

Innovation Union: building a better eco-system for Research and Innovation



DG Research and Innovation

EUROPE 2020 - 5 head targets

EMPLOYMENT 75% of the population aged 20-64 should be employed

R & INNOVATION *3% of the EU's GDP should be invested in R&D*

A reduction of CO2 emissions by 20%

CLIMATE / ENERGY A share of renewable energies up to 20%

An increase in energy efficiency by 20%

EDUCATION The share of early school leavers should be under 10%

At least 40% of the younger generation should have a degree or diploma

POVERTY 20 million fewer people should be at risk of poverty

The 7 “Flagship Initiatives”

Smart Growth	Sustainable Growth	Inclusive Growth
Innovation « <u>Innovation Union</u> »	Climate, energy and mobility « Resource efficient Europe »	Employment and skills « An agenda for new skills and jobs »
Education « Youth on the move »	Competitiveness « An industrial policy for the globalisation era »	Fighting poverty « European platform against poverty »
Digital society « A digital agenda for Europe »		

Innovation Union - Commitments

1. Training researchers

2. University ranking system

3. Developing new curricula

4. ERA Framework

5. European Research infrastructures

6. Programmes focusing on EU2020

7. Involvement of SMEs in R&I

8. Forum on Forward Looking Activities

9. EIT to expand its activities

10. New financial instruments for private finance

11. Free Venture Capital funds

12. Cross-border matching of innovative firms

13. Review of State aid R&D&I

14. EU Patent

15. Screening of key regulatory frameworks

16. Modernise standard-setting

17. Pre-commercial and public procurements

18. Eco-innovation action plan

19. European Design Board

20. Open access

21. Knowledge transfer

22. European market for patents and licensing

23. Safeguard of IPRs

24. Smart Specialisation

25. Focus on Innovation in the next Structural Funds

26. European Social innovation pilot

27. Research programmes on public sector and social innovation

28. Partners consultation on knowledge economy

29. European Innovation Partnerships

30. Policies for researchers to reside in Europe

31. Scientific cooperation with third countries

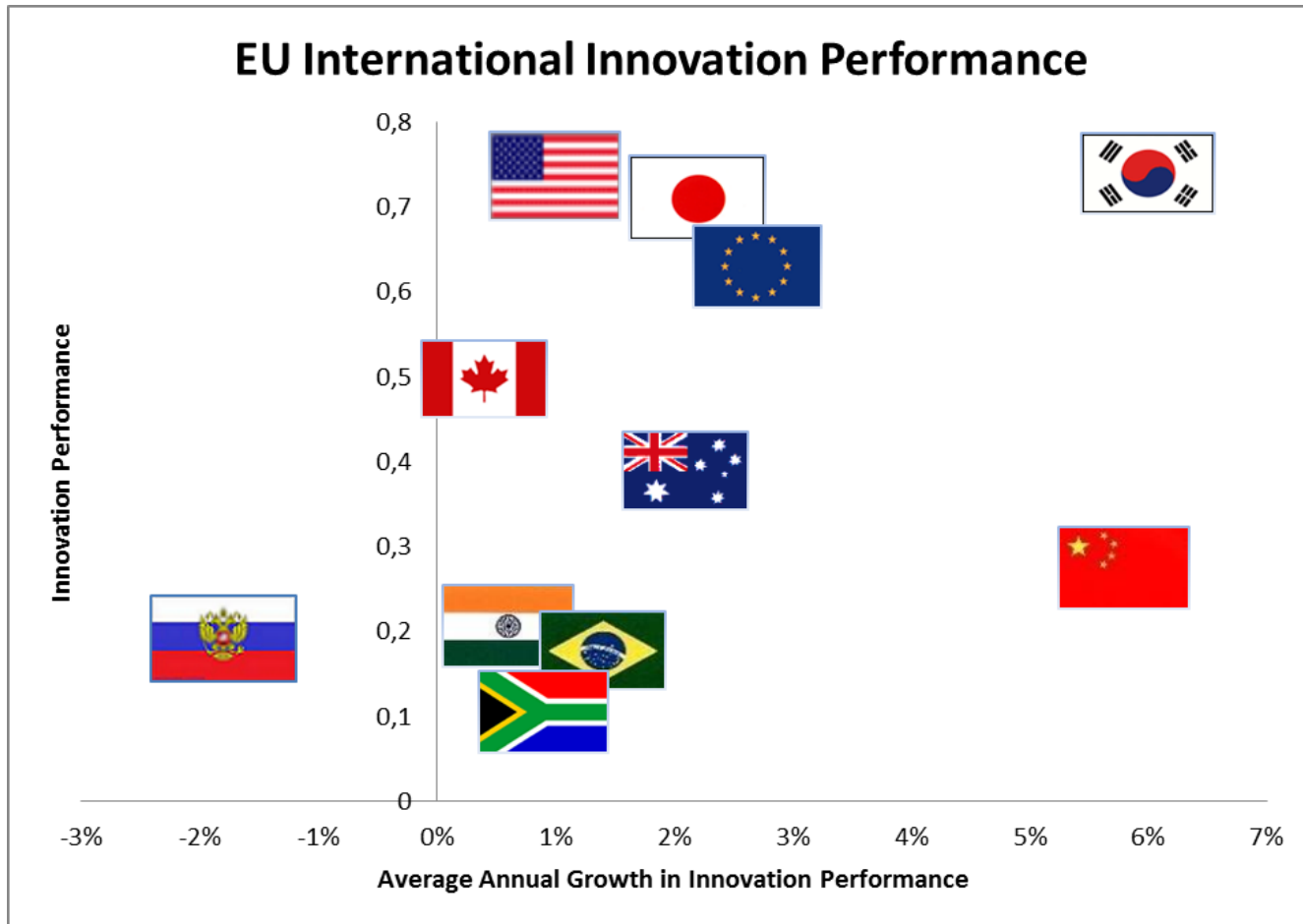
32. International agreements on research infrastructures

