



ERRIN European Regions
Research and Innovation Network

Research and innovation: the role of regions



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- **Shifting dimension of research and innovation**
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ERRIN

ERRIN helps regions get their voice heard in Brussels and supports the implementation of the Europe2020 Strategy, the Innovation Union flagship initiative, Smart Specialisation...

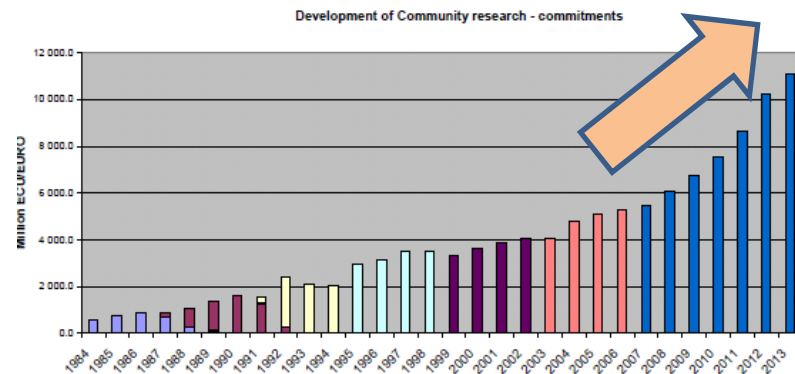
Founded 2001, now with 110+ members in 26 Member States

