



TII 2015 Annual Conference

Innovating Innovation: Exploring New ways to create

Innovation addressing societal challenges – 20 years of EU innovation policy

Singapore, 18 May 2015

**DG Research
and Innovation**

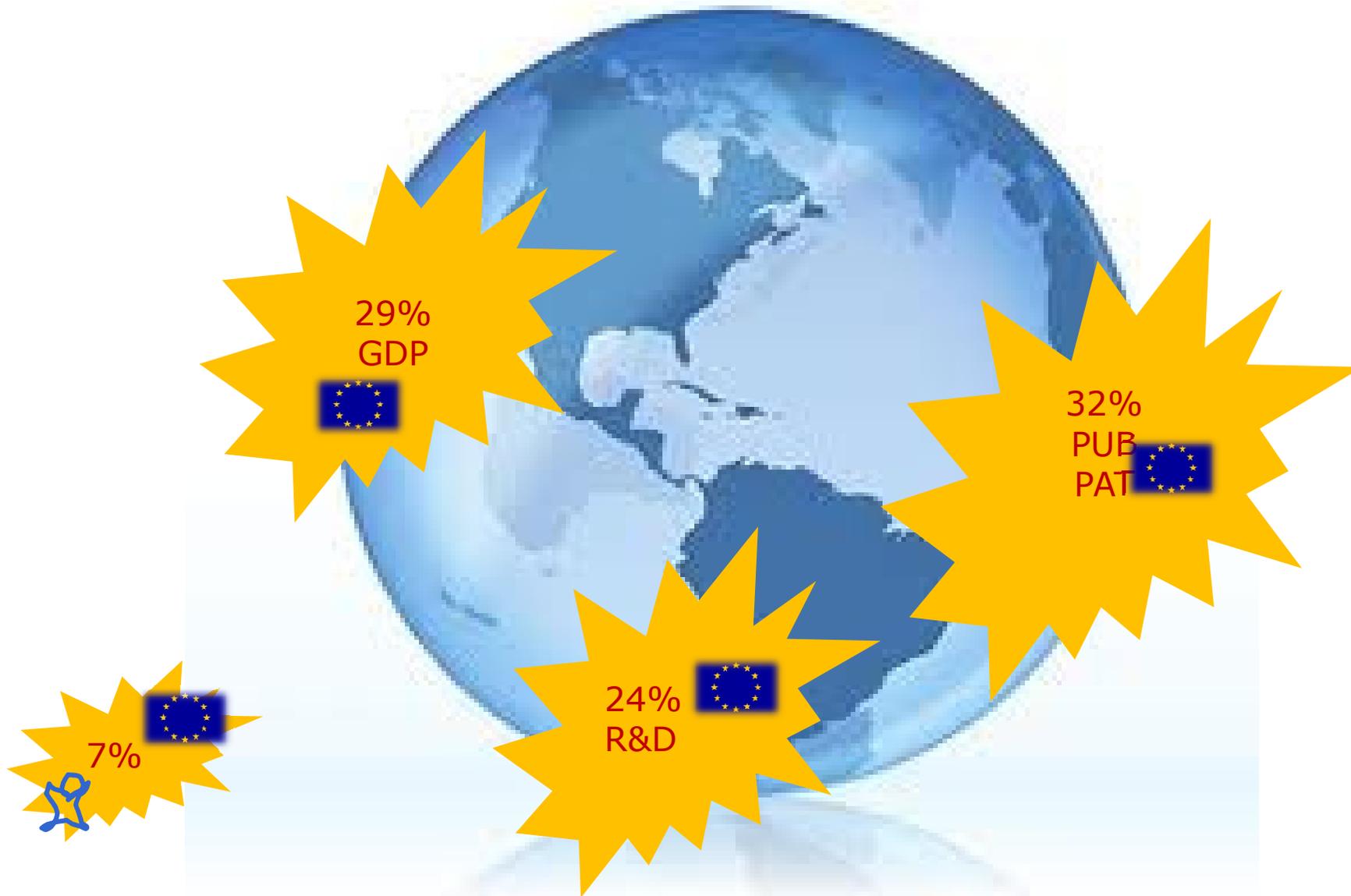
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WOW!

