

Review of Main Concepts

The new EU Framework Programme for Research and Innovation
2014-2020



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Building Bi-regional Partnerships for Global Challenges



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What is Horizon 2020?

- H2020 is the EU's programme for funding **research and innovation**
- 7 year programme: **2014-2020**
- Almost **€80 billion** available
- Goal of the programme is to ensure **Europe** produces world-class science and technology that drives economic growth
- Open for participation from around the world, **including researchers based in Africa**
- Built around 3 pillars: **Excellent Science, Industrial Leadership**, and **Societal Challenges**

I Excellent Science

- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie Actions
- European Research Infrastructures, including e-Infrastructures

II Industrial Leadership

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

III Societal Challenges

- Health, Demographic Change and Wellbeing
- Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
- Secure, Clean and Efficient Energy
- Smart, Green and Integrated Transport
- Climate Action, Environment, 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

Science with and for Society

Spreading Excellence and Widening Participation

European Institute
of Innovation and
Technology

Fast Track to
Innovation Pilot
(2015-2016)

Euratom

Building Bi-regional Partnerships for Global Challenges

Excellent Science

Aim to bolster the EU's position as a world leader in science, attract the best researchers, and help scientists collaborate and share ideas across Europe.

- **European Research Council: €13.095 billion**
 - Frontier research
 - Excellence is the sole criterion
 - Funding awarded for individual researchers or research teams
- **Marie Skodowska-Curie Actions: €6.162 billion**
 - Funding for training, mobility, or placement in company
 - Support offered for both you and experienced researchers
- **Future and Emerging Technologies: €2.696 billion**
 - Multi-disciplinary cooperation on new and future technologies
- **Infrastructures: €2.488 billion**
 - Pooling resources for large-scale infrastructure projects
 - Provides Europe's researchers with access to the very latest, state-of-the-art infrastructure

Industrial Leadership

Investing in promising and strategic technologies and encouraging businesses to invest more in research, and target areas where they can work with the public sector to boost innovation.

- **Leadership in enabling and industrial technologies: €13.557 billion**
 - **ICT:** Supporting ground-breaking technologies needed to underpin innovation across all sectors, including information and communication technology and space
 - **Nanotechnologies, etc.:** Supporting key enabling technologies for game-changing products
- **Access to risk finance: €2.842 billion**
 - Filling the ‘innovation gap’ through loans and guarantees, as well as by investing in innovative SMEs and small midcaps
- **Innovation in SMEs: at least €3 billion**
 - Supporting SMEs, or consortia of SMEs, assess the market viability of their ideas at the high-risk stage, and then to help them develop these ideas further

Societal Challenges

Seven priority challenges where targeted investment in research and innovation can have a real impact benefitting the citizen

- **Health, demographic change and wellbeing:** €7.472 billion
- **Food security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy:** €3.851 billion
- **Secure, Clean and Efficient Energy:** €5.931 billion
- **Smart, Green and Integrated Transport:** €6.339 billion
- **Climate Action, Environment, Resource Efficiency and Raw Materials:** €3.081 billion
- **Europe in a changing world – inclusive, innovative and reflective societies:** €1.309 billion
- **Secure societies – protecting freedom and security of Europe and its citizens:** €1.695 billion

Societal Challenges



- A difficult economic situation
- Calls are challenge based
 - Calls are less prescriptive, allowing plenty of scope to propose innovative solutions
- Greater emphasis on impact
- Integration of end-users and the market into project activities

New types of consortia and new types of participants necessary!

Eligible Applicants

- Legal entities from EU Member States and Associated Countries
 - A **legal entity** is defined as “any natural person, or any legal person created and recognised as such under national law, European Union law or international law, which has legal personality and which may, acting in tis own name, exercise rights and be subject to obligations
- Legal entities established in International Cooperation Partner Countries (ICPC-INCO), including African countries
 - If provided for in a Strategic Programme or a Work Programme, or
 - If essential for carrying out an action, or
 - If provision for funding is provided for in a bilateral agreement between Community and that country

Eligible Applicants

- Research organizations, Universities
- High-tech Small and Medium Sized Enterprises (SMEs)
- SME Associations (specific instruments)
- Public administrations (local, regional, or national)
- Individual researchers wishing to work in another country (MSC)
- Institutions running a research facility of multi-national interest
- Civil society organizations

Actions and Rules

Research and Innovation Actions		Innovation Actions	
Funding for projects tackling clearly defined challenges, which can lead to the development of new knowledge or a new technology.		Funding focused on closer-to-the-market activities.	
Who?	Minimum 3 independent legal entities from 3 different EU MS or AC <ul style="list-style-type: none"> Additional information may be defined in the Work Programme 	Who?	Minimum 3 independent legal entities from 3 different EU MS or AC <ul style="list-style-type: none"> Additional information may be defined in the Work Programme
Funding Rate	100% funding for all activities and participants	Funding Rate	70% funding for all activities and most participants <ul style="list-style-type: none"> 100% reimbursement possible for non-profit organizations
Overhead Rate	25%	Overhead Rate	25%

Activities and Rules

Coordination and Support Actions		Marie Skłodowska-Curie Actions	
Funding covers the coordination and networking of research and innovation projects, programmes, and policies. <i>Funding for research and innovation per se is not eligible.</i>		Funding for international research fellowships in the public or private sector, research, training, staff exchanges	
Who?	Single entities or consortia of partners from different countries, industry, and academia <ul style="list-style-type: none"> Additional information may be defined in the Work Programme 	Who?	Early stage researchers or experienced researchers (of any nationality), technical staff, national/regional research mobility programmes <ul style="list-style-type: none"> Additional information may be defined in the Work Programme
Funding Rate	100% funding for all activities and participants	Funding Rate	100% funding for all activities and most participants
Overhead Rate	25%	Overhead Rate	25%

International Cooperation in H2020

- International cooperation is crucial to address many Horizon 2020 objectives
- General principle of openness
- In line with the Union's strategy for international cooperation in research and innovation, **H2020 is open to the participation of researchers from across the world**
- **Targeted international cooperation** activities are included in the **societal challenges** and other relevant parts of H2020
- The **European Research Council** and the **Marie Skłodowska Curie Actions** are also open for applicants from outside Europe



Photo by Pete Lewis / Department for International Development

CAAST-Net PLUS

Let's get to know you!

Please shortly introduce yourself and your main research interests



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CAAST-Net Plus

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