Which role do macro-regions play for the competitiveness of Central and Eastern Europe?

International Conference: Regional Development in Central and Eastern Europe

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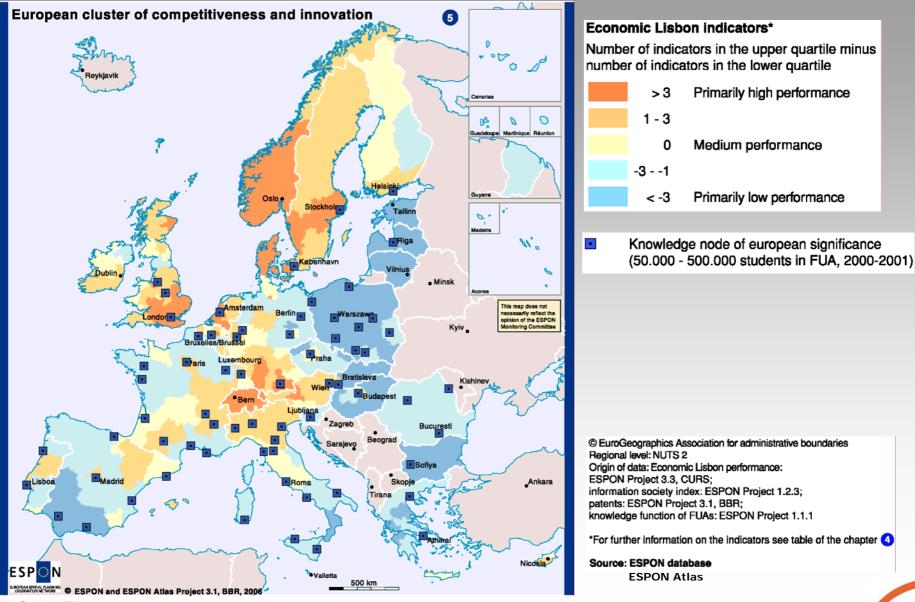
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- Introduction
- Macro-regions
- Defining regional competitiveness (?)
- Competitiveness of Central and Eastern European macro-regions
- Conclusions



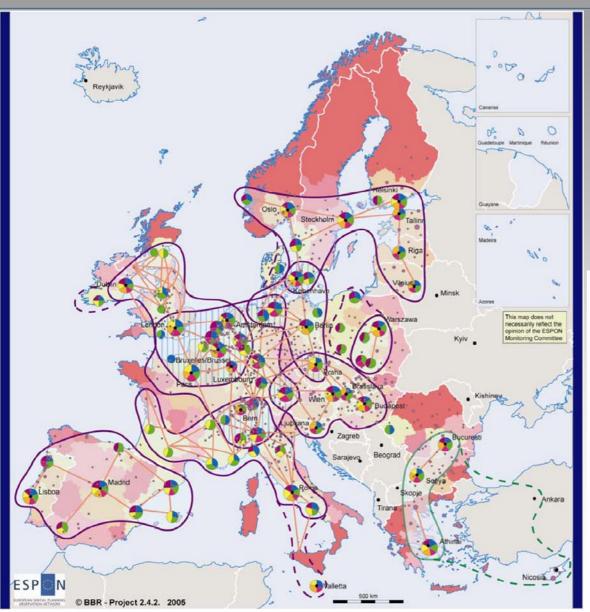


Introduction

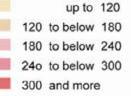


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Macro-regions



Accessibility to the nearest MEGA by truck - travel time to reach the nearest MEGA in minutes



Travel times of one hour or less by air or rail between 71 MEGAs in 2003

Decision-making functions outside MEGA's by significance

- Global significance
- European significance
- National/transnational significance
- Regional significance
- Local significance

Metropolitan European Growth Areas (MEGA) by functional importance of global, European, national and transnational significance



Size according to average value of related significance of functions

Potential European Global Integration Zones (EGIZ)*

Strong Potential European Integration Zone

Potential extension with improved accessiblity

Future Potential European Integration Zone

Potential extension with improved accessiblity

Global integration hinge region



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Macro-regions

Assumptions about use of macro-regions

- strong links (economic, infrastructure,...) between regions of one macro-region
- each macro-region needs to cover all metropolitan functions
- division of labour within macro-region
- utilisation of spill-over effects growth in one region enhances other regions' development

Objective (ESDP, Lisbon): balanced territorial polycentric development



Regional competitiveness?