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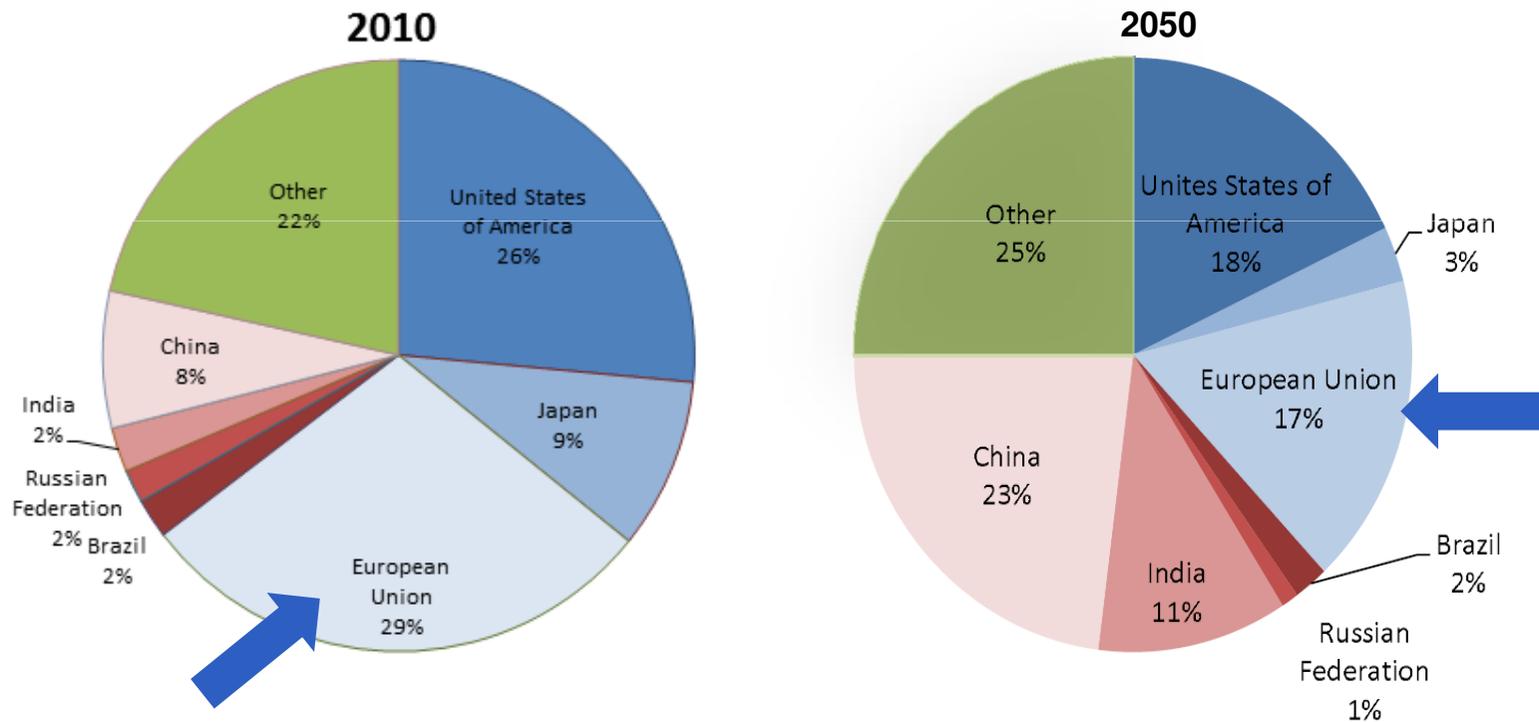
Outch!

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The relative size of the EU 2010 - 2050



World GDP (constant USD), Source: Global Europe 2050



Can innovation change the course ?



Innovation – and ...

... THE PUBLIC UNDERSTANDING

- *synonymous with "hope"*
- *"dangerous" (Flaubert)*
- *the common misunderstandings*

... THE OECD DEFINITION ...

