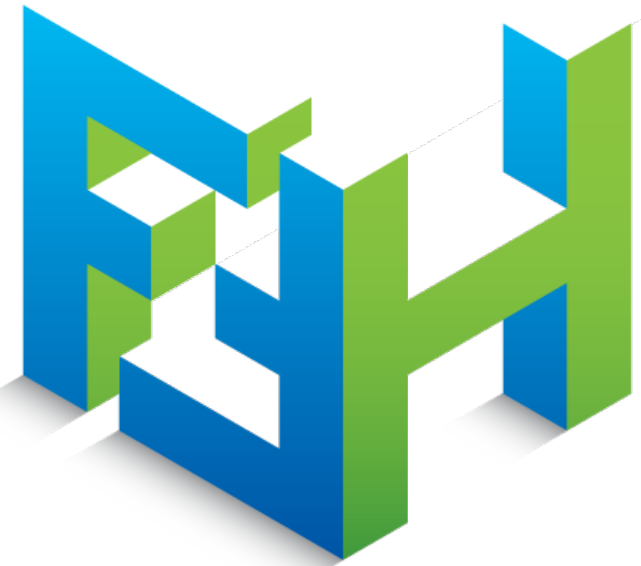


# Fit for Health 2.0

Support to SMEs & Researchers in FP7 and Horizon 2020 health-oriented projects

## Introduction to Horizon 2020



[www.fitforhealth.eu](http://www.fitforhealth.eu)

20.05.2015 | BUCHAREST

Michaela Pöter | Management Jülich



Fit for Health is funded by  
the European Commission



# Content

1. Horizon 2020: Structure and Key Objectives
2. Priority I: Excellent Science
3. Priority II: Industrial Leadership
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# EU Funding for Research and Innovation



