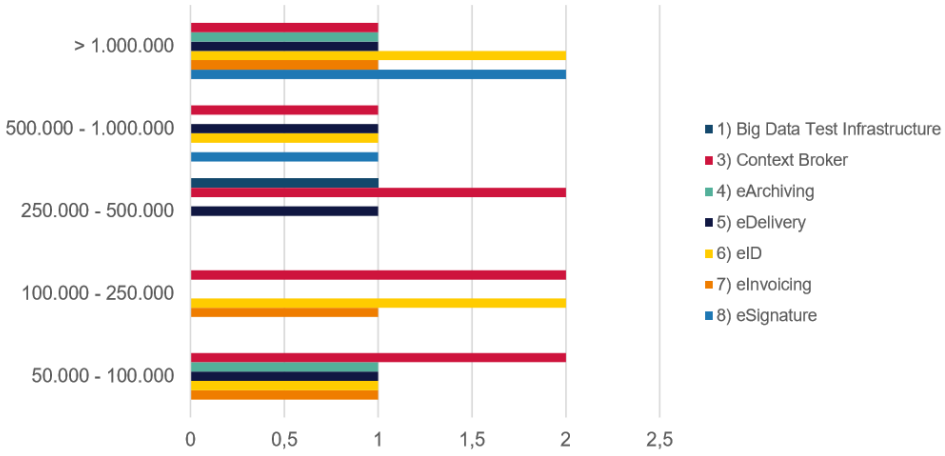
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



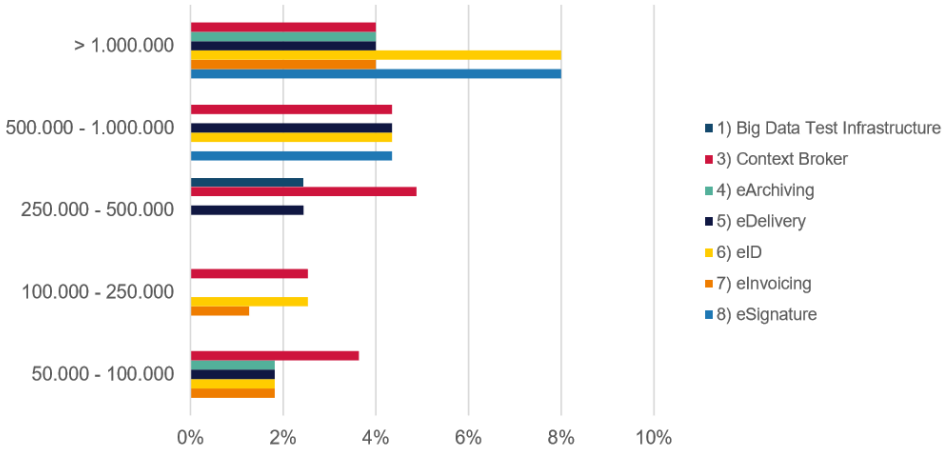
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



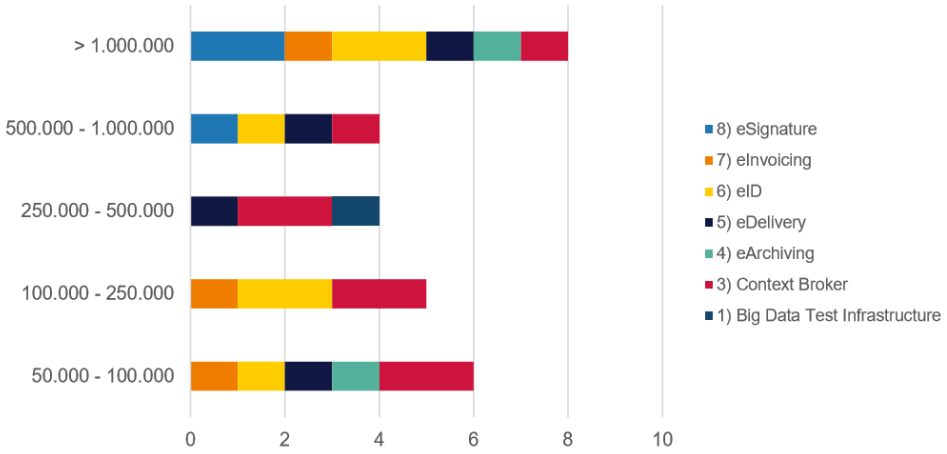
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



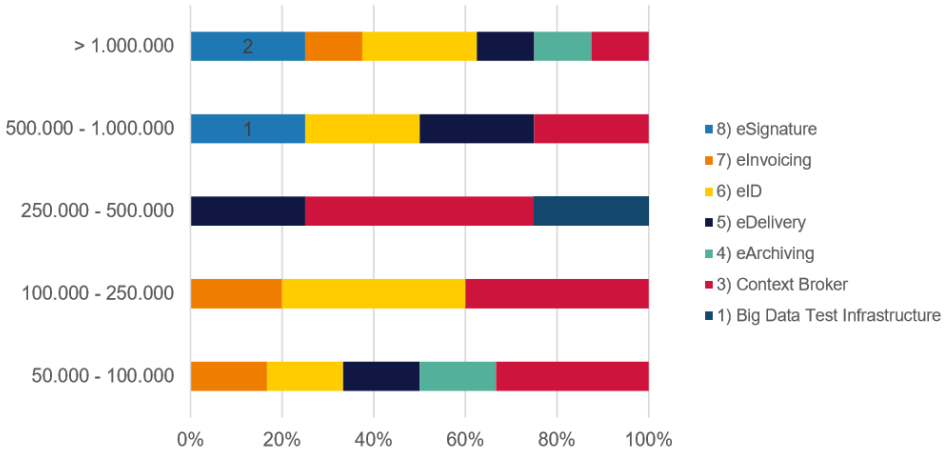
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



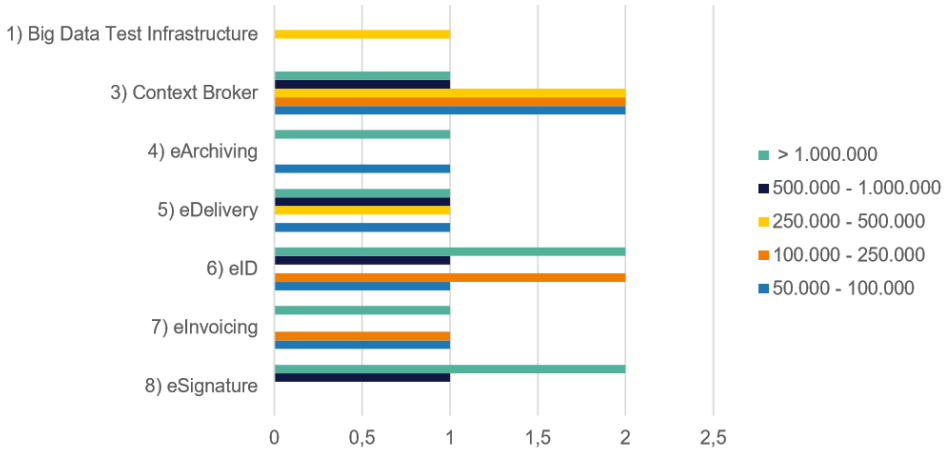
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



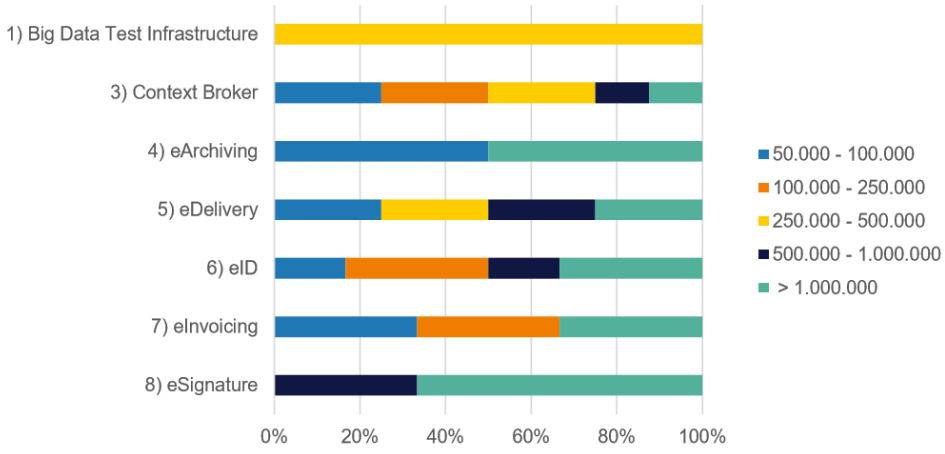
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



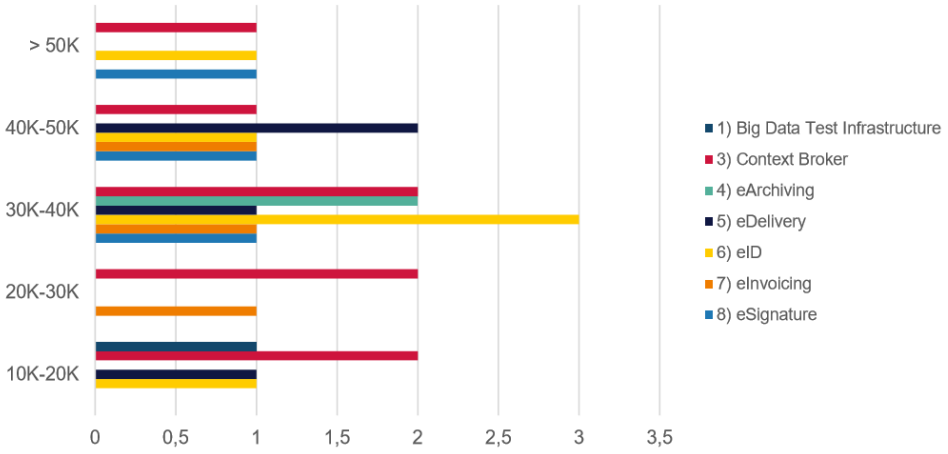
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



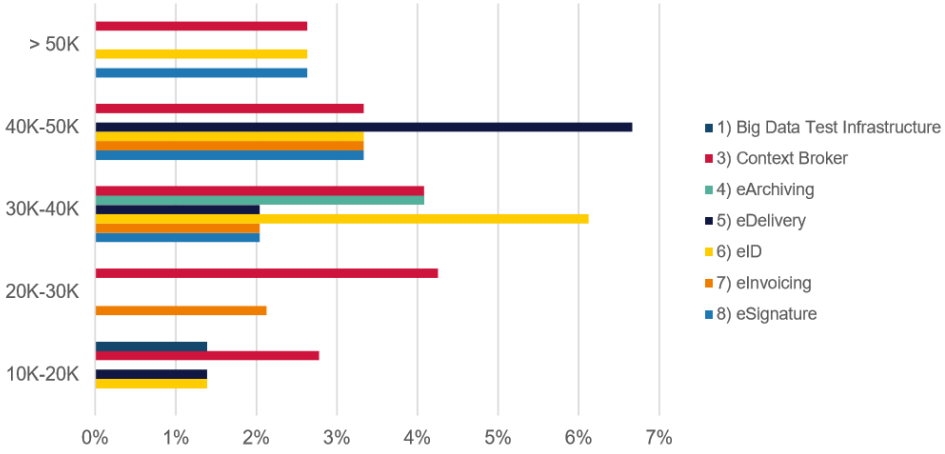
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



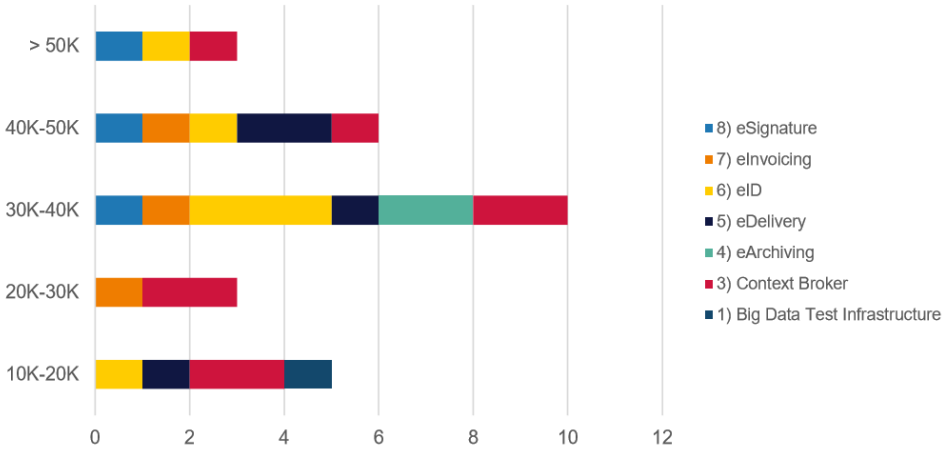
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



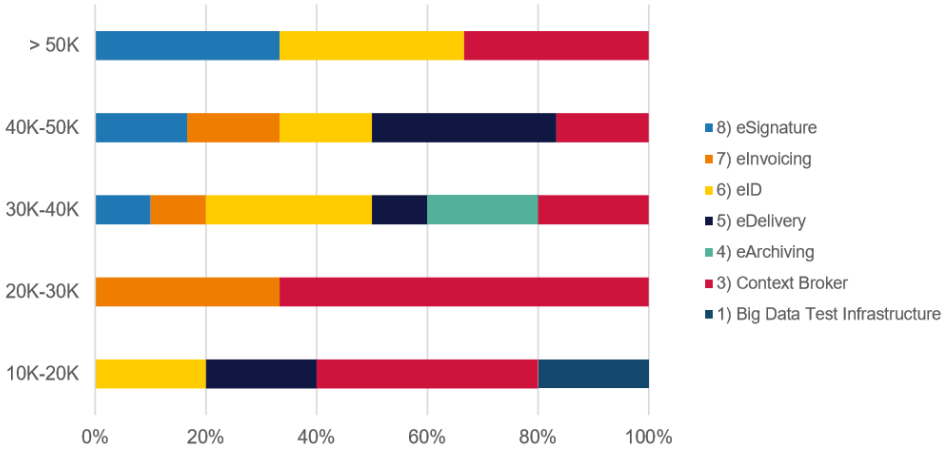
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?

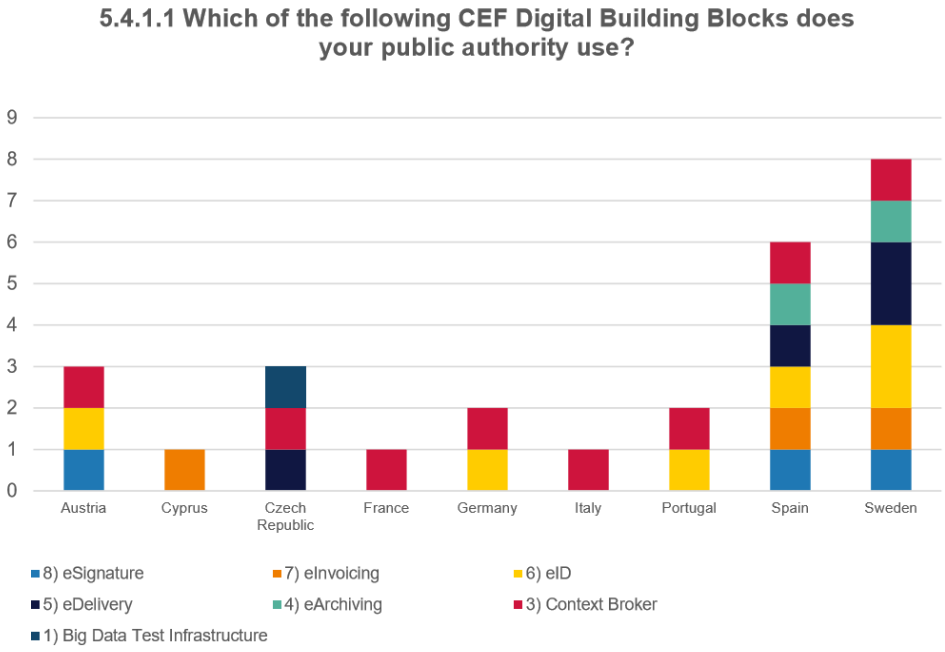


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?

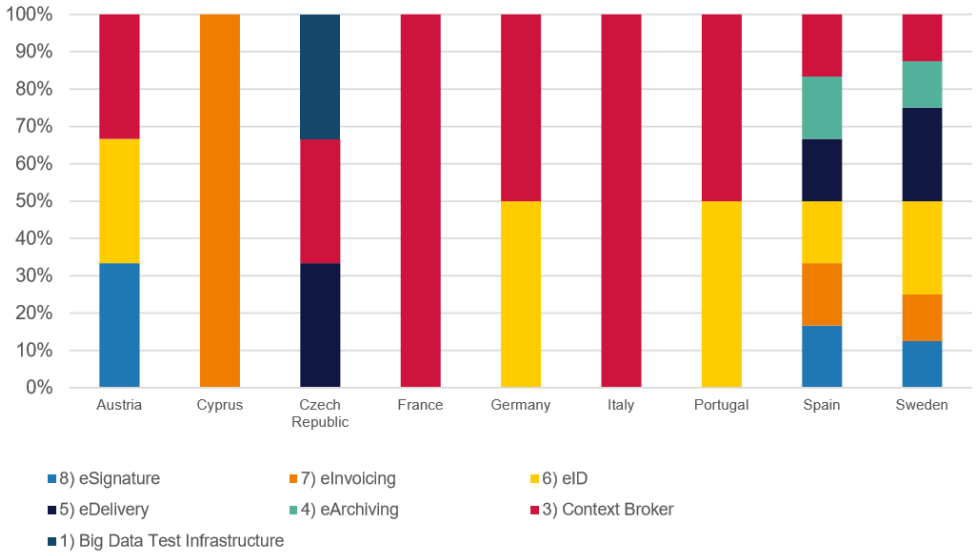


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?

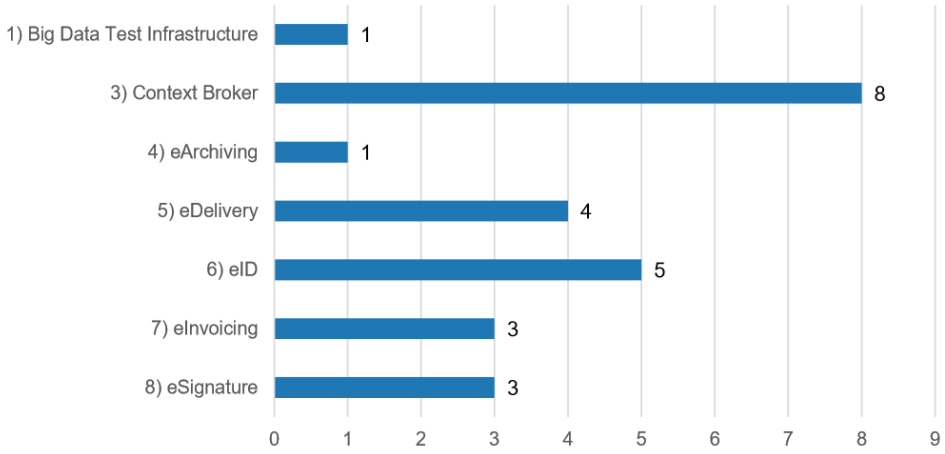
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **11 (7%)**

Answer	*Count*	*Percentage**
1) Big Data Test Infrastructure	1	9%
3) Context Broker	8	73%
4) eArchiving	1	9%
5) eDelivery	4	36%
6) eID	5	45%
7) eInvoicing	3	27%
8) eSignature	3	27%

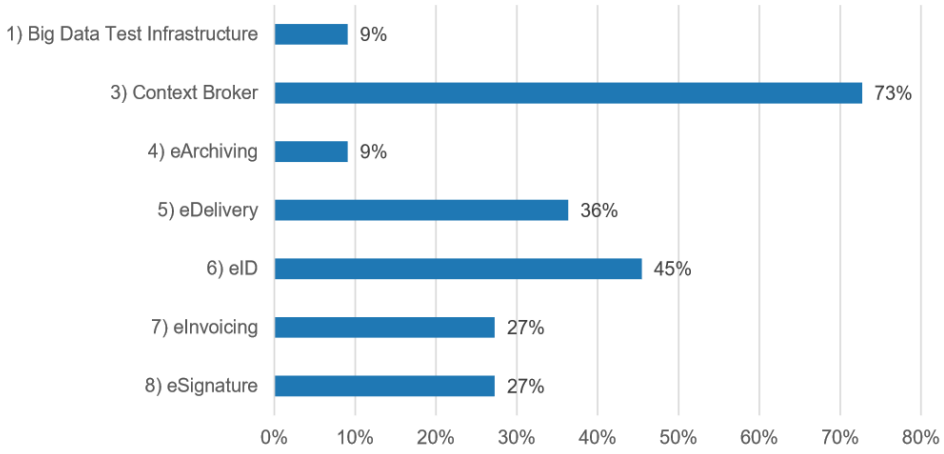
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



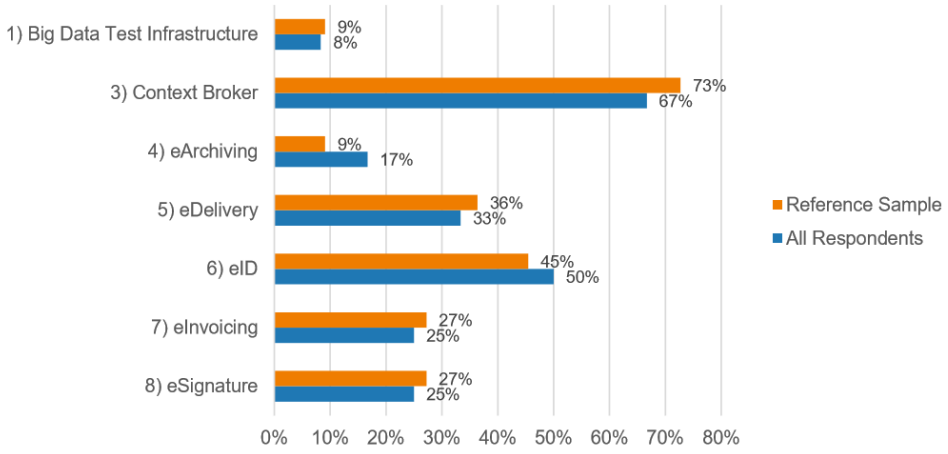
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



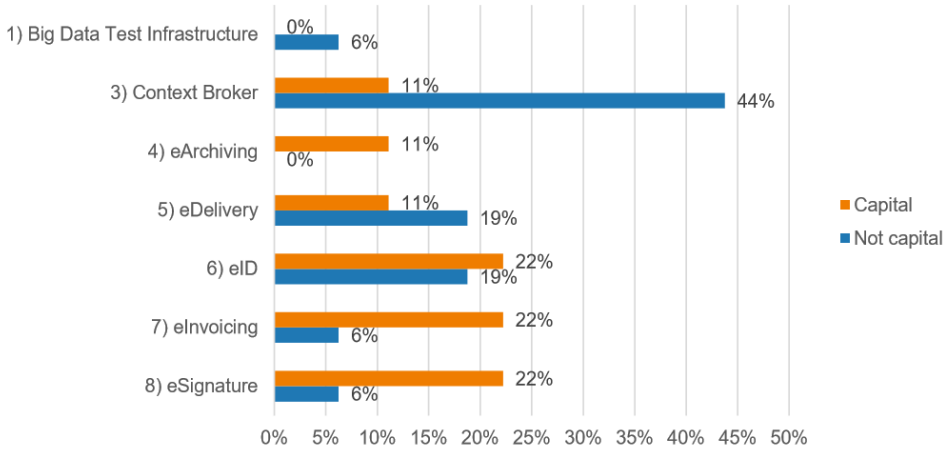
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



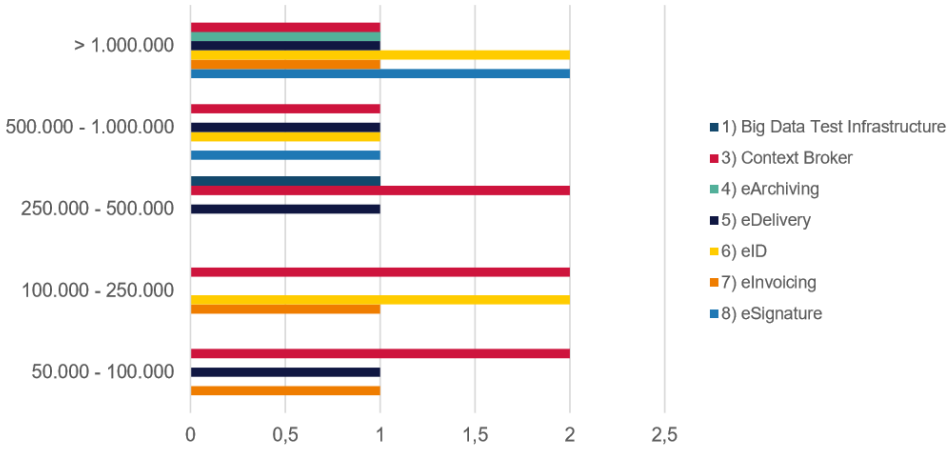
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



