



# REGIONS 2020

An Assessment of Future Challenges for EU Regions

Regional Vulnerability to Global Challenges

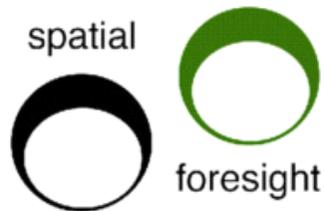


# Tasks: Regions 2020



- ▶ Regional vulnerabilities (NUTS 2) in the thematic fields:
  - Globalisation
  - Demographic change
  - Climate Change
  - Secure, sustainable and competitive energy
  - Social polarisation
  
- ▶ Show the effects of „multiple challenges“
  
- ▶ include the EU neighbourhood
  
- ▶ Show the effects of the economic crisis

## The Team (thematic responsibilities)



Globalisation



Demographic Change



Bundesamt  
für Bauwesen und  
Raumordnung

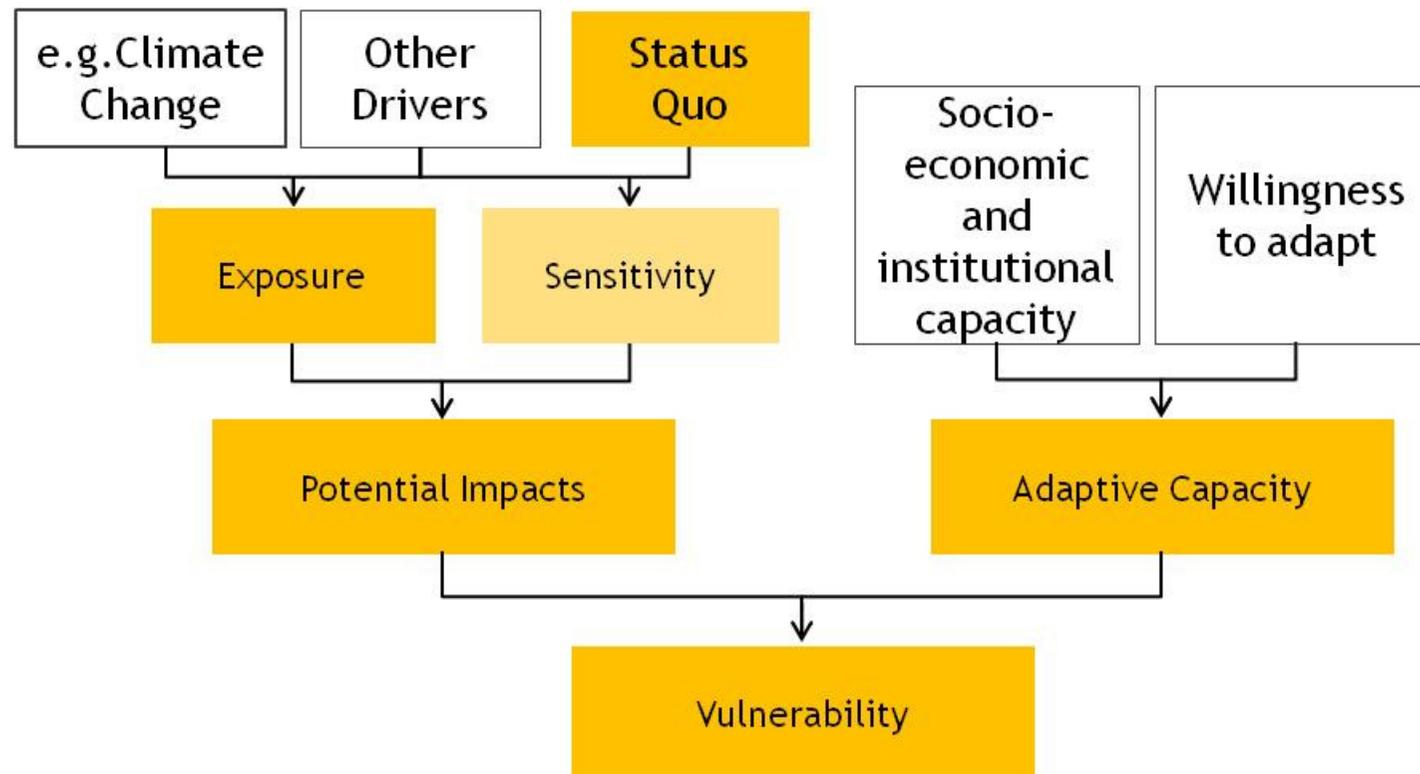


Secure, Sustainable and Competitive Energy



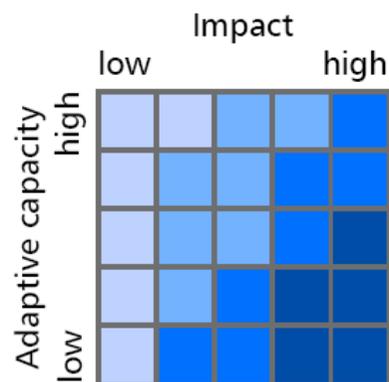
Climate Change

# The concept of vulnerability



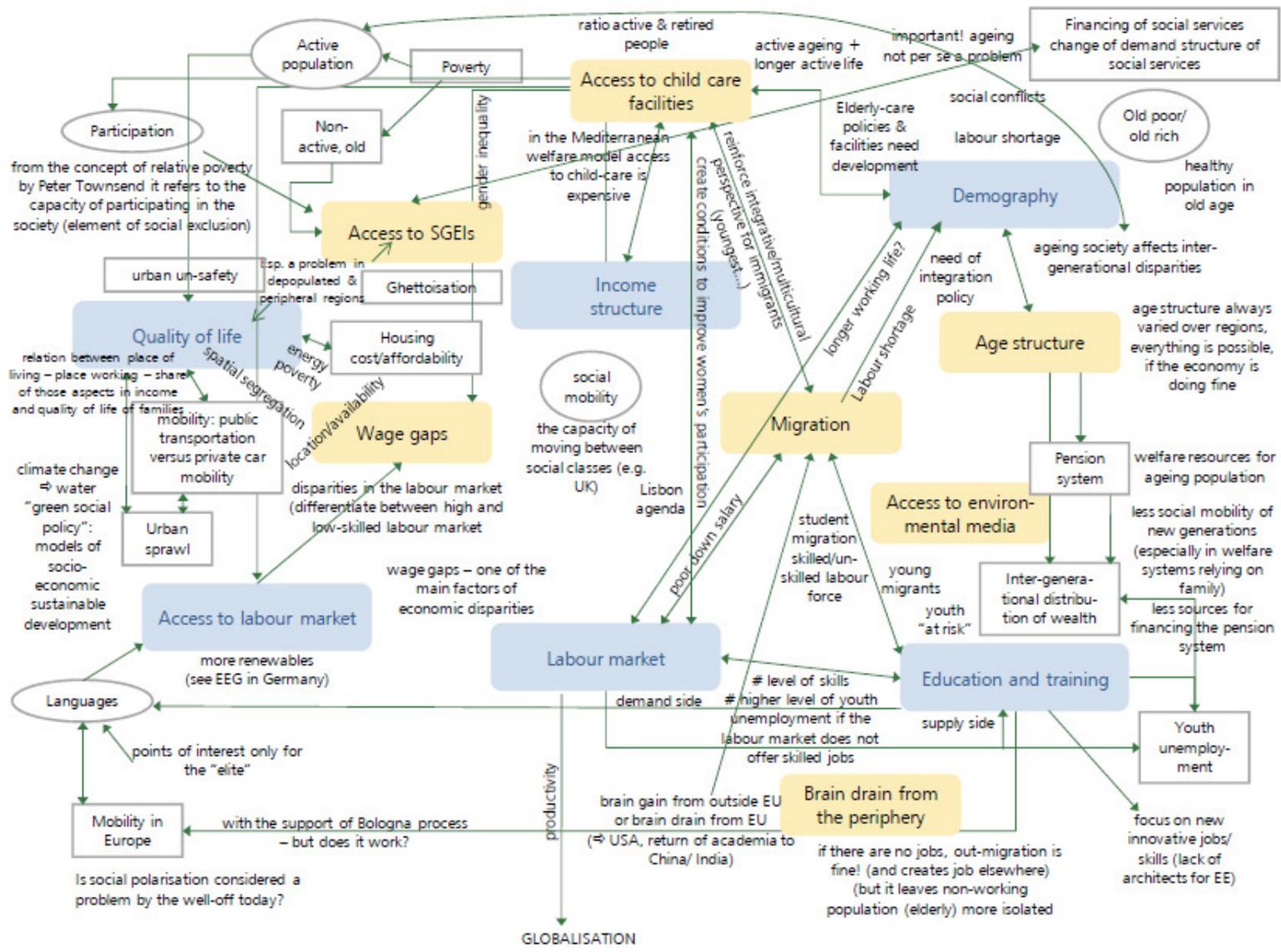
# Methodology

- ▶ Picturing the situation in Europe through normalised indicators
- ▶ Description of the impact by logical combinations
- ▶ Combination of impact and adaptive capacity with vulnerability matrix