Brussels-based platform

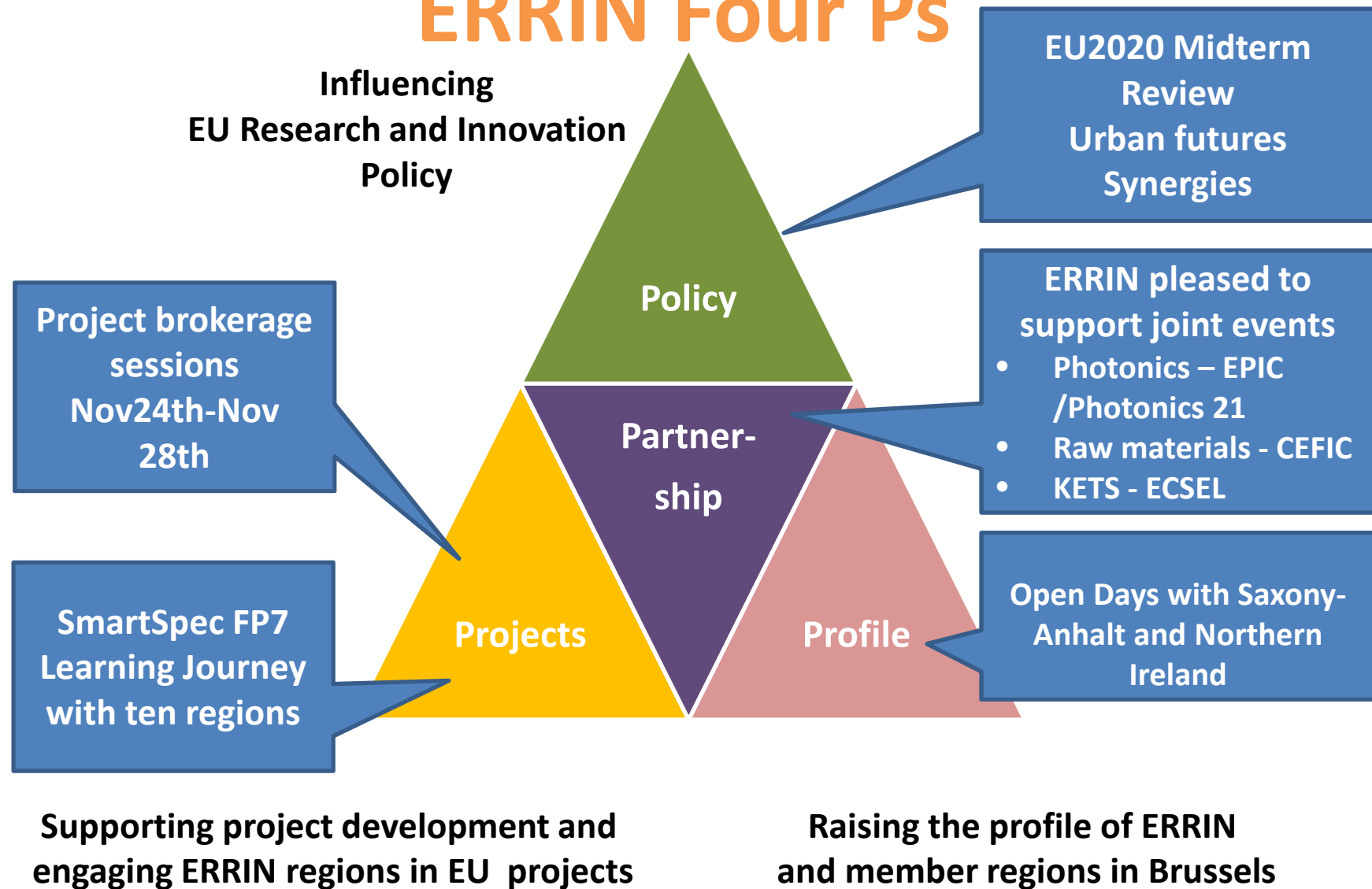
Research and innovation

Building partnerships


Project development

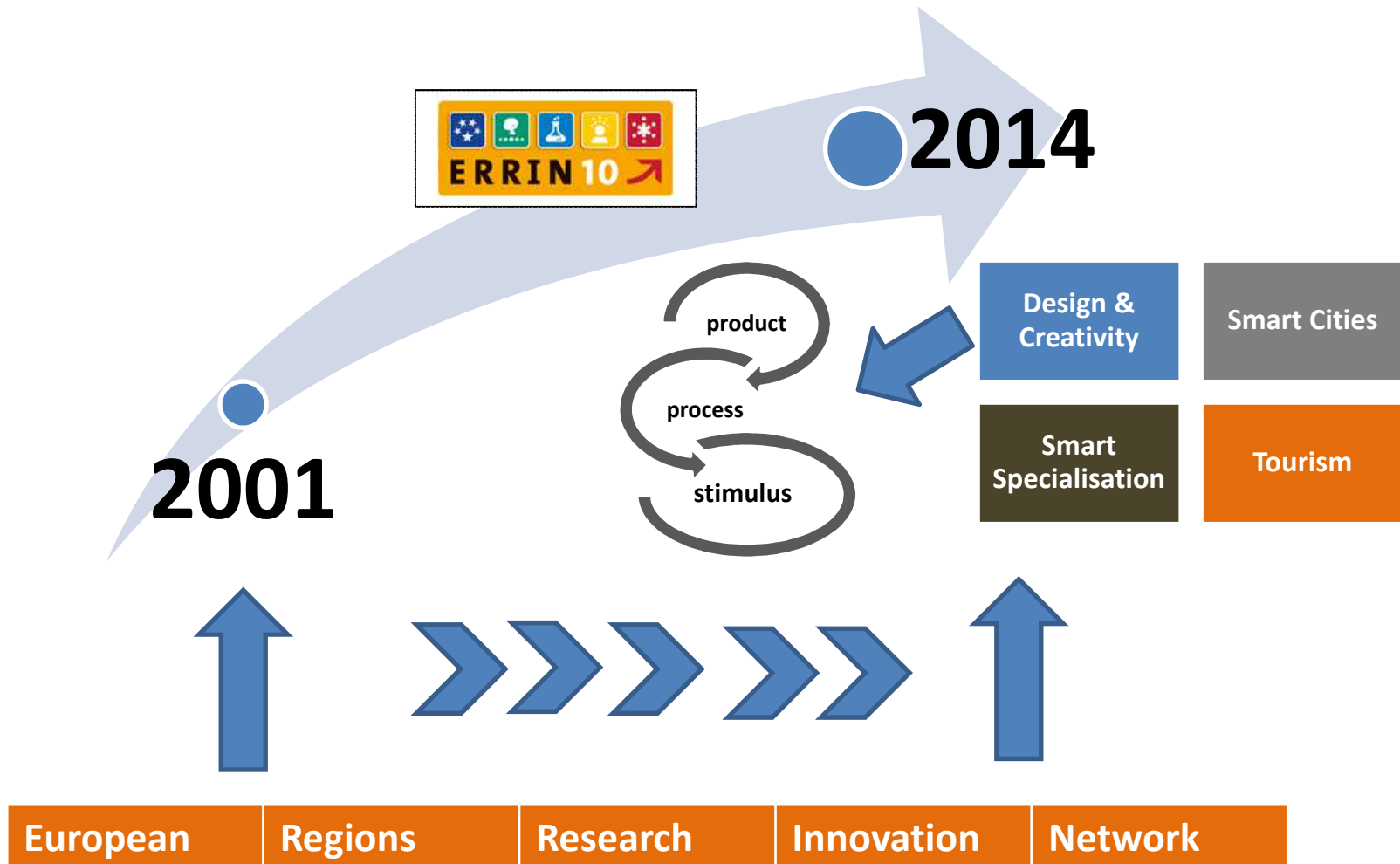


ERRIN Four Ps



ERRIN Working Groups 2014

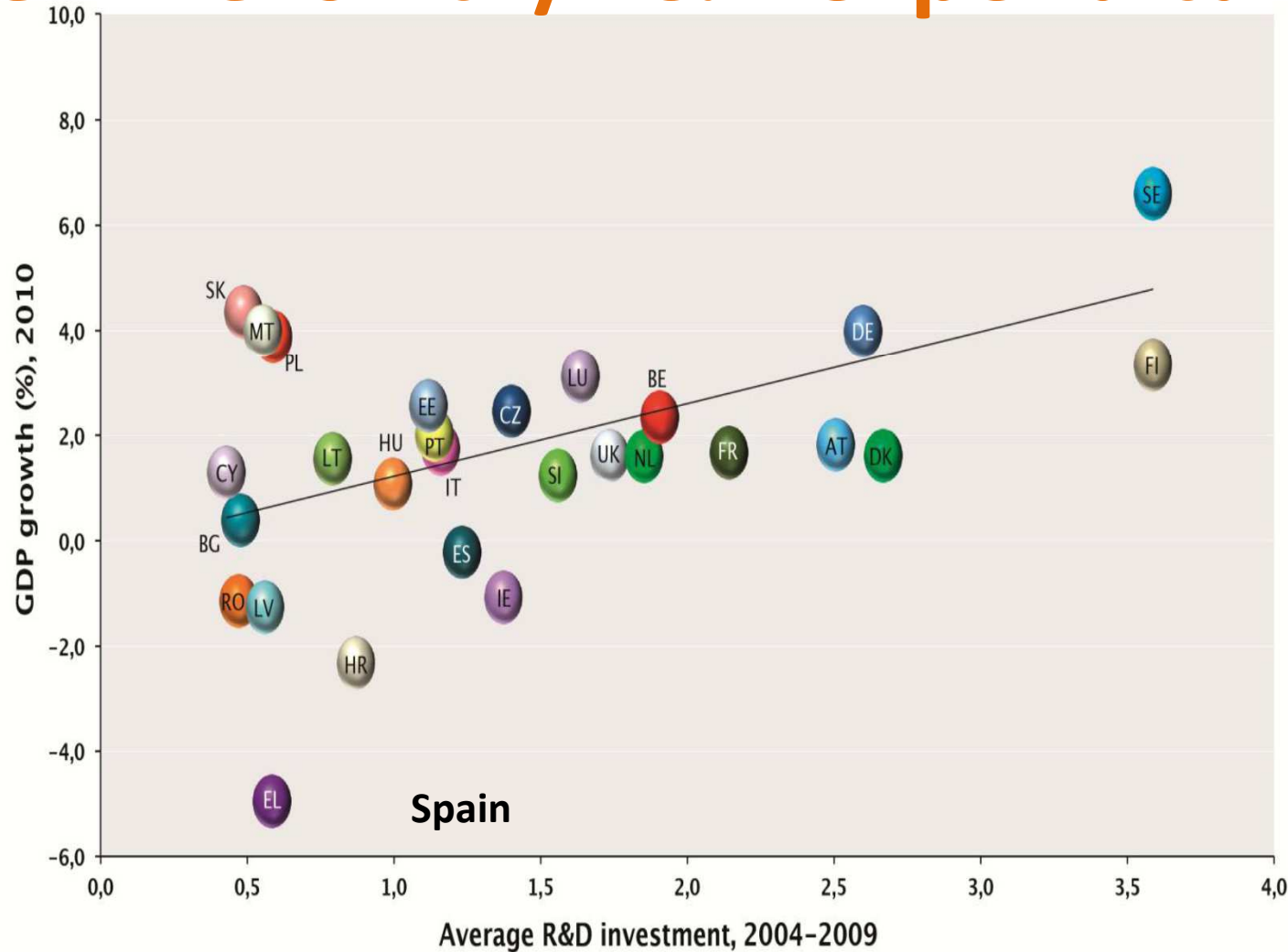
Strategic	Cross-cutting	Societal Challenges	Industrial Competitive-ness	Innovation
Policy	Smart Specialisation	Health	ICT photonics robotics	Innovation Tools & Funding
Projects	Smart Cities	Science & Society	Advanced materials & nano	Tourism
	Blue Innovation & Growth?	Energy and Climate Change	Bio-economy, food & agriculture	Design & Creativity
		Transport		
		Water		



