



Bundesministerium
für Bildung
und Forschung

Horizon 2020

**The EU's new framework programme for
research and innovation (2014-2020)**

Stefanie Schelhowe
EU-Bureau of the BMBF, PT-DLR
MPQ Garching, 26 November 2013



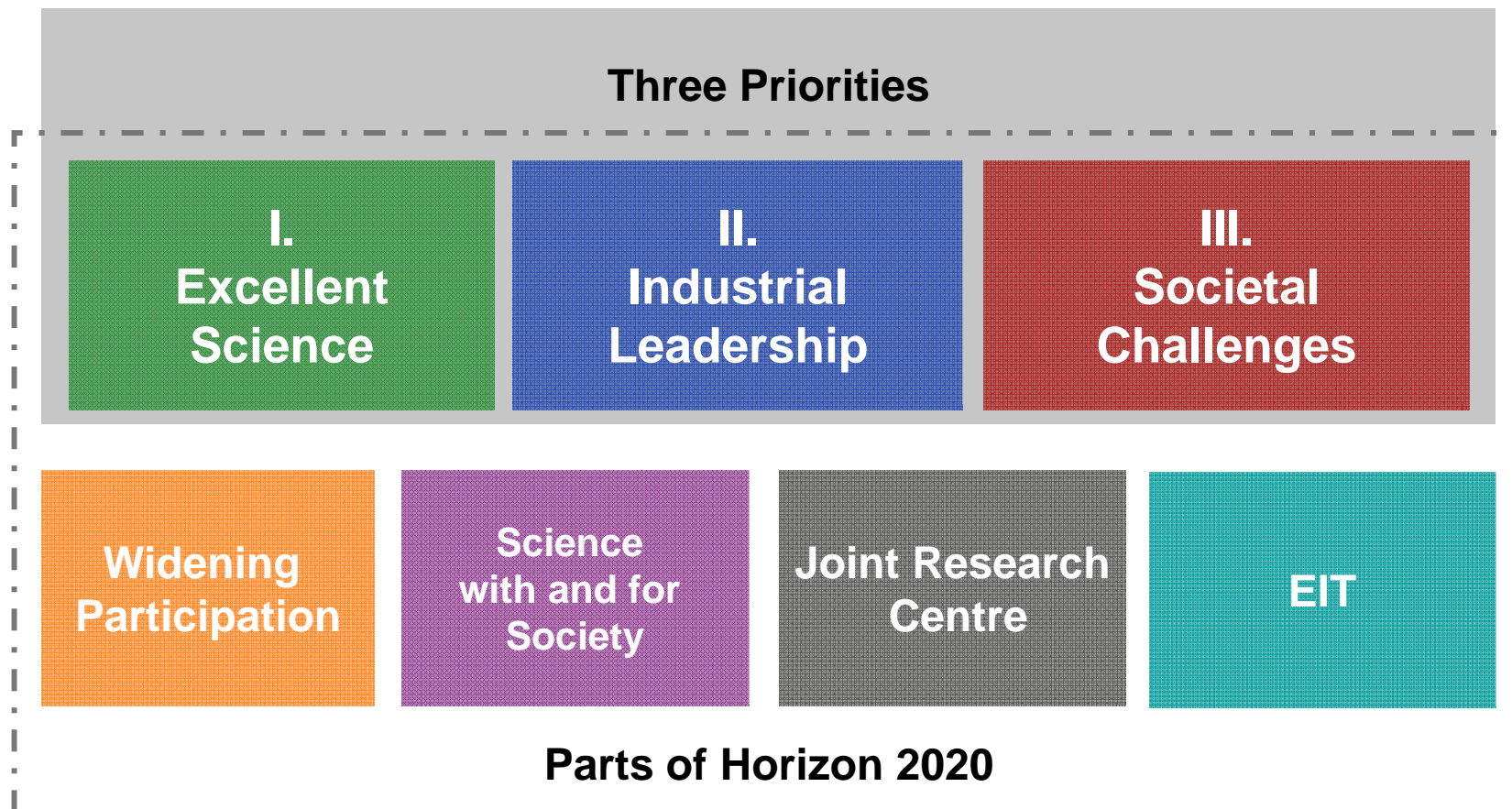
Disclaimer:

