ESPON

«Making Europe Open and Polycentric»

Vision and Scenarios for the European Territory towards 2050

Findings from the ESPON project ET2050

see www.espon.eu

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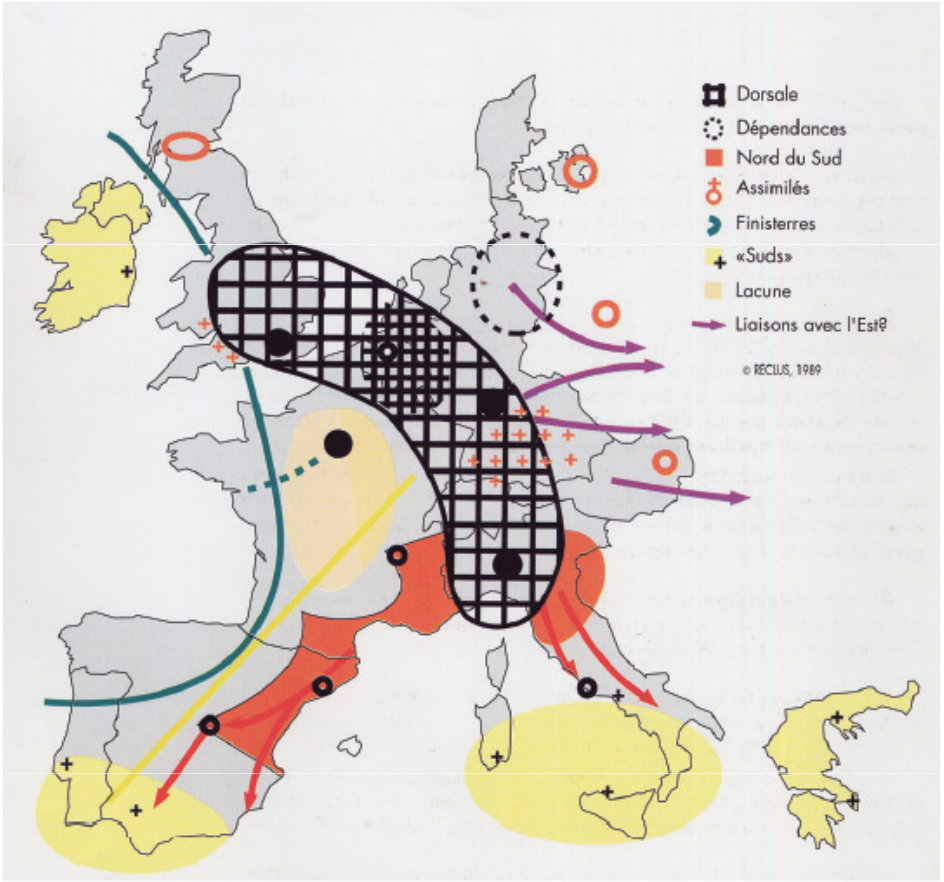
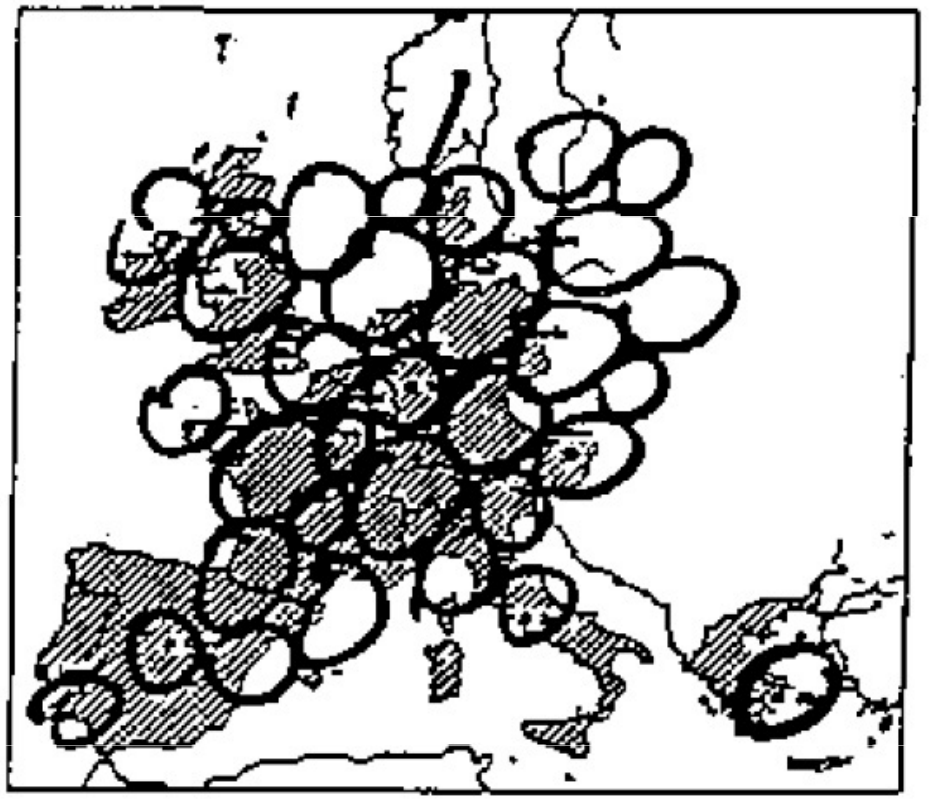
European Territorial Visions & Strategies: 1968 to 2014

- European Outline Convention (1968)
- European Spatial Planning Charter (1983)
- Europe 2000: Outlook for the development of the Community's territory (1991)
- Europe 2000+, Cooperation for European territorial development (1994)
- ESDP: European Spatial Development Prospective (1999)
- SPSP: Study Program on Spatial Planning (2000)
- ESPON: European Observation Network for Territorial Development (3.2, 2006)
- Green Paper on Territorial Cohesion (2008)
- Territorial Agenda 2020 (2007, 2011)

Representations of **Territorial Trends** and **Territorial Vision** for Europe





Blue Banana (Brunet 1989) / **Bunch of grapes** (Kunzmann & Wegener, 1991)

European Roadmaps and Visions towards 2050

- Roadmap for moving to a competitive low carbon economy 2050
- Roadmap to Resource Efficient Europe 2050
- Roadmap to a Single European Transport Area 2050
- Roadmap for Energy 2050
- Roadmap for maritime spatial planning in the EU

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Trends > Vision > Policies

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An amazing mea culpa from the IMF's chief economist

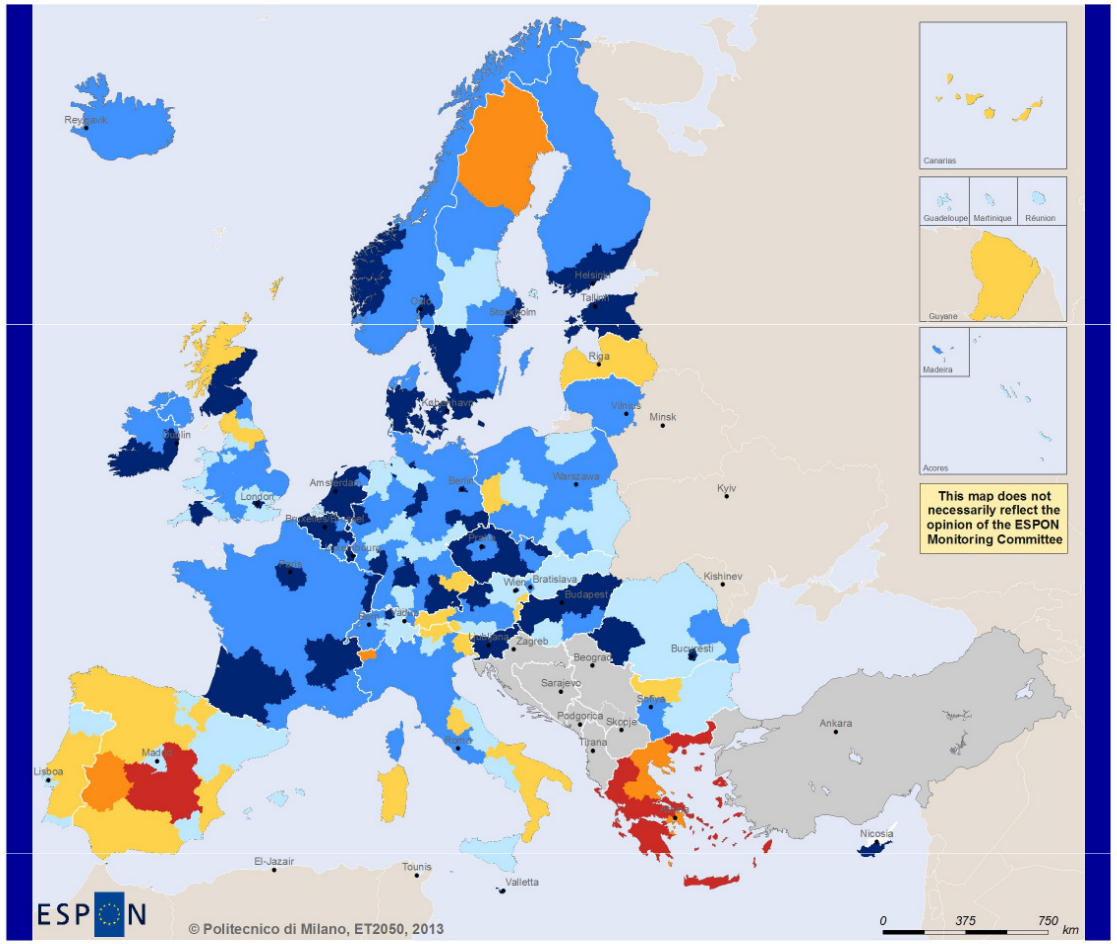
"**Forecasters significantly underestimated the increase in unemployment and the decline in domestic demand associated with fiscal consolidation**".

Growth Forecast Errors and Fiscal Multipliers.
Blanchard, Olivier ; Leigh, Daniel
January 03, 2013 IMF Paper

Average moderate growth and growing regional disparities towards 2030

GDP Growth 2010 - 2030 (Baseline)

Measured as annual average GDP growth rate along the period



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Regional level: NUTS2
Source: Politecnico di Milano, 2013
Origin of data: MASST3 Model
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GDP Growth annual average rate (Units: %)

Results obtained by MASST3 forecast model

- < 0%
- 0% - 0,5%
- 0,5% - 1%
- 1% - 1,5%
- 1,5% - 2%
- > 2%

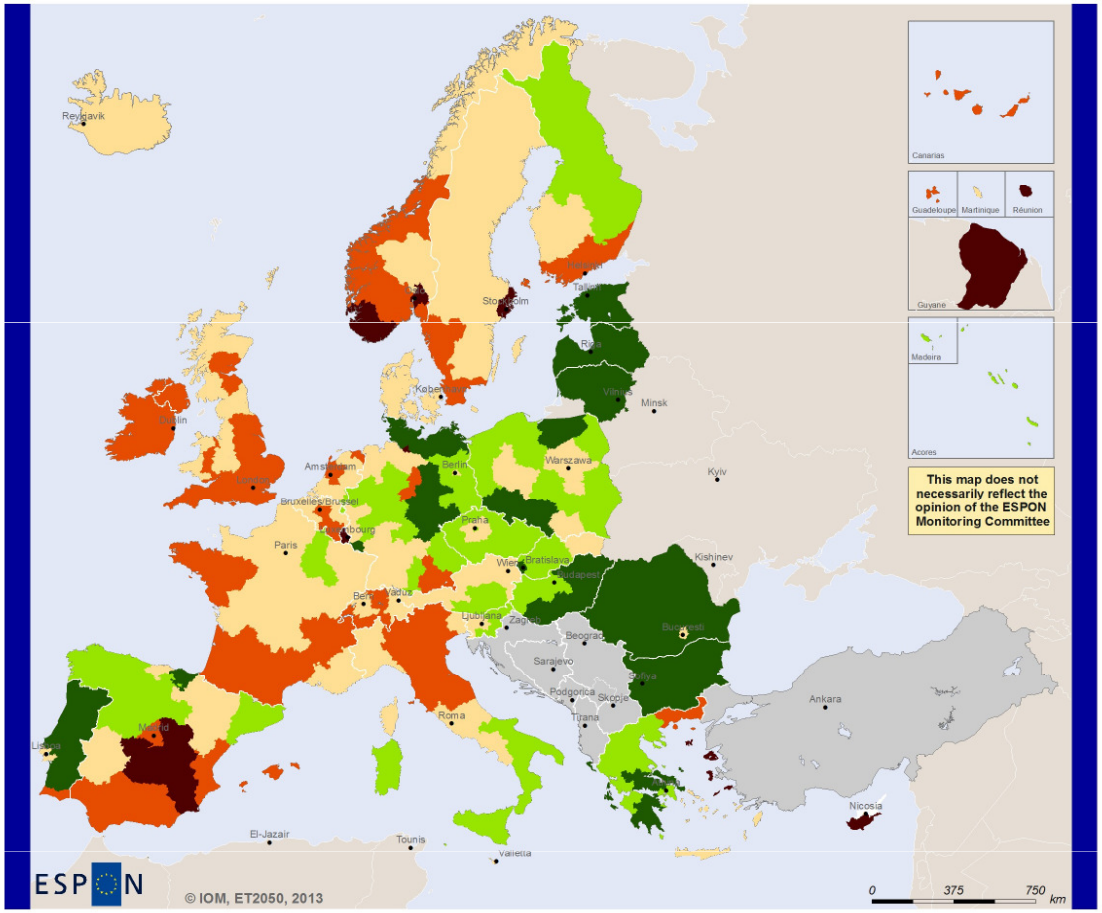
GDP a.a.: 1,89 %

45 regions bellow 1,00 %

Stable, ageing and more mobile population towards 2030

Total Population 2010 - 2030 (Baseline)