- *new/significantly improved product or process*

... THE ACTORS

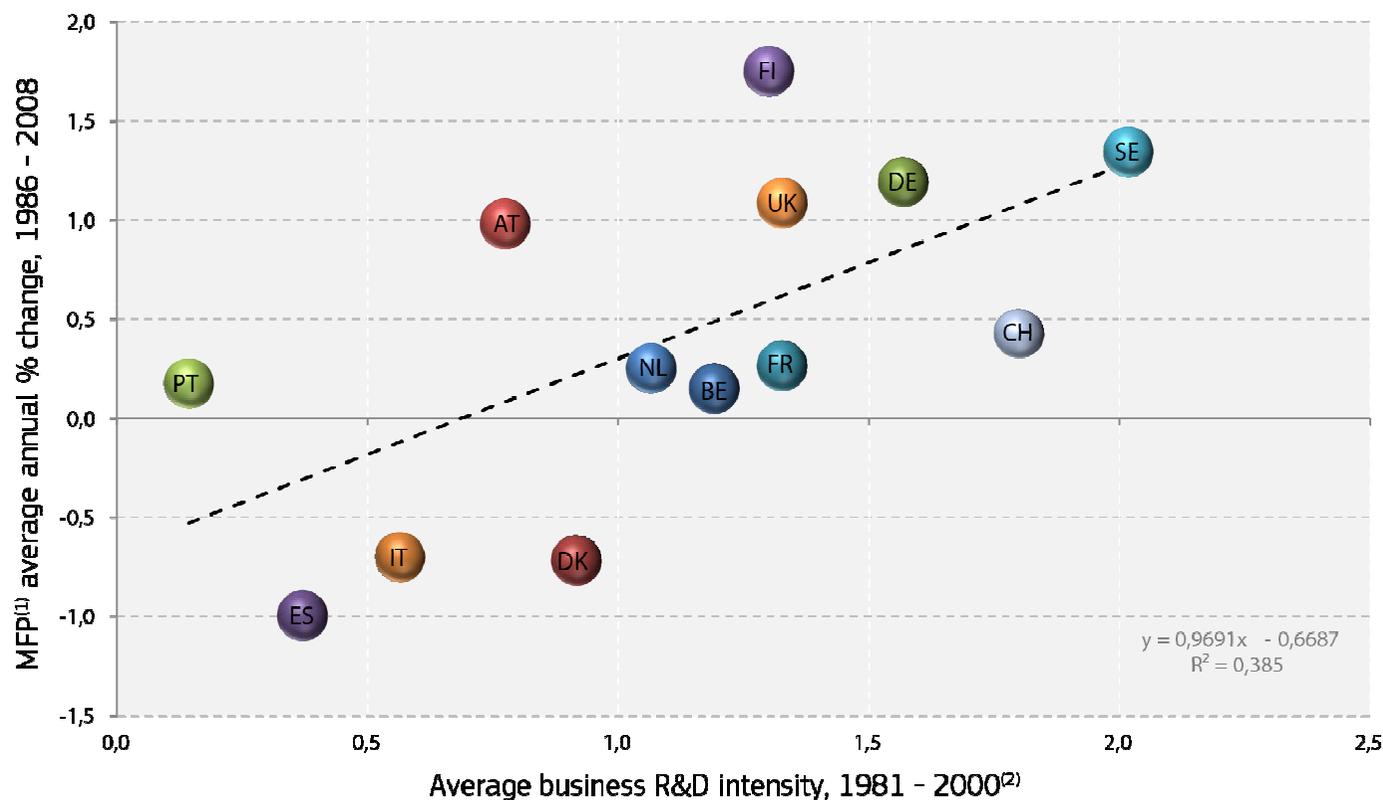
- *companies*
- *public sector (incl. academia)*
- *"third sector"*
- *the "crowd"*



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Innovation and competitiveness