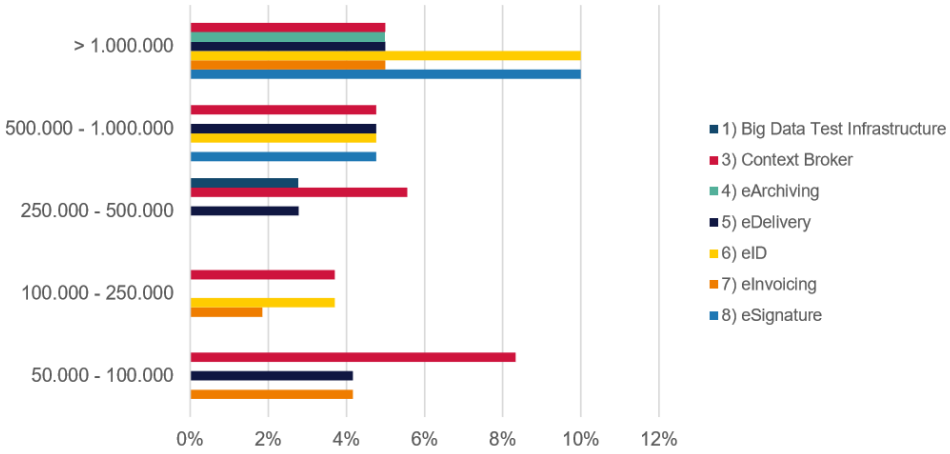
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



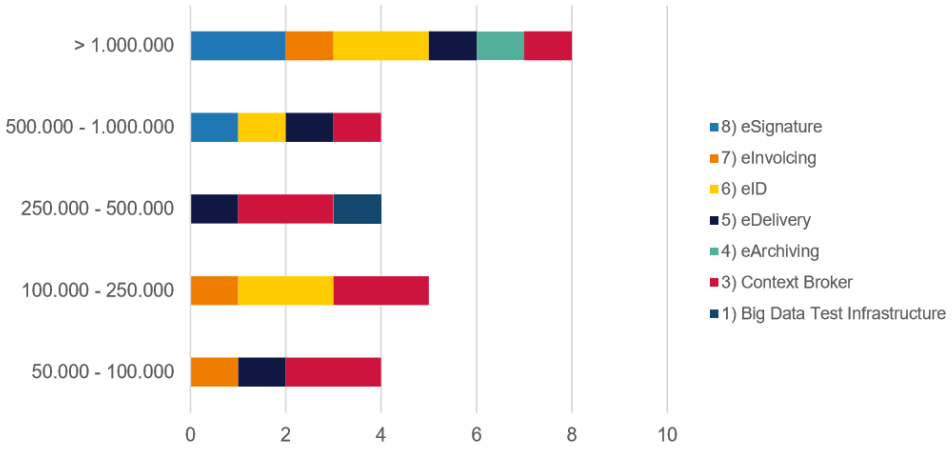
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



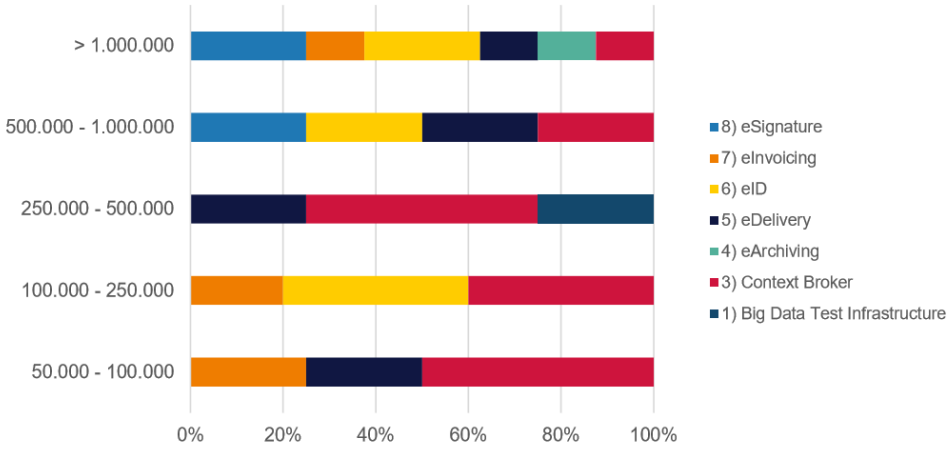
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



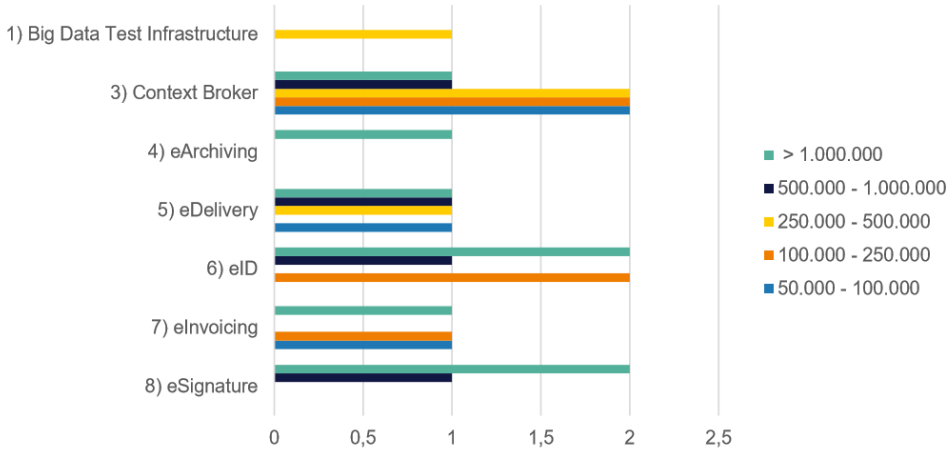
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



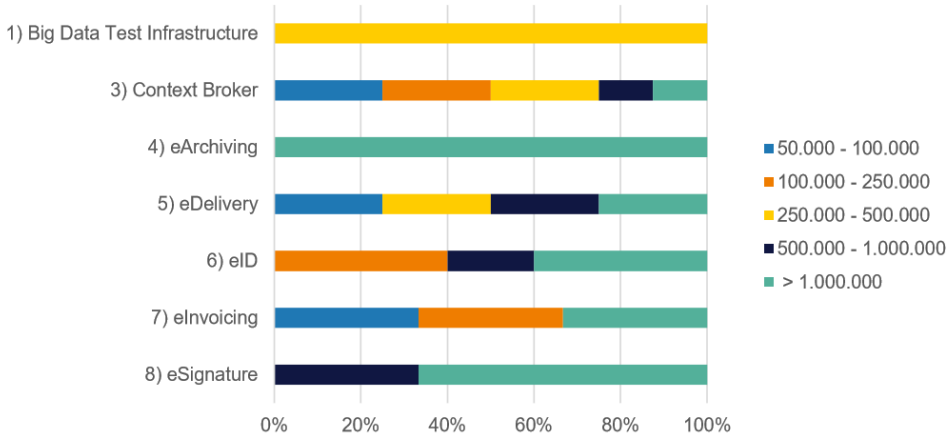
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



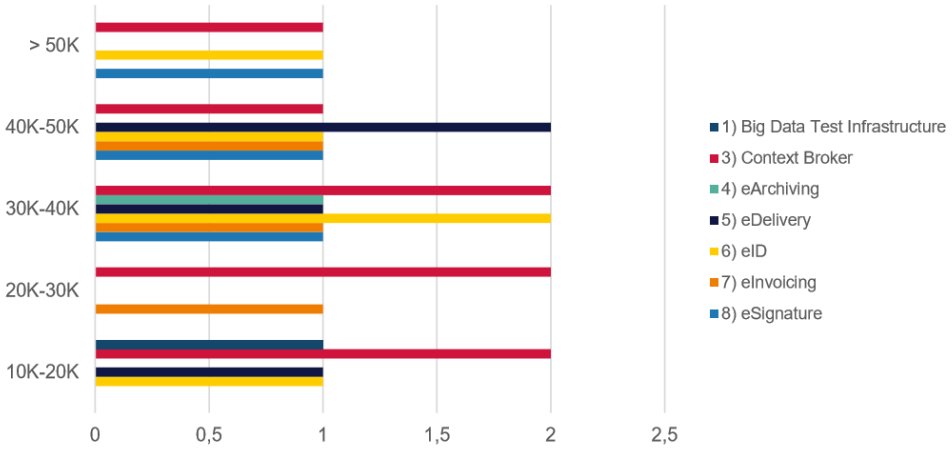
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



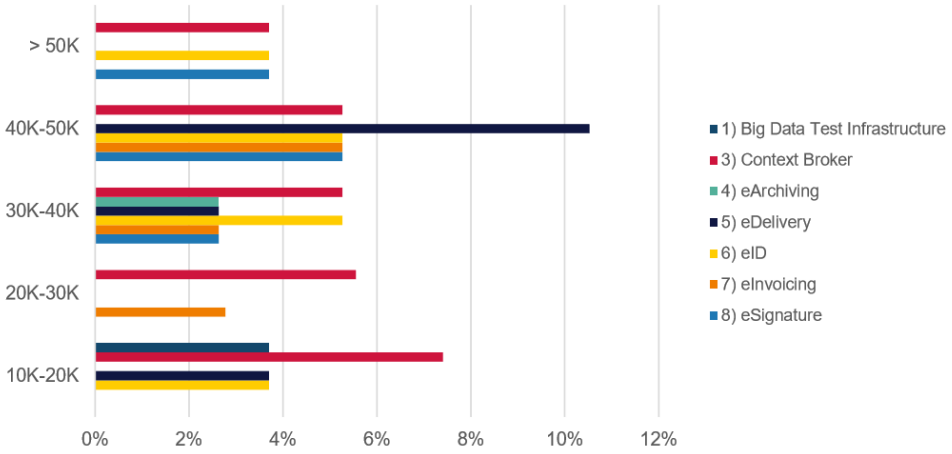
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



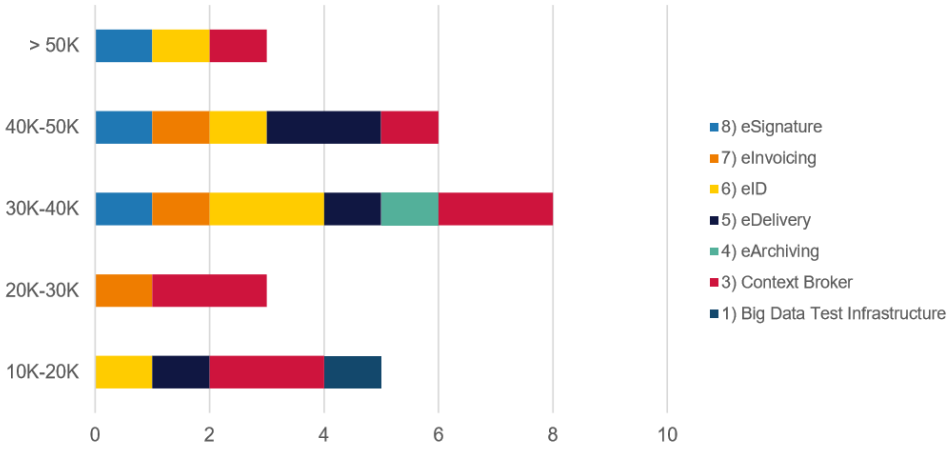
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



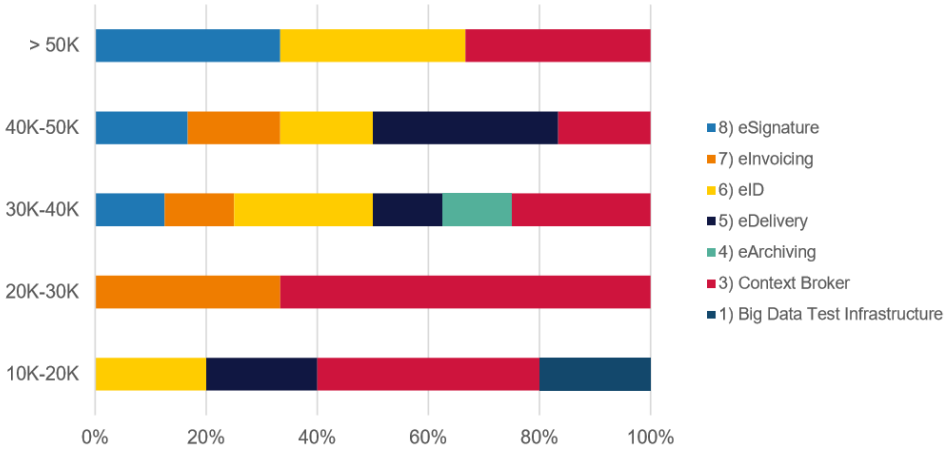
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



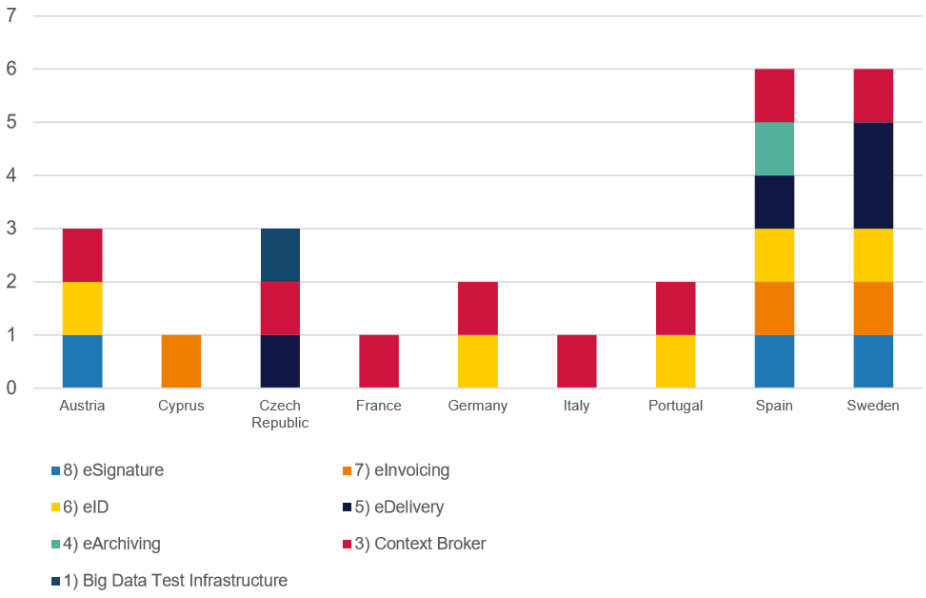
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



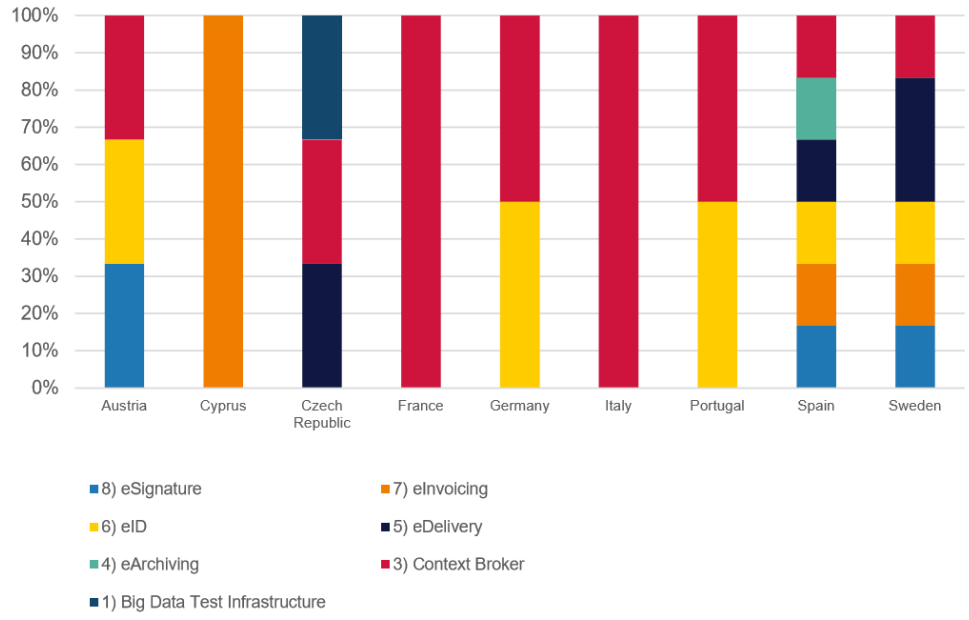
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

5.4.1.1 Which of the following CEF Digital Building Blocks does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.39 Q_5.4.1.2 Which of the following ISA2 services does your public authority use?

5.4.1.2 Which of the following ISA2 services does your public authority use?

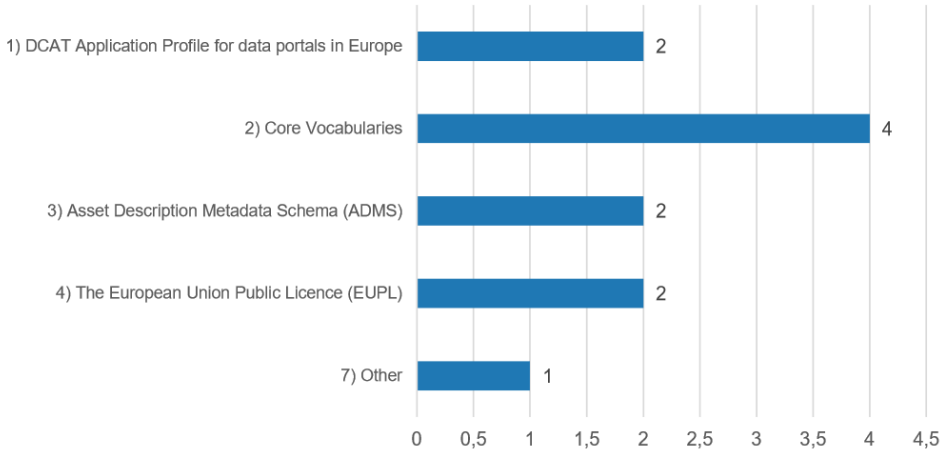
ALL RESPONDENTS

Question type:	***Multiple choice***
Number of analysed questionnaires:	**246**
Number of cities respond to this specific question:	**5 (2%)**

Answer	*Count*	*Percentage**
1) DCAT Application Profile for data portals in Europe	2	40%
2) Core Vocabularies	4	80%
3) Asset Description Metadata Schema (ADMS)	2	40%
4) The European Union Public Licence (EUPL)	2	40%
7) Other	1	20%

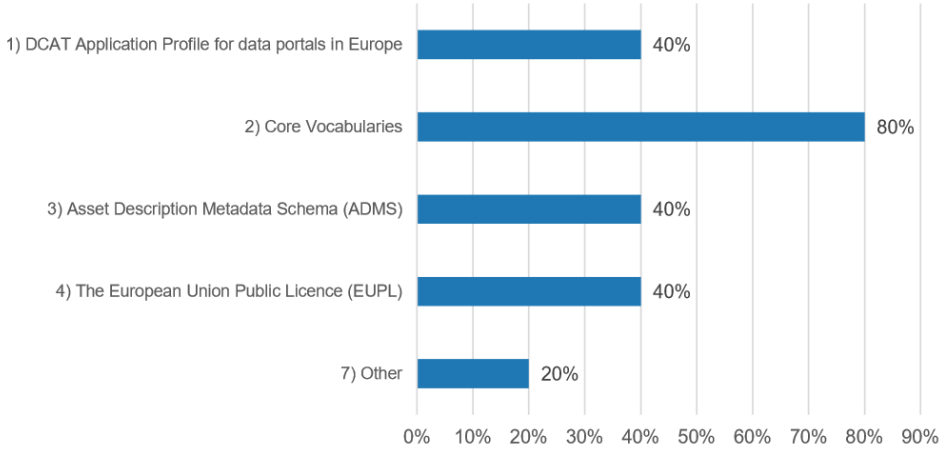
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4.1.2 Which of the following ISA2 services does your public authority use?



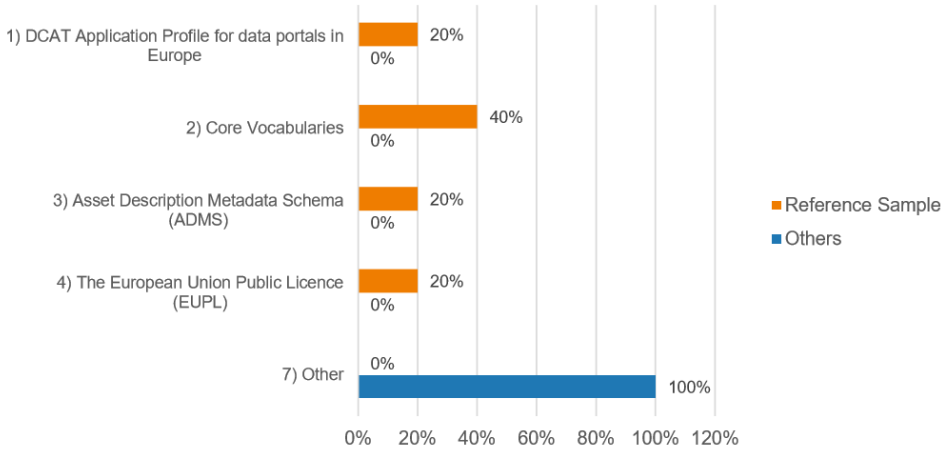
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?



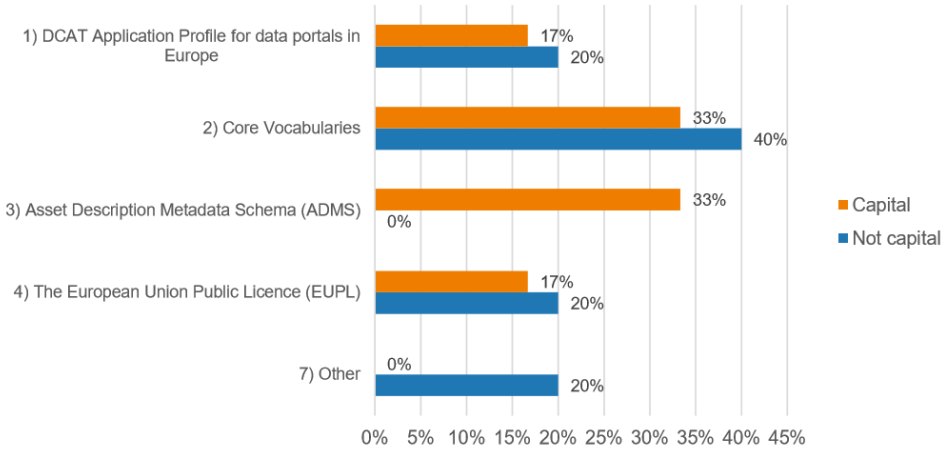
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



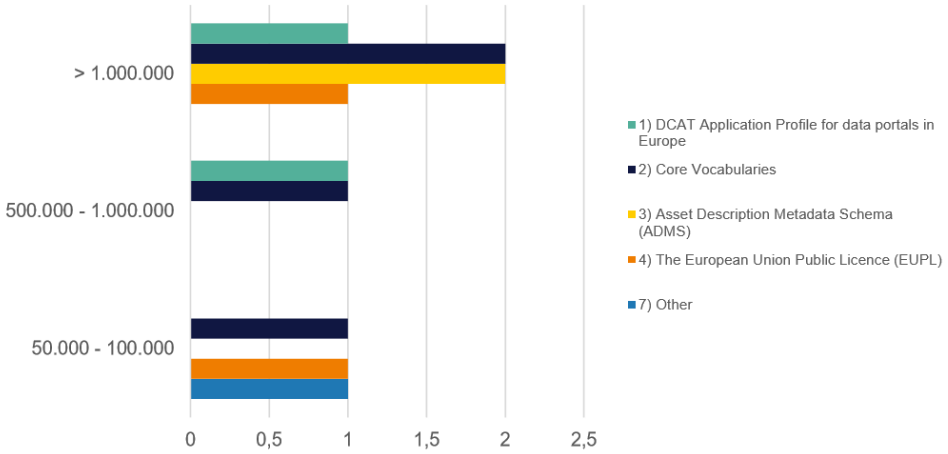
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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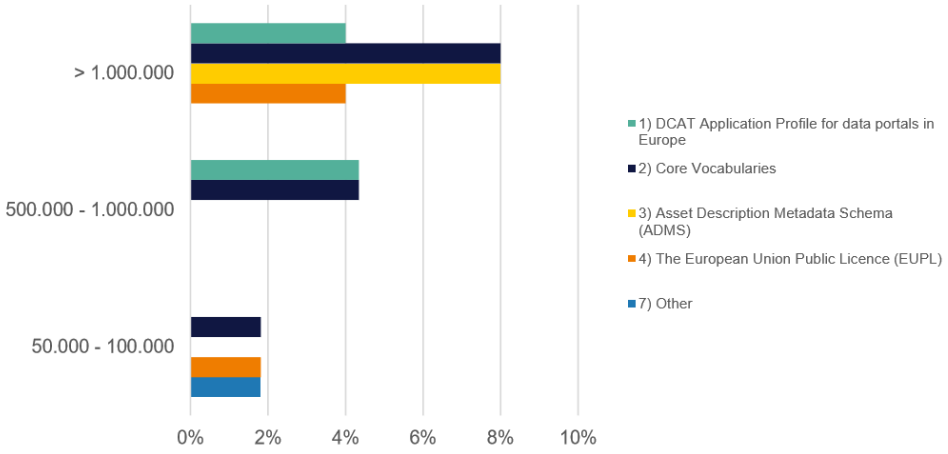