- **The adoption of the binding legislative acts by the European Parliament and the Council on Horizon 2020 is planned for the end of 2013.**
- **Until then, all information contained in this presentation is preliminary and describes the final but pre-adoption status.**
- **Please always check the latest versions of the Work Programmes & Guides for Applicants before applying.**

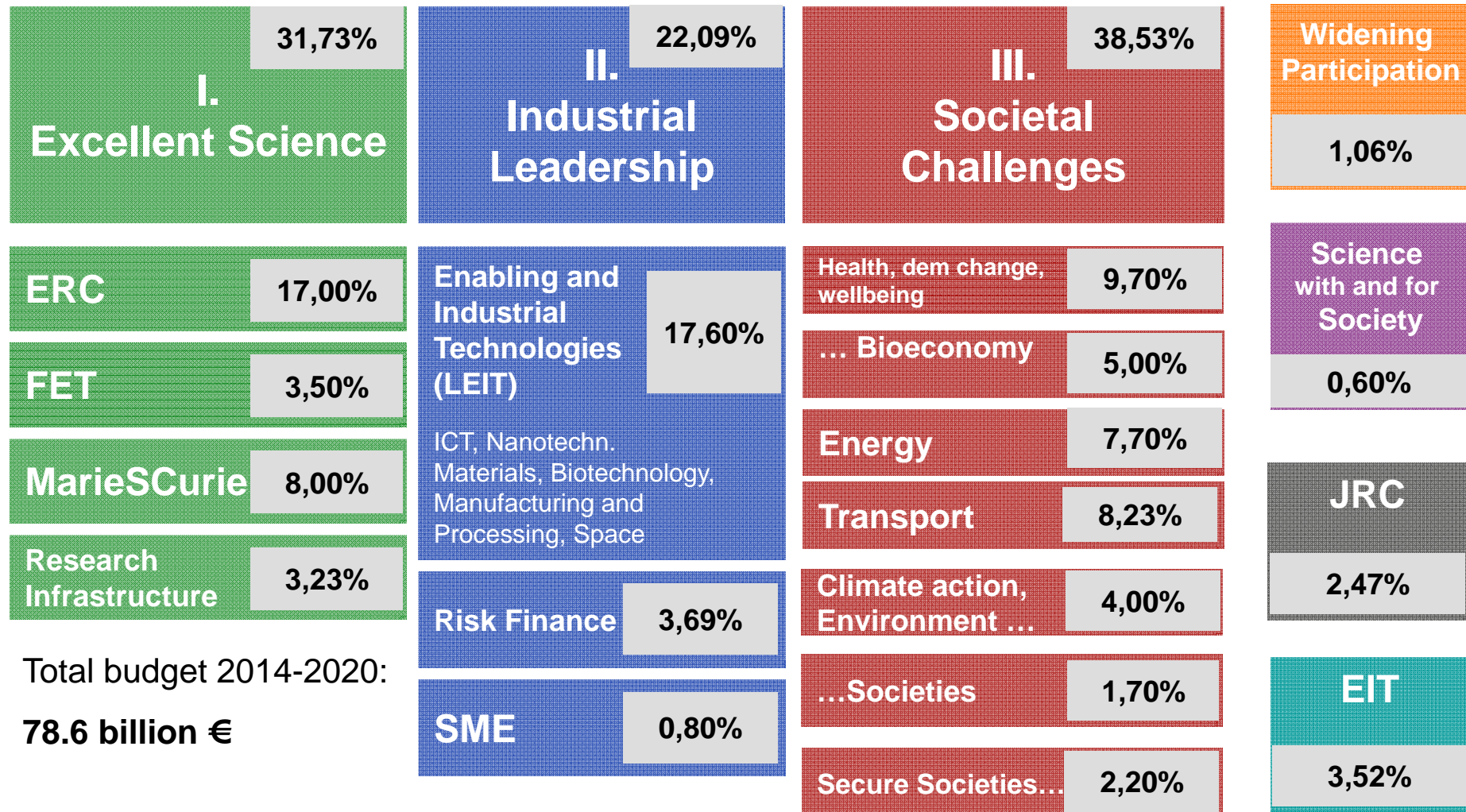
Horizon 2020 - The new Framework Programme for Research and Innovation

