



Struttura di Horizon 2020

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Project Manager

Pisa, 18 Dicembre 2014

www.apre.it

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HORIZON 2020

in brief



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

The background of the slide is a deep blue gradient with a glowing horizon line. A small globe of the Earth is positioned at the center of the horizon, with light rays emanating from behind it. The text 'HORIZON 2020' is written in a white, sans-serif font across the horizon line.

Initial Commission proposal for a €80 billion research and innovation funding programme (2014-2020); now just over €70 billion (79 billion in current prices including inflation)

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

Europe 2020

Digital agenda for Europe Innovation Union Youth on the move Economic reform for Europe Industrial policy for the globalisation era Agenda for new skills and jobs Research platform against poverty

**Creating the right framework
conditions for growth**

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

GROWTH

JOBS

**Investing in science & innovation
to make the economy grow**





Europa 2020 - 5 main objectives

EMPLOYMENT

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

RESEARCH AND INNOVATION

3% del PIL dei Paesi EU investito in R&D

CLIMATE/ENERGY

A reduction of CO2 emissions by 20%

A share of renewable energies up to 20%

An increase in energy efficiency by 20%

EDUCATION/TRAINING

The share of early school leavers should be under 10%

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

POVERTY

20 million fewer people should be at risk of poverty



7 “Flagship Initiatives”

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

Innovation Union

**34 action points
to make it possible**

**Developing
a European
knowledge market
for patents &
licensing**

**Modernising
the EU's
public
procurement**

**Passport
for venture
capital**



Innovation Union- THE COMMITMENTS

- | | | | | | | |
|---|--|---|--|---|--|--|
| 1. Training researchers | 2. University ranking system | 3. Developing new curricula | 4. ERA Framework | 5. European Research infrastructures | 6. Programmes focusing on EU2020 | 7. Involvement of SMEs in R&I |
| 8. Forum on Forward Looking Activities | 9. EIT to expand its activities | 10. New financial instruments for private finance | 11. Free Venture Capital funds | 12. Cross-border matching of innovative firms | 13. Review of State aid R&D&I | 14. EU Patent |
| 15. Screening of key regulatory frameworks | 16. Modernise standard-setting | 17. Pre-commercial and public procurements | 18. Eco-innovation action plan | 19. European Design Board | 20. Open access | 21. Knowledge transfer |
| 22. European market for patents and licensing | 23. Safeguard of IPRs | 24. Smart Specialisation | 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 |
| 29. European Innovation Partnerships | 30. Policies for researchers to reside in Europe | 31. Scientific cooperation with third countries | 32. International agreements on research infrastructures | 33. MS to carry out self assessments | 34. New indicator for fast-growing companies and monitoring | |

HORIZON 2020

Coupling R&I

Challenge based

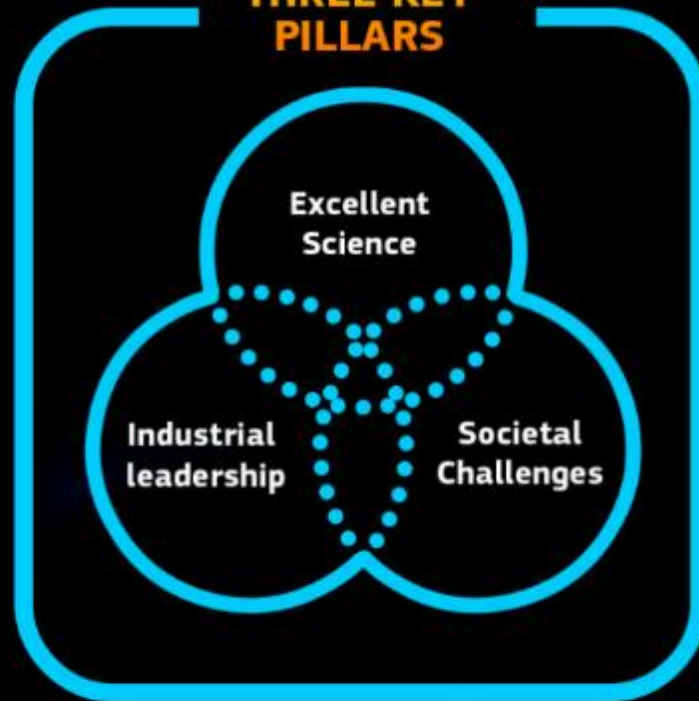
A simpler programme

**Horizon 2020 is designed to help
bring more ideas to the market**

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

THREE KEY PILLARS



H2020 Structure

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, environment 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)

A large teal-colored circle is centered on a black background. Inside the circle, the text "Supporting our excellent science base" is written in white, bold, sans-serif font, arranged in three lines.