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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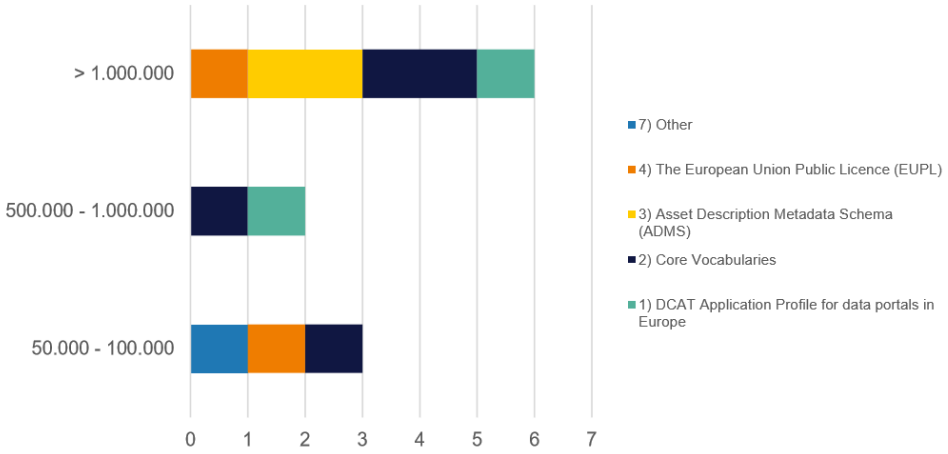

Question type	Data sample	Cluster	Value
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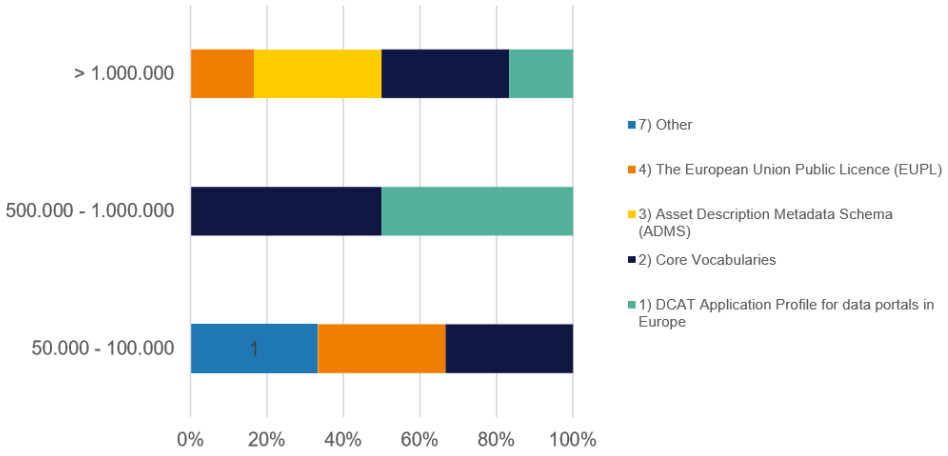

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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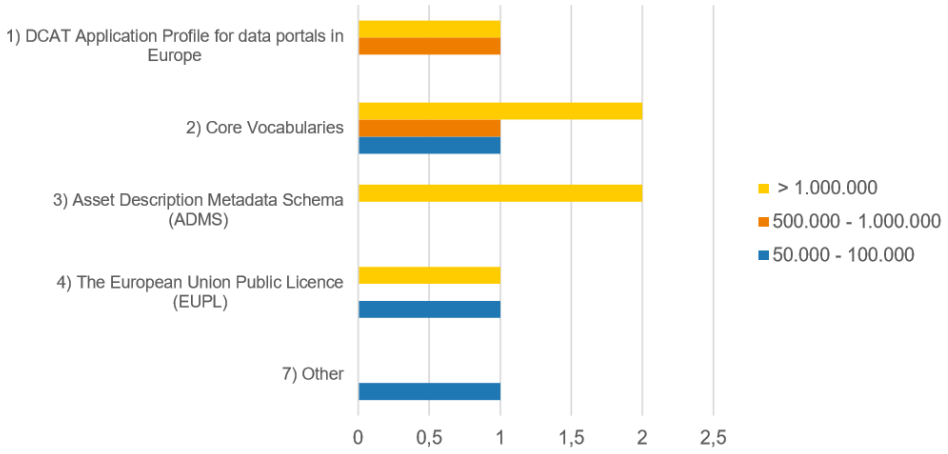

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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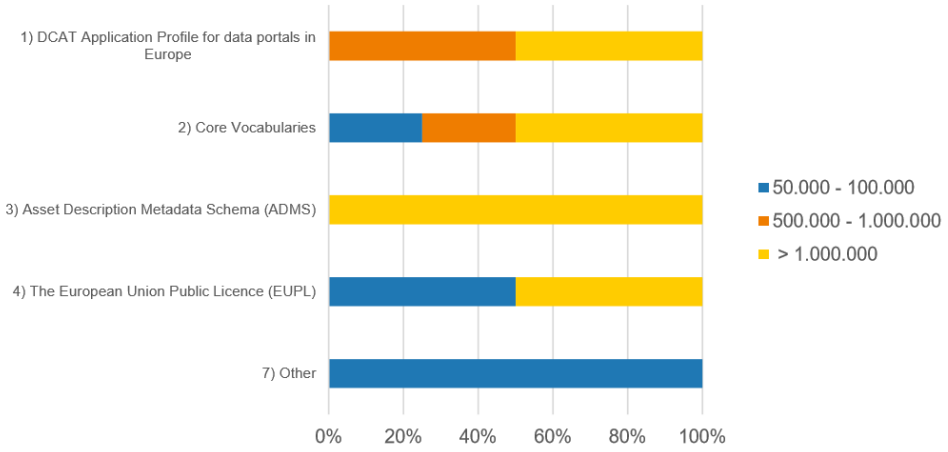
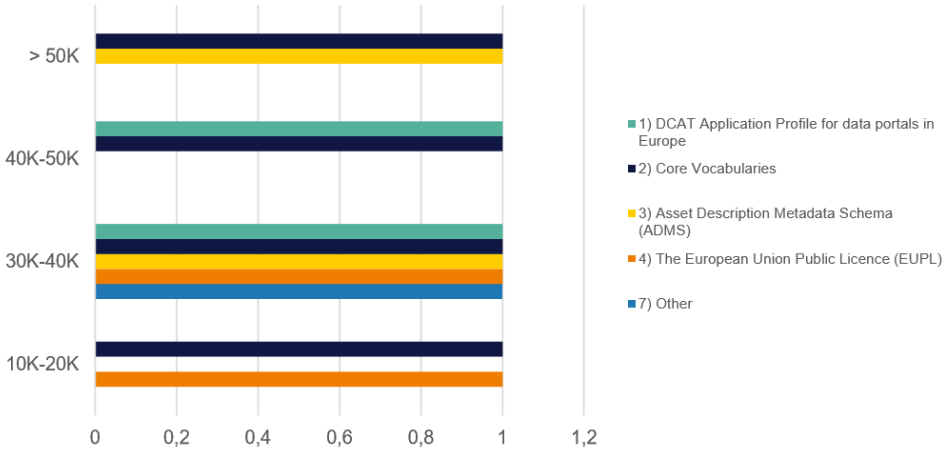


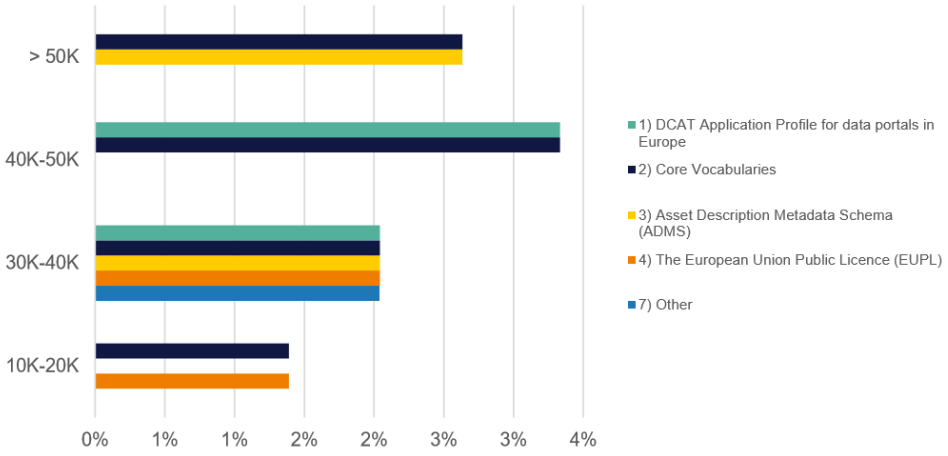
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



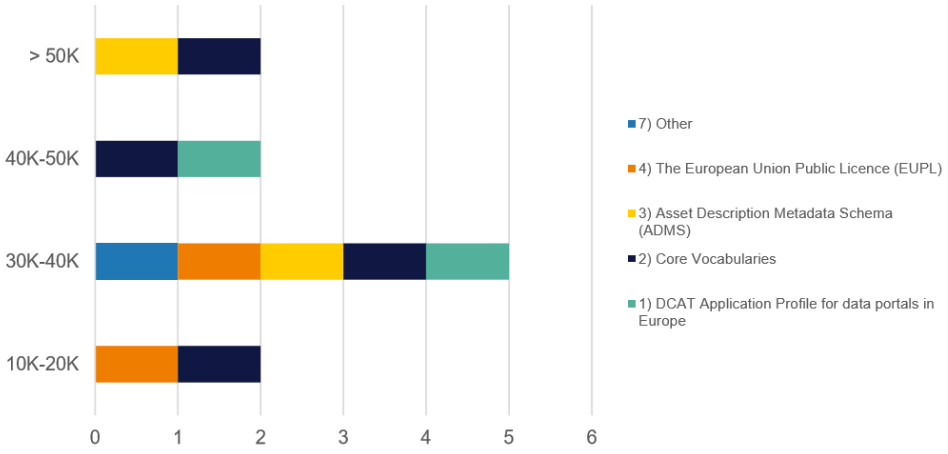
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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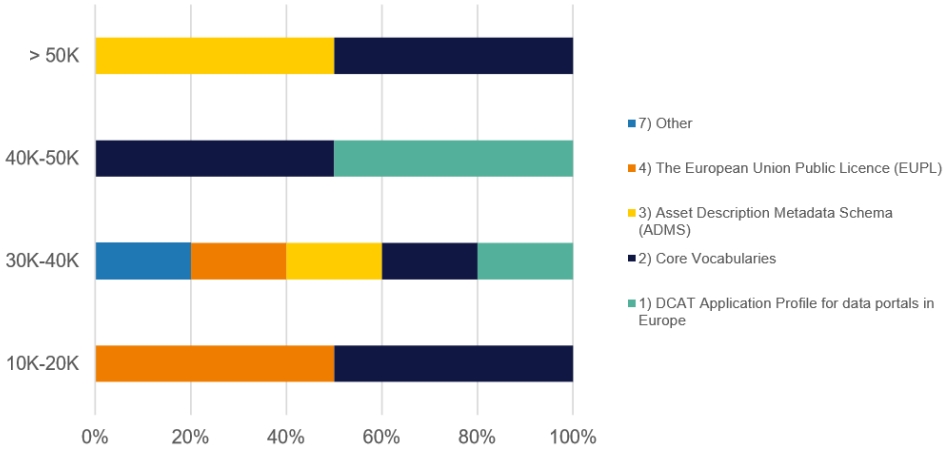
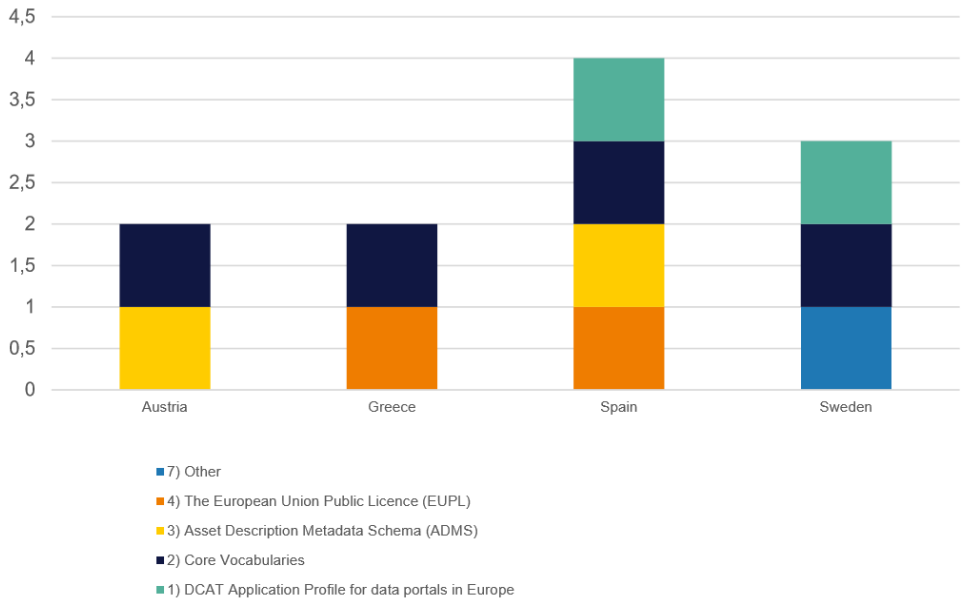


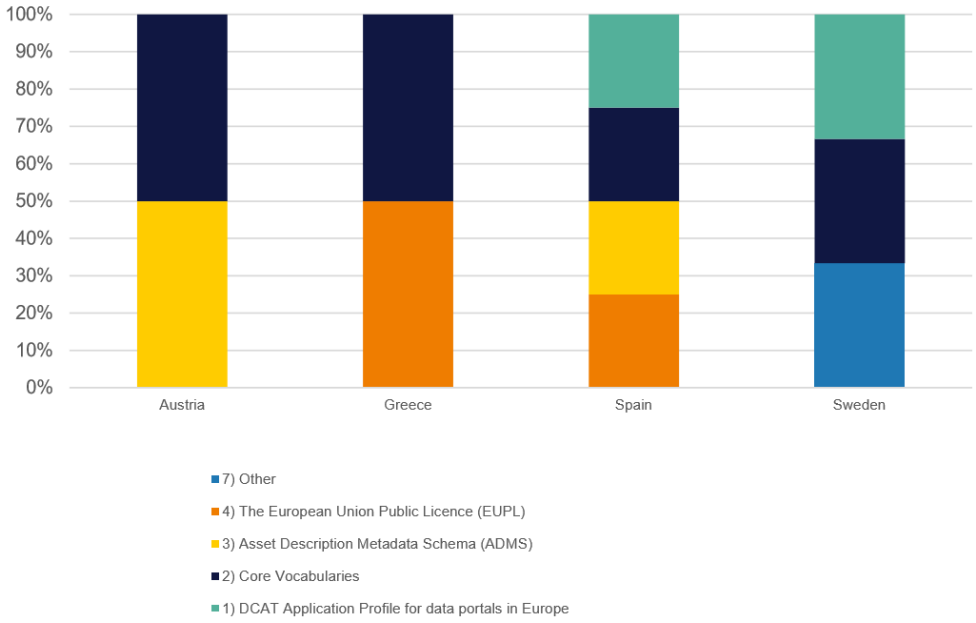
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?

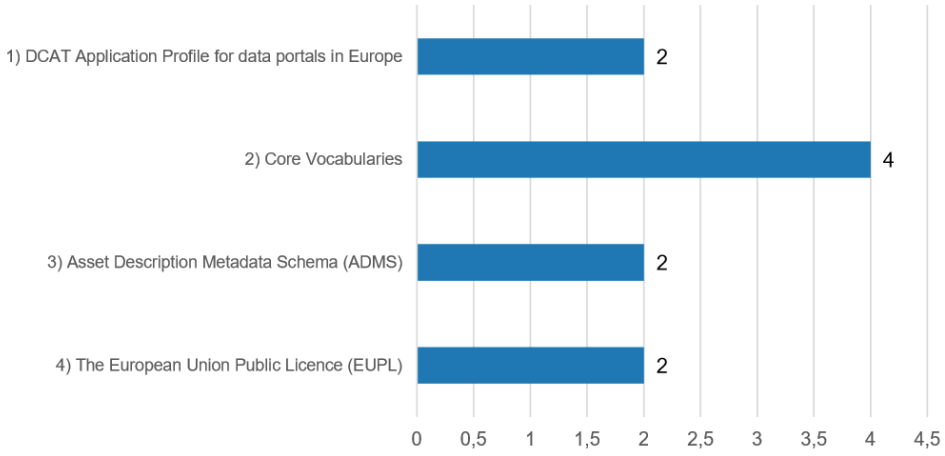
REFERENCE SAMPLE

Question type:	***Multiple choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**4 (3%)**

Answer	*Count*	*Percentage**
1) DCAT Application Profile for data portals in Europe	2	50%
2) Core Vocabularies	4	100%
3) Asset Description Metadata Schema (ADMS)	2	50%
4) The European Union Public Licence (EUPL)	2	50%

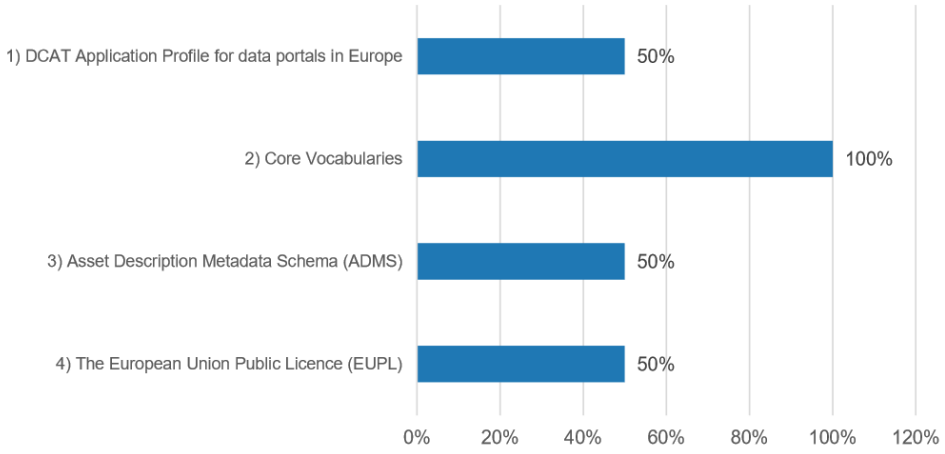
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

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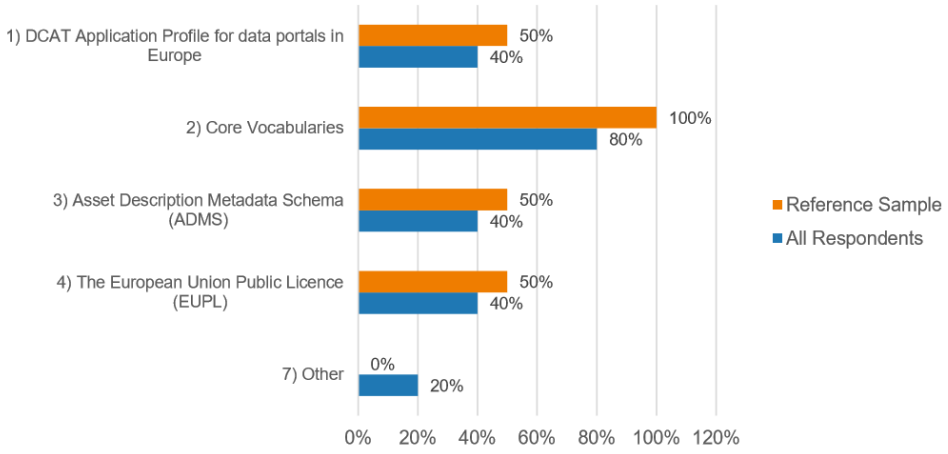

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

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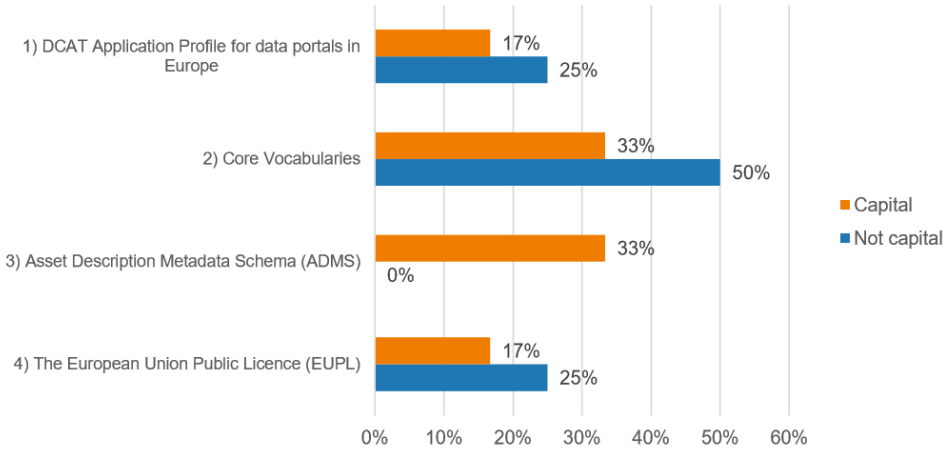
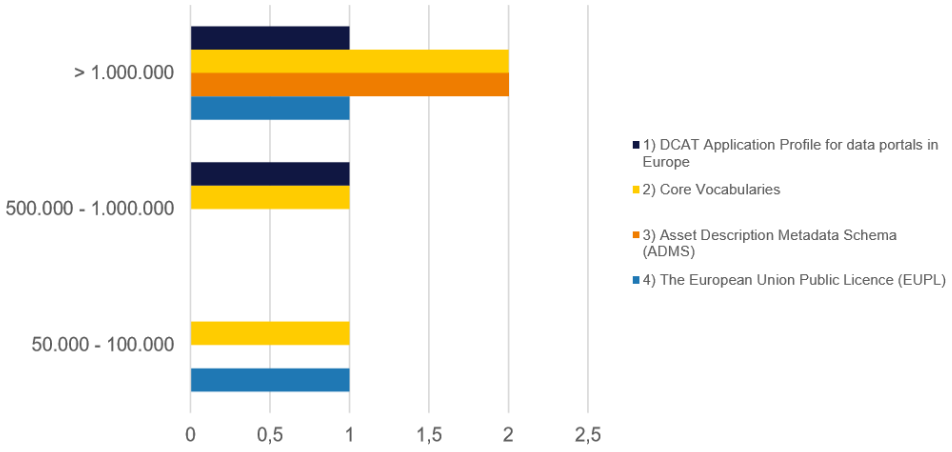


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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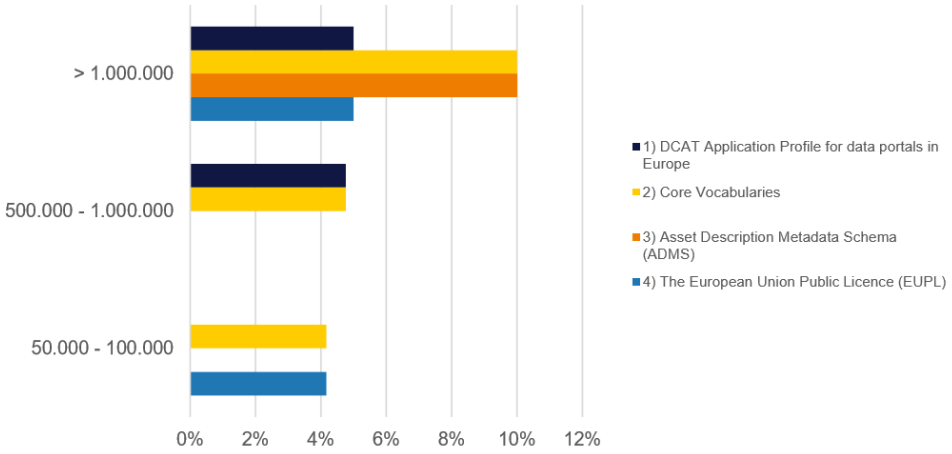

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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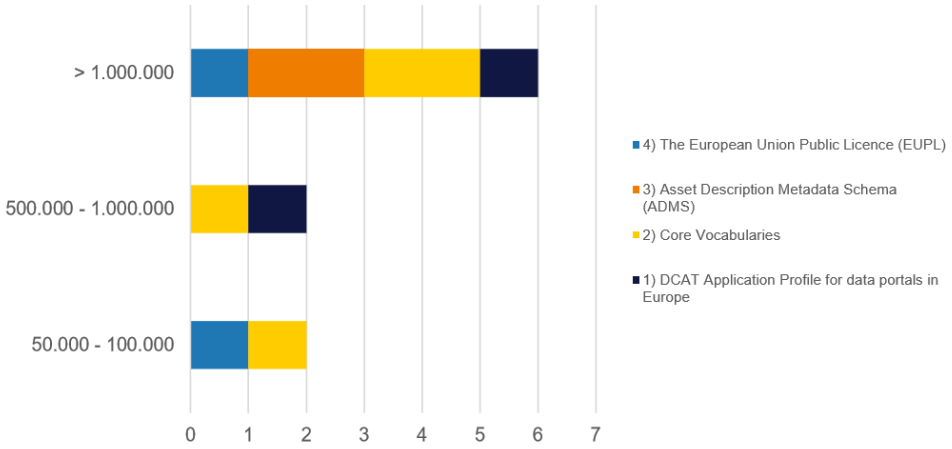

