



***Horizon 2020* The New European Union Framework Programme for Research and Innovation**



HORIZON 2020

Mexico, 11th March 2014



**Building on the FP7
experience...**

FP 7 - State of Play

Key figures

5,4 b€ invested to date

1052 projects

12 332 participations

3 613 organisations

124 countries

First outcomes

(on 277 closed projects)

10 332 publications

3,2 average SJR* publication

203 patent applications

29 spin-offs created

* SCImago Journal Ranking

What is Horizon 2020?

The EU's 2014-20 programme for research & innovation

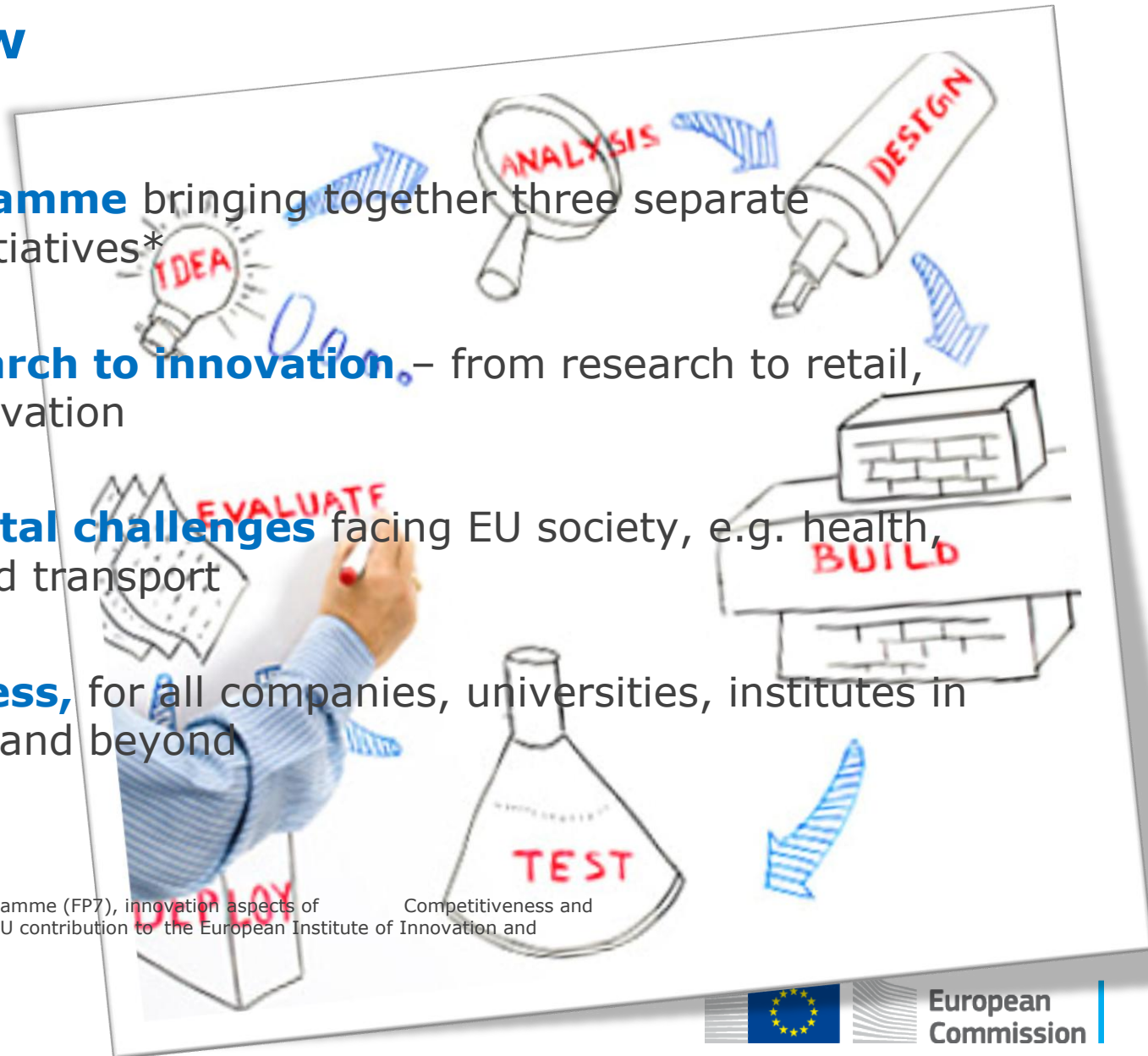
Three priorities



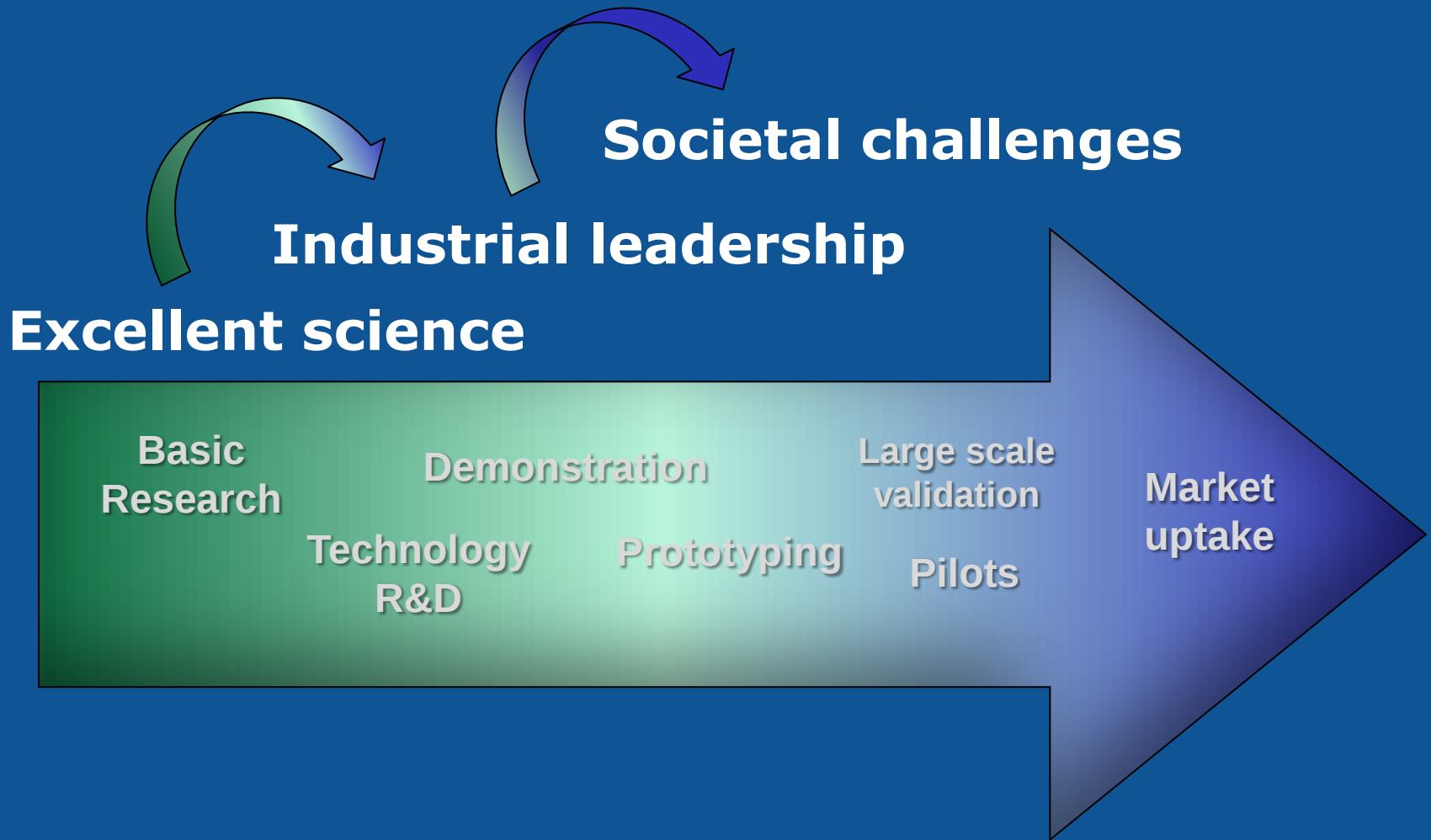
What's new

- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to 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