**Supporting
our excellent
science base**

Excellent Science

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Excellent science

Why:

- 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

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€13 095
million**



**Supporting world leading
scientists in frontier research**

Research and
Innovation



Fundamental activity

Providing attractive, long-term funding to **support excellent investigators** and **their research teams** to pursue ground-breaking, high-gain/ high-risk research.

Research funded by the ERC is expected to lead to advances at the frontiers of knowledge and to set a clear and inspirational target for frontier research across Europe.



ERC Funding Schemes

Starting Grants

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

Prior to 1st January 2015

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

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

NO SYNERGY GRANTS FOR THE YEARS 2014-2015



Main features

- **Scientific excellence** is the sole criterion
- Applications can be made in any field of research
- Independent researchers of any age and career stage
- **Principal Investigators** from anywhere in the world
- The ERC frontier research grants aim to empower individual researchers and provide the best settings to foster their creativity
- **Host institutions** must provide appropriate conditions for the Principal Investigator to independently direct the research and manage its funding



Eligible Principal Investigator

- any age and nationality and may reside in any country in the world at the time of the application.
- Principal Investigators funded through the ERC frontier research grants shall spend a **minimum percentage** of their total working time in an **EU Member State or Associated Country¹** and a **minimum percentage** of their total working time on the **ERC project**

¹ http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cp/h2020-hi-list-ac_en.pdf?_58655886



Eligible Host Institution

- The host institution (Applicant Legal Entity) must engage the Principal Investigator for at least the duration of the project
- It must either be established in an EU Member State or Associated Country
- This does not exclude **field work** or other research activities in cases where these must necessarily be conducted outside the EU or the Associated Countries in order to achieve the scientific objectives of the project/activity



THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€6 162
million**



**Providing training & career
development opportunities**

Research and
Innovation



Marie Skłodowska-Curie Actions (MSCA)

FP7

H2020

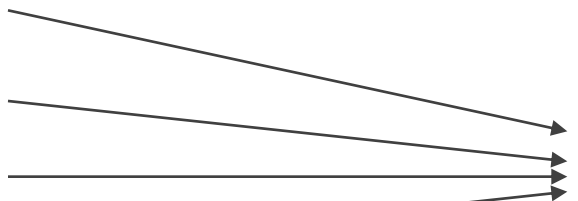
ITN
 (including EID and IDP)



**Innovative
 Training
 Networks (ITN)**

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

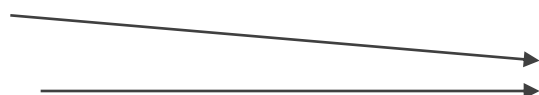
IEF
 IOF
 IIF
 CIG



**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



Mobility rule

At the time of the relevant deadline for submission of proposals, or recruitment/secondment by the host organisation, depending on the action, **researchers shall not have resided or carried out their main activity (work , studies, etc) in the country of their host organisation for more than 12 months in the 3 years immediately prior to the reference date.**



Participants

Academic sector

Academic sector includes the following organisation: universities (public and private), higher education institutions (public and private), non-profit research institutions (public and private), research foundations, research institutions associated to foundations and international European interest organisations.

Non-academic sector

Non-academic sector includes any socio-economic actor not included in the academic sector and fulfilling the requirements of the Horizon 2020 rules for participation



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THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€2 696
million**