Innovation

→ Growth

GDP Growth/R&D expenditure



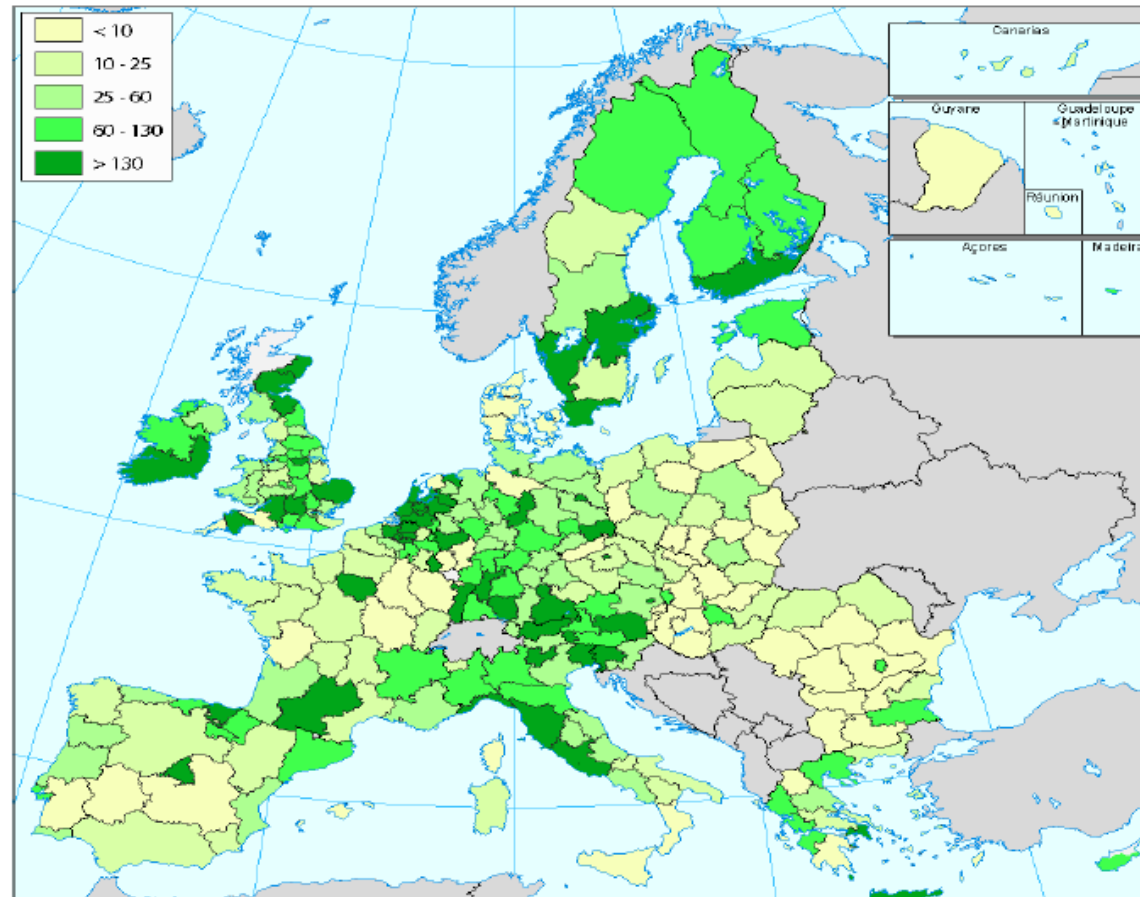
Source: DG Research and Innovation - Economic Analysis Unit
Data: Eurostat

Notes. (1) Greece: average R&D intensity refers to 2004-2007.
(2) Denmark, Portugal, Slovenia, Sweden: Break in series between 2004-2009.

