Accessing Horizon 2020 Research Funding for the Global Community

TODAY’S SESSION PRESENTED BY:

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Agenda

- INTRODUCTION
- THE EU FRAMEWORK PROGRAM OVERVIEW
- HORIZON 2020 OVERVIEW
- HOW TO PARTICIPATE IN HORIZON 2020?
- QUESTIONS
What do you know about the Framework Programme (FP)?

The Framework Programmes for Research and Technological Development, also called Framework Programmes or abbreviated FP1 through FP7 with "FP8" being named "Horizon 2020", are funding programmes created by the European Union/European Commission to support and foster research in the European Research Area (ERA). The specific objectives and actions vary between funding periods. In FP6 and FP7 focus was still in technological research, in Horizon 2020 the focus is in innovation, delivering economic growth faster and delivering solutions to end users that are often governmental agencies.
Framework Programmes
Key element of research policy in Europe

• The First Framework Programme for research funding started in 1984.
• Since then scope and scale has been expanded – matching the evolution of EU itself.
• In 1986, the Single European Act included for the first time a specific chapter on research, which put the emphasis on applied research aiming at supporting the competitiveness of European industry.
• In the 1980s there was only a small programme to support fundamental research. By 2007, the European Research Council (ERC) had been launched. The ERC, which represents 17 % of the EUR 80 billion budget of the current Horizon 2020 Framework Programme, supports fundamental research carried out by individual teams.
EU Framework Programmes

MILESTONES

Treaty establishing the European Coal and Steel Community (ECSC) signed. It provides for the funding of research for the coal and steel industries.

Treaty establishing the European Atomic Energy Community (EURATOM) signed. It provides for research into nuclear energy between countries.

Erasthe Daumirghon becomes European Commissioner for Internal Affairs and Energy and decides to rationalise research funding under a single framework. The Joint Research Centre (JRC) is launched.

Single European Act signed. It includes the First Framework Programme in an EU Treaty, a chapter on research.

The Lisbon European Council launches the European Research Area (ERA).

Treaty on the European Union (Treaty of Lisbon) signed. The European Research Council (ERC) is launched. It funds frontier research.
500 million people, 28 countries, a single market*

- 7% of the World's population
- 24% of world expenditure on research
- 32% of high-impact publications
- 32% of patent applications

*Free movement of people, goods, services, capital and knowledge
EU Investment in R&D

Gross domestic expenditure on R&D (R&D intensity), EU-28, 2002-14

Source: Eurostat online data code
Horizon 2020
https://ec.europa.eu/programmes/horizon2020/
Multilateral Cooperation

28 Member-States (MS)

16 Countries Associated to the framework programme (AC)

Horizon 2020 = more than 40 Countries to collaborate with on Research and Innovation
Structure of Horizon 2020

1- Excellent science
   €24.4 billion

2- Industrial leadership
   €17 billion

3- Societal challenges
   €31 billion

Researchers driven:
Excellent science is the foundation of tomorrow’s technologies, jobs and wellbeing

Industry driven:
Strategic investments in key technologies
Support to innovative companies

Society driven:
Address concerns of citizens and society/EU policy objectives
Multidisciplinary collaborations
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

• H2020 shall be open to the **association** of: acceding countries, candidate countries and selected international partner 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 society’ challenge)
HORIZON 2020
(2014 – 2020)

EXCELLENT SCIENCE
- European Research Council (ERC)
- Future and Emerging Technologies (FET)
- Marie Curie Actions
- Research Infrastructures

INDUSTRIAL LEADERSHIP
- Enabling and industrial technologies
  - Information and communication Technologies
  - Nanotechnologies
  - Advanced materials
  - Biotechnology
  - Advanced manufacturing and processing
  - Space
- Access to risk finance
- Innovation in SMEs

SOCIETAL CHALLENGES
- Health, demographic changes and Wellbeing
- Food security, sustainable agriculture, marine, maritime research and the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Europe in a changing world: Inclusive, innovative and reflective societies
- Secure societies – Protecting freedom and security of Europe and its citizens
How to participate in H2020?

STEP 1: Register your organization online on the ”Participant Portal”

STEP 2: Receive a Participant Identification Code (PIC)

STEP 3: Validate your PIC

STEP 4: Appoint a LEAR and an L-SIGN
What happens after I get a PIC?

Find a relevant call (annual work programme)  
Form a consortium*  
Submit a proposal  
Be selected & Get involved!

= OPEN COMPETITION + PEER REVIEW
List of open calls for proposals

<table>
<thead>
<tr>
<th>Call Title</th>
<th>Publication Date</th>
<th>Deadline Date</th>
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<tbody>
<tr>
<td>EU-Japan Research and Development Cooperation in Net Futures H2020-RIU-2014</td>
<td>07/09/2014</td>
<td>18/04/2014</td>
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<td>Call for Nanotechnologies, Advanced Materials and Production H2020-NMP-ERA-NET-2015</td>
<td>13/12/2013</td>
<td>27/02/2015</td>
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<td>Call for Nanotechnologies, Advanced Materials and Production H2020-NMP-GV-2014</td>
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<td>07/16/2014</td>
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<td>Call for Nanotechnologies, Advanced Materials and Production H2020-NMP-CSA-2015</td>
<td>11/12/2013</td>
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Example of a Work Programme (LEIT)
Understanding the call topics

PHC 2 – 2015: Understanding diseases: systems biology

Specific challenge: The development of new, integrated, and system biology approaches and medical research in (bi)medicine. An approach that could help to assemble the various aspects of biological and medical research into an integrated, collaborative approach is required to assemble the various aspects of biological and medical research into a system biologist. (bi)medicine approaches.