- **Combines the current funding programmes** for R&I:
 - 7th EU Framework Programme for Research, European Institute of Innovation and Technology (EIT), innovation parts of Competitiveness and Innovation Framework Programme (CIP)
- Stronger **focus on innovation**: closing the gap between knowledge and market, stronger participation of SMEs
- Orientation on **Societal Challenges** and on **socio-economic impact**
- **Simplification**
 - Single set of rules, simplified
 - Reduction of time-to-grant
 - Single IT Participant Portal and Front Office

Programme Structure of Horizon 2020



Horizon 2020 – Structure & Budget allocation





National Contact Points (NCPs)

- Nominated by national ministries to the European Commission
- NCPs give personalised support on the spot and in proposers' own languages on
 - application process
 - grant preparation and project management
- Organisation of workshops and information events
- In Germany located at different Project Management Agencies (Projekträger, PT) of the Federal Ministries (BMBF and BMWi), coordination: EU-Bureau of the BMBF, PT-DLR

Web: <http://www.forschungsrahmenprogramm.de/nks.htm>



Front Office – Hotline Germany

- *First Contact Point for all questions regarding EU research funding*
- *Connection to the right contact person*
- *Support in all questions during the application process and project management*

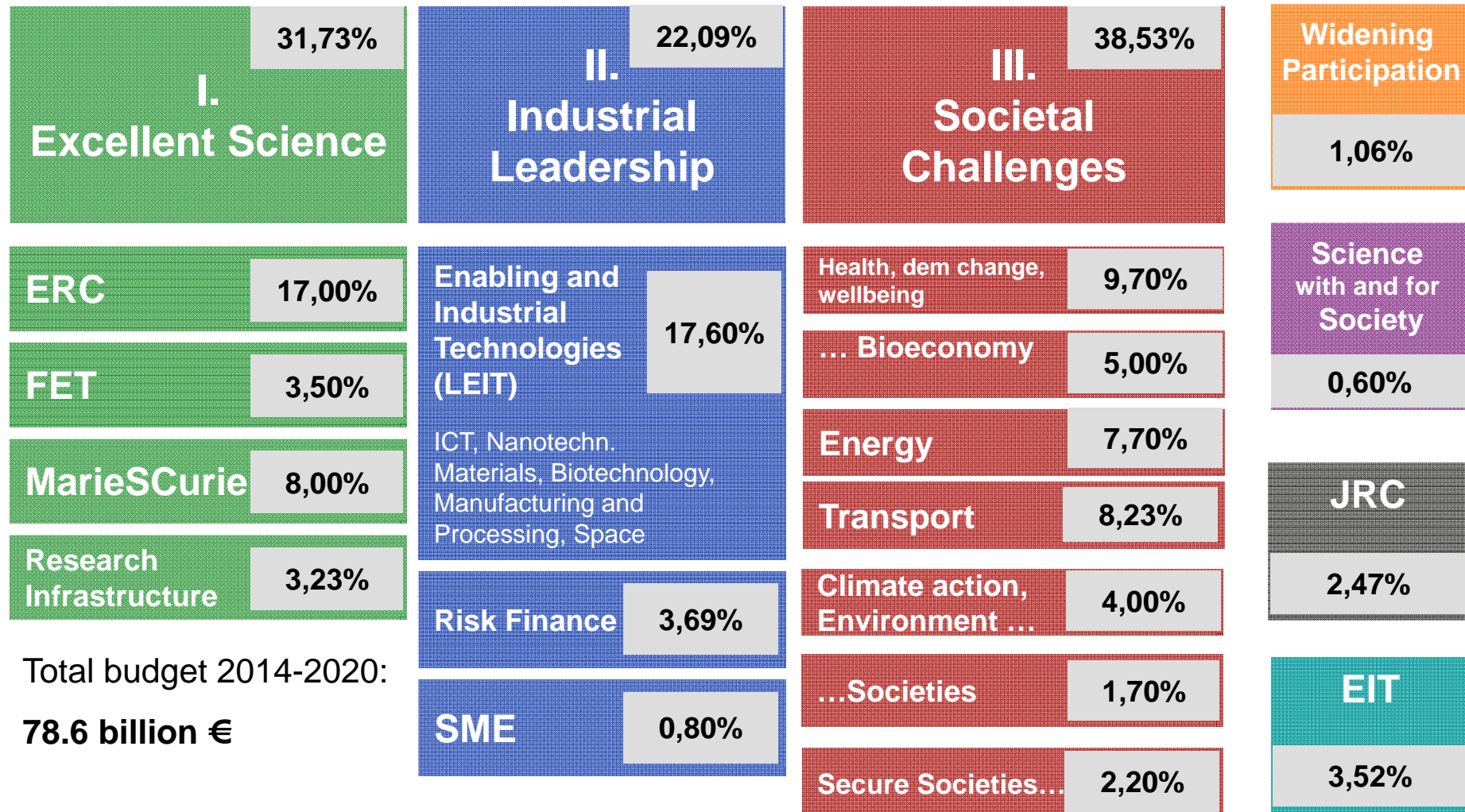
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Horizon 2020 – Structure & Budget allocation