**Development of future &
emerging technologies**

Research and
Innovation



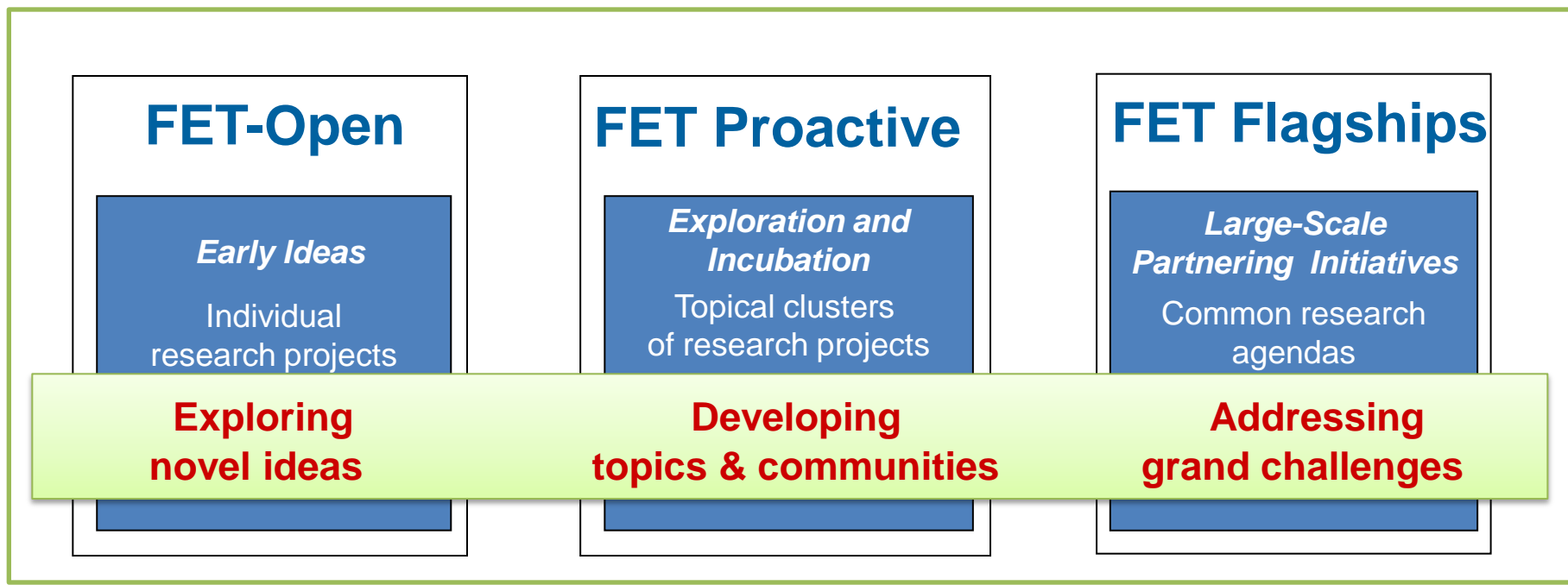
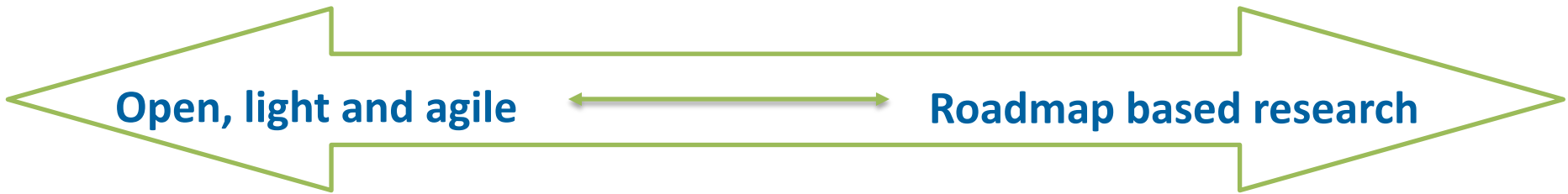
Future and Emerging Technologies (FET)

Pathfinding Europe's technological future

“Future and emerging technologies shall support collaborative research in order to extend Europe’s capacity for advanced and paradigm-changing innovation.

It shall foster [1] scientific collaboration across disciplines on radically new, high-risk ideas and [2] accelerate the development of the most promising emerging areas of science and technology, as well as [3] the Union wide structuring of the corresponding scientific communities”

FET Funding Schemes



FET Open: 2014-15

Call FET-Open : novel ideas for radically new technologies

Open is open: all technologies, no thematic restriction

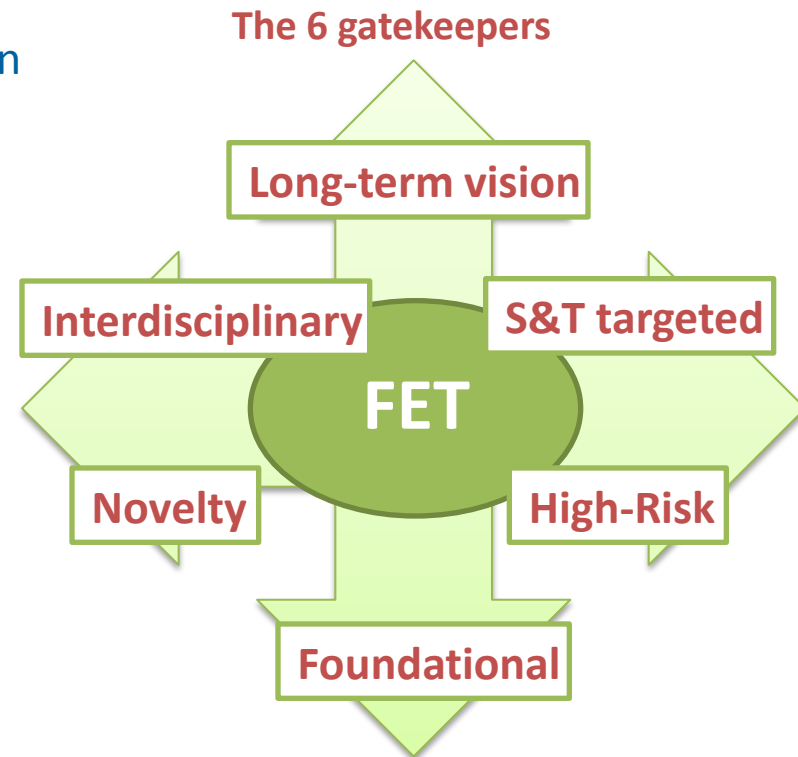
The scope of FET Open research is defined by 6 gatekeepers

