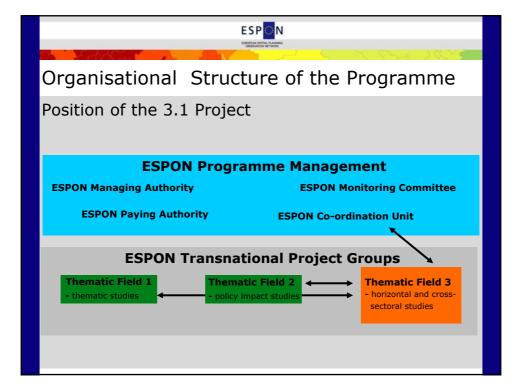


Overview on ESPON Project 3.1 "Integrated tools for European Spatial Planning"

Tasks and Results

Ljubljana, 31 May 2005 Lars Porsche

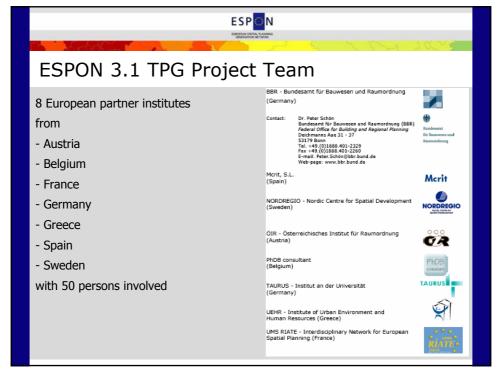


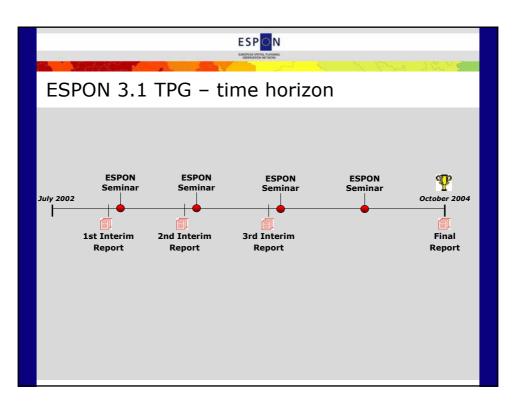


## The role of the project

#### taken from the Terms of Reference

- as a third strand project it holds a key position in the elaboration of the whole programme
- prepreation of common ground for the other projects
- integration of results towards conclusions







# Tasks of the project

#### 3 main tasks

- close co-operation with and support to the ESPON Co-ordination Unit
- co-operation with and support to other ongoing ESPON projects at that time (up to 17)
- own research



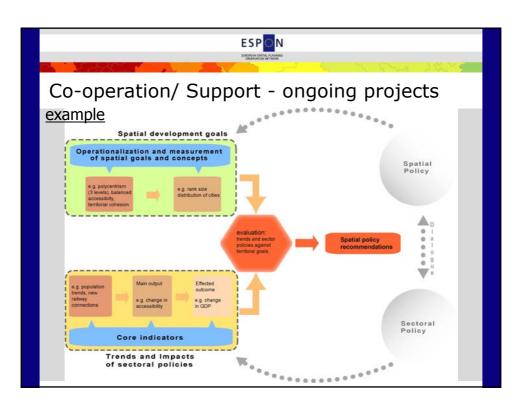
# Support to the Co-oridnation Unit

- synthesising (tentative) results from the ongoing projects
- support in the preparation of ESPON Seminars as well as TPG Lead Partner meetings
- preparation of so called Guidance Papers as a follow up of each seminar
- support concerning technical aspects, like e.g. map design
- support concerning the preparation of documents and publications



#### Co-operation/ support - ongoing projects

- methodological aspects of the common scientific approach of ESPON
- data, typologies and indicators
- technical aspects, like e.g. mapping
- preparation of so called Guidance Papers as a follow up of each seminar



