



# Joint Transnational Call (JTC) 2016

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for Flagship-proof-of-concept projects on  
**ICT for Social Sciences,**  
**High-Efficiency Sensor Networks,**  
**Digital Medicine for Cancer,**  
and **Cooperative Robots.**

# Outline

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  - Proposal selection, grant preparation and project follow-up

# What is a FET Flagship?

- A **partnering model for large-scale research initiatives** proposed by the European Commission to address grand scientific and technological challenges
  - A federation of efforts funded from multiple sources
  - organised around a Core Project playing a leading role and
  - coordinated towards a unifying vision
- The first **two Flagship initiatives** were selected in 2013
  - Graphene Flagship
  - Human Brain Project (HBP)

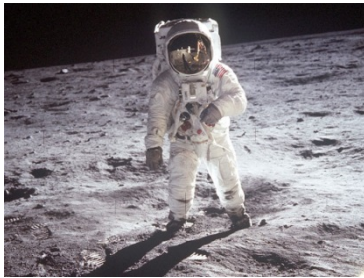
<http://ec.europa.eu/digital-agenda/en/fet-flagships>

<http://www.graphene-flagship.eu>

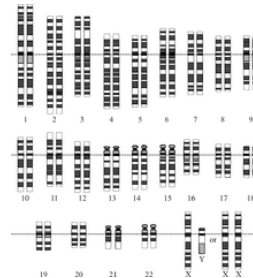
<http://www.humanbrainproject.eu>

# Examples of Flagship-like past initiatives

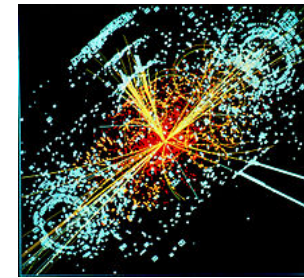
Source: [http://cordis.europa.eu/fp7/ict/programme/fet/flagship/doc/flagshipstudy\\_en.pdf](http://cordis.europa.eu/fp7/ict/programme/fet/flagship/doc/flagshipstudy_en.pdf)



Apollo program  
("Man on the Moon")



