US - EU Workshop on 2D Layered Materials and Devices
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FET Flagships

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Horizon 2020

European Research Council
Future and Emerging Technologies
Marie S. Curie Actions
Research Infrastructures

Excellent Science

Industrial Leadership

Societal Challenges

24B€

17B€

30B€
"Future and emerging technologies shall support collaborative research in order to extend Europe’s capacity for advanced and paradigm-changing innovation. It shall foster scientific collaboration across disciplines on radically new, high-risk ideas and accelerate development of the most promising emerging areas of science and technology…”

FET Flagships

FET Flagships: What are they?
- Science-driven, large-scale research initiatives addressing a grand S&T challenge over a longer time period: 10 years research roadmap with a budget of ~100 M€/year
- with a clear mission and unifying goal
- achieving transformational impacts on S&T resulting in key competitive advantage for European industry, and delivering substantial benefits to society

What do they bring?
- An unprecedented volume of scientific knowledge on a given area
- Establish Europe as a global leader in their domain and an attraction pole for international cooperation
- Potential game changer in terms of new scientific discoveries and innovation:
  - New talents, new skills
  - A long-lasting structuring effect on research efforts in Europe
  - A large impact on competitiveness and society
**Current Flagships**

### Graphene

- [www.graphene-flagship.eu/](http://www.graphene-flagship.eu/)
- Bring graphene & related 2D materials from academic labs to industry and society
- 142 partners from 23 countries
- EU funding 2014-2015: 54 M€
- EU funding 2016-2017: 89 M€

### Human Brain Project

- [www.humanbrainproject.eu/](http://www.humanbrainproject.eu/)
- ICT experimental facility for developing models of the brain
- 112 partners from 24 countries
- EU funding 2014-2015: 54 M€
- EU funding 2016-2017: 89 M€

### FP7 ERANET

- [www.flagera.eu](http://www.flagera.eu)
- 01 Oct 2013 for 3 years
- 37 funding agencies from 26 European countries
Research on Graphene +2D materials in EC Programmes

EU funded projects
(excluding Graphene Flagship)
International cooperation is a key objective of Horizon 2020 – open to collaboration from across the globe.

This is even more so for FET Flagships, which by their nature form a hub for research in a given field and need a strong international collaboration dimension to achieve their goals.

EU expectations from the workshop:

- Confirmation of potential for collaboration & identifying mutual benefits
- Identification and prioritisation of S&T topics
- Concrete objectives for each topic
- Scheme/metrics to monitor and understand progress
THANK YOU!