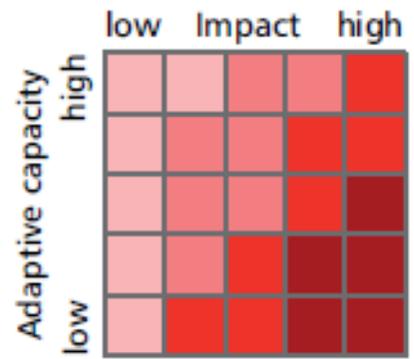
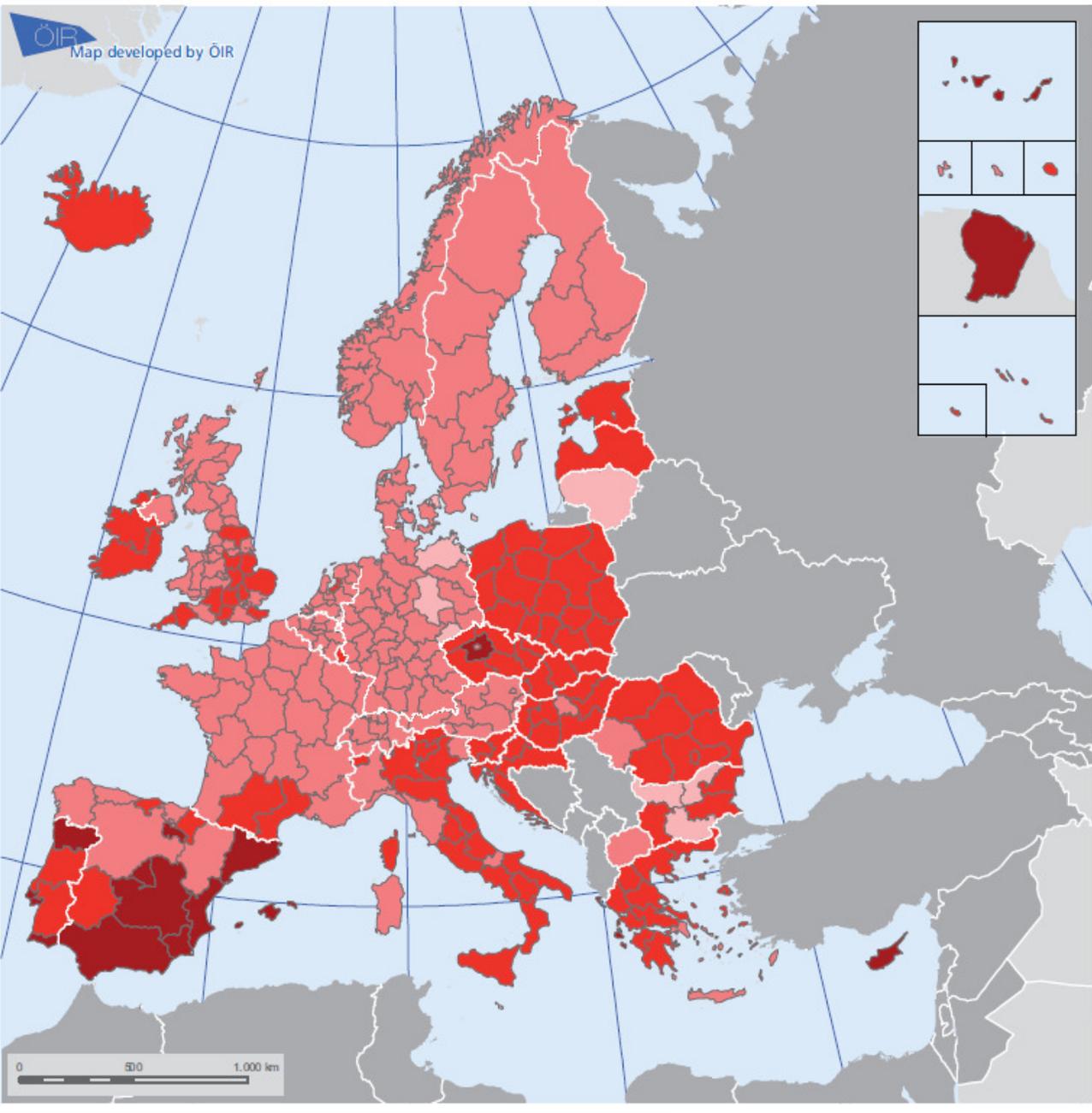


- ▶ Calculation of a cluster analysis for each challenge and all challenges in total