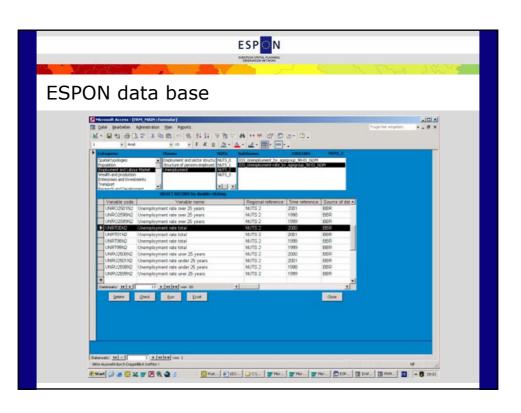


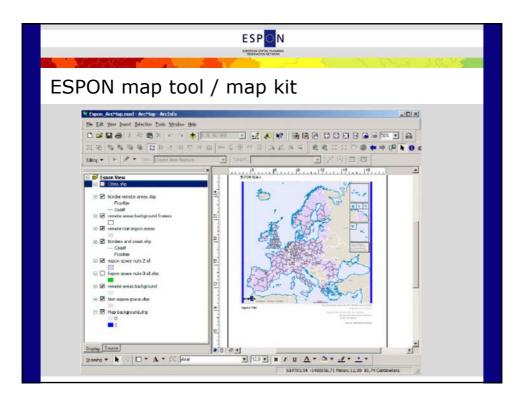
#### Own tasks/ research

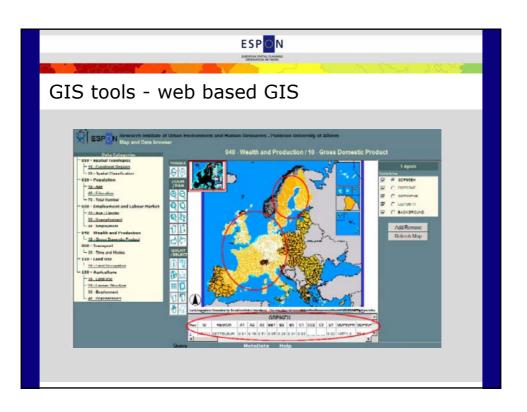
- Establishment ESPON Data Base
- ESPON GIS
  - web-based GIS
  - Hyperatlas
- spatial analysis tools (MTA, HDA, MAUP, MSM)

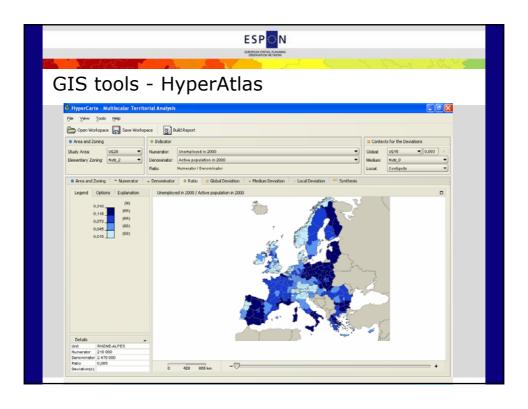
Multiscalar Territorial Analysis, Homogeneity and Discontinuity Analysis, Modifiable Area Unit Problem, Multiscalar Smoothing Methods

- co-ordination and guidance (TIA and SWOT)
- goals and concepts (methodological approach)
- ESPON Policy Support System
- Europe in the world
- Regional Classification Analysis
  - national and trans-national breakdown of results
- synthesis of ESPON project results
  - including approach, methodology, new tools, policy recommendations







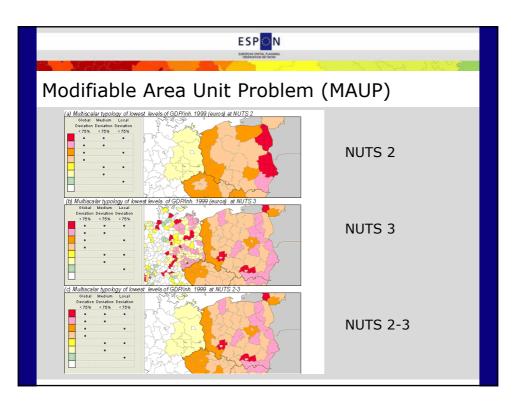




# Specific spatial analysis tools

ESPON 3.1 has developped researchs in four directions:

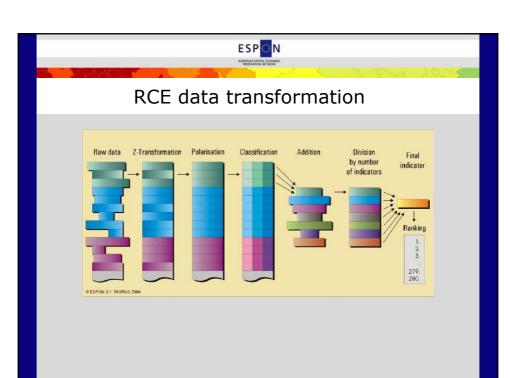
- Multiscalar Territorial Analysis (MTA)
- Homogeneity and Discontinuity Analysis (HDA)
- Modifiable Area Unit Problem (MAUP)
- Multiscalar Smoothing Methods (MSM)





