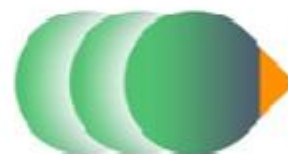




Bari – 26<sup>th</sup> March 2014  
Innofood SEE final conference



INNO-FOOD  
SEE

HORIZON 2020

Serena Borgna

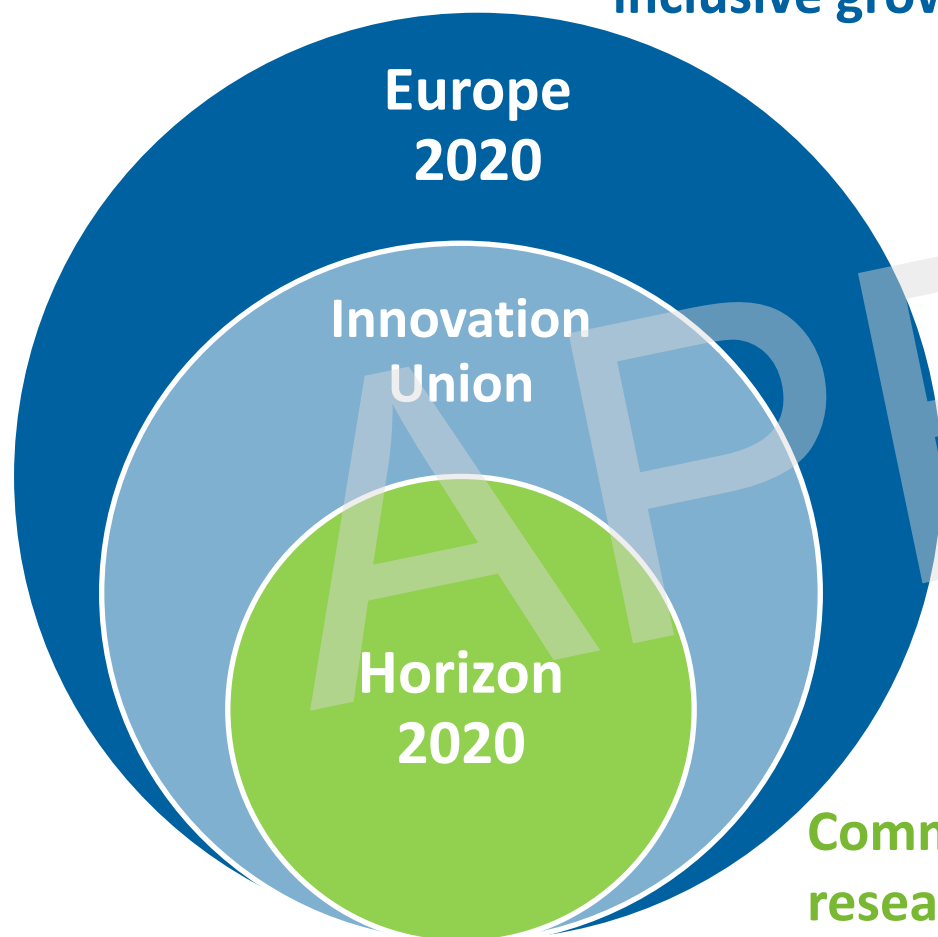
Nazionale Contact Point: Bioeconomy – NMP - ERC

[borgna@apre.it](mailto:borgna@apre.it)





Strategy for smart, sustainable and  
inclusive growth.



Flagship initiative on Research and  
Innovation

Common Strategic framework on  
research and innovation (2014- 2020)



# Europe 2020 - 5 objectives

## EMPLOYMENT

75% of the population aged 20-64 should be employed

## R & I

**3% of the EU's GDP should be invested in R&D.**

## CLIMATE CHANGE/ENERGY

A reduction of CO2 emissions by 20%

A share of renewable energies up to 20%

An increase in energy efficiency by 20%

## EDUCATION

The share of early school leavers should be under 10%

At least 40% of the younger generation should have a degree or diploma

## POVERTY / SOCIAL EXCLUSION

20 million fewer people should be at risk of poverty

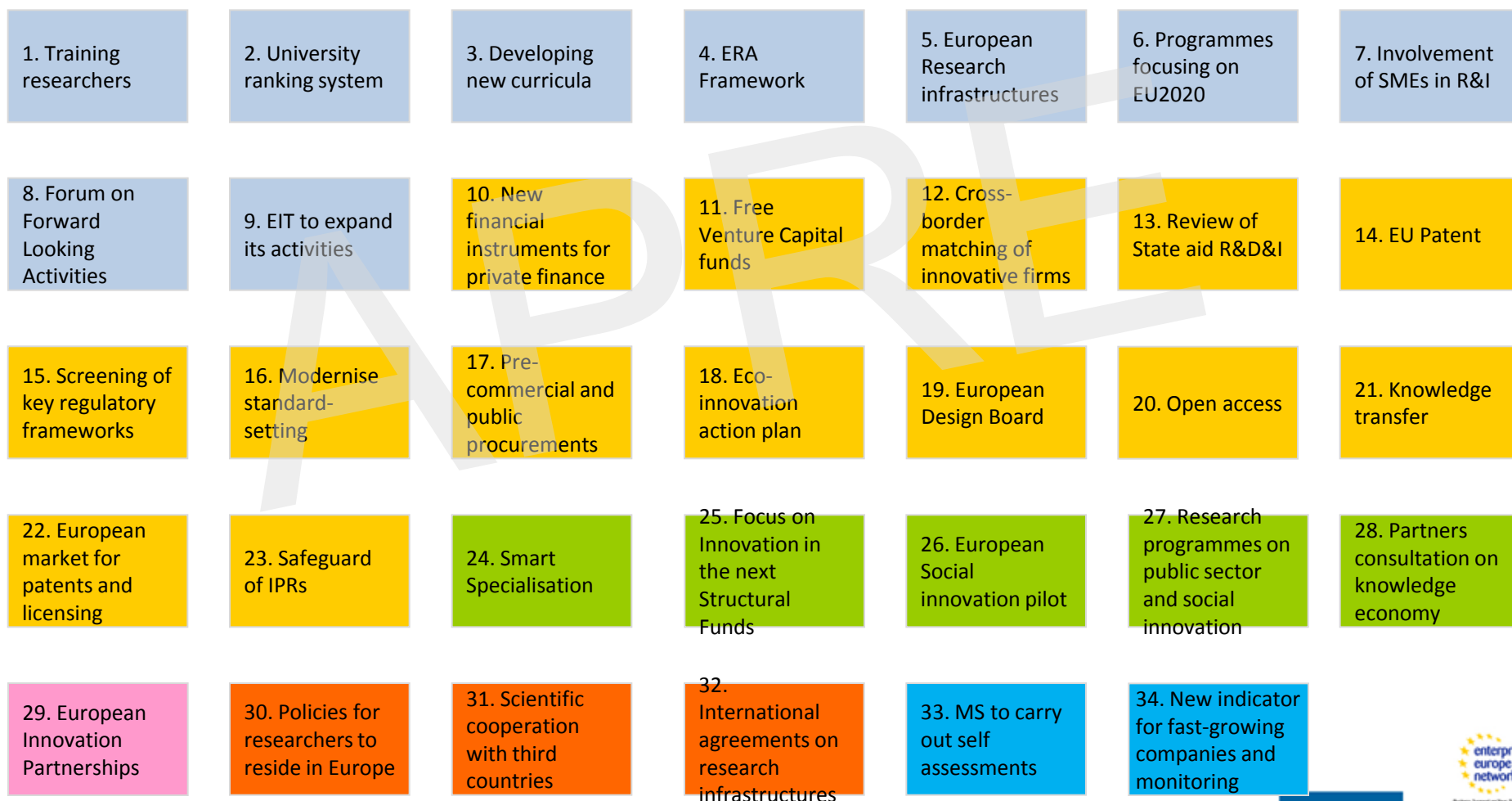


## Le 7 “Flagship Initiatives”

Smart Growth	Sustainable Growth	Inclusive Growth
<p><b>Innovation</b></p> <p>« <u>Innovation Union</u> »</p>	<p><b>Climate, energy and mobility</b></p> <p>« Resource efficient Europe »</p>	<p><b>Employment and skills</b></p> <p>« An agenda for new skills and jobs »</p>
<p><b>Education</b></p> <p>« Youth on the move »</p>	<p><b>Competitiveness</b></p> <p>« An industrial policy for the globalisation era »</p>	<p><b>Fighting poverty</b></p> <p>« European platform against poverty »</p>
<p><b>Digital society</b></p> <p>« A digital agenda for Europe »</p>		



# La Innovation Union/1





# European Innovation Partnership

Active &  
Healthy  
Ageing



Agricultural  
Productivity &  
Sustainability



Raw Materials



Smart Cities &  
Communities

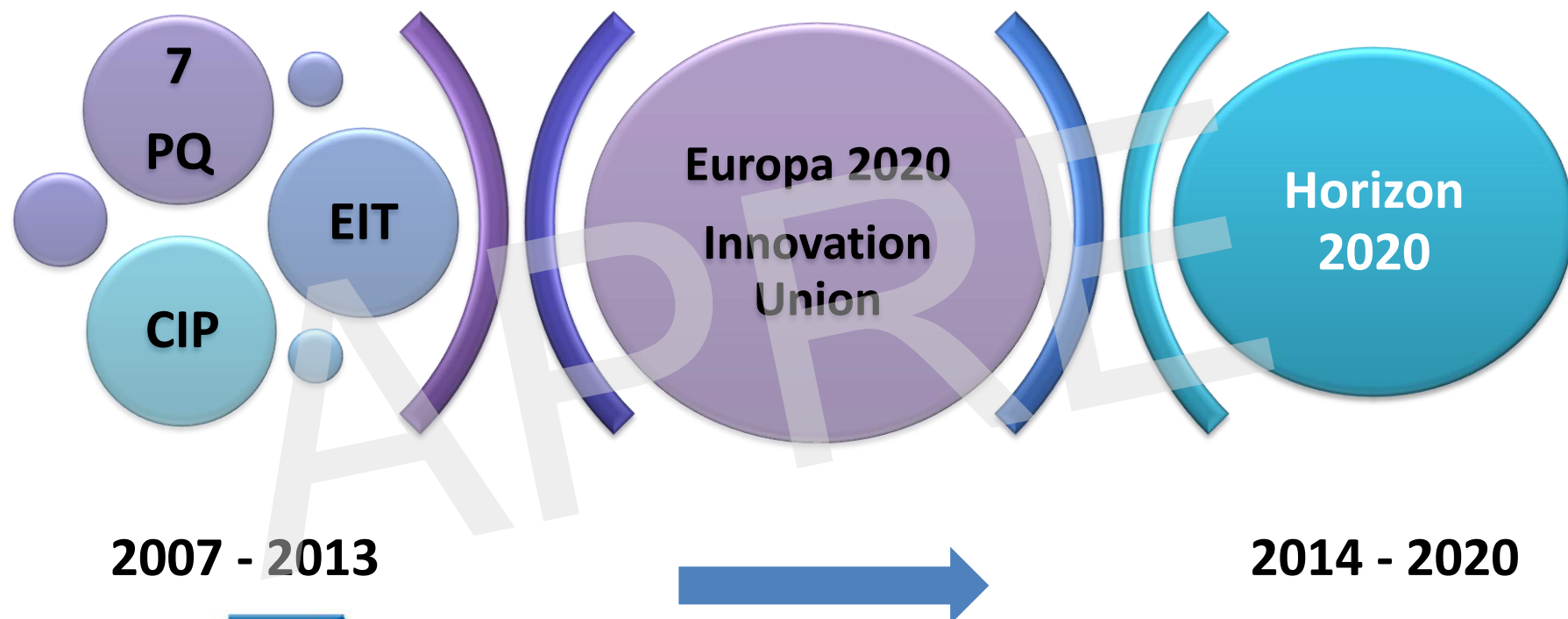


Water





# TOWARD HORIZON 2020





# Structure of the programme

## Excellent Science

- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies**
  - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
  - Opportunities for training and career development
- **Research infrastructures** (including e-infrastructure)
  - Ensuring access to world-class facilities

## Industrial Leadership

- **Leadership in enabling and industrial technologies**
  - ICT, nanotechnologies, materials, biotechnology, manufacturing, space
- **Access to risk finance**
  - Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs**
  - Fostering all forms of innovation in all types of SMEs

## Societal Challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research & the bioeconomy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
- **Climate action, resource efficiency and raw materials**
- **Inclusive, innovative and reflective societies**
- **Security society**

European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)





# 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



# CHANGES

## 7PQ

- Linear thematic calls
- Research plan
- Focus on R&D
- Quantity driven
- Resource intensive
- Linear approach (project design)
- Focus on output