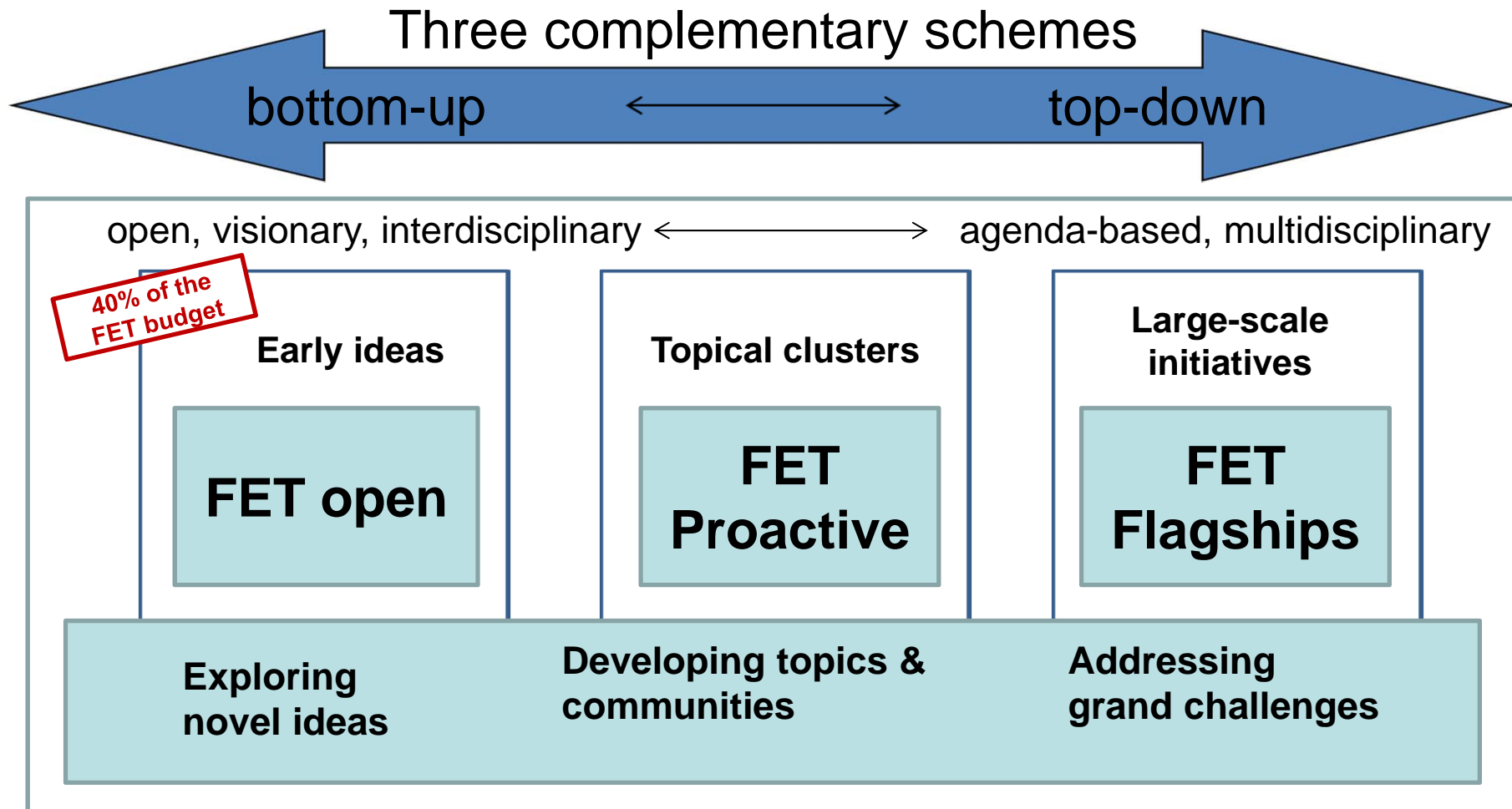


Future and Emerging Technologies (FET) – Objectives

- Foster scientific collaboration across disciplines on visionary, high-risk ideas – uncover radically new technology areas
- Science-driven and revolutionary research
- Interdisciplinary and collaborative
- Pathfinding Europe's technological future + bootstrapping new R&I eco-systems
- Complementary to activities in other parts of Horizon 2020 – exploiting synergies

Excellent Science

FET – activities



Research Infrastructures (RI)

- **EU definition of RI:** „Facilities, resources and related services used by the scientific community to conduct top-level research in their respective fields. RI can be single-sited or distributed.“
- **Examples:** synchotrons, neutron sources, telescopes, research vessels, but also data bases, archives, specialised labs,...
- Calls for existing and new RI's of European Interest
 - networking, transnational access or service activities, joint research
 - Design Studies & preparatory phase of new infrastructures





Part II – Industrial Leadership

- **Leadership in enabling and industrial technologies (LEIT):** LEIT, inclusive key enabling technologies): Research and innovation in areas of particular relevance for the competitiveness of the industry (ICT, Nanotechnology, Materials, Biotechnology, Manufacturing and Processing and Space)
- **Access to risk finance:** debt facility and equity facility in order to leverage yet further private high-risk research and innovation (R&I) investments
- **Innovation in KMU:** dedicated support for SME in three different stages covering the whole innovation cycle (feasibility part, demonstration and testing and commercialisation phase)



Societal Challenges

- 7 Societal Challenges defined by the EU's decision makers (policy-driven)
- Problem-solving oriented
- Topics defined in Work Programmes (every two years)
- Interdisciplinary research
- Big European consortia
- Highest part of H2020 budget 38,53% (ca. 26.5 billion €)

Societal Challenges

1.

Health, Demographic Change and Wellbeing

2.

Food Security, Sustainable Agriculture and Forestry, Marine and Maritime and Inland Water Research and the Bioeconomy

3.

Secure, Clean and Efficient Energy

4.

Smart, Green And Integrated Transport

5.

Climate action, Environment, Resource Efficiency and Raw Materials

6.

Europe In A Changing World –
Inclusive, Innovative And Reflective Societies

7.