Business R&D intensity and multi-factor productivity



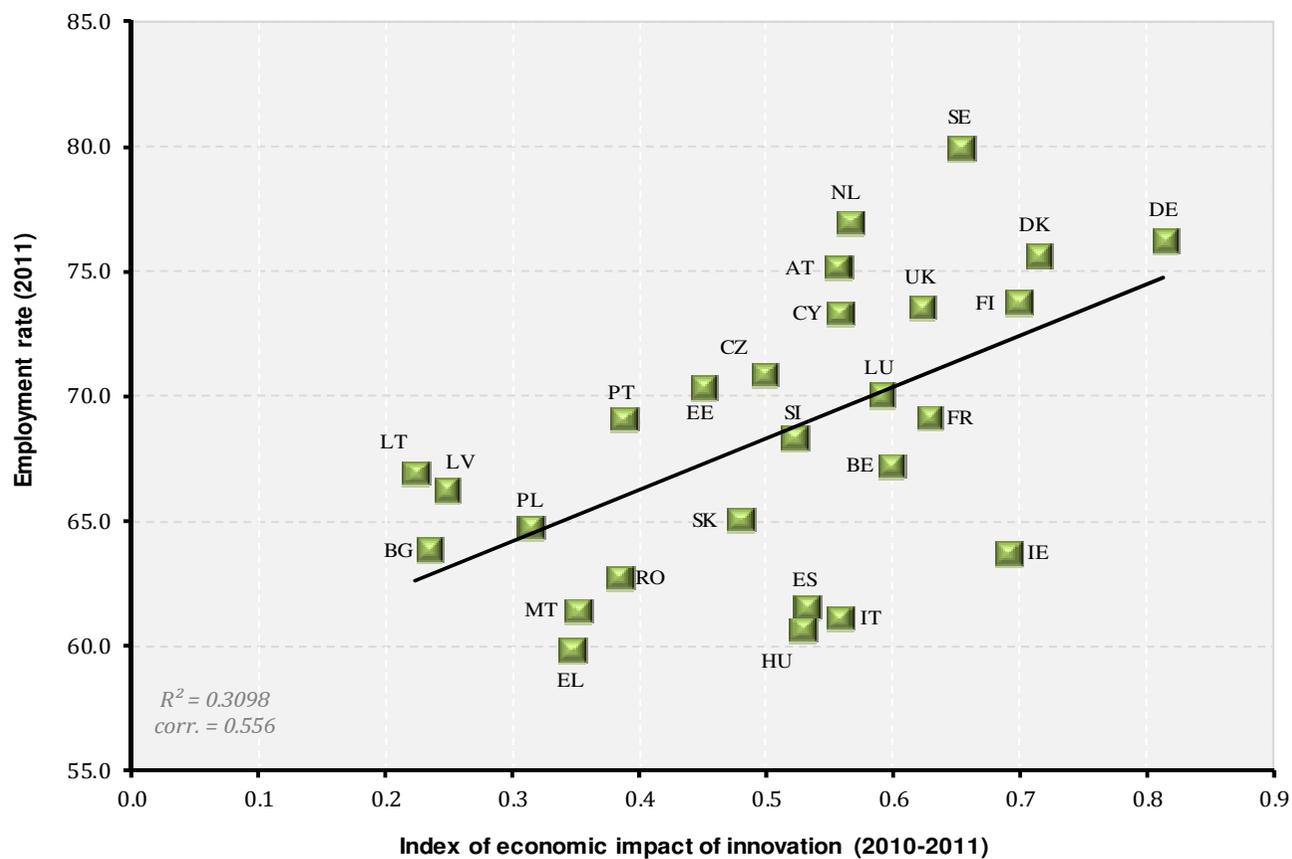
Source: DG Research and Innovation – Economic Analysis unit

Data: ⁽¹⁾ Multi-factor productivity (OECD): Dan Andrews & Chiara Criscuolo, 2013.
"Knowledge-Based Capital, Innovation and Resource Allocation",
OECD Economics Department Working Paper 1046, OECD Publishing



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Innovation and jobs



Source: DG Research and Innovation - Economic Analysis unit (2013)