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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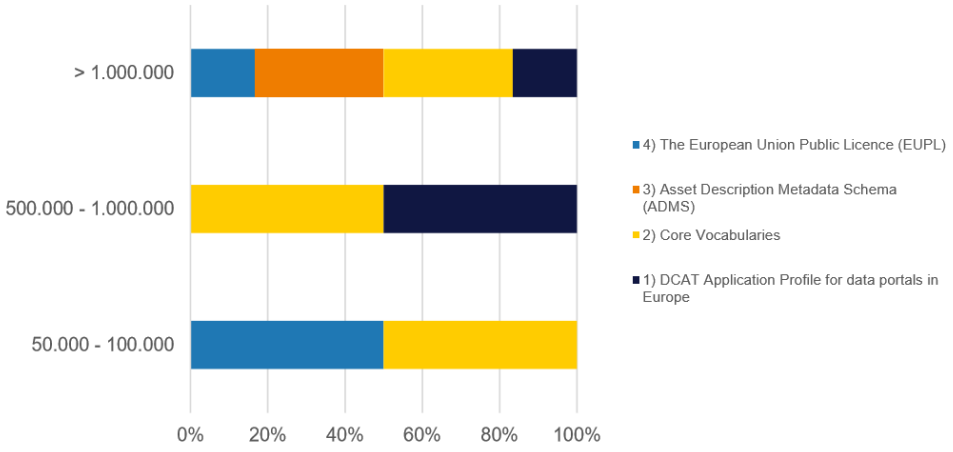
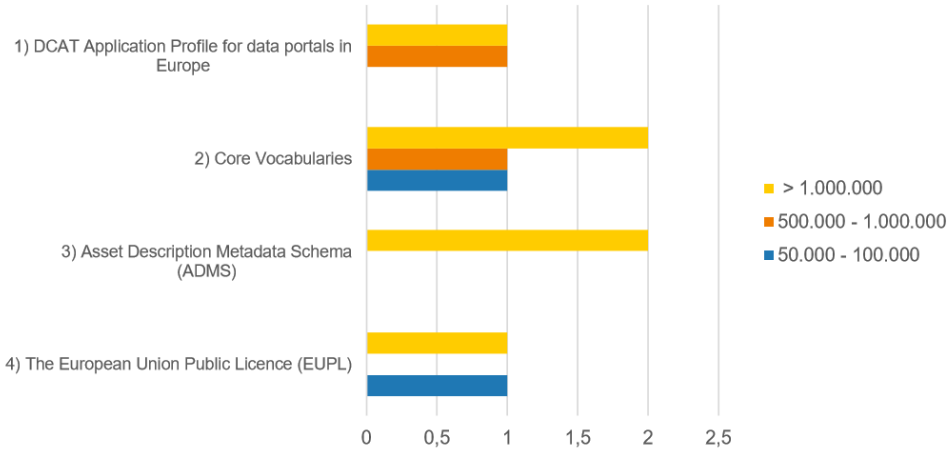


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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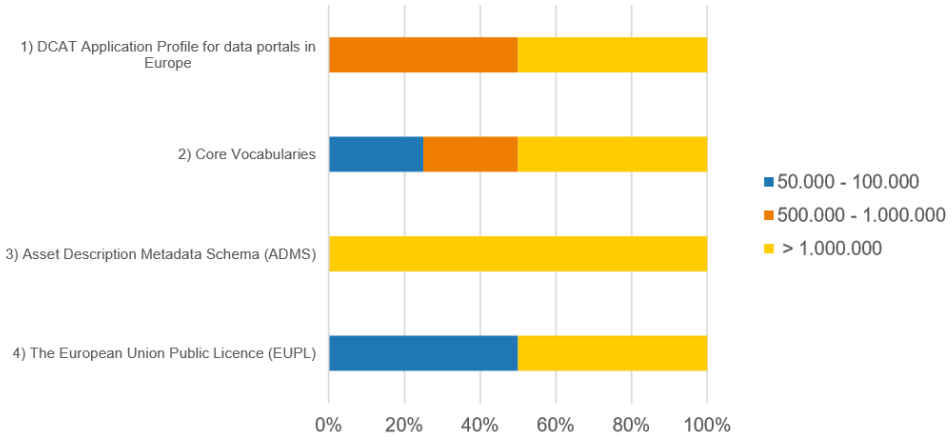
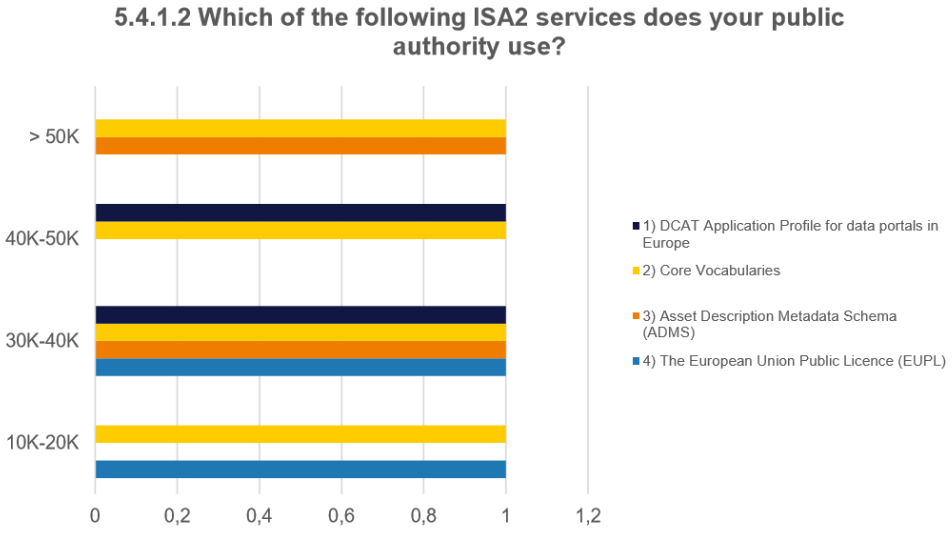
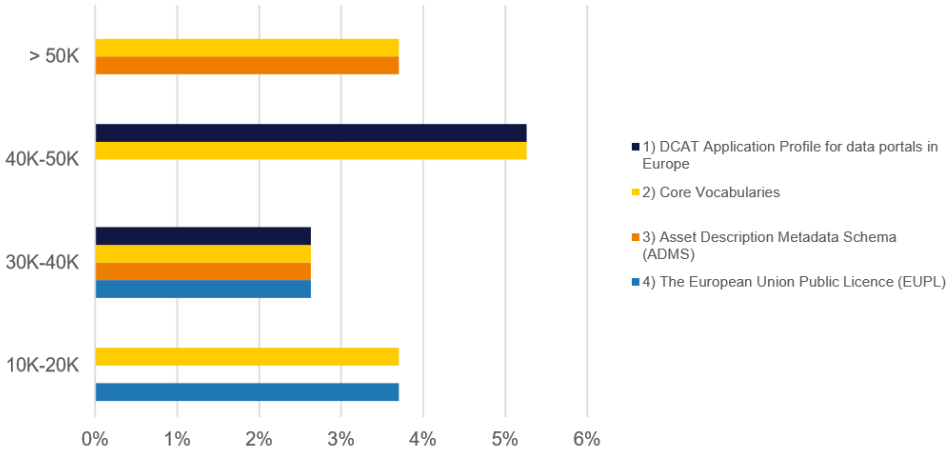


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

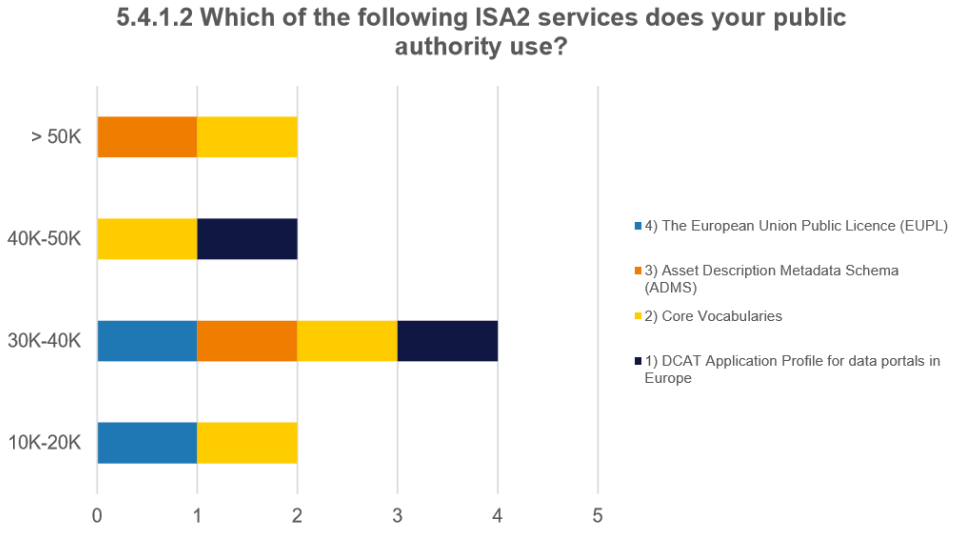


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?

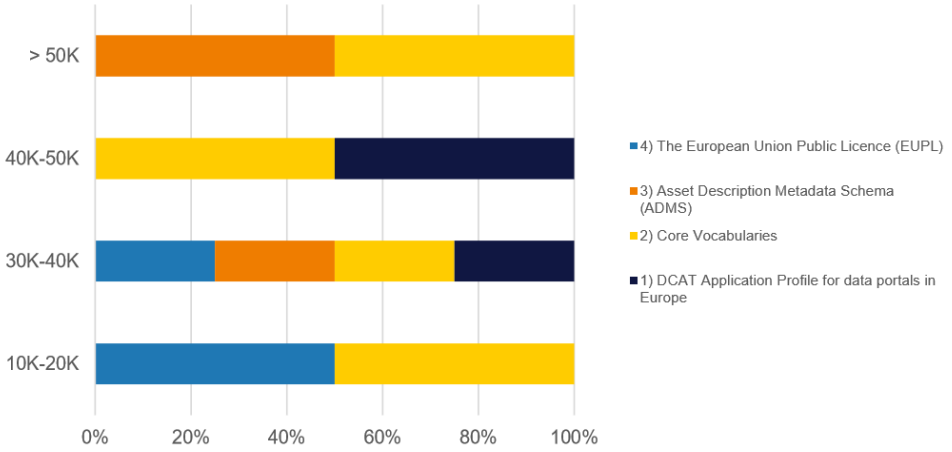


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage

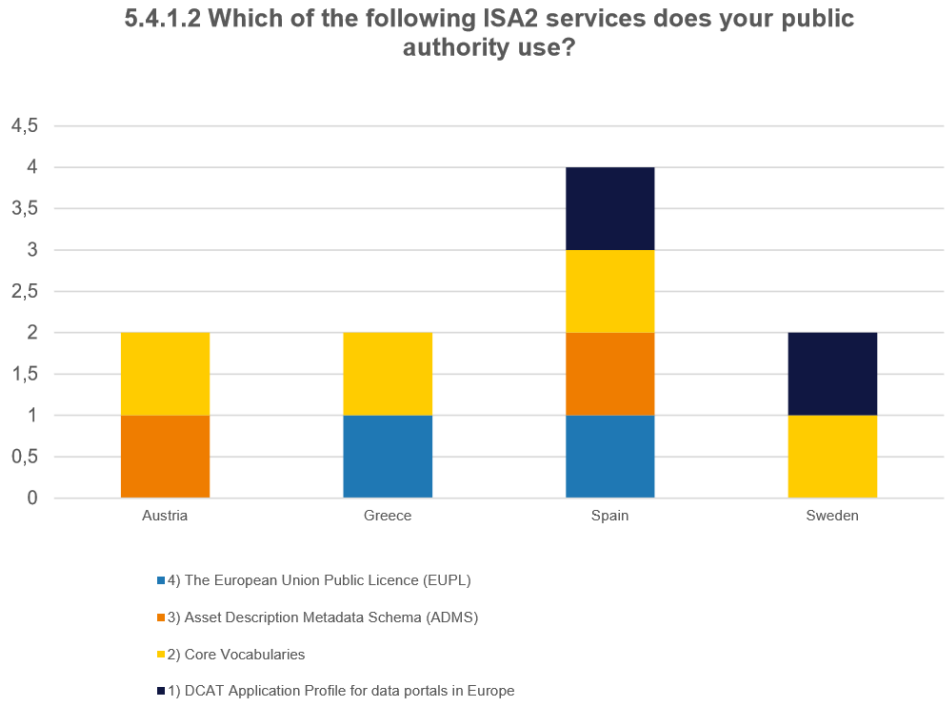


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?

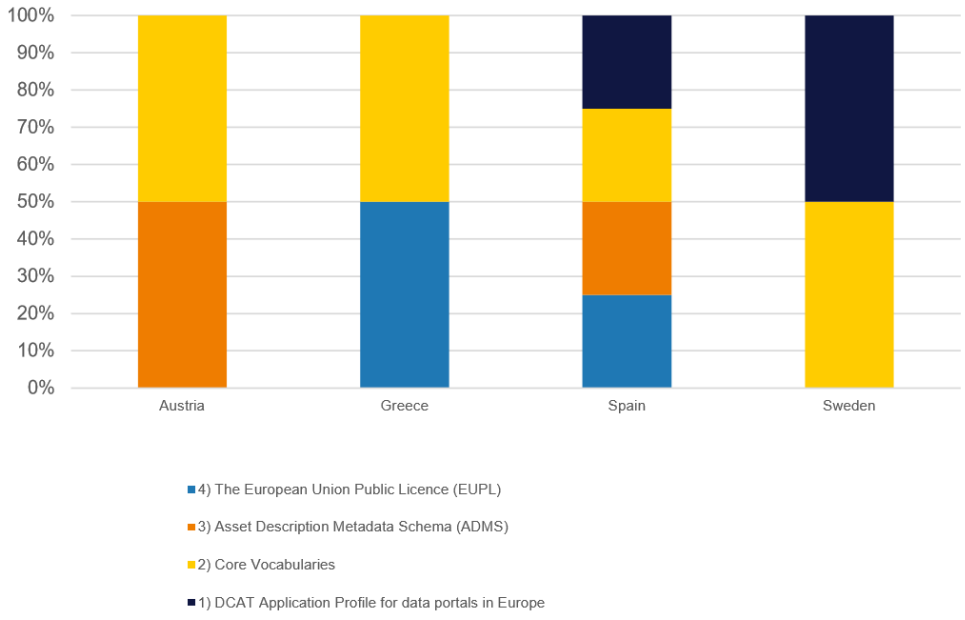


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

5.4.1.2 Which of the following ISA2 services does your public authority use?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.40 Q_5.5 Does your public authority apply the once-only principle in its services?

5.5 Does your public authority apply the once-only principle in its services?

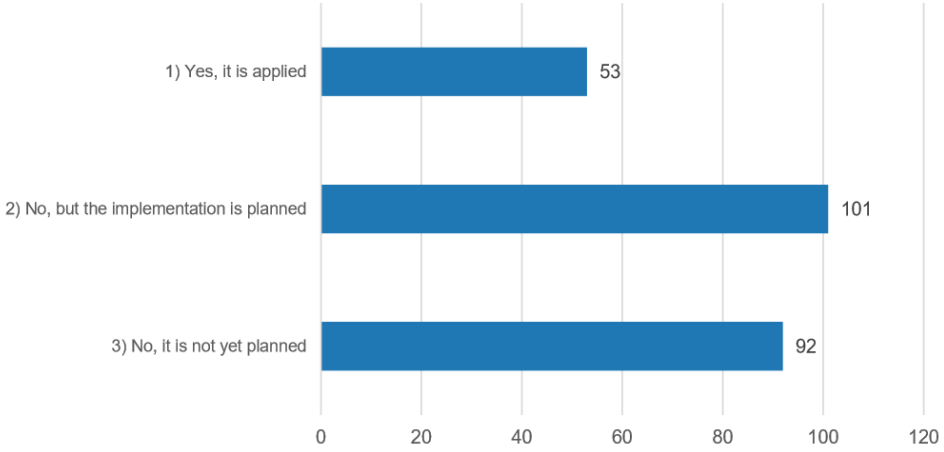
ALL RESPONDENTS

Question type: ***Single choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Yes, it is applied	53	22%
2) No, but the implementation is planned	101	41%
3) No, it is not yet planned	92	37%

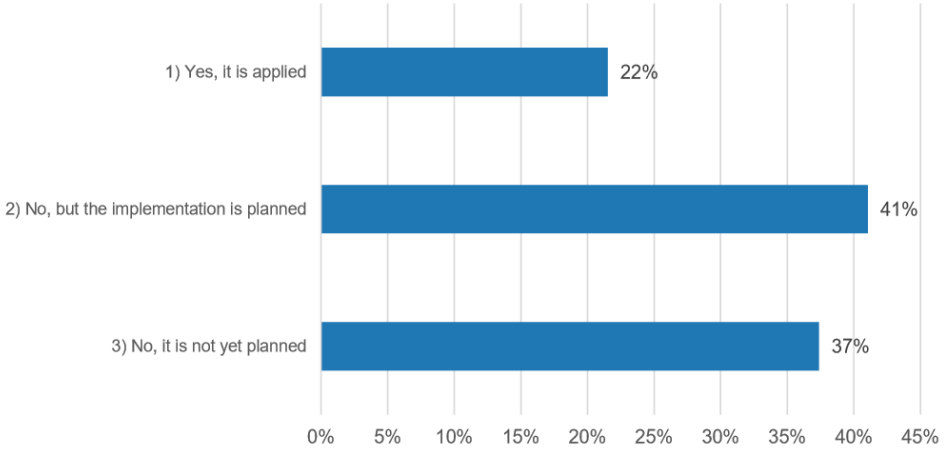
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.5 Does your public authority apply the once-only principle in its services?



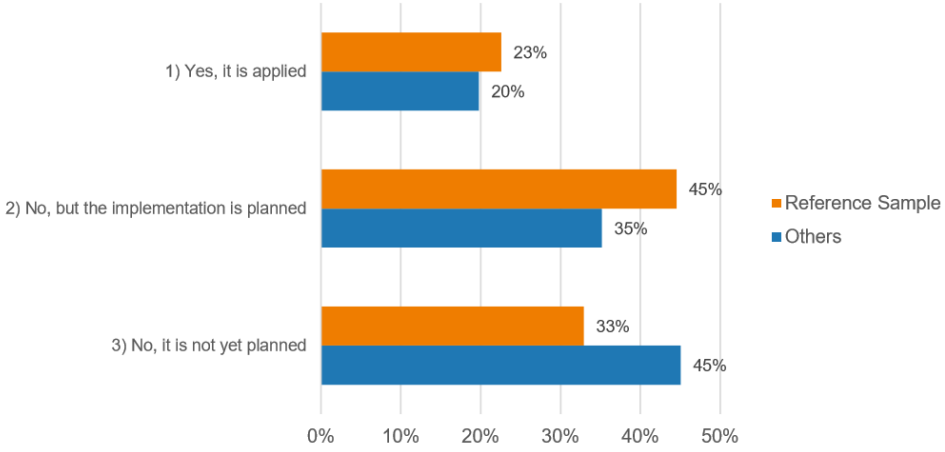
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Count

5.5 Does your public authority apply the once-only principle in its services?



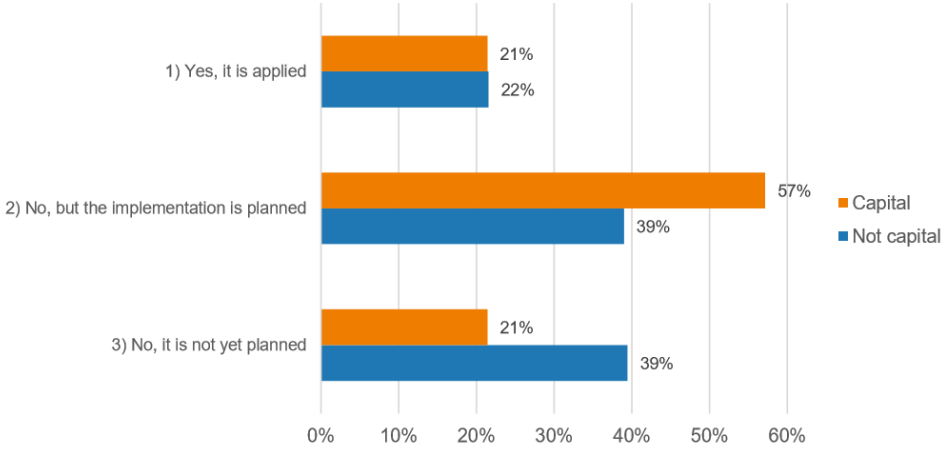
Question type	Data sample	Cluster	Value
Single choice	All Respondents	-	Percentage

5.5 Does your public authority apply the once-only principle in its services?

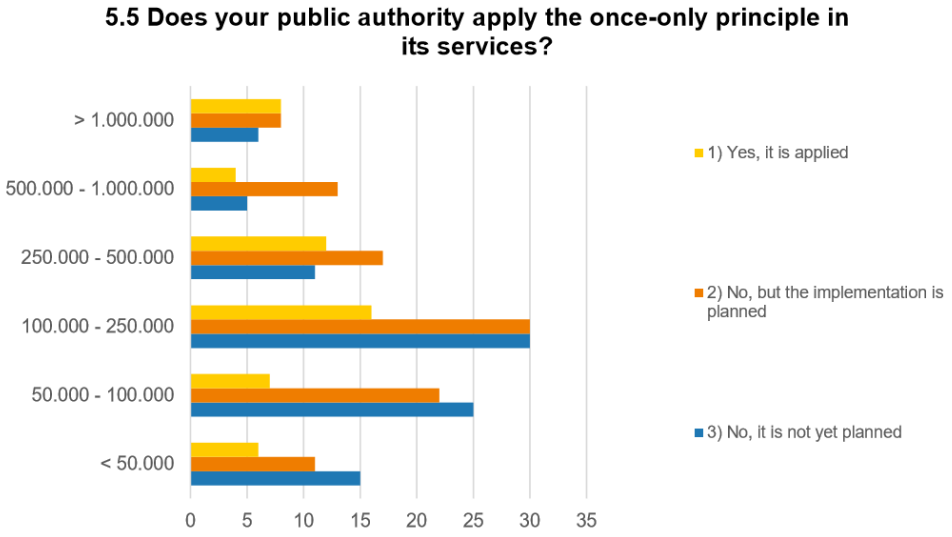


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage

5.5 Does your public authority apply the once-only principle in its services?

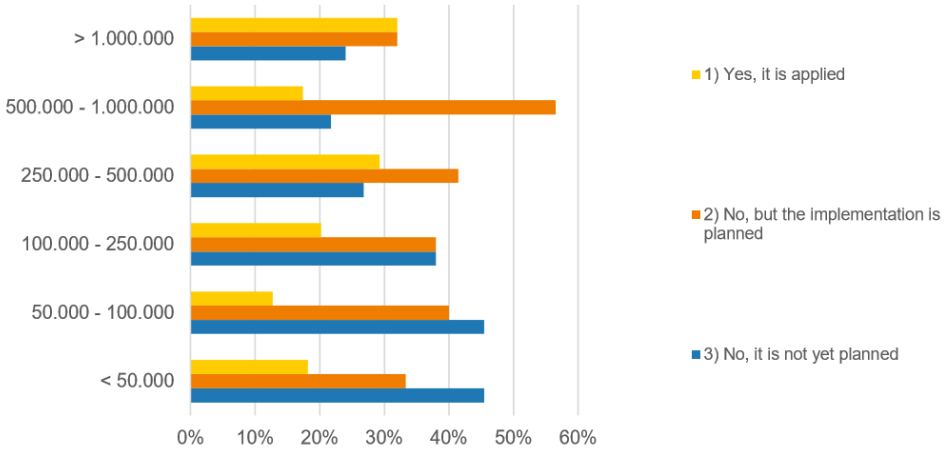


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage



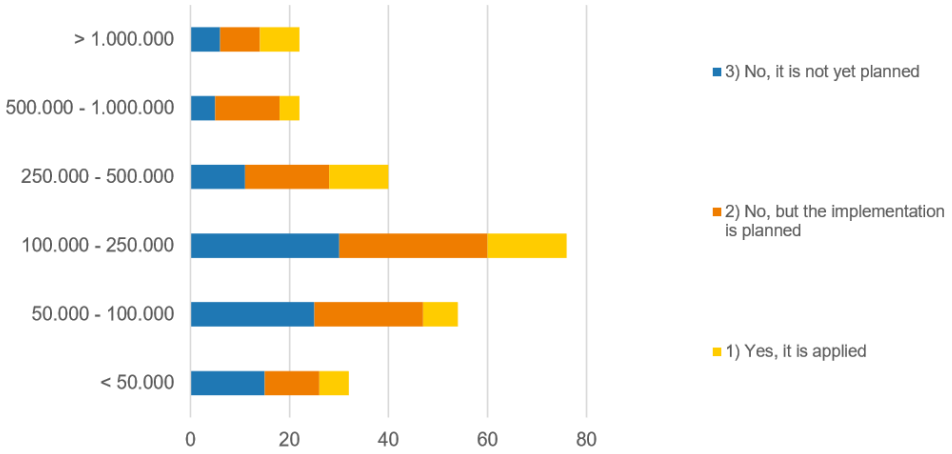
Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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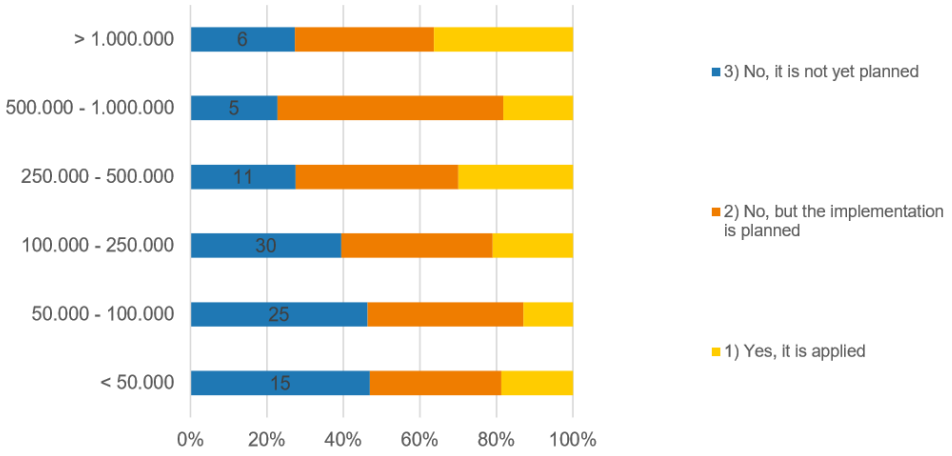

