

Horizon 2020

**General introduction, structure, opportunities
and positioning in R&D landscape**

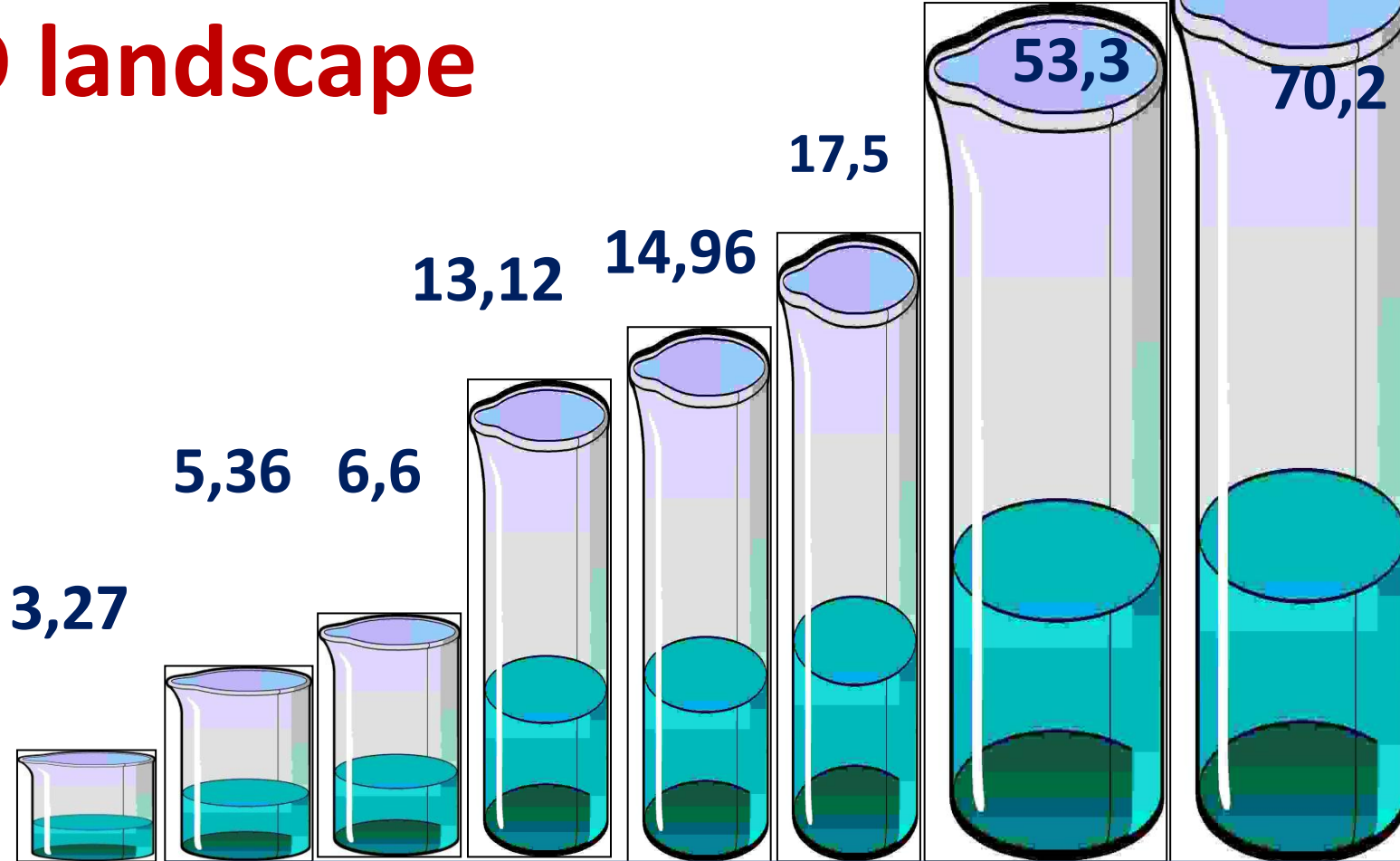
Ülle Must
ulle.must@etag.ee

INCO-NET EaP Training for NCPs

Minsk

14-15 April 2014

EU RTD landscape



EUREKA

ESF

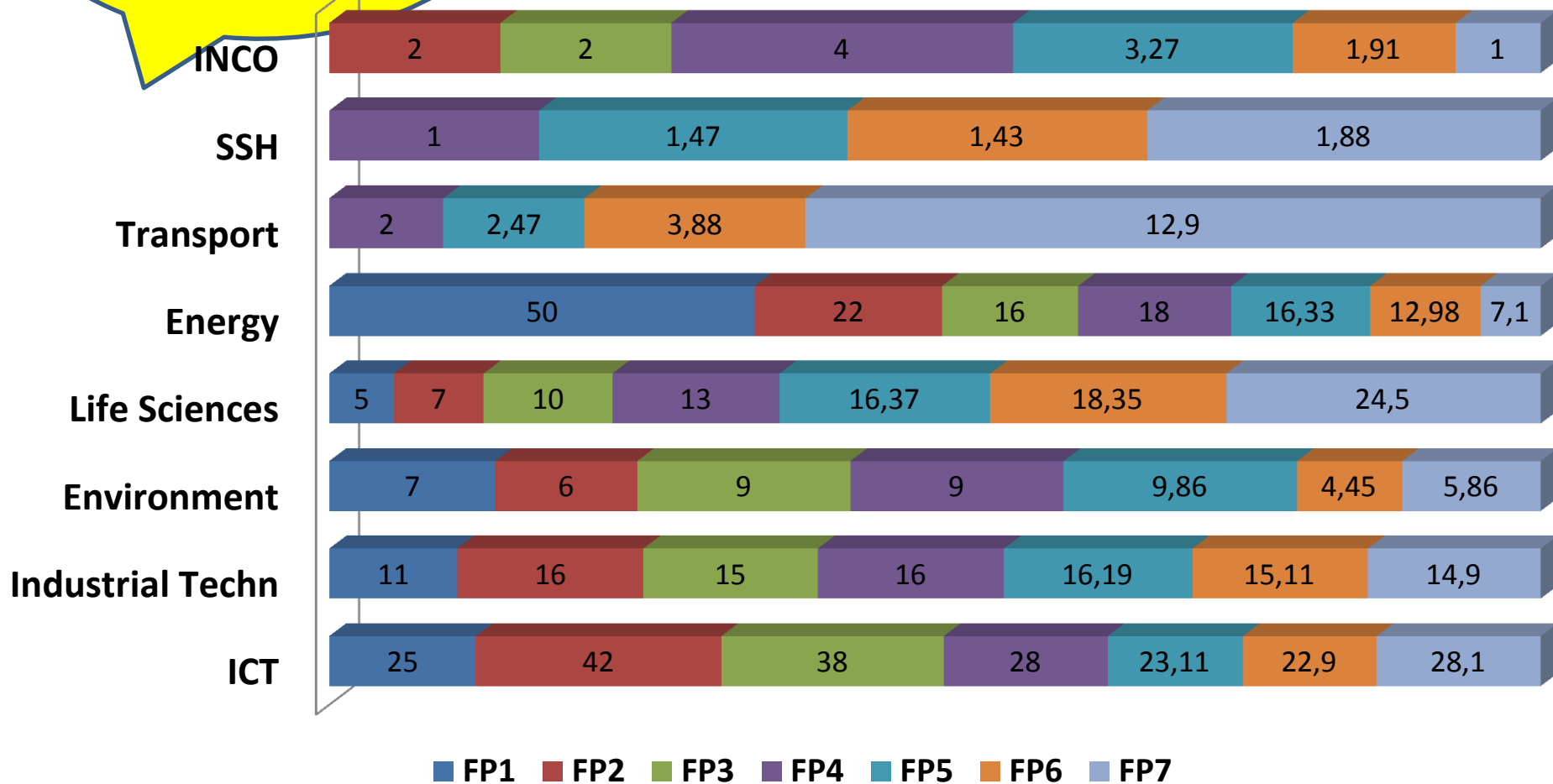
COST

1971 1974 1984 1987 1990 1994 1998 2002 2007 2014

FP1 FP2 FP3 FP4 FP5 FP6 FP7 H2020

Changing priorities

s.c. Coordination
6FP-2,1%, 7FP -5,4%,
H2020 –ca 25%



The environment for Horizon 2020

- 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.**

ERA priorities

1. More effective national research systems

- including increased competition within national borders and sustained or greater investment in research

2. Optimal transnational co-operation and competition

- defining and implementing common research agendas on grand challenges, raising quality through Europe-wide open competition, and constructing and running effectively key research infrastructures on a pan-European basis

3. An open labour market for researchers

- to ensure the removal of barriers to researcher mobility, training and attractive careers

4. Gender equality and gender mainstreaming in research

- to end the waste of talent which we cannot afford and to diversify views and approaches in research and foster excellence

5. Optimal circulation, access to and transfer of scientific knowledge including via digital ERA

- to guarantee access to and uptake of knowledge by all

The five targets for the EU in 2020

1. Employment

- 75% of the 20-64 year-olds to be employed

2. R&D

- 3% of the EU's GDP to be invested in R&D

3. Climate change and energy sustainability

- greenhouse gas emissions **20%** (or even **30%**, if the conditions are right) **lower than 1990**
- **20% of energy from renewables**
- **20% increase in energy efficiency**