# Overview of Horizon 2020



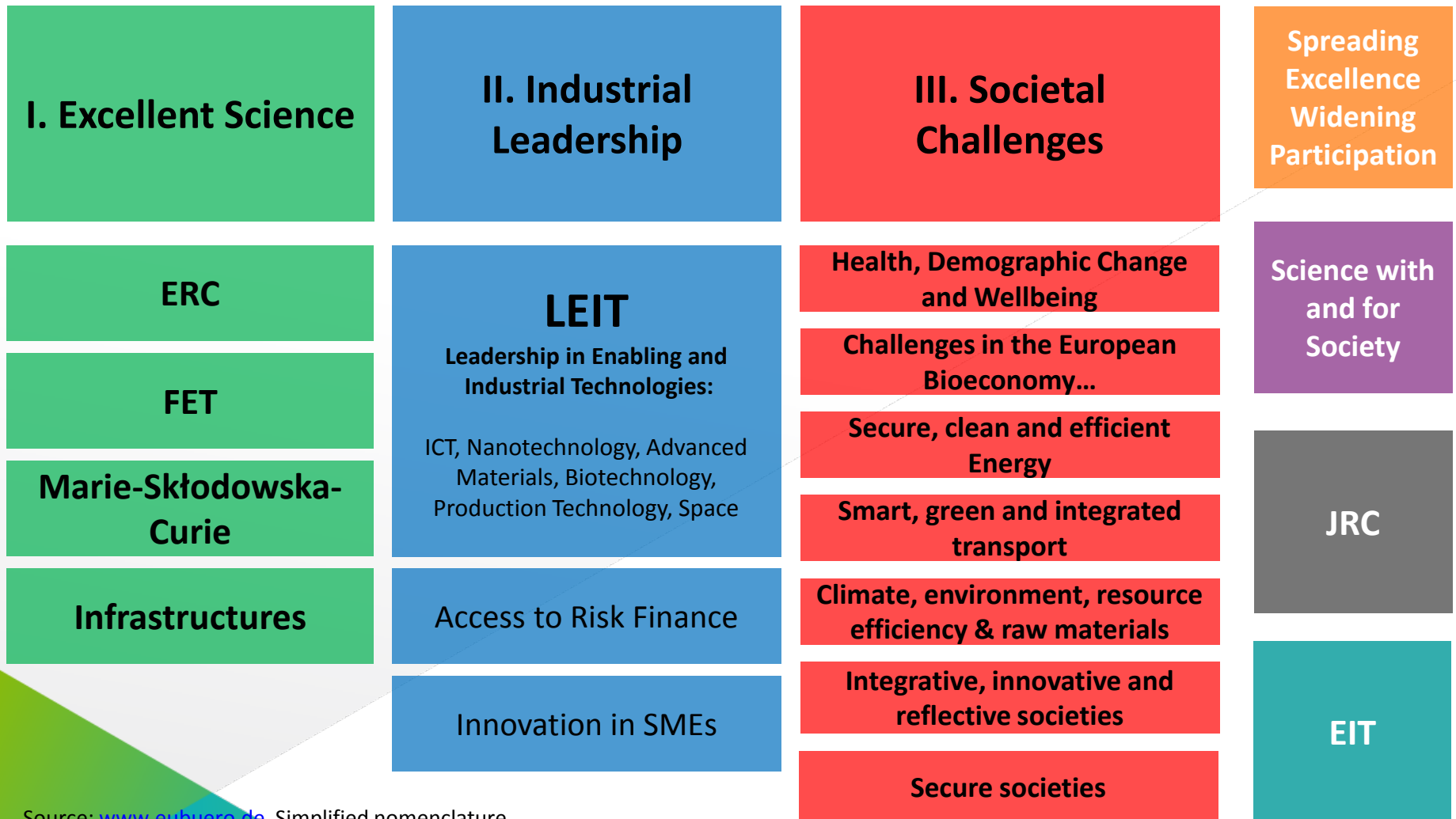
## HORIZON 2020

- Public largest international, competitive, cooperative Research & Innovation Programme for the period 2014-2020
- Leading instrument for the implementation of the European Research Area
- Specific programme: pre-defined thematic areas
- Supports competitiveness in Europe
- Beyond Europe: International Cooperation

# Specificities of Horizon 2020

- More innovation: from research to commercialisation of all forms of innovation
- Focus on societal challenges faced by EU society including health, food security, clean energy and transport
- Simplified access for all companies, universities, institutes in all EU countries and beyond.