Micro-economic approach

- Competition: behaviour of independent economic actors on a market to achieve individual objectives at the cost of the competitors
- Competitiveness: an actor who achieves his objectives (maximise turn over, profit,...) is competitive
- Measurement: net income of actor, productivity with regard to different factors of production

Possible implications for macro-economic considerations

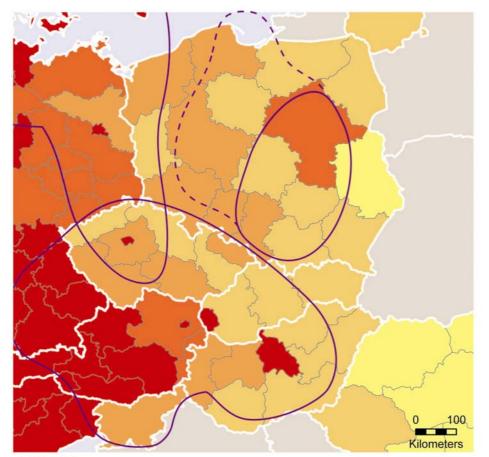
- the larger the population the higher GDP, effect on GDP/capita? ⇒ raise attractiveness of regions
- competition for GDP/capita, labour productivity, innovativeness?



Competitiveness in Central and Eastern Europe I – Labour productivity

Regional level: NUTS2

Source of data: Eurostat



GDP in PPS per person employed 2004

Potential European Global Integration Zones

up to 20,000 20,000 - 30,000 30,000 - 40,000 40,000 - 50,000

more than 50,000 (Munich region 75,324)

Strong Potential European Integration Zone

Potential extension with improved accessiblity

Western Central European zone

Cconsiderable differences, though at high levels of productivity

Central & Eastern Europe

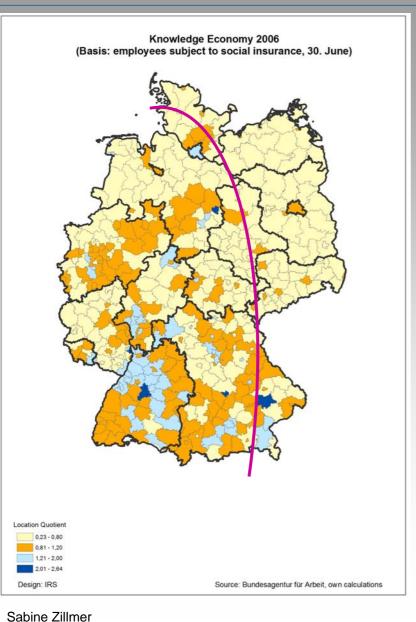
Low level as compared to Western Europe

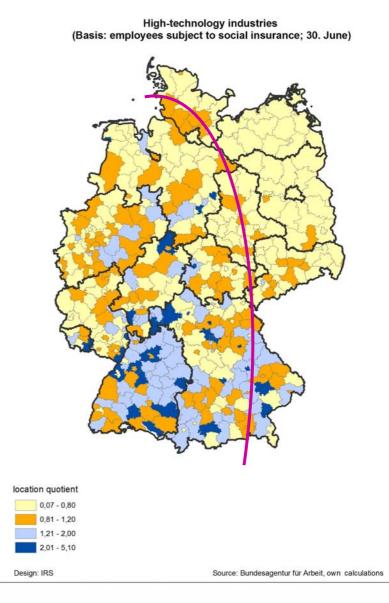
Highly heterogeneous productivity levels within either integration zone