Measured as annual population change



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Regional level: NUTS2
Source: IOM, 2013
Origin of data: MULTIPOLES Model
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Annual population change (Units: %)

Results obtained by MULTIPOLES forecast model

- < -0,5%
- -0,5% - 0%
- 0% - 0,5%
- 0,5% - 1%
- > 1%
- No data (ESPON space)
- No data (No ESPON space)

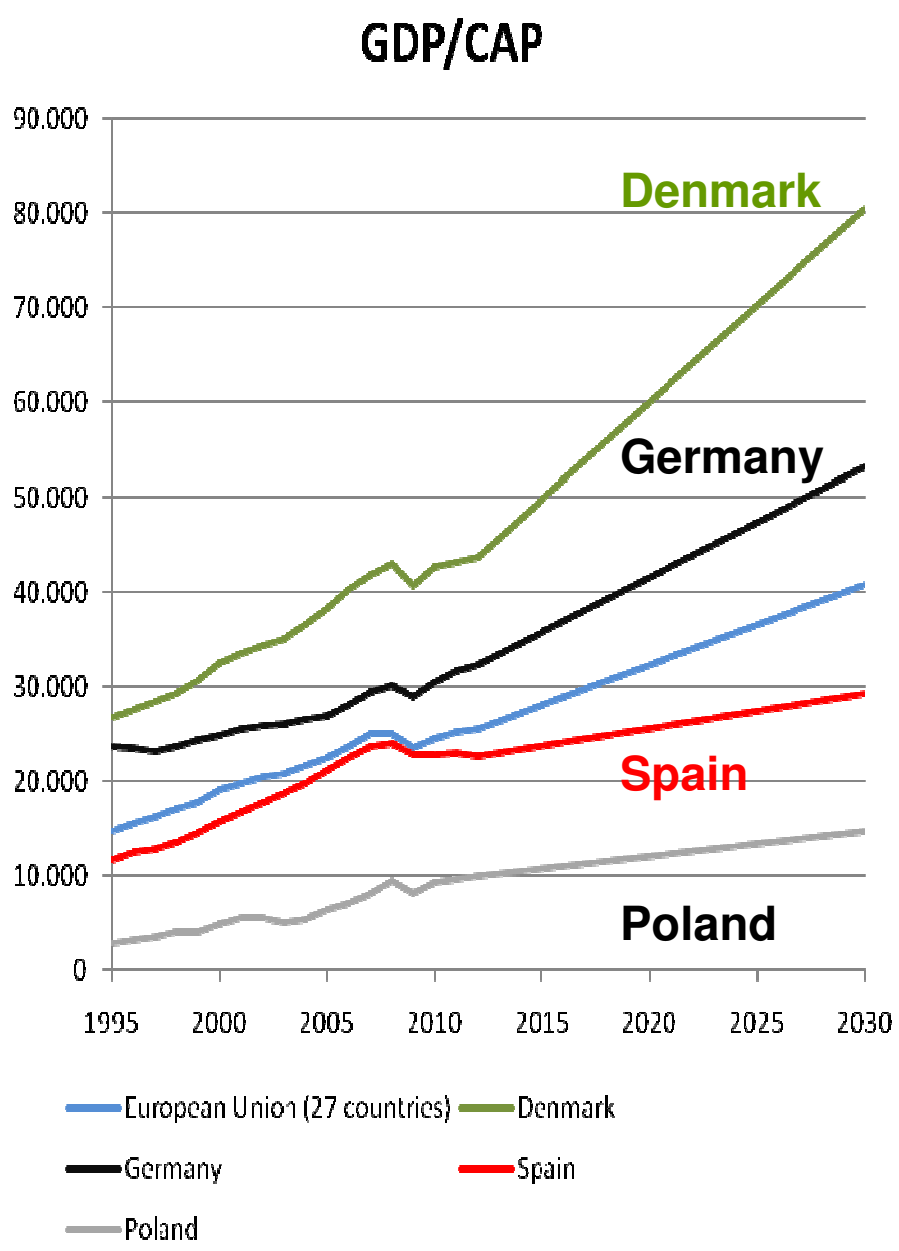
From 514 to 530 inh.,
%>64 years 26% to 39%

European population growth will tend towards stabilisation.
Total population (ESPON Space) will grow from 514 million in 2010 to 530 million in 2030.

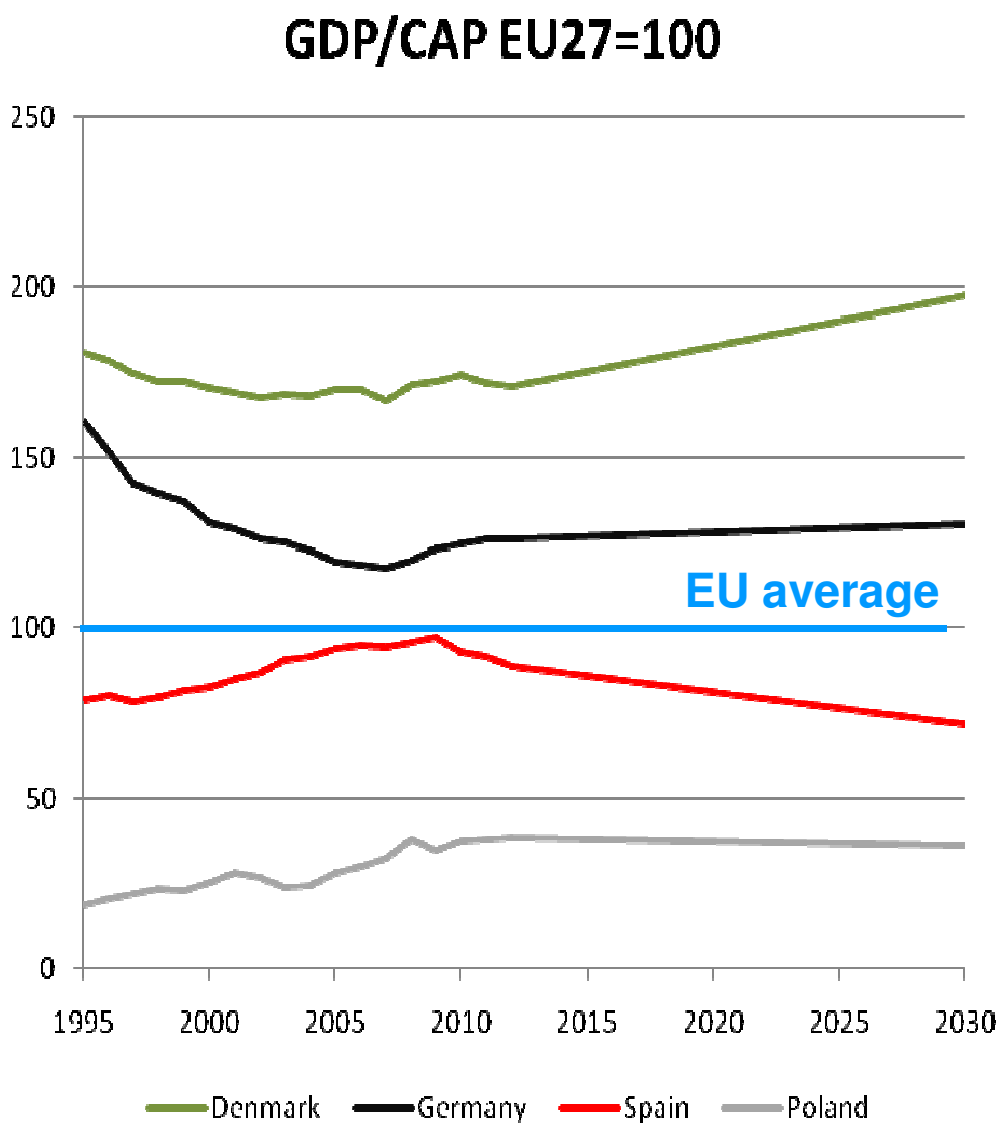
MULTIPOLES is a cohort-component population dynamics model. It is used for the simulations of complex hierarchical multiregional, multi-country population systems; for analysing impact of various scenarios concerning migration, fertility, and mortality.

Growing disparities towards 2030 for a sample of EU countries

Absolute values

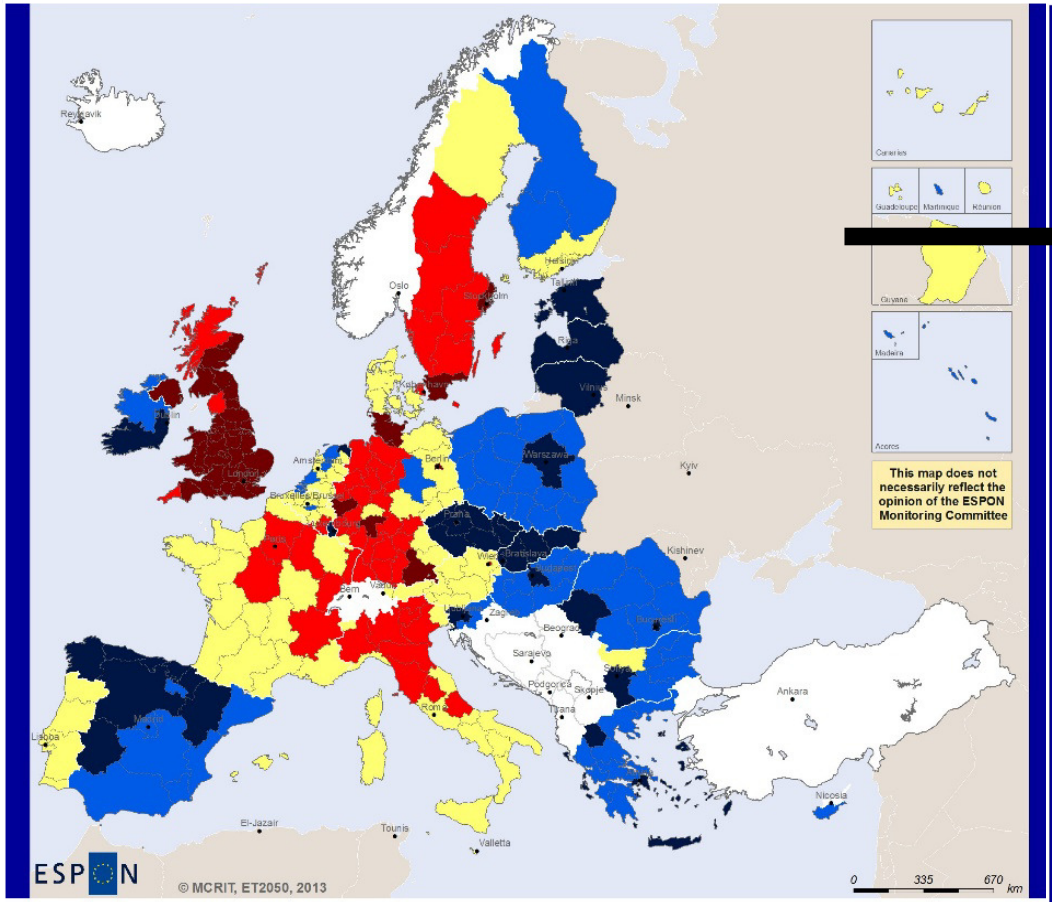


Relative to EU values



Change on the evolution towards more converge: need for new Cohesion policies!

2000-2010



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Regional level: NUTS
Source: Mcrit, 20
Origin of data: ESPON DATABAS
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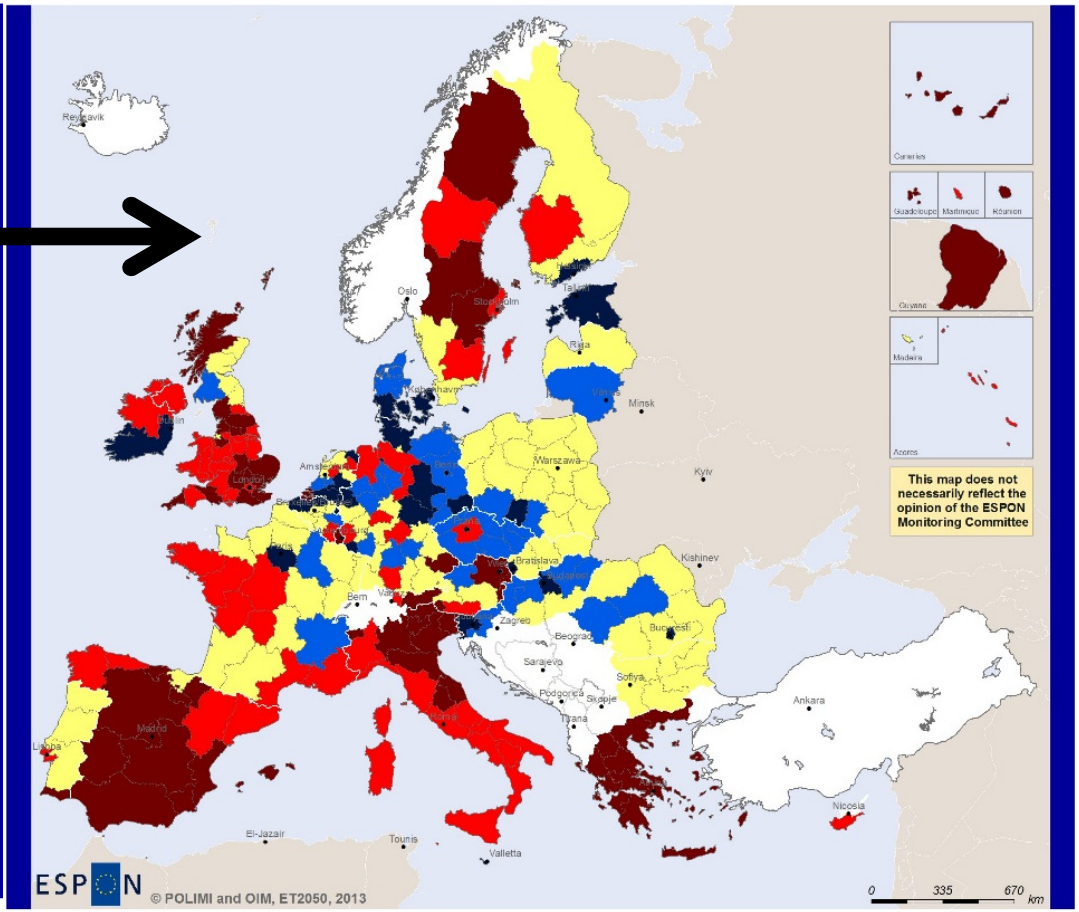
Relative change in GDP per capita growth in relation to EU27 average