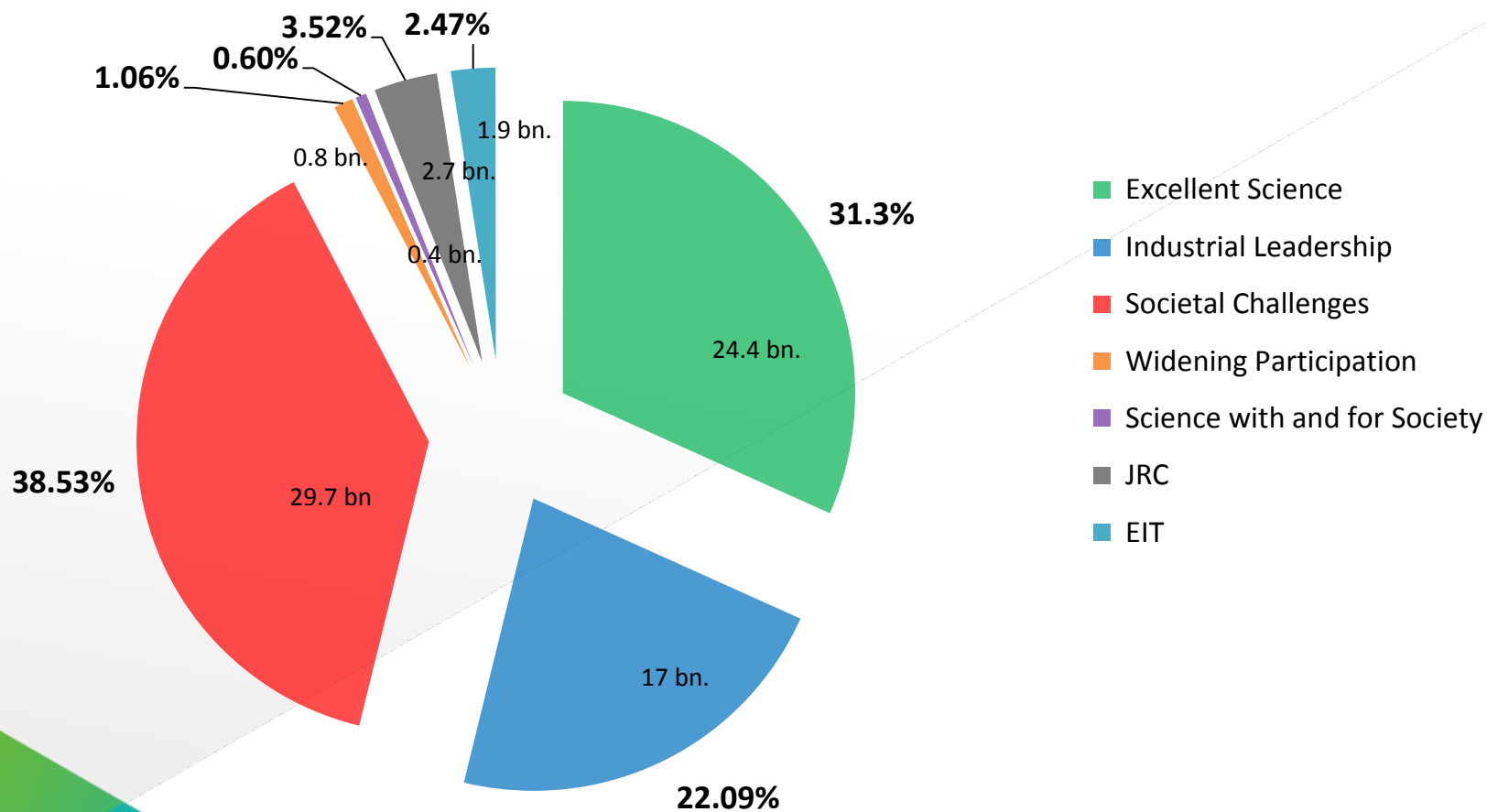
# Structure of Horizon 2020



Source: [www.eubuero.de](http://www.eubuero.de). Simplified nomenclature

# Budgetary Breakdown (EUR)

For 2014-2020 : 77.0 bn. EUR (342.5 bn. RON)



Source: [www.eubuero.de](http://www.eubuero.de)



# Terminology in Horizon 2020

<b>II. Industrial Leadership</b>	Part II, Priority
<b>LEIT</b> Leadership in Enabling and Industrial Technologies	Specific Objective
ICT, Nanotechnology, Biotechnology...	Activity Line
Next generation Computers: Advanced calculation systems and technologies, including Cloud Computing	Topic(s)

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# I. Excellent Science

## I. Excellent Science

ERC

FET

Marie-Skłodowska-  
Curie

Infrastructures

### Objectives:

- Reinforce and widen excellence in science
- Consolidate the European Research Area
- Increase the global competitiveness of the research and innovation system in Europa

### Trends:

- Science-driven projects
- Predominantly „bottom-up“
- Possibility of cofunding from member states
- Researchers set the research agenda

# European Research Council (ERC)

## I. Excellent Science

ERC

FET

Marie-Skłodowska-Curie

Infrastructures

[NCP-ERC](#)

- **Total budget:** 11.9 bn. EUR
- **Starting Grants**  
2-7 years after PhD,  
up to 2 m. EUR for max. 5 years
- **Consolidator Grants**  
7-12 years after PhD,  
up to 2.75 m. EUR for max. 5 years
- **Advanced Grants**  
for experienced and excellent researchers,  
up to 3.5 m EUR for max. 5 years
- **Synergy Grants**  
for consortia from two to four  
excellent researchers,  
up to 15 m EUR for max. 6 years
- **Proof-of-Concept**  
for ERC Grantees to implement the  
innovation dimension of an idea (0.15 m. EUR)

# Future and Emerging Technologies (FET)

## I. Excellent Science

ERC

FET

Marie-Skłodowska-Curie

Infrastructures

[NCP-FET](#)

- **Total budget:** 2.5 bn. EUR
- Cutting-edge research in new Technologies
- **FET Open:**
  - Theme open, early research in technologies through cooperative projects
- **FET Proactive:**
  - Specific Funding for new themes
  - Support for research clusters
  - Setting of Communities
- **FET Flagship:**
  - Design of a research agenda
  - Research initiatives in a think-big dimension: so far GRAPHENE und Human Brain Project

# Marie Skłodowska-Curie Actions (MSCA)

## I. Excellent Science

ERC

FET

Marie-Skłodowska-  
Curie

Infrastructures

[NCP-MOBILITY](#)

- **Total budget:** 5.6 m. EUR
- **Action 1:** Innovative Training Networks (ITN)  
Training for PhDs
- **Action 2:** Individual Fellowships (IF)  
Funding for experienced researchers (post-doc)
- **Action 3:** Research and Innovation Staff Exchange (RISE)  
Exchange of staff within cooperation projects
- **Action 4:** COFUND  
Mechanism of co-funding for (national) mobility programmes

# Infrastructures

## I. Excellent Science

ERC

FET

Marie-Skłodowska-  
Curie

Infrastructures

[NCP-INFRA](#)

