

FLAG-ERA

The ERA-Net for supporting the FET Flagships

www.flagera.eu

Coordination: **ANR** AGENCE
NATIONALE
DE LA
RECHERCHE

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Supported by the



European
Commission

The 2 missions of FLAG-ERA

Networking the funding organizations regarding Flagships topics

Coordinating the efforts of the funding agencies to promote the Flagship initiatives

Enabling; Facilitating; Improving
The **dialogue** from the Flagships toward the research communities, and the contrary around

Launching and managing transnational calls

Funding the best transnational initiatives in the domain of the Flagships

Flagship Partnering Projects

FLAG-ERA Transnational calls

Scope & Outreach

Mostly Trans-disciplinary projects

ICT related Flagship Pilot Projects

ICT and / for Material Sciences:

Graphene

Basic and Applied Research

ICT and / for Neurosciences:

HBP computing neuroscience

23 countries with funded projects
From which **9 widening countries**

30% success rate on the co-funded calls

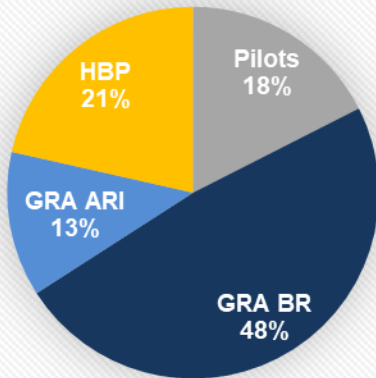
71 funded projects
Representing **378 participants**