- < -15%
- -15% - -5%
- -5% - 5%
- 5% - 15%
- > 15%

2010-2030



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Regional level: NUTS2
Source: Mcrit, 2013
Origin of data: ESPON DATABASE
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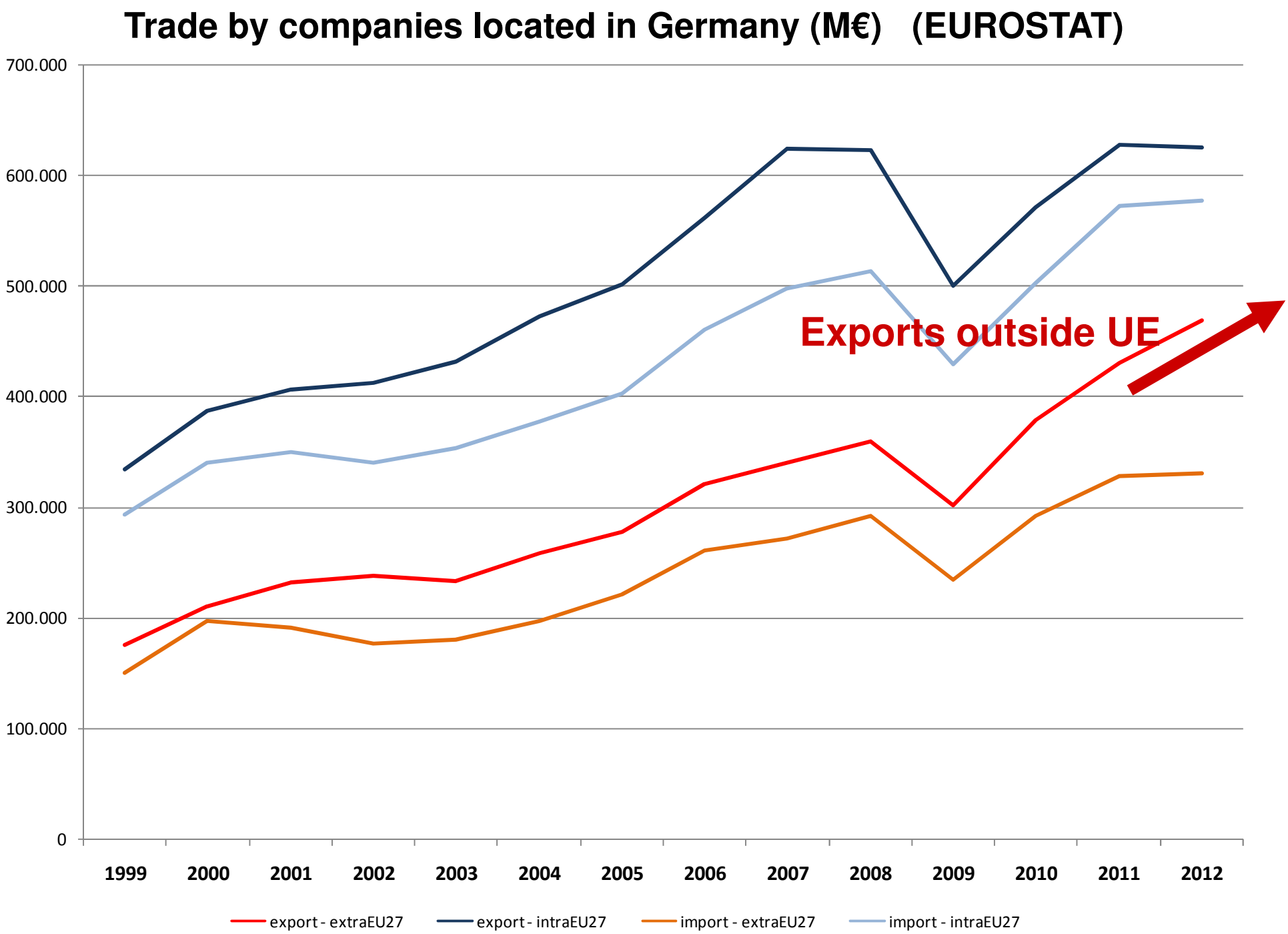
Relative change in GDP per capita growth in relation to EU27 average

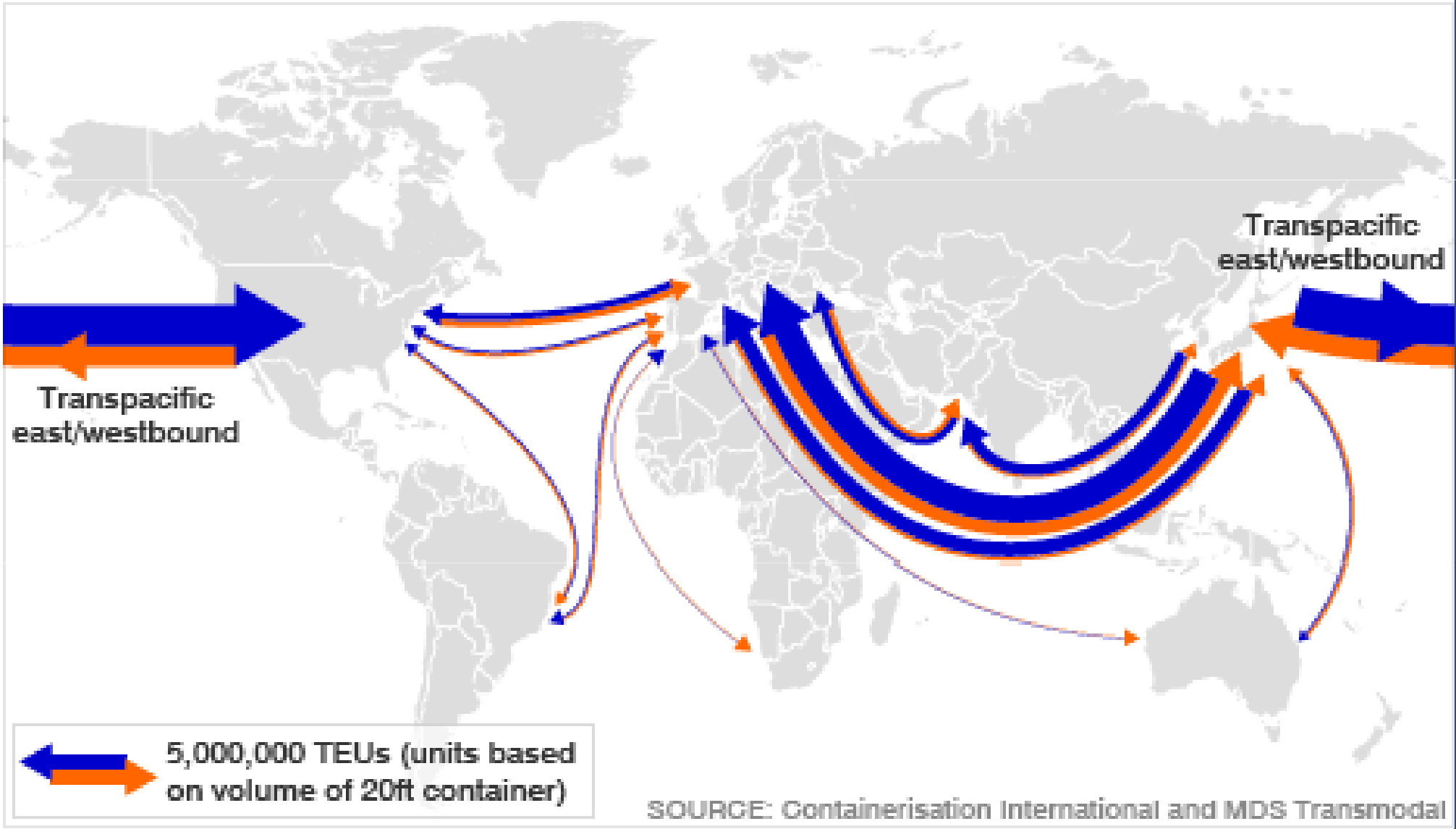
Results obteined by MASST (Economy) and MULTIPOLES (Demography) forecast models

- < -15%
- -15% - -5%
- -5% - 5%
- 5% - 15%
- > 15%

Next globalisation phase: Increasing exports outside Europe. Different trade patterns

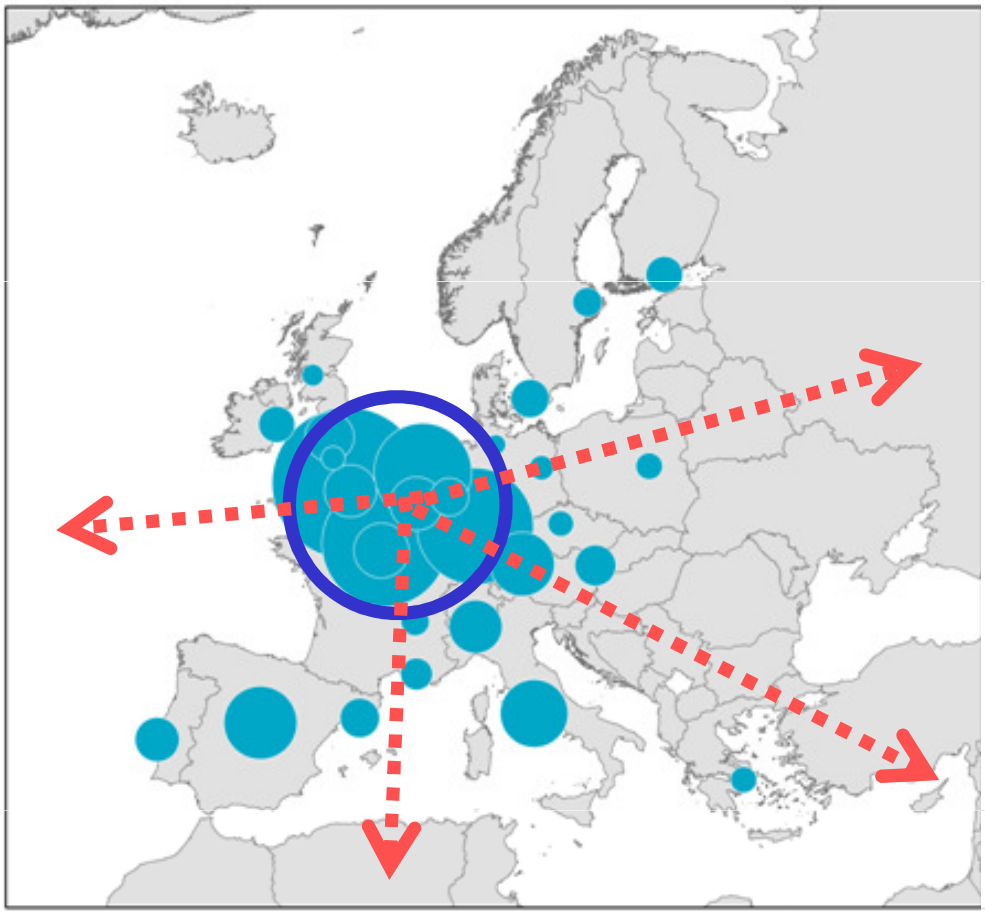


New world “geography of flows”



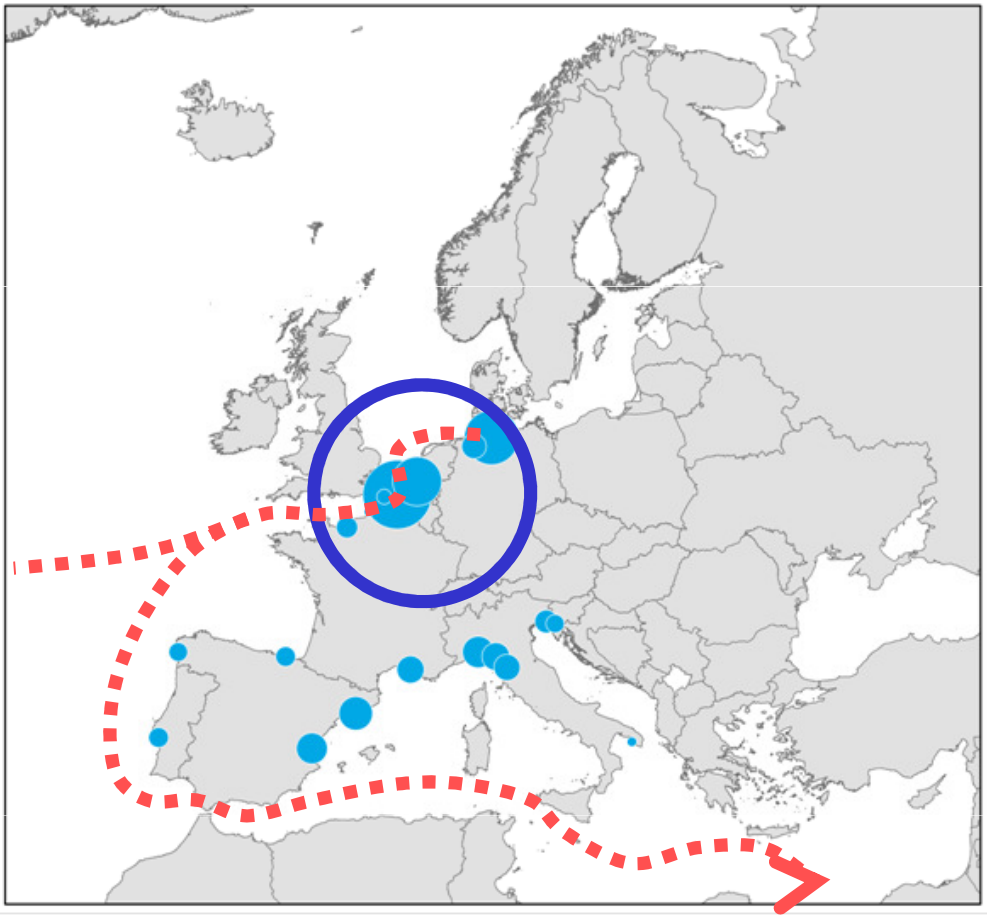
Container Intercontinental Maritime Links (2008)