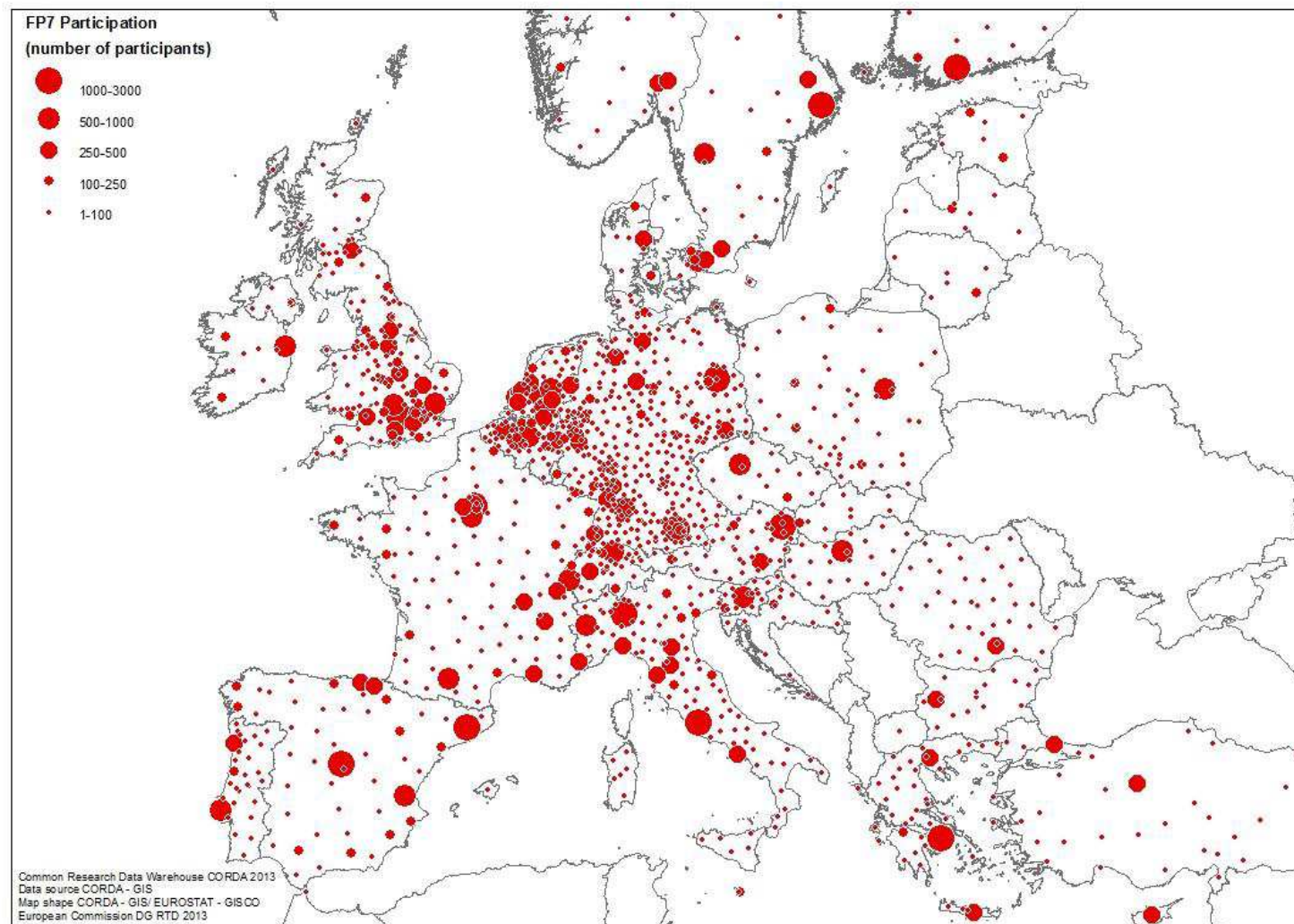
Regions and FP7 research

7th Framework Programme, average funding per head

Index, EU27 = 100

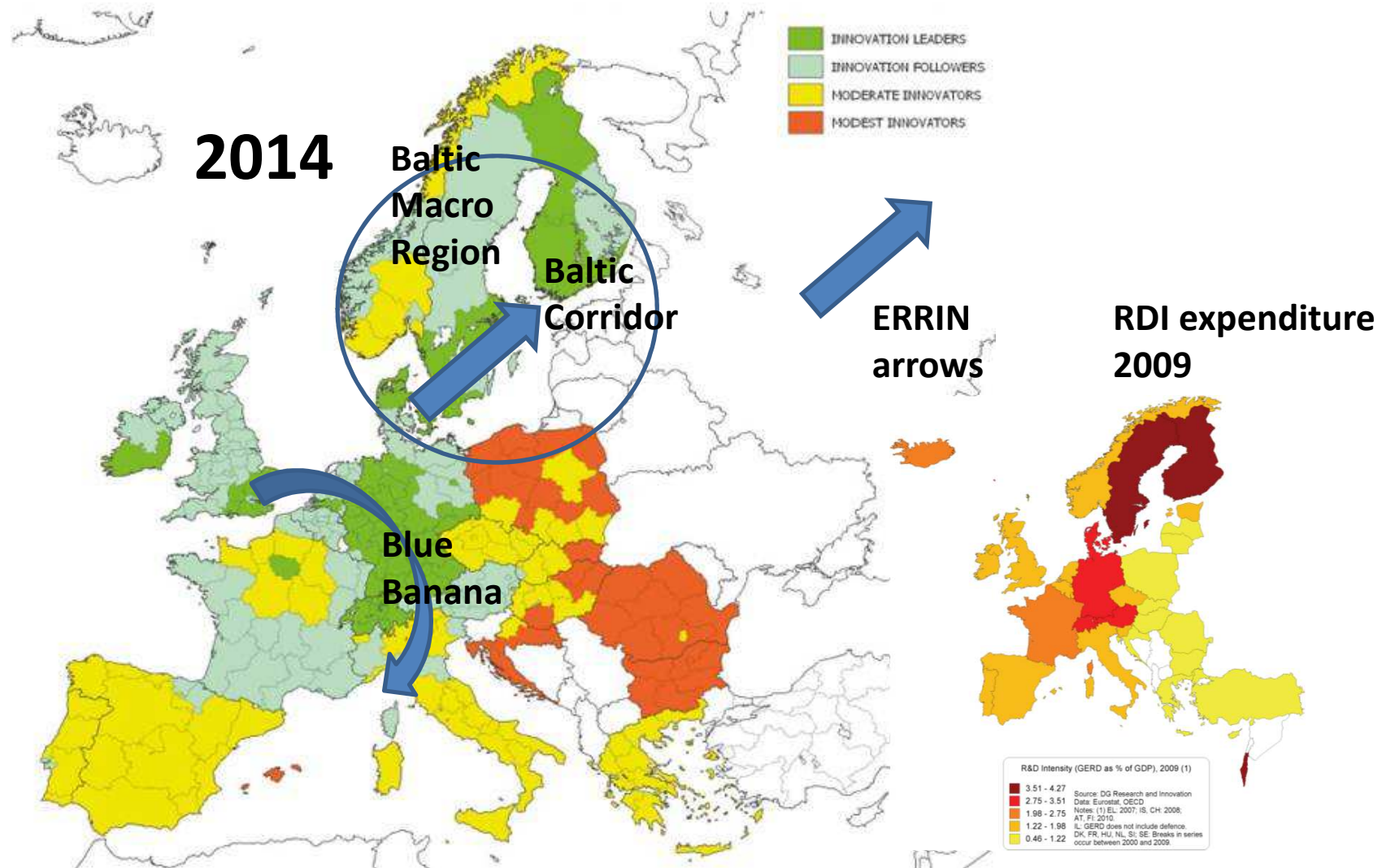


Regions and FP7 research participation

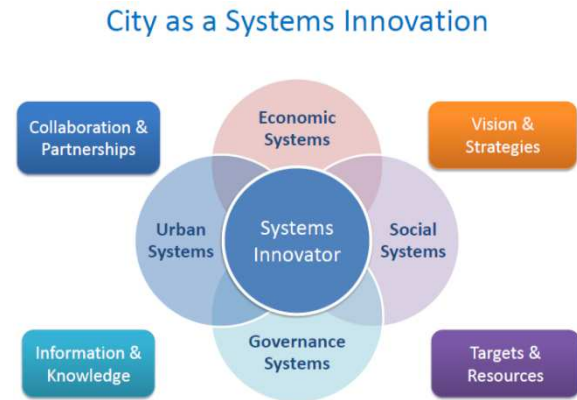


Regional Innovation Scoreboard

Figure 2: Regional performance groups RIS 2014



Innovation as a system

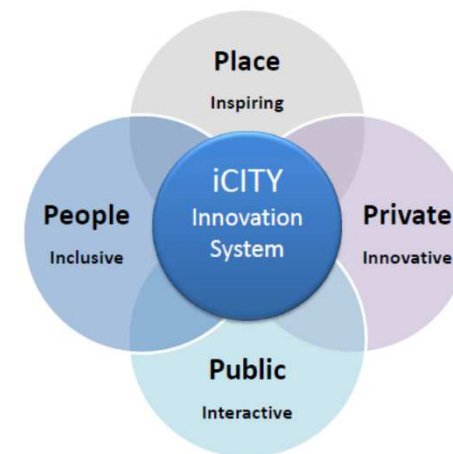


‘Cities don’t innovate – but they provide the support environment for firms, entrepreneurs and institutions within them to innovate.