# Social Polarisation – the systemic overview



# Access to SGEIs - Vulnerability

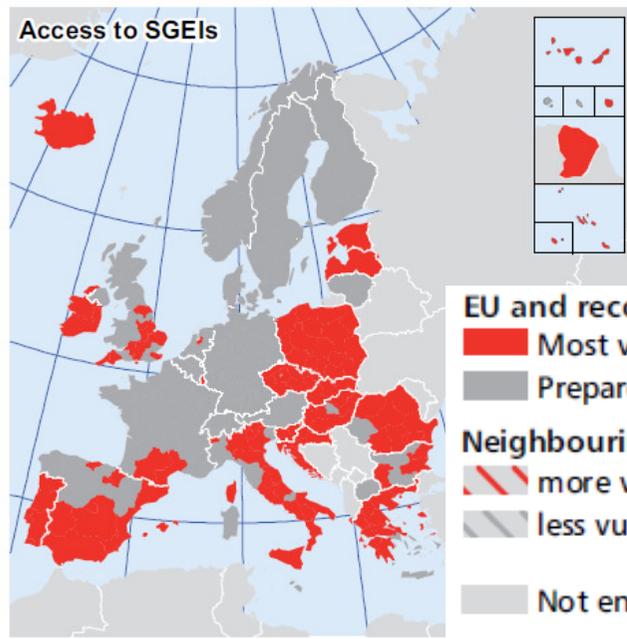
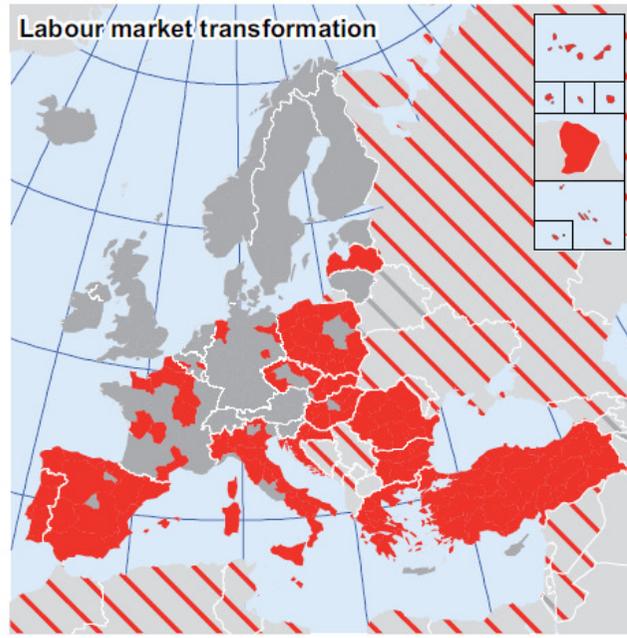
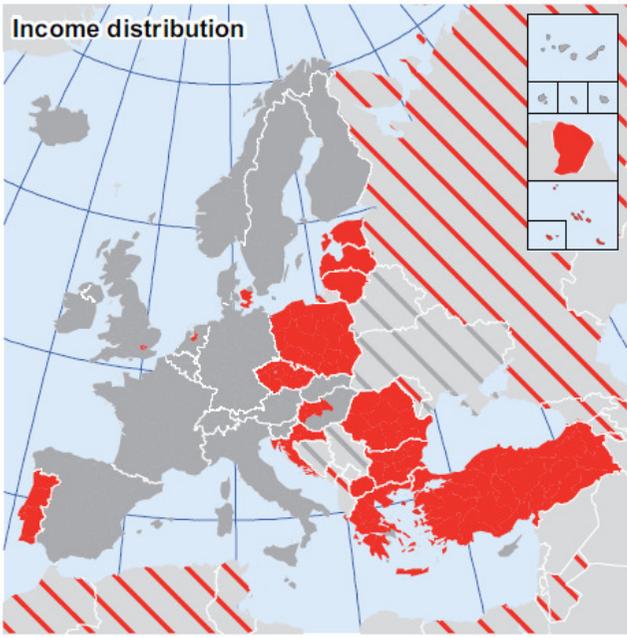


Indicators describing adaptive capacity:

- Health care expenditures per capita
- GDP per capita

- most vulnerable regions
- vulnerable regions
- prepared regions
- low impact regions
- not enough data

- Indicators describing exposure:
- Hospital beds / 100.000 capita
  - Physicians or doctors / 100.000 capita
  - Expenditures for elderly care in % of GDP
  - Road density
  - Children in pre-primary education
- Indicators describing sensitivity:
- Population development 2001-2007



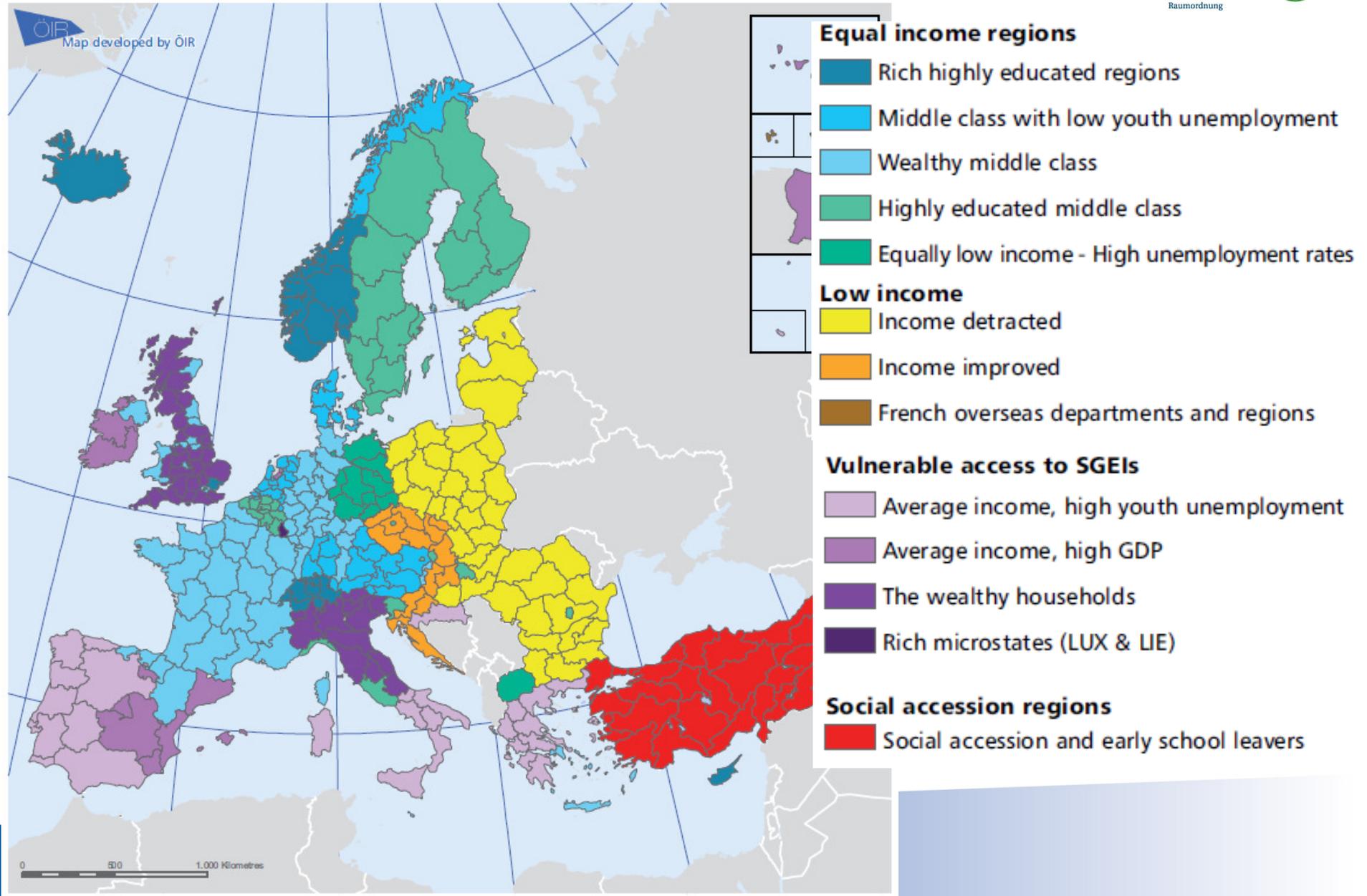
EU and recognised candidate countries, EFTA  
■ Most vulnerable regions and vulnerable regions  
■ Prepared regions  
Neighbouring countries (simplified methodology)  
▨ more vulnerable  
▨ less vulnerable  
■ Not enough data

