



Preparing for Horizon 2020

WBC Steering Platform on Research Budva, 5-6 June 2013

DG RTD

A graphic for Horizon 2020 featuring a globe of the Earth in the center, surrounded by a blue and white light effect. The text "HORIZON 2020" is written in large, white, sans-serif capital letters across the middle of the image, with the globe acting as the letter 'O' in "HORIZON".

HORIZON 2020

Research and
Innovation



Horizon 2020:

(1) Latest developments and novelties

DG RTD

A large graphic for Horizon 2020. The word "HORIZON 2020" is written in large, white, sans-serif capital letters. The letter "O" in "HORIZON" is replaced by a transparent globe of the Earth. The text is set against a background of a blue sky with a bright sunburst effect emanating from behind the globe. The bottom of the image shows the curvature of the Earth's horizon.

HORIZON 2020

Research and
Innovation

What is Horizon 2020

- **Commission proposal (30/11/2011) for a 80 billion euro research and innovation funding programme (Strategy 2014-2020)**
- **A core part of Europe 2020 Innovation Union flagship:**
 - **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

Horizon 2020 - Priority 1. Excellent science (28 Billion Euro)

Why:

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

European Research Council	13 268
<i>Frontier research by the best individual teams</i>	
Future and Emerging Technologies	3 100
<i>Collaborative research to open new fields of innovation</i>	
Marie Curie actions*	5 752
<i>Opportunities for training and career development</i>	
Research infrastructures (including e-infrastructure) <i>Ensuring access to world-class facilities</i>	2 478

Horizon 2020 - Priority 2. Industrial leadership (20 Billion Euro)

Why:

- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin 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 (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)	13 781
Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i>	3 538
Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i>	619

Horizon 2020 - Priority 3. Societal challenges (36 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	8 033
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	4152
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	3819

Role of the EIT and JRC in Horizon 2020

<i>European Institute Technology (EIT)</i> Combining research, innovation & training in knowledge and Innovation Communities	1 360+ 1 440*
<i>Joint Research Centre (JRC)**</i> Providing a robust, evidence base for EU policies	1 962

****Second tranche pro rata from LEIT and Societal challenges (subject to review)***

*****Additional €656 m for the JRC to be funded from the Euratom Treaty activities***

Euratom Programme 2014-2018

Budget: TOTAL: € 1665 million, including Fission €336m; Fusion € 673m; JRC € 656m.

Programme for 5 years, in line with the Euratom Treaty (art.7)

What is new?

- Stronger focus on nuclear safety and nuclear training
- A single Euratom programme bringing together three separate decisions
- The same rules for participation as in the Horizon 2020 - simplified access
- Programme contributes to the implementation of priorities of the 'Horizon 2020'
- Fusion research programme will be restructured

Funding for ITER outside MFF in a separate supplementary programme: € 2573 million for 2014-2018

Links to COSME

Horizon 2020 and COSME are complementary programmes to generate growth and jobs

Different focus:

- Horizon 2020 = innovation driven growth
- COSME = support to create favourable business environment and competitiveness

Closely coordinated, for instance:

- Integrated financial instruments (debt and equity), with facilities in both programmes serving complementary objectives
- Enterprise Europe Network set up under COSME, but support to SMEs for EU funding

International cooperation

- **International cooperation is crucial** to address many Horizon 2020 objectives.
- **Principle of general openness:** the programme will remain to be the most open funding programme in the world.
- Horizon 2020 shall be open to the **association** of: acceding countries, candidate countries and potential candidates and selected third countries that fulfil the relevant criteria (capacity, track record, close economic and geographical links to the Union, etc.).
- Targeted actions to be implemented taking a **strategic approach to international cooperation** (dedicated measures in the 'Inclusive, innovative and secure societies' challenge).

Multiannual Financial Framework

The process: Council decides, EP must give its consent.

- **European Council conclusions (8 February):** political agreement of Heads of State and Government on the MFF as a whole with indications on specific parts, such as Heading 1a that includes Horizon 2020.
- **Commission (27 March):** Horizon 2020 estimated at € 70,2 billion.
- **EP/Council/Commission:** negotiations currently on
 - Flexibility
 - A revision clause
 - Own resources
 - Unity of the budget

Horizon 2020 : Council / European Parliament– State of Play

Three Partial General Approaches reached by Council in 2012 on:

- **Framework Programme Regulation (31 May 2012)**
- **Rules for Participation and Dissemination (10 October 2012)**
- **Specific Programme (11 December 2012)**

On the Euratom Programme, the examination of the Presidency compromise text on Euratom is on-going in the Research Working Party.

The ITRE Committee adopted on 28 November 2012 four reports of the Horizon 2020 package:

Framework Programme Regulation (Rapporteur: Ms Riera Madurell); Specific Programme (Rapporteur: Ms Carvalho); Rules for the participation and dissemination (Rapporteur: Mr Ehler); Euratom (Rapporteur: Mr Skinner)

Seven trilogues between EP/Council/Commission took place since January 2013 on the Framework programme and the Rules for participation and dissemination.

Main outstanding issues

- Funding model
- Budgetary allocation / earmarking
- Derogations for JTIs
- The SME instrument
- Fast track to innovation
- Widening participation / Science with and for society
- Some new actions lines (e.g. marine and maritime research)

Next steps

Ongoing: Parliament and Council negotiations on MFF 2014-2020 (including Horizon 2020 budget, provisionally estimated at €70,2 bn)

Fall 2013:

- Agreement on the MFF 2014-2020
- Adoption of legislative acts by Parliament and Council on Horizon 2020

End 2013: Launch of first calls



Find out more:

ec.europa.eu/research/horizon2020

ec.europa.eu/research/internationalstrategy



**Thank you for
your attention!**