

## ECP Luxembourg - ESPON Workshop 14 December 2007

## **ESPON 2006 Programme**



### Structure of presentation

- Expectations and objectives of the programme
- Evidence on European territorial development from the ESPON 2006 Programme and key messages to emphasise
- Inclusion of ESPON findings in policy relevant documents



#### **Expectations of ESPON 2006**

- Knowledge on European territorial trends
- Territorial impact of EU policies
- Integrated concepts and tools
- Spatial scenarios
- Policy support (EU and national policies, in particular Structural Funds)
- Operational deliverables (in particular territorial indicators and diagnosis)
- A network and scientific platform for European territorial research



#### **Objectives of ESPON 2006**

- European (and transnational) focus
- Develop orientations for better perception and application of the ESDP
- Contribute to better understanding of enhancement of spatial dimension of EU policies
- Improve coordination of territorially relevant decisions
- Bridge the gap between policy makers, administrators and scientists
- Create network of European "territorial" scientific community



#### **Territorial cohesion trends**

- Core is spreading geographically
  - Pentagon is a reality
  - Extending along several corridors
- Strong urban nodes outside the core
  - Metropolitan urban agglomerations
  - Small and medium sized cities
- Overarching trends and structures stimulate imbalances and challenge territorial cohesion, such as
  - Market forces supporting geographical concentration
  - Imbalances in access and connectivity
  - Disparities between neighbouring areas increasing in parts of Europe

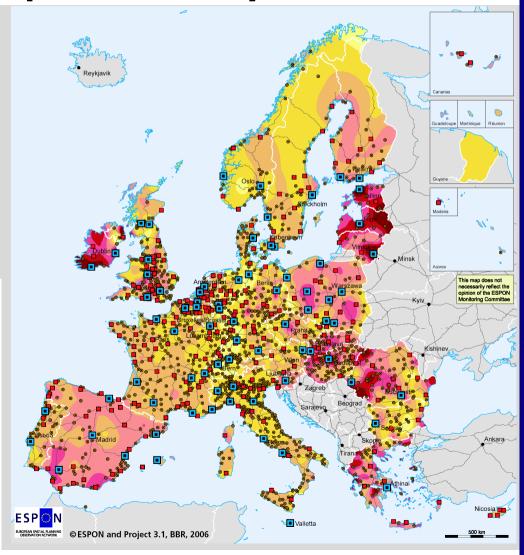


## Main economic structures of the European territory

- Strong urban nodes
   close to and outside the
   core
- High GDP growth in areas with relatively lower GDP level

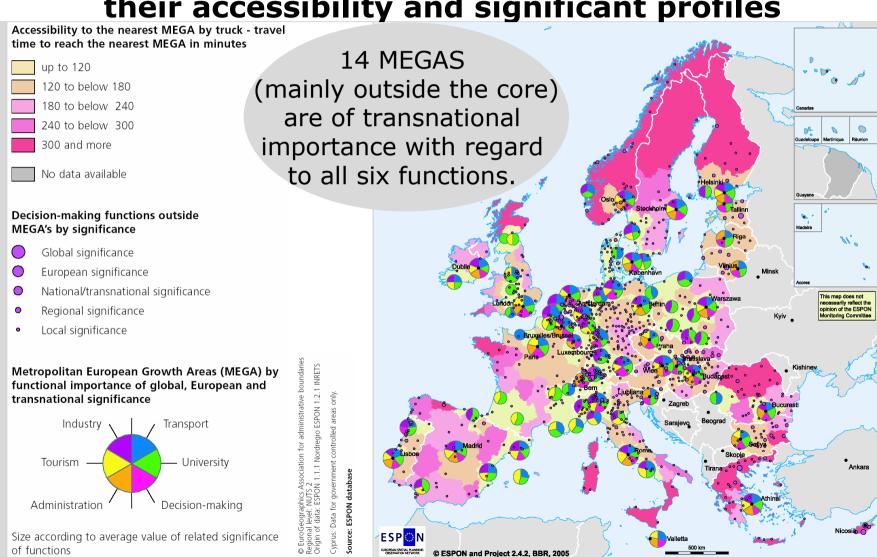
#### **Functional Urban Areas (FUAs)**

- Metropolitan European Growth Areas (MEGAs)
- Transnational / national FUAs
- Regional / local FUAs
- Highways of European level