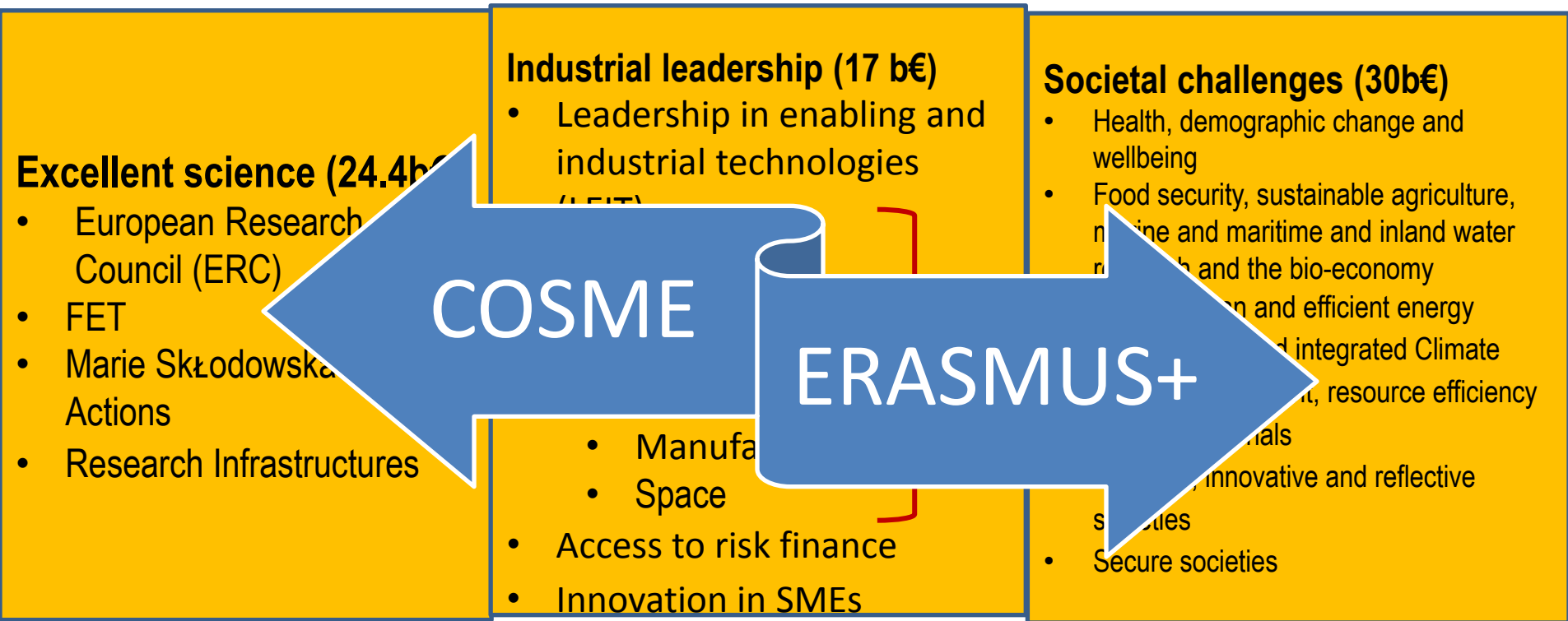
4. Education

- Reducing the rates of early school leaving below **10%**
- at least **40%** of 30-34-year-olds completing third level education

5. Fighting poverty and social exclusion

- at least **20 million fewer people in or at risk of poverty and social exclusion**

Horizon 2020 structure



Spreading excellence and widening participation. Science with and for society

European Innovation Institut
(EIT)

EURATOM

Joint Research Centre (JRC)

2-year Work Programmes 2014-2015

Focus areas through programmes:



Cultural Heritage & Global Change; Food Security, Agriculture & Climate Change, More Years - Better Lives; JPI Climate - Connecting Climate Knowledge for Europe, Water Challenges for a Changing World, Urban Europe, A Healthy Diet for a Healthy Life, Neurodegenerative Diseases, The Microbial Challenge, Healthy and Productive Seas and Oceans.

Erasmus+ Partnership Programme for the second period (EDCTP2).

