



HORIZON 2020

**The New EU
Framework Programme for
Research and Innovation**

2014-2020

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HORIZON 2020



Main topics

- Innovation Union – turning the European Union into an Innovation Union
- Horizon 2020 – the future EU Framework programme for Research & Innovation (2014-2020)
- Opportunities for Eastern Partnership Countries

Turning the European Union into an Innovation Union

Innovation Union flagship initiative aims at creating the best framework conditions for Europe's researchers and entrepreneurs to innovate

34 commitments:

- Speeding up standardisation
- Making better use of and 'modernising' public procurement procedures
- Creating a real internal market for venture capital
- Agreeing on a unified European patent
- Completing the European Research Area (ERA)

Completing the European Research Area

2012 Commission Communication 'A Reinforced European Research Area Partnership for Excellence and Growth' lists 5 priorities:

- Effective national research systems including increased competition based on excellence and greater investment in research
- Optimal transnational co-operation and competition: common research agendas on grand-challenges and running effectively key research infrastructures
- An open labour market for researchers removing barriers to researcher mobility and training and to ensure open recruitment procedures
- Gender equality and gender mainstreaming in research
- Optimal Circulation and Transfer of Knowledge to guarantee access to and uptake of knowledge by all

Horizon 2020

- **The new European Union programme for research and innovation for 2014-2020**
- **A budget of just over €79 billion;** 30 per cent higher in real terms than the 2007-2013 period
- **Clear objectives:**
 - Responding to the economic crisis to invest in jobs and growth
 - Addressing people's concerns about their livelihoods, safety and environment
 - Strengthening the EU's global position in research, innovation and technology

Horizon 2020 - novelties

The new European Union programme for research and innovation for 2014-2020 – € 79 billion

- Challenge based
- Strong focus on SMEs
- Major simplification
- Open to the world



Three priorities



Priority 1. Excellent science (24.4 Billion Euro)

Why:

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

European Research Council <i>Frontier research by the best individual teams</i>	13.095
Future and Emerging Technologies <i>Collaborative research to open new fields of innovation</i>	2.696
Marie Skłodowska-Curie Actions <i>Opportunities for training and career development</i>	6.162
Research Infrastructures (including e-infrastructure- <i>Ensuring access to world-class facilities</i>	2.488

Priority 2. Industrial leadership (17 Billion Euro)

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

Leadership in enabling and industrial technologies <i>(ICT, nanotechnologies, materials, biotechnology, manufacturing, space)</i>	13.557
Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i>	2.842
Innovation in SMEs <i>Fostering all forms of innovation in all types of SMES</i>	616 <small>+complemented by expected 20% of societal challenges and LEITs + 'Access to risk finance' with strong SME focus'</small>

Priority 3. Societal challenges (30 Billion Euro)

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

Health, demographic change and wellbeing	7.472
Food security, sustainable agriculture, marine and maritime and inland water research and the bioeconomy	3.851
Secure, clean and efficient energy	5.931
Smart, green and integrated transport	6.339
Climate action, environment, resource efficiency and raw materials	3.081
Inclusive, innovative and reflective societies	1.310
Secure societies	1.695
<i>Science with and for society</i>	462
<i>Spreading excellence and widening participation</i>	816

Major Simplification for the benefit of applicants

- **A single set of rules for all funding under Horizon 2020**
 - Fewer, more flexible, funding instruments
- **Simpler reimbursement: 1 project = 1 funding rate**
 - Non-profit legal entities can also receive 100% in innovation actions
 - Single flat rate for indirect costs (25% of eligible costs)
 - 100% of the total eligible costs (70% for innovation actions)
- **Faster time to grant**
 - Within eight months of call deadline
- **Fewer, better targeted controls and audits**
- **Coherent implementation**
 - Through dedicated agencies
 - Single IT system
- **Simplification in grant agreements**

Horizon 2020 - International Cooperation

Need to engage **more actively and strategically** with partners from outside the EU

Three main **objectives**:

- Tackle jointly global societal challenges
- Strengthen excellence and attractiveness in research and innovation as well as to foster industrial and economic competitiveness
- Support to the EU's external policies – science diplomacy

International cooperation: implementation

- **Principle of general openness**
the programme will remain the most open funding programme in the world
- **Open to the association of enlargement countries / EFTA / European Neighbourhood (and others associated to FP7)**
- **Targeted actions** to be implemented taking a strategic approach to international cooperation through the **definition of joint cooperation roadmaps**



Participation of the Eastern Partnership Countries (EaP) in Horizon 2020

Main objective: to facilitate the integration and alignment of the **EaP countries** with the European Research Area as contribution to the development of a Common Knowledge and Innovation Space



Eastern Partnership: cooperation roadmap

New dedicated **Panel on Research and Innovation**, attached to the EaP Platform 4: 'Contacts between People'

- Bi-regional policy dialogue gathering officials from EU Member States and the 6 EaP countries
- Identification of **joint priorities** based on the principles of co-ownership and mutual interests
- First meeting held in Brussels on 23 November 2013; second meeting planned in Brussels on 21 May 2014

Opportunities for Eastern Partnership Countries in Horizon 2020/Work Programme 2014-2015

Capitalise on the S&T strengths of the EaP countries, for example:

- Marie Skłodowska-Curie (Pillar I)
- New materials/nanotechnology (Pillar II, KETs)
- ICT (Pillar II, KETs)
- Health (Pillar III, challenge 1)
- Secure, clean and efficient energy (Pillar III, challenge 3)

Thank you for your attention!

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Find out more:

www.ec.europa.eu/research/horizon2020