Big picture of Horizon 2020

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Overview

1. **Structure of Horizon 2020**
2. **Basic rules of participation**
3. **International cooperation aspects**
4. **Individual opportunities**
5. **Collaborative opportunities**
6. **SME opportunities**
7. **Strategy & hints**

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

PACE-Net Plus is a project funded by the European Commission to reinforce EU-Pacific cooperation on Science, Technology & Innovation, and to promote the development of mutually beneficial partnerships. Grant agreement n° 609490.

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Quick facts

- **Budget:** €70+ billion
- **Duration:** 2014-2020
- **Participants:** global
- **Success rate:** 10-20% (for previous FP7)
- **Fields of research:** all (including SSH)
- **Funding:** 100% + 25%
- **Calls:** first calls closing now (Mar-Apr), second calls already open in advance
- **General information:** *ec.europa.eu/programmes/horizon2020*

1. Structure of Horizon 2020

Excellent Science

- European Research Council (ERC)

- Future and Emerging Technologies (FET)

- Marie Skłodowska-Curie actions (MSCA)

- European Research Infrastructures, including e-Infrastructures

1. **Structure of Horizon 2020**

Industrial Leadership

- Leadership in Enabling and Industrial Technologies (LEIT)
  – Information and Communication Technologies (ICT)
  – Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
  – Space
- Access to risk finance
- Innovation in SMEs

1. Structure of Horizon 2020

Societal Challenges (SC)

1. Health, Demographic Change and Wellbeing
2. Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
3. Secure, Clean and Efficient Energy
4. Smart, Green and Integrated Transport
5. Climate Action, Environment, Resource Efficiency and Raw Materials
6. Europe in a changing world – Inclusive, innovative and reflective societies
7. Secure societies – Protecting freedom and security of Europe and its citizens

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1. Structure of Horizon 2020

Spreading Excellence and Widening Participation

Science with and for Society

European Institute of Innovation and Technology (EIT)

Euratom

2. Basic rules of participation

http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/rules_participation/h2020-rules-participation_fr.pdf

- Minimum 3 independent legal entities, established in 3 separate EU Member States or Associated Countries
    - Plus any other legal entity from any country (unless excluded by the EC)
- For ERC & MCSA individual grants, only 1 legal entity is required
- Other exceptions are noted in individual calls

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2. Basic rules of participation

Automatic and full funding for participants from:

- EU Member States
  - including OCTs (inc. New Caledonia & French Polynesia)
- Horizon 2020 Associated Countries
  - Albania, Bosnia & Herzigovina, Faroe Islands, FYRoM, Iceland, Israel, Liechtenstein, Moldova, Montenegro, Norway, Serbia, Turkey
- Plus all other countries listed in [2] above (this includes most PICTs)

Notable exceptions:

- Andorra, Australia, Brazil, Canada, China, India, Japan, Mexico, Monaco, New Zealand, Russia, San Marino, Saudi Arabia, Singapore, South Korea, Switzerland[*], Taiwan, UAE, USA, Vatican

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2. Basic rules of participation

Evaluation of proposals based on:

a. Excellence

b. Impact

c. Quality & efficiency of implementation

Different weightings depending on call, e.g.:

- innovation actions may focus on Impact

- ERC grants only consider Excellence

3. International cooperation aspects

- Horizon 2020 is open to participants from *all* countries
- Coordinator can be from any country, but usually Member State or Associated Country
- Many call topics will target specific countries/regions
- EC may exclude some countries from participation (e.g. joint calls)
- EC may allow funding for some countries
- EU participants sign contract under EU law, but other countries sign contract under Belgian law

3. International cooperation aspects

Funding to countries such as Australia, China, USA, etc. is possible when:

- There is a specific bilateral agreement that includes funding,

- The call topic allows for it, or

- Their participation is essential to address the topic (e.g. global leader, infrastructure, location, unique data)

4. Individual opportunities

European Research Council (ERC)

- *erc.europa.eu*
- Investigator driven grants for the best researchers (Excellence)
- Highly prestigious, highly competitive
- Any research topic, any field
- Any researcher of any nationality can apply
- Portable grant

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4. Individual opportunities

- Must undertake the project at a host institution in MS/AC (including private enterprise)

- Can include international partners (with funding)

- Must spend at least 50% (30% for AdG) of time working on project, and 50% of time in MS/AC– i.e. joint appointments are possible

- Funding for up to 5 years

- **Starting Grant (StG)**, 2-7 years after PhD, €1.5 million + €0.5 million

- **Consolidator Grant (CoG)**, 7-12 years after PhD, €2 million + €0.75 million

- **Advanced Grant (AdG)**, €2.5 million + €1 million

4. Individual opportunities

Marie Skłodowska-Curie actions (MSCA)

(covered in another presentation)

- Excellent mechanism for building lab-lab relationships and long-term collaborations

- Ideal for promoting mobility amongst regional research partners in the Pacific

5. Collaborative opportunities

- Topics are prescribed by the EC

- Calls usually open July, open for 3-6 months

- Many different types of projects:
  - Networks on topics, or in regions
  - Coordination actions
  - Collaborative projects (5-60 partners)

5. Collaborative opportunities

Step 1: Read the *Work Programme*

Step 2: Contact colleagues

Step 3: Attend *InfoDay* in Europe

Step 4: Build consortium

Step 5: Develop & submit proposal

Step 6: Evaluation

Step 7: *Negotiation* with EC, sign *Grant Agreement*

Step 8: Start project

5. Collaborative opportunities

Major calls for 2015 in PACE-Net Plus priority areas:
- Personalising health and care
- Blue Growth: Unlocking the potential of seas and oceans
- Sustainable food security
- Innovative, sustainable and inclusive bioeconomy
- Water Innovation: Boosting its value for Europe
- Growing a low carbon, resource efficient economy with a sustainable supply of raw materials
- Waste: A resource to recycle, reuse and recover raw materials

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5. Collaborative opportunities

Other interesting areas:

- Biotechnology
- Nanotechnologies, advanced materials and production
- Earth observation
- Factories of the future
- Energy-efficient buildings
- Information and communications technologies

5. Collaborative opportunities

- Smart cities and communities
- Competitive low carbon energy
- Mobility for growth
- Green vehicles
- New forms of innovation
- Reflective societies: cultural heritage and European identities

5. Collaborative opportunities

- The young generation in an innovative, inclusive and sustainable Europe

- Overcoming the crisis: new ideas, strategies and governance structure for Europe

- Europe as a global actor

- Fight against crime and terrorism

- Border security and external security/disaster-resilience: safeguarding and securing society, including adapting to climate change

- Digital security: cybersecurity, privacy and trust

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5. Collaborative opportunities

How to find call topics?

- Go to the Participant Portal
ec.europa.eu/research/participants/portal

6. SME opportunities

- Most parts of Horizon 2020 are equally open to all actors, including SMEs
- Think carefully about:
  - Time costs / financial capacity
  - Timeline of the project

Access to risk finance

- Support and training for SMEs
- Direct and indirect finance

Innovation in SMEs

- Support for *innovation management* – from idea to market

7. Strategy & hints

- Let an experienced coordinator do the hard work for the proposal

- Approach your EU colleagues & consider your regional partners

- Accentuate your unique assets / capabilities

- Politics

- Remember: Excellent, Impact, Quality

- Join a COST Action (*www.cost.eu*)

- Become an evaluator

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