## Horizon 2020

- **Challenge based calls (inter-pillars)**
- Business plan
- **Focus on added value of Innovation**
- Demand/value driven
- Brain intensive (engineering)
- Synergistic approach (*programme engineering -SF*)
- Focus on outcome



**THEMATIC  
BASED**

NEW CONCEPT

**CHALLENGE BASED -  
SYSTEMIC**



# Agreement on budget

\*28th june 2013



70,2 billion € - costant price  
(include EURATOM)

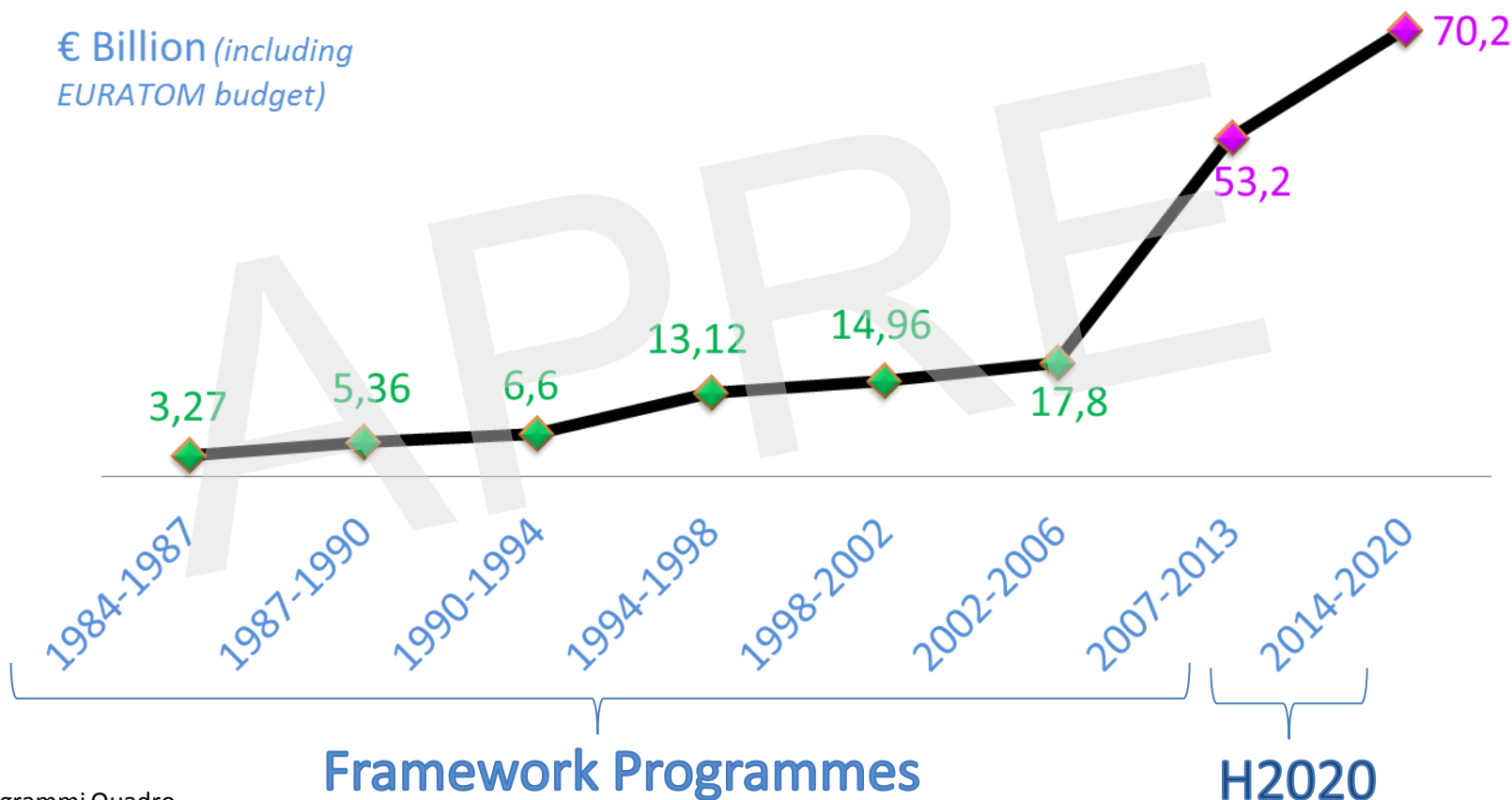
78,6 billion € - current price

Multiannual Financial Framework  
2014/2020 - MFF



# BUDGET FROM FP1 TO HORIZON 2020

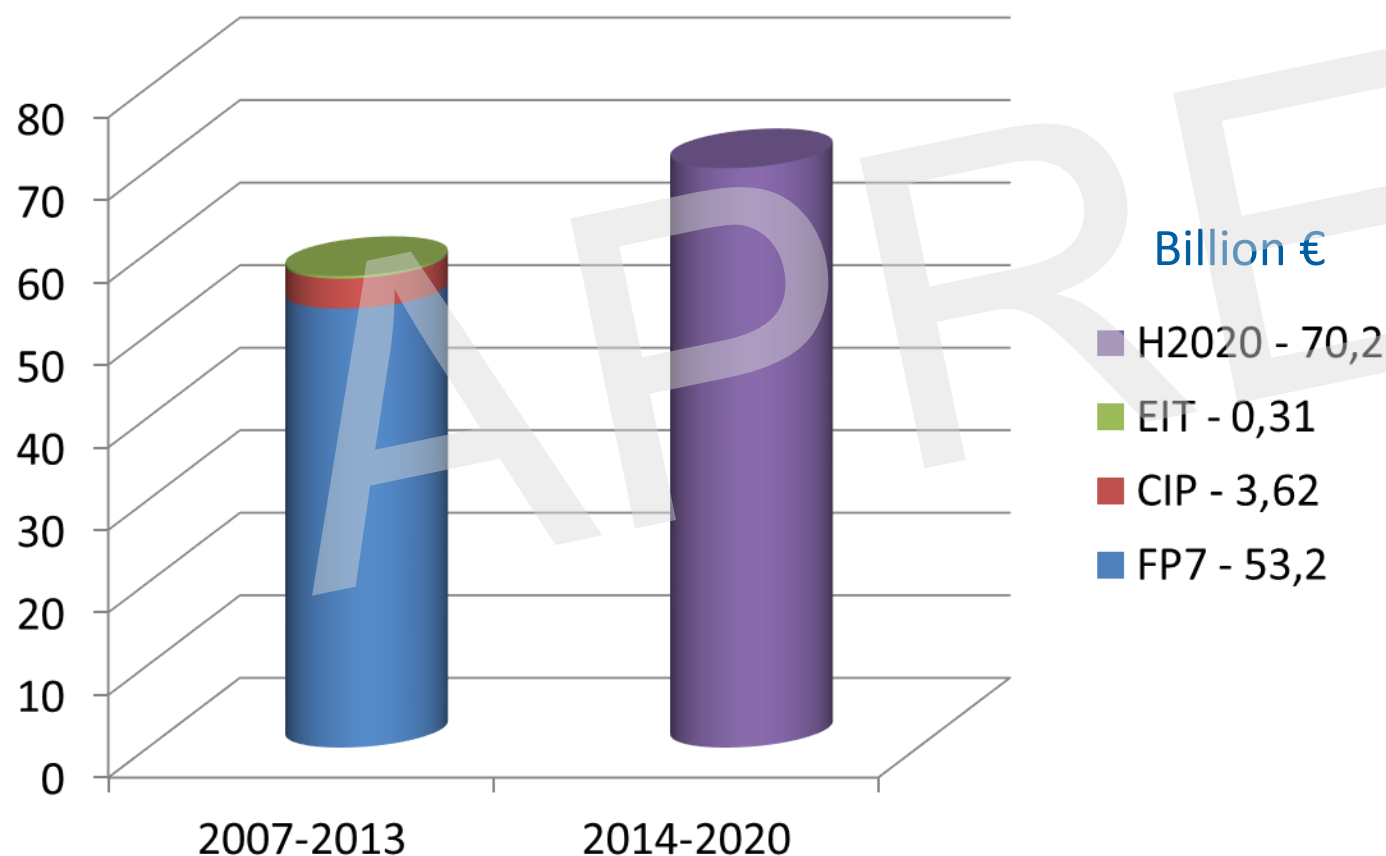
€ Billion (including  
EURATOM budget)



- Programmi Quadro quadriennali e quinquennali
- Programmi Quadro settennali.

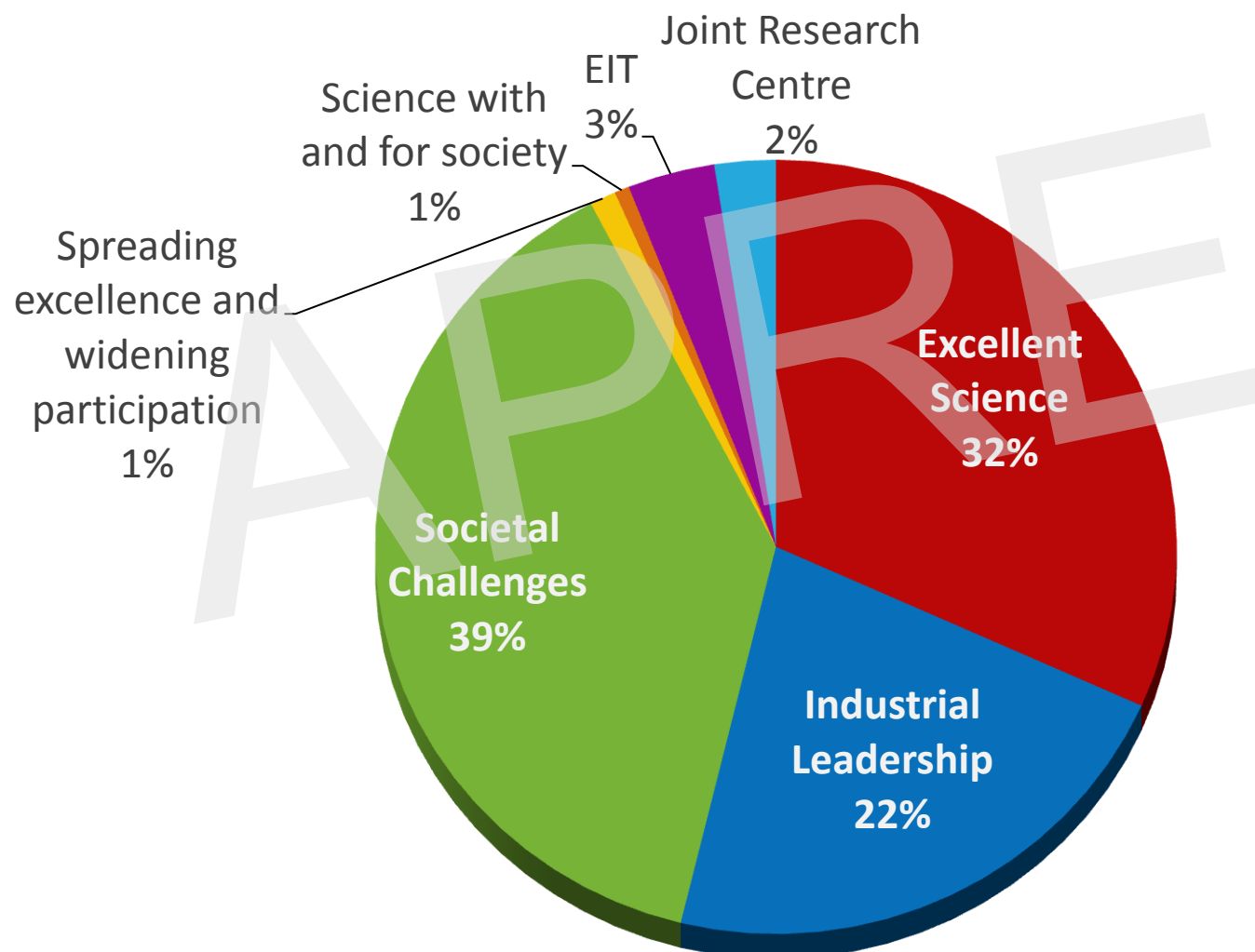


# Budget: past & present





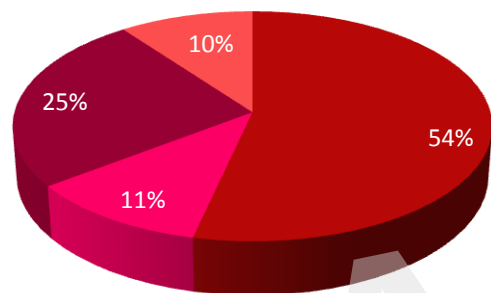
# FINANCIAL BREAKDOWN



# FINANCIAL BREAKDOWN for ACTIVITIES

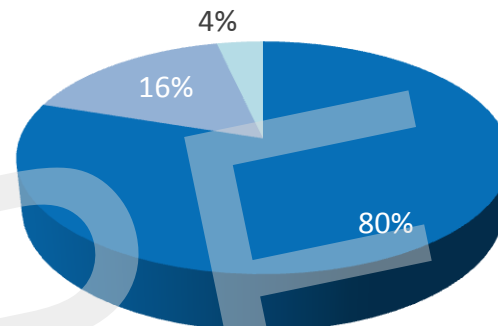
## Excellent Science

- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska Curie Actions
- European Research Infrastructures (including eInfrastructures)