- **Total budget:** 2.3 m. EUR

### Objectives:

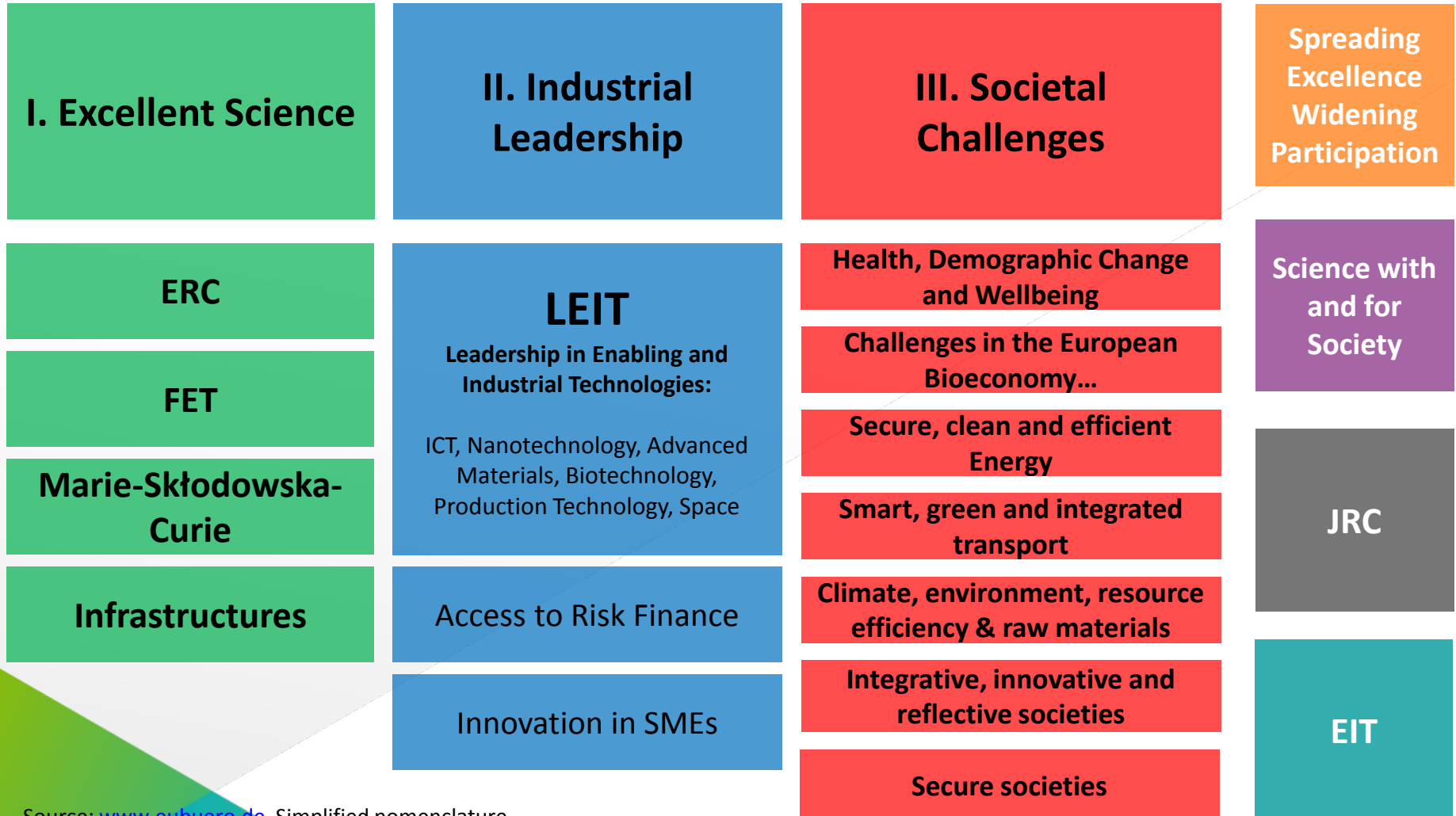
- Integration of existing research infrastructures
- Construction of new research organisations and facilities of common european interest
- Funding instrument: Combination of cooperation projects and coordination and support actions

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# Structure of Horizon 2020



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## II. Industrial Leadership

### II. Industrial Leadership

#### LEIT

Leadership in Enabling and Industrial Technologies:

ICT, Nanotechnology, Advanced Materials, Biotechnology, Production Technology, Space

Access to Risk Finance

Innovation in SMEs

#### Objectives:

- Fast-track development of technologies and innovation
- Key Enabling Technologies: KET
- Fundamentals of tomorrow's business
- Support of innovative European SMEs

#### Trends:

- Industrial strategic agendas dictate the calls
- Close-to-market activities
- Adapted conditions
- Industry with a key role
- „Top-down“

# KET Biotechnology

## II. Industrial Leadership

### LEIT

Leadership in Enabling and Industrial Technologies:

ICT, Nanotechnology, Advanced Materials, Biotechnology, Production Technology, Space

Access to Risk Finance

Innovation in SMEs

### Workprogramme of KET Biotech

- Support of cutting-edge biotechnologies as future innovative force
- Industrial biotechnology
- Innovative and competitive technology platforms

NCP-BIO

# KET Nanotechnology: Nanomedicine

## II. Industrial Leadership

### LEIT

Leadership in Enabling and Industrial Technologies:

ICT, Nanotechnology, Advanced Materials, Biotechnology, Production Technology, Space