33. MS to carry out self assessments

34. New indicator for fast-growing companies and overall monitoring

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)



Source: Innovation Union Scoreboard 2014

Main tools put in place by the IU - overview

- *Horizon 2020*
- *Knowledge Alliances*
- *European Research Area / European research infrastructures*
- *Unitary Patent*
- *Access to risk finance*
- *Faster standard setting*
- *Public Procurement of innovation*
- *European Innovation Partnerships*

Horizon 2020 - Supporting innovation

Substantial support for innovation

- ☐ Prototyping and testing, demonstrating and piloting, large-scale product validation, market replication ...
- ☐ Establishing technical and economic viability in operational environments

Significant support to demand side approaches

- ☐ Pre-commercial procurement (PCP), Public procurement of innovative solutions (PPI)
- ☐ Standard-setting, regulation to foster innovation etc.
- ☐ Inducement prizes

Piloting new forms and sources of innovation

- ☐ Extending beyond technological and research-based innovation

Leveraging and boosting engagement of industry

Innovation driven public-private partnerships

- ❑ Emphasis on systems integration, validation, piloting and demonstration
- ❑ Joint Technology Initiatives
- ❑ Contractual Public-Private Partnerships

Reflecting the strategies of stakeholder groups

- ❑ European Innovation Partnerships
- ❑ European Technology Platforms etc.

A reinforced effort for SMEs

- ❑ Collaborative projects, SME Instrument, Eurostars, support measures etc.

Providing access to finance

- ❑ Debt and Equity Instruments

Knowledge Alliances

- Knowledge Alliances are transnational, structured and result-driven projects
- between higher education and business
- open to any discipline, sector and to cross-sectoral cooperation
- Aim:
 - design new curricula and courses
 - develop new and innovative ways of teaching and learning
- Piloted in 2011, integrated in Erasmus+ for 2014-2020

European Research Area

ERA is a unified research area in which researchers, scientific knowledge and technology circulate freely.

1. More effective national research systems
2. Optimal transnational co-operation and competition
3. An open labour market for researchers
4. Gender equality and gender mainstreaming in research
5. Optimal circulation and transfer of scientific knowledge

Unitary Patent – state of play

- *Protection in 25 Member States in a one-stop-shop*
- *Reduced costs and administrative burden*
- *Granted by the EPO*
- *Minimum translation requirements*
- *No need for national level validation of a granted patent*
- *Operational in 2015 (expected)*

Access to risk finance

- *Within Horizon 2020 and COSME*
- *Debt (notably loans for R&I-driven SMEs, large firms and Universities) and equity financial instrument facilities (Venture Capital and quasi-equity for SMEs and small midcaps, technology transfer activities etc.)*
- *Implemented by EIF and EIB*
- *First calls for expression of interest by intermediaries (banks, risk-capital funds) at the end of 2014*
- *SME instrument*

Faster Standard setting

- *Communication (2011) and legislative measures (2012)*
- *Essential to keep pace with shorter innovation cycles and to facilitate market penetration of innovative goods*
- *Multi-annual programmes*
- *Process now lasts on average 2.5 years (VS 4 years in 2010, -37%)*

Public procurement of innovation

- *National procurement budgets for innovation*
- *Financial support to transnational cooperation for contracting authorities*
-> more than €120M in Horizon 2020 during 2014-2015)
- *Revision of public procurement directives:*
 - Emphasis on quality/innovative characteristics
 - Facilitated cross-border cooperation
 - Public Procurement of innovation platform