### RCE - Regional Classification of Europe

- synoptical aggregation of ESPON indicators in relation to possible spatial policy relevant fields
- uses an additive linkage of indicators , which maybe classified by pre-defined threshold values, to generate more complex single indexes of the regional situation
- focus on the topics of the ESPON projects and the availability of data covering all 29 countries
- seven thematic fields of spatial development have been identified
  - Economy, labour market, demography, environment, hazards, accessibility and spatial structure
- total of 38 indicators were used.
- positive aspects of the RCE
  - flexibility to integrate new indicators
  - flexibility to re-arrange thematic fields in relation to policy demands





#### RCE indicators - e.g. economy

• GDP per capita In PPS +

• Expenditure on R&D Share of GDP +

 R&D Business Enterprise Sector BES R&D personnel per 1.000 active person +

• GDP per capita growth In Euro +

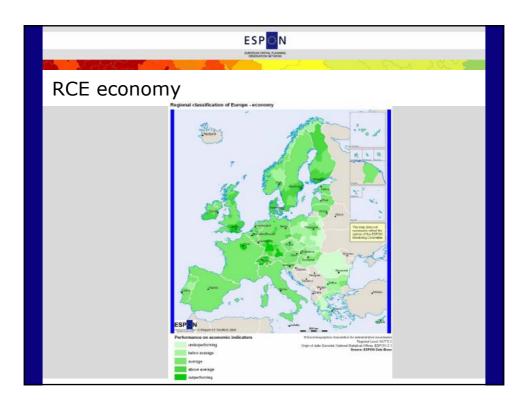
• Firms with own website Proportion of all firms +

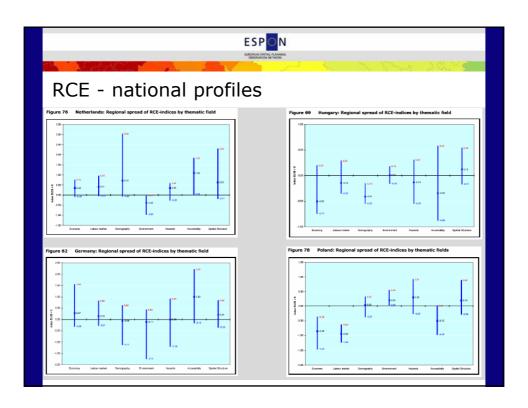
• Employment in tertiary sector Share of total

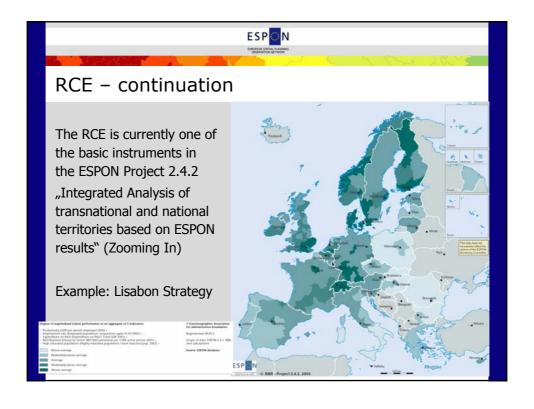
employment +

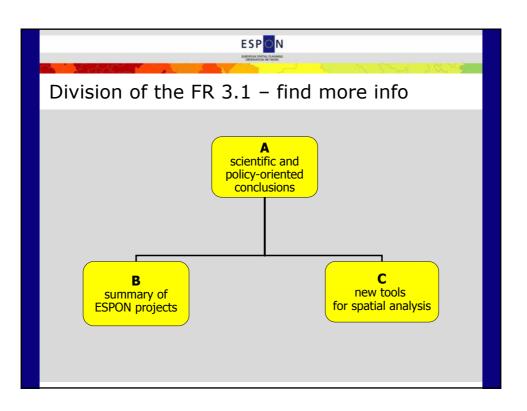
• Employment in primary sector Share of total

employment -













# Thank you for your attention!!

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#### Elements of part A

- Background of ESPON and European spatial development
- · Territorial Cohesion
  - sector policies
  - disadvantaged and handicapped regions
- Polycentricity
  - Morphology
  - Socio-economic specialisation
  - Preconditions for interaction: Accessibility
  - Co-operation and Interaction