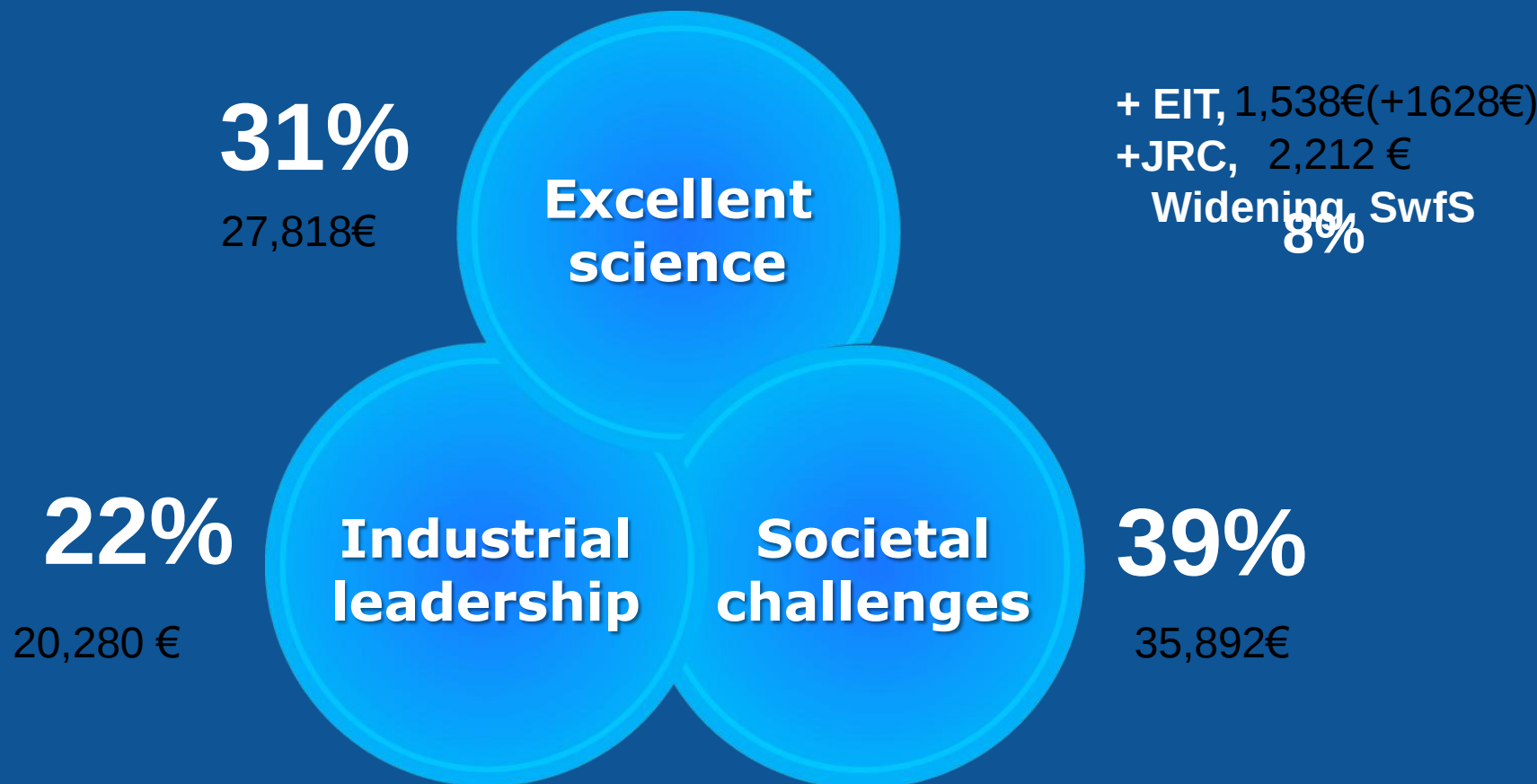
* The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)