Secure Societies –
Protecting Freedom And Security Of Europe And Its Citizens

Eligibility for Funding - EU 28 and Associated Countries



28 EU Member states

Associated Countries (FP7):

- Turkey
- Macedonia (FYR)
- Serbia
- Montenegro
- Bosnia & Herzegovina
- Switzerland
- Israel
- Liechtenstein
- Albania
- Republic of Moldova
- Iceland
- Norway
- Faroe Islands

International Cooperation in Horizon 2020

- General openness for the participation of partners from third countries
- Targeted international cooperation activities (defined in Work Programmes)

3 country groups → Differences regarding funding

EU enlargement countries + countries of the European Neighbourhood policy

Developing countries

Industrialised countries and emerging economies

in general eligible for funding

only funded in exceptional cases

New Funding Rates and Rules in Horizon 2020

- One funding rate per project - all parts of H2020
 - Research and Development: max. **100%** of the **actual eligible costs**
 - Close-to-market activities („innovation actions“):
 - max. 70% of the actual eligible costs
 - Exception: non-profit legal entities max. 100%
- Indirect costs: **flat rate of 25%** of the total direct eligible costs
- Non-deductable VAT become eligible costs
- Only **one certificate on the financial statement (audit certificate)** at project's end if EU-contribution reaches 325.000 € or more
- **Time-to-Grant: max. 8 months** (some exceptions, i.e. ERC)