Effective funding **53,1 M€**

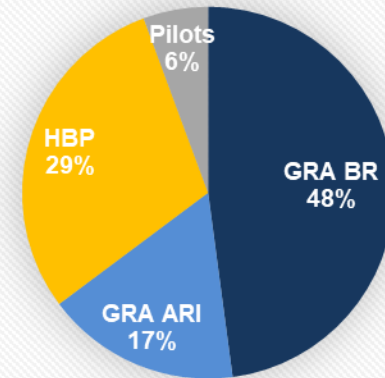
New Flagship Partnering Projects

FLAG-ERA calls: distribution Funding & Projects

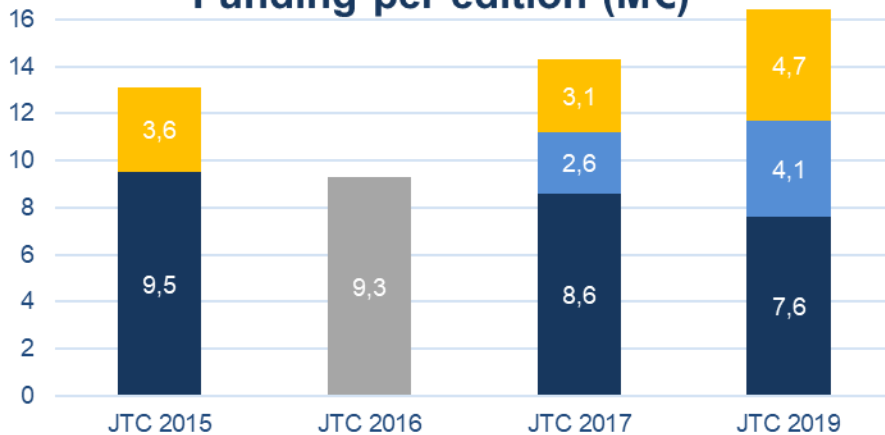
Total funding : 53,1 M€



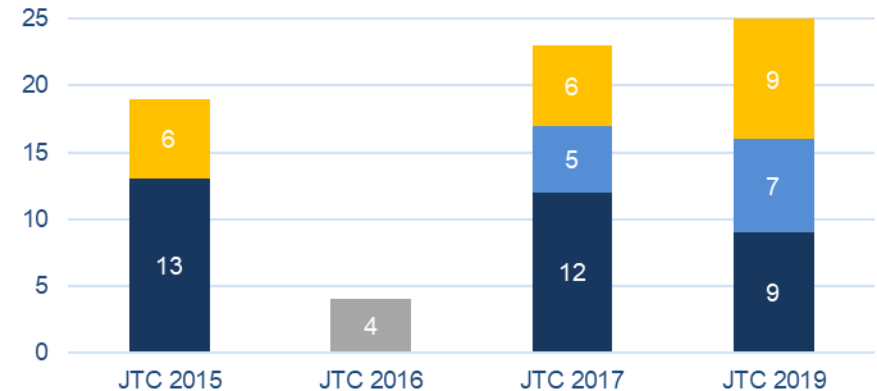
71 projects



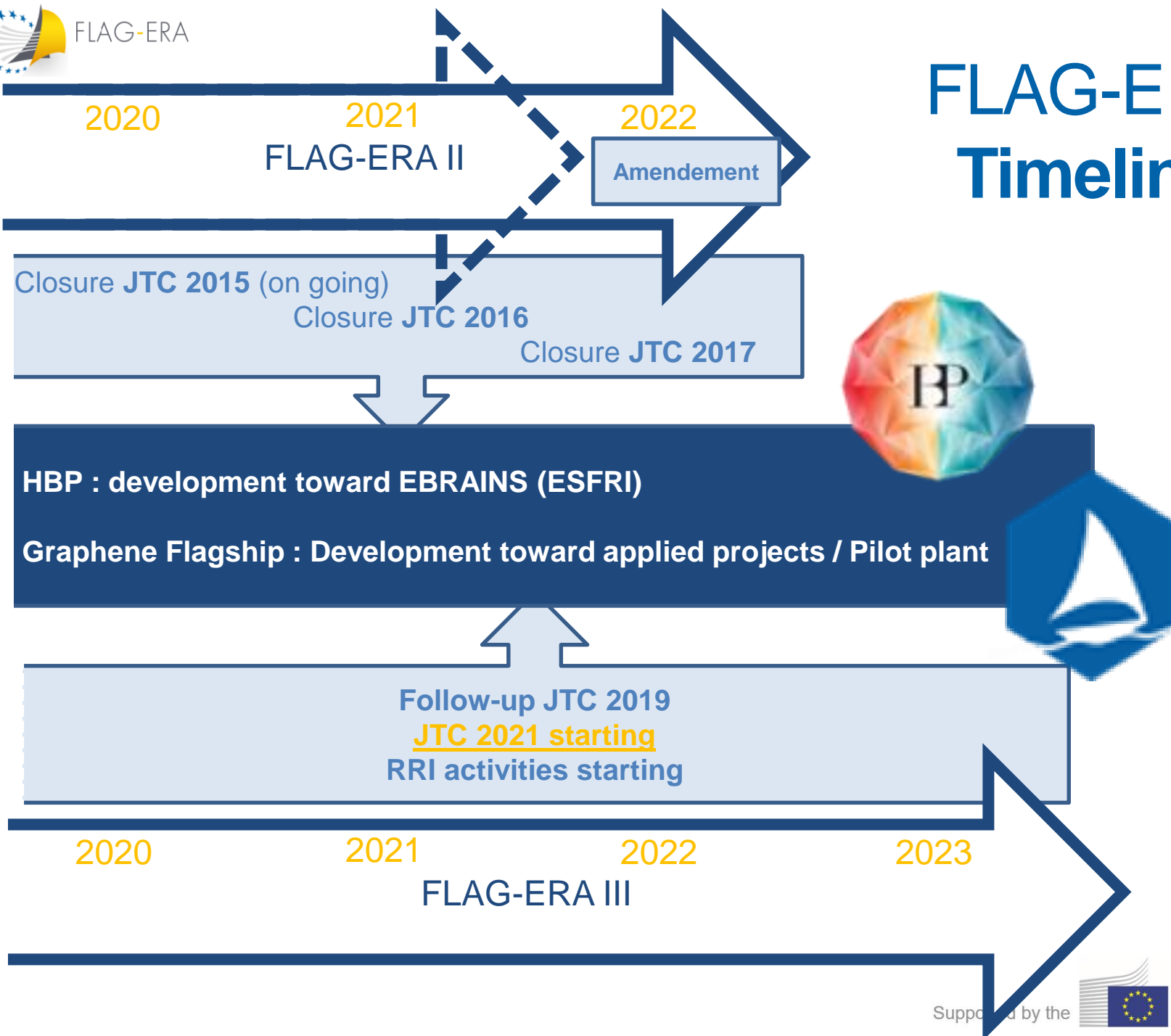
Funding per edition (M€)



