

WHAT IS HORIZON 2020?

- ➤ The European Union programme for research and innovation for 2014 2020
- ➤ A budget of just over €70 bilion
- >A Europe 2020 flagship initiative aimed at:
 - Securing Europe's global competitiveness
 - Responding to the economic crisis to invest in jobs and work
 - Addressing people's concern about their livelihoods, safety and environment
 - Strengthening the EU's global position in research, innovation and technology

Who can participate?

Almost any legal entieties such as:

- Universities (public and private)
- Research Centres (public and private)
- Companies (SMEs, big companies)
- > Local authorities
- >Associations, International organization

Come from:

EU states

associates countries

third countries.

The Structure:

Focus on *three main pillars*:

Excellent science: Raising the level of excellence in Europe's science base by:

- supporting the best ideas
- developing European talent
- providing researchers with access to a research infrastructure

Industrial leadership: Stimulating the growth potential of European companies by:

- offering access to risk finance
- encouraging private investment in R&D
- engaging smaller companies by offering support for innovative SMEs

Societal challenges: Reflecting the policy priorities of the European Commission. This covers all stages of research and innovation - from concept to market.

Excelente science

European Research
Council (ERC)

Future and Emerging Technologies (FET)

Marie-Sklodowska-Curie
Actions (MSCA)

Research Infrastructures

Industrial leadership

Leadership in enabling and industrial technologies (LEIT)

Access to risk finance

Innovation in SMEs

Societal Challenges

Healt and wellbeing

Food security

Transport

Energy

Climate action

Societes

Security

Spreading excellence and widening participation

Science with and for society

EIT

JRC

EURATOM

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

ERC

Was created to boost scientific excellence of individual researchers.

It specifically encourages researchers to develop high risk ground-breaking projects:

Researchers can apply for:

- ERC Starting Grant = aims to support researchers with 2 to 7 years of experience after their PhD
- ERC Consolidator Grant = is designed to researchers with 8 to 12 years of scientific experience after their PhD
- **ERC Advanced Grant** = is open to excellent established researchers who are leaders in their field of research
- ERC Proof of Concept Grant = is open for ERC grantees only

Help to create in Europe a fertile ground for responsible and dynamic multi-disciplinary collaborations on future and emerging technologies and for kick-starting new European research and innovation ecosystems around them.

Lines of activity to achieve the objective:

FET Open: supports the early-stages of the science and technology research and innovation around new ideas towards radically new future technologies

FET Proactive: addresses promising directions for research on future technologies

FET Flagships: Flagships are visionary, science-driven, large-scale research initiatives addressing grand Scientific and

Technological (S&T) challenges.

MSCA

focus on training and career development of researchers

Industrial leadership

Why?

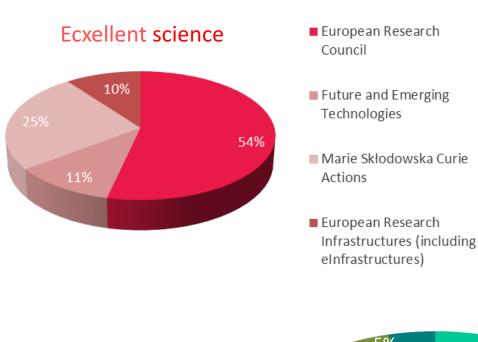
- •Europe needs more innovative SMEs to create growth and jobs
- •Strategic investment in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors
- •Europe needs to attract more private investment in research and innovation

Societal Challenges

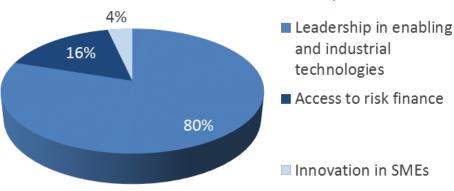
Why?

- •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

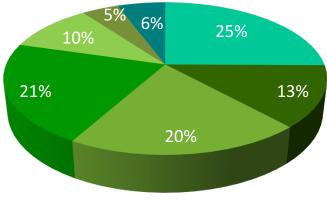
The activity's budget











- Health, demographic change and wellbeing
- Food security, sustainable agriculture and forestry, marine and 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
- inclusive, innovative and reflective Societies

	Compromise % 27.06.13	Million € (27.06.13)
I. Excellent Science, of which:	31,73%	21.609
1. ERC	17,00%	11.577
2. FET	3,50%	2.384
3. MS Curie Actions	8,00%	5.448
4. Research Infrastructures	3,23%	2.200
II. Industrial Leadership, of which:	22,09%	15.044
Leadership in Enabling and Industrial Technologies	17,60%	11.986
Access to Risk Finance	3,69%	2.513
Innovation in SME's	0,80%	544,81
II.I Societal Challenges, of which:	38,53%	26.240
Health, demographic change and well being	9,70%	6.606
Food security, sustainable agriculture, marine and maritime research & the bio economy	5,00%	3.405
Secure, clean and efficient energy	7,70%	5.244
Smart, green and integrated transport	8,23%	5.605
Climate action, resource efficiency and raw materials	4,00%	2.724
Europe in a changing world – Inclusive, innovative and reflective society	1,70%	1.158
Secure societies — Protecting freedom and security of Europe and its citizens	2,20%	1.498
Spreading Excellence and Widening Participation	1,06%	722
Science with and for society	0,60%	409
European Institute of Innovation and Technology - EIT	3,52%	2.397
JRC Non-nuclear	2,47%	1.682
EURATOM	2,.,,,	2.098
Total	100,00%	70.200

Main types of Action

1. Research and innovation actions (RIA)

- What? Funding available for collaborative research projects tackling clearly defined challenges which can lead to the development of new knowledge or new technology.
- Who? Consortia of partners from different countries, industry and academia.

2. Innovation action (IA)

- What? Funding available for closer-to-the-market activities including prototyping, testing, demonstrating, piloting, scaling-up etc. for new or improved products, processes or services.
- Who? Consortia of partners from different countries, industry and academia.

3. Coordination and support actions (CSA)

- What? Funding available for actions consisting primarily of accompanying measures, such as the coordination and networking of research and innovation projects, programmes and policies (e.g. training, dissemination, exploitation, standardization, policy dialogues, etc.).
- Who? Single entities or consortia of partners from different countries, industry and academia.

are one of the Key Features of Horizon 2020 and come with their own set of provisions and funding rates.

- >consist of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution.
- Funding rate: 100% of eligible costs (unless the call provides exceptionally for another rate)

innovation activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services (including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication)

Funding rate: 70% (100% for non profit organizations) of eligible costs (unless the call provides exceptionally for another rate)

CSA: Funding rate: 100% of elegible costs