Geographic concentration of intercontinental gateways in Europe



60% of intercontinental Revenue Passenger·kilometres (RPK) throught 4 European Air Hubs:

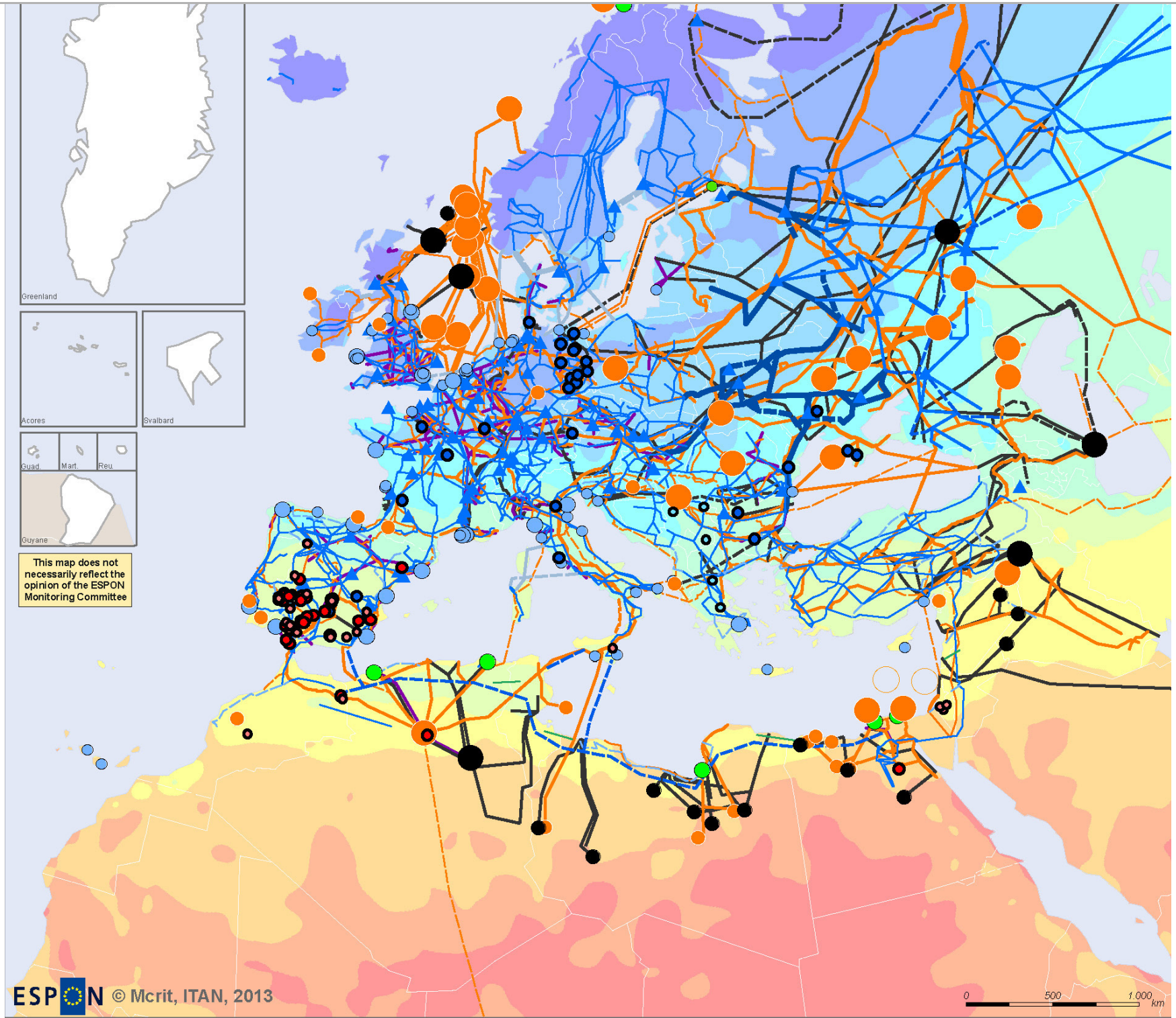
Heathrow, Paris CDG, Frankfurt and Schiphol



50% of the container traffic in Europe handled in 4 major Maritime Hubs:

Antwerp, Rotterdam, Hamburg, Bremerhaven

Neighborhood: Energy networks (solar, oil, gas, LNR, HV electricity)



Change of political perceptions in the crisis aftermath...

- Before the 2008 crisis:
  - The progress towards the Single Market and Cohesion Policy were considered an overall successful history…
  - …concerns were related to the “Steady Decline” of the more developed European economies at global scale
- After the crisis:
  - Concerns on growing social and regional internal unbalances.
  - Concerns on EU relations with neighbouring countries
  - Euro scepticism: EU policies have contradictory impacts

✓ **Need for reform in Cohesion and EU policies**

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Trends > **Vision** > Policies

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ESPON Monitoring Committee Workshops

Kraków, 29-30 November 2011

Aalborg , 13-14 June 2012

Brussels, 28 September 2012

Paphos, 4-6 December 2012

Dublin, 12-14 June 2013

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European Commission, Parliament and Committee of Regions

22 Nov 2012 in Warsaw

Mrs. Hubner, 26 February 2013

European Parliament, 25 June 2013

DGREGIO EC, 25 June 2013

COTER 9th October 2013

Stakeholders, 11 October 2013

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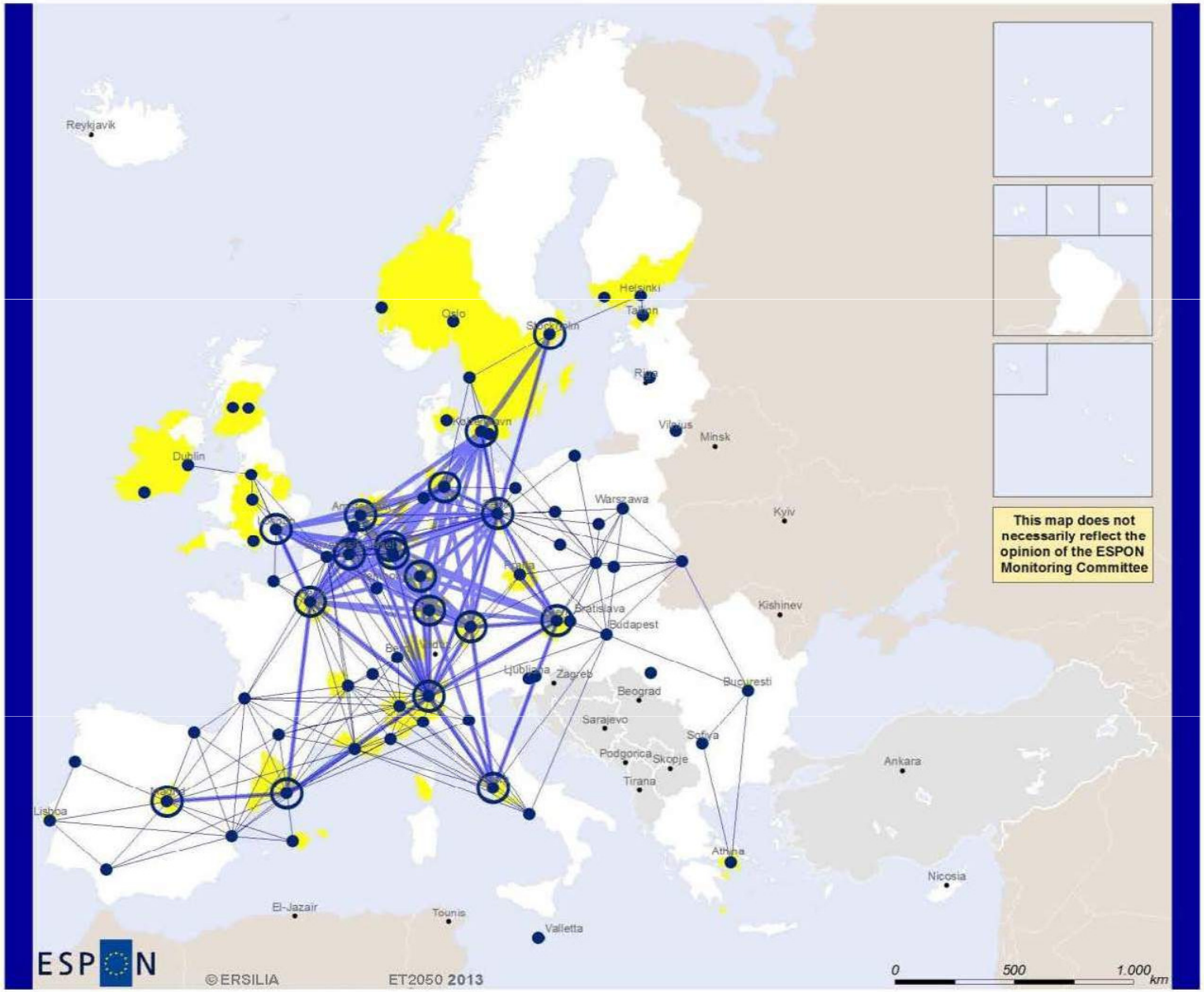
European Territorial Strategy A : Promotion of Global Cities (MEGAs)

A



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Source: MCRIT, 2013
Origin of data: SASI model, 2013
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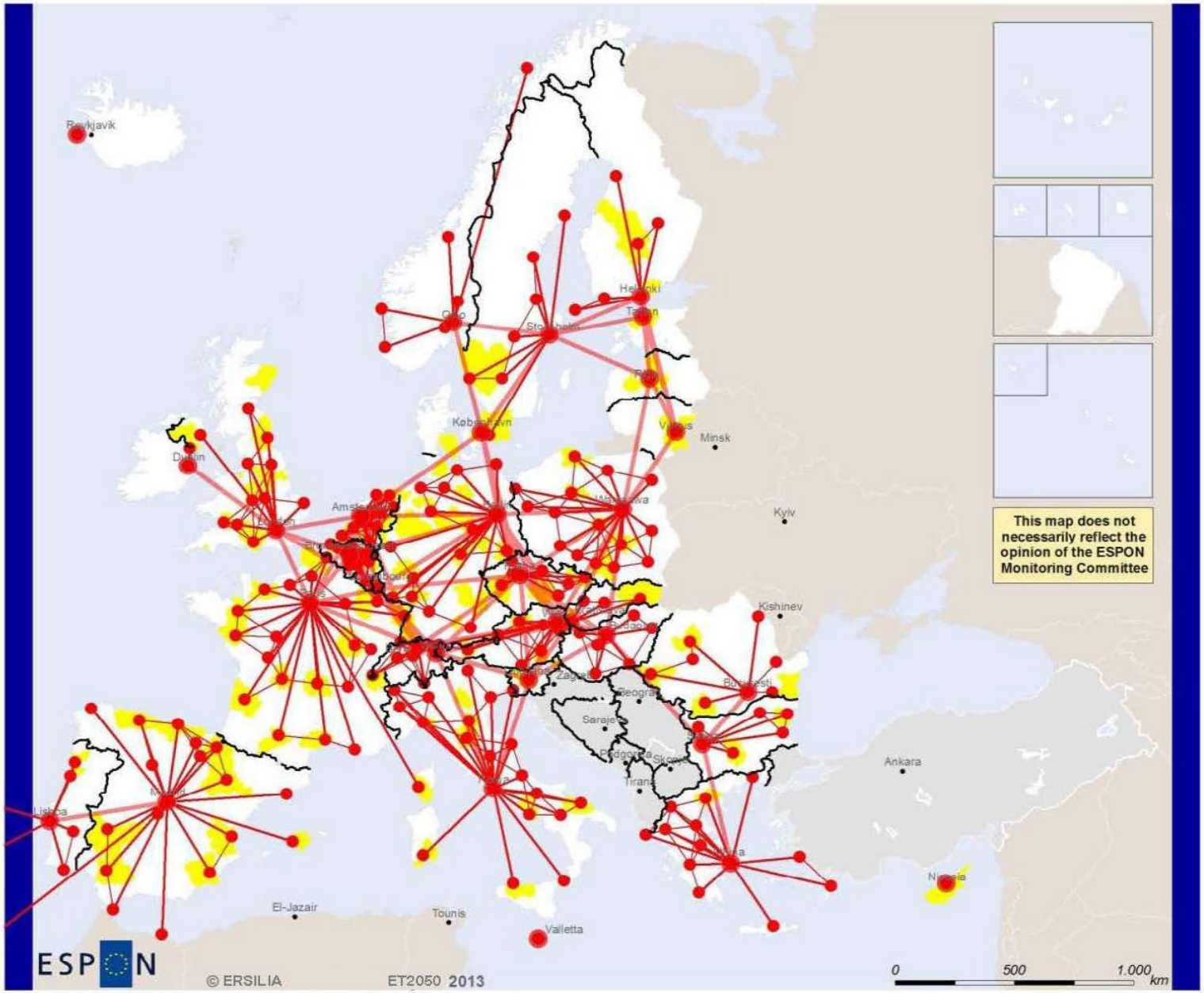
European Territorial Strategy B: Promotion of Networks of Cities