Coverage of the full innovation chain



Three priorities



TOTAL 87 740 M€

(in current prices, based on the 80 Bn € proposal)

Three priorities

13 268
3 100
5 752
2 478

- European Research Council- Frontier Research
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- Research infrastructures

- Leadership in enabling and industrial technologies-
Nanotech, ICT, Space, Biotech
- Access to risk finance
- Innovation in SMEs

13 781
3 538
619



- 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,
- Secure societies ,Science with and for society

8 033
4 152
5 782
6 802
3 160
3 819

Societal Challenges Proposed funding 2014-2015 (€ million,)

Challenge	Total
Health, demographic change and wellbeing	1 804
Food security, sustainable agriculture, marine and maritime research & the Bioeconomy	687
Secure, clean and efficient energy	1 447
Smart, green and integrated transport*	1 542
Climate action, environment, resource efficiency and raw materials	745
Innovative, inclusive and reflective societies	310
Secure societies	393

*Green vehicles and integration electric grid and Smart cities integration of energy, transport and ICT

Horizon 2020 and partnering

Public-Private Partnerships (PPPs):

- Through *Joint Technology Initiatives* or other formal structures (§ 187.)
- Via *contractual arrangements*, which provide inputs for workprogrammes
- Only when criteria met, e.g. *clear commitments from private partners*

Public-Public Partnerships (P2Ps):

- Through “*ERA-Nets*” for topping up individual calls/ actions (replacing current ERA-Net, ERA-Net Plus, Inco-Net, Inno-net)
- Through *participation in joint programs between Member States* (§ 185.)
- Supporting agendas of Joint Programming Initiatives when in line with Horizon 2020
- Only when criteria met, e.g. financial commitments of participating countries

European Innovation Partnerships

- Not funding instruments, but for coordination with broader policies and programmes

International Cooperation

- ✓ International cooperation will be a cross-cutting priority in H2020;
- ✓ The approach will be similar to FP7 practice and will include a general opening of the programme, targeted openings, horizontal actions on international cooperation, and coordinated calls;
- ✓ Collaborative actions with specific third countries or their groups will be implemented on the basis of common interest and mutual benefit;
- ✓ Access to third country programmes will be encouraged;
- ✓ Participants from certain middle income countries (BRIC and Mexico) will no longer be eligible for automatic EC funding.

International Cooperation: a differentiated approach

➤ Industrialised countries and emerging economies

- ✓ Focus on competitiveness
- ✓ Tackle global challenges and develop enabling technologies
- ✓ Business opportunities and access to new markets

➤ Enlargement and neighbourhood countries

- ✓ Focus on alignment with the ERA
- ✓ Support to enlargement and neighbourhood policies (developing a common Knowledge and Innovation Space)

➤ Developing countries

- ✓ Support development policy by building partnerships contributing to sustainable development
- ✓ Address most relevant challenges (focus on specific economic and societal challenges, such as poverty-related diseases, energy and food security, biodiversity)

Thank you !



