



# Horizon 2020

*The EU Framework  
Programme for  
Research and Innovation*

*2014-2020*

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Textile innovation Day  
Biella 12 March 012

HORIZON 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)

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

## Priority 2. Industrial leadership

*Why:*

- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) 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)

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



## 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 multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

## Proposed funding (million euro, 2014-2020)

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

**\*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](http://www.ec.europa.eu/research/horizon2020)***