# Social polarisation vulnerability at a glance

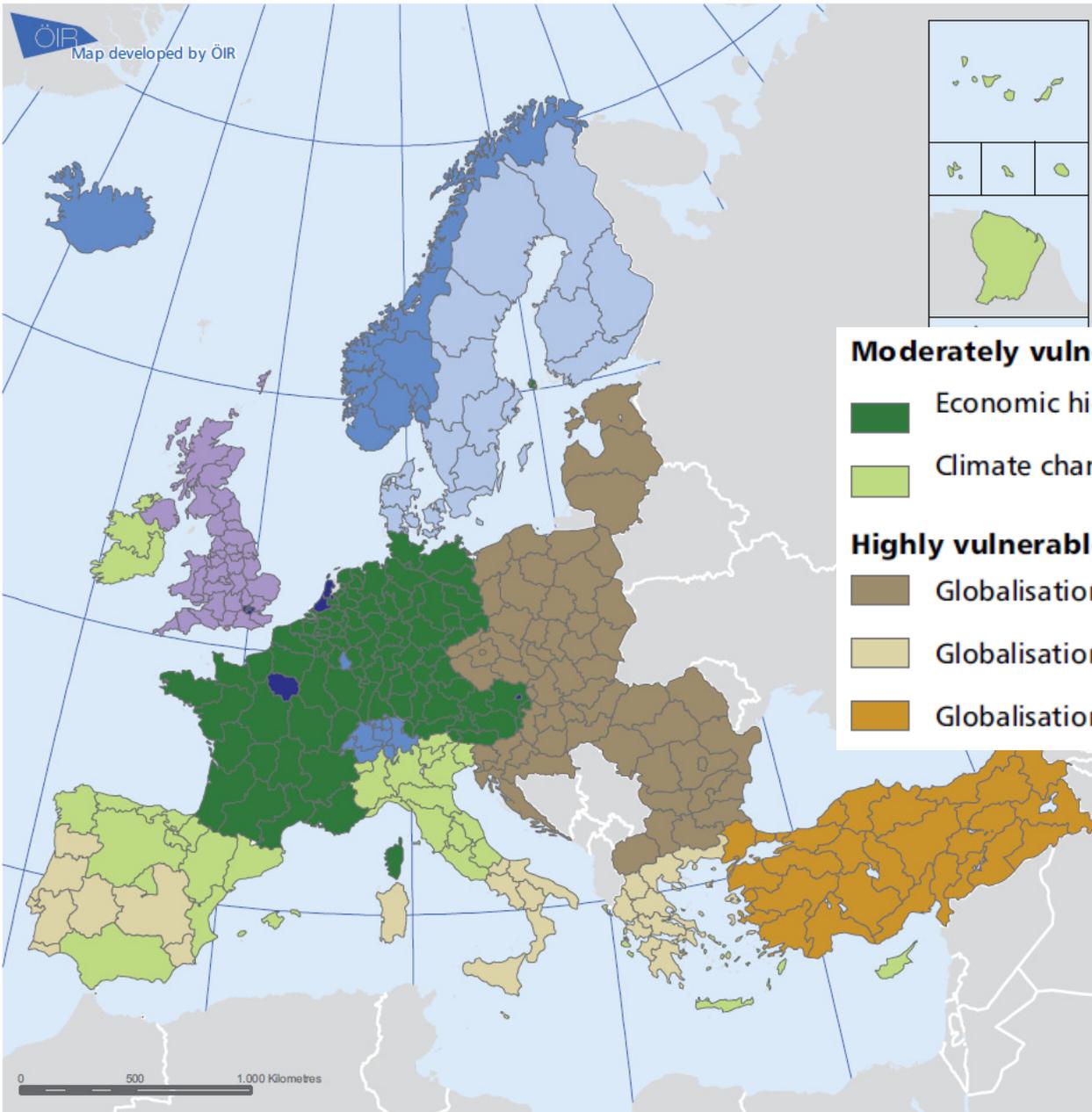
# Social Polarisation – Integrated vulnerability