Access to Risk Finance

Innovation in SMEs

Section „Nanotechnology and Advanced Materials for a more effective Healthcare“:

- Enable more effective therapies and diagnostics through nanotechnologies and advanced materials
- Clinical tests of new developments are foreseen
- Industry including SMEs are key players

NCP-NMP

# Access to Risk Finance

## II. Industrial Leadership

### LEIT

Leadership in Enabling and Industrial Technologies:

ICT, Nanotechnology, Advanced Materials, Biotechnology, Production Technology, Space

Access to Risk Finance

Innovation in SMEs

[NCP-FINANCE](#)

#### Financial Instruments:

- Loans Service for R&I
- SMEs & Small Midcaps R&I Loans Service
- Equity Facility for R&I
- Technology Transfer Financing Facility Pilot

#### External Expertise:

- Assessing the Investment Potential of SMEs Emerging from Phase I of the SME Instrument
- Technical and Financial Advisory Service for Risk Finance in R&I

#### Studies:

- Understanding the Intellectual Property Aggregation Marketplace
- Understanding the Nature and Impact of Angel and Crowd-Funding in R&I
- ...

<http://access2eufinance.ec.europa.eu/>

[www.fitforhealth.eu](http://www.fitforhealth.eu)

# Innovation in SMEs

## II. Industrial Leadership

### LEIT

Leadership in Enabling and Industrial Technologies:

ICT, Nanotechnology, Advanced Materials, Biotechnology, Production Technology, Space

Access to Risk Finance

Innovation in SMEs

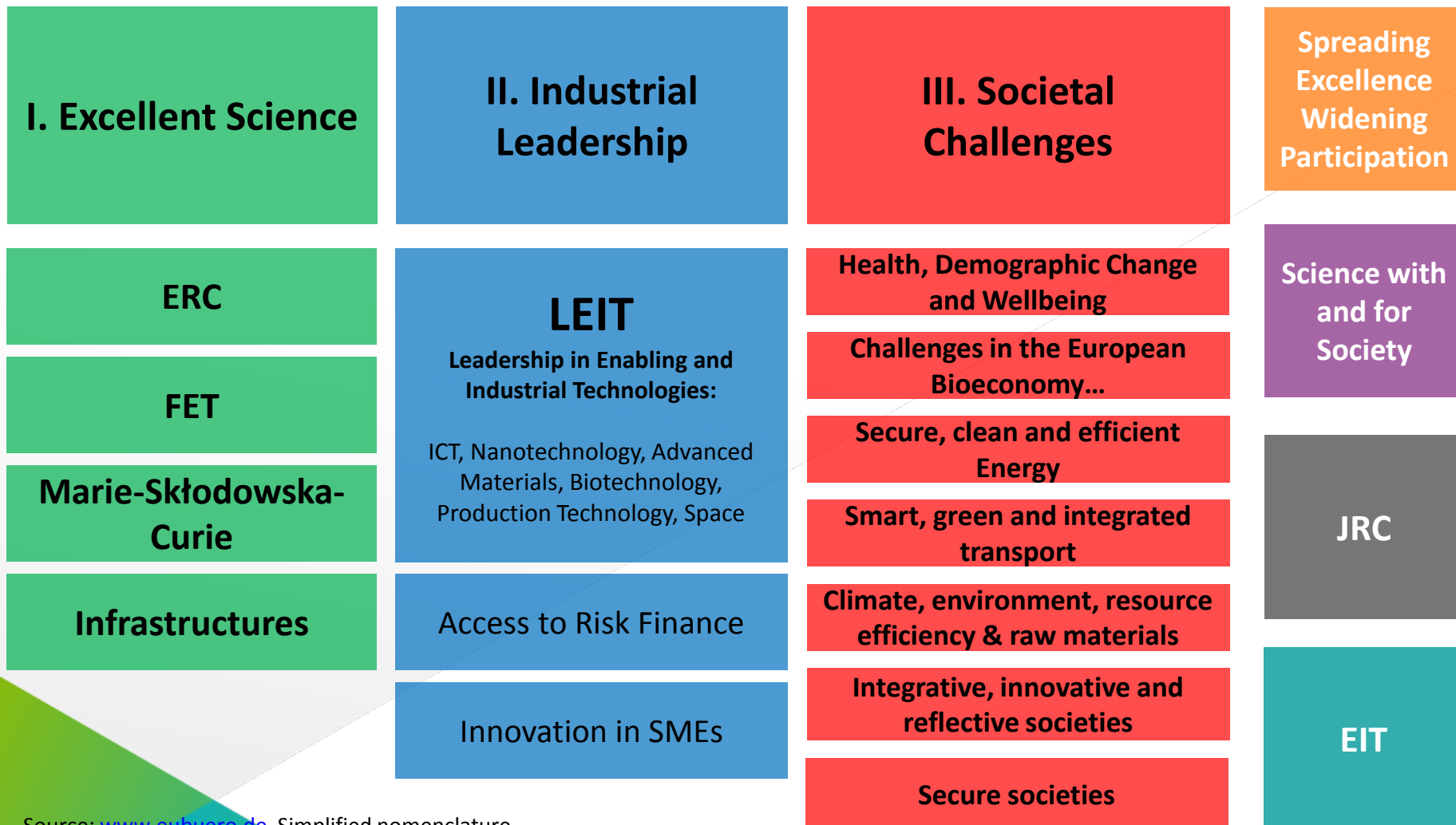
- **Aim:** close the gap for early phases of high risk research and innovation
- **Broad meaning of innovation:** technological and non-technological, social and service innovation (European added-value)
- **Implementation:** Reference to topics with SME instrument in other programmes