B



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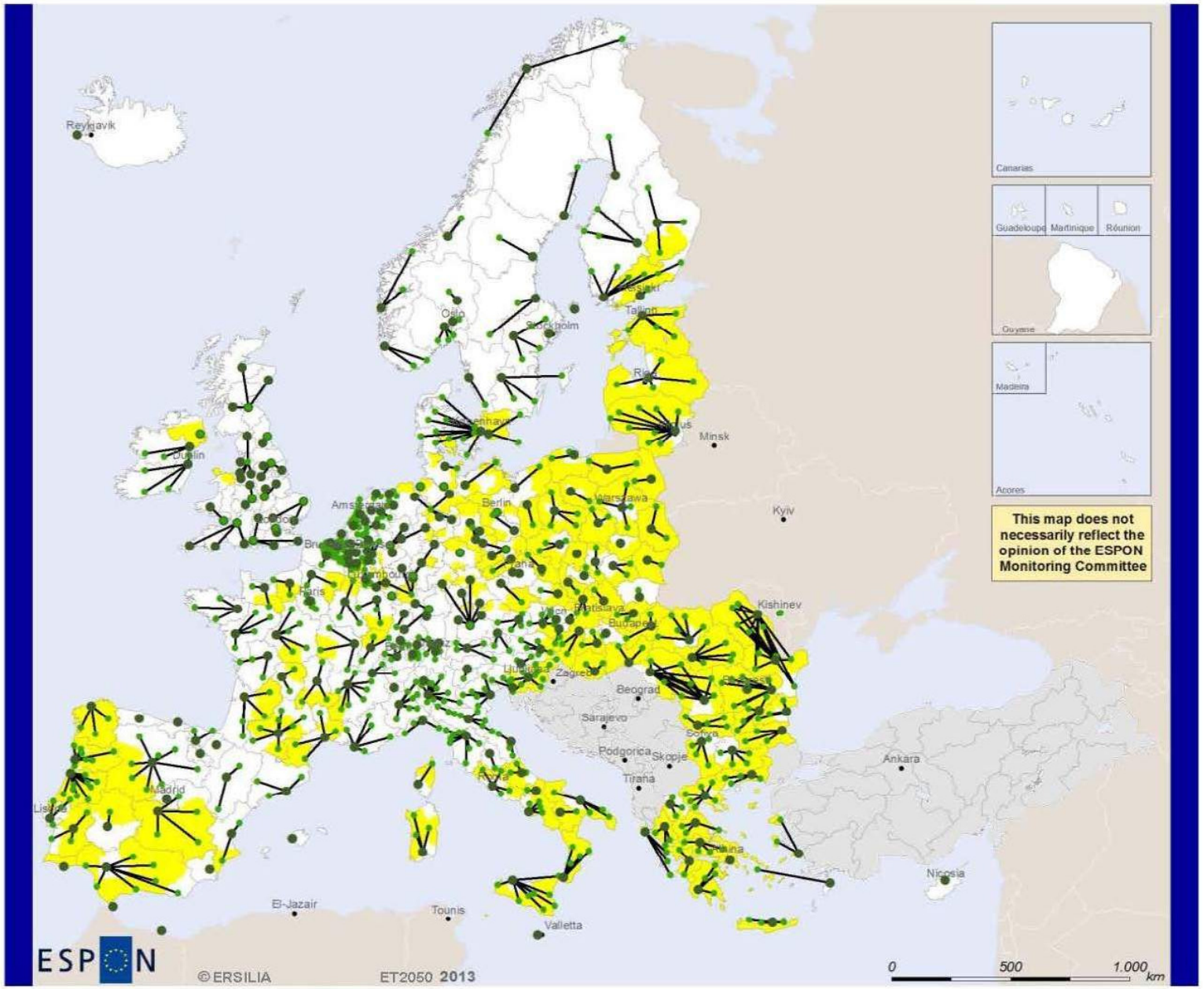
European Territorial Strategy C: Promotion of Rural and Peripheral Regions

C



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Exploratory Scenarios for 2010-2050

Spatial orientation of the scenarios	Extreme Framework conditions			
		1 Economic decline	2 Technologic progress	3 Energy/ Climate Costs
Promotion of global regions	A	A1	A2	A3
Promotion of large urban regions	B	B1	B2	B3
Promotion of rural and peripheral regions	C	C1	C2	C3

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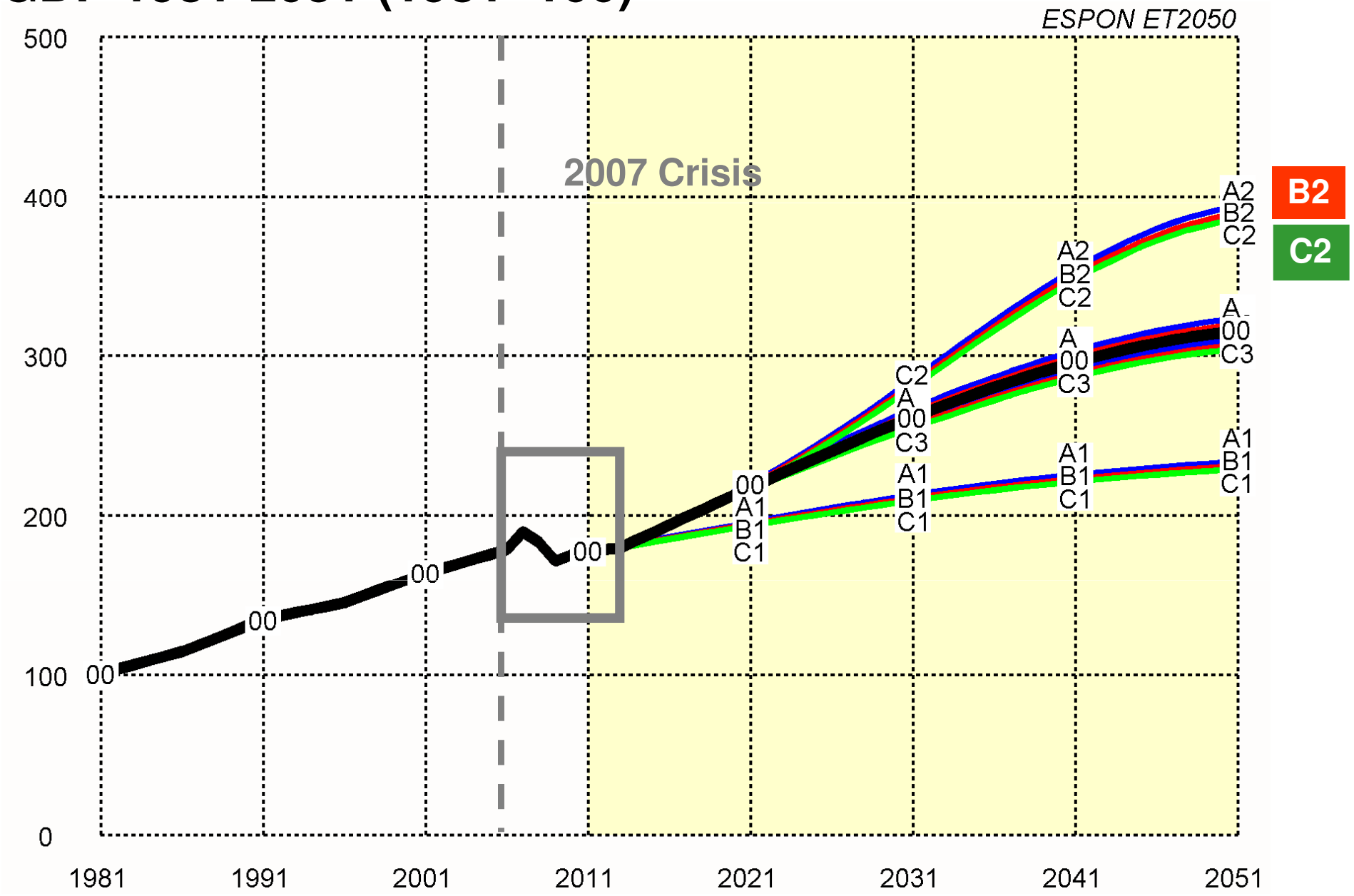
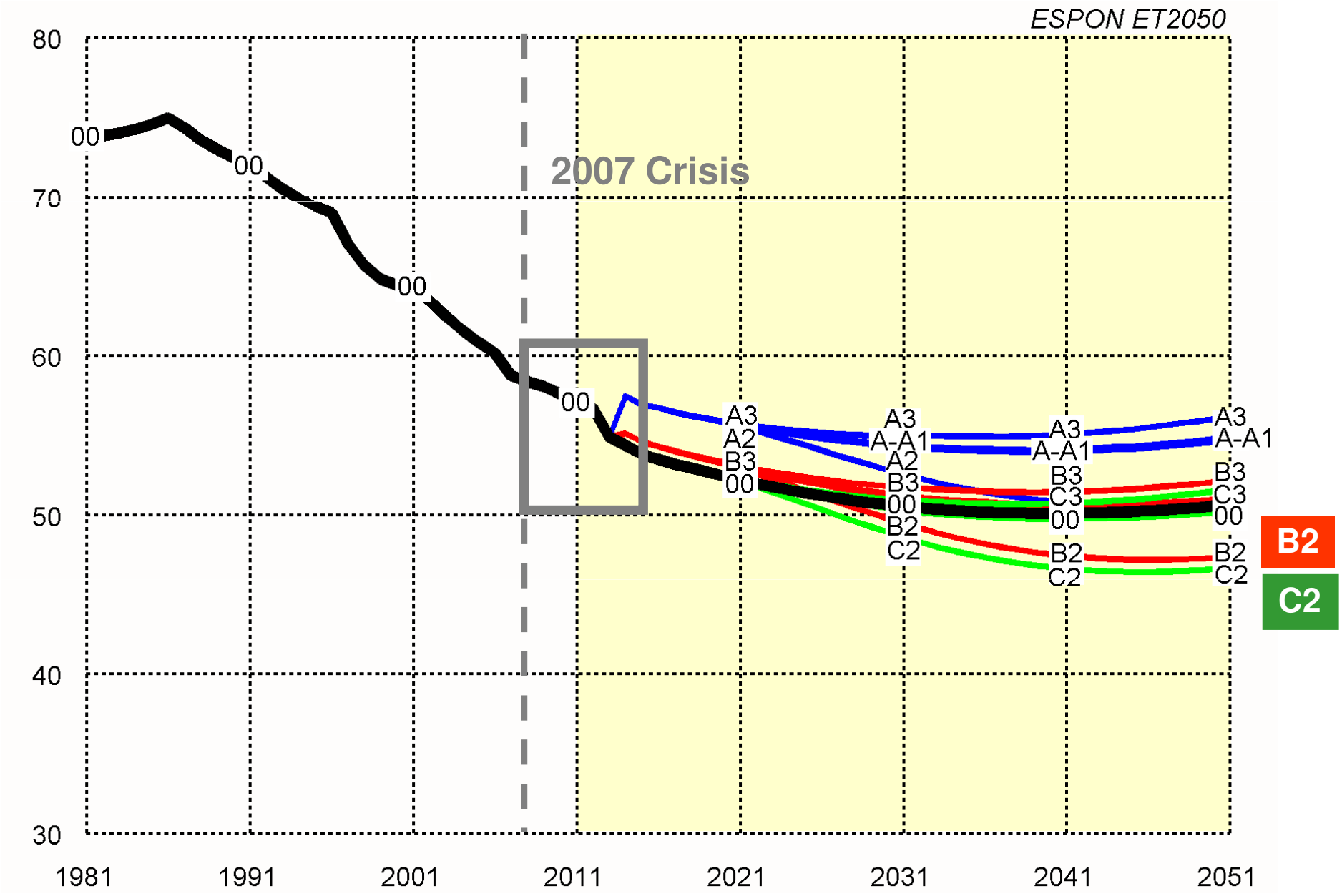
Regional redistribution (0,4% GDP) does not reduce growth...