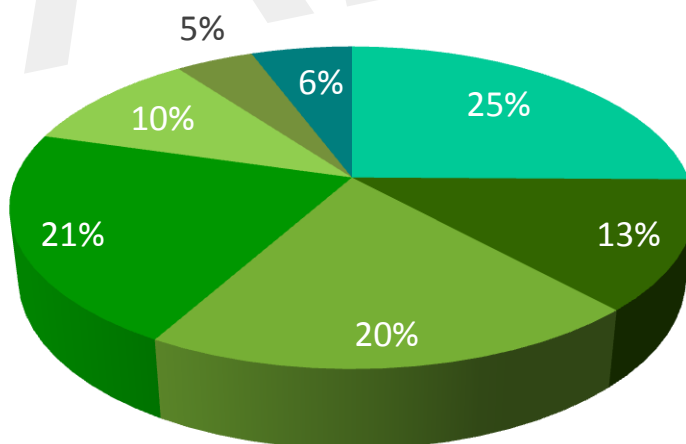
## Industrial Leadership

- Leadership in enabling and industrial technologies
- Access to risk finance
- Innovation in SMEs



## Societal challenges

- 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

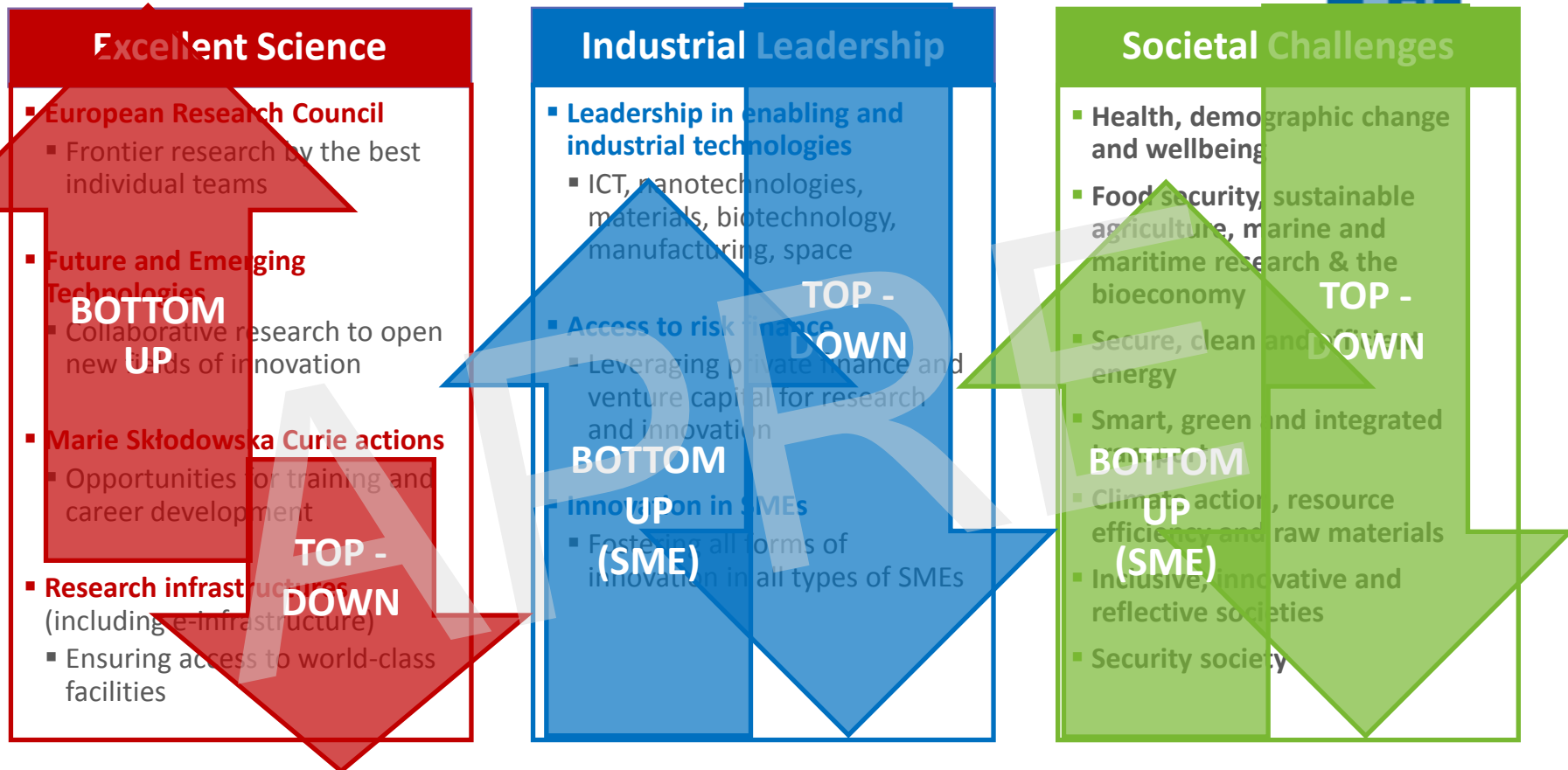




## II budget per attività / 2

	Compromise % 27.06.13	Million € ( current prices)
<b>I. Excellent Science, of which:</b>	31,73%	24.441
<b>1. ERC</b>	17,00%	13.095
<b>2. FET</b>	3,50%	2.696
<b>3. MS Curie Actions</b>	8,00%	6.162
<b>4. Research Infrastructures</b>	3,23%	2.488
<b>II. Industrial Leadership, of which:</b>	22,09%	17.016
<b>Leadership in Enabling and Industrial Technologies</b>	17,60%	13.557
<b>Access to Risk Finance</b>	3,69%	2.842
<b>Innovation in SME's</b>	0,80%	616
<b>II.I Societal Challenges, of which:</b>	38,53%	29.679
<b>Health, demographic change and well being</b>	9,70%	7.472
<b>Food security, sustainable agriculture, marine and maritime research &amp; the bio economy</b>	5,00%	3.851
<b>Secure, clean and efficient energy</b>	7,70%	5.931
<b>Smart, green and integrated transport</b>	8,23%	6.339
<b>Climate action, resource efficiency and raw materials</b>	4,00%	3.081
<b>Europe in a changing world – Inclusive, innovative and reflective society</b>	1,70%	1.309
<b>Secure societies – Protecting freedom and security of Europe and its citizens</b>	2,20%	1.695
<b>Spreading Excellence and Widening Participation</b>	1,06%	816
<b>Science with and for society</b>	0,60%	462
<b>European Institute of Innovation and Technology - EIT</b>	3,52%	2.711
<b>JRC Non-nuclear</b>	2,47%	1.903
<b>Total EU REGULATION</b>	100,00%	77.028
<b>Total EURATOM REGULATION 2014-2018</b>	100,00%	1.603

# STRUCTURE OF THE PROGRAMME



European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)



1° PILLAR

# EXCELLENT SCIENCE



## Excellent Science

- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies**
  - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
  - Opportunities for training and career development
- **Research infrastructures** (including e-infrastructure)
  - Ensuring access to world-class facilities

- 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

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# OBJECTIVEs

L' **ERC** encourages proposals that

- overcome the traditional barriers between disciplines
- focus on new and emerging sectors
- high-risk, high-gain
- ground-breaking



L' **ERC** funds the best researchers and the frontier research:

- Evaluation based on the principle of excellence
- Bottom up approach
- Grants financially significant





# European Research Council

## Starting Grants

starters  
(2-7 years after PhD)  
up to € 2.0 Mio  
for 5 years

## Consolidator Grants

consolidators  
(7-12 years after PhD)  
up to € 2.75 Mio  
for 5 years

## Advanced Grants

track-record of  
significant research  
achievements in  
the last 10 years  
up to € 3.5 Mio  
for 5 years

## Synergy Grants (pilot)

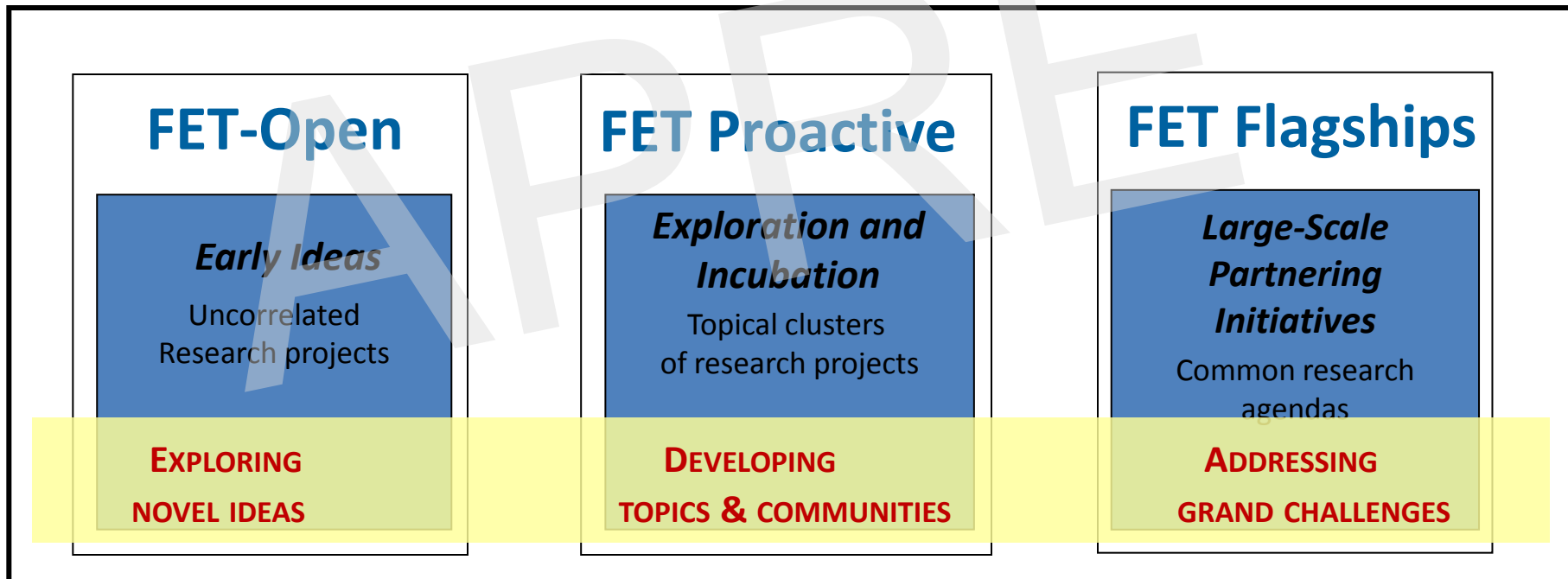
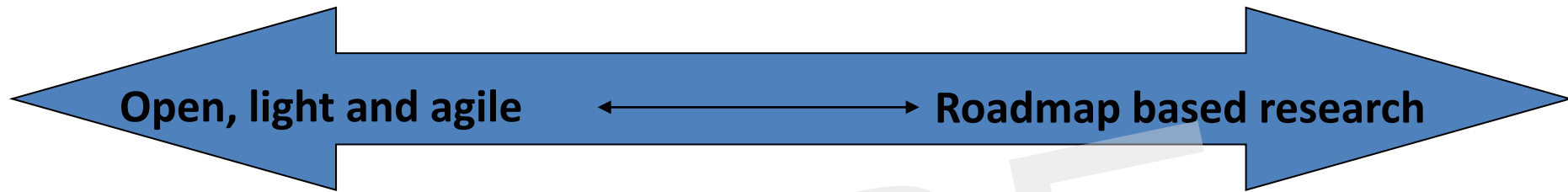
2 – 4 *Principal* Investigators  
up to € 15.0 Mio for 6 years

## Proof-of-Concept

bridging gap between research - earliest  
stage of marketable innovation  
up to €150,000 for ERC grant holders



