



FET Flagships

Calls for Proposals for CSAs

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Policy environment for FET Flagships

Total Call Budget €1,600,000 Deadline 2014-04-10 17:00 (Brussels time)

Type of action: **Coordination and Support Actions**

Specific challenge:

The overall challenge is to foster a common European effort by contributing to dissemination efforts, impact assessments and other actions which support and strengthen the FET Flagship initiatives. This also extends to enhancing the interplay between FET Flagships and other Union policies and technology transfer of technologies towards exploitation. **Any proposal has to demonstrate that it adds value beyond the activities implemented in each the FET Flagships Graphene and HBP.**

> proposals should build on and link with the relevant Flagship activities



Policy environment for FET Flagships

Scope:

Actions supporting the policy environment of the FET Flagships, addressing aspects such as:

1. Supporting collaboration between the FET Flagships and international programmes;
2. Assessing the impacts of FET Flagship initiatives, including through metrics and indicators;
3. Analysing market potential and supporting technology transfer;
4. Collection of information need for policy making, e.g. through consultation actions and surveys.



Policy environment for FET Flagships

Expected impact:

- enhanced flow of information from FET Flagships towards in particular policy makers and the wider public;
- enhanced complementarities between FET Flagships and related initiatives, in particular those at a global level;
- improved understanding of impacts of FET Flagships on science, technology, economy and society;
- Better use of opportunities for technology transfer, innovation and exploitation;
- Improved availability of information need for policy making;
- Stable and structured environment for the benefit of the FET Flagships.



1. Supporting collaboration between the FET Flagships and international programmes

-Policy context-

- *"International cooperation with third countries is necessary to address effectively many specific objectives defined in Horizon 2020. This is the case in particular for all the societal challenges addressed by Horizon 2020, which need to be tackled at the global level.*
- *International cooperation is also essential for frontier and basic research in order to capture the benefits from emerging science and technology opportunities.*
- *Activities at the international level are equally important to enhance the competitiveness of European industry by promoting the take-up and trade of novel technologies, for instance through the development of worldwide standards and guidelines, and by promoting the acceptance and deployment of European solutions outside Europe."*

[Source: H2020 Specific Programme]



1. Supporting collaboration between the FET FLAGSHIPS and international programmes

-Some initial ideas-

- developing the global dimension of a Flagship helping to build up cooperation with similar programmes/initiatives in other parts of the world (considerations of mutual interest, benefit and reciprocity should be a guiding principle);
- include partners from the targeted country(ies), build on experience from bilateral agreements of MS with third countries, when appropriate
- address issues, such as:
 - identification of opportunities and priorities and recommendations for actions
 - identification of opportunities for wider exploitation of results
 - sharing of good practices
 - addressing specific needs in the field of scientific data management (e.g. development of common data policies and standards)

through the organisation of workshops, seminars, visits of scientists or any other relevant actions.



2. Assessing the impacts of FET Flagship initiatives, including through metrics and indicators

-Policy context-

"Research and innovation have been placed at the centre of the Europe 2020 strategy to promote smart, sustainable and inclusive growth. This includes the headline objective of increasing spending on R&D to 3% of GDP by 2020. The Innovation Union flagship initiative provides a comprehensive set of actions for stepping up research and innovation performance." [H2020 Specific Programme]

The Flagships have already their own metrics and indicators, but there is a need to further develop and refine research and innovation metrics and indicators to measure this R+I performance, and impact, in H2020.

Two examples: dissemination as measured by publications and conferences; take-up of results as measured by number of patents exploited by industry. In addition some of the Flagship metrics are taken as the basis of the set of indicators, also related to the H2020 and EU policy targets, in the fiches that describe the Unit C4 Flagships:

<https://ec.europa.eu/dgs/connect/en/content/organisation-chart>



2. Assessing the impacts of FET Flagships initiatives, including through metrics and indicators

-Some initial ideas-

- Relevance to Flagship initiatives and to other comparable research actions
 - scientific, technological, economic and societal impact
 - contribution to EU level of excellence and leadership in the scientific arena, and globally
 - impact on competitiveness of industry by leading to breakthrough technologies
 - potential effect of the creation of new industries and new jobs
 - societal benefit
 - funding capacity of a flagship including different sources, such as: EU, international, national, industrial commitment, associations, private



3. Analysing market potential and supporting technology transfer -Policy context-

"The Innovation Union policy initiative highlights the need for Europe to develop a distinctive approach to innovation built on its unique set of values. Horizon 2020 takes a broad approach to innovation that is not limited to bringing new products to the market, but also covers processes, systems or other approaches, including by recognising European strengths in design, creativity, services and the importance of social innovation. " [H2020 Specific Programme]

"H2020 Objectives:

- The integration of research and innovation by providing seamless and coherent funding from idea to market;*
- More support for innovation and activities close to the market, leading to a direct economic stimulus;*
- A strong focus on creating business opportunities out of our response to the major concerns common to people in Europe and beyond, i.e. 'societal challenges';*
- Industrial Leadership. This will aim at making Europe a more attractive location to invest in research and innovation (including eco-innovation), by promoting activities where businesses set the agenda. It will provide major investment in key industrial technologies."*



3. Analysing market potential and supporting technology transfer

-Some initial ideas-

- exchange of best practices across the two Flagships
- additional areas beyond the current flagship roadmaps which are worth pushing for commercialisation
- strategy versus non-EU competitors: what niches should be explored where EU can build or hold a competitive advantage or be in a position to negotiate with the rest
- The FET Flagships aim to be a new approach for H2020, in reaching the innovation objectives



4. Collecting of information needs for policy making e.g. through consultation actions and surveys

-Policy context-

"Smart investment, notably in research and innovation, is vital in order to maintain high standards of living while dealing with pressing societal challenges such as climate change, an ageing population, or the move towards a more resource-efficient society.

Completion of the European Research Area (ERA) is urgently needed to avoid costly overlaps and unnecessary duplication of activities. It entails building a genuine single market for knowledge, research and innovation, enabling researchers, research institutions and businesses to circulate, compete and co-operate across borders."

[From H2020 Specific programme]



4. Collection of information need for policy making, e.g. through consultation actions and surveys

-Some initial ideas-

- impact of Flagships at EU level policies on the ERA, and other relevant policies, including the Innovation Union
- research funding models, Open Access to publications and data, HPC, energy, health, international cooperation
- background info and scenarios needed to push or change existing policies or to establish new cross-themes policies.
- Evidence-based policy-making



Further information:

- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2073-fetflag-2-2014.html>
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2072-fetflag-1-2014.html>
- http://cordis.europa.eu/fp7/ict/programme/fet/flagship/home_en.html
- <http://www.graphene-flagship.eu/>
- <https://www.humanbrainproject.eu>
- <http://ec.europa.eu/digital-agenda/en/news/horizon-2020-future-emerging-technologies-fet-information-day>
- <https://ec.europa.eu/dgs/connect/en/content/organisation-chart>