- Bottom-up, but targeted - not blue sky research
- Collaborative research

Total budget: 160M€ in 2014-15

Instruments

- Research and Innovation Action - 154M€
- Coordination and Support actions (CSA) – 6M€



FET Proactive 2014-2015

A set of thematic initiatives on promising emerging research themes.

Structured around 9 candidate topics

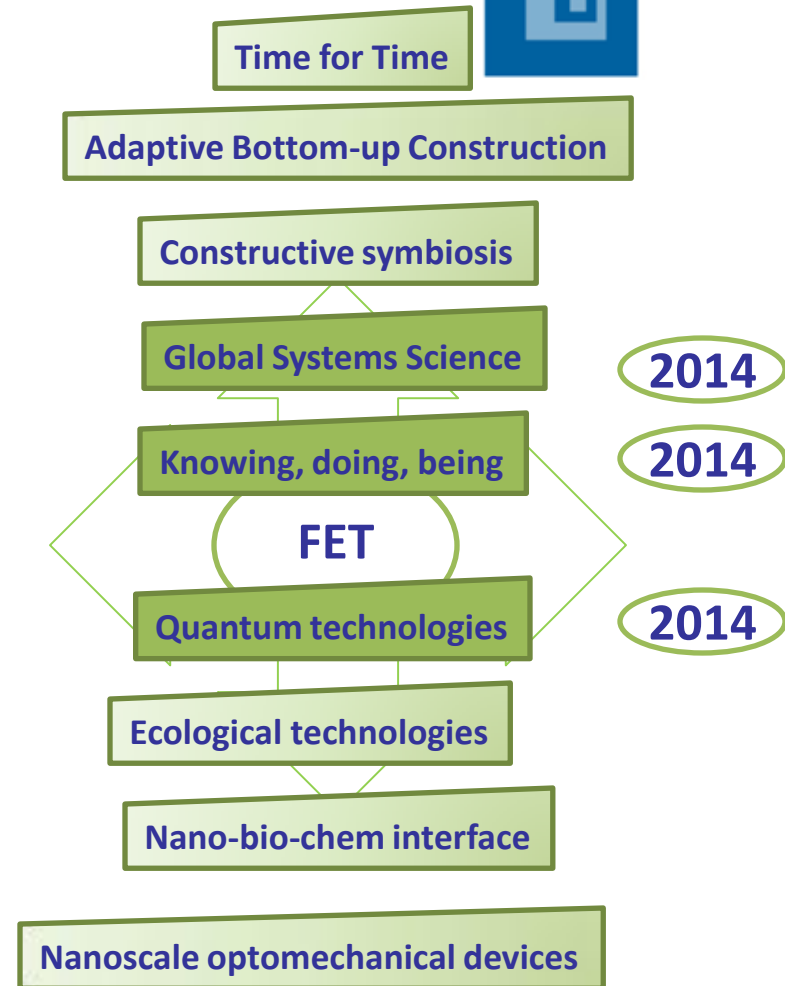
(defined through over 1927 contributions)

- Collaborative research
- *Fixed deadlines calls*
- *15 page proposals*
- *1 step submission, 1 stage evaluation*
- *3 evaluation criteria*