# FET – three complementary funding schemes





# FET OPEN

'Open is open': all technologies, **NO TOPICAL SCOPE.**

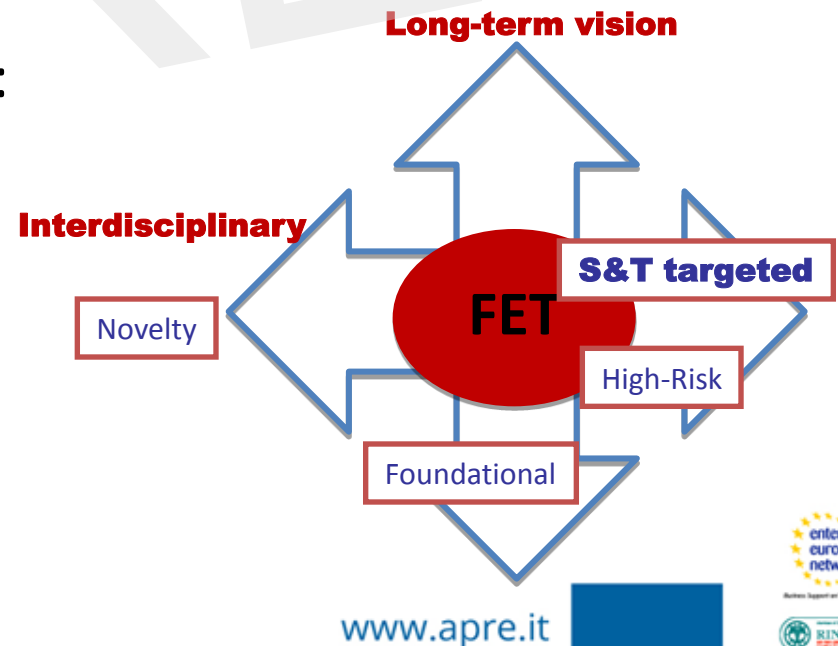
**BOTTOM-UP**, but targeted - not blue sky research

**40% of the FET budget** in H2020 (>1B€). FET gatekeepers define the kind of research that FET is looking for.

An **end-to-end light and fast scheme**:

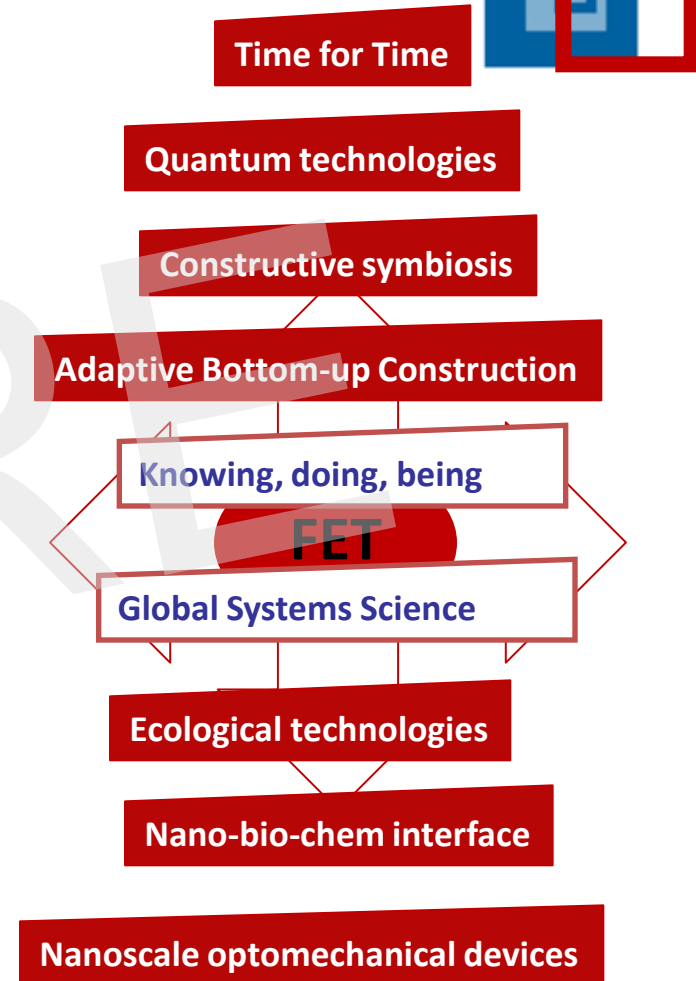
- Deadline free (indicative 30/09/2014)
- 15 page proposals
- 1 step submission, 1 stage evaluation
- 3 evaluation criteria (60% S&T)

Instruments: R&I action - CSA



# FET PROACTIVE

- Topics coming out of the **on-line consultation** (1297 contributions received to the FET on-line consultation, 9 candidate topics + *Complemented by a special action*: high-performance computing)
- **Collaborative research**
- A set of **thematic initiatives** on promising **emerging research themes**.
- Fixed deadlines calls
- 15 page proposals
- 1 step submission, 1 stage evaluation
- 3 evaluation criteria
- Instrument: Research and Innovation Actions (100% funding)



# Marie Skłodowska-Curie Actions - MSCA

**ITN**

(including EID and IDP)

**Innovative  
Training  
Networks (ITN)**

Doctoral and initial training of researchers proposed by international networks of organisations from public and private sectors

**IEF**

**IOF**

**IIF**

**CIG**

**Individual  
Fellowships  
(IF)**

Individual fellowships for most promising experienced researchers to develop their skills through international or inter-sector mobility

**IAPP**

**IRSES**

**R&I Staff  
Exchange  
(RISE)**

International and inter-sector cooperation through the exchange of research and innovation staff

**COFUND**

**COFUND**

Co-funding of regional, national and international programmes



# European Research Infrastructures (ERI)

- The term ‘research infrastructures’ refers to **facilities, resources and related services** used by the scientific community to conduct top-level research in their respective fields, ranging from social sciences to astronomy, genomics to nanotechnologies.
- RIs may be ‘**single-sited**’ (a single resource at a single location), ‘**distributed**’ (a network of distributed resources), or ‘**virtual**’ (the service is provided electronically).
- These key infrastructures have not only been responsible for some of the greatest **scientific discoveries and technological developments**, but are also influential in attracting the best researchers from around the world and in building bridges between national and research communities and scientific disciplines.



Synchrotron SOLEIL – IPANEMA; Archives of the British Museums; PRACE Partnership for Advanced Computing in Europe; Polar and Marine Research Vessel; Radioastronomical facilities



# ERI – WP 2014/2015

## Calls

1. Developing new world-class research infrastructures
2. Integrating and opening research infrastructures of European interest
3. e –infrastructure
4. Reinforcing European research infrastructure policy and international cooperation



2° PILLAR

# INDUSTRIAL LEADERSHIP



# Structure of the programme

## Excellent Science

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  - Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs**
  - Fostering all forms of innovation in all types of SMEs

- Strategic investments 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
- Europe needs more innovative small and medium-sized enterprises (SMEs) to create growth and jobs

European Institute of Innovation and Technology

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)





# WHAT are KETs?

## Key Enabling Technologies

KETs are **knowledge intensive** and associated with **high R&D intensity**, rapid innovation cycles, high capital expenditure and highly-skilled employment. They **enable** process, goods and service innovation throughout the economy and are of systemic relevance. They are **multidisciplinary**, cutting across many technology areas with a trend towards convergence and integration. KETs can **assist technology leaders in other fields** to capitalise on their research efforts

Photonics

Manufacturing

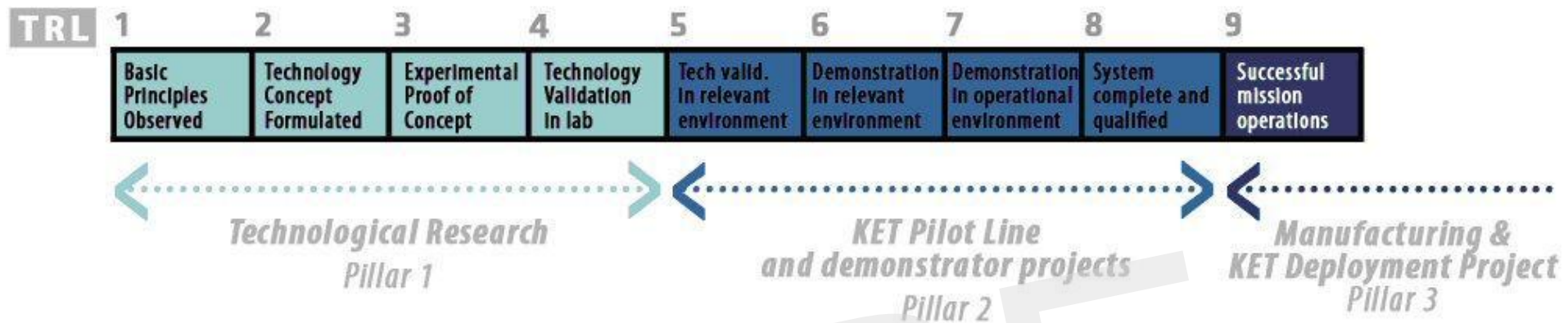
Biotechnology

Advanced Materials

Micro/Nanoelectronics

Nanotechnologies

\* Current situation of key enabling technologies in Europe, SEC (2009)



**TRL 1** – basic principles observed

**TRL 2** – technology concept formulated

**TRL 3** – experimental proof of concept

**TRL 4** – technology validated in lab

**TRL 5** – technology validated in relevant environment (industrial environment in the case of key enabling technologies)

**TRL 6** – technology demonstrated in relevant environment (industrial environment in the case of key enabling technologies)

**TRL 7** – system prototype demonstration in operational environment

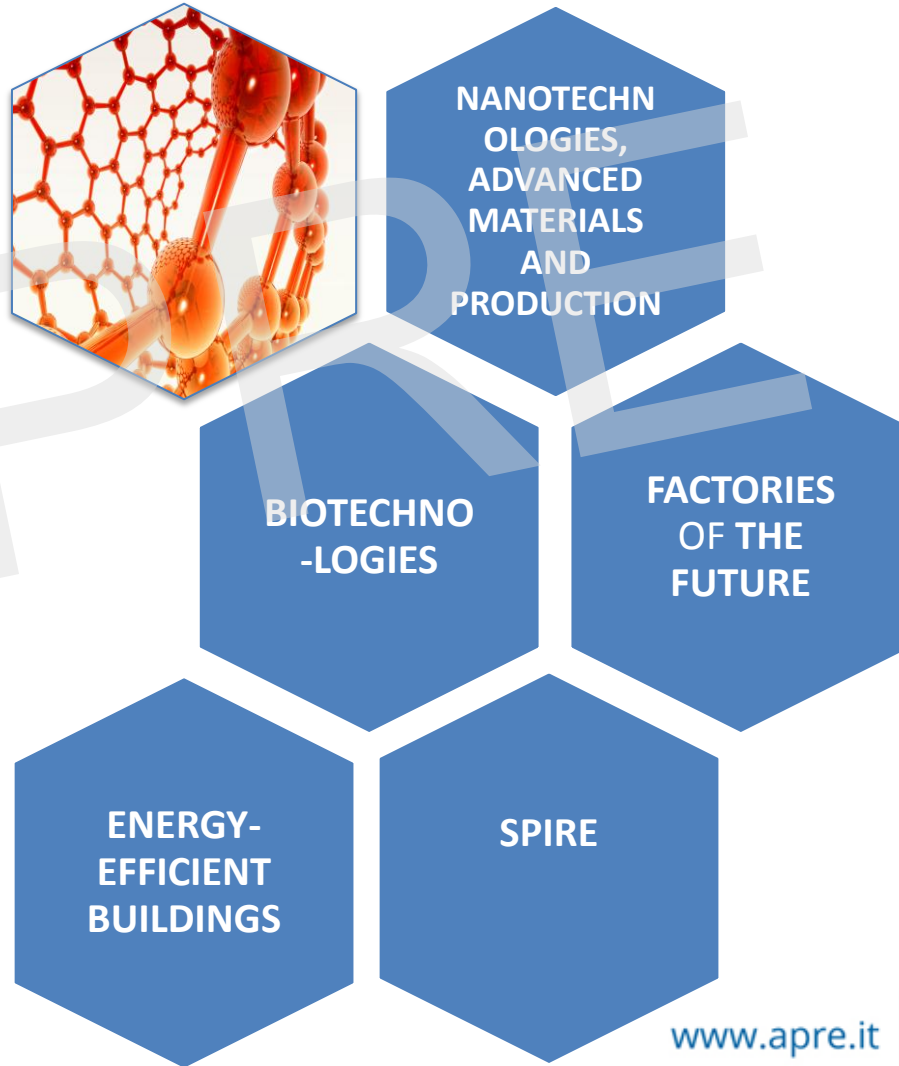
**TRL 8** – system complete and qualified