NCP-SME

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# Structure of Horizon 2020



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## III. Societal Challenges

### III. Societal Challenges

Health, Demographic Change and Wellbeing

Challenges in the European Bioeconomy...

Secure, clean and efficient Energy

Smart, green and integrated transport

Climate, environment, resource efficiency & raw materials

Integrative, innovative and reflective societies

Secure societies

#### Objectives:

- Alignment to political Focus (Strategy EU 2020)
- Complete cycle from research to commercialisation. Focus on innovation
- Build critical mass – transdisciplinary research

#### Trends:

- Tight collaboration with other DGs during design of workprogramme
- Coordination and completion with ERA-Nets and JPIs – Mobilisation of complementary funding for research and innovation
- Focus on 7 areas (Societal Challenges)
- Coverage of the complete innovation chain: research, technological development, demonstration and innovation activities
- „Top-down“

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[NCP-HEALTH](#)

Source: [www.eubuero.de](http://www.eubuero.de)

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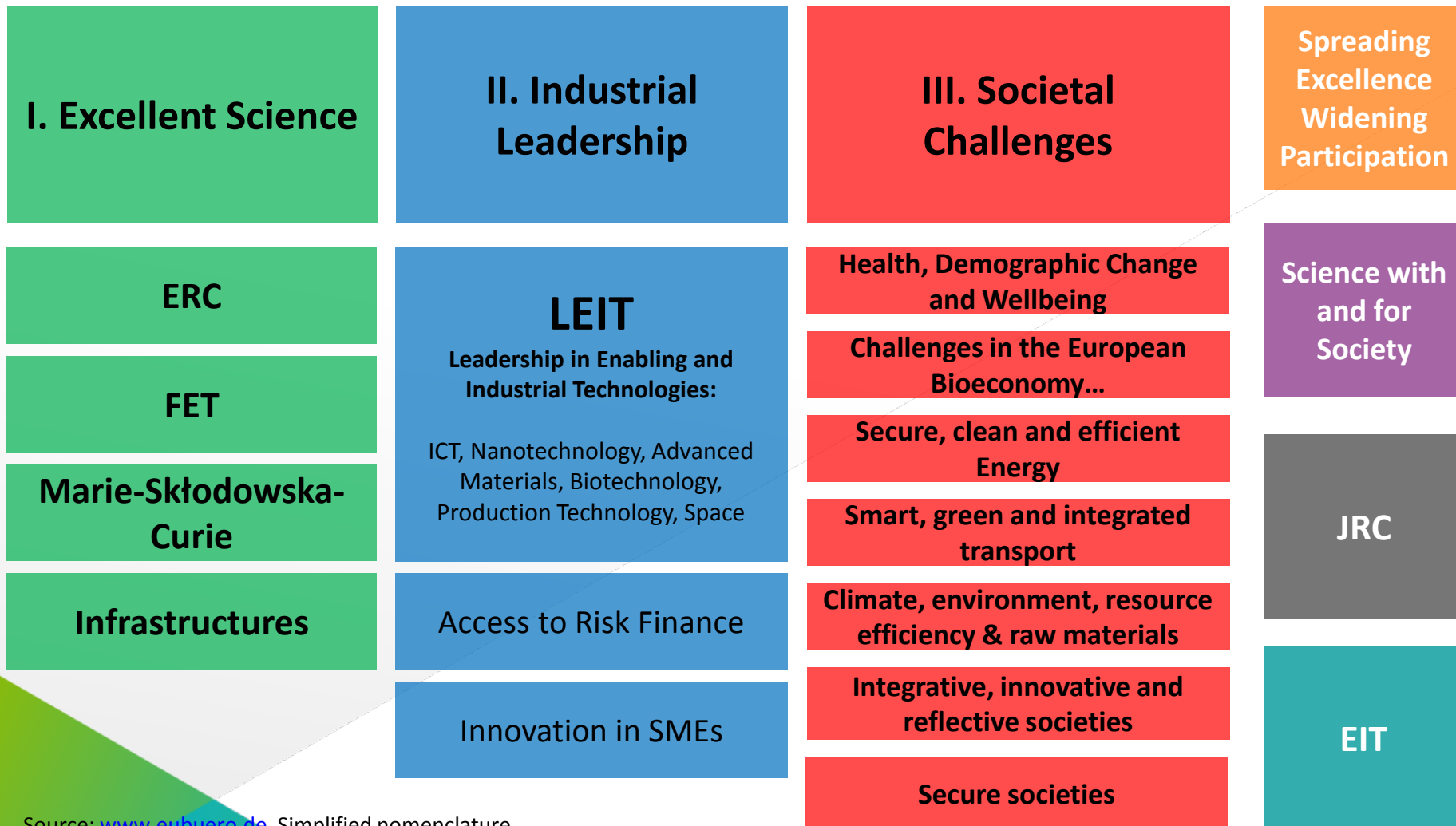
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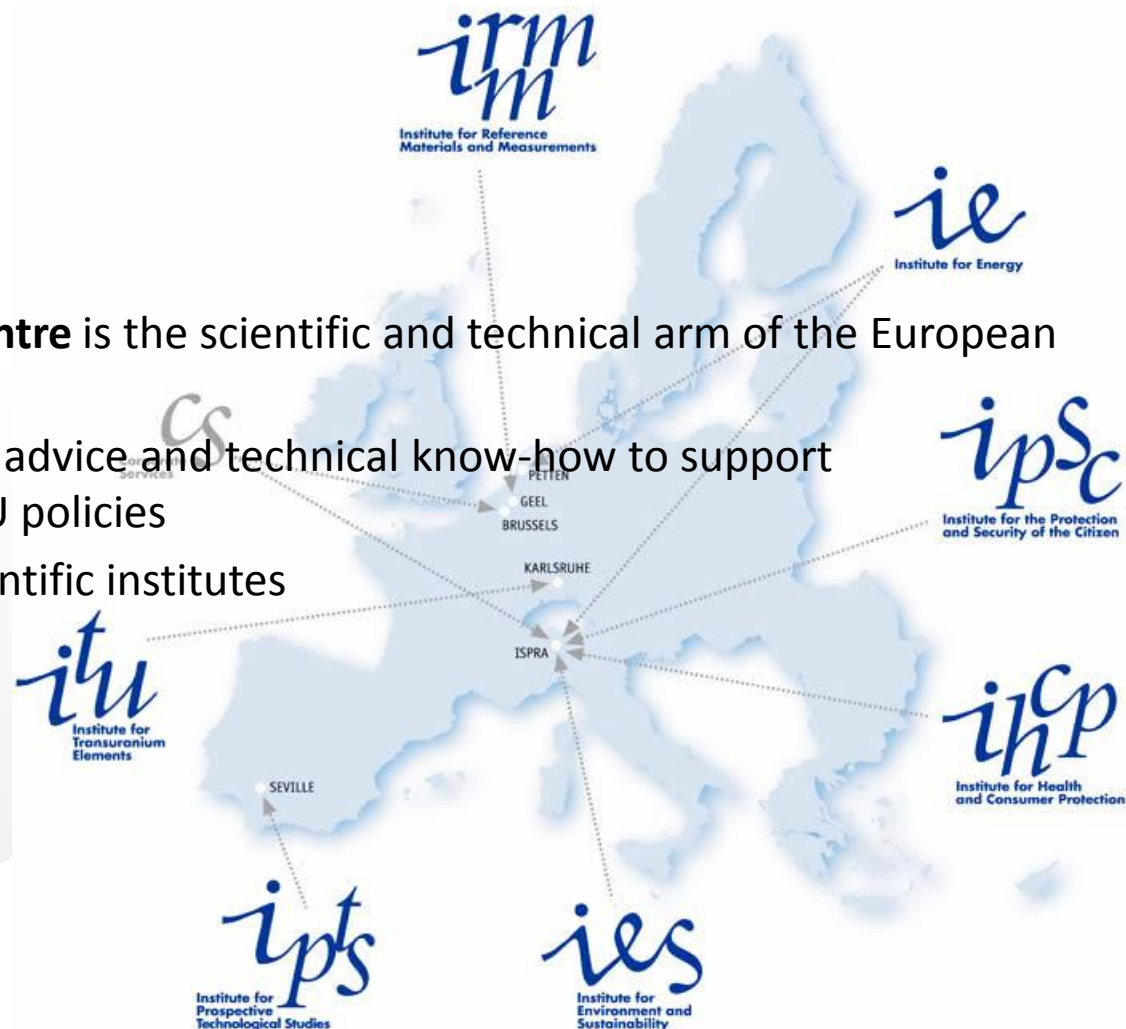
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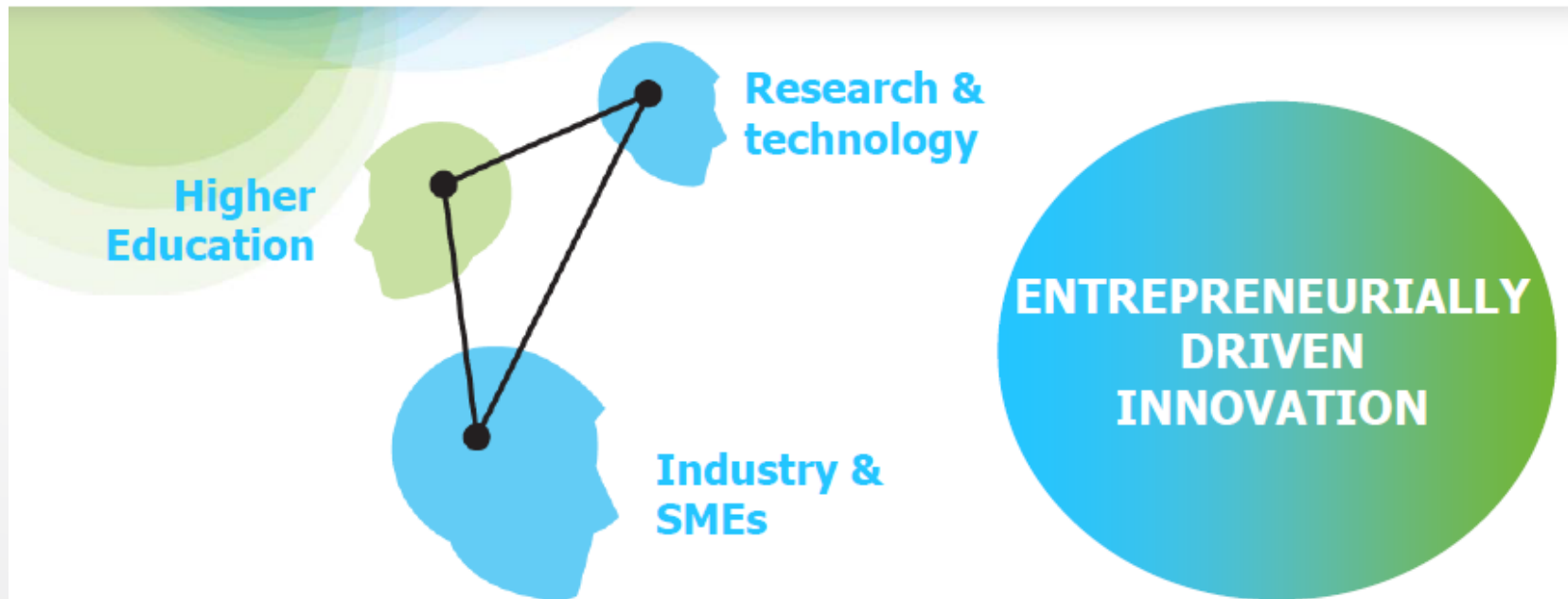
# Joint Research Centres (JRC)