Research and Innovation Actions

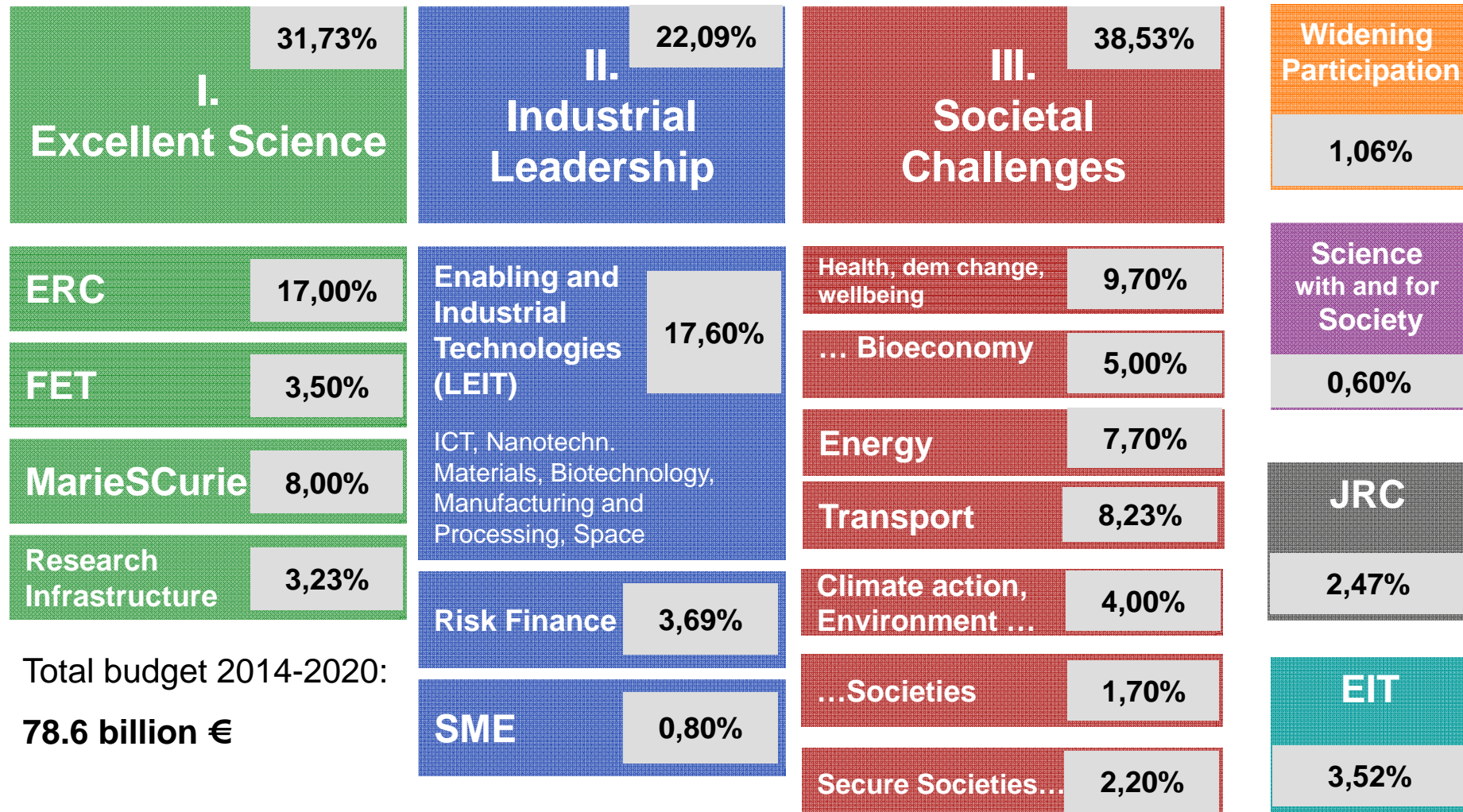
Funding
100%
+25%

| Target Group | Minimum Participation | Relevant Parts |
|---------------------|---|---------------------------|
| All research actors | 3 institutions from 3 countries (EU/AS) | LEIT, Societal Chall, FET |

Top
down

- Generating new Knowledge
- Basic and applied research, technology development and -integration,
- Feasibility Studies
- Prototypes

Horizon 2020 – Structure & Budget allocation



Spreading Excellence & Widening Participation