**TRL 9** – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)



# NMPB - Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

**Calls  
2014/2015**





# ICT – LEIT calls (WP)

1. Components and systems
2. Advanced Computing
3. Future Internet
4. Content technologies and information management
5. Robotics
6. Key Enabling Technologies: Micro- nano-electronics and photonics

+ Factory of the Future cPPP

+ International Cooperation actions (EU-Brazil, EU-Japan)

## ICT Cross cutting activities:

- Internet of Things
- Human-centric Digital Age
- Cybersecurity
- Support to NCPs

## ICT Innovation actions

- Access to finance
- Innovation policy support
- Open disruptive innovation scheme (SME instrument)

# ICT IN H2020

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## Societal Challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research & the bioeconomy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
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European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

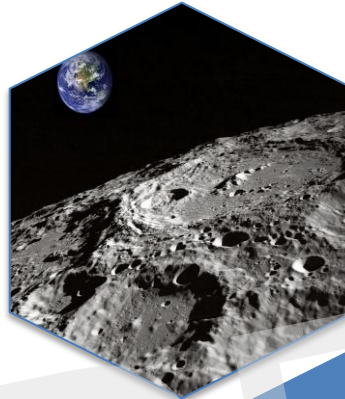
Joint Research Center (JRC)



# SPACE

## CALLS

2014/2015



APPLICA-  
TIONS IN  
SATELLITE  
NAVIGATION  
- GALILEO

EARTH  
OBSERVA-  
TION

PROTECTION  
OF  
EUROPEAN  
ASSETS IN  
AND FROM  
SPACE"

COMPETITIV-  
VENESS OF  
THE  
EUROPEAN  
SPACE SECTOR:  
TECHNOLOGY  
AND  
SCIENCE



SPIRE



3° PILLAR

# SOCIETAL CHALLENGES





# Structure of the programme

- Concerns of citizens and society/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

## Societal Challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
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Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)



# SC1 Health, Demographic Change And Wellbeing

**CALLS -  
FOCUS AREA  
WP 2014 - 15**



## PERSONA- LISING HEALTH AND CARE

\*\* Understanding health, ageing and disease

\*\* Innovative treatments and technologies

\*\* Effective health promotion, disease prevention, preparedness and screening

\*\* Improving diagnosis

\*\* Advancing active and healthy ageing care

\*\* Integrated, sustainable, citizen-centred

\*\* Improving health information, data exploitation and providing an evidence base for health policies and regulation



# SC2 - European Bioeconomy Challenges:

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

**FOCUS AREA**

**2014 -2015:**



Sustainable  
Food  
Security

Blue Growth



Innovative,  
Sustainable  
and Inclusive  
Bioeconomy



# SC3. Secure, Clean And Efficient Energy

## CALLS - FOCUS AREA WP 2014 - 15



- Renewable electricity and heating/cooling
- Modernising the single European electricity grid
- Providing the energy system with flexibility through enhanced energy storage technologies
- Sustainable biofuels and alternative fuels for the European transport fuel mix
- Enabling the sustainable use of fossil fuels in the transition to a low-carbon economy

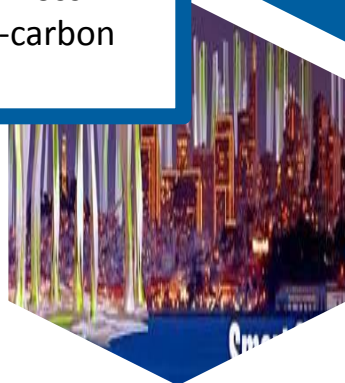
ENERGY  
EFFICIENCY

- Buildings and consumers
- Heating and cooling
- Industry and products
- Finance for sustainable energy

COMPETITIVE  
LOW – CARBON  
ENERGY



SMART CITIES  
AND  
COMMUNITIES





# SC4 Smart, Green and Integrated Transport

**CALLS -  
FOCUS AREA  
WP 2014 - 15**



MOBILITY  
FOR  
GROWTH

AVIATION  
RAIL  
ROAD  
WATERBORNE  
URBAN  
MOBILITY

LOGISTICS  
INTELLIGENT  
TRANSPORT  
SYSTEMS  
INFRASTRUCTURE  
SSH

GREEN  
VEHICLES

SMALL  
BUSINESS  
AND FAST  
TRACK  
INNOVATION  
FOR  
TRANSPORT



# SC5. Climate Action, Resource Efficiency and Raw Materials

## CALLS - FOCUS AREA WP 2014 - 15

- Fighting and adapting to climate change
- Protecting the environment, sustainably managing natural resources, water, biodiversity and ecosystem
- Ensuring the sustainable supply of non-energy and non-agricultural raw materials
- Enabling the transition towards a green economy through eco-innovation
- Developing comprehensive and sustained global environmental observation and information systems
- Cultural Heritage

WASTE

SUSTAINABLE  
DEVELOPMENT  
& CLIMATE  
ACTION

WATER

eco-innovation 



# SC6 Europe in a changing world – Inclusive, Innovative and Reflective societies

**CALLS -  
FOCUS AREA  
WP 2014 - 15**



**OVERCOMING  
THE CRISIS:**  
NEW IDEAS,  
STRATEGIES AND  
GOVERNANCE  
STRUCTURES FOR  
EU

**YOUNG  
GENERATION**  
IN AN  
INNOVATIVE  
INCLUSIVE AND  
SUSTAINABLE  
EUROPE

**EUROPE AS  
GLOBAL  
ACTOR**

**NEW FORMS  
OF  
INNOVATION**

**REFLECTIVE  
SOCIETIES:**  
CULTURAL  
HERITAGE AND  
EUROPEAN  
IDENTITIES





# SC7 Secure Societies: Protecting Freedom And Security of Europe and its Citizens

## CALLS - FOCUS AREA WP 2014 - 15



- Crisis Management and Civil protection with a view to strengthening prevention and preparedness against natural and man-made disasters by underpinning an all-hazard approach to risk assessment across the EU
- ...developing solutions, for climate change adaptation in areas affected by natural disasters
- Critical Infrastructure Protection...
- Communication Interoperability facilitating disaster management...
- Ethical/Societal Dimension.

FIGHT  
AGAIN  
CRIME AND  
TERRORISM

DISASTER-  
RESILIENCE:  
SAFEGUARDING  
AND SECURING  
SOCIETY,  
INCLUDING  
ADAPTING TO  
CLIMATE  
CHANGE



SECURITY:  
CYBERSECURI  
TY, PRIVACY  
AND TRUST

BOARDER  
SECURITY  
AND  
EXTERNAL  
SECURITY



# Strategic programming approach

2014	2015	2016	2017	2018	2019	2020
Strategic Programme					<div>Strategic programmes: short documents outlining priorities over 3 years, updated every two years</div>	
Work Programme 1	Strategic Programme					
<div>Work Programmes mirror the strategic programme and are updated over the same 2-year cycle</div>		Work Programme 2	Strategic Programme			
			Work Programme 3			
						Work Programme 4
Smaller and continuous updates to respond to unexpected developments						
Calls published on basis of WP	Ad hoc financing decision	Calls published on basis of WP	Ad hoc financing decision	Calls published on basis of WP	Ad hoc financing decision	Calls published on basis of WP

Leitmotif of the first work programme is the

**ECONOMIC CRISIS AND THE PATH TO SUSTAINABLE GROWTH** [www.apre.it](http://www.apre.it)

**PERSONALISING HEALTH AND CARE**

**SC1 - Health**  
**SC2 - Bioeconomy**

**SUSTAINABLE FOOD SECURITY**

**SC2 - Bioeconomy**

**BLUE GROWTH: UNLOCKING THE POTENTIAL OF THE OCEANS**

**SC2 – Bioeconomy**  
**SC3 – Energy**  
**SC4 – Transport**  
**SC5 – Environment**

**SMART CITIES AND COMMUNITIES**

**SC3 – Energy**  
**SC4 – Transport**

**COMPETITIVE LOW-CARBON ENERGY**

**SC3 – Energy**

**ENERGY EFFICIENCY**

**SC3 – Energy**  
**SC5 – Environment**

**MOBILITY FOR GROWTH**

**SC4 – Transport**

**WASTE: A RESOURCE TO RECYCLE, REUSE AND RECOVER RAW MATERIALS**

**SC5 – Environment**  
**SC2 – Bioeconomy**  
**LEIT – NMPB**

**WATER INNOVATION: BOOSTING ITS VALUE FOR EUROPE**

**SC5 – Environment**  
**SC2 – Bioeconomy**  
**LEIT – NMPB**

**OVERCOMING THE CRISIS: NEW IDEAS, STRATEGIES AND GOVERNANCE STRUCTURES FOR EUROPE**

**SC6 – SSH**

**DISASTER-RESILIENCE: SAFEGUARDING SOCIETY AND ADAPTING TO CLIMATE CHANGE**

**SC7 – Security**  
**SC5 – Environment**

**DIGITAL SECURITY**

**SC7 – Security**



# Work Programme TOPICS

## Structure

### SPECIFIC CHALLENGE

- sets the context, the problem to be addressed, why intervention is necessary

### SCOPE

- delineates the problem, specifies the focus and the boundaries of the potential action BUT without describing specific approaches

### EXPECTED IMPACT

- describe the key elements of what is expected to be achieved in relation to the specific challenge

# TOPIC ICT EXAMPLES

## ICT 29 – 2014 Development of novel materials and systems for OLED lighting<sup>35</sup>

Specific Challenge: In the last 10 years, European industry (both SMEs and large companies) has made significant investments in OLED technologies, i.e., materials, devices and manufacturing processes. However, major S&T progress and research and innovation (R&I) investments are required in OLEDs, in particular for the realisation of flexible, high brightness light sources over large areas. The further technological development of OLEDs is expected to give Europe a leading position on the world general lighting market and create new manufacturing jobs for novel consumer products. Moreover, the move to OLEDs would help in reducing the amount of electricity consumed by lighting and limiting carbon dioxide emissions.

### Scope:

Research & Innovation Actions should focus on materials, process and device technology for OLED lighting. The aim is to realise OLED devices over larger surfaces, with higher brightness, larger uniformity and longer lifetimes. A demonstrator should be provided at the end of every project. A specific target for OLED lighting is energy efficacy of above 100 lm/W, considering also improved out-coupling efficiency. The materials have to allow for a competitive lifetime for all colours and white light (lifetime of several hundred hours at 97% of the original intensity). Attention should be paid to recyclability issues and the environmental impact of the materials and systems as appropriate. Proposals should involve material suppliers, OLED manufacturers or suppliers and OLED system integrators.

### Expected impact:

- Cost performance breakthroughs - lighting systems with production costs of 1€/100 lm.
- Secured and reinforced industrial technology leadership and substantially increased market presence in lighting.
- Improved business opportunities and value creation in Europe in lighting by reinforced cooperation along the value chain.

