Horizon 2020 -
EU Framework Programme for Research and Innovation -
An overview (02/2017)

Basic data
- Duration: 2014-2020,
- Budget: 70.2 bn. Euro

Horizon 2020 is the biggest EU Research and Innovation programme ever with over €70 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market:

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<th>II) Industrial Leadership</th>
<th>III) Societal challenges</th>
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<td>European Research Council (ERC)</td>
<td>Leadership in enabling &amp; industrial technologies (LEIT): • Information &amp; Communication Technologies • Nanotechnologies • Advanced Materials • Biotechnology • Advanced Manufacturing &amp; Processing • Space</td>
<td>1. Health, Demographic Change &amp; Wellbeing</td>
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<td>6. Inclusive, Innovative &amp; Reflective Societies</td>
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<td>7. Secure Societies</td>
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IV) Spreading Excellence & Widening Participation
V) Science with & for Society
VI) Joint Research Centre (JRC, non-nuclear)

I) Excellent Science (budget 22.7 bn. €):
- European Research Council (budget: 11.93 bn. €): The ERC grants support for proposals that cross disciplinary boundaries, pioneering ideas that address new and emerging fields and applications that introduce unconventional, innovative approaches. Four programs of the 7th Framework Programme are adopted: a) Starting Independent Researcher Grant; b) Consolidator Grant; c) Advanced Investigator Grant; d) Proof of Concept.
- Future and Emerging Technologies FET; (budget: 2.46 bn. €): FET open funds projects on new ideas for radically new future technologies, at an early stage. FET Proactive nurtures emerging themes, seeking to establish a critical mass of European researchers in a number of promising exploratory research topics. FET flagship is an initiative where hundreds of excellent European researchers forces to focus on solving a scientific and technological challenge.
Dezernat Forschung und EU-Hochschulbüro, Technologietransfer

- **Marie-Skłodowska-Curie-Actions** (MSCA; budget: 5,62 bn. €)
  The Marie Skłodowska-Curie Actions provide grants for all stages of researchers' careers - be they doctoral candidates or highly experienced researchers - and encourage transnational, intersectoral and interdisciplinary mobility. Following Research and Innovation field can be chosen freely:
  - Research networks: Innovative Training Networks (ITN) incl. European Industrial Doctorates (EID) and European Joint Doctorates (EJD)
  - Individual Fellowships (IF): European Fellowships und Global Fellowships
  - Research and Innovation Staff Exchange (RISE)
  - Cofund: An offer for additional funding to regional, national and international programs for research training and career development, to encourage the movement of researchers across borders and provide good working conditions.

- **European Research Infrastructures** (budget: 2,27 bn. €):
  promoting world-class research infrastructures, in a fair, transparent and open way and facilitating researcher's access to the infrastructures they need.

II) **Industrial Leadership** (budget: 15,2 bn. €):
  *Leadership in Enabling and Industrial Technologies* (LEIT): The emphasis for Leadership in Enabling and Industrial Technologies actions will be research and innovation to strengthen Europe's industrial capacities and business perspectives, including SMEs Public-private partnerships (PPPs) Cross-cutting KETs Seizing the ICT opportunities, contributions to solving Societal Challenges and to focus Areas-Cross-cutting aspects, like international cooperation and responsible research and innovation.

III) **Societal Challenges** SC (budget: 27,1 bn. €):
  SC1) Health, demographic change and wellbeing
  SC2) Food security, sustainable agriculture and forestry, marine and maritime
  and inland water research, and the Bio economy;
  SC3) Secure, clean and efficient energy;
  SC4) Smart, green and integrated transport;
  SC5) Climate action, environment, resource efficiency and raw materials;
  SC6) Europe in a changing world - inclusive, innovative and reflective societies;
  SC7) Secure societies - protecting freedom and security of Europe and its citizens

  **Horizontal**

IV) **Widening Participation**: Maximizing investment in research and innovation will enable the European Research Area to function in a more streamlined and homogeneous way (ERA-Chairs, Teaming, Twinning)

V) **Science with and for society**: building capacities and developing innovative ways of connecting science to society.

VI) The direct activities **Joint Research Center (JRC non-nuclear)** and the **European Institute for Innovation and Technology (EIT)** form an own block.

**Types of Action:**
The Societal Challenges (SC) such as LEIT will be promoted like the FRP. As a cover for activities from research to market with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, and support for public procurement and market uptake.
Wir beraten die Hochschulen der Region Hannover/Hildesheim zu allen EU-Förderprogrammen.

(Research Actions, Innovation Actions, Coordination/Support Actions etc.). New forms of support, beneath Public Procurement and Prizes are e.g.:
- **SME-Instrument**: SME supports close-to-market activities: Feasibility Assessment (phase 1), Innovation project (phase 2) and Commercialization (phase 3).

**Participation rules:**
- Calls: To submit your project proposal, you need to go to the section Electronic Proposal Submission on a specific Topic page that belongs to a call. You need to be logged in with your Participant Portal account to start filling in standard forms and submit your proposal to the Commission. Please consider that only ERC, MSCA and FET-Open do not have any restriction and are open for all research areas.
- Minimum conditions: At least 3 legal entities, each established in different MS/AC, Exception: For SME Instrument, Coordination and support action, European Research Council grants one legal entity sufficient.
- Reimbursement rate: Up to 100% for Research and Innovation actions. Up to 70% for innovation (non-profit entities up to 100%). Up to 70% for PCP co-fund, 33% for ERANET co-fund, 20% for PPI co-fund. Flat-rate of 25% of total direct costs, excluding subcontracting, costs of third parties and financial support to third parties.

- Call and all necessary documentation are published on the Participant Portal: http://ec.europa.eu/research/participants/portal/page/home

**Further information:**
- The German internet presence: http://www.horizont2020.de/

**Peer-Review:**
If you are interested in becoming an expert, please contact the EU-Hochschulbüro Hannover / Hildesheim.

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