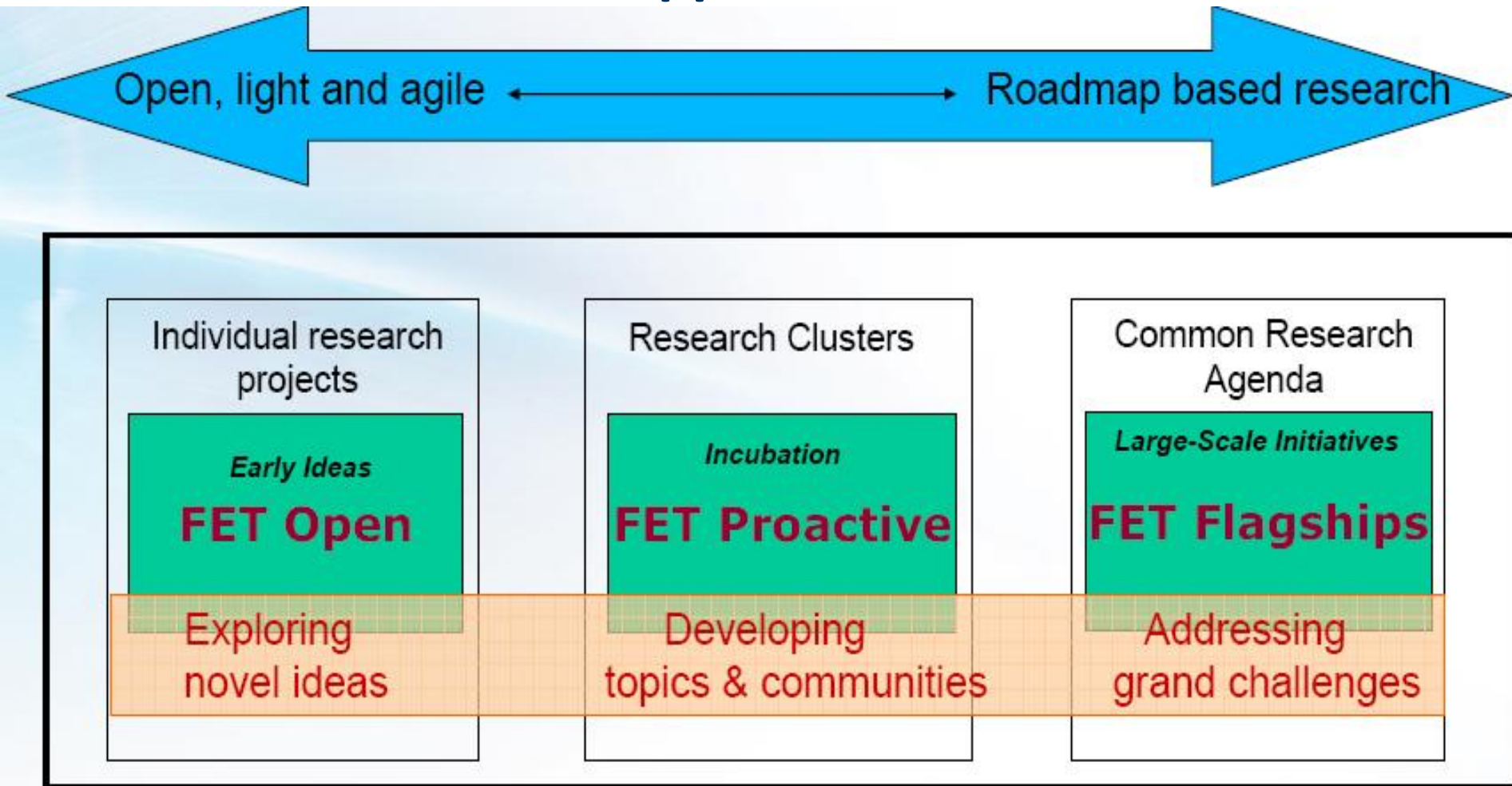


European
Commission



HORIZON 2020

FET in H2020: 3 complementary, inter-linked approaches



Role of the EIT and JRC in Horizon 2020

Three priorities to be supported by:

European Institute of Innovation and Technology (EIT) <i>Combining research, innovation & training in Knowledge and Innovation Communities</i>	1 538 + 1 628*
Joint Research Centre (JRC)** <i>Providing a robust, evidence base for EU policies</i>	2 212**

* Second tranche pro rata from LEIT and Societal challenges (subject to review)

**Additional €724 m for the JRC to be funded from the Euratom Treaty activities

COM proposal on the future of EIT (30 November 2011)

Two waves of new KICs are foreseen in 2014 and 2018.

The selection of **1st wave** (3 themes, 2014) has been based on

- maturity of the field,
- the potential societal and economic impact,
- opportunities for synergies with other initiatives.

Innovation for *Healthy living and active ageing*;
Raw materials – sustainable exploration, extraction, processing, recycling and substitution;
Food4future - sustainable supply chain from resources to consumers.

2nd wave in 2018 (3 themes envisaged):

Urban mobility

Added-value manufacturing

Smart secure societies

while taking into account new and unforeseen challenges which may arise in the future.