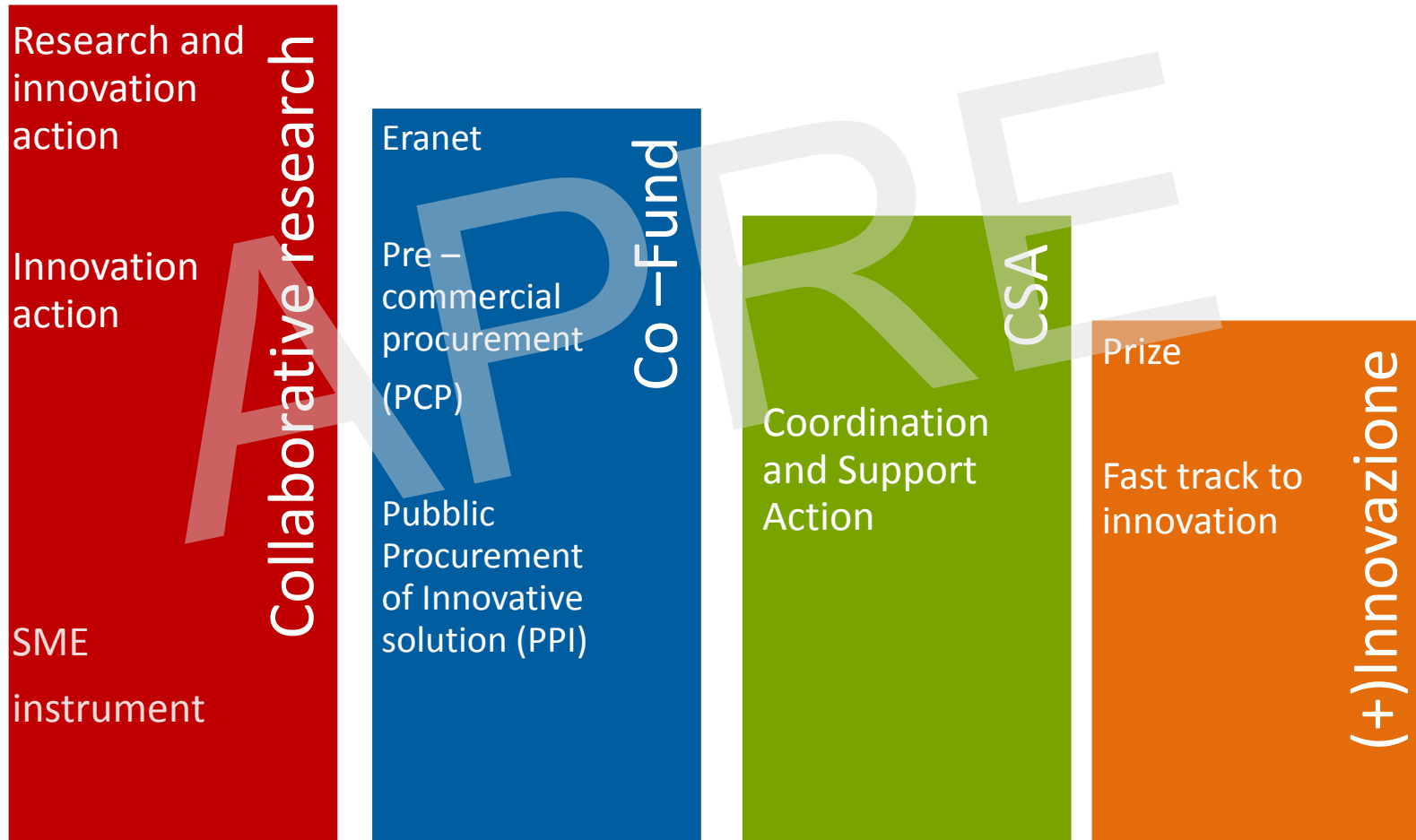
### Type of Action:

Research & Innovation Actions – *Proposals requesting a Small contribution* are expected

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*



# Types of projects





# Forms of funding

- **Grants**
  - Direct financial contribution by way of donation in order to finance an action
- **Prizes**
  - Financial contribution given as reward following a contest
- **Procurement**
  - Supply of assets, execution of works or provision of services against payment
- **Financial instruments**
  - Equity or quasi-equity investments; loans; guarantees; other risk-sharing instruments



# TIPOLOGIE AZIONI

Research and innovation action

Innovation action

Strumento PMI

**Ricerca collaborativa**

Eragnet

Pre – commercial procurement (PCP)

Public Procurement of Innovative solution (PPI)

**Co – Fund**

**CSA**

Coordination and Support Action

Prize

Fast track to innovation

**(+)Innovazione**



# Collaborative research

## R&I actions

Basic research, applied research, technology development and integration, and testing e validation on a small scale prototype in a laboratory or simulated environment

**Funding rate: 100%  
direct costs, 25%  
indirect costs**

## I actions

Prototyping, testing, demostrating, piloting, large - scale product validation and market replication

**Funding Rate: 70%  
direct costs(100%  
no profit); 25%  
indirect costs**

- a. Demostration or pilot
- b. Market replication





# Research and Innovation Action

**DESCRIPTION:** Action primarily consisting of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment. Projects may contain closely connected but limited demonstration or pilot activities aiming to show technical feasibility in a near to operational environment.

**FUNDING RATE:** maximum 100% (direct costs)



# Innovation Action

**DESCRIPTION:** Action primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

A **‘demonstration or pilot’** aims to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an operational (or near to operational) environment, whether industrial or otherwise, involving where appropriate a larger scale prototype or demonstrator.

A **‘market replication’** aims to support the first application/deployment in the market of an innovation that has already been demonstrated but not yet applied/deployed in the market due to market failures/barriers to uptake.

**FUNDING RATE:** maximum 70% - direct costs (except for non-profit legal entities, where a maximum rate of 100%)



# SME INSTRUMENT

*from idea to market*



## Concept & Feasibility Assessment

Idea to concept,  
risk assessment,  
technological & commercial  
feasibility

**Lump sum: 50.000 €**

**~ 6 mesi**



## Demonstration Market replication R&D

Demonstration, prototyping,  
testing , market replication,  
scaling up, miniaturisation,  
research

**0.5-2.5 M€ contributo CE**

**~ 12 to 24 mesi**



## Commercialisation

Quality label for  
successful projects,  
access to risk finance,  
indirect support

**Nessun finanziamento diretto**

Pre-Commercial  
Procurement

SME window EU  
financial facilities

**Idea**

Sostegno continuo per l'intera durata

**Mercato**

# THREE PHASE

## Phase 1: Concept & Feasibility Assessment



### Input:

Idea/Concept in "**Business Plan I**"  
(~ 10 pages)

### Main Activities:

Feasibility of concept  
Risk assessment  
IP regime  
Partner search  
Design study  
Pilot application

Output: elaborated "**Business plan II**"

Lump sum: around 50.000 €

~ 6 months

## Phase 2: R&D, dimostrazione, market replication



### Input:

"**Business plan II**" + "**Description of activities under Phase2**" (~ 30 pp.)

### Main Activities:

Development Prototyping  
Testing  
Piloting  
Miniaturisation  
Scaling-up  
Market replication

- Design & creation of innovative applications to foster the delivery of mobile public services
- New business model for SMEs in traditional sector to innovate

Output: investor-ready "**Business plan III**"

Output based payments:

1 to 2,5 M€ EU funding

~ 12 to 24 months

## Phase 3: commercialisation



### Input:

"**Business plan III**"

+

### Opportunities:

'**Quality label**' for successful Phase 1 & 2

Easier access to private finance

Support via networking, training, coaching, information, addressing i.a. IP management, knowledge sharing, dissemination

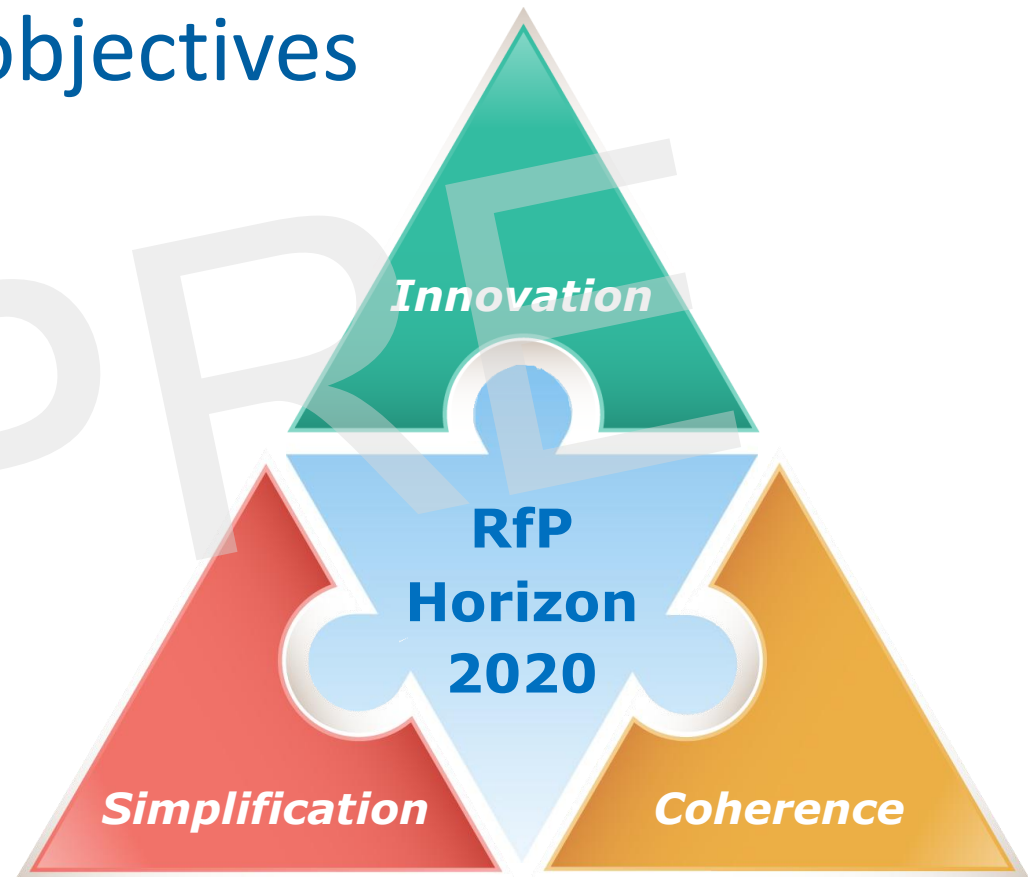
SME window in the EU financial facilities (debt facility and equity facility)

No direct funding



# Rules for participation: Three main objectives

- **Innovation,**
- **Simplification**
- **and Coherence**





# Single set of rules

- Covering all research and innovation programmes, initiatives and funding bodies (art. 185 and art. 187 initiatives, EIT,...), but flexible to accommodate specificities where needed (through delegated acts)
- Coherent with the rules contained in the Financial Regulation (FR), but containing "derogations"





# Conditions for participation

- **Minimum conditions**

- For standard collaborative actions
  - At least, 3 legal independent entities, each established in different MS/AC
- For SME Instrument, ERC, MSC, programme co-fund, CSA
  - 1 legal entity established in a MS/AC
- For Fast Track to Innovation
  - Max. 5 participants

- **Additional conditions**

- To be set out in the Work Programme (i.e. number of participants, type of participants, etc.)



# Eligibility for funding (general rule)

- Entities established in Member States or associated countries or third country identified in the WP
- Entities created under Union law
- International European interest organisation
- Other entities may receive funding if:
  - participation is essential or
  - such funding foreseen in bilateral arrangement between the Union and third country/international organisation





# Evaluation of proposals

- **Award criteria**
  - Excellence
    - Sole criterion for ERC frontier research actions
  - Impact
    - Higher weighting for innovation actions
  - Quality and efficiency in the implementation
- Details, Weightings and thresholds to be laid down in WP
- Evaluation to be carried out by independent expert
- Possibility of a 2 stage submission procedure



# Process to grant and signature of GA

A maximum Time To Grant of 8 months

**5 months**

for informing all applicants  
on scientific evaluation

**3 months**  
for signature of GA

No negotiation of the grant agreement in future,  
what is submitted will be evaluated. Potential  
participants must now be aware of this.