GDP 1981-2051 (1981=100)

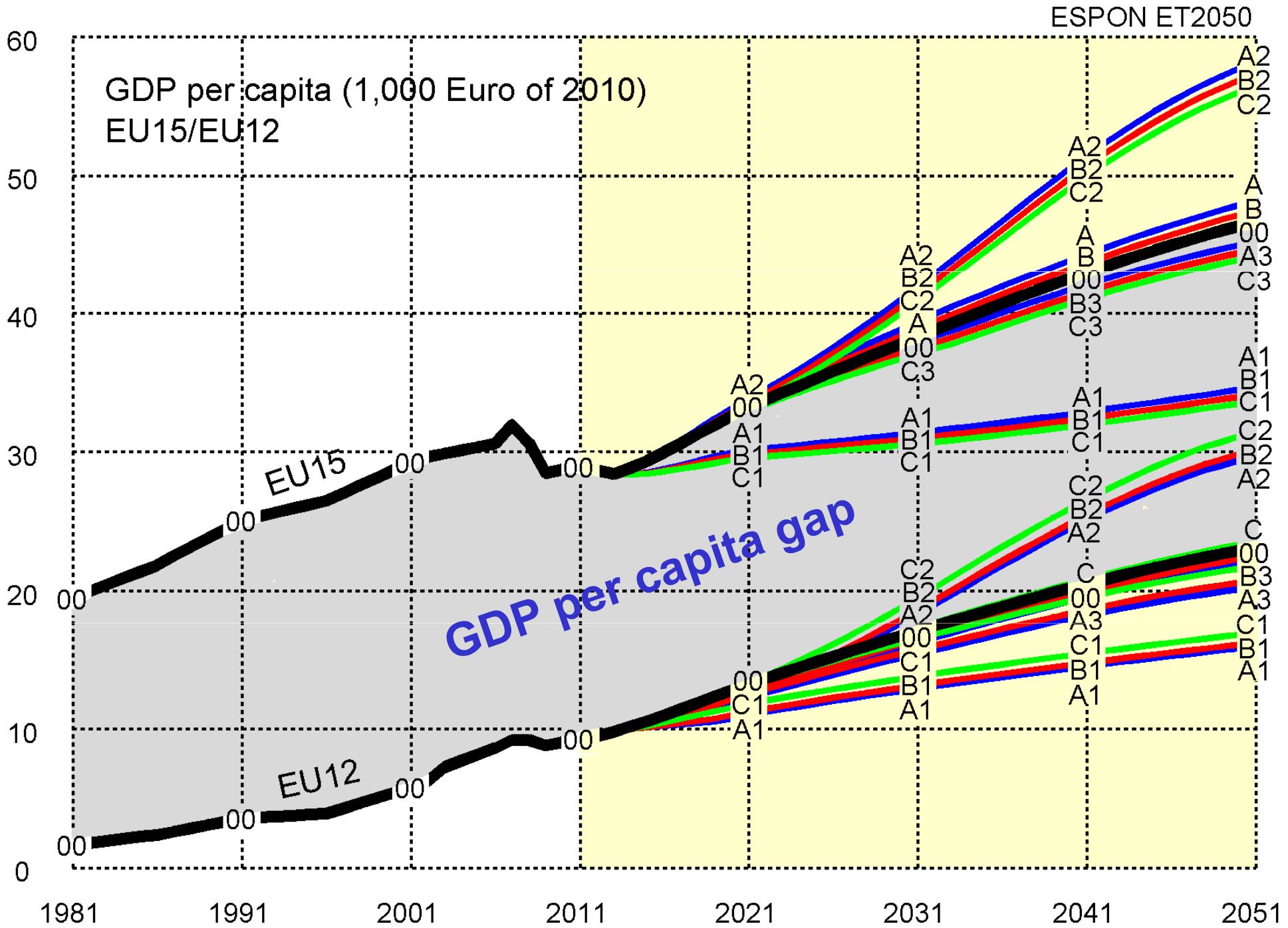


Regional redistribution improves Cohesion

Cohesion: Reduction of disparities in CoV of GDP/capita 1981-2051



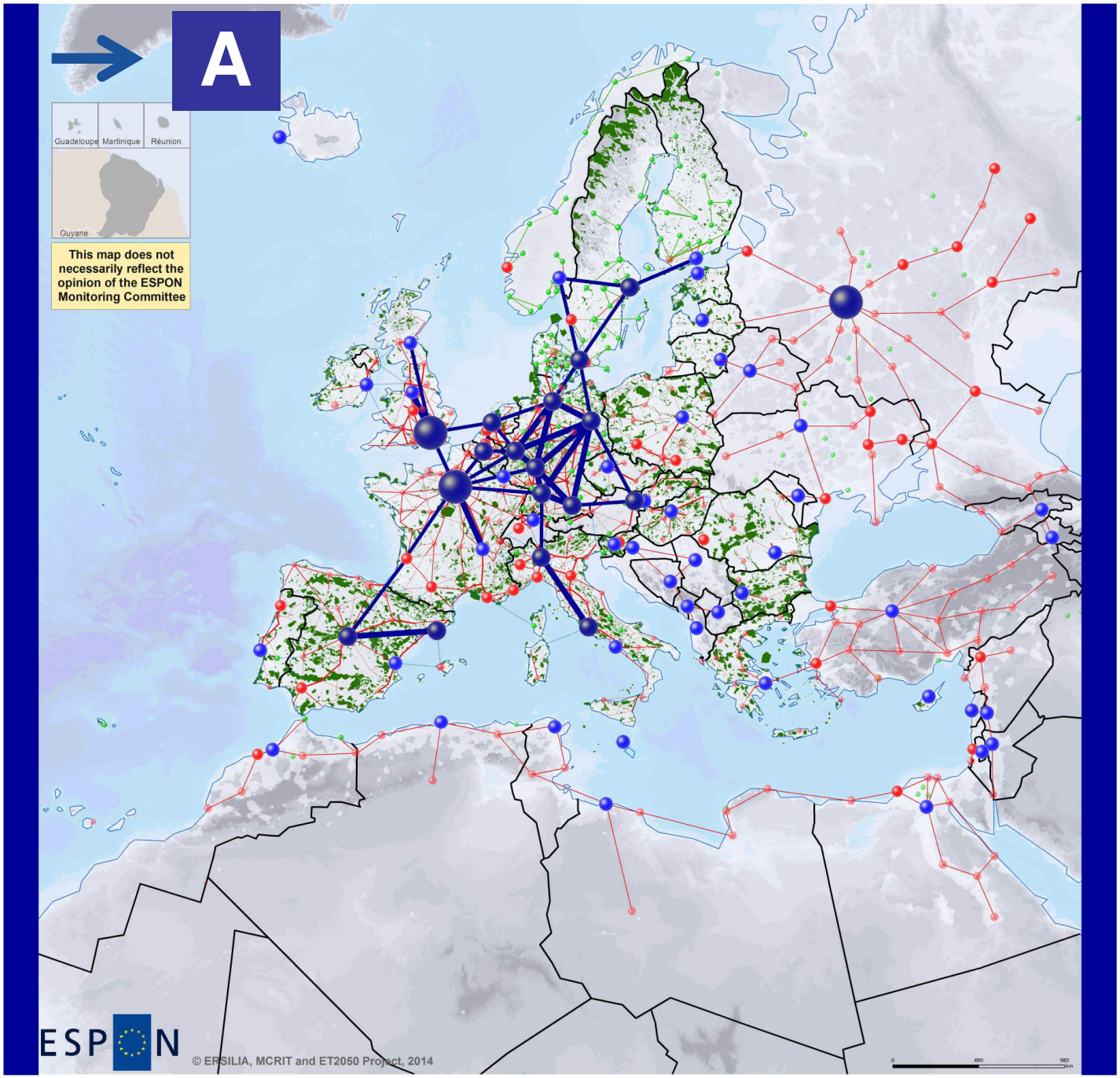
Absolute disparities will likely remain



Conclusions to build up a Vision towards 2050:

- Best Strategy: **More Polycentricity (A towards B and C)**
  - Promotion of secondary city/regions
  - Further decentralised, interconnected networks
  - Support to less developed regions

- Under framework assumption: **Technologic progress (V2)**
  - Increasing productivity
  - Energy costs maintained: successful transition towards a low carbon economy
  - Efficient land and resource management



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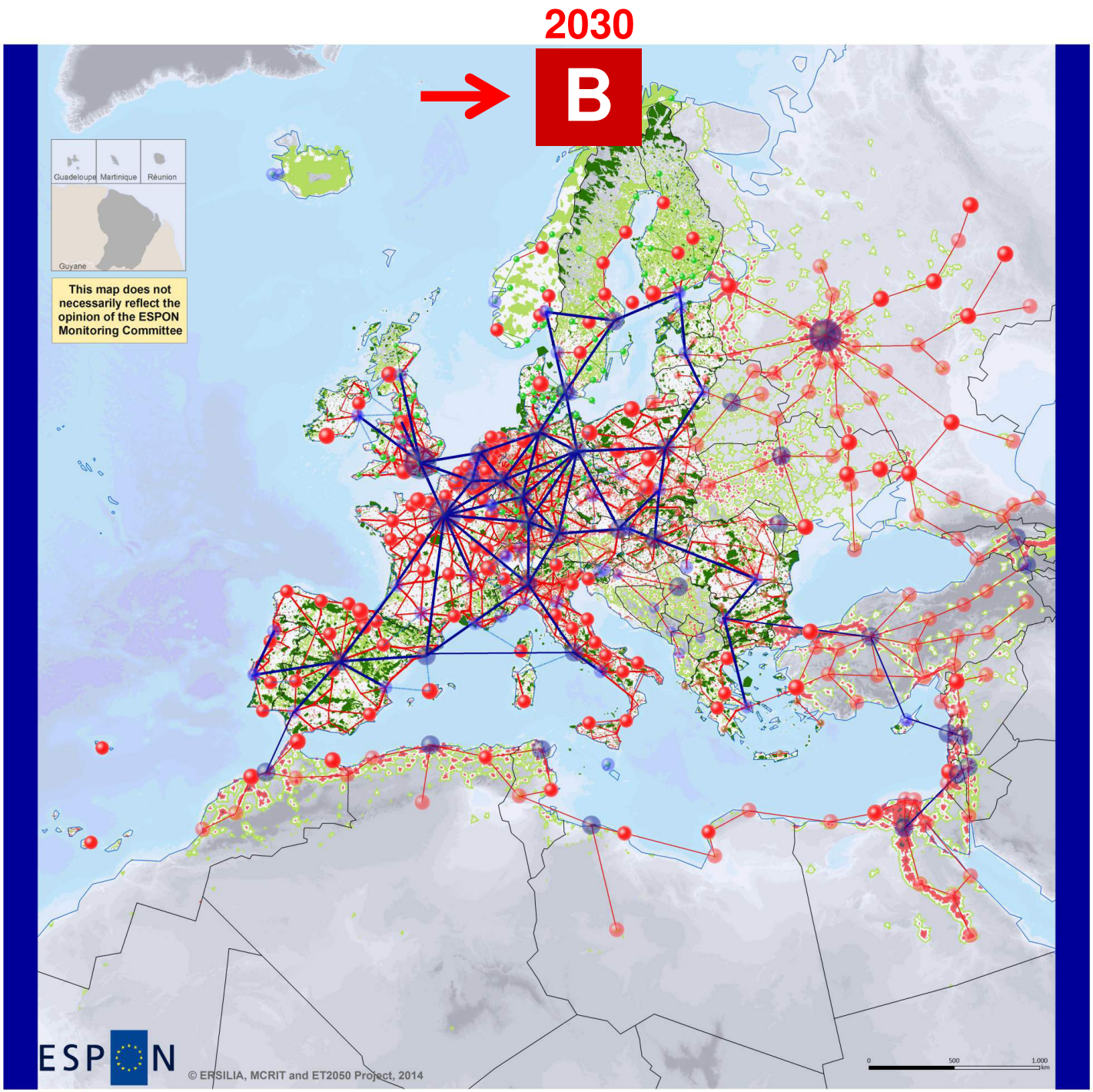

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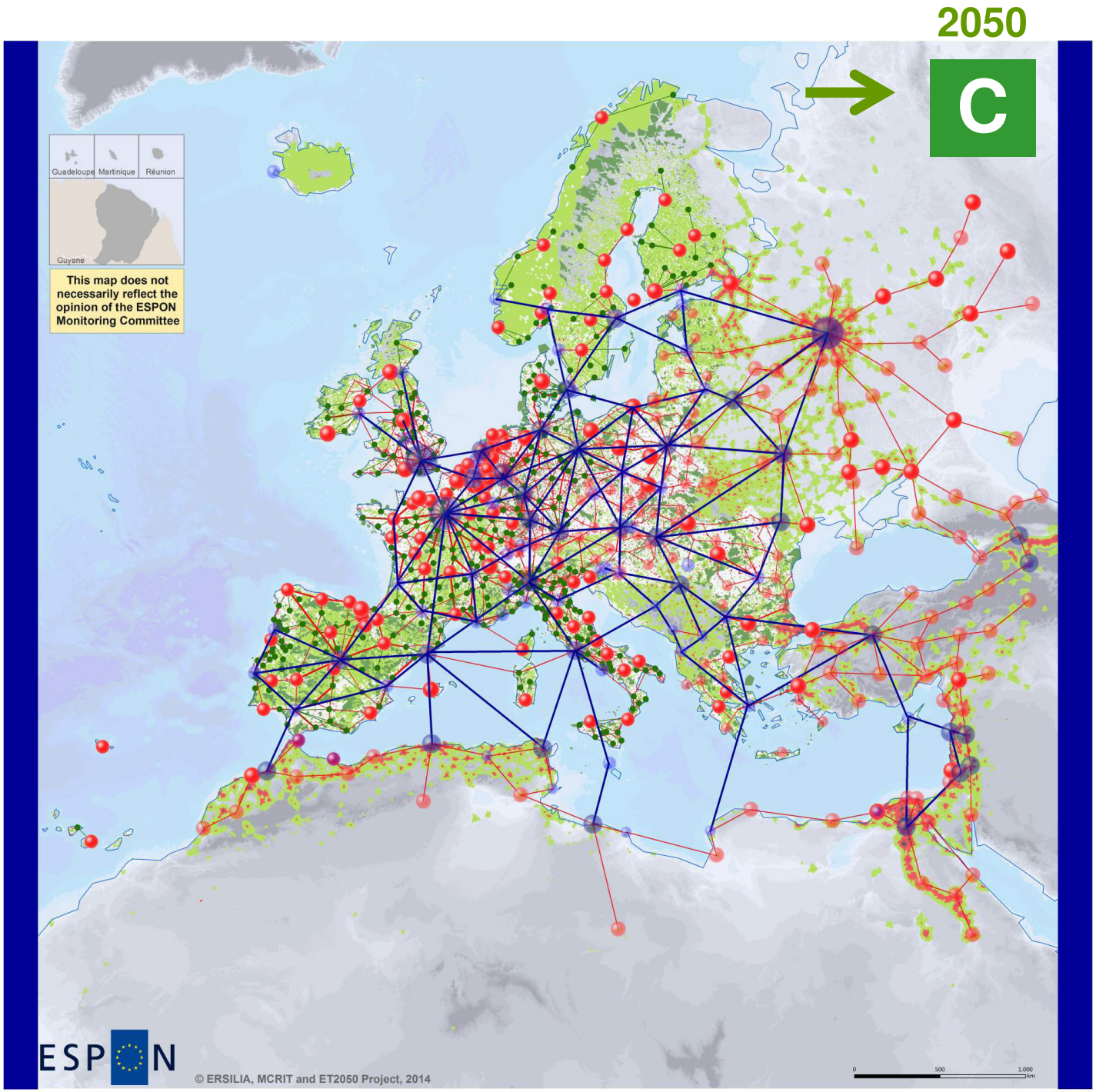

