Horizon 2020 (& FP7) Funding Opportunities in EU Resarch and Innovation

EU-US eHealth Marketplace
State House , Boston, Massachusetts
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HORIZON 2020

What is Horizon 2020?

- 80 billion euro (~$100B) R&I funding programme (2014-20)

- Part of proposals for next EU budget

- A core part of EU policies:
  - **Responding to the economic crisis**
  - **Addressing peoples' concerns**
  - **Strengthening the EU's global position**

What's new?

- **A single programme**

- **More innovation**

- **Focus on societal challenges**

- **Simplified access**

A stronger, clearer focus

Excellent Science

Industrial leadership

Societal challenges

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INNOVATION UNION

Priority 1 Excellent science

Why:

- World class science is the foundation of tomorrow's technologies, jobs and wellbeing

- Europe needs to develop, attract and retain research talent

- Researchers need access to the best infrastructures

Proposed funding (million euro, 2014-20)

European Research Council *Frontier research by the best individual teams*	13 268
Future and Emerging Technologies *Collaborative research to open new fields of innovation*	3 100
Marie Curie actions* *Opportunities for training and career development*	5 752
Research infrastructures (including e-infrastructure) *Ensuring access to world-class facilities*	2 478

Priority 2 Industrial leadership

Why:

- Europe needs more innovative SMEs to create growth and jobs

- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors

- Europe needs to attract more private investment in research and innovation

Proposed funding (million euro, 2014-20)

Leadership in enabling and industrial technologies (*ICT, nanotechnologies, materials, biotechnology, manufacturing, space*)	13 781
Access to risk finance *Leveraging private finance and venture capital for research and innovation*	3 538
Innovation in SMEs *Fostering all forms of innovation in all types of SMEs*	619

ICT in Industrial Leadership

ICT 8 b€

1. Components and systems

2. Next generation computing

3. Future Internet

4. Content technologies and information management

5. Advanced interfaces and robots

6. Key Enabling Technologies: Micro- nano-electronics and photonics

Priority 3 Societal challenges

Why:

- EU policy objectives (climate, environment, energy, transport etc) cannot be achieved without innovation

- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities

- Promising solutions need to be tested, demonstrated and scaled up

Proposed funding (million euro, 2014-20)

Health, demographic change and wellbeing	**8 028**
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	4 152
Secure, clean and efficient energy*	5 782
Smart, green and integrated transport	6 802
Climate action, resource efficiency and raw materials	3 160
Inclusive, innovative and secure societies	3 819

ICT 4 B€?

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ICT in Societal Challenges – Challenge 1

- **Health, demographic change & wellbeing**

- Strongly ICT related is:

  e-health, self management of health, improved diagnostics, improved surveillance, health data collection, active ageing, assisted living

Next steps

Ongoing: Parliament and Council negotiations on the basis of the Commission proposals

Ongoing: Parliament and Council negotiations on EU budget 2014-2020 (including overall budget for Horizon 2020)

July 2012: Final calls under 7th Framework Programme for research to bridge gap towards Horizon 2020

Mid 2013: Adoption of legislative acts by Parliament and Council on Horizon 2020

6-8/11 2013: ICT in H2020 Launch Conference, Vilnius, Lithuania Launch of first calls

1/1/2014: **Horizon 2020 starts**

Horizon 2020
International Cooperation

Aims at:

- Strengthening the Union's excellence and attractiveness in research and innovation

- Strengthening its economic and industrial competitiveness

- Tackling global societal challenges

H2020 open to 3rd countries (including the USA)

- Good capacity in science, technology and innovation

- Close economic and geographic links

- Good track record of participation

Co-ordination and Support Actions (CSAs) in FP7 ICT Call 10 Deadline of 15 January 2013

IT skills for healthcare workforce: (€200K)

Renewed educational material and programmes in the EU and USA, for IT skills of healthcare workers

Interoperability of patient summary between EU and US: **(€200K)**

Compare specifications of patient summaries for cross-Atlantic interoperability of electronic health records

Interoperability: (400K€)

New ideas for international standardisation in eHealth; roadmap to implement.