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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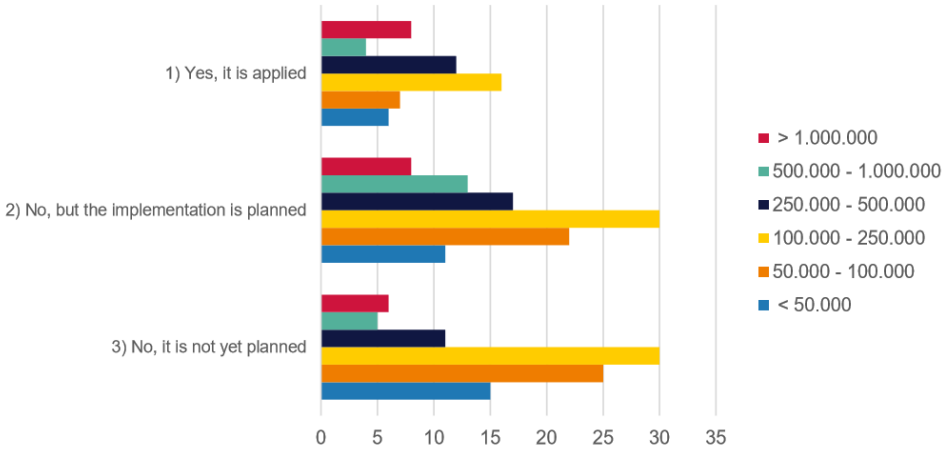

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Count

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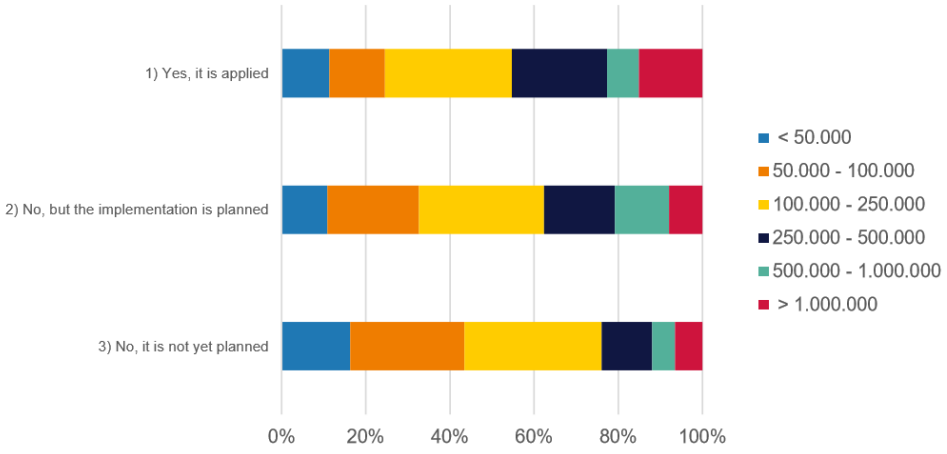

Question type	Data sample	Cluster	Value
Single choice	All Respondents	Population	Percentage

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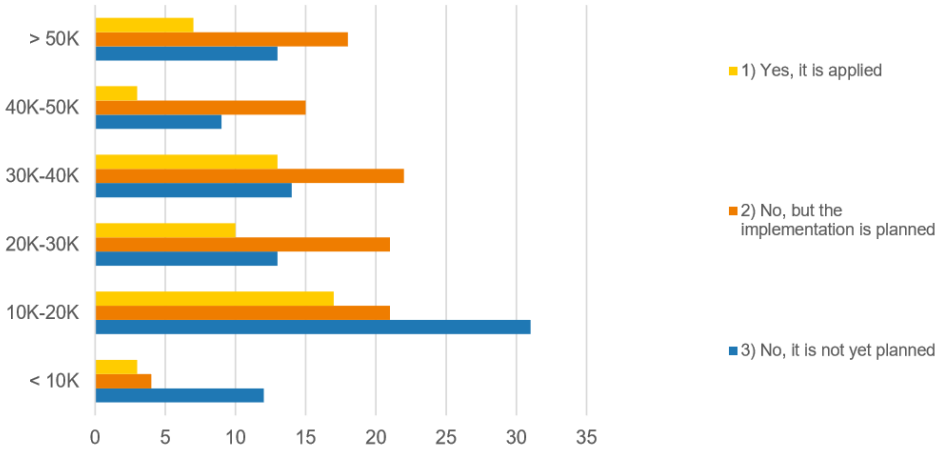
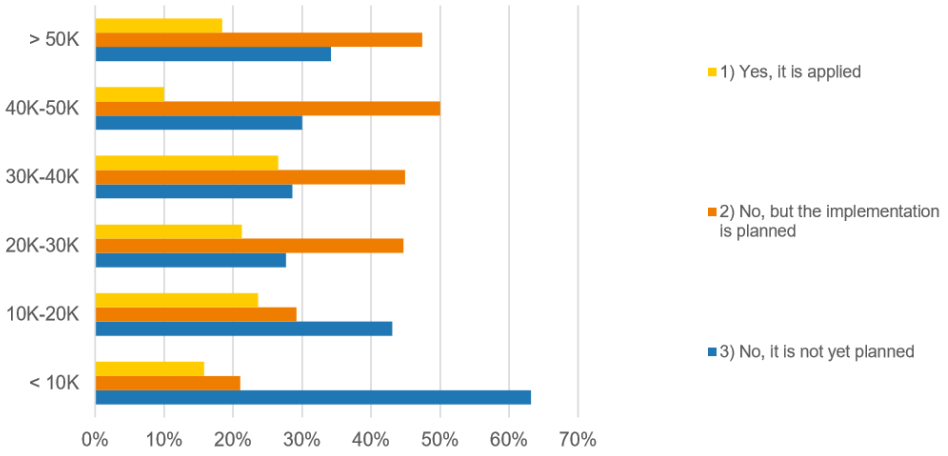


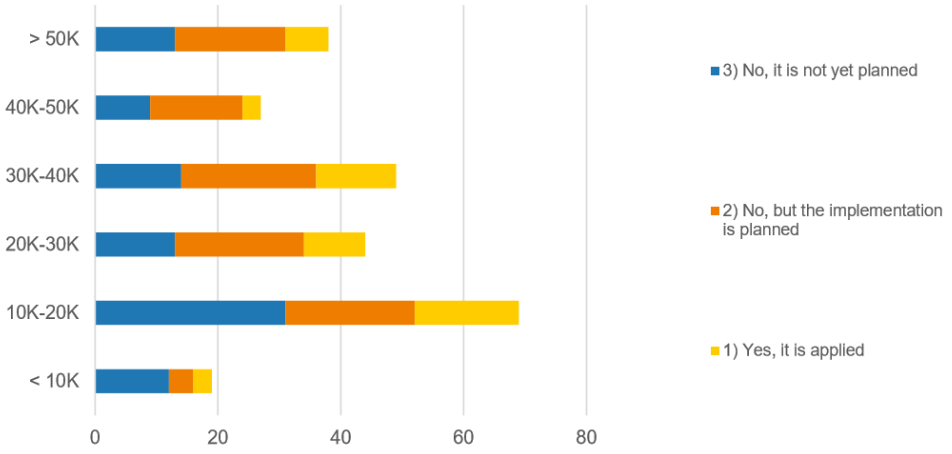
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

5.5 Does your public authority apply the once-only principle in its services?



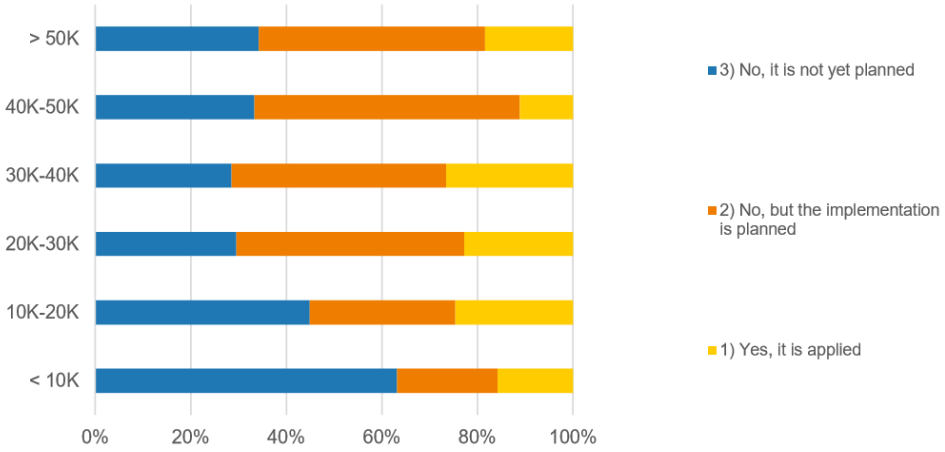
Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage

5.5 Does your public authority apply the once-only principle in its services?

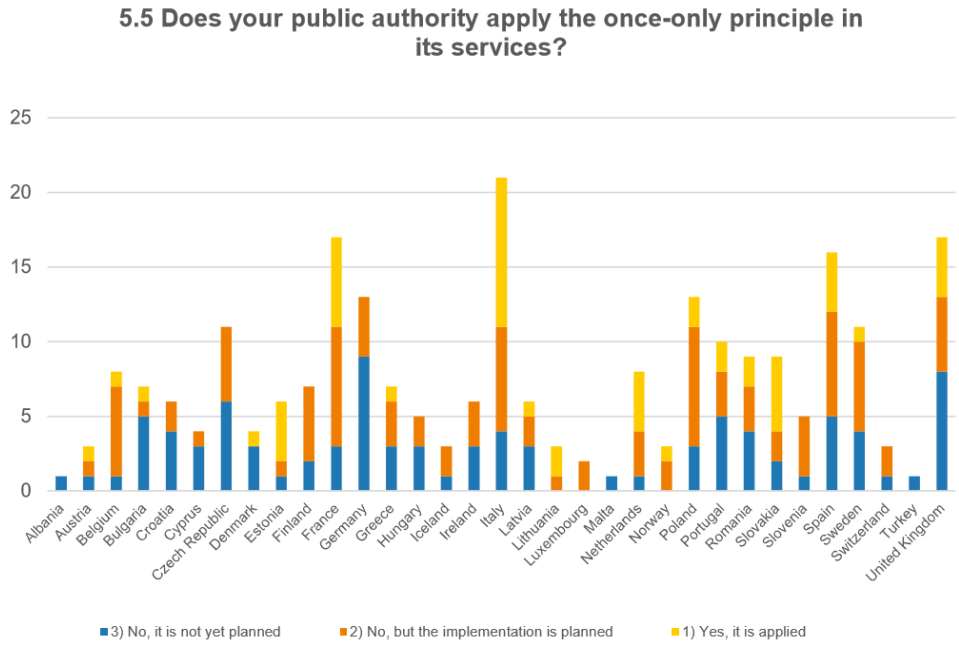


Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Count

5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Count

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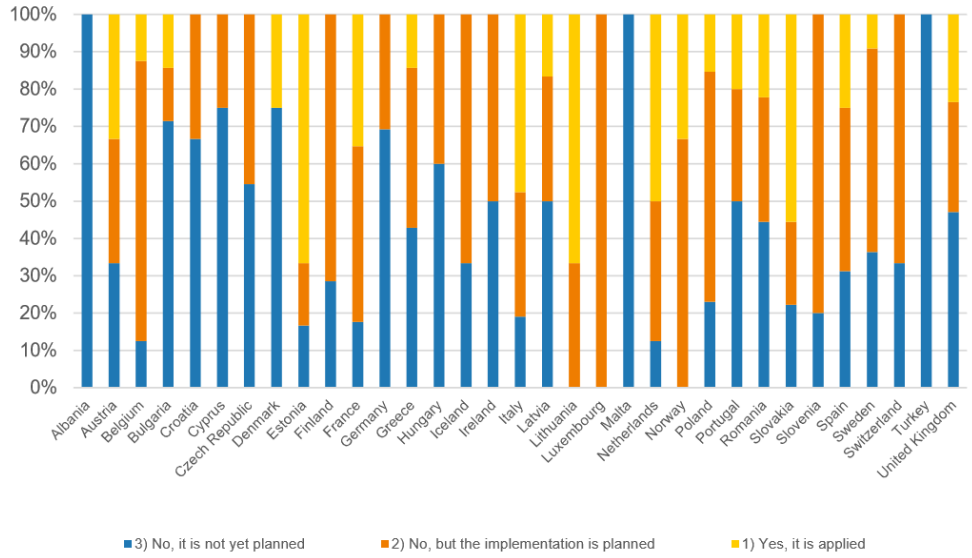


Question type	Data sample	Cluster	Value
Single choice	All Respondents	Country	Percentage

5.5 Does your public authority apply the once-only principle in its services?

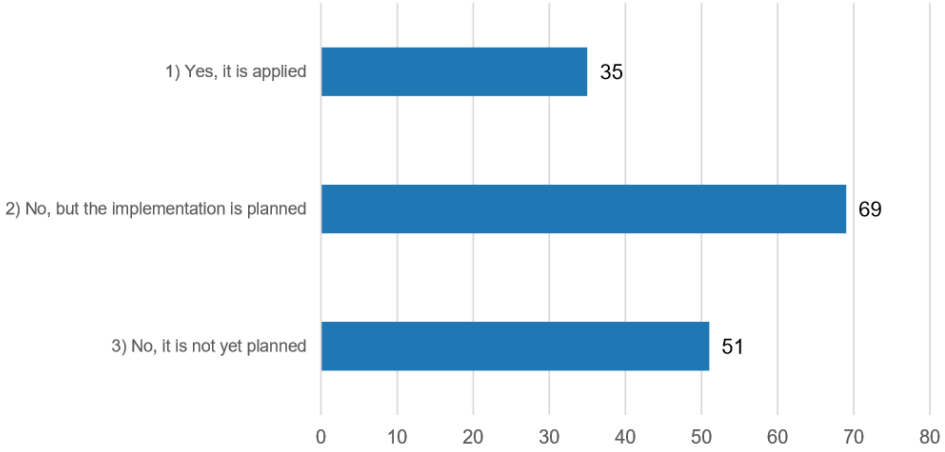
REFERENCE SAMPLE

Question type:	***Single choice***
Number of analysed questionnaires:	**155**
Number of cities respond to this specific question:	**155 (100%)**

Answer	*Count*	*Percentage**
1) Yes, it is applied	35	23%
2) No, but the implementation is planned	69	45%
3) No, it is not yet planned	51	33%

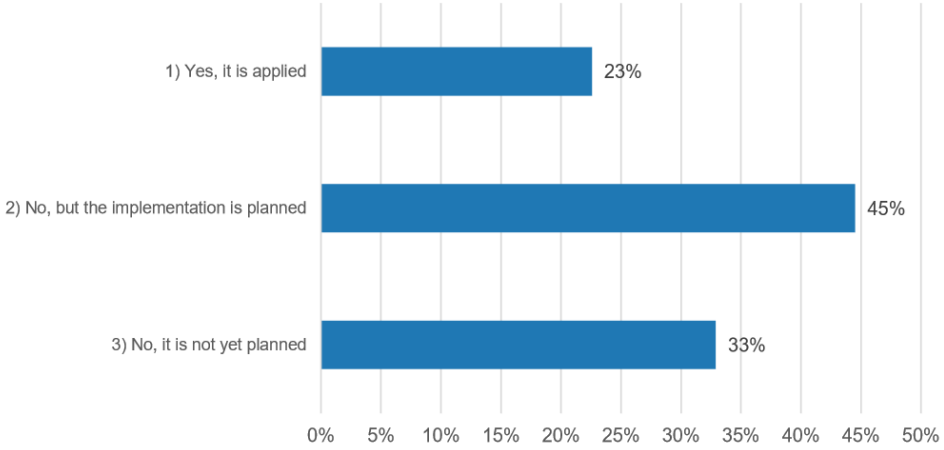
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.5 Does your public authority apply the once-only principle in its services?



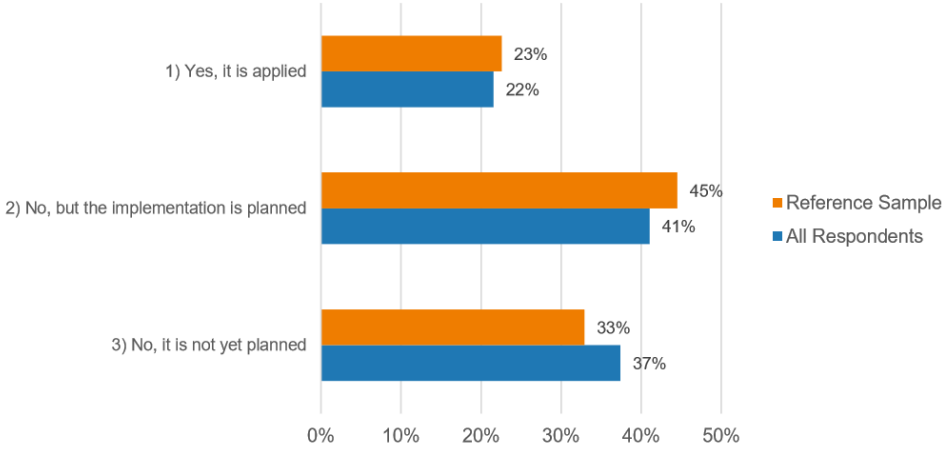
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Count

5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	-	Percentage

5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

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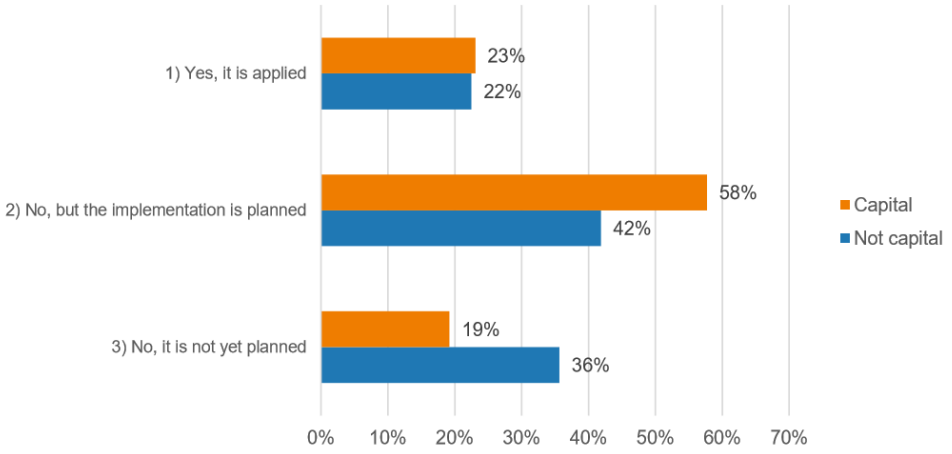
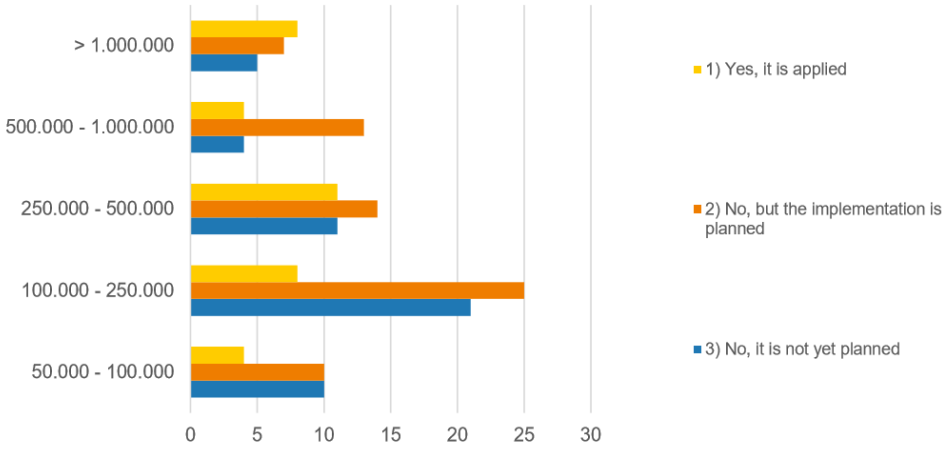
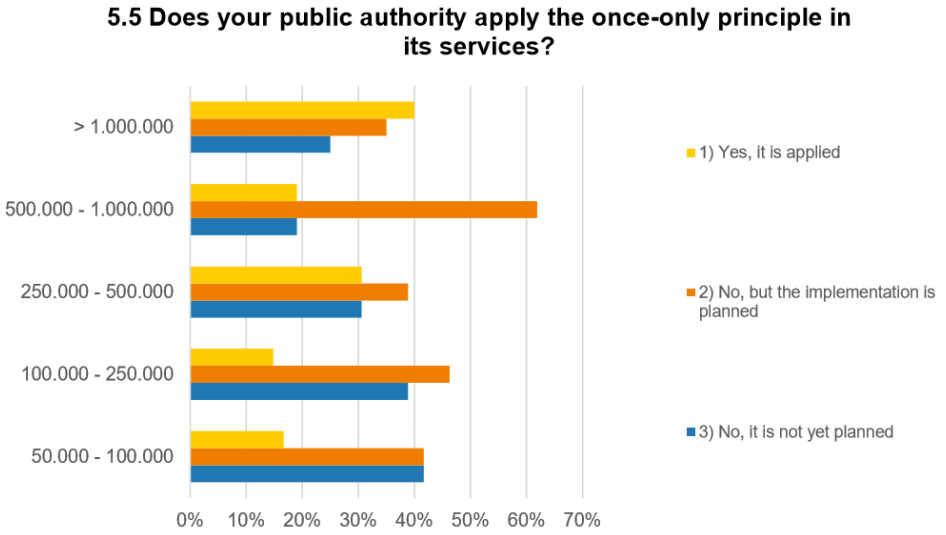


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

5.5 Does your public authority apply the once-only principle in its services?

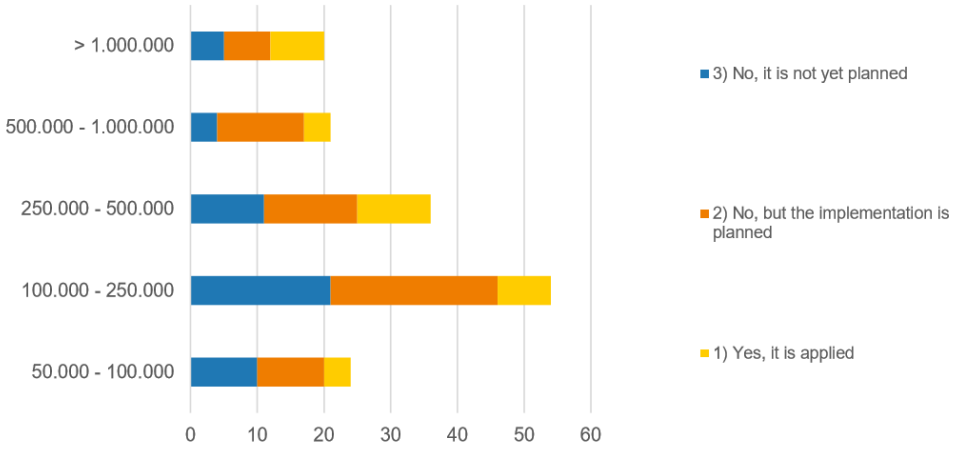


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

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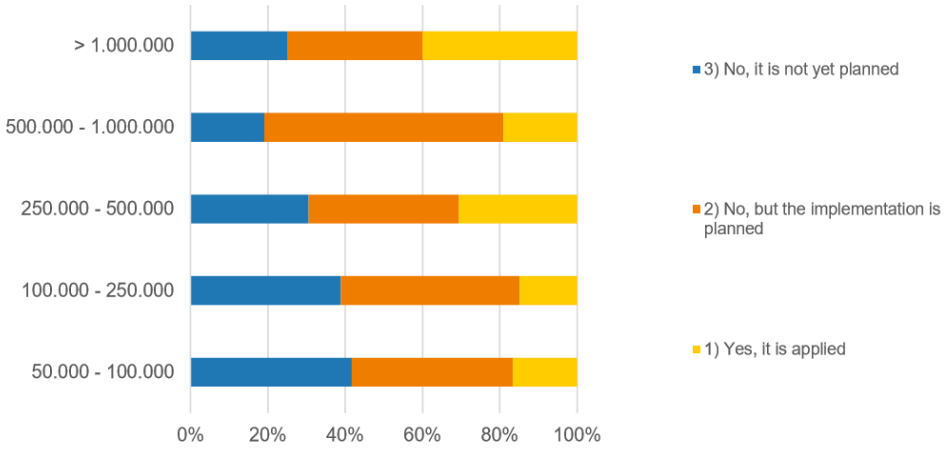
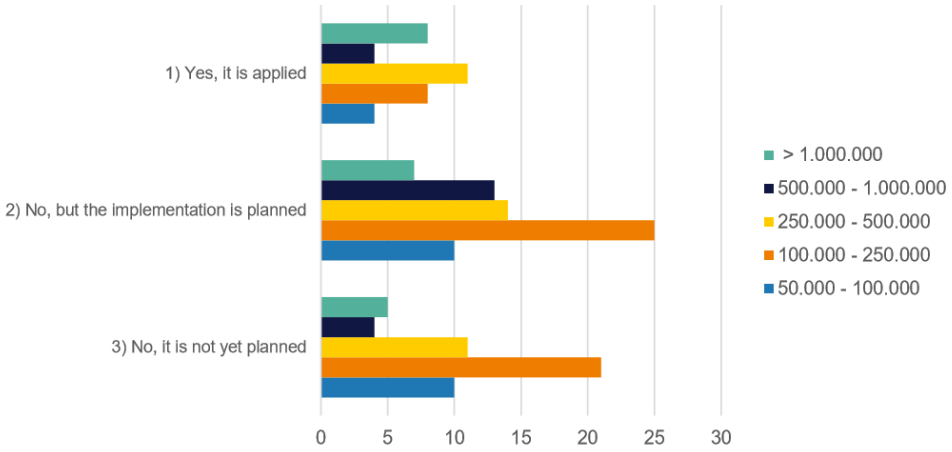
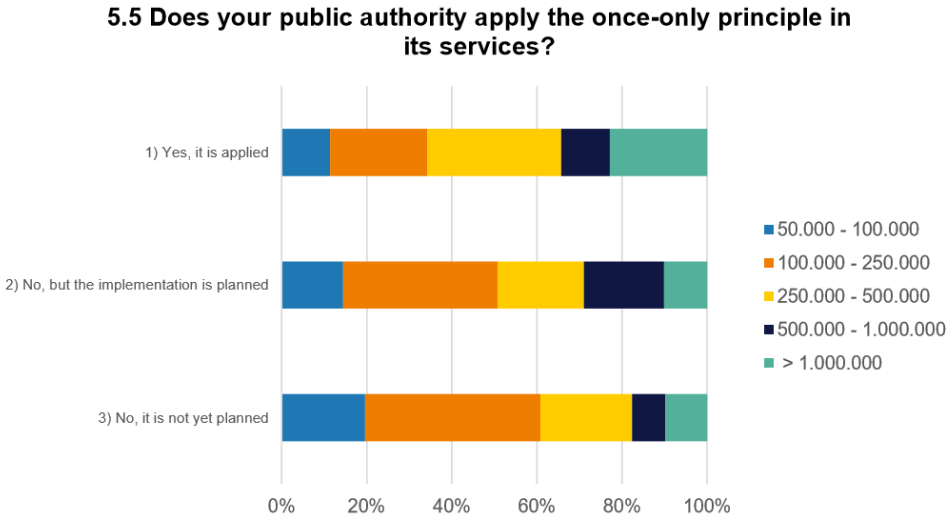


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

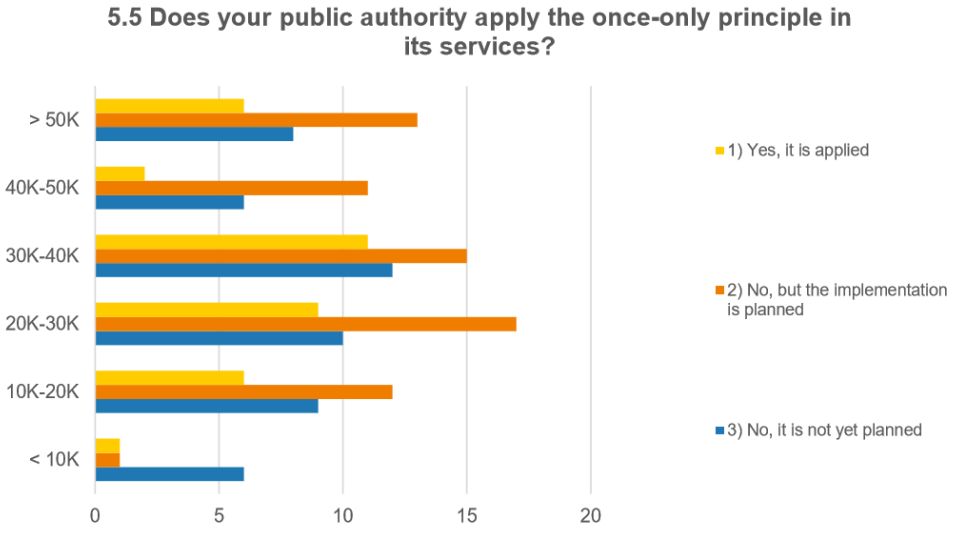
5.5 Does your public authority apply the once-only principle in its services?