Human Genome  
Project



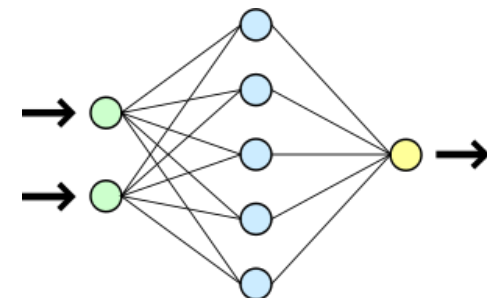
Large Hadron  
Collider



DARPA Grand  
Challenge



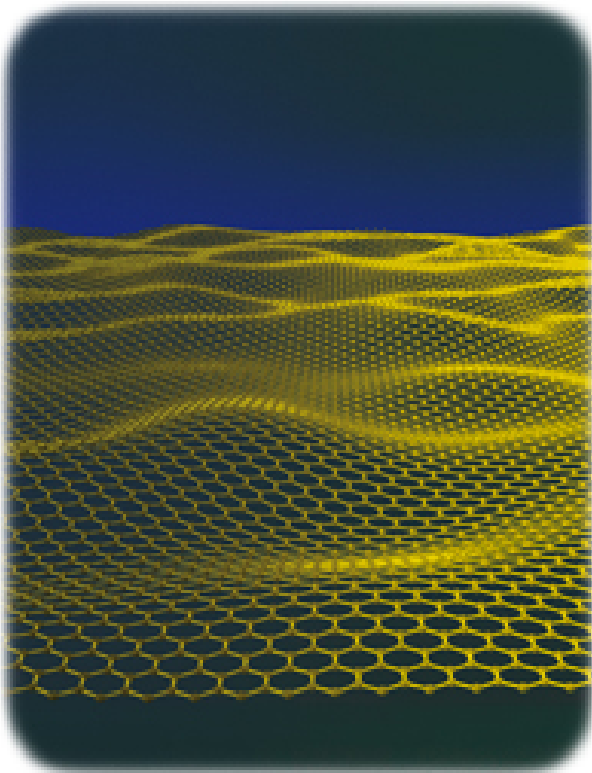
Deep  
Blue



5<sup>th</sup> Generation  
Computer

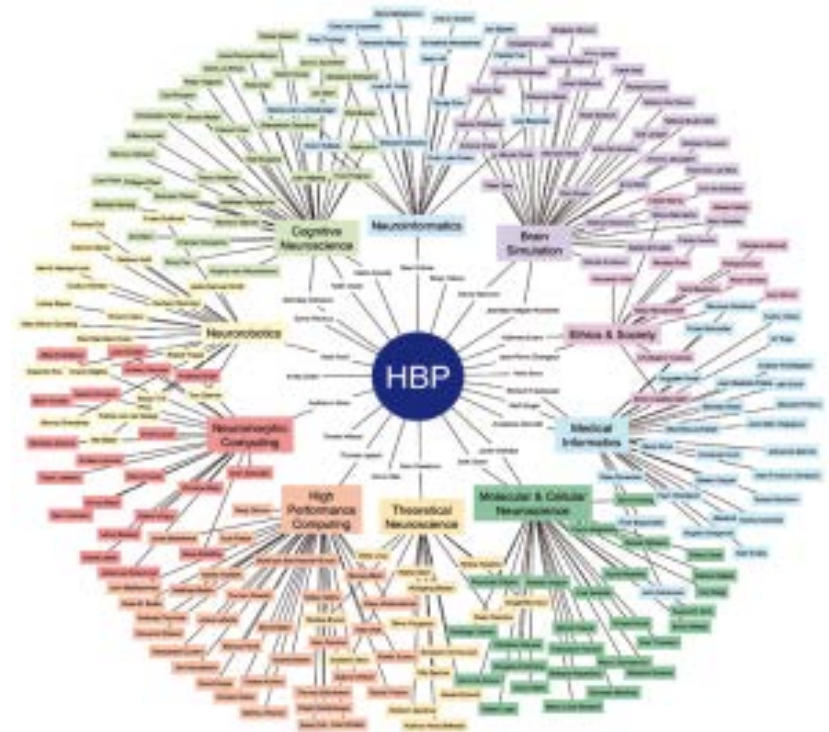
# The first two FET Flagship initiatives

## Graphene



[www.graphene-flagship.eu](http://www.graphene-flagship.eu)  
142 partners from 23 countries

## Human Brain Project



[www.humanbrainproject.eu](http://www.humanbrainproject.eu)  
112 partners from 24 countries

# The six FET Flagship Pilots



- managing **complexity** in the 21st century
- global participatory ICT platform
- planetary nervous system
- living earth **simulator**
- **socio-inspired** technologies



- **carbon-based electronics**
- layered materials
- optoelectronics
- spintronics
- supercapacitors and batteries



- **Autonomous smart systems**
- **Energy efficient** nanoelectronics: computing, communication, sensing
- Disruptive energy harvesting
- Nanotechnologies and heterogeneous integration
- Green e-assistants for improved quality of life



- Human Brain
- **neuroinformatics**
- **medical** informatics
- high performance computing
- **brain inspired ICT**



- virtual patient
- disease modelling
- high performance computing
- **personalized medicine**
- simulation



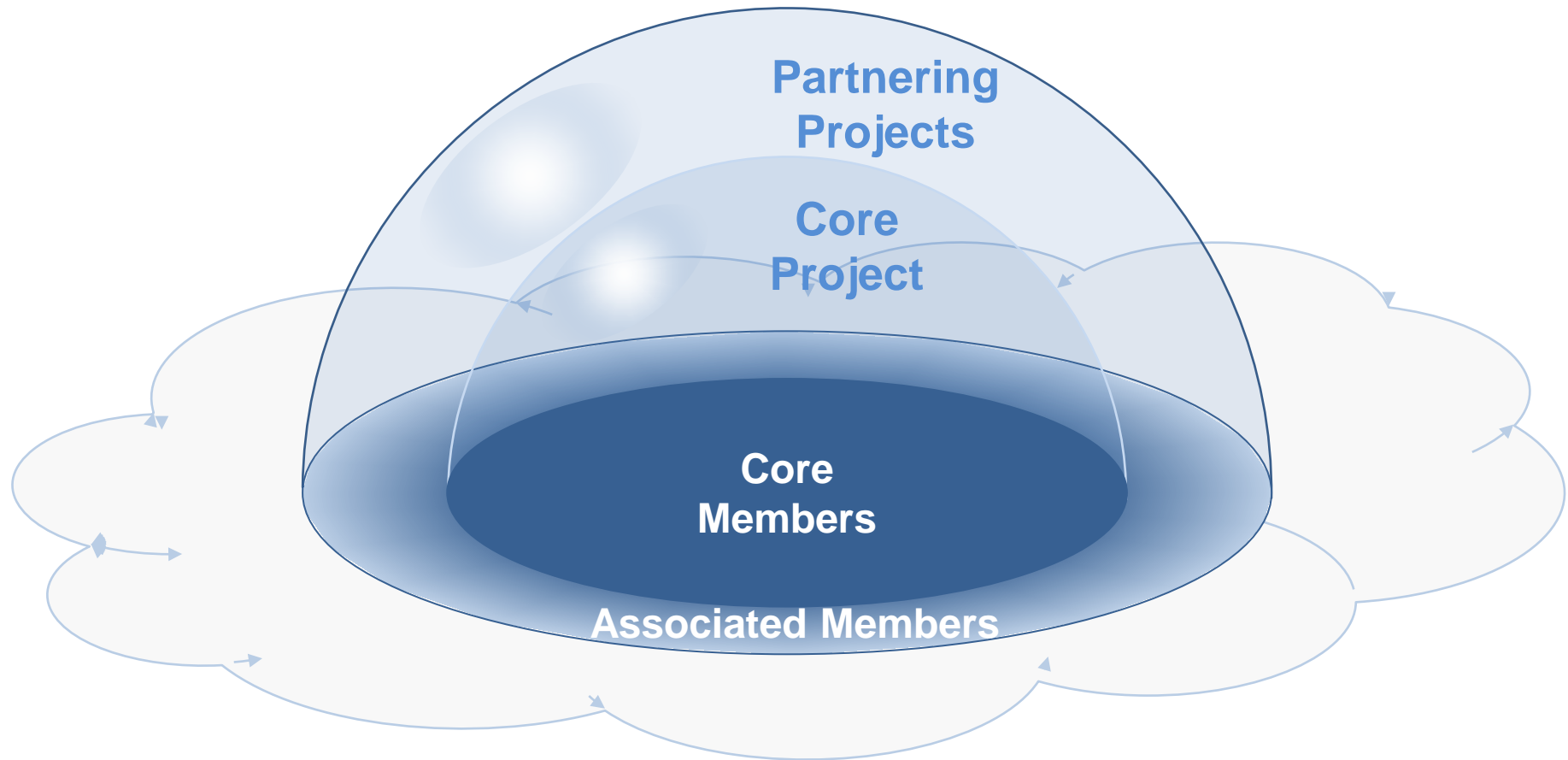
- **Robot companions for sustainable welfare**
- Science and Technology of embodied sentience
- New architectures for bodyware and mindware
- Understanding and building the brain-body-mind nexus
- Multi-scale science and technology of interaction