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# Integrated vulnerability



- Barley vulnerable Europe**
- Global economic high performers
  - Social and economic high performers
  - Social and knowledge high performer:
  - UK
- Moderately vulnerable Europe**
- Economic high performers
  - Climate change challenged regions
- Highly vulnerable Europe**
- Globalisation and energy security challenged regions
  - Globalisation and climate change challenged
  - Globalisation and socially challenged regions

# European macro regions, challenges and growth strategies

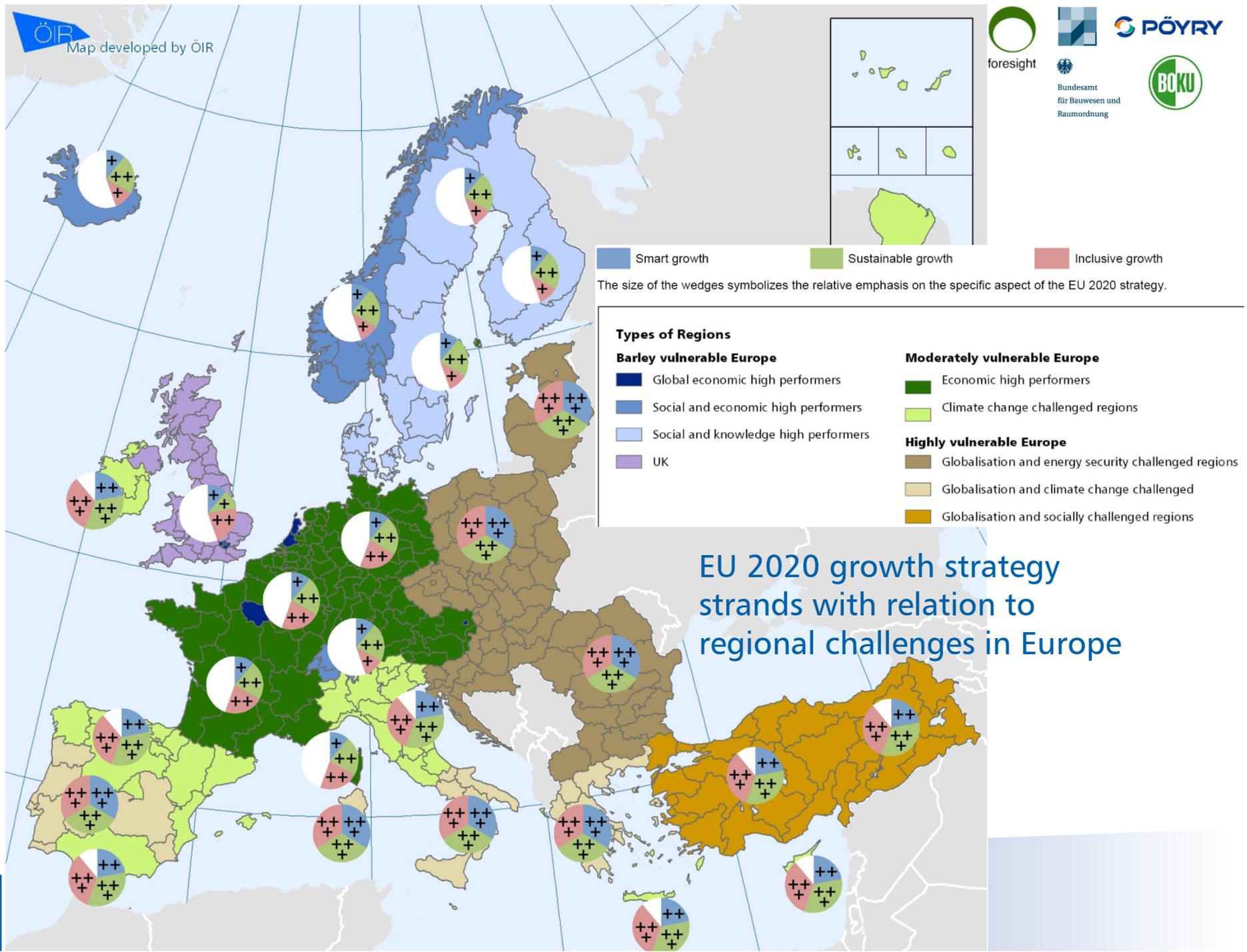


Challenges	Challenges					Growth strategies			growth strategies
	Globalisation	Demographic change	Climate change	Secure, sustainable and comp. energy	Social polarisation	Smart growth	Sustainable growth	Inclusive growth	
<b>Macro regions</b>									<b>Present cohesion policy objective</b>
Barely vulnerable – global economic high performers	+	+	++	+	+	+	++	++	Competitiveness and Employment Regions