- Joint Technology Initiatives (JTI)
- [ERA-NET](#)
- Article 185
- COST

Public-Private Partnerships

- Joint Technology Initiatives
- Public-private contractual partnerships

Innovative Medicines (IMI), Fuel cells and Hydrogen (FCH)
Clean Sky
Biobased industries (BBI), Electronic

Future Emerging Technologies (FET)

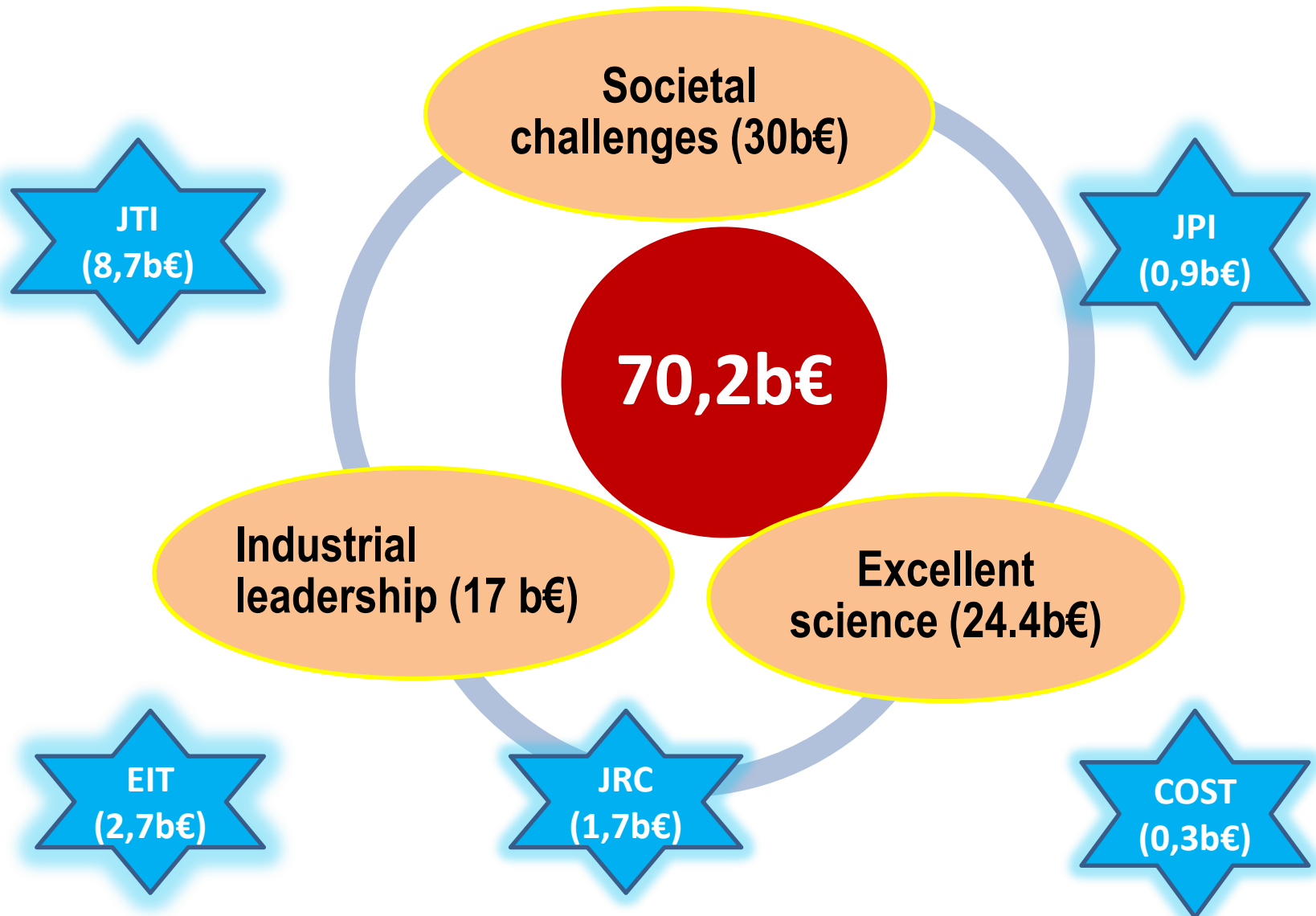
- graphene

2009: sustainable energy, climate change, ICT
2014: Healthy lifestyles and active aging, raw materials
2016: manufacturing and Food4Future
2018: Urban Transport

The factory of the future; energy-efficient buildings, energy-efficient cars, the future of the Internet, Sustainable manufacturing, robotics, photonics; high-performance computing

Industry and Technology (EIT)

Horizon 2020 budget



For further information

- **Participant Portal**

- <http://ec.europa.eu/research/participants/portal/desktop/en/home.htm>

- **Helpdesk**

- <http://ec.europa.eu/research/enquiries>

- **Expert evaluators needed!**

- <http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

- **Learn more about Horizon 2020**

- <http://ec.europa.eu/horizon2020>

- **H2020 Online Manual**

- <http://ec.europa.eu/research/participants/portal/desktop/en/funding/guide.html>

EXERCISE

MOSAIC