Major urban areas, their accessibility and significant profiles

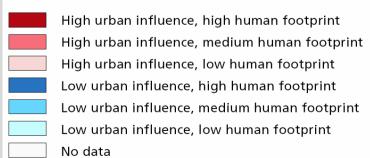


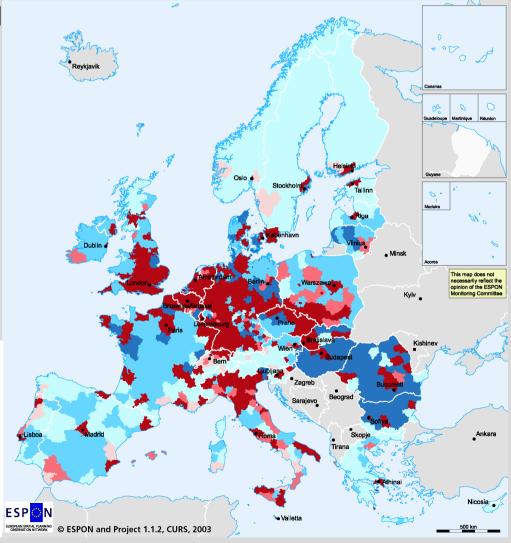


## **Urban-rural typology**

- Differences in national and European perpection
- Rural areas ≠ agricultural areas
- Different types of rural areas:
  - Urban hinterland
  - Rural development poles
  - Remote rural areas

**Urban-rural typology, based on population density,** ranking of Functional Urban Areas and land cover.







#### **Increasing competitiveness**

- Lisbon strategy for growth and jobs
  - Regions' potentials differ
  - Knowledged based economy not best option for all
- Accessible urban areas showing best Lisbon performance
  - The core and the North in the most favorable position
  - Less urbanised and less accessible areas can do well
- Innovation potential has a distinct territorial pattern
  - R&D and creative jobs weaker in peripheral parts (East, West and South)
  - Metropolitan areas highest on R&D spending



#### **Economic Lisbon indicators**

#### 7 out of 14 Lisbon indicators:

- (1) GDP/capita,
- (2) GDP/employed person,
- (3) Employment rate,
- (4) Employment rate of older workers,
- (5) Gross domestic expenditure on R&D
- (6) Dispersion of regional (un)employment rates
- (7) Long-term unemployment rate.

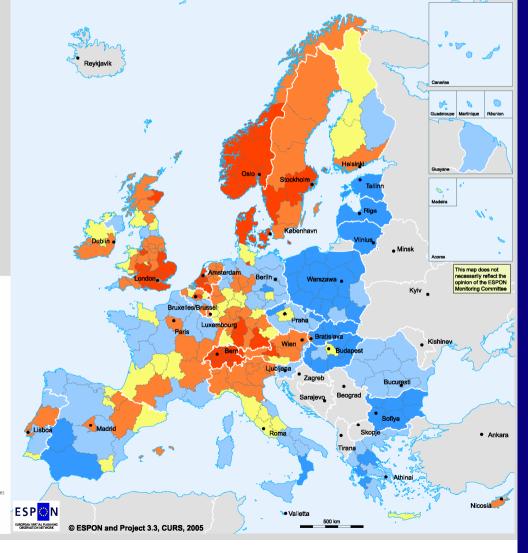
#### **Performance**

Number of indicators in the upper quartile minus number of indicators in the lower quartile

- Primarily high performance
- Medium performance
- -3 -1
- < -3 Primarily low performance

Origin of data: Eurostat. national statistical officce

No data available Source: ESPON database

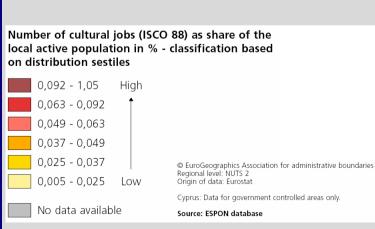


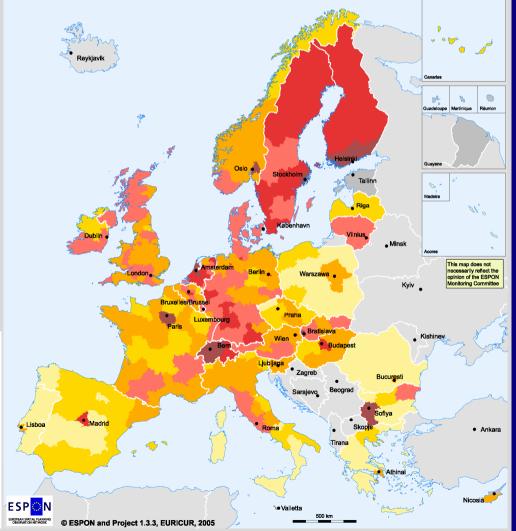


## **Cultural/creative employment 2005**

(as share of local active population)