# The FET Flagship model

- A new model for long-term, large-scale initiatives in the European Research Area, based on
  - a unifying vision,
  - a core project serving this vision, and
  - mechanisms to align efforts funded from various sources with this core project and toward this unifying vision.
- A model for a large-scale integration of efforts while keeping flexibility through agile alignment mechanisms
- A model offering new possibilities
  - Vertical integration along the value chain
  - Horizontal integration across disciplines
  - Opportunity for large-scale data integration

# The FET Flagship Partnering model

Combining efforts from multiple sources of funding





# What is FLAG-ERA?

- FLAG-ERA is the FET Flagship supporting ERA-NET
  - A **network** of National and Regional Funding Organisations (NRFOs) in Europe and beyond
  - A **coordination and support action** supported by the European Commission (EC)
- Main goals
  - Set up, together with the two Flagship Core Projects and the EC, the **mechanisms** for using the existing national, regional and transnational calls in the framework of the Flagships
  - Launch **dedicated calls** such as the FLAG-ERA JTC 2015

<http://www.flagera.eu>

# FLAG-ERA goals and activities

- Tightly connect NRFOs with each core project through a small liaison group, and regular workshops involving all stakeholders
- Set up mechanisms for integration of nationally or regionally funded research into the Flagship work plans
- Maintain an inventory of funding and scientific landscapes
- Analyse overlaps & gaps to adapt national/regional research agendas
- Launch dedicated transnational initiatives, for instance joint calls for allowing researchers from several countries to join simultaneously
- Network with potential new participants

*For the 2 Flagships, while also offering support to the 4 non selected Pilots*

- Foster international cooperation beyond Europe
- Set up mechanisms for the whole Flagship duration (10 years)

# The Joint Transnational Call (JTC) 2016

- To build on the efforts of the 4 non-selected Flagship Pilots
  - Cooperative Robots (building on RoboCom)
  - Digital Medicine for Cancer (building on ITFoM)
  - High-Efficiency Sensor Networks (building on Gardian Angels)
  - ICT for Social Sciences (building on FuturICT)
- For each of the 4 topics, support one “Flagship-proof-of-concept” project showing, through the implementation of selected activities, how the possibilities offered by the Flagship model can bring added value
- At a time where new Flagships are considered
  - <https://ec.europa.eu/futurium/en/content/fet-flagships>

# Main goals

- Showcase federative activities with the potential to leverage other relevant initiatives
- Develop a long-lasting coordination of a large cluster of European and international research centres sharing the proposed unifying vision
- Be complementary with existing initiatives and focus on transformative activities with a high potential impact, in particular through changes of organisation and practices
  - by bringing together different disciplines or by developing new methodologies, evaluation metrics, benchmarking protocols, data production and sharing protocols, test platforms, and other tools supporting coordination of efforts and reproducibility of experiments, etc.
- Organise networking activities with the research community interested in the topic and deliver plans and recommendations to further develop activities and collaborations in order to reach maximum impact

