

What is Horizon 2020?

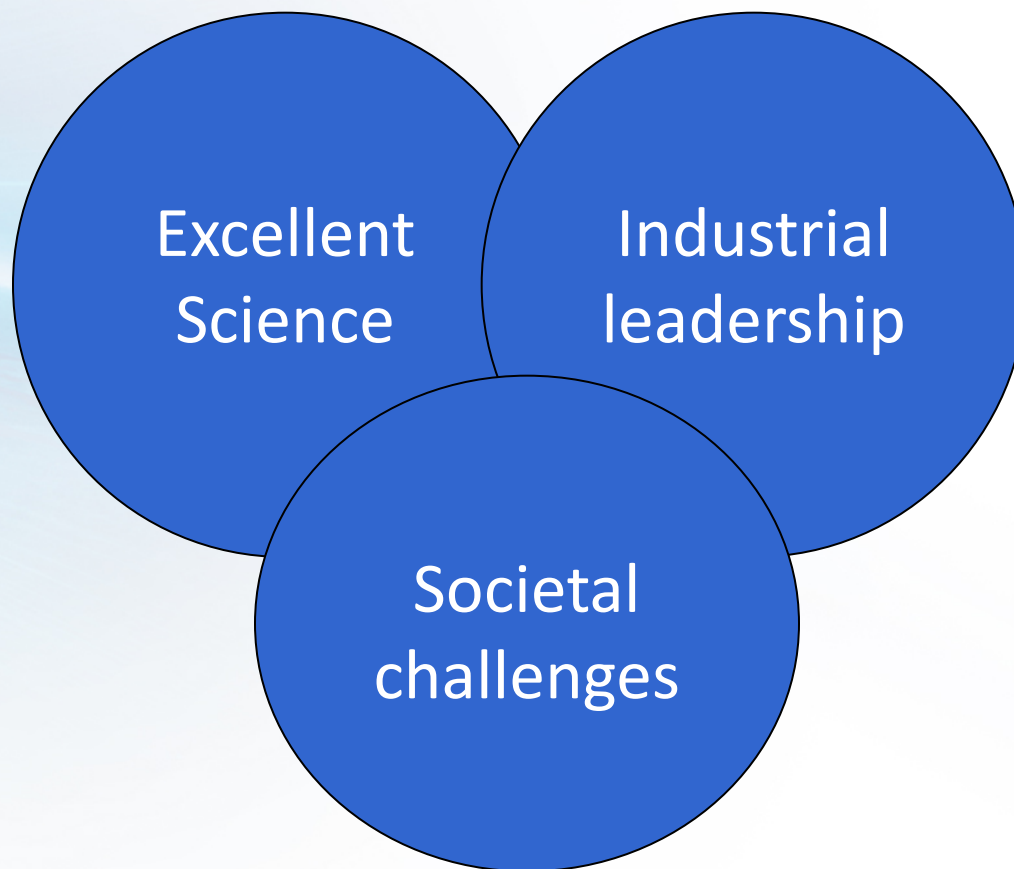
- Commission proposal for an 80 billion euro R&I funding programme (2014-20)
- A core part of Europe 2020, Innovation Union & European Research Area:
 - **Responding to the economic crisis** to invest in future jobs and growth
 - **Addressing peoples' concerns** about their livelihoods, safety and environment
 - **Strengthening the EU's global position** in research, innovation and technology

What's new?

- **A single programme** *bringing together three separate programmes/initiatives**
- **More innovation**, *from research to retail, all forms of innovation*
- **Focus on societal challenges** *facing EU society, e.g. health, clean energy and transport*
- **Simplified access**, *for all companies, universities, institutes in all EU countries and beyond.*

**The 7th research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)*

A stronger, clearer focus



ICT in Industrial Leadership (I)

ICT 9 b€

1. Components and systems

Smart embedded components and **systems**, micro-nano-bio systems, organic electronics, large area integration, technologies for IoT, smart integrated systems, systems of systems and complex system engineering

2. Next generation computing

Processor and system architecture, interconnect and data localization technologies, cloud computing, parallel computing and simulation **software**

3. Future Internet

Networks, software and services, cyber security, privacy and trust, wireless communication and all optical networks, immersive interactive multimedia and connected enterprise

ICT in Industrial Leadership (II)

ICT 9 b€

4. Content technologies and information management
Technologies for language, learning, interaction, digital preservation, content access and **analytics**; advanced data mining, machine learning, statistical analysis and visual computing
5. Advanced interfaces and robots
Service **robotics**, cognitive systems, advanced interfaces, smart spaces and sentient machines
6. Key Enabling Technologies: Micro- nano-electronics and photonics
Design, advanced processes, pilot lines for fabrication, production technologies and demonstration actions to validate technology developments and innovative business models

ICT in Societal Challenges (I)

ICT 4.5 b€?

- Health, demographic change & wellbeing;
e-health, self management of health, improved diagnostics, improved surveillance, health data collection, active ageing, assisted living;
- Secure, clean and efficient energy;
Smart cities; Energy efficient buildings; smart electricity grids; smart metering;
- Smart, green and integrated transport;
Smart transport equipment, infrastructures and services; innovative transport management systems; safety aspects

ICT in Societal Challenges (II)

ICT 4.5 b€?

- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Climate action, resource efficiency and raw materials
ICT for increased resource efficiency; earth observation and monitoring
- Inclusive, innovative and reflective societies
Digital inclusion; social innovation platforms; e-government services; e-skills and e-learning; e-culture
- Secure societies
Cyber security; ensuring privacy and protection of human rights on-line