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Count

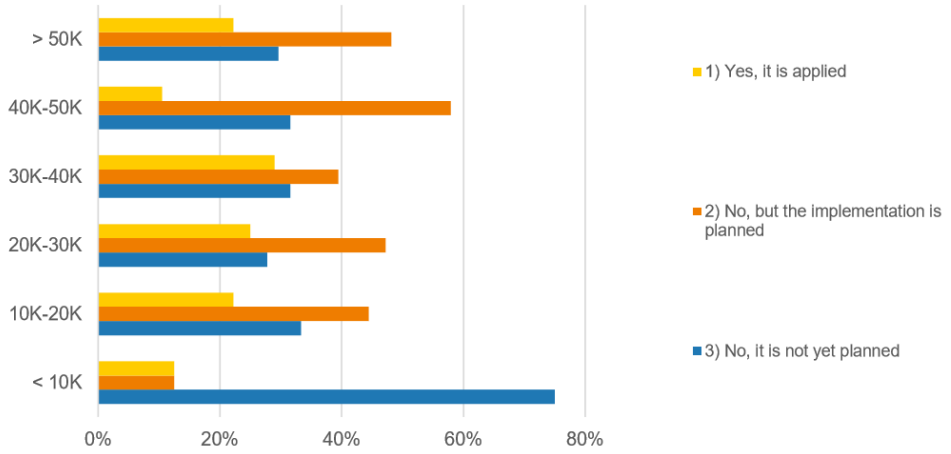


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Population	Percentage

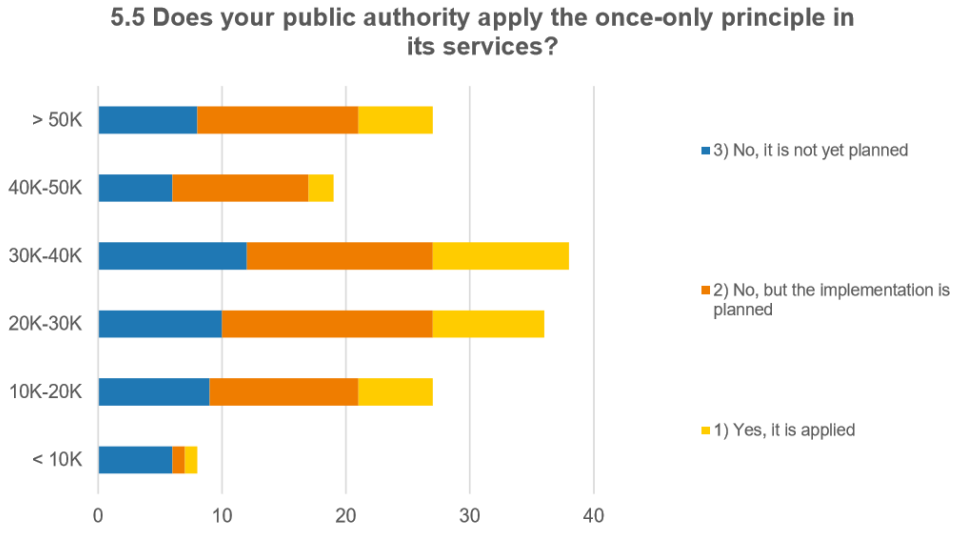


Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count

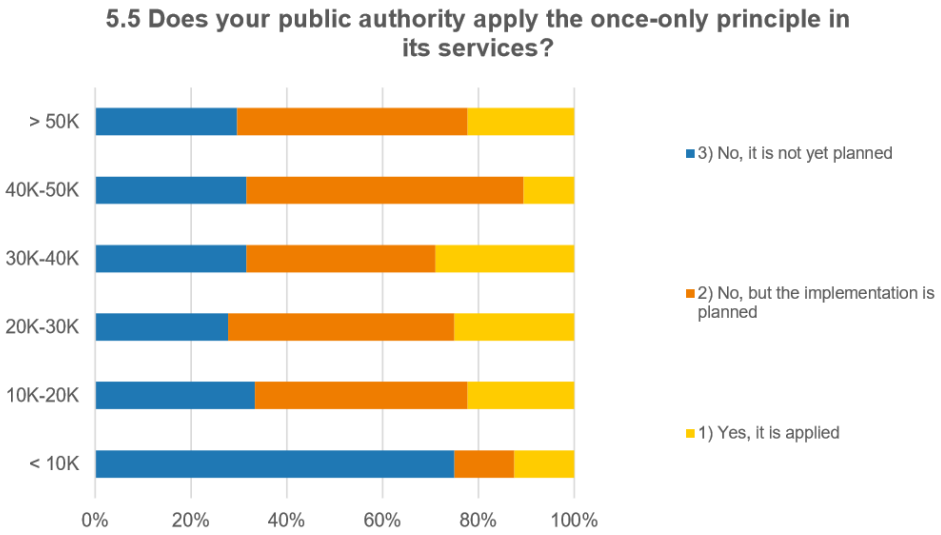
5.5 Does your public authority apply the once-only principle in its services?



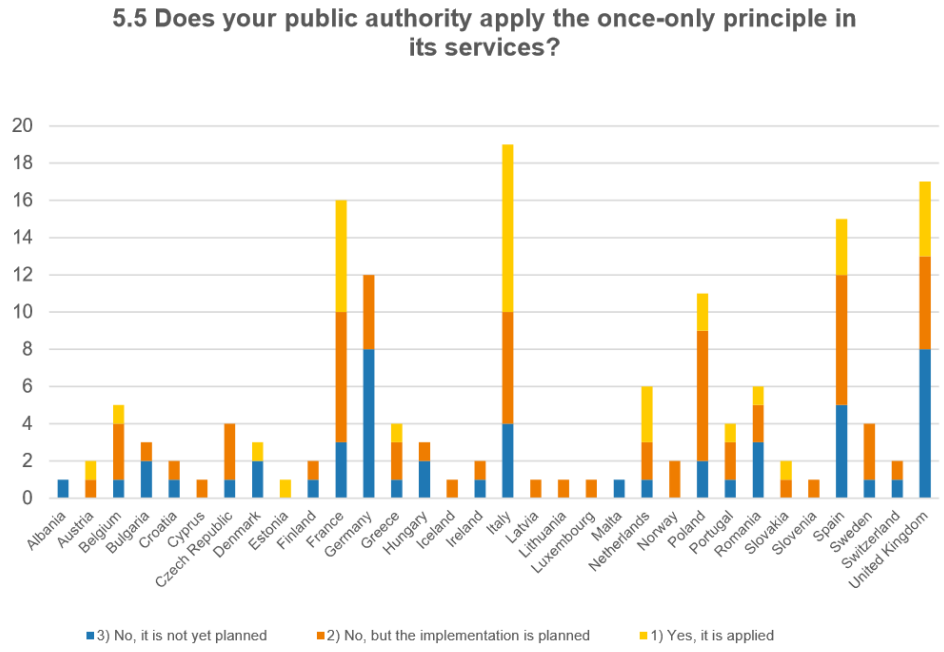
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



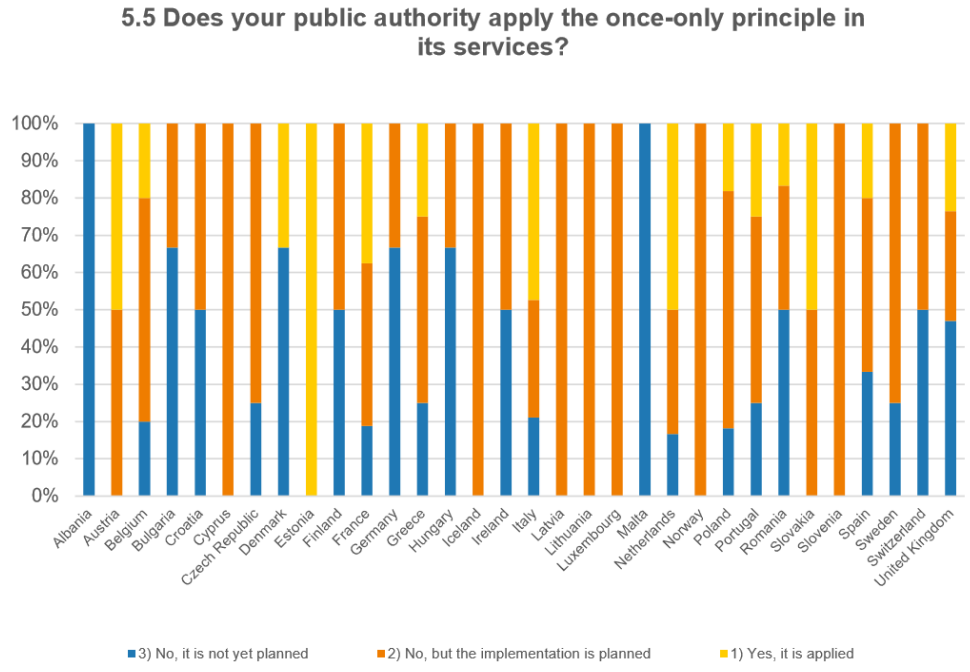
Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Count



Question type	Data sample	Cluster	Value
Single choice	Reference Sample	Country	Percentage

3.41 Q_5.6 What is the accessibility level of the data published through the data platform?

5.6 What is the accessibility level of the data published through the data platform?

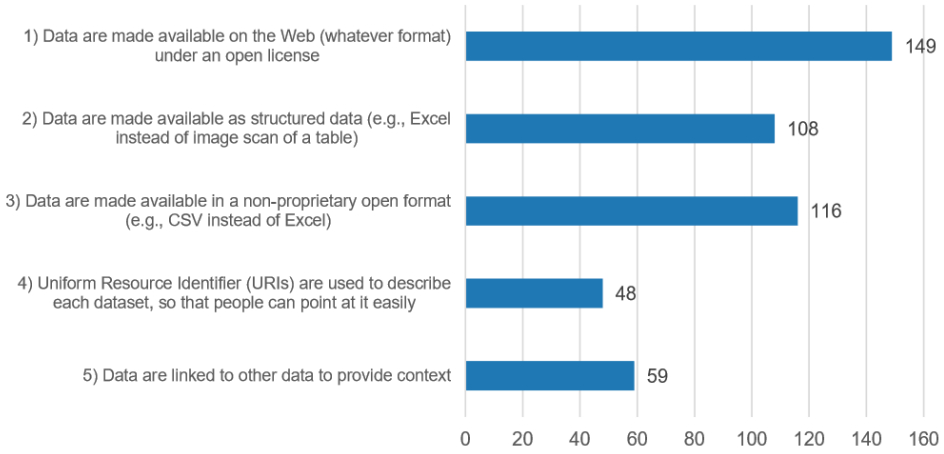
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) Data are made available on the Web (whatever format) under an open license	149	61%
2) Data are made available as structured data (e.g., Excel instead of image scan of a table)	108	44%
3) Data are made available in a non-proprietary open format (e.g., CSV instead of Excel)	116	47%
4) Uniform Resource Identifier (URIs) are used to describe each dataset, so that people can point at it easily	48	20%
5) Data are linked to other data to provide context	59	24%

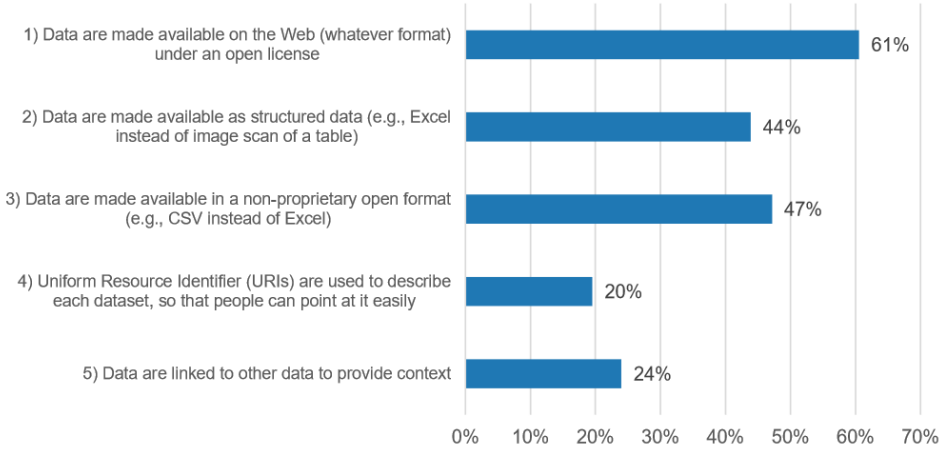
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.6 What is the accessibility level of the data published through the data platform?



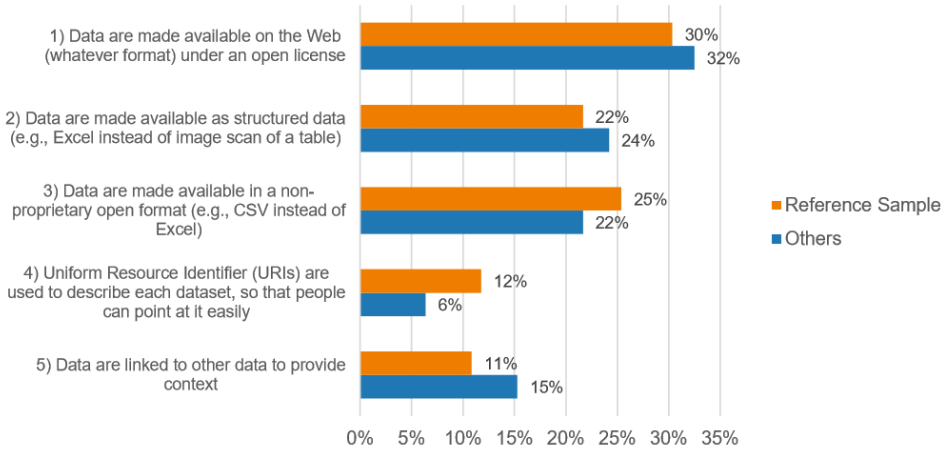
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.6 What is the accessibility level of the data published through the data platform?



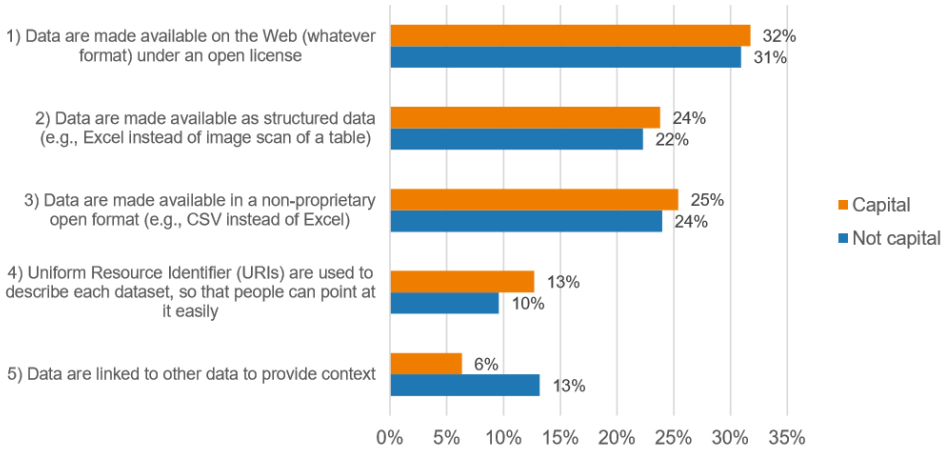
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

5.6 What is the accessibility level of the data published through the data platform?



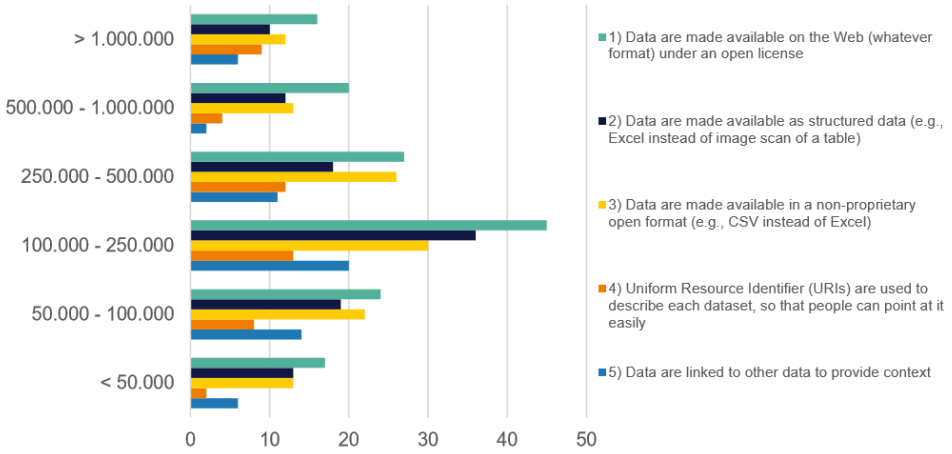
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

5.6 What is the accessibility level of the data published through the data platform?



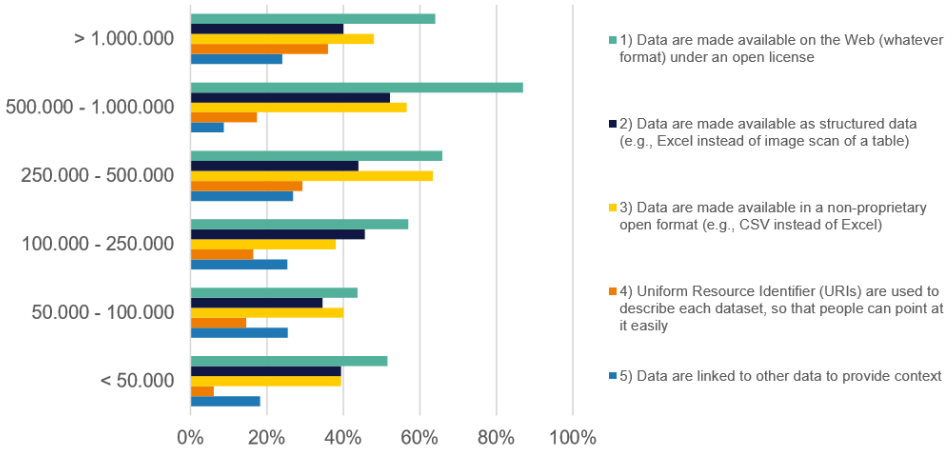
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

5.6 What is the accessibility level of the data published through the data platform?



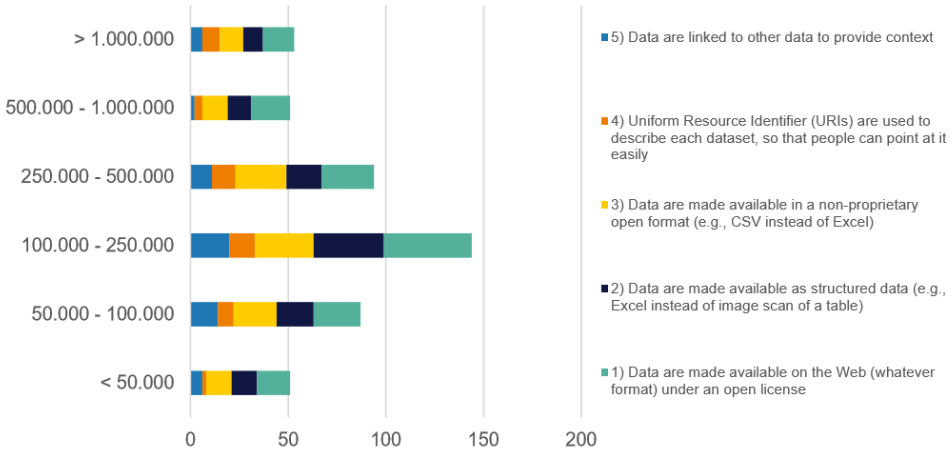
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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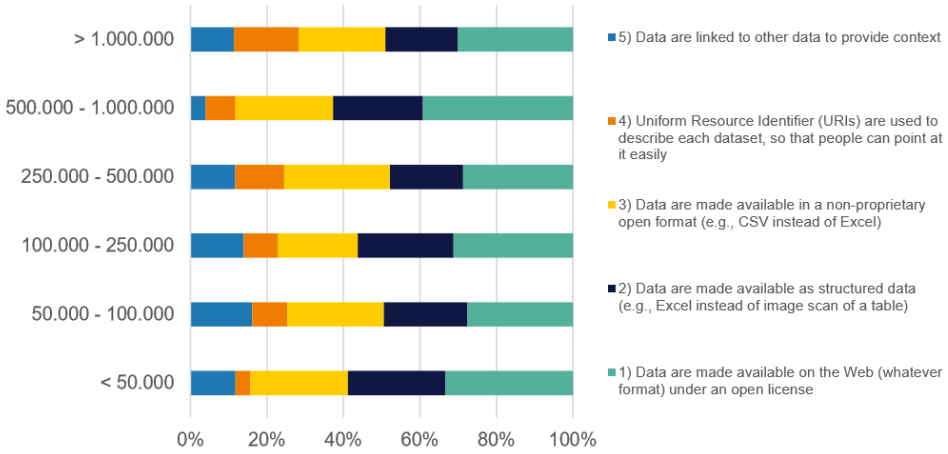
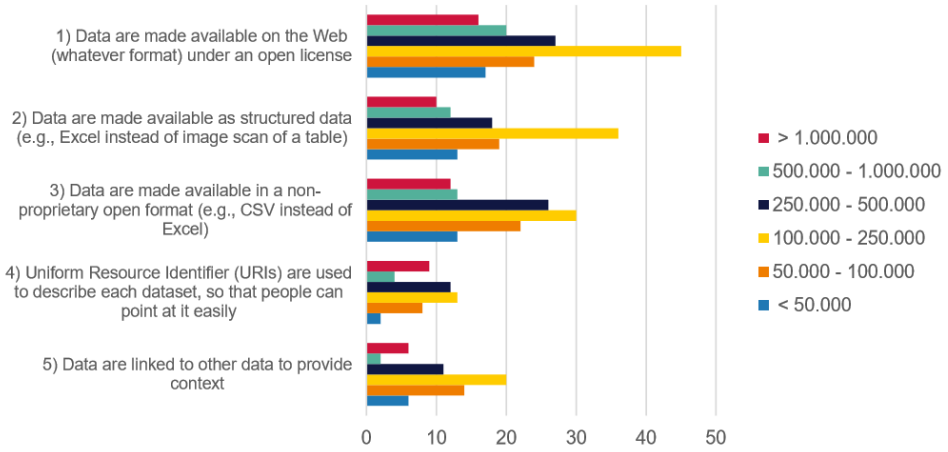