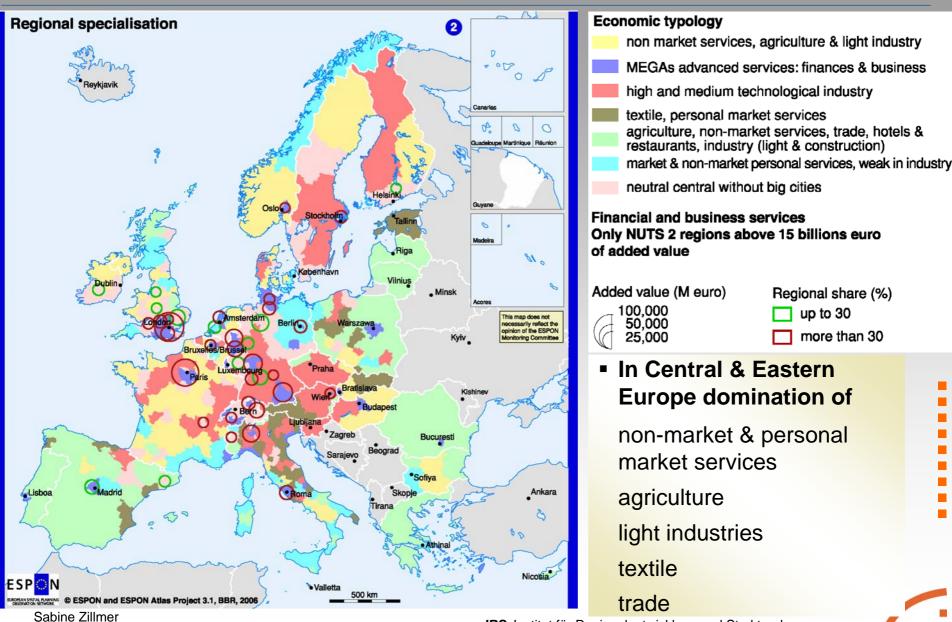
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Innovative economic activity in Pentagon area – knowledge economy in Germany



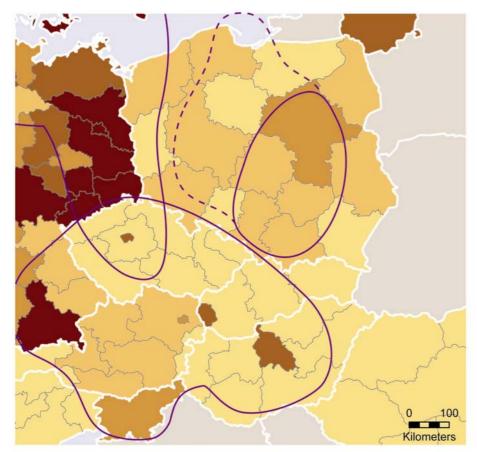


Competitiveness in Central and Eastern Europe II – regional specialisation



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Competitiveness in Central and Eastern Europe III – Sources of innovativeness: highly educated population



Highly educated population as share of total population 25 - 64 years in percent 2005



Potential European Global Integration Zones Regional level: NUTS2 Source of data: Eurostat

Strong Potential European Integration Zone Potential extension with improved accessibility Western Central European zone

Mostly medium to high shares of highly educated population

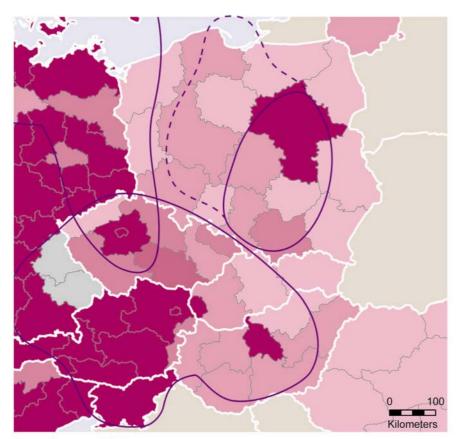
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Highly educated population strongly concentrates in metropolitan regions

Strong potential disparities within Danube zone



Competitiveness in Central and Eastern Europe IV – Sources of innovativeness: relative R&D expenditures



Expenditures on R&D in PPS per person employed 2003/2004

up to 100 100 - 200 200 - 300 300 - 400 more than 400 (Munich region 3,250)

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Potential European Global Integration Zones

Regional level: NUTS2 Source of data: Eurostat

Strong Potential European Integration Zone no data

Potential extension with improved accessiblity

Western Central European zone

Heterogeneity, but on relatively high level in majority of regions

In core of the zone even relatively homogeneous role of R&D

Central & Eastern Europe

Again: concentration on capital regions only

Few linkages with other regions expected

Tentative conclusions

• Limits of the analysis

- Data availability restricts analysis to NUTS 2 level rather than smaller units
- Important flow indicators are missing for measuring regional links
- Macro-regions & competitiveness in Central and Eastern Europe
 - Economic structure hampers integrative development
 - Accessibility not sufficient for actual integration zone development
 - Existence of all metropolitan functions does not automatically imply integration of macro-region
 - Instead: domination of metropolitan (especially capital) regions
 - macro-region concept as such can not contribute to Central and East European growth and competitiveness in the sense of a balanced territorial polycentric development
 - Integrated actions for the macro-regional development are needed to give the concept a more active role