

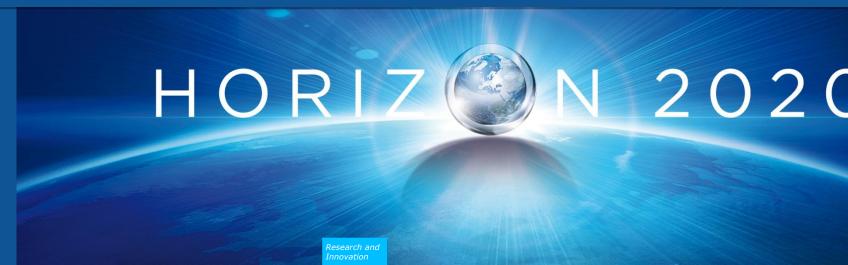
Horizon 2020

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Textile innovation Day Biella 12 March 012 The EU Framework
Programme for
Research and Innovation

2014-2020





What is Horizon 2020

- Commission proposal for a 80 billion euro research and innovation funding programme (2014-2020)
- A core part of Europe 2020, Innovation Union & European Research Area:
 - Responding to the economic crisis to invest in future jobs and growth
 - Addressing people's concerns about their livelihoods, safety and environment
 - Strengthening the EU's global position in research, innovation and technology





What's new

- A single programme bringing together three separate programmes/initiatives*
- Coupling research to innovation from research to retail, all forms of innovation
- Focus on societal challenges facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond.

*The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)





Three priorities:

- 1. Excellent science
- 2. Industrial leadership
- 3. Societal challenges





Priority 1. Excellent science

Why:

- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures





Proposed funding (million euro, 2014-2020)

European Research Council Frontier research by the best individual teams	13 268
Future and Emerging Technologies Collaborative research to open new fields of innovation	3 100
Marie Curie actions Opportunities for training and career development	5 572
Research infrastructures (including e-infrastructure) Ensuring access to world-class facilities	2 478





Priority 2. Industrial leadership

Why:

- Strategic investments in key technologies (e.g. advanced manufacturing, microelectronics) underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation
- Europe needs more innovative SMEs to create growth and jobs





Proposed funding (million euro, 2014-20)

Leadership in enabling and industrial technologies (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)	13 781
Access to risk finance Leveraging private finance and venture capital for research and innovation	3 538
Innovation in SMEs Fostering all forms of innovation in all types of SMEs	619 complemented by 6 829 (expected 15% of societal challenges + LEIT) and 'Access to risk finance' with strong SME focus





Priority 3. Societal challenges

Why:

- Concerns of citizens and society/EU policy objectives (climate, environment, energy, transport etc) cannot be achieved without innovation
- Breakthrough solutions come from multidisciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up





Proposed funding (million euro, 2014-2020)

Health, demographic change and wellbeing	8 033
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	4 152
Secure, clean and efficient energy*	5 782
Smart, green and integrated transport	6 802
Climate action, resource efficiency and raw materials	3 160
Inclusive, innovative and secure societies	3 819

^{*}Additional €1 788m for nuclear safety and security from the Euratom Treaty activities (2014-2018). Does not include ITER.





Horizon 2020 and partnering

Public private partnerships:

- Trough Joint Technology Initiatives or other formal structures (Art. 187)
- Trough contractual agreements, which provide inputs for work programmes
- Only when criteria met, e.g. clear commitments from private partners

Public public partnerships:

- Trough « ERA-Nets » for topping up individual calls/actions (replacing current ERA-Net, ERA-Net Plus, Inco-Net, Inno-net)
- Trough participation in joint programmes between Member States (Art. 185)
- Supporting agendas of Joint Programming Initiatives when in line with Horizon 2020
- Only when criteria met, e.g. financial commitments of participating countries

European Innovation Partnerships:

 Not funding instruments, but for coordination with broader policies and programmes





Next steps

Ongoing: Parliament and Council negotiations on the

basis of the Commission proposals

Ongoing: Parliament and Council negotiations on EU

budget 2014-2020 (including overall budget for Horizon 2020, current status 68-72 B€)

Ongoing: Final calls under 7th Framework Programme

for research to bridge gap towards Horizon

2020

Mid 2013: Adoption of legislative acts by Parliament

and Council on Horizon 2020

1/1/2014: Horizon 2020 starts, launch of first calls





Textiles in Horizon 2020

Excellent science

Marie-Curie Grants, Future and Emerging Technologies

Industrial leadership

Public private partnerships (Factories of the Future, Energy-efficient building), SME innovation schemes

Societal challenges

Health, Bio-economy, Energy, Transport





Thank you for your attention!

Find out more: www.ec.europa.eu/research/horizon2020