Total budget: 35M€ in WP 2014-15

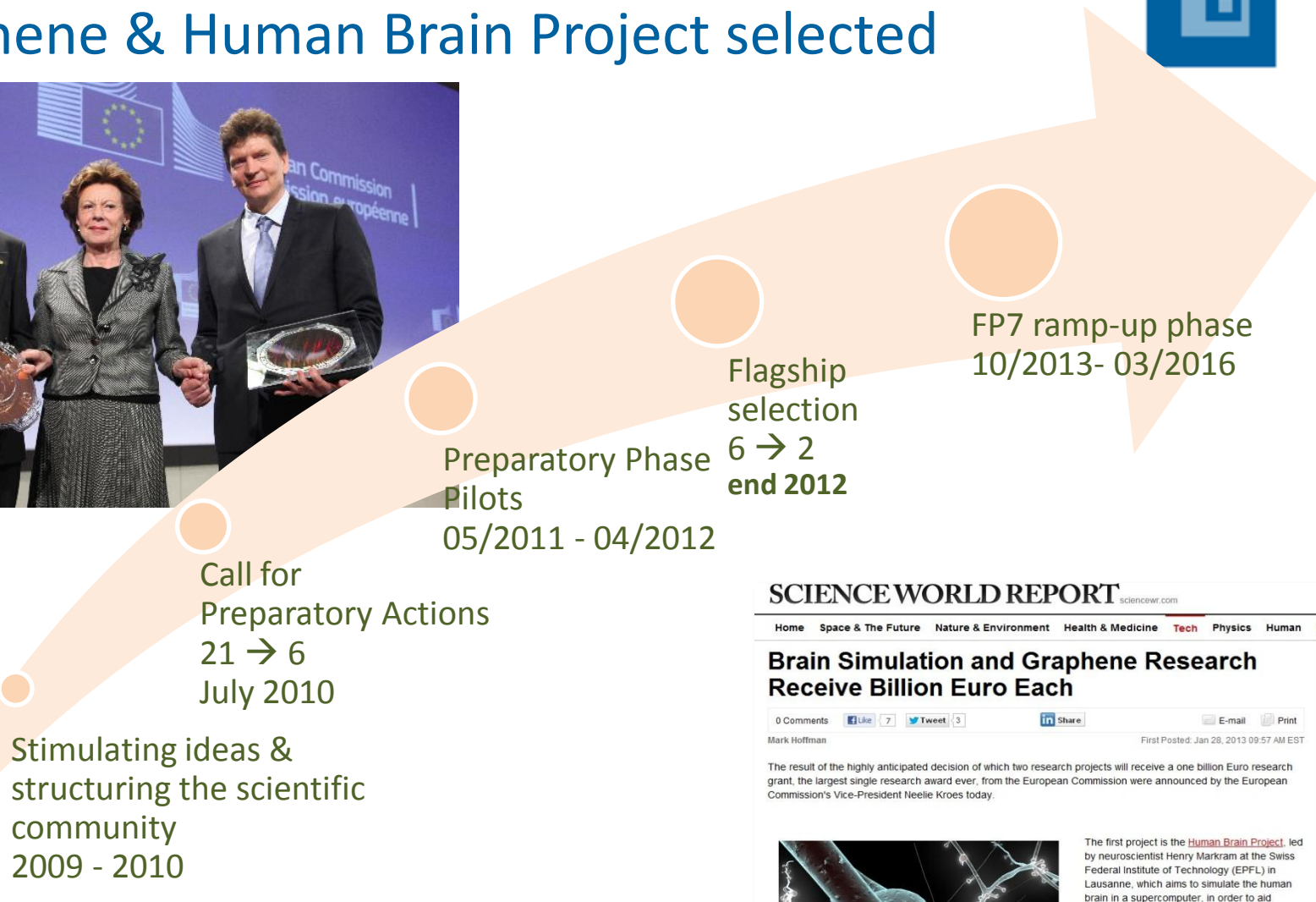
Instrument

- Research and Innovation Actions (100% funding)



FET Flagships: 2014-2015

Graphene & Human Brain Project selected



Stimulating ideas & structuring the scientific community
 2009 - 2010

Call for Preparatory Actions
 21 → 6
 July 2010

Preparatory Phase Pilots
 05/2011 - 04/2012

Flagship selection
 6 → 2
 end 2012

FP7 ramp-up phase
 10/2013- 03/2016

SCIENCE WORLD REPORT
sciencwr.com

Home Space & The Future Nature & Environment Health & Medicine **Tech** Physics Human V

Brain Simulation and Graphene Research Receive Billion Euro Each

0 Comments Like 7 Tweet 3 Share E-mail Print


Mark Hoffman First Posted: Jan 28, 2013 09:57 AM EST

The result of the highly anticipated decision of which two research projects will receive a one billion Euro research grant, the largest single research award ever, from the European Commission were announced by the European Commission's Vice-President Neelie Kroes today.