Barely vulnerable – social and economic high performers	+	+	+	+	+	+	++	+	Competitiveness and Employment Regions (mostly third countries)
Barely vulnerable – social and knowledge high performers	++	+	+	+	+	+	++	+	Mostly Competitiveness and Employment Regions
Barely vulnerable UK	+	+	+	+	++	+	+	++	Mostly Competitiveness and Employment Regions
Moderately vulnerable – economic high performers	+	++	++	++	++	+	++	++	Mostly Competitiveness and Employment Regions
Moderately vulnerable – climate change challenged regions	++	++	+++	++	++	++	+++	+++	Mostly Competitiveness and Employment Regions
Highly vulnerable – globalisation and energy security challenged regions	+++	++	++	+++	++	+++	+++	+++	Mostly Convergence Regions
Highly vulnerable – globalisation and climate change challenged	+++	++	+++	++	++	+++	+++	+++	Mixed Convergence and Competitiveness and Employment Regions
Highly vulnerable – globalisation and socially challenged regions	+++	++	+++	+++	+++	++	+++	+++	Candidate country

**+** Barely challenged/basic emphasis on growth strategy

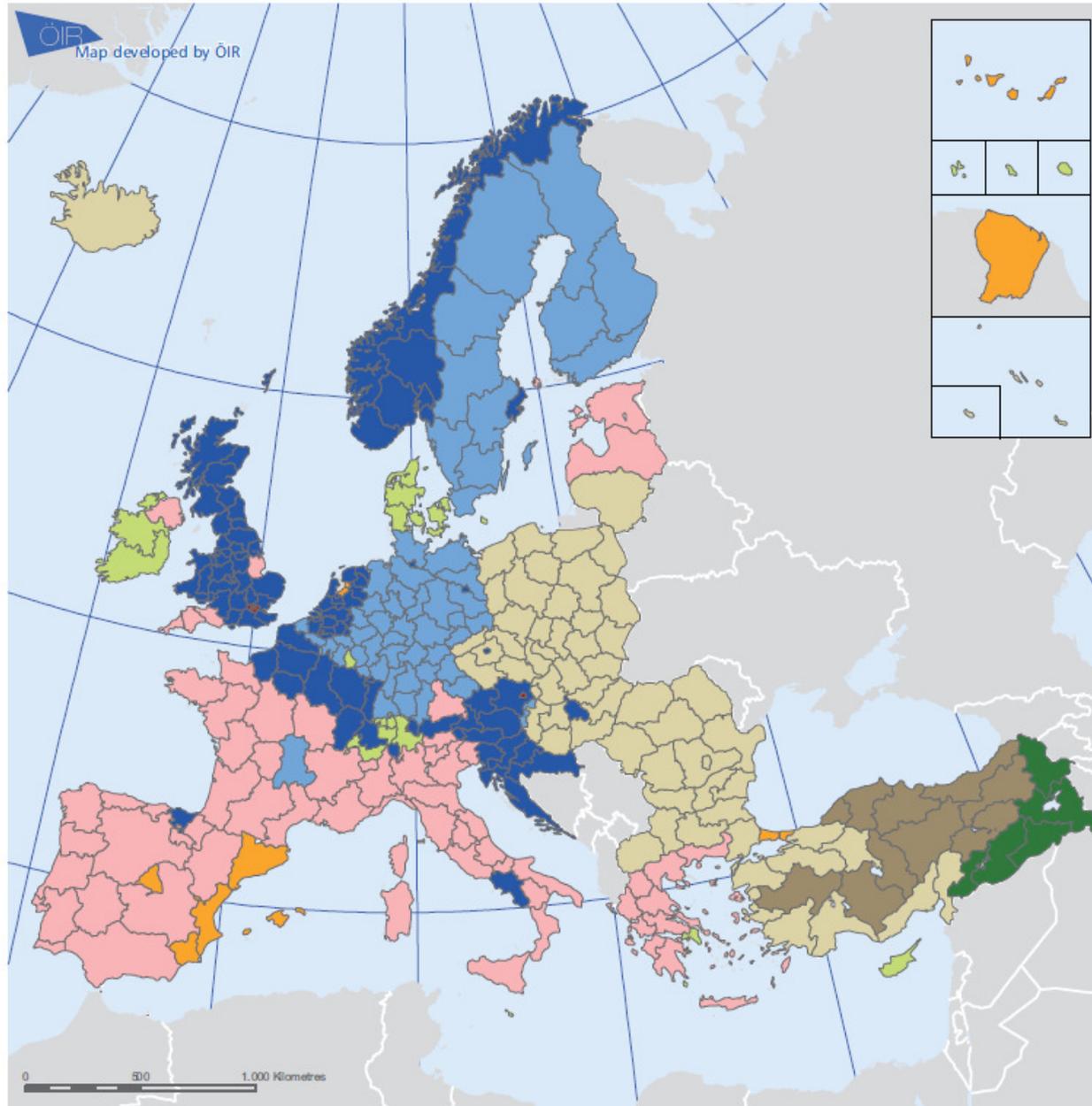
**++** Moderately challenge/average emphasis on growth strategy