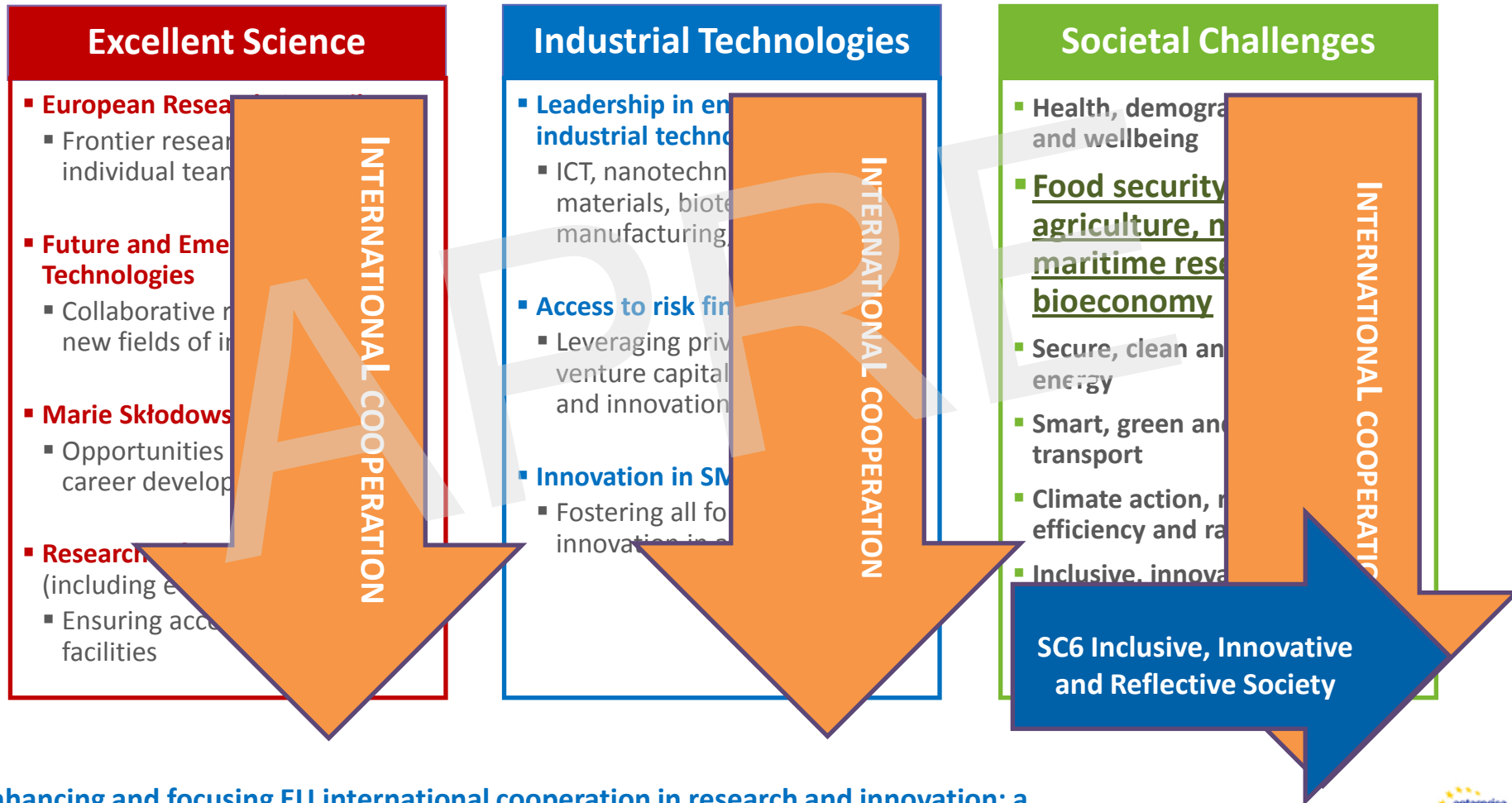
# The importance of the Work Programme

## Work Programme may:

- Restrict eligibility of participants from third countries (e.g. security concerns, reciprocity)
- Introduce additional eligibility criteria
  - Number of participants, type of participant and place of establishment
- Lay down further details for the application of the award criteria, and specify weighting and thresholds – see general annexes
- Specify third countries that are eligible for funding
- Specify the funding rate for an action
- Specify that lump sums or scale of unit costs can be used for an action (subject to prior separate Commission Decision)
- Identify beneficiaries for grants without a call for proposals



# H2020 and the international cooperation



\*'Enhancing and focusing EU international cooperation in research and innovation: a strategic approach' (COM(2012) 497)

<http://ec.europa.eu/research/iscp/index.cfm?pg=strategy>



# IC strategy toward H2020

**EU NEEDS TO ENGAGE MORE ACTIVELY AND STRATEGICALLY IN INTERNATIONAL COOPERATION:**

Three main **objectives**:

- Strengthen the Union's excellence and attractiveness in research and innovation as well as its industrial and economic competitiveness
- Tackle global societal challenges
- Support the Union's external policies



**COMBINE  
OPEN AND  
TARGETED  
ACTION**

**OPENNESS**

- Horizon 2020 open to participation from across the world
- Revision to the list of countries which receive automatic funding

**TARGETED  
ACTIONS**

- Thematic: identifying areas for international cooperation on the basis of the Union's policy agenda
- Differentiation by countries/regions to target partners for cooperation
- → *multi-annual roadmaps* for cooperation with key partners



# Which countries?

## Enlargement and neighbourhood countries, and EFTA

- Associated countries (Switzerland no more AC but third industrialised country)

## Industrialised countries and emerging economies

Emerging countries: **Brasil, Russia, India, China + Mexico**  
  
**+ industrialised (included in Annex A)**

## Developing countries

- LIST: general **ANNEX A WP**



# INTERNATIONAL COOPERATION IN H2020

## □ SOCIETAL CHALLENGES E INDUSTRIAL LEADERSHIP

- Projects with required or preferential 3<sup>rd</sup> country participation
- Joint calls, delegated management, ERA-NET

## □ EXCELLENT SCIENCE

- Marie Skłodowska-Curie Fellowships : strong international dimension
- Development of global research infrastructures
- ERC open to researchers from all over the world - research to be carried out mostly in Member States or Associated Countries

## □ Azioni cross-cutting dedicate – INCLUSIVE, INNOVATIVE AND REFLECTIVE SOCIETIES CHALLENGE (6° CHALLENGE)

- Support for to policy dialogue
- Networking and twinning activities
- Coordination of EU and MS/AC international cooperation policies
- Strengthening of European presence in international partner countries



# FUNDING

Horizon 2020 is open to participation from across the world

## **AUTOMATIC FUNDING:**

- Member States (including overseas departments and overseas territories)
- Associated Countries

Participants from other countries only funded in **EXCEPTIONAL** (included BRIC + Mexico) **CASES:**

- when provision is made in the call text
- bilateral agreement (e.g. Health challenge – NIH)
- when the Commission deems it essential (case by case assessment)





# TARGET ACTIONS: example

- Coordinated call:  
EU – BRAZIL (ICT)

## **EU-Brazil Research and Development Cooperation in Advanced Cyber Infrastructure**

*H2020 – EUB – 2015*

This topic is a major element for the implementation of EU-Brazil cooperation in the area of future networks and e-infrastructures. It sets the basis for further progress in three distinctive themes, with the objective of developing common positions, standards and interoperable systems for cloud computing, HPC and experimentation facilities for internet technologies. It aims as well at reinforcing the mechanisms for an efficient definition and implementation of joint R&D actions. Proposals with balanced participation of EU and Brazilian partners should make a substantial contribution to the identified themes indicating the benefits of a joint effort.

Proposals are invited against the following topics:

**EUB 1 – 2015: Cloud Computing, including security aspects**



# TARGET ACTIONS: examples

- Topic with request of international cooperation
- SFS -1-2014-2015: Sustainable terrestrial livestock production

## B. [2014] Tackling losses from terrestrial animal diseases

The goal is to better understand the interaction between the immune system of swine, poultry and ruminants and their specific pathogens, in particular pathogens associated with high production losses and to develop innovative and multivalent vaccines taking into account the individual variability in vaccine responsiveness and different developmental stages. Both the use of current and new vaccine vectors (including DNA & DIVA vaccines) could be foreseen together with novel and easy-to-use delivery systems and efficient adjuvants with the aim of fostering an earlier onset of protection and a longer duration of immunity. New biomarkers and phenotypes would be valuable to help breeding strategies for increased disease resistance.

Proposals should develop at least two vaccines at the demonstration level and address at least poultry and/or swine, and/or ruminants. Involvement of the animal pharmaceutical industry is expected to translate the finding into marketable products. Significant SME involvement should be ensured. In line with the objectives of the EU strategy for international cooperation in research and innovation and in particular with the implementation of the EU-China dialogue, proposals are encouraged to include third country participants, especially those established in China<sup>14</sup>.

CHINA



# RESEARCH PARTICIPANT PORTAL

<http://ec.europa.eu/research/participants/portal/page/home>

The screenshot displays the Research Participant Portal interface. The top navigation bar includes links for (A-Z), Sitemap, About this site, Contact, Legal Notice, and English. The main header features the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". Below this, a breadcrumb trail shows "Research & Innovation > Participant Portal > Calls". The main content area is titled "Horizon 2020 Funding" and "Starting from 1/1/2014". It lists EU programmes: "2014-2020 Horizon 2020 - research and innovation framework programme" and "2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)". It also provides instructions for non-registered and registered users. A sidebar on the left contains icons for "WHAT'S NEW?", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "WORK AS AN EXPERT", "MY PERSONAL AREA", and "INFORMATION AND SUPPORT". The main content area lists various funding opportunities, including "Excellent Science" and "Industrial Leadership". A filter section on the right allows users to filter by "Type" (Proposal, Tender) and "Status" (Open, Closed, Forthcoming). A "Sort by" section at the bottom allows sorting by Title, Call Id, Publication Date, or Deadline Date. The bottom of the page features a row of funding opportunities, each with a title, call number, and publication/deadline dates.

ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html

(A-Z) Sitemap About this site Contact Legal Notice English

RESEARCH & INNOVATION  
Participant Portal

Research & Innovation > Participant Portal > Calls

FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Horizon 2020 Funding  
Starting from 1/1/2014

On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:

- 2014-2020 Horizon 2020 - research and innovation framework programme
- 2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)

**Non-registered users**

- search for funding
- read the funding guide & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

**Registered users**

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle

WHAT'S NEW? FUNDING OPPORTUNITIES HOW TO PARTICIPATE WORK AS AN EXPERT MY PERSONAL AREA INFORMATION AND SUPPORT

RESEARCH ON EUROPA CORDIS OLAF

© European Communities

Excellent Science

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

**Industrial Leadership**

- ☒ Leadership in enabling and industrial technologies (LEIT)
- ☐ Access to risk finance
- ☐ Innovation in SMEs

Filter a call FILTER

Type

- ☒ Proposal
- ☐ Tender

Status

- ☒ Open
- ☐ Closed
- ☐ Forthcoming

Sort by

- ☐ Title
- ☐ Call Id
- ☒ Publication Date
- ☐ Deadline Date

Industrial Leadership  
BIOTECHNOLOGY  
H2020-LEIT-BIO-2015-1  
Pub.Date: 11/12/2013 Deadline: 24/02/2015

Industrial Leadership  
BIOTECHNOLOGY  
H2020-LEIT-BIO-2014-1  
Pub.Date: 11/12/2013 Deadline: 12/03/2014

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-ERA-NET-2015  
Pub.Date: 11/12/2013 Deadline: 26/03/2015

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-CSA-2015  
Pub.Date: 11/12/2013 Deadline: 26/03/2015

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-PILOTS-2015  
Pub.Date: 11/12/2013 Deadline: 26/03/2015

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-GV-2014  
Pub.Date: 11/12/2013 Deadline: 07/10/2014

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-CSA-2014  
Pub.Date: 11/12/2013 Deadline: 26/03/2015

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-2014-two-stage  
Pub.Date: 11/12/2013 Deadline: 26/03/2015

Industrial Leadership  
Call for Nanotechnologies, Advanced Materials and Production  
H2020-NMP-2015-two-stage  
Pub.Date: 11/12/2013 Deadline: 26/03/2015



# Useful documents

- Work Programme (introduction e specific WP for activities)
- General Annexes (A-K)
- Template (per type of actions)
- Regulation (1. Horizon 2020 - Regulation of Establishment; 2. Euratom Horizon 2020 - Regulation of Establishment; 3. Rules for participation; 4 Specific programme; 5. European institute of Innovation and Technology (EIT))
- Annotated grant agreement



# Where can you find documents?

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Horizon 2020  
Calls  
Search Topics  
Call Updates

FP7 & CIP Programmes  
Calls  
Call Updates

COSME  
Other Funding Opportunities

WATER INNOVATION: BOOSTING ITS VALUE FOR

H2020-WATER-2015-two-stage

Publication date 2013-12-11 Deadline Date 2014-10-11  
Stage 2 2015-03-11  
Main Pillar Societal Challenges  
Budget €75,000,000  
Status Open

Call description Call documents Get support Subscribe to

Download all documents (EN only, and the additional documents)

Legal basis - Framework Programme H2020 en  
Legal basis - Rules for Participation en  
Legal basis - Specific Programme H2020 en  
WP H2020 - 1. Introduction en  
WP H2020 - 12. Climate action, environment, resource efficiency en  
WP H2020 - 18. General Annexes en

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RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Reference Documents

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

Reference Documents

Beneficiary Register  
Financial Viability Self-Check  
SME Participation

This page includes all the H2020 & FP7 reference documents starting with legal documents and the Commission work programmes for research and innovation up to model grant agreements and guides for specific actions and horizontal issues. The documents are grouped by categories. To access a document:

- Click on a folder
- Click on ARROW to have more information about the document and its available translations

You can search a specific H2020 or FP7 document on the Europa Search service.