# Structure of part B

- · Findings
  - main territorial structure (polycentricity)
  - spatial disparities and cohesion
  - dynamics and flows
  - contradictions between levels
  - trans-national level
  - what is new?
- · Methods and data
  - spatial analysis methods
  - indicators
- · Policy Recommendations
  - uncomfortable trends and policy effects
  - recommended changes in policies and governance

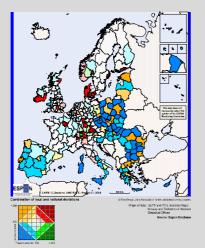


#### Elements of part C

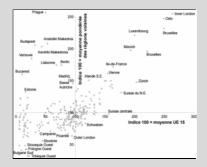
- ESPON Data Base
- ESPON GIS
- web-based GIS
- Hypercarte
- ESPON Policy Support System
- co-ordination and guidance (incl. TIA and SWOT)
- goals and concepts
- spatial analysis tools (MTA, HDA, MAUP, MSM)
   Multiscalar Territorial Analysis, Homogeneity and Discontinuity Analysis, Modifiable Area Unit Problem, Multiscalar Smc
- Europe in the world + Interreg III B
- Regional Classification Analysis
- national and trans-national breakdown of results
- + annexes



#### Multiscalar Territorial Analysis (MTA)



Ex. Combination of global and local deviations of GDP/inh. (1999)





# Elements of territorial cohesion (approach)

the concept of territorial cohesion is strongly related to

- equity and balance, reducing disparities, supporting the weaker parts of the European territory
- support for geographically handicapped regions (e.g. islands, mountain areas etc.)
- strengthen regional integration and communication, exchange, cooperation and flows between territories



### economic, social and territorial cohesion

#### Aims and differences

 Economic, social (and territorial) cohesion aim at <u>reducing</u> <u>structural disparities</u> between regions and <u>promoting equal</u> <u>opportunities</u> for all individuals. (ScadPlus glossary)

#### the focusses are different:

- **social cohesion** targets the <u>individual level</u> of persons and households and the avoidance of poverty, unemployment etc.
- economic cohesion targets the <u>intermediate level</u> of economic actors (e.g. enterprises) and institutional settings (e.g. competition rules)
- territorial cohesion refers to the <u>regional aggregate</u> and <u>regional context of social and economic cohesion</u>.
   Territory is a crucial context for individual behaviour and decisions.



#### Polycentricity - approach

- ambigous goal that is <u>opposed to monocentricity</u> as well as to total <u>sprawl</u>.
- p. seeks an optimum between (too much) concentration and the absence of concentration (sprawl)
- if concentration corresponds to "economic growth and efficiency" and de-concentration to "balanced development", polycentrism can be seen as a <u>"bridging concept</u>" between these two.
- this makes p. fundamentally ambigous, esp. when judged on different spatial levels.



# Polycentricity - four dimensions

four basic dimensions of polycentricity can be distinguished:

- Difficult to influence through public policies
- <u>functional socio-economic specialisation</u>: highly specialised Can be influenced through public policies (like Oulu for telecommunication)
- accessibility in terms of transportation and ICT: the possibility

  (Public policies can exercise influence

  to information (networks) seem to be of crucial importance
- Public policies have huge potentials for developing this aspect important.

ESP N	
polycentricity: trends and impacts	
<ul> <li>polycentric trends</li> <li>European trends on macro level support poly (catching-up of AC12)</li> <li>disparities EU15-AC12 get smaller</li> </ul>	•monocentric trends •AC12 are more poly, but trends support mono. •National trends (meso) support monocentricity
<ul><li>rising transport costs support poly.</li><li>development of regional specialisation supports poly.</li></ul>	•all transport measures support mono (except pricing) •disparities within AC12 grow
	•population trends in North and East are mono (but not the rest)
	•CAP expenditure (pillar 1) support prosperous, accessible regions and discriminate peripheral regions



#### Levels, actors and goal conflicts

- > is there a relationship between level and actor?
- > who is the (main) actor on which level?
- > who is to solve goal conflicts between levels?
- macro European EU
- · meso national/transnational MS
- · micro regional/local reg and loc authorities





# disparities within member states

- · different challenges of internal disparities in MS
  - North South
  - East West
  - capital cities rest
  - disparities in urban system (lack of medium sized cities)



# potentials and handicaps in AC12

- · dynamic capital regions
- · potentials of western border regions
- · ambivalence of old industrialised regions
- · peripheral Eastern and rural regions
- islands (ML, CYP)