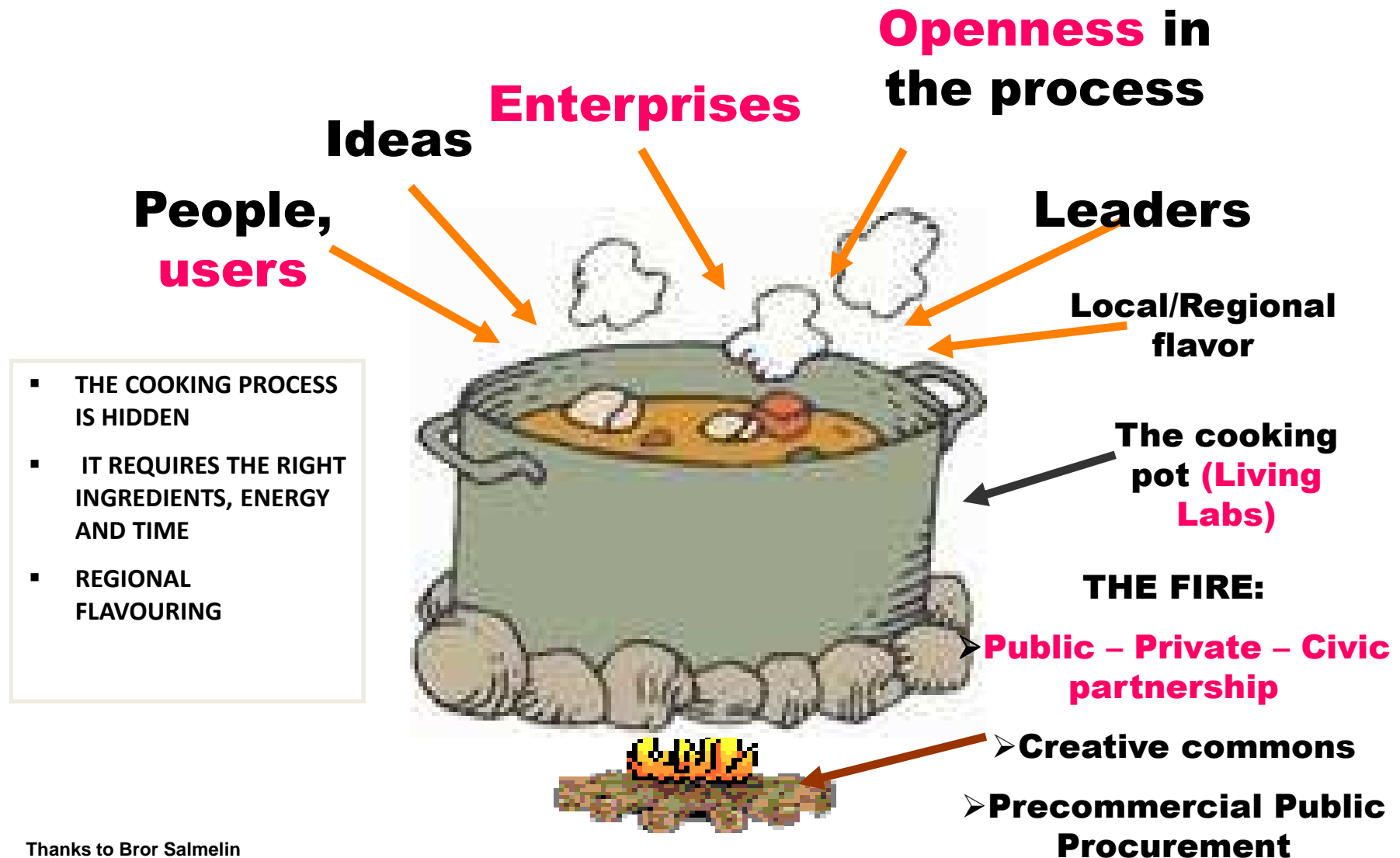
But cities are vital for innovation, they foster the creation of knowledge by bringing businesses, people and institutions together – the innovation ecosystem. They help the flow of ideas, facilitate localised knowledge spill-overs and enable innovation’.

‘We can define systemic innovation as an interconnected set of innovations, where each influences the other, with innovation both in the parts of the systems and in the ways in which they interconnect’.

**Capital of
Innovation Prize
2014**

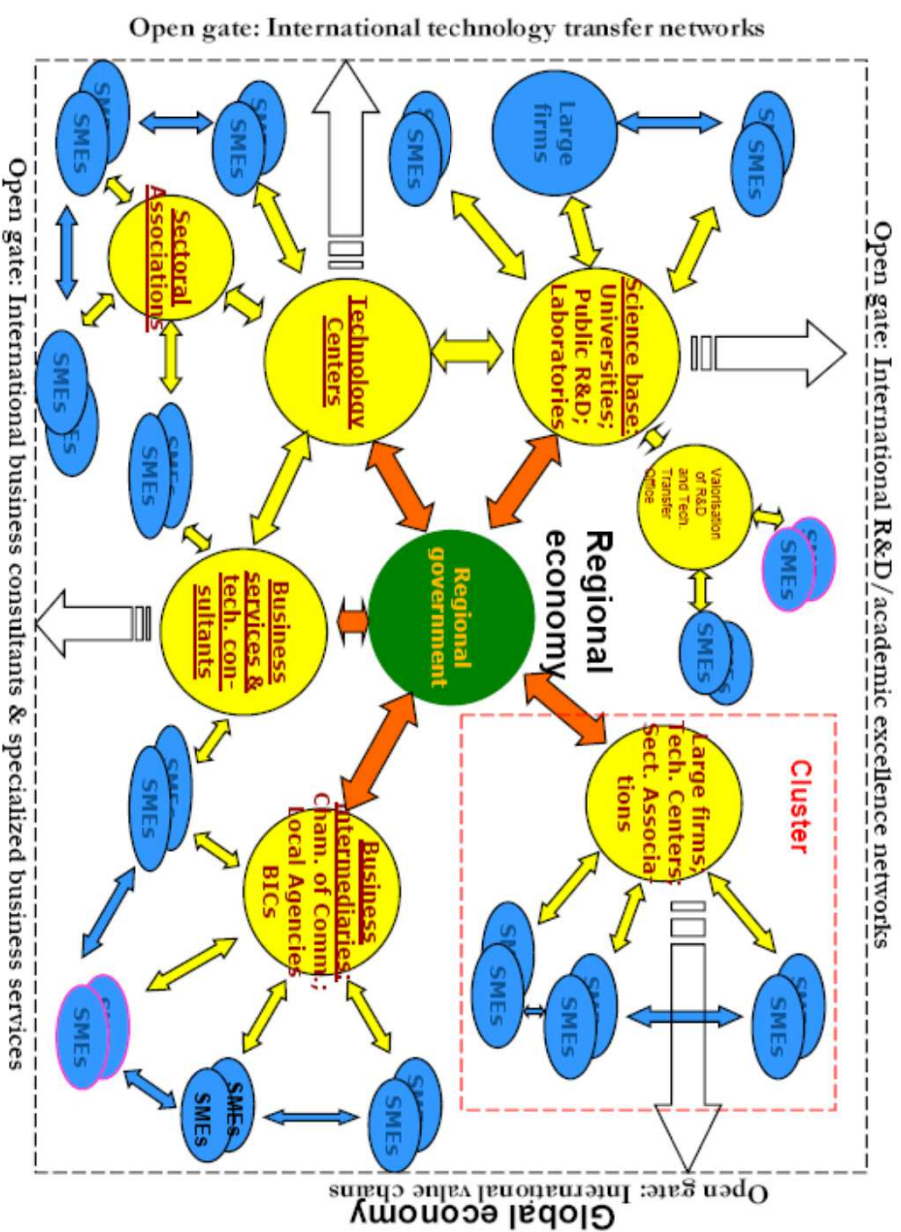


European Innovation System?



Regional Innovation Ecosystem

Joining up inside



Connecting outside

Supporting innovation and regional innovation ecosystems

- Structural funds
- Smart specialisation
- Synergies

Structural Funds 2014-2020

Thematic objectives



1. Research and innovation
2. Information and Communication Technologies
3. Competitiveness of Small and Medium-Sized Enterprises (SME)
4. Shift to a low-carbon economy
5. Climate change adaptation and risk management and prevention
6. Environmental protection and resource efficiency
7. Sustainable transport and disposal of congestion on major network infrastructure
8. Employment and support for labour mobility
9. Social inclusion and poverty reduction
10. Education, skills and lifelong learning
11. Increased institutional capacity and effectiveness of public administration

€110 bn
TOs 1-4

Innovation in Cohesion Policy

Commission

EAFRD: knowledge transfer and innovation in agriculture, forestry and rural areas, EIP for agricultural productivity and sustainability

SME competitiveness: ERDF IP3

(a) promoting **entrepreneurship**, in particular by facilitating the **economic exploitation of new ideas** and fostering the creation of new firms, including through business **incubators**;
(b) developing and implementing **new business models** for SMEs, in particular for **internationalisation**;
(c) supporting the creation and the extension of **advanced capacities for product and service development**;
(d) supporting the capacity of SMEs to engage in growth in regional, national and international markets, and in **innovation processes**;