The first project is the Human Brain Project, led by neuroscientist Henry Markram at the Swiss Federal Institute of Technology (EPFL) in Lausanne, which aims to simulate the human brain in a supercomputer, in order to aid medical advancement in brain disorders.

Like Us on **Facebook** Like

The second, called Graphene Project, is led by theoretical physicist Jari Kinaret at Chalmers University of Technology in Gothenburg, Sweden. It's goal is to develop the awesome



THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€2 488
million**

EU research infrastructures

Research and
Innovation



Research Infrastructures

Three main objectives

- Developing the European research infrastructures for 2020 and beyond
- Fostering the innovation potential of research infrastructures and their human capital
- Reinforcing the European research infrastructure policy and international co-operation

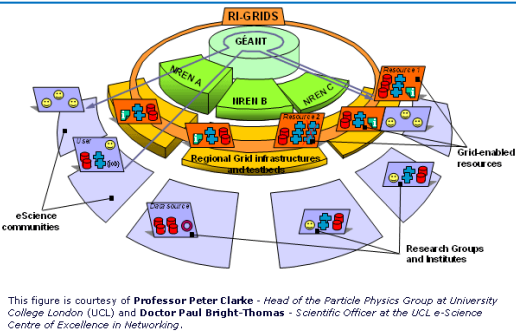




Definition of Research Infrastructures

Any facilities and resources that provide to the scientific community essential services needed for the performance of leading edge research in both an academic and/or industrial environment.

Research Infrastructures should be open to researchers, to the scientific community and to the Industry and cover the whole range of scientific and technological fields.



GEANT grid
 Mouse straine
 Alfred Wegener Institute for
 Polar and Marine Research Vessel
 Mobile facilities
 for in situ non-invasive measurements
 James Clerk Maxwell Telescope
 British Museums





What the RIs Programme does **NOT** cover

- Collaborative Research
- Purchasing/modernizing RIs
- Building RIs



★ Member States are in charge of building new RIs



What the RIs Programme does cover

1. Developing the European RIs for 2020 and beyond
 - Developing **new world-class RIs** (1st Call);
 - **Integrating and opening national and regional RIs of European interest** (2nd Call);
 - Development, deployment and operation of ICT based **e-infrastructures** (3rd Call).

2. Fostering the **innovation** potential of RIs and their **human resources**
3. Reinforcing European RI **policy** and **international cooperation**

} 4th Call
 CSA



Synchrotron SOLEIL - IPANEMA

A large teal-colored circle with a thick border is centered on a black background. Inside the circle, the text "Building Industrial Leadership in Europe" is written in a bold, white, sans-serif font, arranged in four lines.

**Building
Industrial
Leadership
in Europe**



Struttura del programma

Excellent Science

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Industrial Technologies

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Societal Challenges

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Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)





Industrial leadership

Why:

- **Strategic investments in Key Enabling Technologies** (e.g. advanced manufacturing, biotechnology, micro/nanoelectronics, photonics,) underpin innovation across existing and emerging sectors
- **Attracting more private investment** in research and innovation
- **More innovative SMEs** (small and medium-sized enterprises) to create growth and jobs

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€13 557
million**



**Leadership in enabling &
industrial technologies (LEITs)**

CLUSTERS - INDUSTRIAL HIGH-TECH - RE-INDUSTRIALISING THE EU - HIGH-QUALITY JOBS - FROM LAB

Research and
Innovation

Key Enabling Technologies (KETs)

Photonics

Manufacturing

Biotechnology

Advanced Materials

Micro/Nanoelectronics

Nanotechnologies

- Knowledge intensive
- Associated with **high R&D intensity, rapid innovation cycles, high capital expenditure** and **highly skilled employment**.
- Enable **process, goods and service** innovation throughout the economy and are of **systemic relevance** [underpin innovation **across existing and emerging sectors**].
- 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

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

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€2 842
million**

RISK FINANCE

Cooperation with
*European Investment Bank &
European Investment Fund*

Debt & Equity Financing

VENTURE CAPITAL

Access to risk finance

INVESTMENT-READY – BANKABILITY – AFFORDABLE FINANCE – SMES-MIDCAPS – GROWTH-EXPANSION

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

20% of the total budget for societal challenges and LEITs to go to SMEs

SME Instrument (€3 000 million)

Strengthening participation of innovative SMEs

Research and Innovation

A large teal-colored circle with a thick border is centered on a black background. Inside the circle, the text "Tackling societal challenges for a better society" is written in white, bold, sans-serif font, arranged in five lines.

