



Horizon 2020

*The EU Framework
Programme for
Research and Innovation*

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Unit K4 – Nuclear Fission

2014-2020

HORIZON 2020

Research and
Innovation

Multiannual Financial Framework 2014-2020

***Key Challenge:** stabilise the financial and economic system while taking measures to create economic opportunities*

- **Smart & inclusive growth (€491bn)**
 - Education, Youth, Sport
 - Connecting Europe
 - Cohesion
 - Competitive Business SMEs
 - **Horizon 2020**
- **Sustainable growth, natural resources (€383bn)**
- **Security and citizenship (€18.5bn)**
- **Global Europe (€70bn)**
- **Administration (€62.6bn)**

TOTAL: €1.025bn



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

Priorities



1. Excellent science (EUR 24418 million)

European Research Council, Future and Emerging Technologies, Marie Curie actions & Res. Infrastructures

2. Industrial leadership (EUR 17938 million)

Industrial technologies (ICT, nanotechnologies, materials, biotechnology, manufacturing, space), risk finance for R&I & SMEs

3. Societal challenges (EUR 31748 million)

Health, demographic change and wellbeing; Food security, agriculture, marine res. & bioeconomy; **Energy (non-Euratom) EUR 5782 million,** Transport; Climate, resources & raw materials and Society

+ **European Institute Technology (EIT)** (EUR 2.8 billion)

+ **Joint Research Centre (JRC)** (EUR 1962 million)

+ **Euratom (€1788 million),** ITER (other proposal €2573 million)



Budget: TOTAL: € 1788 million, including Fission €355 million; Fusion € 710 million; JRC € 724 million.

General objective:

- Improve nuclear safety, security & radiation protection
- Contribute to the long-term decarbonisation of the energy system, in a safe, efficient and secure way

Specific objectives for indirect actions (fission):

- support **safe operation** of nuclear systems;
- contribute to development of solutions for the **management of ultimate waste**;
- support development and sustainability of **nuclear competences**;
- foster **radiation protection**;
- promote **innovation and industrial competitiveness**
- ensure availability and use of **research infrastructures**



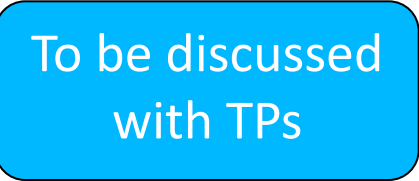
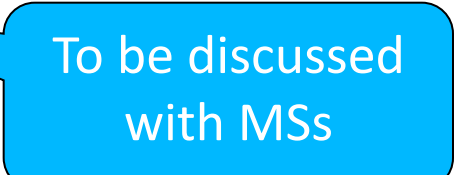
- Specific instrument envisaged by the Rules for Participation

Programme co-fund action - for supplementing calls or programmes funded by entities other than EU bodies managing research and innovation programmes

See for example EMRP (emrponline.eu)

- Support for indirect actions instruments provided for by the New Financial Regulation
- Also complementary use of Structural Funds (relation with national Operational Programmes)



- The essential element for implementing the actions
- Detailed objectives, associated funding
- Multi-annual approach & strategic orientations for the following years of implementation
- Links with the platforms' SRAs? 
- Possible co-fund actions? 
- Cross-cutting, regional or international activities?

WP 2014 expected in summer 2013

Input based on symposium in 2013 "Benefits and limitations of nuclear fission research for a low carbon economy fission research"

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)
- Mid 2012:** 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**



Thank you for your attention!

Find out more:

www.ec.europa.eu/research/horizon2020