Investment priorities 5-7 procurement of innovative transport and environment solutions

RTD and innovation: ERDF IP 1

(a) **research and innovation infrastructure and capacities**, centres of competence;
(b) **business investment in innovation and research**, synergies between enterprises, R&D centres and higher education, product and service development, technology transfer, social innovation, eco-innovation, public service applications, demand stimulation, networking, clusters, technological and applied research, pilot lines, early product validation actions, advanced manufacturing capabilities and first production, in particular in Key Enabling Technologies and diffusion of general purpose technologies,

Low carbon economy: ERDF IP4

(a) production and distribution of energy derived from renewable sources;
(b) energy efficiency and renewable energy use in enterprises;
(c) energy efficiency & renewable energy in public infrastructures & housing sector;
(d) smart distribution systems
(e) low-carbon strategies for urban areas, sustainable multi-modal urban mobility
(ea) research & innovation and adoption of low-carbon technologies;
(g) co-generation of heat and power

Human Capital, Skills & Mobility: ESF

Art.3(2)c) post-graduate studies, training of researchers, networking activities, partnerships between higher education institutions, research & technological centres and enterprises;
(d) adaptability of enterprises and workers and increased investment in human capital.
Etc.

Cohesion Fund:

procurement of environmental and transport infrastructures

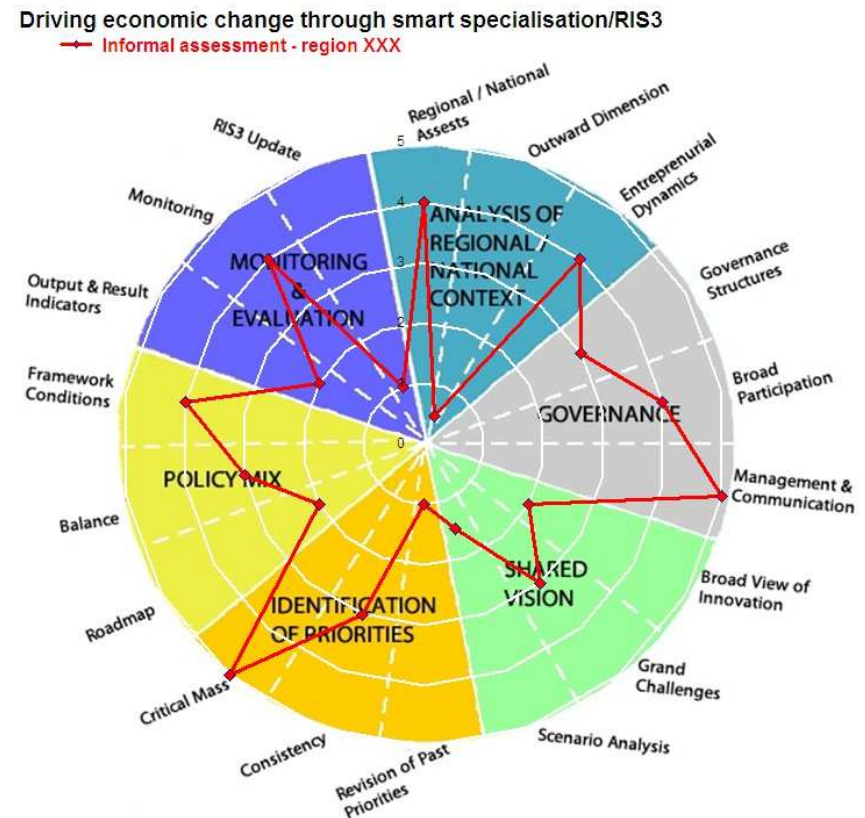
Access, use & quality of ICT: ERDF IP 2

(a) extending broadband deployment and the rollout of high-speed networks, adoption of emerging technologies and networks for the digital economy;
(b) developing **ICT products and services, e-commerce and enhancing demand for ICT**;
(c) strengthening ICT applications for e-government, e-learning, e-inclusion, e-culture and e-health;

EMFF: innovative, competitive and knowledge based fisheries and aquaculture including related processing

Smart Specialisation

- If taken seriously, this requirement will introduce a change in perspective, new processes and in some cases even radically new orientations in regional policies
- Claire Nauwelaers,
Final Report Assessment of Interreg Europe 2014-2020
(April 2014)



Smart Specialisation: policy challenges

- Prioritisation – how to select?
- Integrated policy - how do we do S3?
- Smart policy making
 - tools for measuring, assessing and learning
- Multi-level governance
 - EU, MS, regional...
- Cross-border collaboration
 - Appropriate territories
- Stakeholder engagement
 - How to promote participation, engagement and commitment

Smart specialisation

- **Internal**

- Entrepreneurial discovery process
 - who, how, when,
- Role of scientific, technological and economic specialisation in the development of comparative advantage
- Policy intelligence to identify future comparative advantage
- Governance arrangements – implementation
- Continual process
 - Revision after mid-term review of Europe 2020?
 - Consultation open to end Oct.