**Tackling
societal
challenges
for a better
society**

Struttura del programma

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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)



Societal challenges

Why:

- 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

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€7 472
million**



Better health for all

EVENTING DISEASE - BETTER DIAGNOSTICS AND TREATMENTS - AGEING WELL - SUSTAINABLE HEAL

Research and
Innovation

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€3 851
million**



**Making the best of our biological resources
for food security and sustainable growth**

BLUE GROWTH - BIOECONOMY - GREEN GROWTH - FOOD SECURITY - RENEWABLE BIOLOGICAL RE

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€5 931
million**

**Clean, safe,
reliable &
affordable
energy**

**Secure, clean &
efficient energy**

Research and
Innovation

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€6 339
million**



Smart, Green & Integrated Transport

ENT TRANSPORT - NEXT GENERATION OF INFRASTRUCTURES - BETTER MOBILITY - MOBILITY FOR G

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€3 081
million**



**Climate action, environment,
resource efficiency & raw materials**

MARKET - SUSTAINABLE SUPPLY OF RAW MATERIALS - LOW CARBON ECONOMY - MANAGING WATER RESOURCES

Research and
Innovation

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€1 310
million**

**Inclusive, innovative
& reflective societies**

LE AND INCLUSIVE GROWTH - CONTRIBUTING TO THE EUROPEAN RESEARCH AREA - STUDYING NEW

Research and
Innovation

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€1 695
million**

**Cyber
security**



**Natural
hazards**

**Safeguarding
a secure society**

FACE BUILDING - COMPETITIVENESS - FIRST RESPONDERS - FIGHT AGAINST CRIME AND TERRORISM

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Innovation

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Spreading Excellence and Widening Participation

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Joint Research Center (JRC)

Euratom

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€816
million**

EXCELLENCE

Widening participation

Research and
Innovation

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

The logo graphic for 'eit' consists of a white circle containing several concentric circles in shades of blue and green, with a small white dot at the center.

