



HORIZON 2020

The European Union's Framework Programme for Research and Innovation

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HORIZON 2020



Presentation Outline


- ❑ **Horizon 2020: Main EU-level R&I Programme**
 - ❑ Largest ever: EUR 80 bn (2014-2020)
- ❑ **Integral part of overall EU Innovation policy**
 - ❑ Europe 2020, Innovation Union
- ❑ **Key Features**
 - ❑ 7 year perspective, budget
 - ❑ Single programme from basic research to market
 - ❑ Challenge oriented
 - ❑ Highly internationalised
- ❑ **Partnering with Member States, Industry, Society**
- ❑ **"Science 2.0"**
- ❑ **Some conclusions**

The European Union

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

 Member states of the European Union
Candidate and potential candidate countries

*Free movement of people, goods, services and capital

Research and Innovation

HORIZON 2020: Key part of EU's Multiannual Financial Framework (2014-2020)

1. Smart & inclusive growth (€451 billion)



2. Sustainable growth, natural resources (€373 billion)

3. Security and citizenship (€16 billion)

4. Global Europe (€58 billion)

5. Administration (€61.6 billion)



Research and Innovation

Active involvement of stakeholders

- **EU Presidencies: Sweden** (societal challenges-based approach), **Spain** (integration of research and innovation), **Hungary** (FP7 interim evaluation), **Poland** (widening participation), **European Council conclusions** from 4.2.2011 (Common Framework to bring together all EU research and innovation funding)
- **European Parliament** reports: Merkies (Innovation Union), Audy (FP7 evaluation), Matias (Horizon 2020) and Carvalho (simplification)
- Overwhelming response to **the public consultation** on Horizon 2020 (more than 2000 contributions)
- **Survey on administrative costs for participants in FP7**
- **25 workshops on the content** of Horizon 2020

WHAT IS HORIZON 2020?

- A €80 billion research and innovation funding program (2014 -2020)
- A response to economic crisis by investing in future jobs and growth
- It addresses people's concerns about their livelihoods, safety and environment



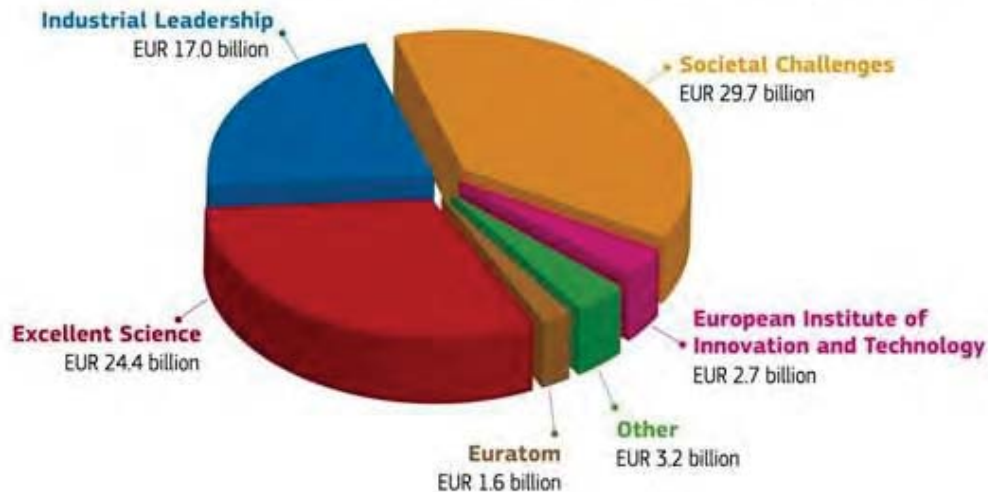
Horizon 2020

A single programme

- **Coupling research with innovation:** 'from lab to market'
- **Focusing on societal challenges:** health, clean energy, transport, etc
- **Simplified access:** for all companies, universities, institutes in all EU countries and beyond
- **Open to the world:**
 - **11 Associated countries**
 - **Open to participation from the whole world**



HORIZON 2020 BUDGET (EUR 78.6 billion, current prices)



Public-Private & Public-Public Partnerships

€22 billion Innovation Investment Package

Joint Technology Initiatives (under Article 187)

- Innovative Medicines Initiative 2
- Clean Sky (Aeronautics) 2
- Fuel Cell and Hydrogen 2
- Bio-based Industries
- Electronic components and systems
- European Airtraffic management System

Joint programmes with Member States (under Article 185)

- European and Developing Countries Clinical Trials Partnership (EDCTP) 2
- European Metrology Research Programme 2
- Eurostars (for SMEs) 2
- Active and Assisted Living 2