



European Research Network on Sustainable Tourism

***The perspectives for regional
research and innovation in the
framework of Horizon 2020 and the
cohesion policy***

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The Knowledge Clusters and the Strategic Priorities of the Regional Research System

1. Life Sciences e Neurosciences
2. Robotics and Biorobotics
3. «Knowledge acceleration» advanced systems and ICT, Socio-Economic Sciences and Humanities
4. Photonics, Silicon Photonics, High Energy Physics
5. New Materials e Nanomaterials

- I. Priorities for a sustainable growth
 - a. **Cultural Heritage («Patrimonio Culturale»)**
 - b. Energy
 - c. Environment, Climate change, Agriculture e Forests
 - d. Space
 - e. Social Innovation (inclusive, innovative and secure societies)



Technological Poles and Districts

II. Innovation and Technological Transfer

Technological Districts

Renewable Energy District; Life Sciences District; Sustainable Cities and Cultural Heritage District; Rail Technologies and Transport; ICT, Robotics and Telecom

Poles

Nanotechnologies, optoelectronics e aerospace, fashion, paper, stone, furniture and furnishings, nautics

References: *Key Enabling Technologies (KET)* -> nanotechnologies, micro/nanoelectronics, industrial biotechnologies, photonics, advanced materials, advanced manufacturing technologies *European Commission DG Enterprise*



Cultural Heritage

Alcuni elementi legati ai beni culturali:

1. **Ricerca**: applicazione di nuove tecnologie e sperimentazioni di avanguardia, infrastrutture europee
2. **Innovazione**: le industrie che sviluppano nuove soluzioni per il recupero, presentazione (mostre), case editrici (e-book, etc.), Polo tecnologico e laboratori
3. **Sviluppo** delle aree legate alle ricerche storiche, archeologiche, aspetti economici-sociali ed educativi legati ai beni culturali (elementi museali)
4. **Turismo** e progetti nel settore dei **trasporti**
5. Programmi di **cooperazione** con altri paesi non EU



Horizon 2020

http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-documents

1. International cooperation and ERA (European Research Area)
2. **Eccellence Research:**
 - a. ERC and Marie Curie
 - b. FET(Future Emerging Tech) and Research Infrastructure
3. **Innovation** to support Societal Challenges:
 - a. Improving the lifelong health and wellbeing;
 - b. Bioeconomy, safe and high quality food
 - c. Energy (clean, safe, reliable)
 - d. Transport (integrated and «green»)
 - e. Resource efficiency, raw material and natural resources
 - f. Inclusive, innovative and secure societies (ECO and SSH)



Horizon 2020

4. Development of **industrial competitiveness and leadership**

a. (Key) Enabling and industrial Technologies

http://ec.europa.eu/enterprise/sectors/ict/files/kets/hlg_report_final_en.pdf

i. ICT

ii. Nanotechnologies

iii. Advanced Materials

iv. Biotech

v. Advanced Manufacturing and Processing

vi. Space

b. Risk finance, (-> COSME programme)

c. SME

Sustainable development: 60% of the total budget

Climate actions: 35% of the total budget



Cohesion Policy

Commission adopted its proposals 6 October 2011

Cohesion policy (**336 B€**): ERDF, CF & ESF, rural development (EAFRD) and maritime and fisheries (EMFF); coherent with

- Smart growth
- Growth for all
- Sustainable growth

Thematic concentration for maximising impact: minimum shares for research and innovation through ERDF. **Allocation from the total ERDF resources, at national level**

- In more developed regions and transition regions.** At least **80%** for priorities R&I, SMEs and Energy (at least **20%**)
- In less developed regions.** At least **50%** for priorities R&I, SMEs and Energy (at least **6%**)

Ex-ante conditionality, e.g. existence of a Research and Innovation Strategy for Smart Specialisation (RIS3) -> H2020