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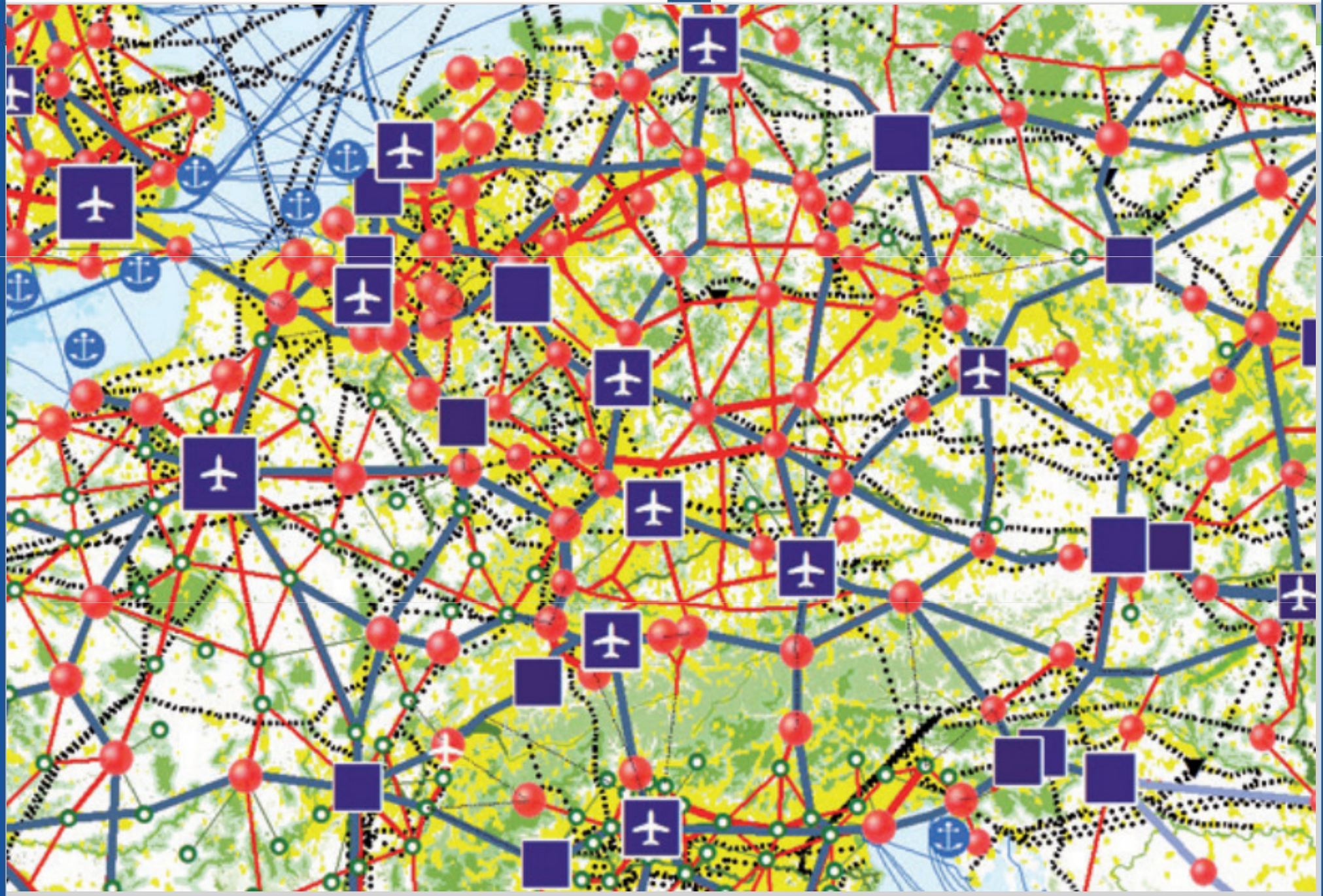

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Territorial Vision: ***Making Europe Open and Polycentric***

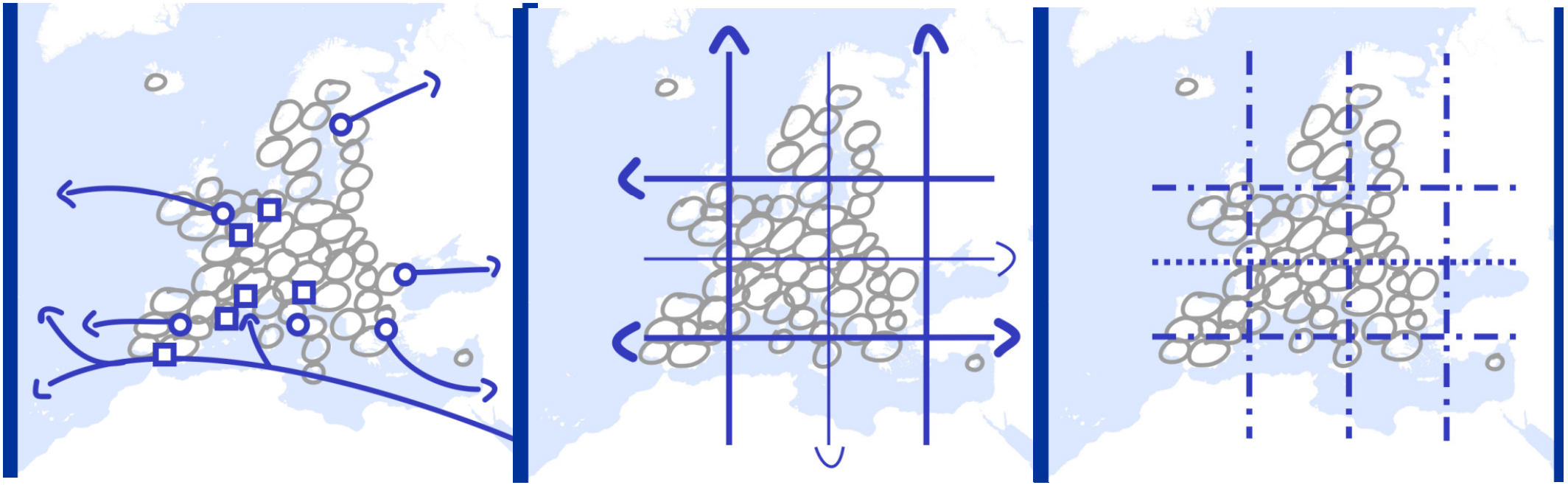
First Policy-aim: ***Openness***

- Connecting Europe globally
- Promoting co-development with Neighbouring regions

Second Policy-aim: ***Polycentricity***

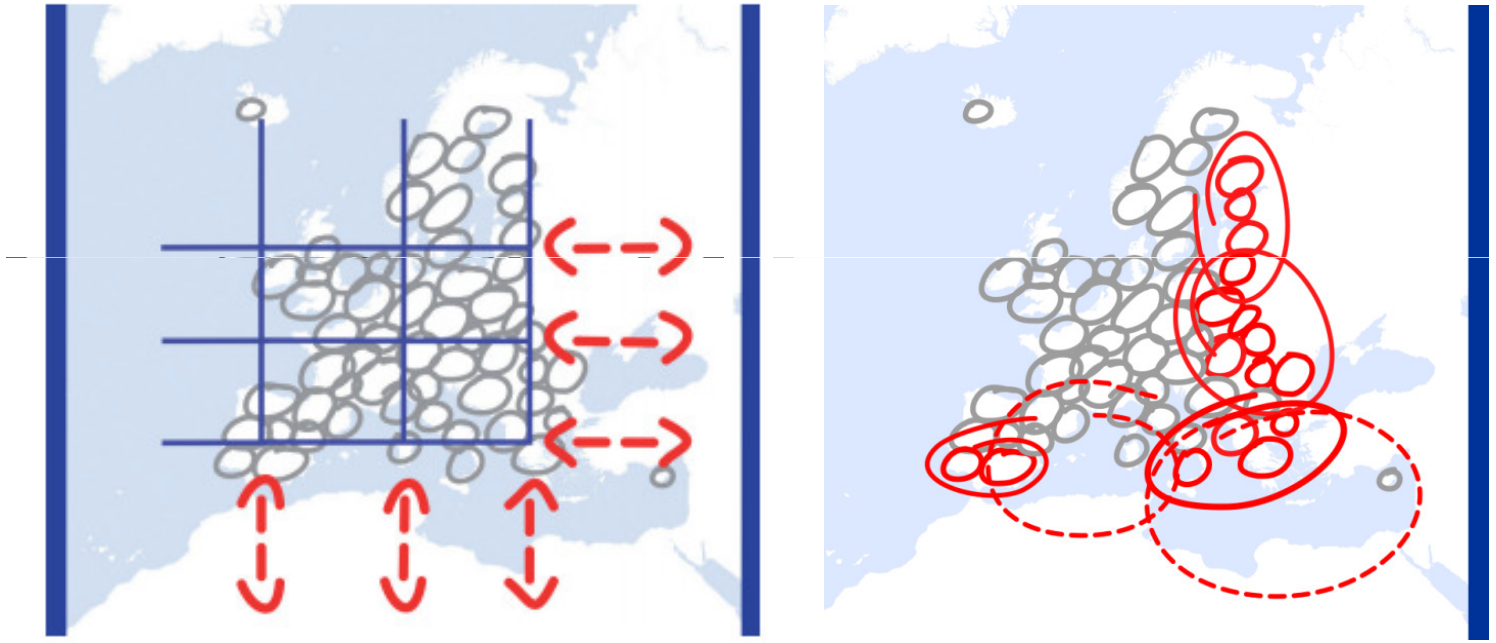
- Unleashing regional diversity and endogenous development
- Supporting a balanced urban structure
- Sustainable the management of natural and cultural assets

Connecting Europe globally



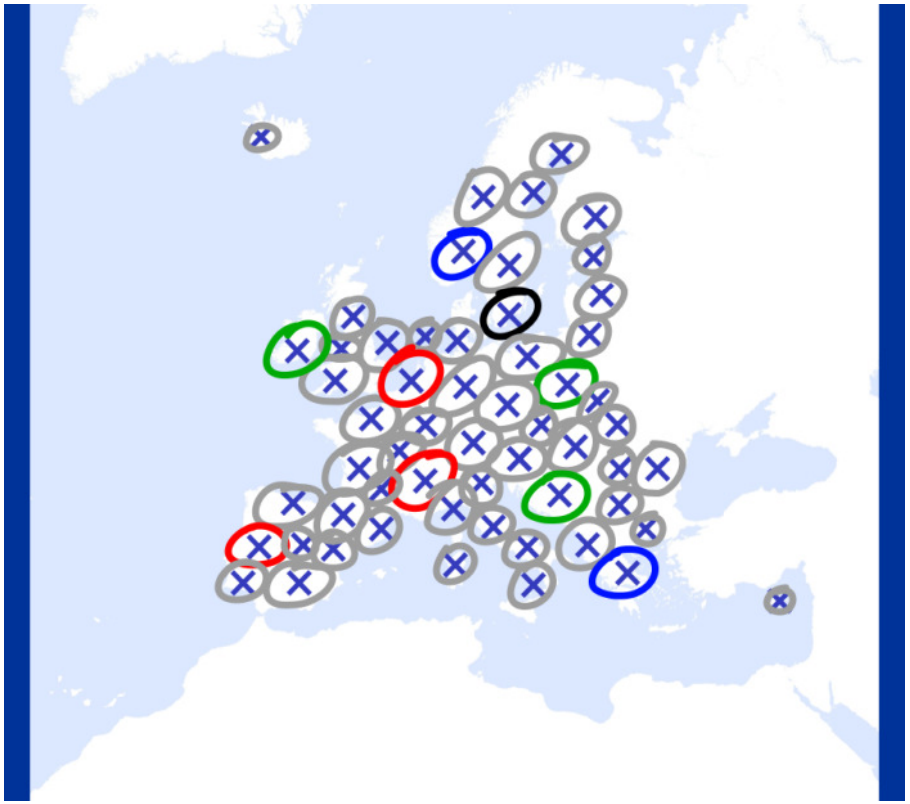
- Opening up European markets to global competition and promoting global sustainability
- Enhancing the efficiency of transport & telecommunication networks and decentralising EU intercontinental gateways
- Developing an integrated Trans-European Electric Grid and promoting energy efficiency and renewal energy sources

Promoting co-development with Neighbouring regions



- Linking Trans-European Networks with the Neighbouring countries' networks
- Supporting cross-border integrated development

