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Horizon 2020 and the International cooperation

Webinar on Horizon 2020, November 7th 2013



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What is Horizon 2020?

- Initial Commission proposal for a €80 billion research and innovation funding programme (2014-2020); now just over €70 billion
- 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



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What is 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





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Priority I: Excellent Science

| | |
|---|---------|
| European Research Council <i>Frontier research by the best individual teams</i> | 17 % |
| Future and Emerging Technologies <i>Collaborative research to open new fields of innovation</i> | 3,5 % |
| Marie Skłodowska Curie Actions <i>Opportunities for training and career development</i> | 8 % |
| Research infrastructures (including e-infrastructures) <i>Ensuring access to world classe facilities</i> | 3,23 % |
| | 31,73 % |



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Priority II: Industrial Leadership

| | |
|---|--------|
| Leadership in enabling and industrial technologies (LEITs) (ICT, nanotechnologies, materials, biotechnology, manufacturing, space) | 17,6 % |
| Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i> | 3,69 % |
| Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i> | 0,8 % |
| 22,09 % | |

Priority III: Societal Challenges



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| | |
|---|---------|
| Health, demographic change and wellbeing | 9,7 % |
| Food security, sustainable agriculture, marine and maritime research & the Bioeconomy | 5 % |
| Secure, clean and efficient energy | 7,7 % |
| Smart, green and integrated transport | 8,23 % |
| Climate action, resource efficiency and raw materials | 4 % |
| Inclusive and reflective societies | 1,7 % |
| Secure societies | 2,2 % |
| Science with and for society | 0,6 % |
| Spreading excellence and widening participation | 1,06 % |
| | 39,13 % |



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Simplification: summary

- **Single set of simpler and more coherent participation rules**
- New **balance between trust and control**
- Moving from several **funding rates** for different beneficiaries and activities to just two
- Replacing the four methods to calculate overhead or «indirect costs» with a **single flat rate**
- **Successful applicants to get working more quickly:** time-to-grant of 8 months; exceptions for the ERC and in duly justified cases



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Horizon 2020 Work Programme is different

- A strong challenge-based approach, allowing applicants to have considerable freedom to come up with innovative solutions
- Simplified list of possible types of action (e.g. research and innovation -100%; innovation actions - 70%,...)
- Less prescription, strong emphasis on expected impact
- Broader topics
- Cross-cutting issues mainstreamed (e.g. social sciences, gender, international...)



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A « user friendly » Work Programme

- Aiming for a coherent approach, in both content and design, to ensure that the Work Programme is “user friendly”
 - Simplified presentation, focused calls, broader topics each with a number of projects to be funded
 - Relevant to a wide range of different types of participants
 - And readily accessible to users, especially newcomers

Efforts to enhance presentation of calls on web, for example:

- *Tagging for smart searching*
- *glossary*
- *FAQ etc*



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International Cooperation



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A new strategy for international cooperation in R&I

- Communication adopted on 14 September 2012
- Key novelties
 - General opening of Horizon 2020, but with more restricted approach to automatic funding
 - Targeted activities with scale and scope to achieve impact
 - Multi-annual roadmaps for key partner countries/regions
 - Stronger partnership with Member States
 - Common principles
 - Stronger role for Union in international organisations and multilateral fora
 - Strengthen implementation, governance, monitoring and evaluation



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Dual approach

Openness:

- Horizon 2020 open to participation from across the world
- Restricted list of countries whose entities are eligible for automatic funding from Union budget

Targeted actions:

- Identifying areas for international cooperation on the basis of the Union's policy agenda
 - Flexible differentiation by countries/regions to provide further focus
- multi-annual roadmaps for cooperation with key partners



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Ukraine

Different type of countries

Enlargement and neighbourhood countries, and EFTA

- Focus on alignment with the ERA
- Support enlargement and neighbourhood policies (support to developing a common 'Knowledge and Innovation Space')

Industrialised countries and emerging economies

- Focus on competitiveness
- Tackle global challenges
- Business opportunities and access to new markets

Developing countries

- Support development policy by building partnerships contributing to sustainable development
- Address relevant challenges (e.g. poverty-related diseases, energy and food security, biodiversity)



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Instruments (II)

- Policy instruments
 - more strategic use of S&T agreements with key third countries
 - strategic partnerships (e.g. Ukraine)
 - increased synergies across the Commission, more visibility for STI in general cooperation frameworks
- Funding instruments
 - collaborative projects (third country participation required and/or taken into account in evaluation)
 - networking between projects
 - joint initiatives of Union and third countries: coordinated calls ; joint calls ; contribution of Union to third country/international organisations ; specific initiatives e.g. ERA-NETs, Article 185...



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Where in Horizon 2020 ?

Excellent science

- ERC open to researchers from all over the world - research to be carried out mostly in Member States or Associated Countries
- Marie Skłodowska-Curie Fellowships : strong international dimension
- Development of global research infrastructures (Carnegie Group)

Targeted activities in societal challenges and industrial leadership

- Projects with required or preferential 3rd country participation
- Joint calls, delegated management, ERA-NET, Art 185

Dedicated cross-cutting actions – Inclusive, Innovative and Secure Societies challenge

- Support for to policy dialogue
- Networking and twinning activities
- Coordination of EU and MS/AC international cooperation policies
- Strengthening of European presence in international partner countries

INT 1
Coordination and
support Action
with Ukraine



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Websites

Horizon 2020 :

http://ec.europa.eu/research/horizon2020/index_en.cfm

Communication on international cooperation:

http://ec.europa.eu/research/iscp/pdf/com_2012_497_communication_from_commission_to_inst_en.pdf

International Cooperation:

<http://ec.europa.eu/research/iscp/index.cfm?lg=en>



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Thank you for your attention !

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