- **Joint Research Centre** is the scientific and technical arm of the European Commission
- Provides scientific advice and technical know-how to support a wide range of EU policies
- JRC has seven scientific institutes



# European Institute of Technology (EIT)

## THE EIT PROPOSITION FOR INNOVATION: INTEGRATING THE KNOWLEDGE TRIANGLE



Actors within the knowledge triangle are at the core of the **innovation web** beyond the traditional collaborative R&D consortia

# Knowledge & Innovation Communities (KIC)

Year	KIC	Thematic
2010	Climate-KIC	Climate change mitigation and adaptation
	EIT ICT Labs	Information and communication technologies
	KIC InnoEnergy	Sustainable energy
2014	EIT Health	Healthy living and active ageing
	EIT Raw Materials	Sustainable exploration, extraction, processing, recycling and substitution
2016	?	<b>Food</b> for the future
	?	Added value <b>manufacturing</b>
2018	?	Urban <b>mobility</b>

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## Participation of SMEs

- **Integrated approach** - around 20% of the total budget for societal challenges and LEITs to go to SMEs
- **Simplification** of particular benefit to SMEs (e.g. single entry point)
- **SME instrument**, used across all societal challenges as well as for the LEITs
- **Fast Track to Innovation** Pilot, relating to any field under the societal challenges or LEITs
- **'Access to risk finance'** will have a strong SME focus (debt and equity facility)



Thank you!

Dr. Michaela Pöter | Management Jülich

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