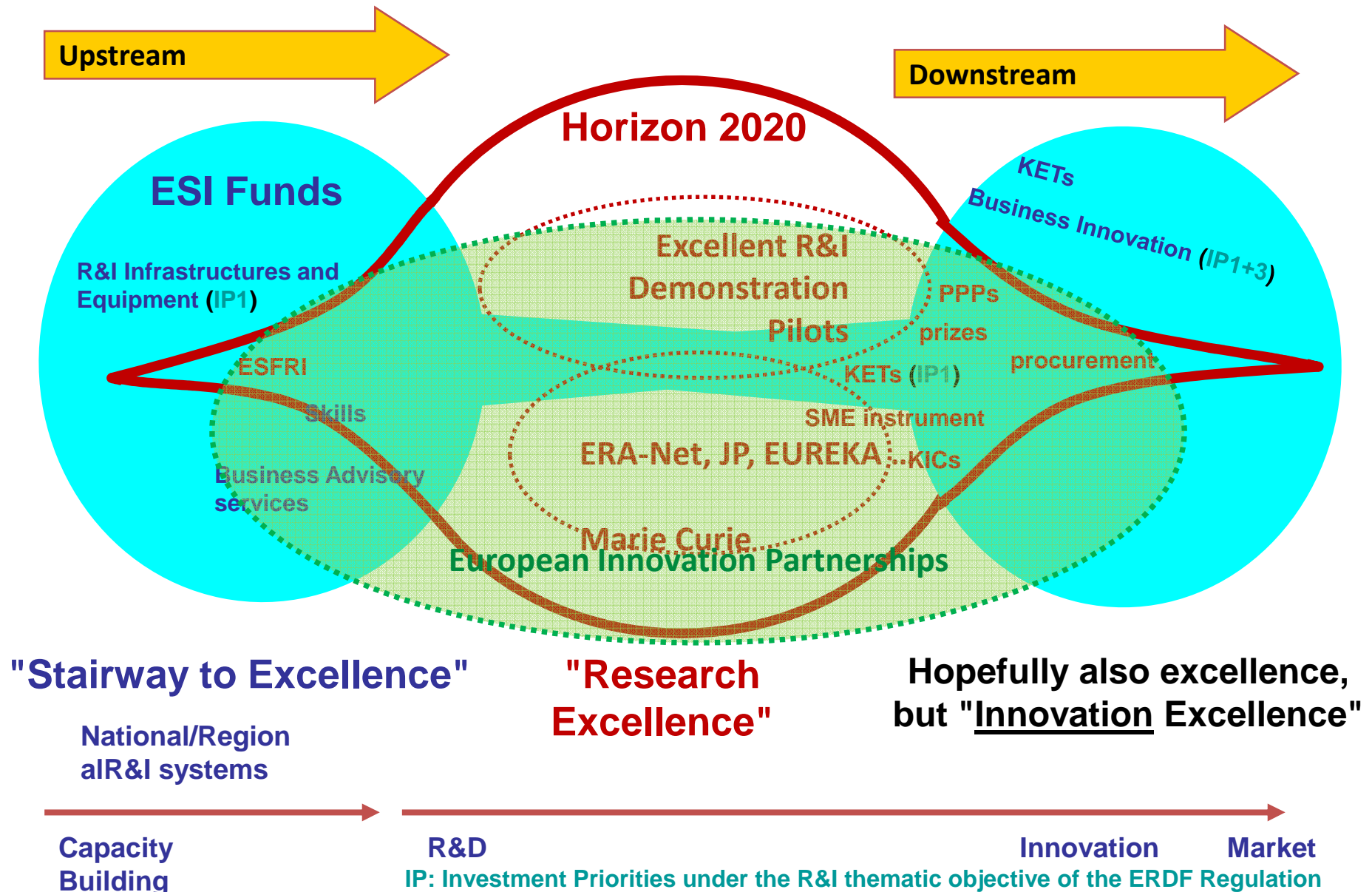
- **External**

- Benchmarking (for Aragon)
- <http://s3platform.jrc.ec.europa.eu/regional-benchmarking-tool>
 - 7 Spanish regions
 - Basilicata, Emilia-Romagna & Umbria
- Check S3 in other regionsEye@RIS
<http://s3platform.jrc.ec.europa.eu/eye-ris3>
- Identifying value chains/partner regions
 - Peer reviews – 44 regions and 12 MS
 - Thematic seminars

Putting it all together

Synergies

Synergies with Horizon2020?



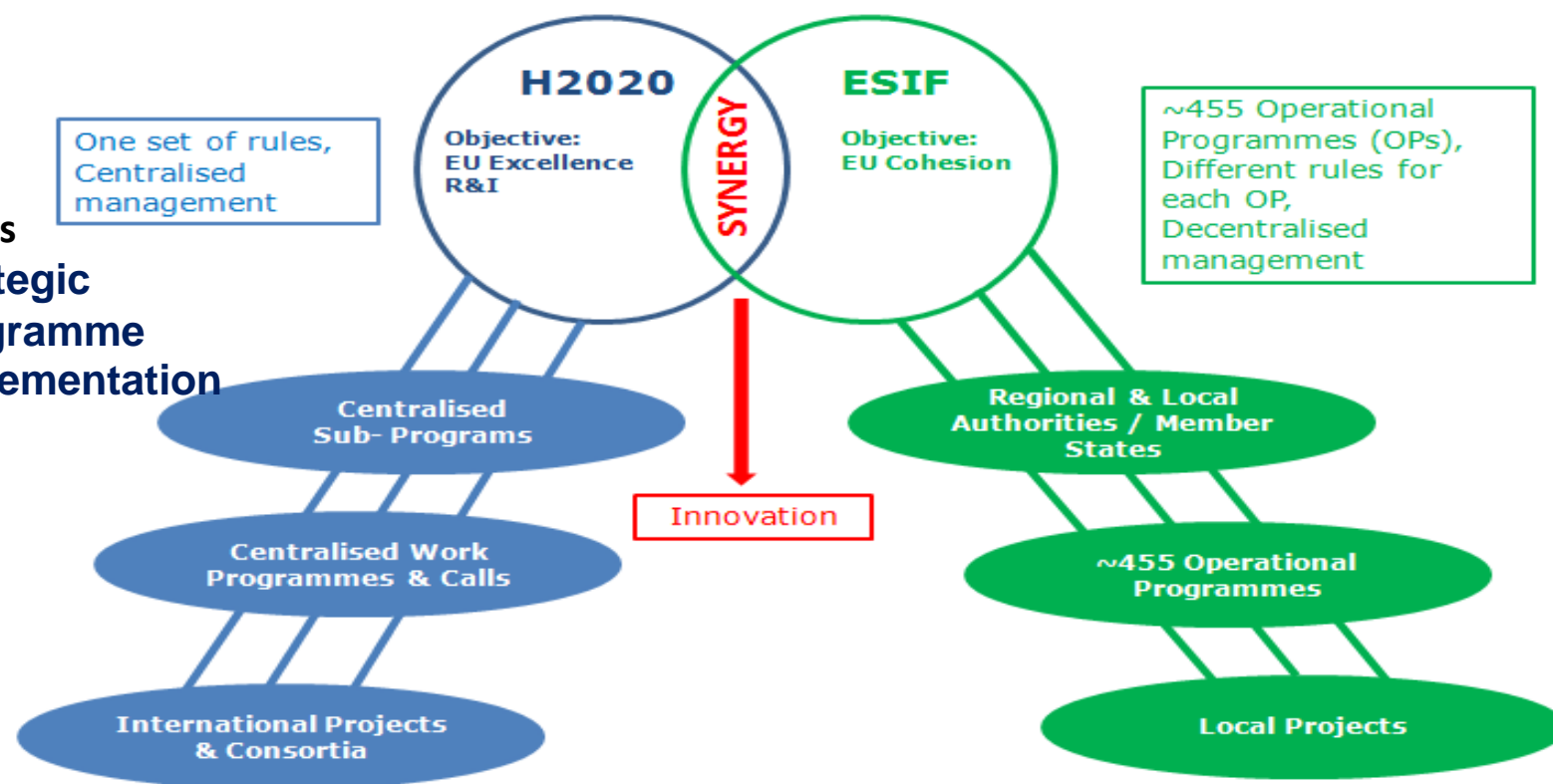
But...