Objectives

- Closing the research and innovation divide between Member States and regions
- Exploitation of the R&I potential within the entire EU
- Widening participation in Horizon 2020 (compared to FP7)
- Contribution to the realisation of the European Research Area

Implementation

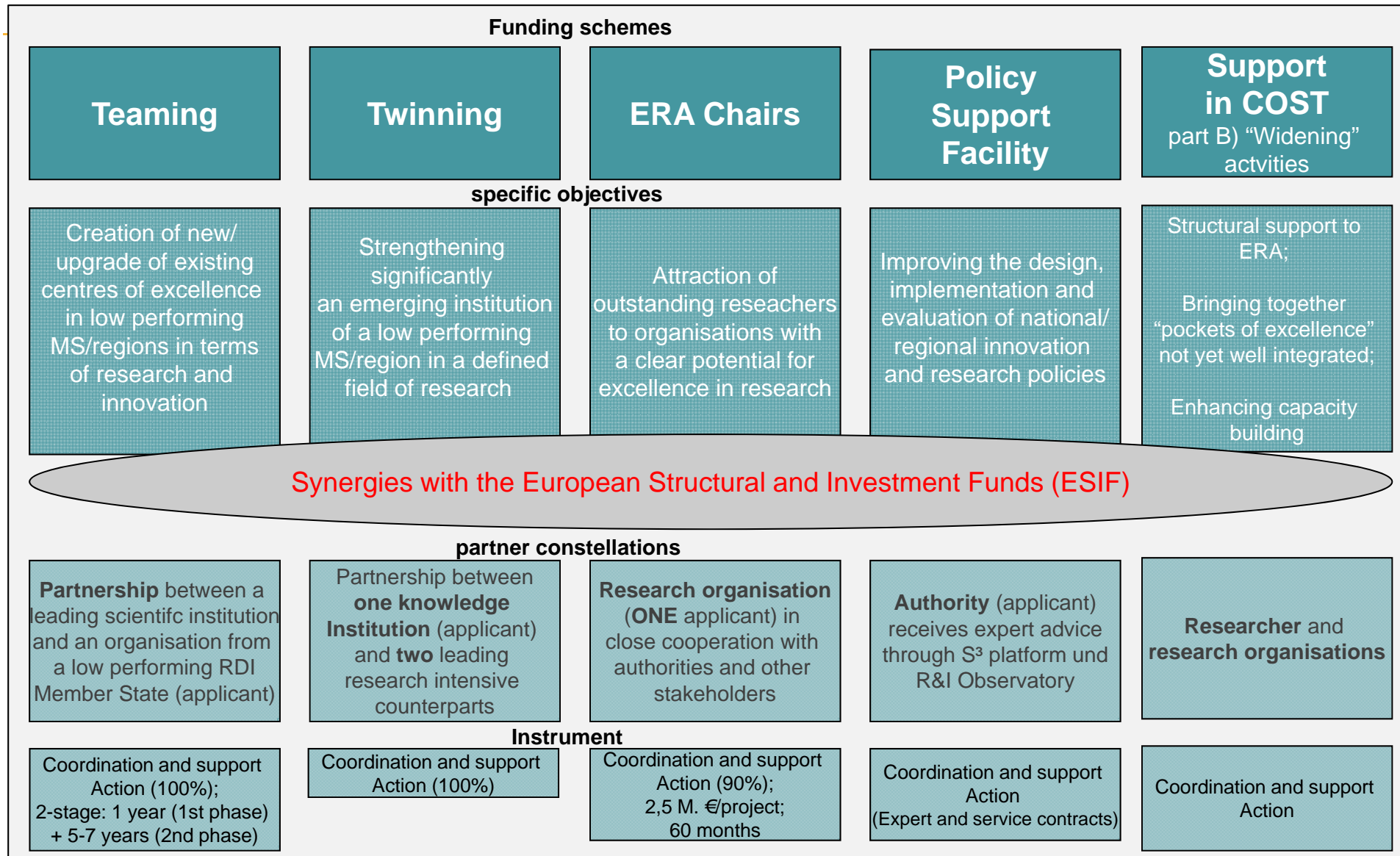
- Measures following the principle of excellence
- Main focus on low performing RDI regions
- Foster synergies with the European Structural and Investment Funds (ESIF)