**+++** Highly challenged/high emphasis on growth strategy



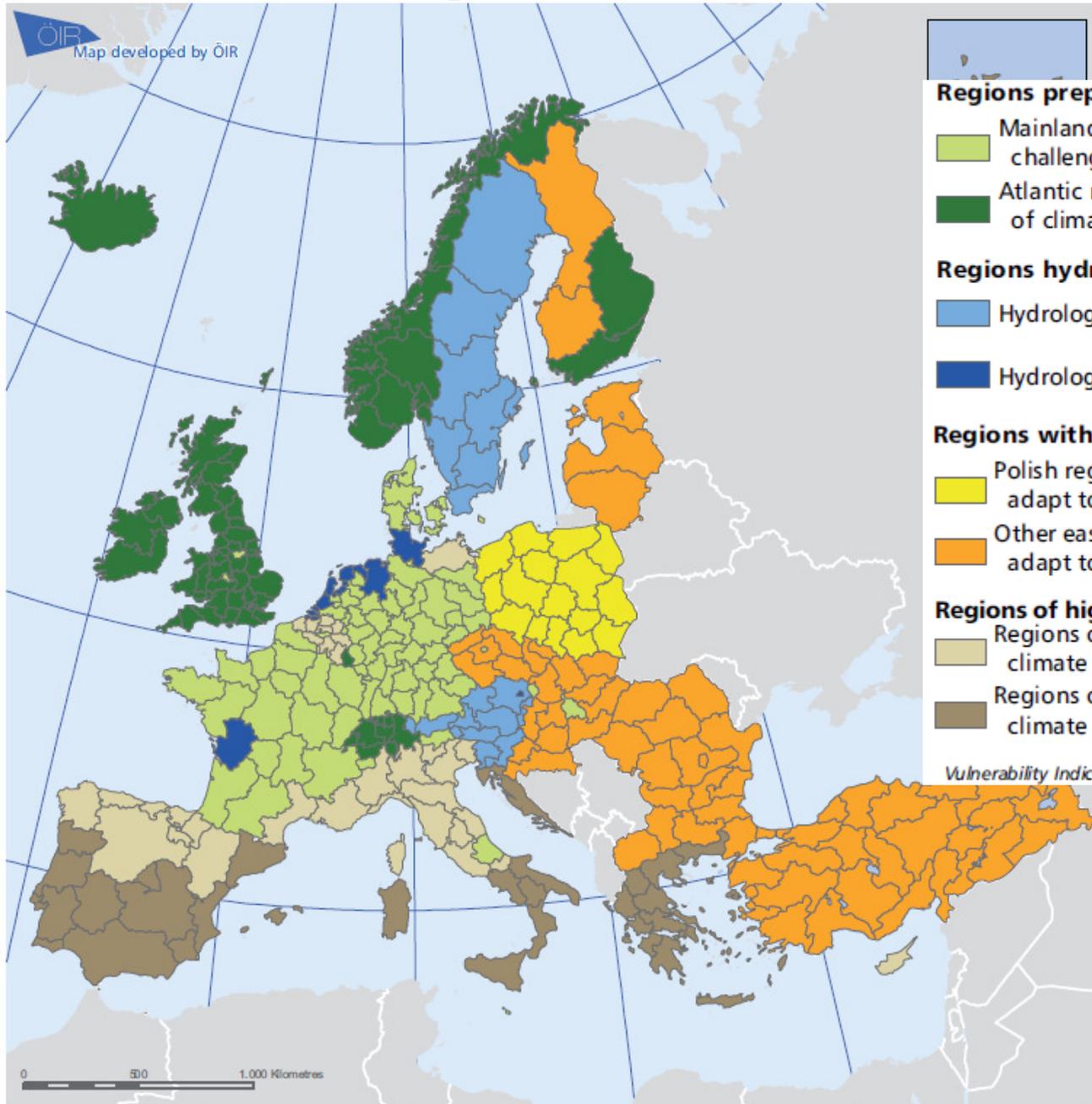
## EU 2020 growth strategy strands with relation to regional challenges in Europe

# Demographic change



- Demographic high-performers**
  - Western demographic high performer
  - Turkish demographic high performer
- Migration destinations**
  - Metropolitan immigration destinations
  - Moderate-growth immigration destinations
  - High-growth immigration destinations
- Balanced demographic regions**
  - Balanced demographic regions growing
  - Balanced demographic regions ageing
- Migration origins**
  - Eastern migration sources and Iceland
  - Central Turkish migration sources

# Climate Change



## Regions prepared for climate change

- Mainland regions prepared for the challenges of climate change
- Atlantic regions prepared for the challenges of climate change and Switzerland

## Regions hydrologically affected

- Hydrologically affected inland regions
- Hydrologically affected waterside regions

## Regions with deficits to adapt to climate change

- Polish regions with deficits to adapt to climate change
- Other eastern regions with deficits to adapt to climate change

## Regions of high multiple climate change vulnerability

- Regions of high multiple climate change vulnerability
- Regions of very high multiple climate change vulnerability

*Regional Challenges in the Perspective of 2020,*

*Vulnerability Indices Indicator data source Eurostat except where indicated*