eit

European Institute of
Innovation & Technology

**Integrating higher education
with Research & Innovation**

Research and
Innovation

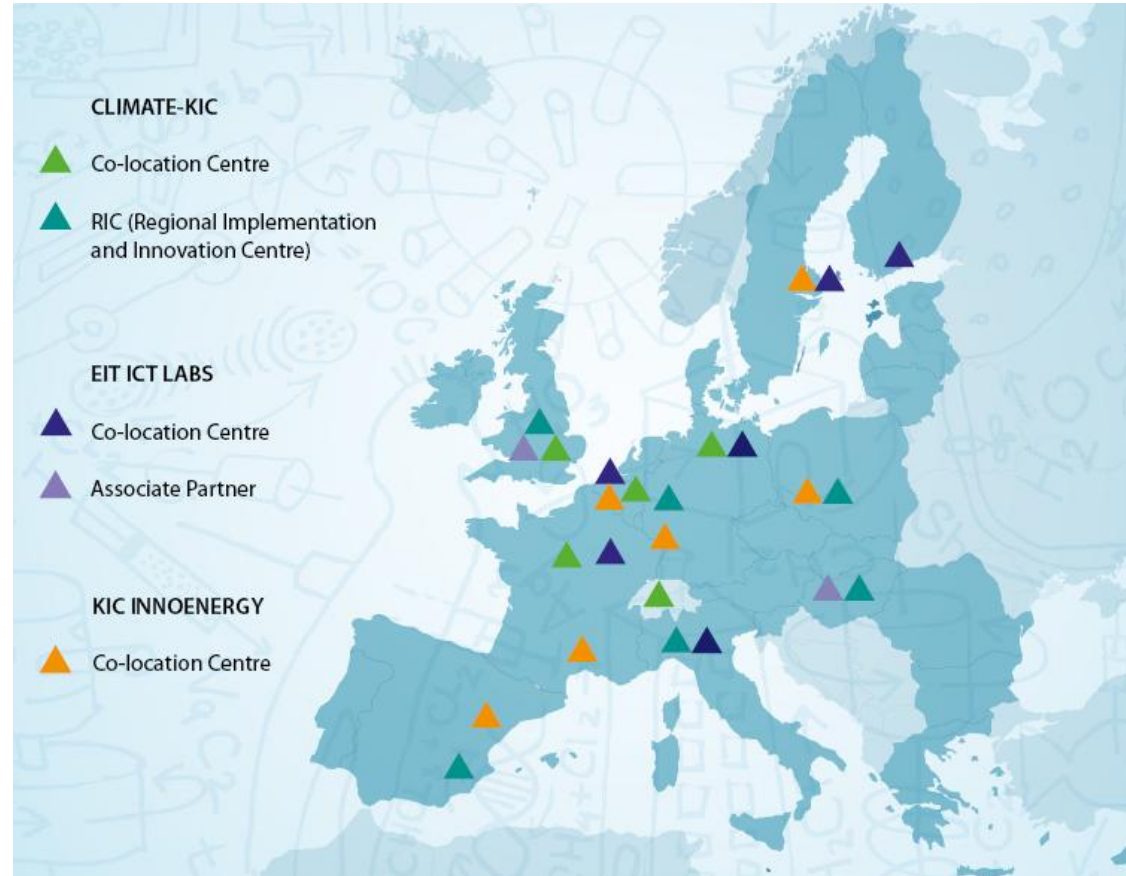


EIT operations – KICs Knowledge and Innovation Communities

sustainable energy
(*'KIC InnoEnergy'*),

climate change
(*'ClimateKIC'*)

future information
and
communication
society
(*'EIT ICT Labs'*)



THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

Science with & for society

Research and
Innovation



JRC

1.682 M €

EUROPEAN COMMISSION

Joint Research Centre

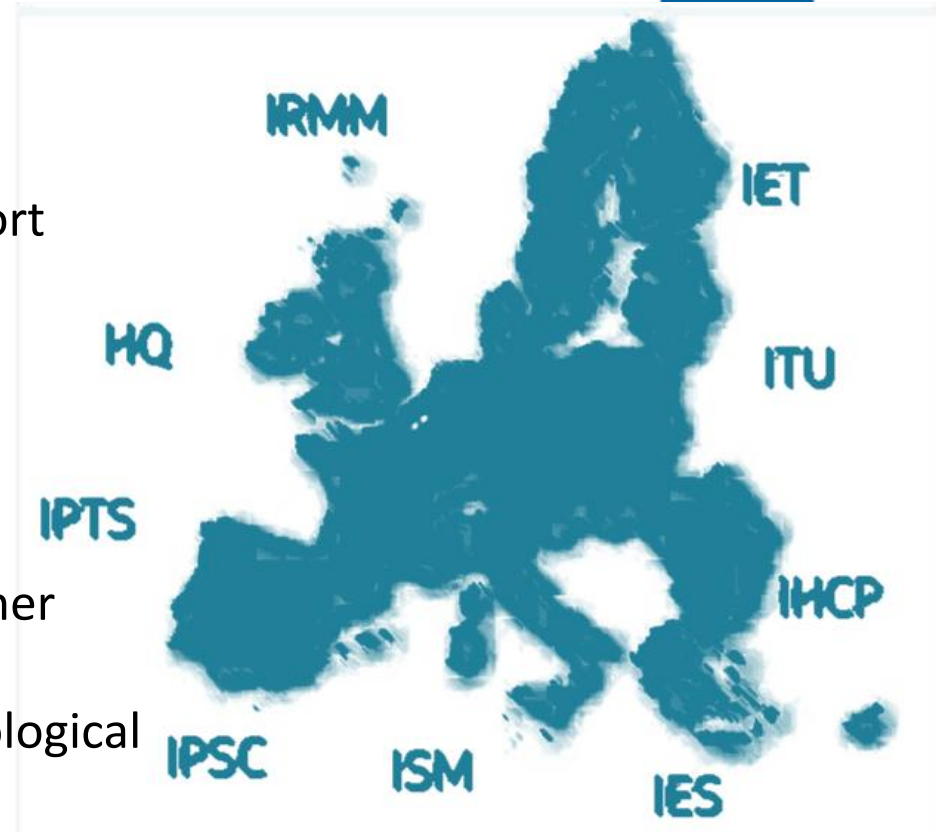
European Commission's in-house science service

which employs scientists to carry out research in order to provide independent scientific advice and support to EU policy



JRC Institutes

1. The Institute for Reference Materials and Measurements (IRMM)
 2. The Institute for Transuranium Elements (ITU)
 3. The Institute for Energy and Transport (IET)
 4. The Institute for the Protection and Security of the Citizen (IPSC)
 5. The Institute for Environment and Sustainability (IES)
 6. The Institute for Health and Consumer Protection (IHCP)
 7. The Institute for Prospective Technological Studies (IPTS)
- Headquarters (HQ)
 - Ispra Site Management (ISM)



THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**€939
million**



**Strong focus
on nuclear safety**

**Euratom Programme:
nuclear fission & fusion research**

*Research and
Innovation*

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020



International Cooperation

Research and
Innovation

HORIZON 2020 BUDGET (EUR 78.6 billion, current prices)