# Participating countries and budgets

Country / Region	Funding Organisation	Indicative Budget			
		Topic 1 ICTSS	Topic 2 HESN	Topic 3 DMC	Topic 4 CR
Belgium / French-speaking community	FNRS	50 k€	50 k€	50 k€	50 k€
Belgium / Flanders	VLAIO	500 k€	500 k€	500 k€	500 k€
Croatia	MZOS	-	-	-	125 k€
Estonia	ETAg	50 k€	50 k€	50 k€	50 k€
France	ANR	500 k€	500 k€	-	500 k€
	INCa	-	-	400 k€	-
Italy	MIUR (grants <sup>1</sup> )	500 k€	500 k€	500 k€	500 k€
	MIUR (loans <sup>1</sup> )	500 k€	500 k€	500 k€	500 k€
Latvia	LZA	380 k€	200 k€	200 k €	200 k€
Romania	UEFISCDI	125 k€	125 k€	125 k€	125 k€
Switzerland	SNSF	1000 k€ <sup>2</sup>	1000 k€ <sup>2</sup>	-	1000 k€ <sup>2</sup>
Turkey	TUBITAK	400 k€	400 k€	400 k€	400 k€
Total:		4005 k€	3825 k€	2 725 k€	3950 k€

<sup>1</sup> MIUR (Italy) allocates 500 k€ of research grants and 500 k€ of loans (for enterprises only) per topic.

<sup>2</sup> SNSF (Switzerland) allocates 1000 kCHF maximum per topic in which it participates. The requested costs have to be expressed – and will be allocated – in CHF. The table assumes a parity change rate.

# Consortium formation (1/2)

- The coordinator must be a partner funded by an organisation participating in the call
- Proposals are encouraged to involve partners requesting funding for all funding organisations participating in the call
  - There can be more than one partner per funding organisation in a proposal
  - Do not exceed the allocated budget for each funding organisation
  - Follow the national eligibility rules (cf. national requirements in annex to the Call Announcement)
- Partners not requesting funding but whose contribution is needed for the project can be included in the consortium
  - They must show that they have secured the necessary funding
- Organisations interested in the project can be invited to the networking activities and mentioned in the proposal
  - They can provide a letter of support

# Consortium formation (2/2)

- No constraints on the interactions between proposals among themselves and with the Pilots
  - A given partner can participate in several proposals
  - Consortia can include members who participated in a Pilot as well as members who did not
- A partner search tool is available from the call web page
  - for expressing interest as a potential partner seeking a project or presenting a project proposal seeking partners and supports
    - To view expressions of interest already submitted, go to <http://www.flagera.eu/expressions-of-interest>
    - To enter your own expression of interest, go to <http://www.flagera.eu/node/121>

# Proposal submission

- Proposal form available on the call web page
  - Structured in sections corresponding to the evaluation criteria
- One-stage submission process
  - One joint proposal document shall be prepared by the partners of a joint transnational proposal and submitted by the coordinator.
- Submission deadline: March 31<sup>st</sup>, 17:00 CET
  - Online submission tool open by March 1<sup>st</sup>
    - [submission.flagera.eu](http://submission.flagera.eu)



# Evaluation criteria

The proposals are evaluated by an international scientific evaluation panel and ranked according to the following **four criteria**, each of these being equally weighted:

1. **Relevance** to the topic and to the general call objectives
2. **S/T Quality:** Scientific and/or technological excellence with respect to the topics of the call
3. **Implementation:** Quality and efficiency of the implementation and management
4. **Impact:** Quality of long-term plans and potential impact through the development, dissemination and exploitation of results

**Threshold for each criterion: 3/5**

**Threshold on total score: 14/20**

# Proposal selection, grant preparation and project follow-up

- Based on the outcome of the evaluation, the CSC might invite applicants to a negotiation stage according to the remarks and suggestions of the reviewers
- The list of projects recommended for funding will be published on the FLAG-ERA web site
  - Up to one selected proposal per topic, if above threshold
  - Expected publication date: Sept 2016
- Grant preparation at the national level
  - Expected project start: Oct 2016 – Jan 2017
- Yearly follow-up meetings
  - Related costs are eligible and it is recommended to include them in the project budget



## Further information

Call Announcement, submission form, electronic submission site:  
<http://www.flagera.eu/FLAG-ERA-call-2016>

National and regional contact points: Cf. Call Announcement (Annex II)  
Joint Call Secretariat: [FLAG-ERAJTC2016@fct.pt](mailto:FLAG-ERAJTC2016@fct.pt)

Stay informed of the latest information of FLAG-ERA and the Flagships:  
<https://www.facebook.com/flagera/>