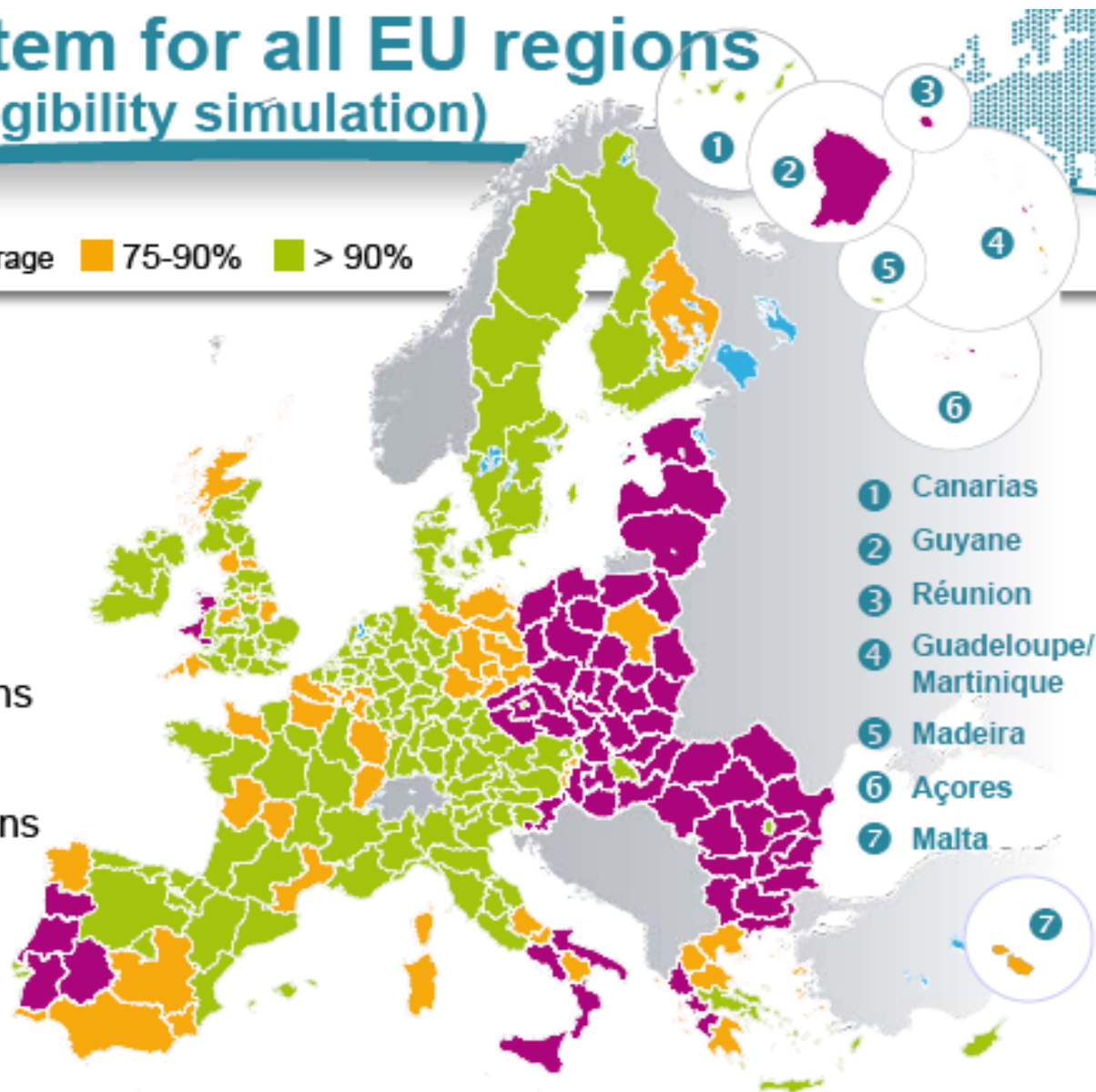
A fair system for all EU regions (eligibility simulation)