- Mainly national patterns
- Finland, Sweden,
   Netherlands, Switzerland
   in the top
- Regional variations mainly related to the urban structure





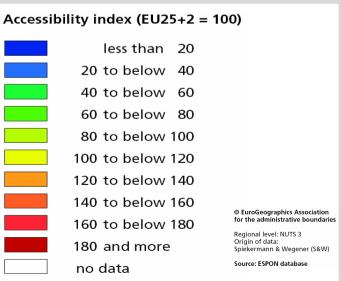


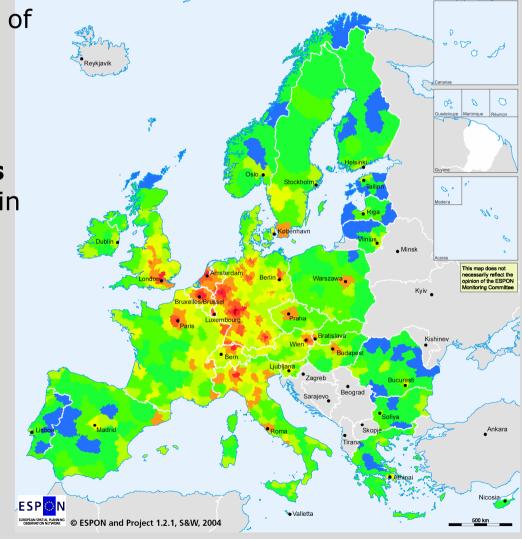
### Potential accessibility multimodal, 2001

 Core-periphery pattern of multimodal accessibility

 Accessibility by road improves outside core

 Increasing energy prices challenge accessibility in rural and remote areas

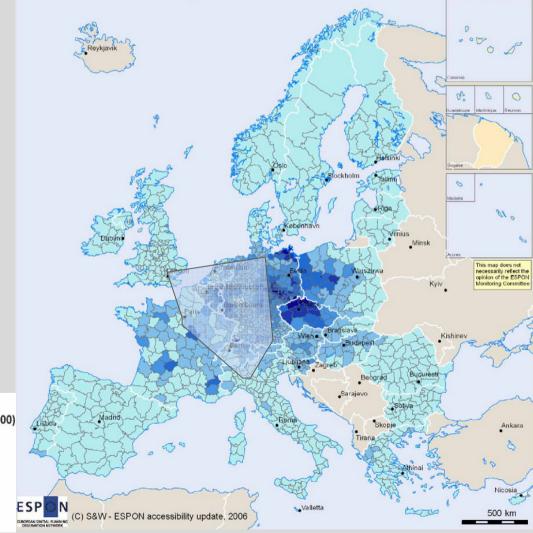






## Absolute change of potential accessibility by road between 2001 and 2006

- Areas close to the core gain most in potential accessibility by road
- Corridors leading to/from the core



#### Potential accessibility

Road, absolute change 2001-2006 (EU27 absolute average in 2006 = 100)





## Climate change and hazard risks

- Hazards in general do not undermine competitiveness not yet
- Climate change might tomorrow have long-lasting negative impacts on
  - Competitiveness
  - Attractiveness of regions and cities
  - Cohesion
  - Liveability
  - Sustainable development
- Adaptation and mitigation measures will be necessary
- <u>But</u>: Climate change may also create new development opportunities



# Aggregated natural and technological hazards

#### Natural hazards:

- Avalanches
- Drought potential
- Earthquakes
- Extreme temperatures
- Floods
- Forest fires
- Landslides
- Storm surges
- Tsunamis
- Volcanic eruptions
- Winther and tropical storms These values are then weighted

#### **Technological hazards:**

- Air traffic hazards
- Major accident hazard
- Nuclear power plants
- Oil processing, storage and transportation

This map shows the aggregated hazard typology based on 15 hazard indicators. Every indicator gives the value from 1 to 5 depending on the magnitude of the hazard in the NUTS 3 area. For the class "no data" value is 0. on base of expert opinion (Delphi method questionary). At the end the sum of 15 weighted indicators are classified on base of percentile rank. For instance. NUTS 3 areas that belong in 90-100 percentile have their score greater than or equal to 90% of the total of all the summed hazard values.