Data: Eurostat, Innovation Union Scoreboard 2013



EU Innovation policy – the start



EU innovation policy – the development

First generation: **linear concept**

focus on TT, academia-business links

2nd generation: **innovation
systems**

focus on networks, clusters

Third generation: **mainstreaming**

e.g. environment, cohesion policies

2010: **Innovation Union**

Scott D. Anthony

1) Lone inventor

2) Corporate
labs

3) Rebels/start-
ups

4) Corporate
catalysts



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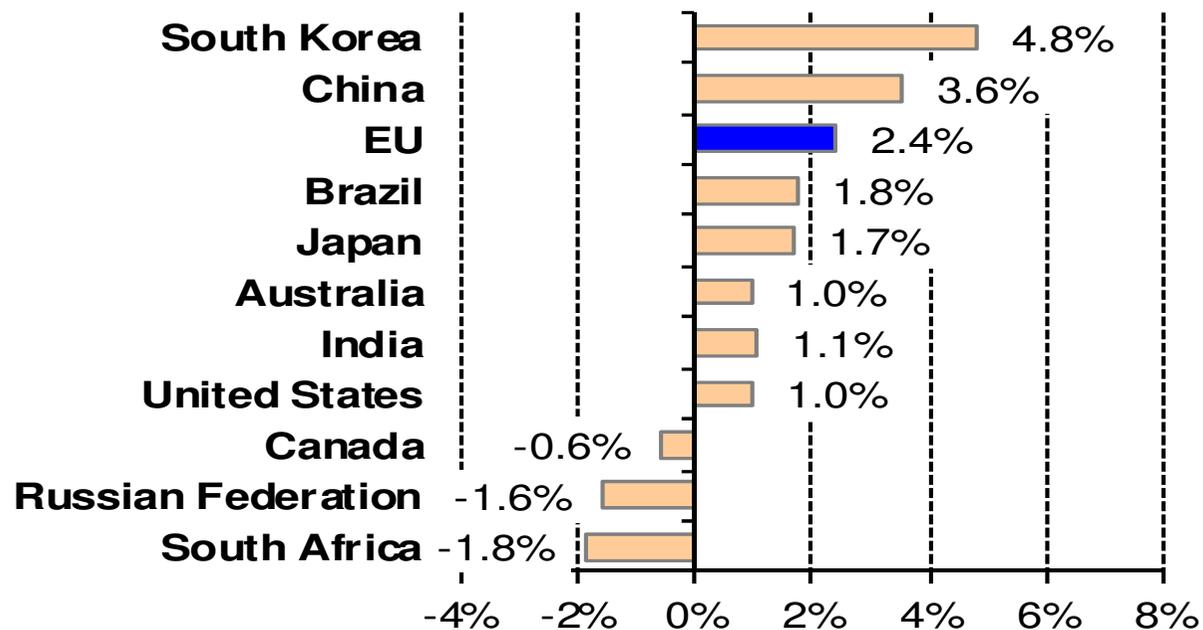
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Innovation performance - international