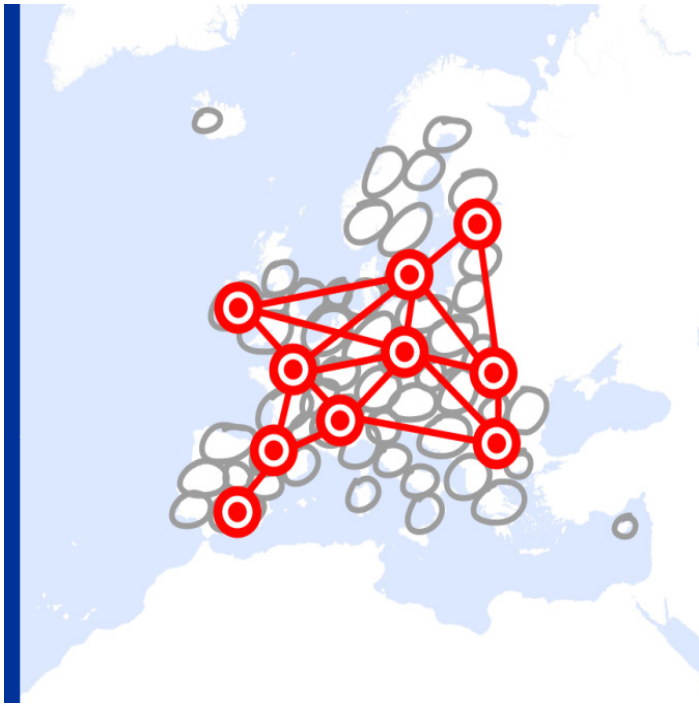
Unleashing regional diversity and endogenous development



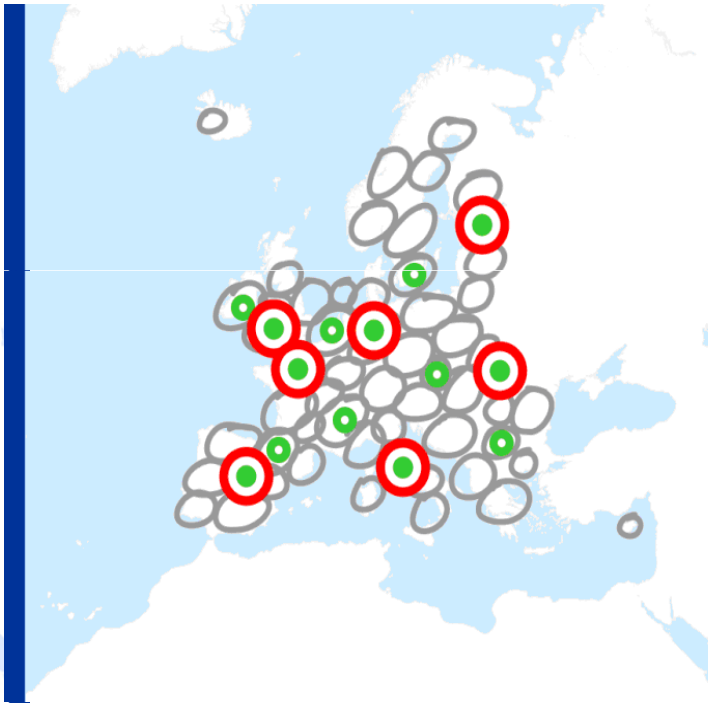
- **Sufficient accessibility to open up regional potentials.**

- **Universal access to services of general interest**

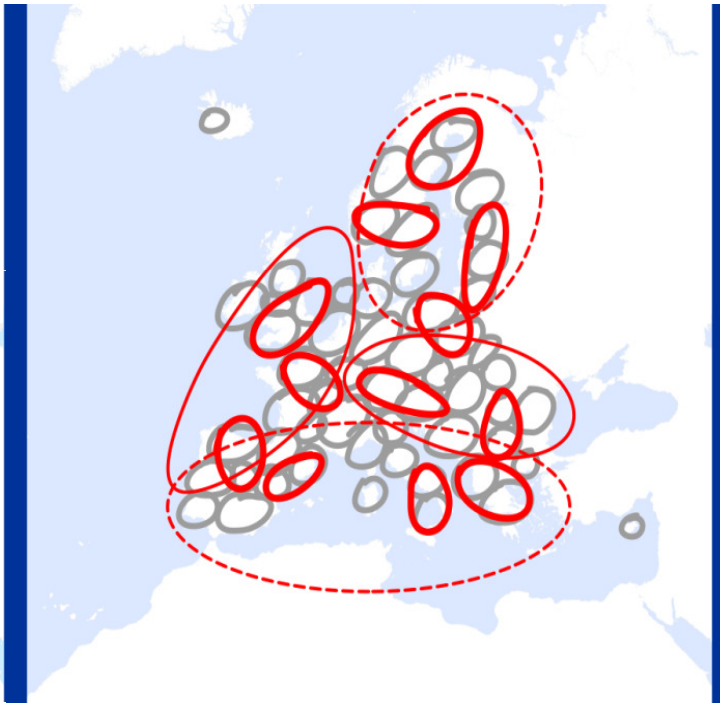
Supporting a balanced urban structure



- **Promoting secondary city/regions as engines of growth**

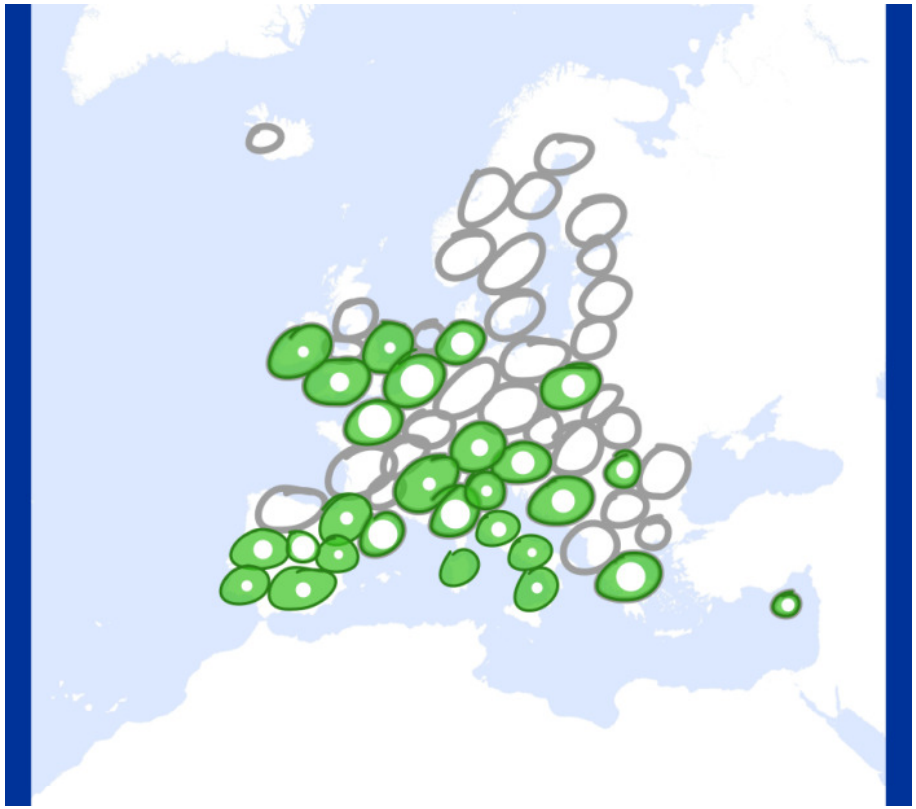


- **Smart and inclusive renewal of cities and neighborhoods**



- **Integration of functional urban regions**

Sustainable management of natural and cultural assets



- **Protecting strategic landscapes from urban sprawl and renaturalising cities**

- **Sustainable management of green infrastructures for biodiversity and resilience**

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Trends > Vision > **Policies**

A “European Spatial Development Policy”?

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A New Generation of Cohesion Policies

EU Cohesion Policy Reform

Reform of Structural and Cohesion funds and CAP Pillar II sensitive to macroeconomic conditions & adopting an integrated place-base approach
(Community-led development, integrated territorial investments, innovative urban actions…)

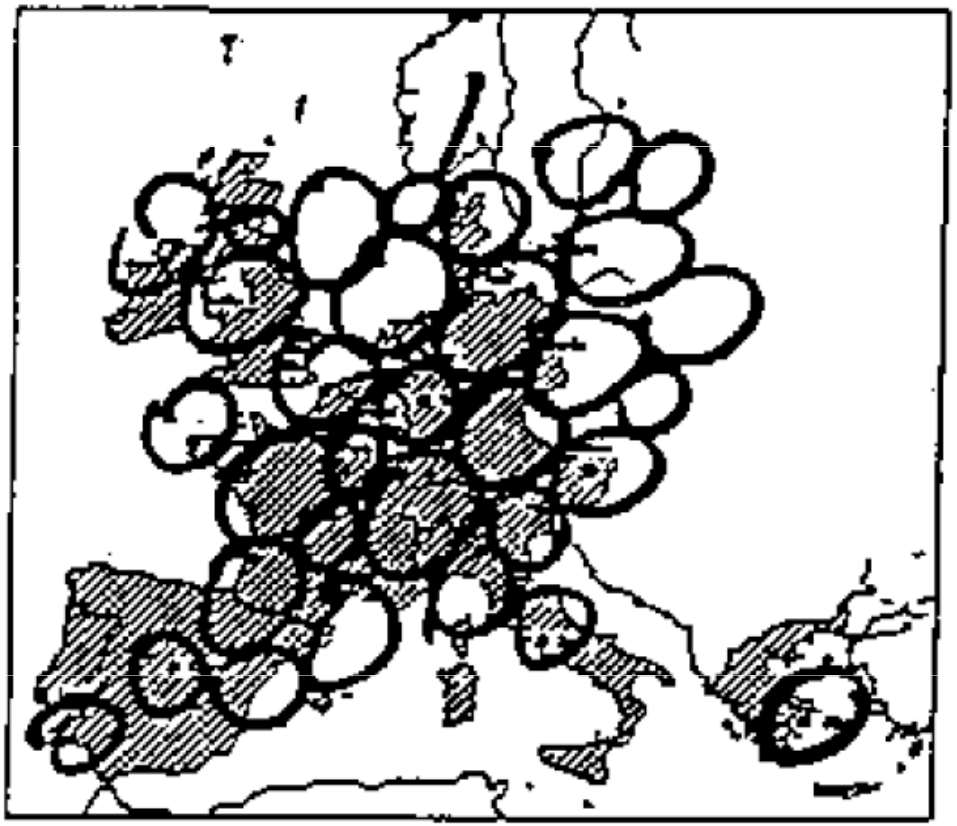
Framework Territorial Document
Territorial Conditions to support Sector policies

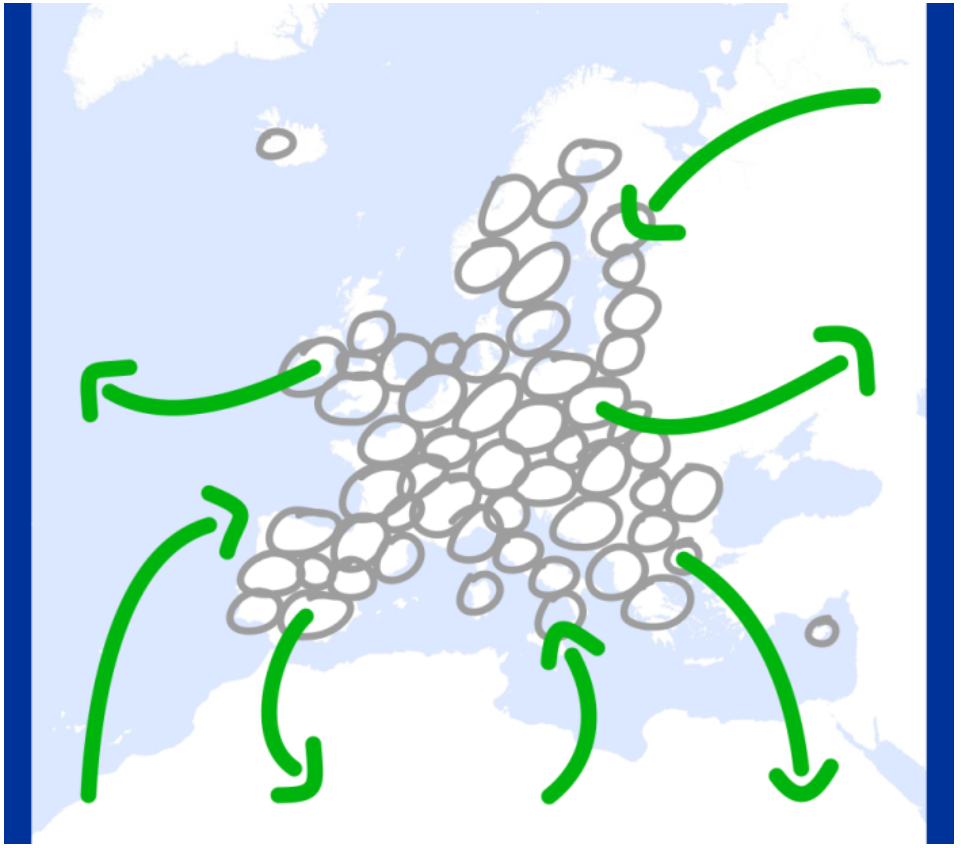
Territorial Shared Planning

Multi-level governance enabling territorial planning and cooperation at cross-border, transnational (e.g. Baltic, Danube, Adriatic…) and European scale.

Territorial Governance

1. Issue-driven and place-based rather than sector-driven approach.
2. Empowering local and regional institutions
3. Networked cooperation across borders.
4. Europeanization of Planning Practices
5. Building up European common stronger institutions.





“Too seek Europe, is to make it!

Europe exists through its search for the infinit

-and this is what I call adventure”

Zygmunt Bauman, “An Adventure called Europe”

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Further information:

www.espon.eu

www.et2050.eu (working documents)

Andreu Ulied (ulied@mcrit.com)

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