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
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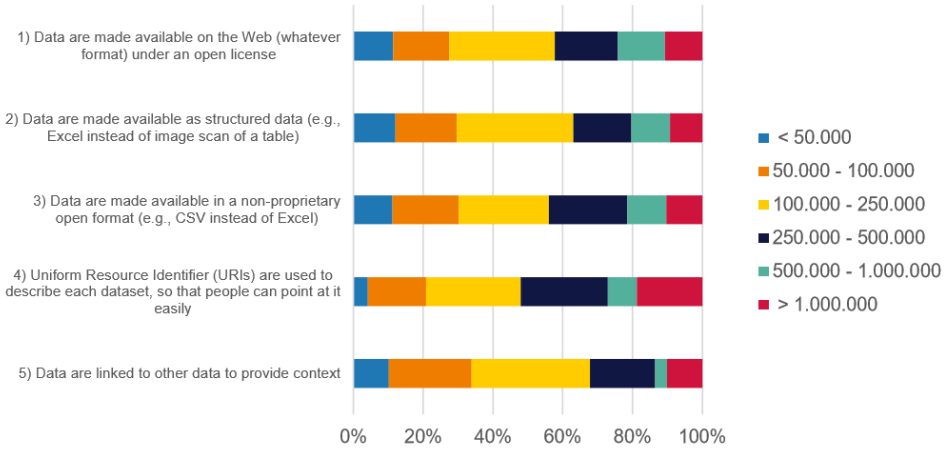

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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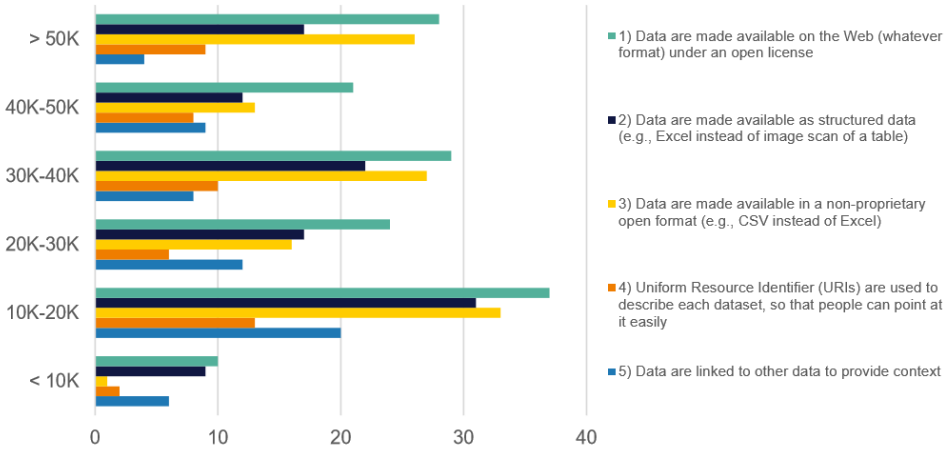
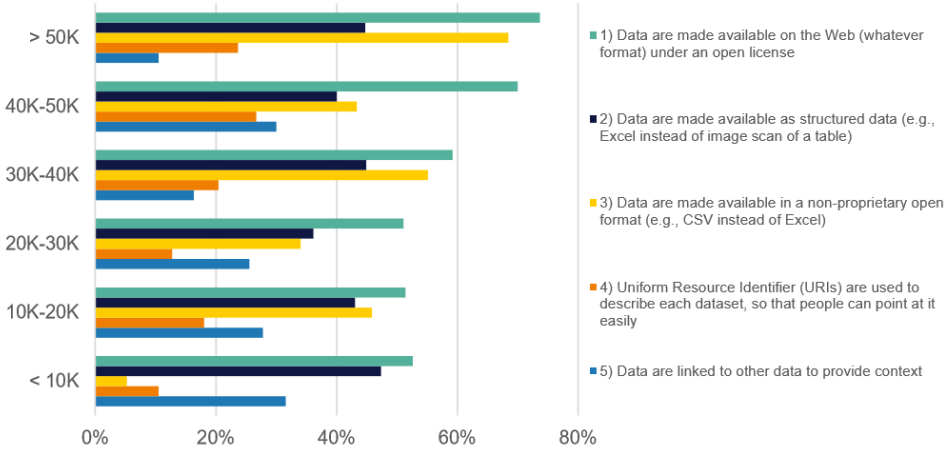


Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

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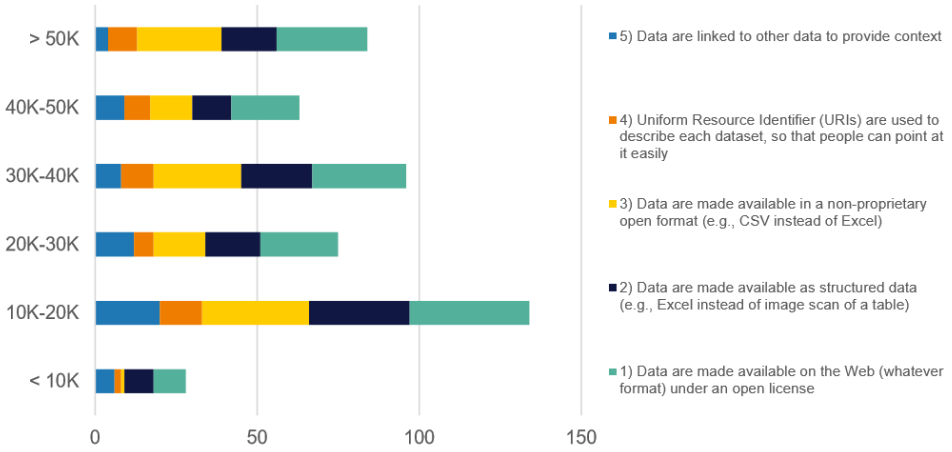

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Count

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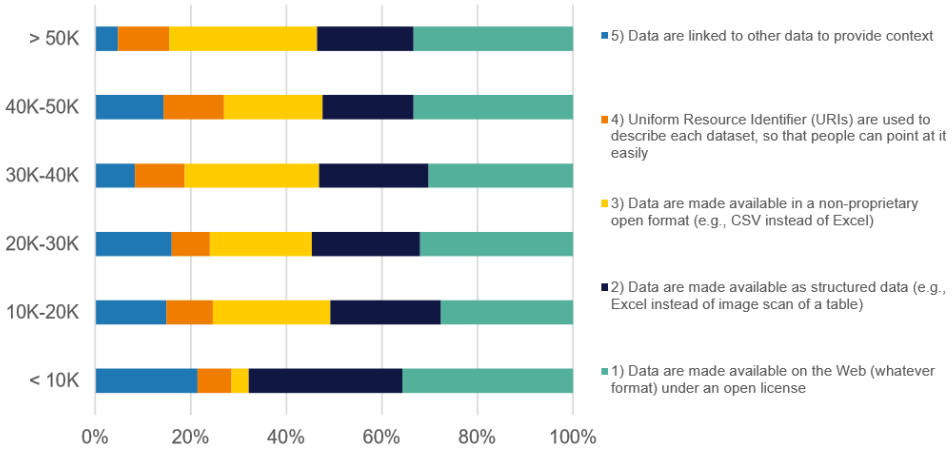
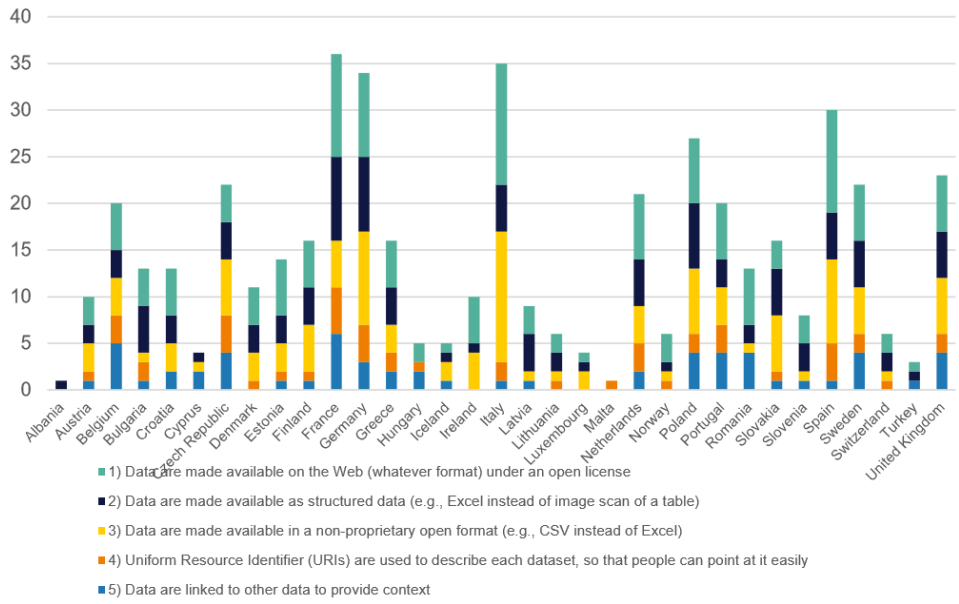


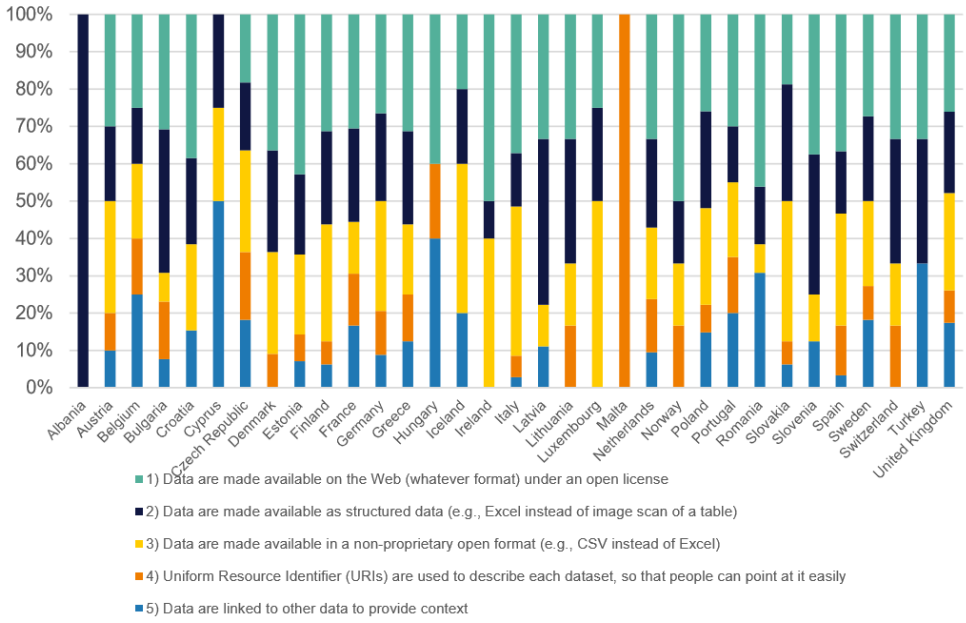
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	GDPPC	Percentage

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Count

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Country	Percentage

5.6 What is the accessibility level of the data published through the data platform?

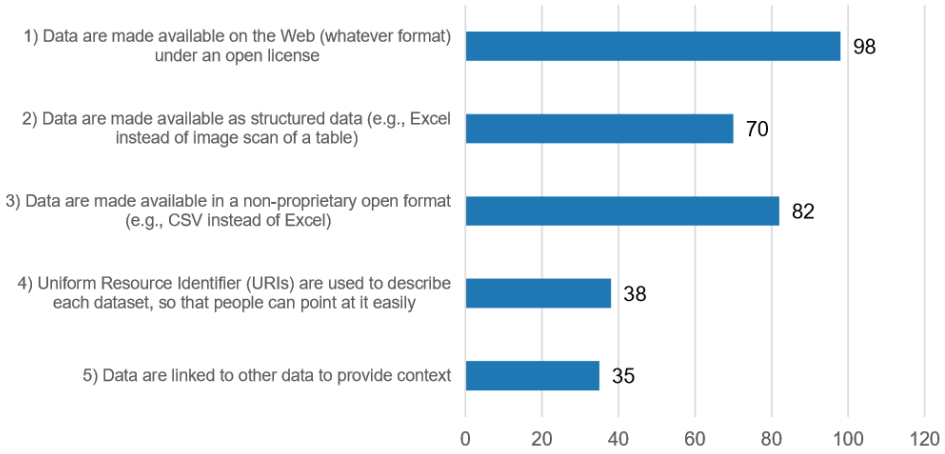
REFERENCE SAMPLE

Question type: ***Multiple choice***
Number of analysed questionnaires: **155**
Number of cities respond to this specific question: **155 (100%)**

Answer	*Count*	*Percentage**
1) Data are made available on the Web (whatever format) under an open license	98	63%
2) Data are made available as structured data (e.g., Excel instead of image scan of a table)	70	45%
3) Data are made available in a non-proprietary open format (e.g., CSV instead of Excel)	82	53%
4) Uniform Resource Identifier (URIs) are used to describe each dataset, so that people can point at it easily	38	25%
5) Data are linked to other data to provide context	35	23%

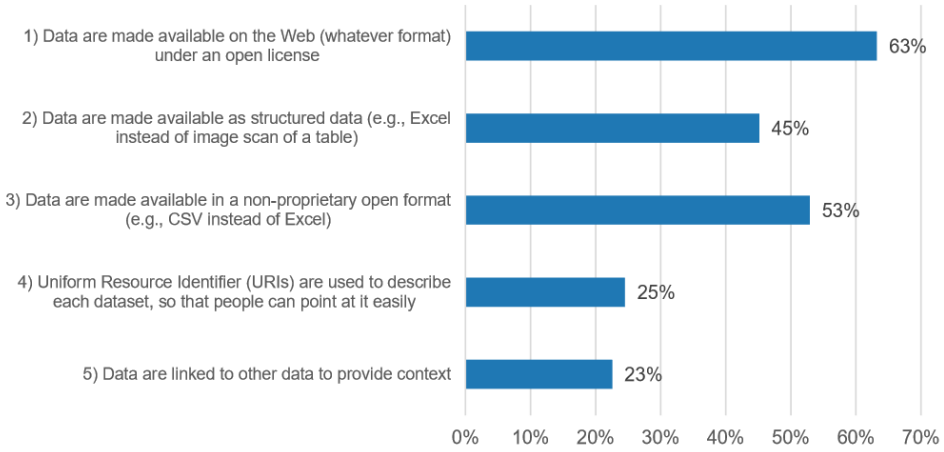
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.6 What is the accessibility level of the data published through the data platform?



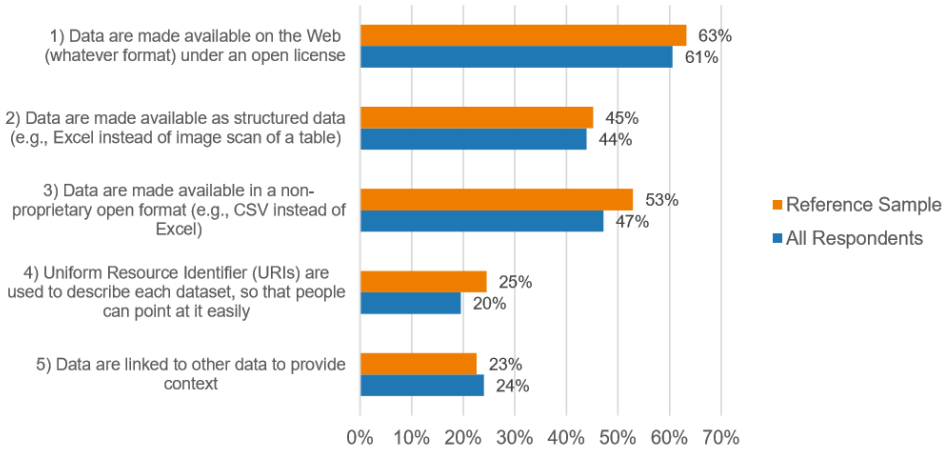
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Count

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	-	Percentage

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Reference Sample	Percentage

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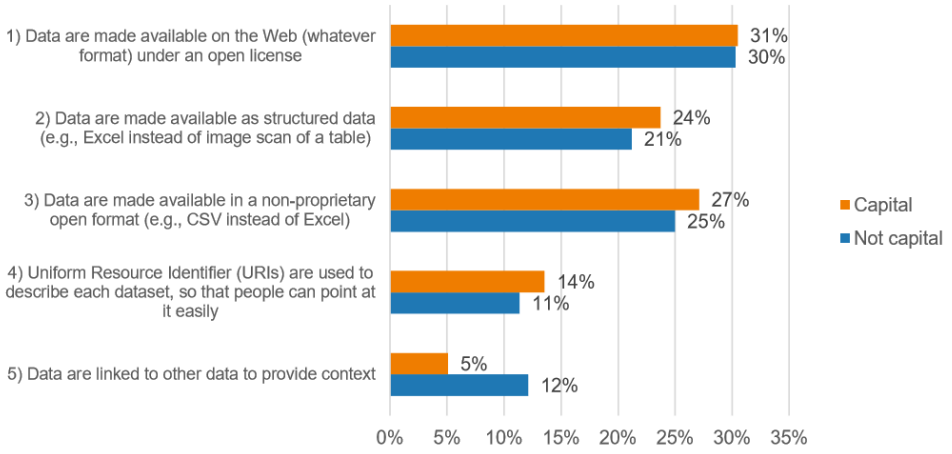
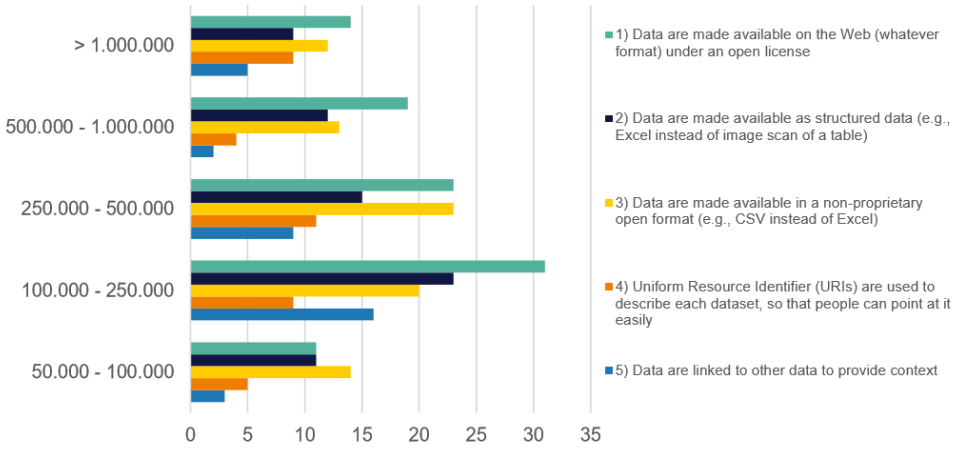


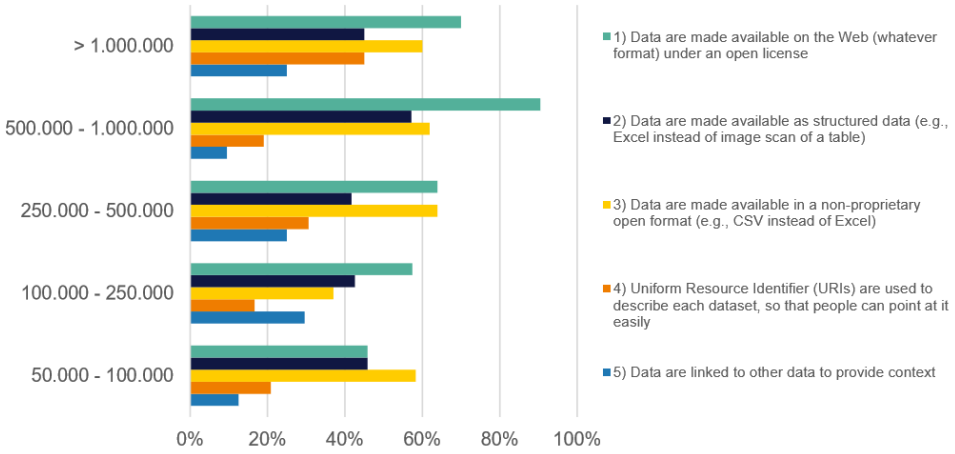
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Capital cities	Percentage

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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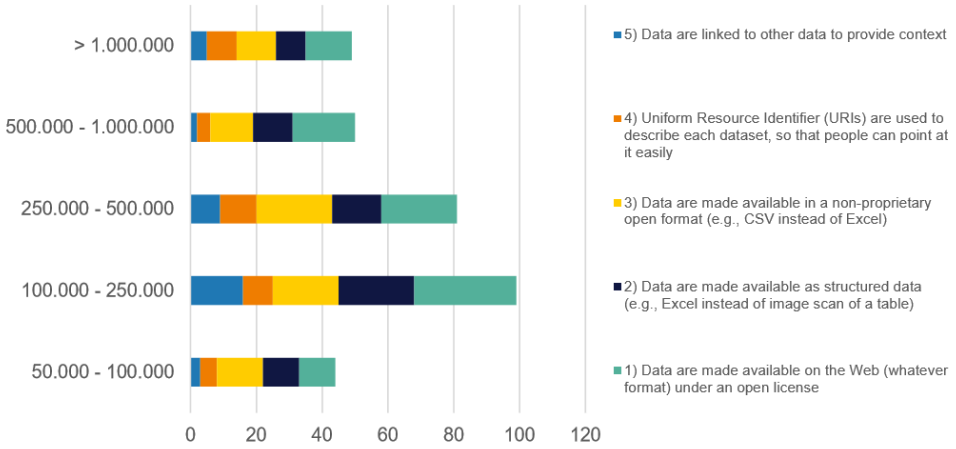

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

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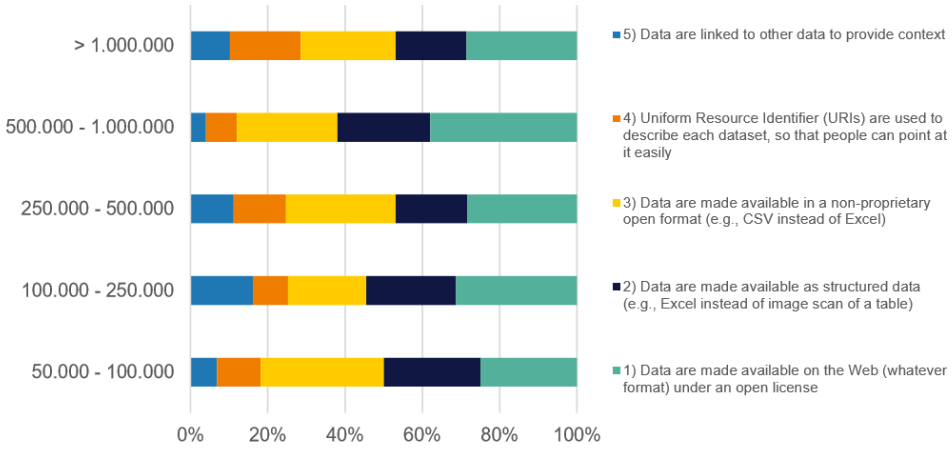

Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

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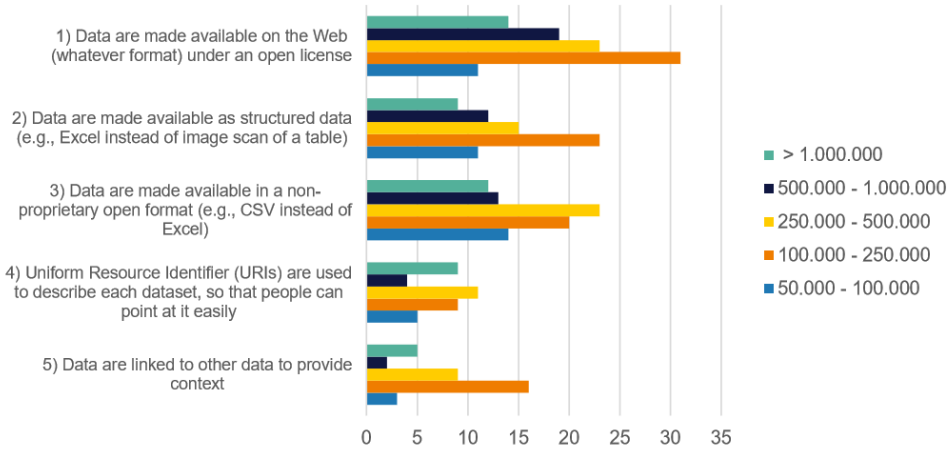
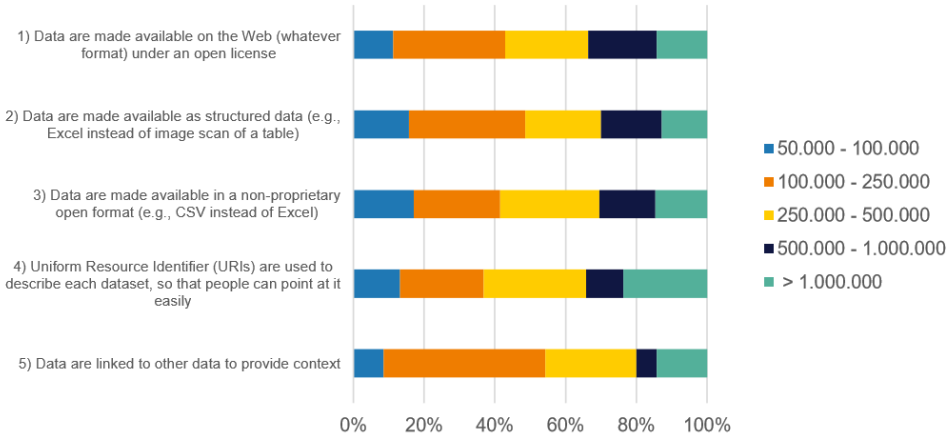
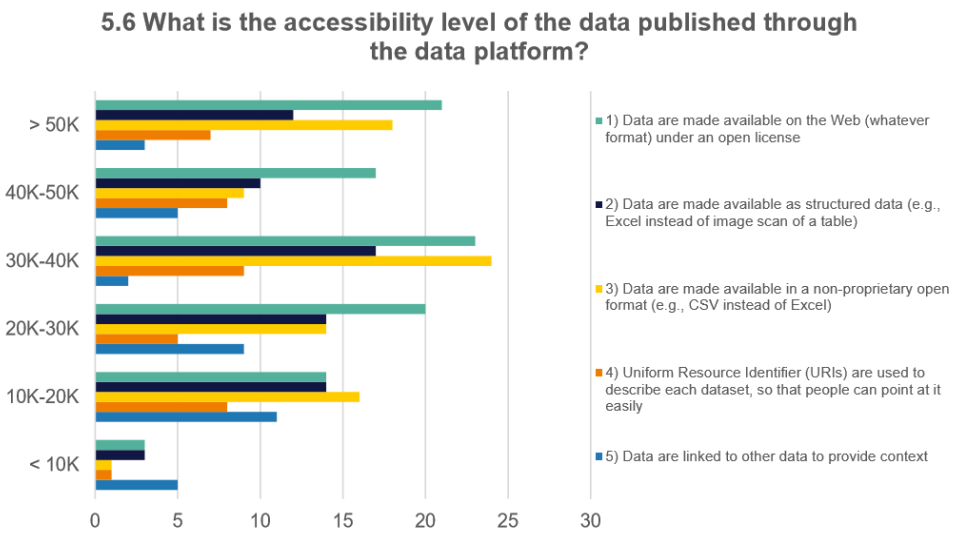


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Count

5.6 What is the accessibility level of the data published through the data platform?

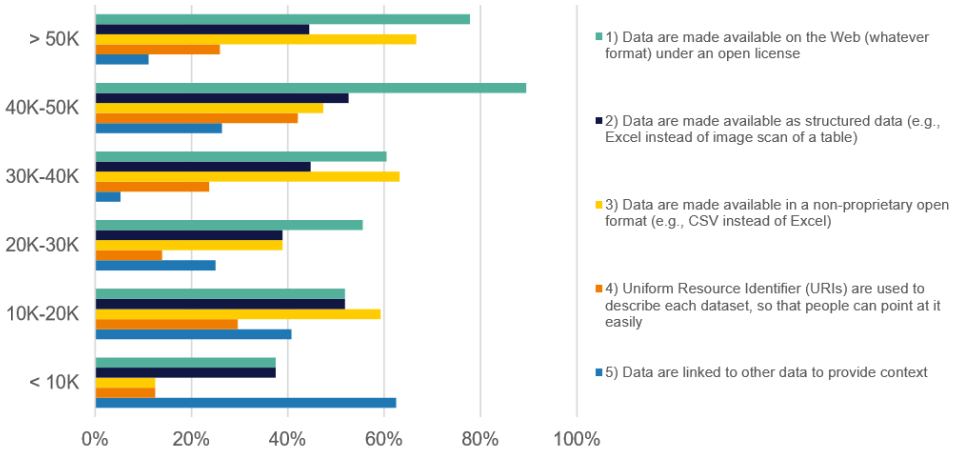


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Population	Percentage

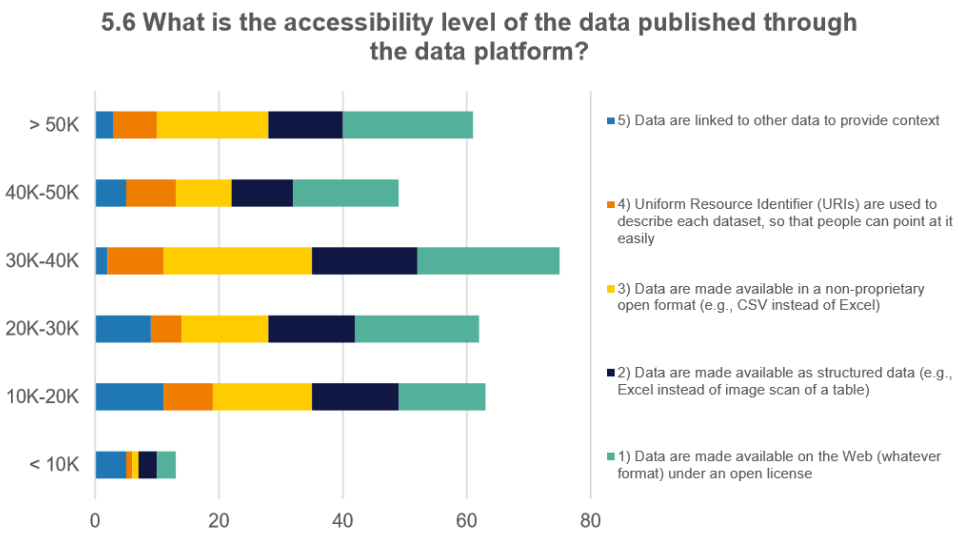


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

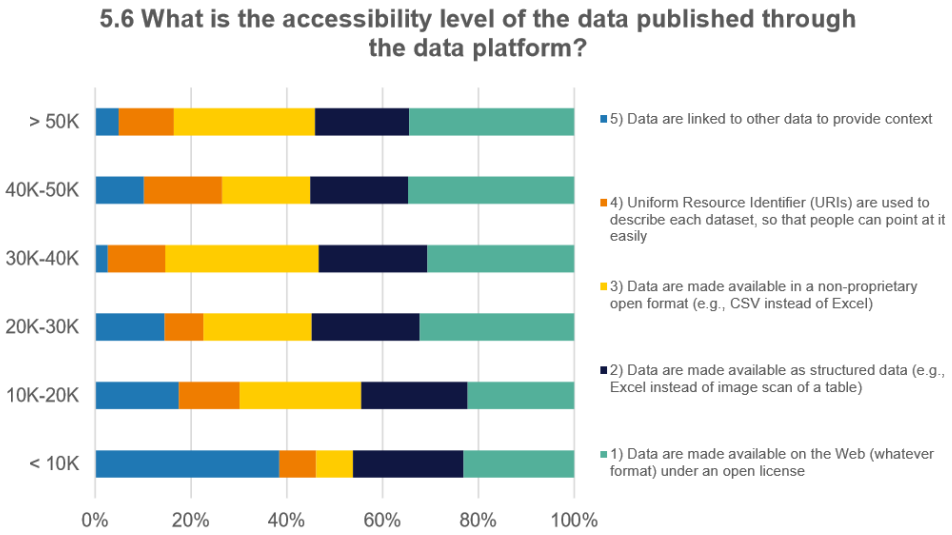
5.6 What is the accessibility level of the data published through the data platform?



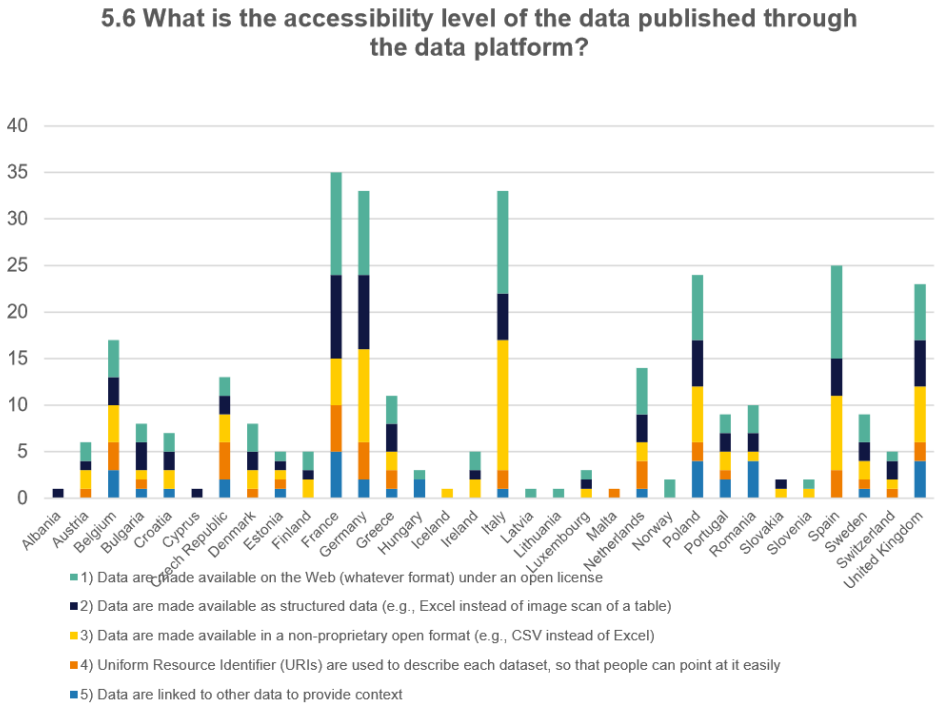
Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Count

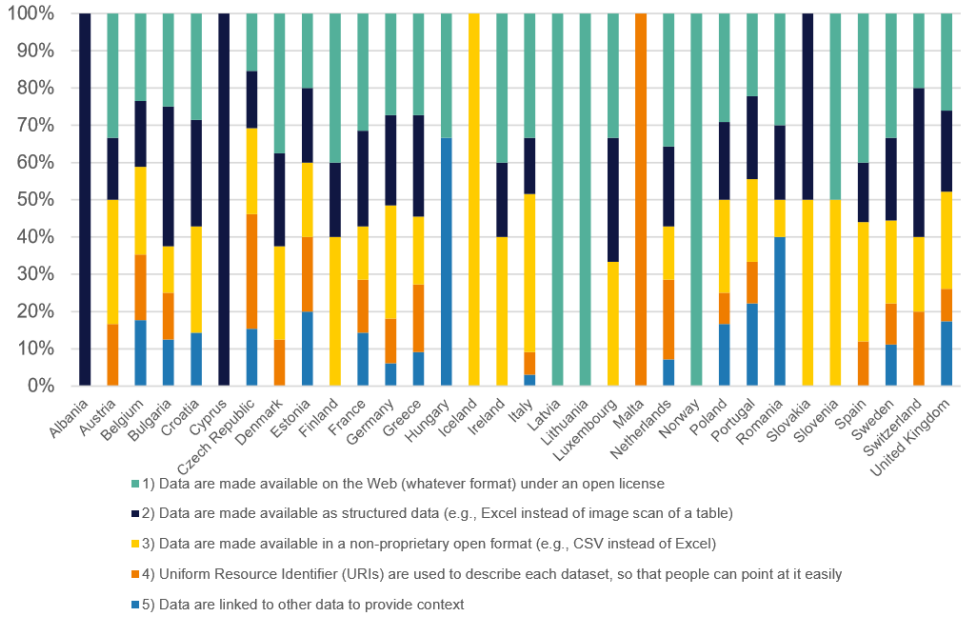


Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	GDPPC	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Count

5.6 What is the accessibility level of the data published through the data platform?



Question type	Data sample	Cluster	Value
Multiple choice	Reference Sample	Country	Percentage

3.42 Q_5.7 What licenses are used to publish data openly on your data platform?

5.7 What licenses are used to publish data openly on your data platform?

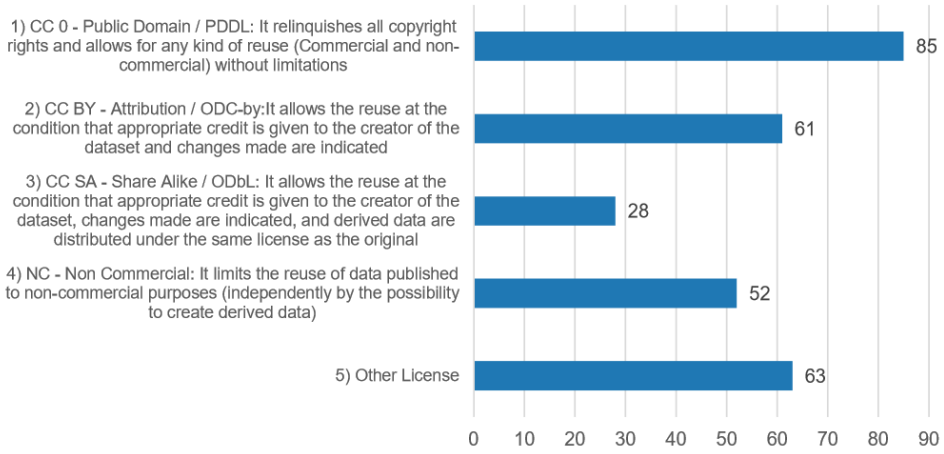
ALL RESPONDENTS

Question type: ***Multiple choice***
Number of analysed questionnaires: **246**
Number of cities respond to this specific question: **246 (100%)**

Answer	*Count*	*Percentage**
1) CC 0 - Public Domain / PDDL: It relinquishes all copyright rights and allows for any kind of reuse (Commercial and non-commercial) without limitations	85	35%
2) CC BY - Attribution / ODC-by:It allows the reuse at the condition that appropriate credit is given to the creator of the dataset and changes made are indicated	61	25%
3) CC SA - Share Alike / ODbL: It allows the reuse at the condition that appropriate credit is given to the creator of the dataset, changes made are indicated, and derived data are distributed under the same license as the original	28	11%
4) NC - Non Commercial: It limits the reuse of data published to non-commercial purposes (independently by the possibility to create derived data)	52	21%
5) Other License	63	26%

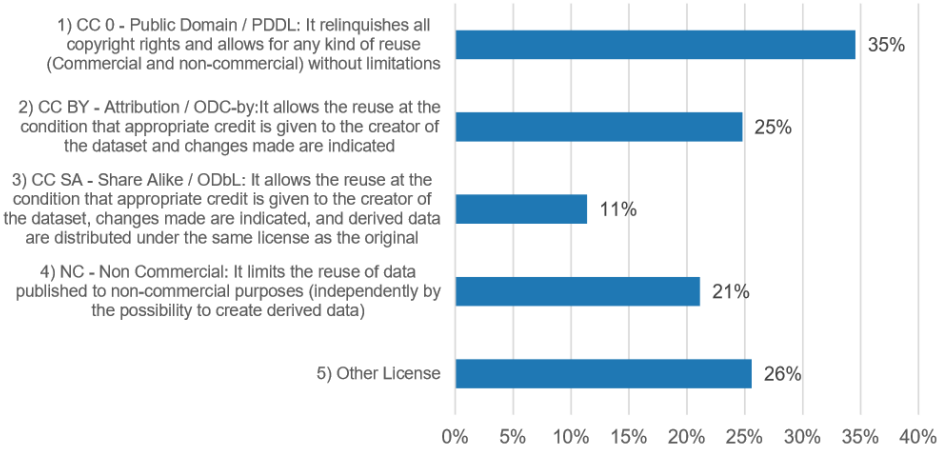
** The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.*

5.7 What licenses are used to publish data openly on your data platform?



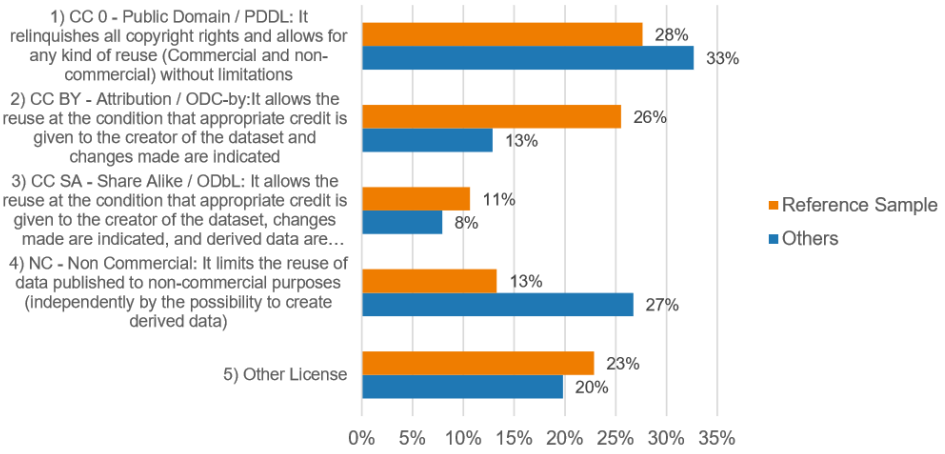
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count

5.7 What licenses are used to publish data openly on your data platform?



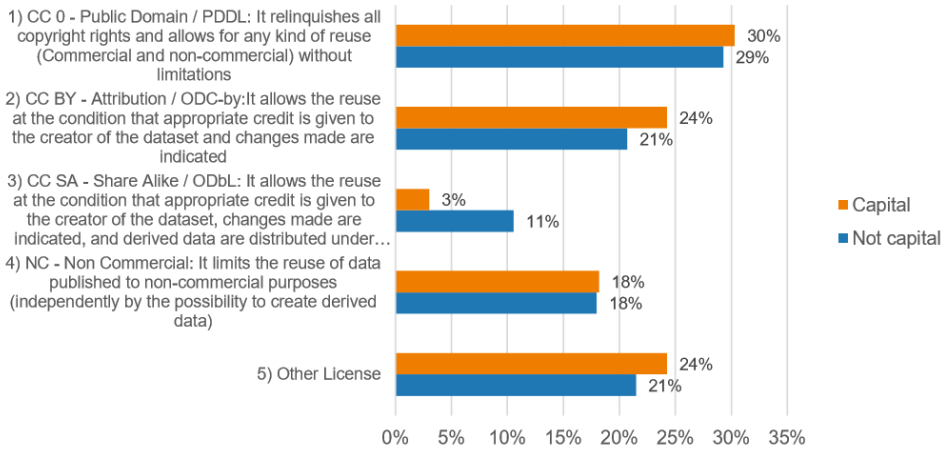
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage

5.7 What licenses are used to publish data openly on your data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage

5.7 What licenses are used to publish data openly on your data platform?



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Capital cities	Percentage

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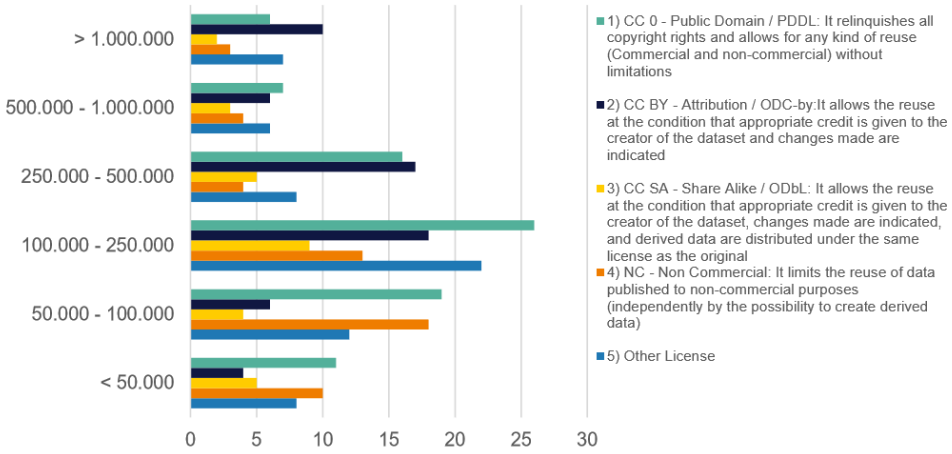

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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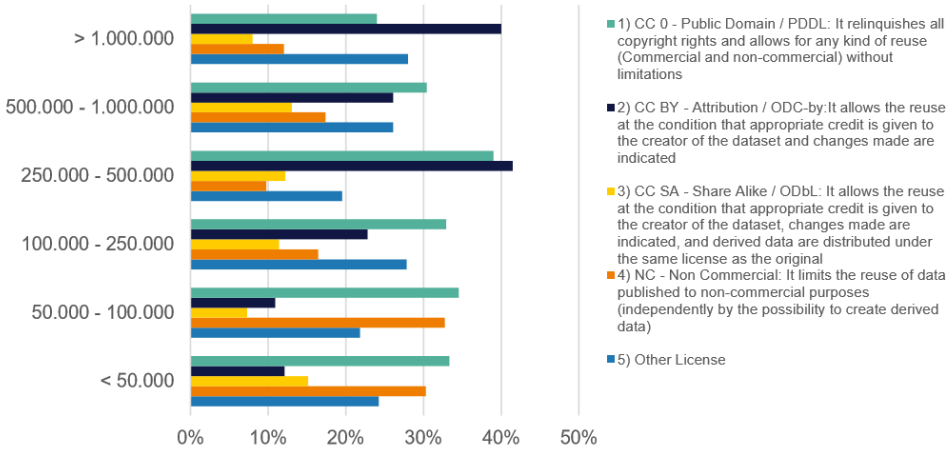

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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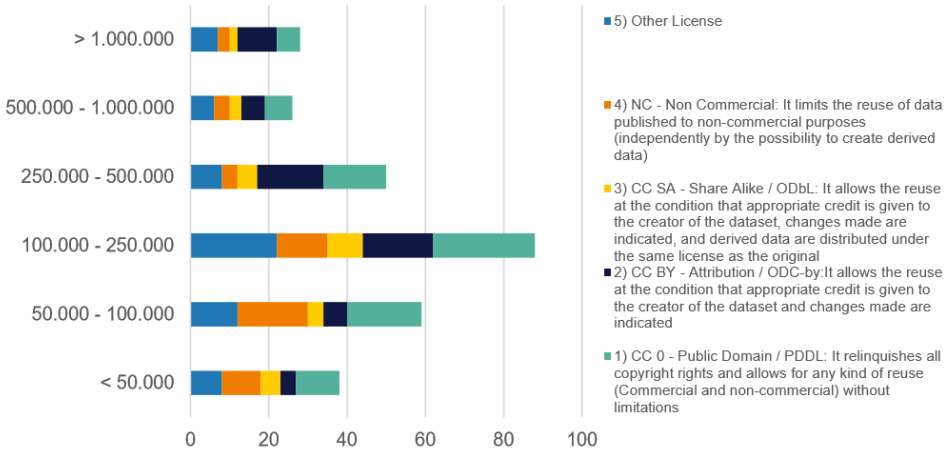

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count

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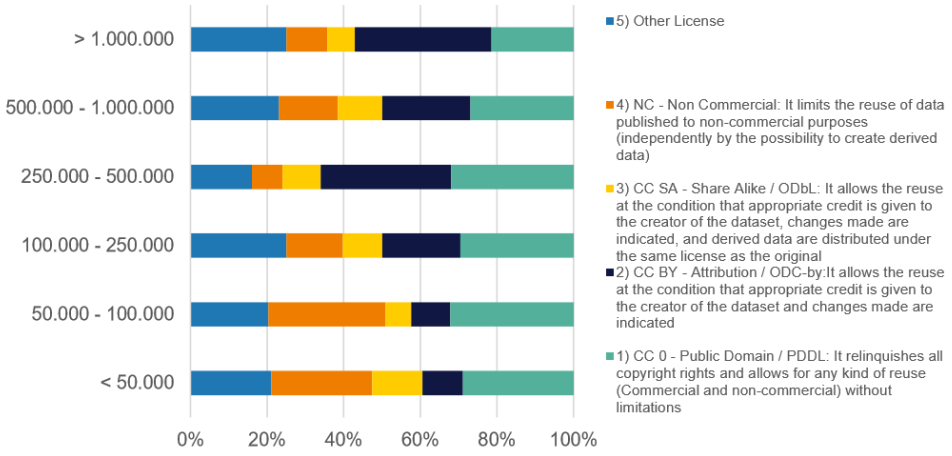

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

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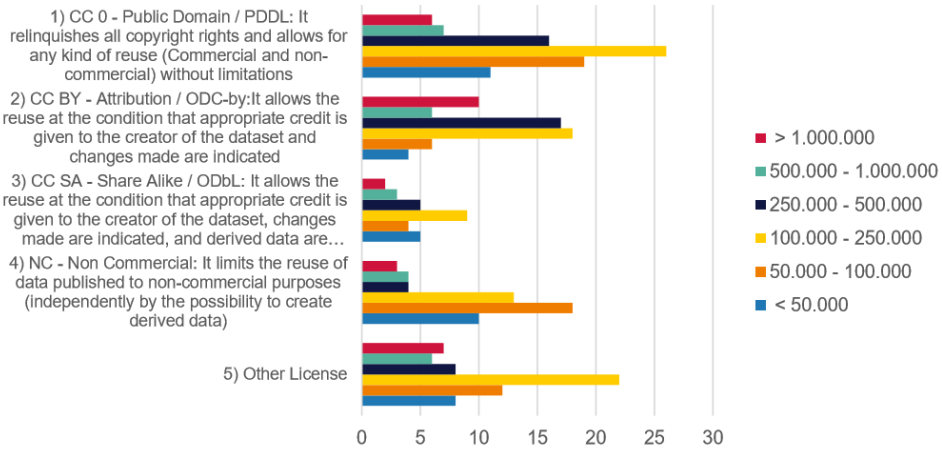

Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count