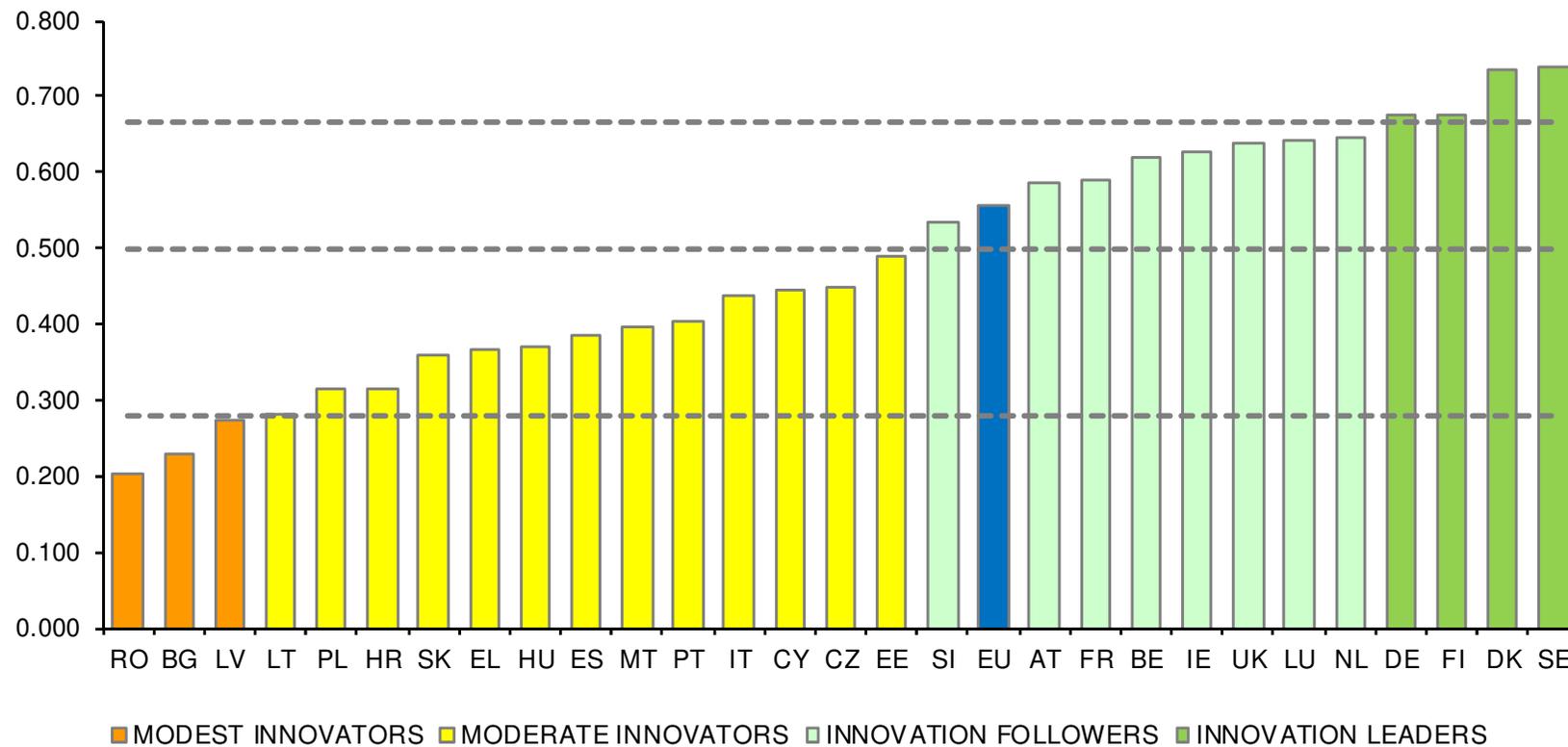


Average annual growth rates in Summary Innovation Index 2007-14



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Innovation performance - EU



Innovation Union: achievements

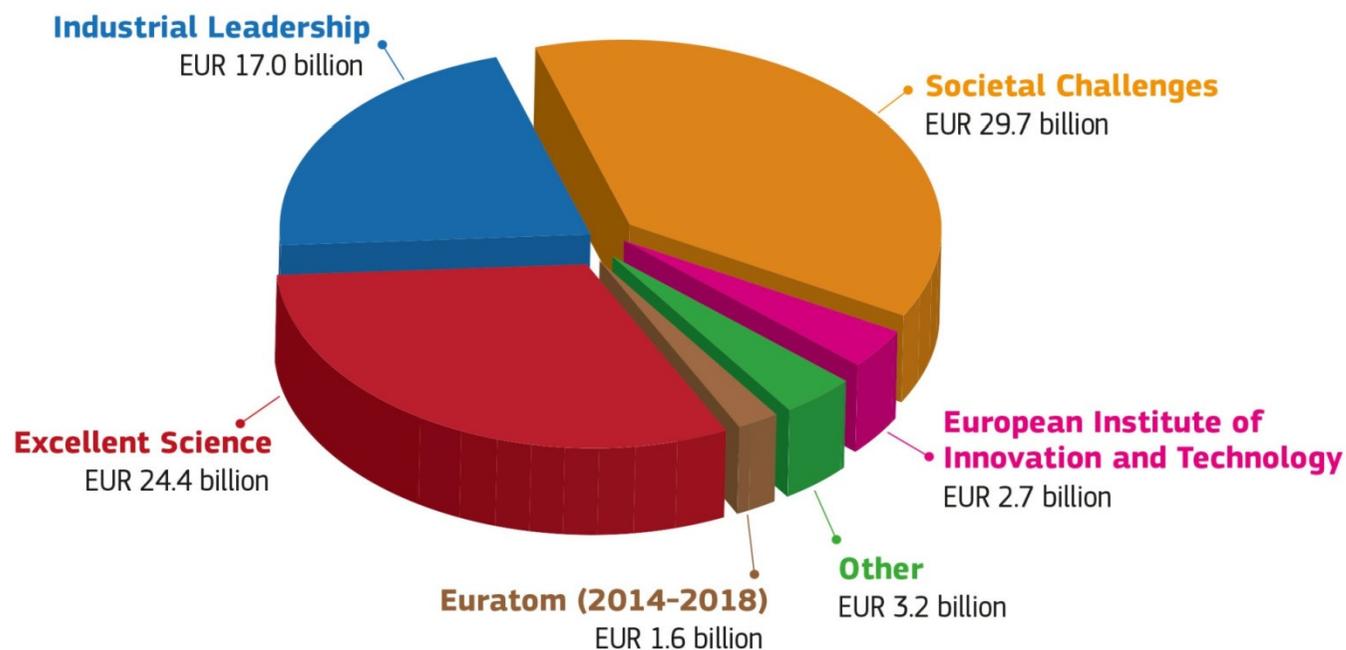
- Innovation at the top of Europe's political and economic agenda
- Broad concept of innovation / Mainstreaming
- Integral part of European Semester
- Internal market for innovation:
 - The unitary patent
 - Venture capital passport
 - Innovation friendly state aid framework
 - EU public procurement
- Horizon 2020: single research and innovation framework programme (e.g. including prizes, innovation procurement, etc.)
- Innovation partnerships (EIPs)