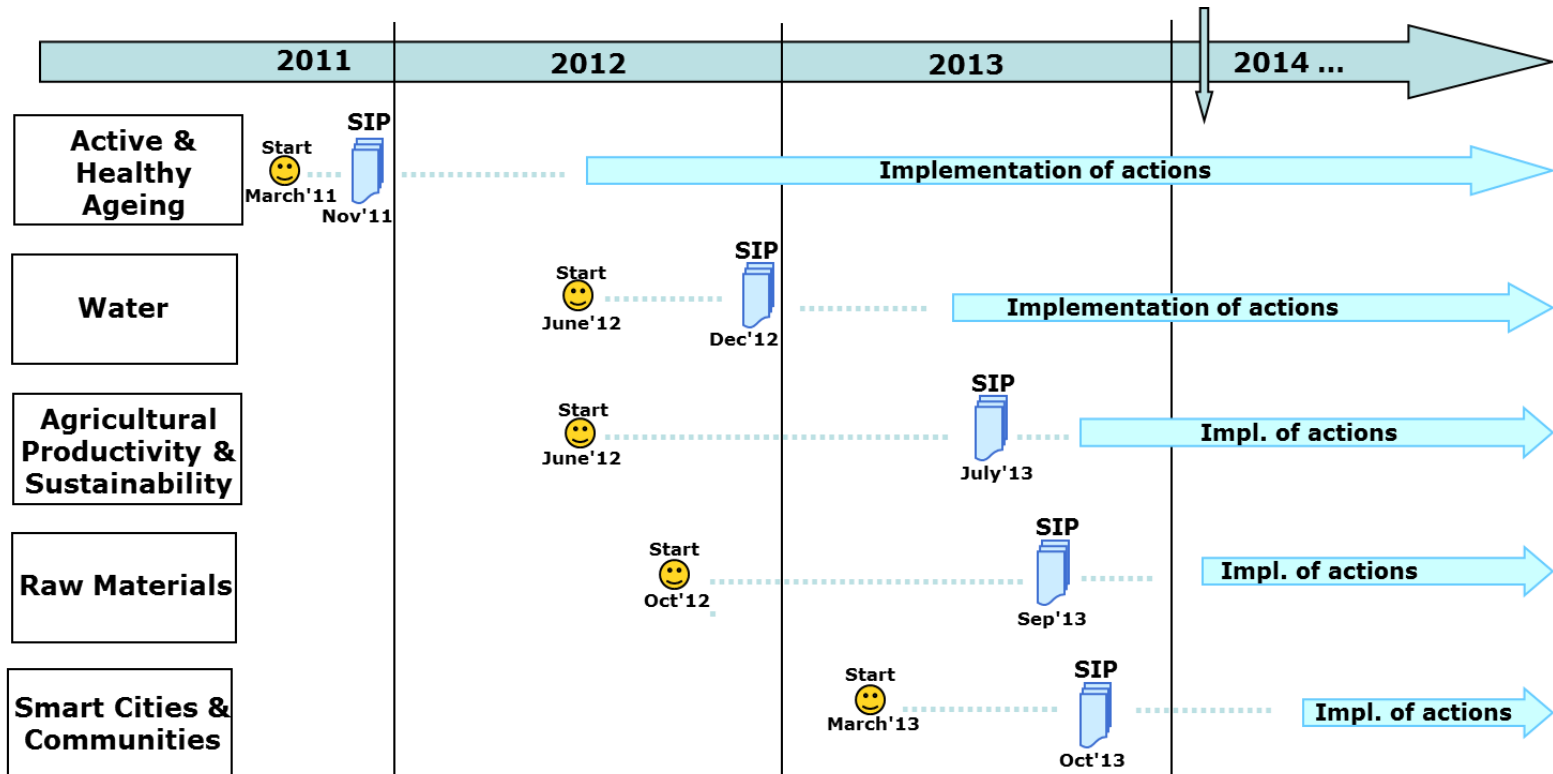
European Innovation Partnerships

To accelerate and scale up the development and deployment of innovative solutions to major societal challenges ...

... with an approach that is:

- *Challenge-driven*
inter-relating a critical mass of activities
- *Acting across the whole research and innovation chain*
mobilising a wide group of stakeholders across supply and demand
- *Adding value to existing instruments and initiatives*
existing initiatives are keeping their own identity and lifecycle and are contributing to the aims of the EIP

European Innovation Partnerships – Overall Progress



Start: Endorsement by Council (following Commission proposal)

SIP: Strategic Implementation Plan (issued by Steering Group)

Implementation of actions: Execution of priority actions (following 'Invitations for Commitments', forming 'Action/Operational Groups', setting up 'Marketplaces', Conferences ...)

Reviewing our innovation policy