Spreading excellence and widening participation - implementation



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Science with and for society

- Objectives: effective cooperation between science and society, recruit new talent for science, pair scientific excellence with social awareness and responsibility.
- Broad range of issues covered, top-down:
 - Young people and science
 - Gender equality in science
 - Societal engagement in research activities
 - Science education for a scientific literate public
 - Access and use of results of publicly funded research, Open Access
 - Responsible Research and Innovation, Ethics
 - Anticipation and Assessment of research and innovation activities
 - Science communication
- Instruments: Coordination and support actions, collaborative projects



Joint Research Centre (JRC)

- The JRC is a General directory in the European Commission (COM) and works as an in-house science service of the COM and a reference centre for science and technology
- It consists of seven research institutes in five EU member states with 2900 employees
- **Mission:** to provide EU policies with independent, evidence based scientific and technical support through the whole policy cycle (conception, development, implementation and monitoring/evaluation)
- **Opportunities to collaborate:**
 - JRC as project partner, Calls for Tender, job vacancies, work at the JRC as a Seconded National Expert, European Forum for Science and Industry,

EIT: European Institute for Innovation and Technology

- Integration of the three sides of the knowledge triangle – (higher) education, research, and innovation
- **Means:** Knowledge and Innovation Communities (KICs), i.e. cluster networks
good fit with both the themes of the German **Hightech-Strategy** and the character of the German **leading edge clusters** (cluster approach)

In planning: 5 new KICs

2014: Innovation for Healthy Living and Active Ageing; Raw Materials

2016: Food 4 the future; Added-value Manufacturing

2018: Urban Mobility

German institutions are core partners of all 3 KICs existing so far:
KIC InnoEnergy, EIT ICT Labs, Climate KIC

Horizon 2020 Calls

- First Calls for many parts of Horizon expected: 11 December 2013, first Deadlines spring 2014
- Work Programmes (2 years)
 - Calls with research topics
 - Budget distribution
 - Form of projects (instrument)
- Most drafts of Work Programmes 2014-2015 already available:
http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-documents



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