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Research and Innovation Programme

HORIZON 2020 BUDGET (in current prices)





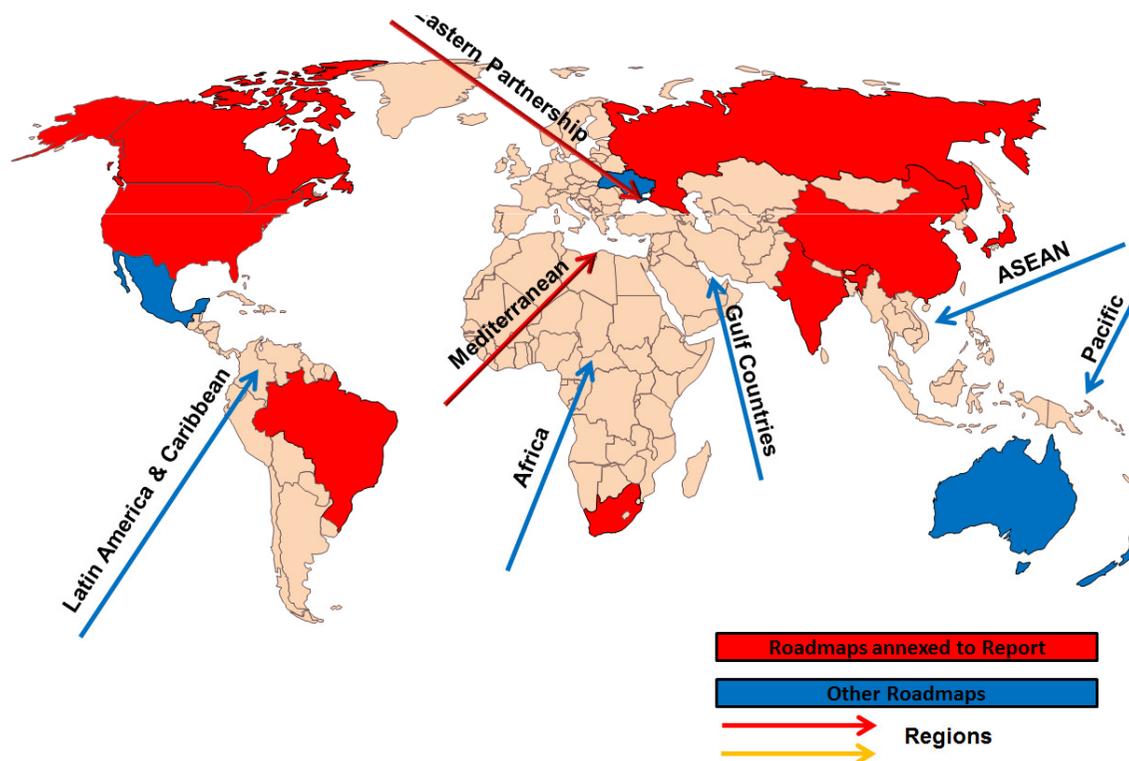
Horizon 2020 approach to innovation

- All forms of innovation: design, business models, social, public
- Increased support to activities closer to users and markets:
 - ❑ Piloting, demonstration, prototyping
 - ❑ Support to innovation “**market demand**”:
 - ✓ standards
 - ✓ public procurement
 - ✓ inducement prizes
 - ✓ bottom-up activities (more flexible call for proposals)
 - ❑ A new **SME instrument** (on “Leadership in enabling and industrial technologies” e “Societal challenges”)
 - ❑ More extensive use of **financial instruments** with leverage effect
 - ❑ Support through **EIT / KICs**



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Horizon and International cooperation (1)





Horizon and International cooperation (2)

- **General opening**
 - Horizon 2020 is fully open to participation of entities from across the world
- **Targeted activities**
 - In a number of topics inclusion of international partners may be
 - *Encouraged*
 - *Required*
- **Coordinated calls**
 - Used for specific actions, e.g. identified through Joint S&T Coordination Committees
 - *Paired calls, linked evaluations, two contracts*
- **Specific activities for policy support**
 - Part of Societal Challenge "Inclusive, Innovative and Reflective Societies"



Next generation – policy: Opening up to an ERA of innovation

- **Education: from STEM to STEAM**
- **Spaces: from (corporate) garage to Fablabs**
- **Scaling: from (super) angels to crowd**
- **Governments: from fixing failures to creating markets**