Scope: Proposals should focus on new avenues for research phenotypes in multifactorial diseases and/or development/optimisation and/or application of new tools for biomedical and clinical data to produce or refine computational and mathematical approaches. They should be validated in well-phenotyped patient cohorts, taking potential thoroughly investigated.

The Commission considers that proposals requesting EUR 4 and 6 million would allow this specific challenge to be addressed. Nonetheless, this does not preclude submission of proposals for lower amounts.

Expected impact: This will provide:
- Leveraging of existing investments in EU biomedical research and innovation
- New directions for better disease detection and treatment
- Systems medicine tools and approaches that represent an improvement over current approaches

Type of action: Research and Innovation action
From Call to Grant

Publication of the calls

Time to prepare the proposal

Submission of proposals

Evaluation

Signature grant agreement

Finalisation of the grant

Information on the outcome of the evaluator
Horizon 2020 and the US

U.S. Participation Possibilities

- ERC grantees
- Marie Skłodowska-Curie Action
  - As fellows / associated partners / hosts
- Collaborative projects
  - Full partner / third party / subcontractor in all areas of H2020
- Funding
  - Not available, as a rule, to participants from non-European industrialized countries
- Exceptions:
  - Health Research
  - Research Infrastructure Integrating Activities
  - Ad hoc exceptions
  - Subcontractors
Third Country Focus: US Participation

- US Entities are considered a Third Country for all projects.
- US Entities may qualify for funding:
  - if the USA is explicitly identified in the relevant work programme and call for proposal as eligible or
  - their participation is deemed by the European Commission to be essential for carrying out the action.
  - when participating in the health programme on the basis of a reciprocal EU - US/NIH arrangement US-partners are eligible for funding for all calls under the Societal Challenge ‘Health, demographic change and well-being’
Third Country Focus: US Participation

- Leverage existing or reciprocal Research Partnerships
- Consider Hosting a MSCA Fellow
- Participating is not just about funding but rather engaging on a global stage. Be aware as a new participant that the administrative learning curve is high.
- Make sure you push for budget early.
- Be honest with your partners and collaborators about your knowledge of EU grants.
- Ask questions! If you don’t understand your requirements, make sure the coordinator knows.
Resources for the Global Community

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<td><a href="http://www.euusscienceandtechnology.eu/">http://www.euusscienceandtechnology.eu/</a></td>
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Horizon 2020 and a third country – Why bother, what are the benefits?

Connect teams and individual researchers with Europe’s excellence in research and innovation and increase research quality globally.

Access to Europe’s expertise, equipment, facilities, data, infrastructures, and world-leading scientific networks.

Boost your individual researcher career through mobility and researcher staff exchange, business and commercialisation opportunities.

Work together with European partners on tackling most pertinent societal challenges affecting your country.
Implementing Arrangement

IMPLEMENTING ARRANGEMENT
BETWEEN
THE GOVERNMENT OF THE UNITED STATES OF AMERICA
AND
THE EUROPEAN COMMISSION
FOR COOPERATION
BETWEEN RESEARCHERS
FUNDED SEPARATELY BY THE UNITED STATES AND THE EUROPEAN UNION’S
FRAMEWORK PROGRAMMES ON RESEARCH AND INNOVATION

.... The US Government looks forward to continue the discussions with you and your team as you plan for FP9. We hope that through further discussions in advance of FP9, we can return to an approach that would support enhanced U.S.-EU S&T cooperation. ....

Dr. John Holdren
Director, White House office of Science and Technology Policy
Implementing Arrangement: in a nutshell

• The *Implementing Arrangement* aims to enable research partnerships between U.S. Research institutions and Horizon2020 participants.
  ✓ refers to U.S. researchers not receiving funding from Horizon2020 but wanting to collaborate with Horizon2020 consortiums.

• The participating EU and US institutions
  ✓ cooperate in accordance with applicable laws, rules, policies and regulations of their respective funding program
  ✓ Administrative and scientific reportings in accordance with rules and regulations of such funding body.
  ✓ are encouraged to reach a common understanding in respect of IP, data access and data dissemination as well as other matters essential to research collaboration governance.

• Funding of collaborative activities by either the US Government or the EC does not depend on a successful award from the other side.
Implementing Arrangement: FAQ

Information & support

• **EU Delegation Website**

• **Horizon 2020 website**

• **Participant Portal**
THANK YOU!

COPIES OF THE SLIDES, THE ONDEMAND WEBINAR AND INSTRUCTIONS ON ACCESSING THE POST WEBINAR DISCUSSION JUNE 26-30, 2017 CAN BE FOUND AT:

HTTP://WWW.NCURA.EDU/GLOBAL/NCURAGLOBALWEBINAR.ASPX