H2020 FP7

Legal basis  
Framework programmes (EC-Euratom)  
Horizon 2020 - Regulation of Establishment

Short description: Regulation of the European Parliament and Council establishing Horizon 2020  
Published: 2013-12-20  
Translations: BG CS DA DE EL EN ES ET FI FR HR HU IT LT LV MT NL PL PT RO SK SL SV

Euratom Horizon 2020 - Regulation of Establishment

Short description: Council Regulation on the research and training programme of the European Atomic Energy Community (2014-18) complementing Horizon 2020  
Published: 2013-12-20  
Translations: BG CS DA DE EL EN ES ET FI FR HR HU IT LT LV



# STEP of Submission – single or double stage

## Submission IN ONE STAGE

- R&A/IA, CSA

### AWARD CRITERIA:

- Excellence
- Impact
- Implementation

- Pages Limits :  
70 (R&IA), 50 (CSA)

## Submission IN DOUBLE STAGE

- R&IA, IA

### AWARD CRITERIA:

- Excellence
- Impact (partially)
- Pages limits:  
15 (generally) including cover page



# PART B

## COVER PAGE

### 1. EXCELLENCE

- 1.1 Objectives\*
- 1.2 Relation to the work programme \*
- 1.3 Concept and approach\*
- 1.4 Ambition\*

### 2. IMPACT

- 2.1 Expected impacts \*
- 2.2 Measures to maximise impact

a) Dissemination and exploitation of results

b) Communication activities

### 3. IMPLEMENTATION

- 3.1 Work plan — Work packages, deliverables and milestones
- 3.2 Management structure and procedures
- 3.3 Consortium as a whole
- 3.4 Resources to be committed

### 4. Members of the consortium

### 5. Ethics and Security





Focus

## SOCIETAL CHALLENGE 2

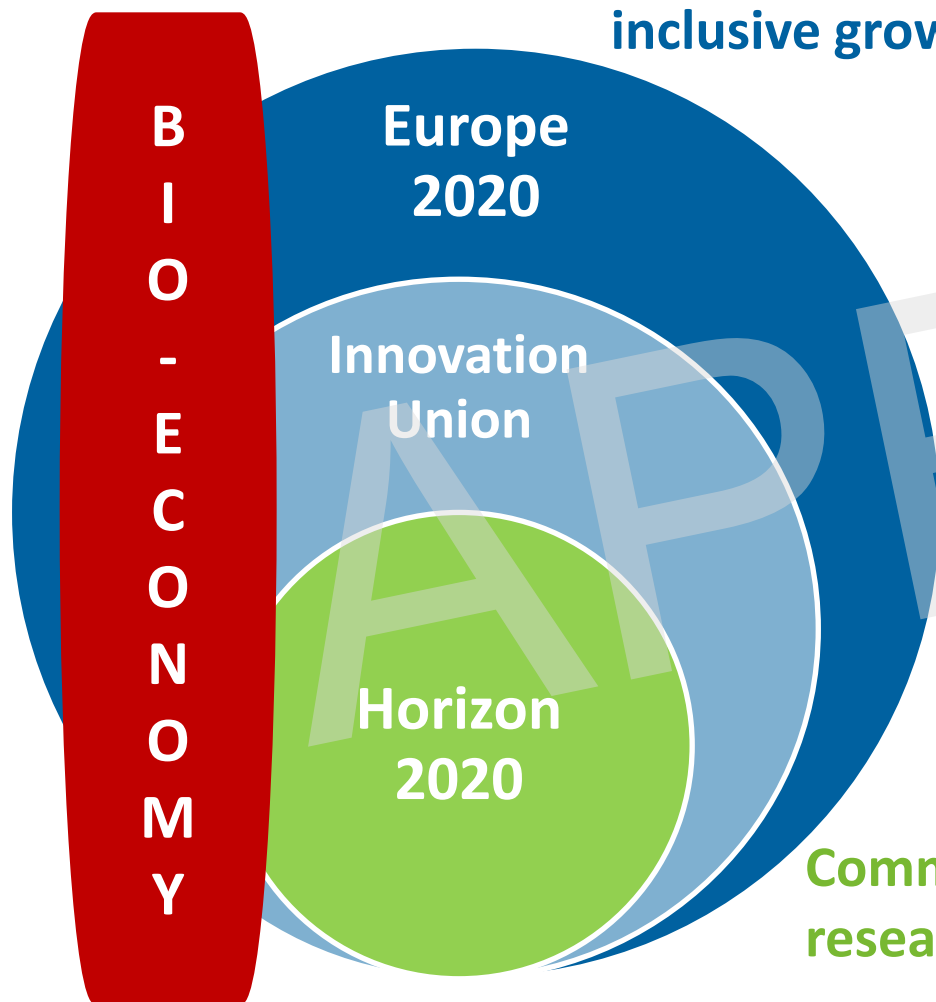
*Food Security, Sustainable Agriculture and Forestry, Marine and Maritime and Inland Water Research and the Bioeconomy*







Strategy for smart, sustainable and  
inclusive growth.



Flagship initiative on Research and  
Innovation

Common Strategic framework on  
research and innovation (2014- 2020)

# La Innovation Union/1



1. Training  
research

**Food4Future**

2. University

3. Developing  
new curricula

4. ERA  
Framework

Involvement of  
IEs in R&I

8. Forum on  
Forward Looking  
Activities

**9. EIT to expand  
its activities**

**6. Programmes  
focusing on  
EU2020**

EU Patent

**Horizon 2020**

15. Screening of  
key regulat  
framework

16. Modernise

commercial and

18. ECO-  
innovation action

19. European  
Design Board

20. Open access

21. Knowledge  
transfer

**Agricultural Productivity &  
Sustainability**

**29. European  
Innovation  
Partnerships**

25. Focus on  
Innovation in the  
next Structural  
Funds

26. European  
Social innovation  
pilot

27. Research  
programmes on  
public sector and  
social innovation

28. Partners  
consultation on  
knowledge  
economy

32. International  
agreements on  
research  
infrastructures

33. MS to carry  
out self  
assessments

34. New indicator  
for fast-growing  
companies and  
monitoring



# A Bioeconomy for Europe

Using resources from land and sea  
for a post-petroleum economy

# Struttura del programma

## Excellent Science

- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies**
  - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
  - Opportunities for training and career development
- **Research infrastructures** (including e-infrastructure)
  - Ensuring access to world-class facilities

## Industrial Technologies

- **Leadership in enabling and industrial technologies**
  - ICT, nanotechnologies, materials, biotechnology, manufacturing, space
- **Access to risk finance**
  - Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs**
  - Fostering all forms of innovation in all types of SMEs

## Societal Challenges

- Health, demographic change and wellbeing
- **Food security, sustainable agriculture, marine and maritime research & the bioeconomy**
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)



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## BOTTOM UP RESEARCH

ERC – frontiera  
MSCA - mobilità  
FET – high risk  
SME instrument

## CONTRIBUTI LEIT – Biotechnology

SC1 - Health, demographic change  
and well being  
SC3 - Secure, clean and efficient  
energy  
SC5 - Climate action, resource  
efficiency and raw materials  
(waste)

### Excellent Science

- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies**
  - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
  - Opportunities for training and career development
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- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)

10

**SOCIETAL CHALLENGE 2**  
**Food Security,  
Sustainable Agriculture and  
Forestry,  
Marine and Maritime and  
Inland Water Research and  
the bioeconomy**

PPP  
  
B  
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I  
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E

	Compromise % 27.06.13	Million € ( current prices)
<b>I. Excellent Science, of which:</b>	31,73%	24.441
<b>1. ERC</b>	17,00%	13.095
<b>2. FET</b>	3,50%	2.696
<b>3. MS Curie Actions</b>	8,00%	6.162
<b>4. Research Infrastructures</b>	3,23%	2.488
<b>II. Industrial Leadership, of which:</b>	22,09%	17.016
Leadership in Enabling and Industrial Technologies	17,60%	13.557
Access to Risk Finance	3,69%	2.842
Innovation in SME's	0,80%	616
<b>II.I Societal Challenges, of which:</b>	38,53%	29.679
Health, demographic change and well being	9,70%	7.472
Food security, sustainable agriculture, marine and maritime research & the bio economy	5,00%	<b>3.851</b>
Secure, clean and efficient energy	7,70%	5.931
Smart, green and integrated transport	8,23%	6.339
Climate action, resource efficiency and raw materials	4,00%	3.081
Europe in a changing world – Inclusive, innovative and reflective society	1,70%	1.309
Secure societies – Protecting freedom and security of Europe and its citizens	2,20%	1.695
<b>Spreading Excellence and Widening Participation</b>	1,06%	816
<b>Science with and for society</b>	0,60%	462
<b>European Institute of Innovation and Technology - EIT</b>	3,52%	2.711
<b>JRC Non-nuclear</b>	2,47%	1.903
<b>Total EU REGULATION</b>	100,00%	77.028





# SC2 - European Bioeconomy Challenges:

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



making the best of our biological resources in a sustainable way



**OBjective:** to contribute to securing sufficient supplies of safe, healthy and high quality food and other bio-based products, by developing productive, sustainable and resource-efficient primary production systems, fostering related ecosystem services and the recovery of biological diversity, alongside competitive and low carbon supply chains. This will accelerate the transition to a sustainable European bioeconomy, bridging the gap between new technologies and their implementation.



# SC2 - European Bioeconomy Challenges:

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

**FOCUS AREA**

**2014 -2015:**



Sustainable  
Food  
Security

Blue Growth



Innovative ,  
Sustainable  
and Inclusive  
Bioeconomy





## SC2, WP 2014-2015: 3 main calls

### Sustainable Food Security

- Sustainable food production systems
- Safe food and healthy diets and sustainable consumption
- Global drivers of food security

### Blue Growth

- Sustainably exploiting the diversity of marine life
- New offshore challenges
- Ocean observation technologies/systems
- Horizontal aspects, socio-economic sciences, engagement with society,...

### Innovative, Sustainable and Inclusive Bioeconomy

- Sustainable agriculture and forestry
- Sustainable and competitive bio-based industries
- Cross-cutting actions covering all the activities

# DEADLINES

## Call 1 – SUSTAINABLE FOOD SECURITY

SFS-6-2014	26/06/2014 at 17.00.00 Brussels time	
SFS-1A-2014 SFS-1B-2014 SFS-2A-2014 SFS-3A-2014 SFS-3B-2014 SFS-4-2014 SFS-7A-2014 SFS-9-2014 SFS-10A-2014 SFS-11A-2014 SFS-12-2014 SFS-14A-2014 SFS-15-2014 SFS-17-2014 SFS-19-2014	First stage 12/03/2014 at 17.00.00 Brussels time	Second stage 26/06/2014 at 17.00.00 Brussels time
SFS-14B-2015	[11/06/2015 at 17.00.00 Brussels time]	
SFS-1C-2015 SFS-2B-2015 SFS-5-2015 SFS-7B-2015 SFS-10B-2015 SFS-11B-2015 SFS-13-2015 SFS-16-2015 SFS-18-2015 SFS-20-2015	First stage [24/02/2015 at 17.00.00 Brussels time]	Second stage [11/06/2015 at 17.00.00 Brussels time]

SFS-8- 2014/2015 – Open call cut-off dates – Open from	Phase 1 18/06/2014 24/09/2014 17/12/2014	Phase 2 09/10/2014 17/12/2014	Phase 1 [18/03/2015 17/06/2015 17/09/2015	Phase 2 [18/03/2015 17/06/2015 17/09/2015
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# DEADLINES

## CALL 2: BLUE GROWTH

BG-5-2014 BG-11-2014 BG-13-2014 BG-14-2014 BG-15-2014	26/06/2014 at 17.00.00 Brussels time	
BG-3-2014 BG-4-2014 BG-6-2014 BG-8-2014 BG-9-2014 BG-10-2014	First stage 12/03/2014 at 17.00.00 Brussels time	Second stage 26/06/2014 at 17.00.00 Brussels time
BG-16-2015	[11/06/2015 at 17.00.00 Brussels time]	
BG-1-2015 BG-2-2015 BG-7-2015	First stage [24/02/2015 at 17.00.00 Brussels time]	Second stage [11/06/2015 at 17.00.00 Brussels time]

BG-12- 2014/2015 – Open call cut-off dates – Open from 01/03/2014 for phase 1 and phase 2 <sup>80</sup>	Phase 1	Phase 2	Phase 1	Phase 2
	18/06/2014	09/10/2014	[18/03/2015	[18/03/2015
	24/09/2014	17/12/2014	17/06/2015	17/06/2015
	17/12/2014		17/09/2015	17/09/2015
			16/12/2015]	16/12/2015]



# DEADLINES

## CALL 3: INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY

ISIB-2-2014 ISIB-7-2014 ISIB-8A-2014 ISIB-8B-2014 ISIB-9-2014 ISIB-10-2014 ISIB-11-2014 ISIB-12A-2014	26/06/2014 at 17.00.00 Brussels time	
ISIB-1-2014 ISIB-4A-2014 ISIB-5-2014	First stage 12/03/2014 at 17.00.00 Brussels time	Second stage 26/06/2014 at 17.00.00 Brussels time
ISIB-2-2015 ISIB-12B-2015 ISIB-12C-2015 ISIB-12D-2015 ISIB-12E-2015 ISIB-12F-2015	[11/06/2015 at 17.00.00 Brussels time]	
ISIB-3-2015 ISIB-4B-2015 ISIB-6-2015	First stage [24/02/2015 at 17.00.00 Brussels time]	Second stage [11/06/2015 at 17.00.00 Brussels time]



# GRAZIE PER L'ATTENZIONE!

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