GDP/capita* ■ < 75% of EU average ■ 75-90% ■ > 90%

*index EU27=100

3 categories of regions

- Less developed regions
- Transition regions
- More developed regions



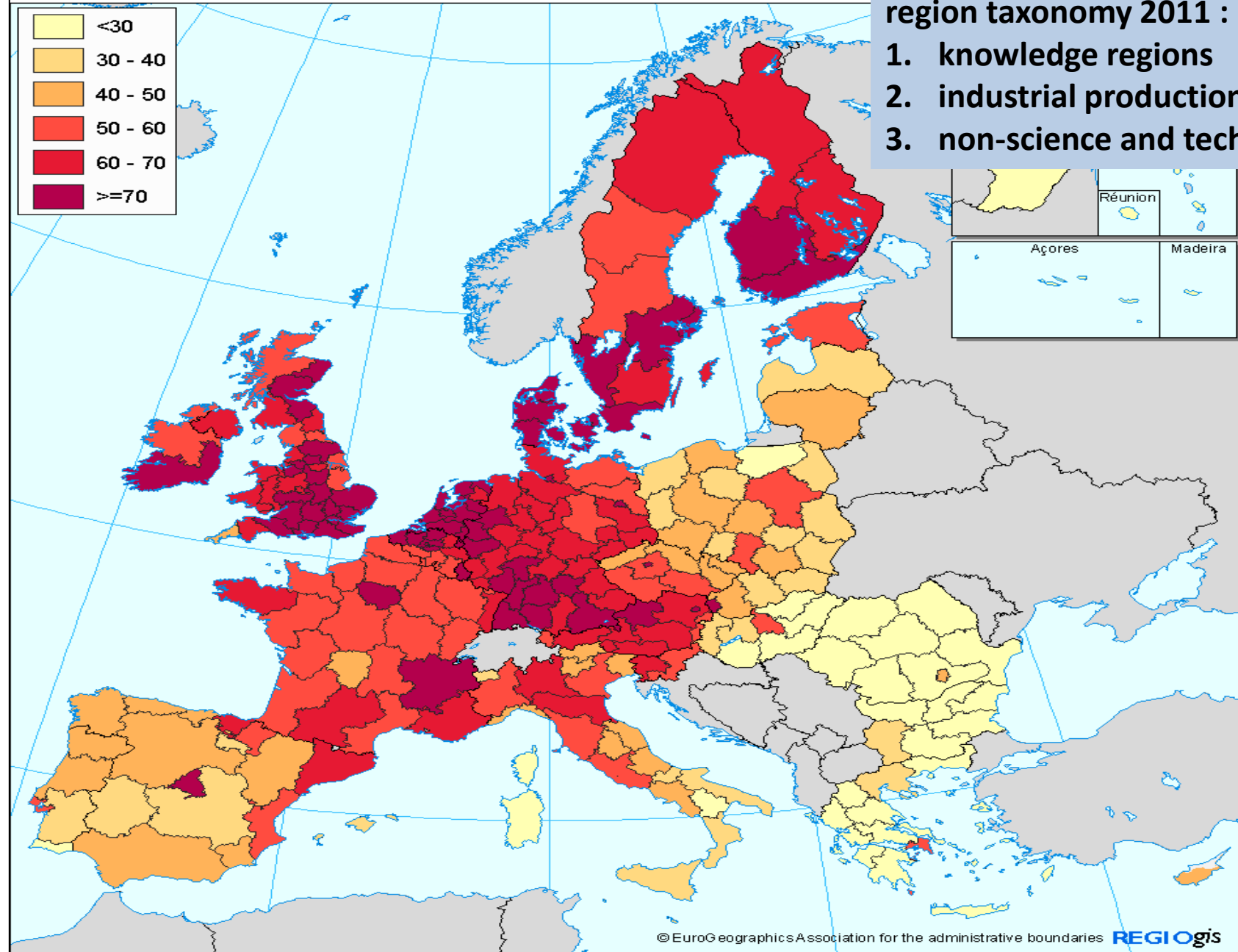
Regional GDP figures: 2006-07-08

GNI figures: 2007-08-09

© EuroGeographics Association for the administrative boundaries

Competitiveness Index, 2010

Index - Values range between 0 (low) and 100 (high)



Europe 2020 – OECD (OCSE)
region taxonomy 2011 :

1. knowledge regions
2. industrial production zones
3. non-science and technology



Thematic Objectives to Deliver EU 2020

- Strengthening **research**, technological development and **innovation**
- Enhancing access to, and use and quality of **ICT**
- Enhancing the competitiveness of **SME in the agricultural sector** (for the EAFRD) and the **fisheries and aquaculture sector** (for the EMFF)
- Supporting the shift towards a **low-carbon economy** in all sectors
- Promoting **climate change** adaptation, risk prevention and management
- Protecting the **environment** and promoting resource efficiency
- Promoting **sustainable transport** , removing bottlenecks in network infrastructures
- Promoting **employment** and supporting **labour mobility** (mainly ESF)
- Promoting **social inclusion** and combating poverty (mainly ESF)
- Investing in **education**, skills and lifelong learning (mainly ESF)
- Institutional capacity and **efficient public administration** (mainly ESF)



Regional research and innovation strategies in the framework of Horizon 2020 and the cohesion policy

- To set up specific **Region to Region collaboration** agreements at European level to face the new development challenges
- Establish Regional alliances **to submit common positions** to the European Institutions
- To encourage the **researcher mobility and collaborations among their public and private research centres** on specific **common R&I priorities**.
- Encourage and support **Joint creation** of incubators and innovative companies
- To launch **common R&I programmes** and **support young people** initiatives
- To develop **common strategies** in the **cohesion policy** and **Smart Specialisation framework**



Fine Presentazione