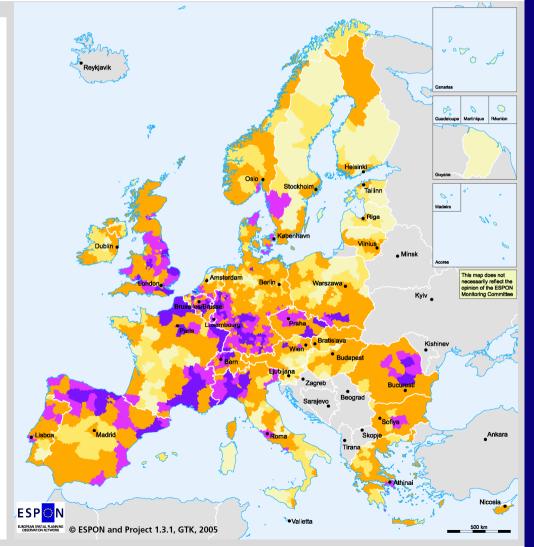
#### Hazard classification

0-10 percentile
10-25 percentile
25-75 percentile
75-90 percentile
90-100 percentile

no data

© EuroGeographics Association for the administrative boundarie

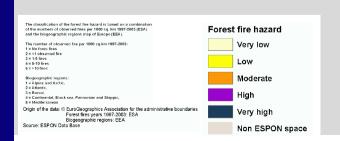
Regional level: NUTS 3 Origin of data: ESPON Project 1.3.1, GTK Source: ESPON database

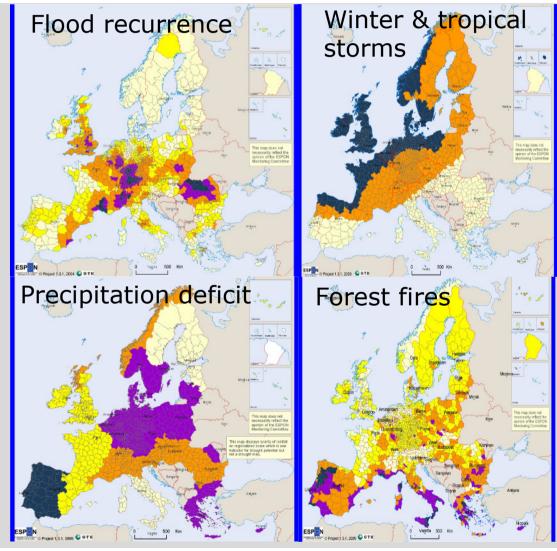




#### **Natural Hazards**

- Southern Europe: forest fires and drought hazards
- Western and Northern Europe: winter storms, storm surges and floods
- Climate: affects frequency, intensity and coverage







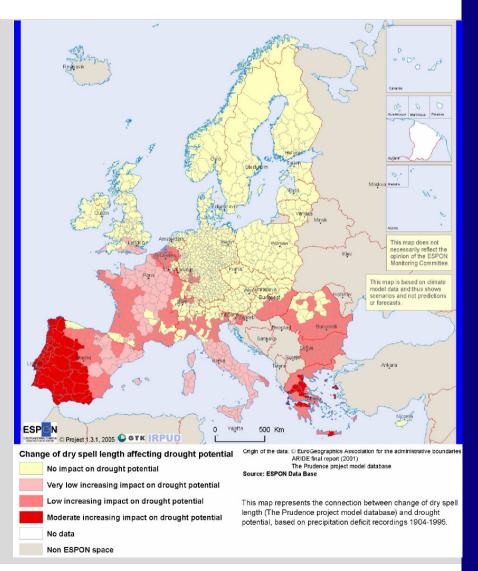
## **ESPON 2006 key message:** Territory matters

- Rich regional diversity of Europe is an asset
- Territorial potentials increasingly important for competitiveness
- Territorial imbalances challenge cohesion
- Contributions to **Lisbon/Gothenburg objectives** feasible from all cities, regions and larger territories
- Territorial cooperation may provide synergies
- Evidence necessary for growth and policy making
  - Understand the dynamics
  - Compare to find comparative advantages
  - See opportunities in the larger context



#### Main challenges with territorial impact

- Demography: Ageing and migration
- Geography: Further EU enlargements
- Economy:
   Globalisation &
   technological development
- **Energy:** Increasing energy prices
- Transport:
   Saturation of eurocorridors
- Climate change:
   New hazard patterns





#### **ESPON** in use

- European policy documents
  - EC Third and Fourth Cohesion Report
  - Community Strategic Guidelines
  - National Strategic Reference Framework Documents
  - Territorial Agenda for the EU & Action Programme
- National spatial policy documents (Hungary, Denmark, Czech Republic, Poland, Holland, Sweden and more)
- Test by (a few) transnational areas



#### **More information**

Thank you for your attention

Please have a look at:

www.espon.eu

All ESPON synthesis documents, final and interim results, data and mapping tools are available for free