Synergies

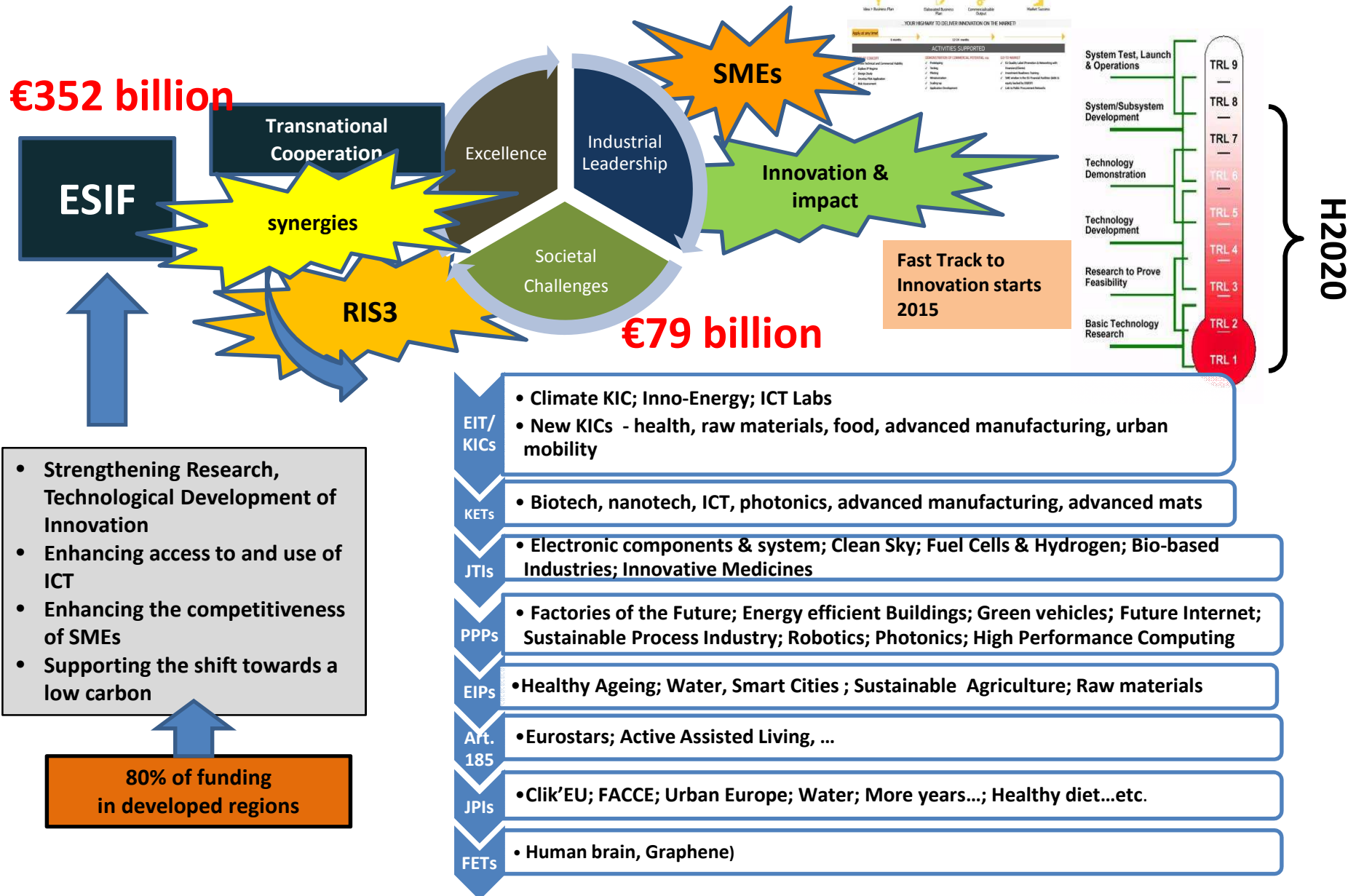
Horizon 2020 & ESIF:
Two Different Strategies, Objectives and Implementation Mechanisms

Synergies

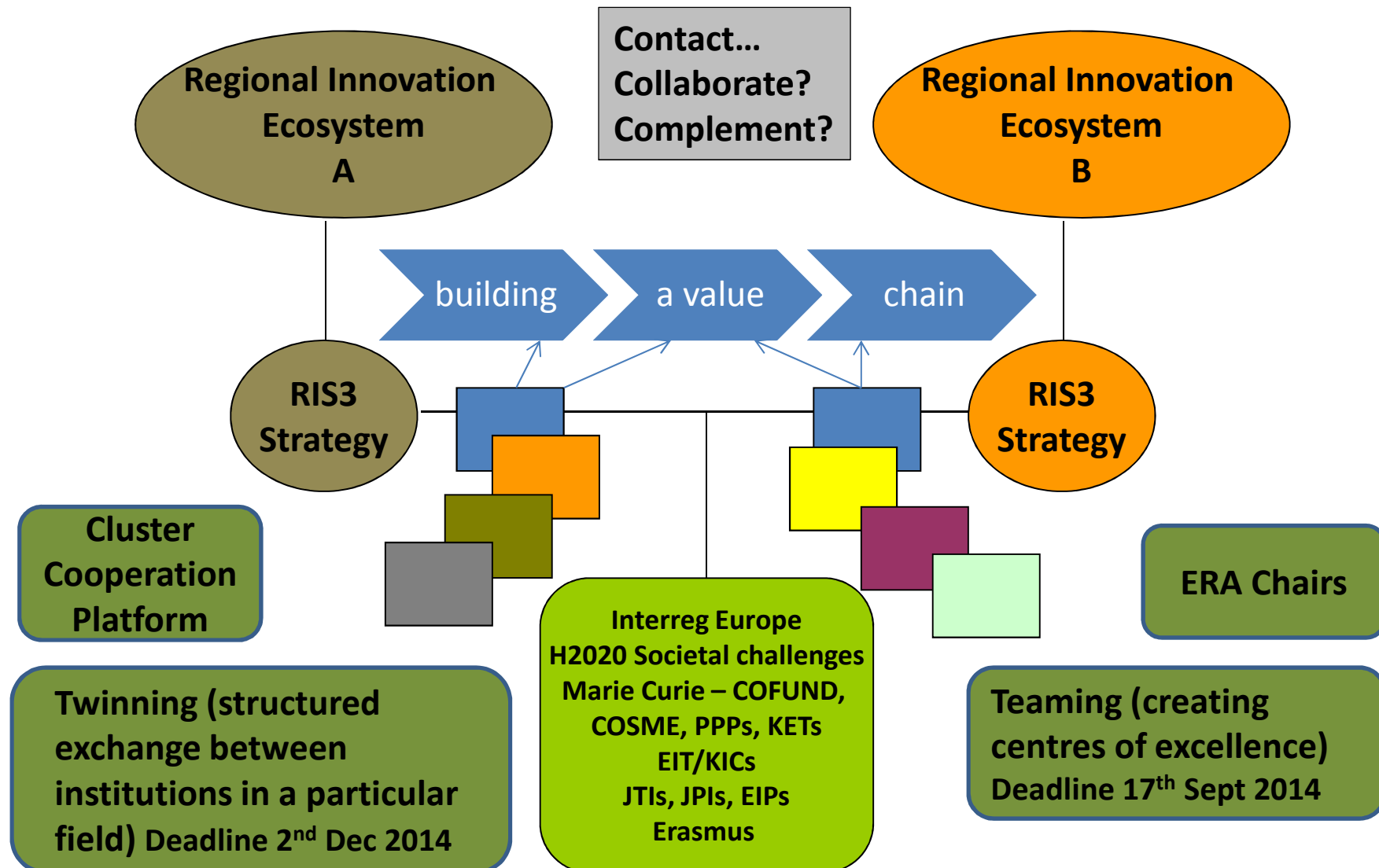
- Strategic
- Programme
- Implementation



ESIF & H2020



Regional Partnerships



Conclusions

- Regions play a key role in developing effective regional innovation ecosystem
- Regions need to be 'joined up' internally
 - Quadruple helix (see Citizen Engagement EIP Smart Cities and Communities Action Cluster)
 - Knowledge absorption/embedding is just as important as knowledge generation
- Regions need to 'join up' externally
- Key role for smart specialisation
- Strategic thinking and effective implementation

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