Number of projects per edition



FLAG-ERA Timeline



FLAG-ERA in 2020

2020

FLAG-ERA II

Amendement

JTC 2015

Closure

Analysis sent:
6 outstanding projects
ex: start up,
patents, new software...

JTC 2016

Project follow-up
workshop in 02/2020.

Open book for
RoboCom++
Financ2.0 for FuturICT
Open call for ITFoC

JTC 2017

17 (/23) projects
extended until end of
2021.

Intermediary reports
and reviews: few issues
notified; some
outstanding projects
with good collaboration
with the Flagship

JTC 2019

Follow-up phase

JTC 2021

Just open for
proposal
submission

2020

FLAG-ERA III

FLAG-ERA in Horizon Europe



? Countries financing the ESFRI EBRAINS ?



EBRAINS

HBP : development toward EBRAINS (ESFRI)

FLAG-ERA JTC 2021 "Pilot projects"

Graphene Flagship : Development toward applied projects / Pilot line

* Support from the DG-CNECT



* Possible interactions with other actions:



CHIST-ERA



QuantERA



M-ERA



Battery 2030



2020

2021

2022

2023

2024 ?


FLAG-ERA III

JTC 2021 and RRI
Impact analysis




JTC 2021















Announced on November the 30th 2020






15 countries
18 funding agencies

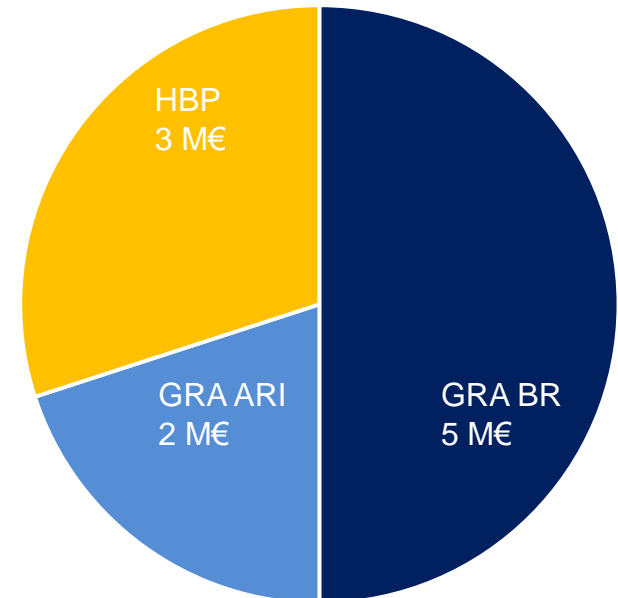


JTC 2021



Country		Funding agency	Graphene Basic	Graphene Applied	HBP
BE	Belgium	FNRS			
BE	Belgium	FWO			
BG	Bulgaria	BNSF			
DE	Germany	DFG			
ES	Spain	AEI			
ES	Spain (Asturias)	IDEPA			
ES	Spain	ISCI			
FR	France	ANR			
HU	Hungary	NKFIH			
IL	Israël	Innov Authority			
LT	Lithuania	LMT			
LV	Latvia	VIAA			
NL	Netherlands	ZonMW			
RO	Romania	UEFISCDI			
SE	Sweden	VR			
SI	Slovenia	MIZS			
SK	Slovakia	SAS			
TR	Turkey	TUBITAK			

Committed budget: 10M€



JTC 2021

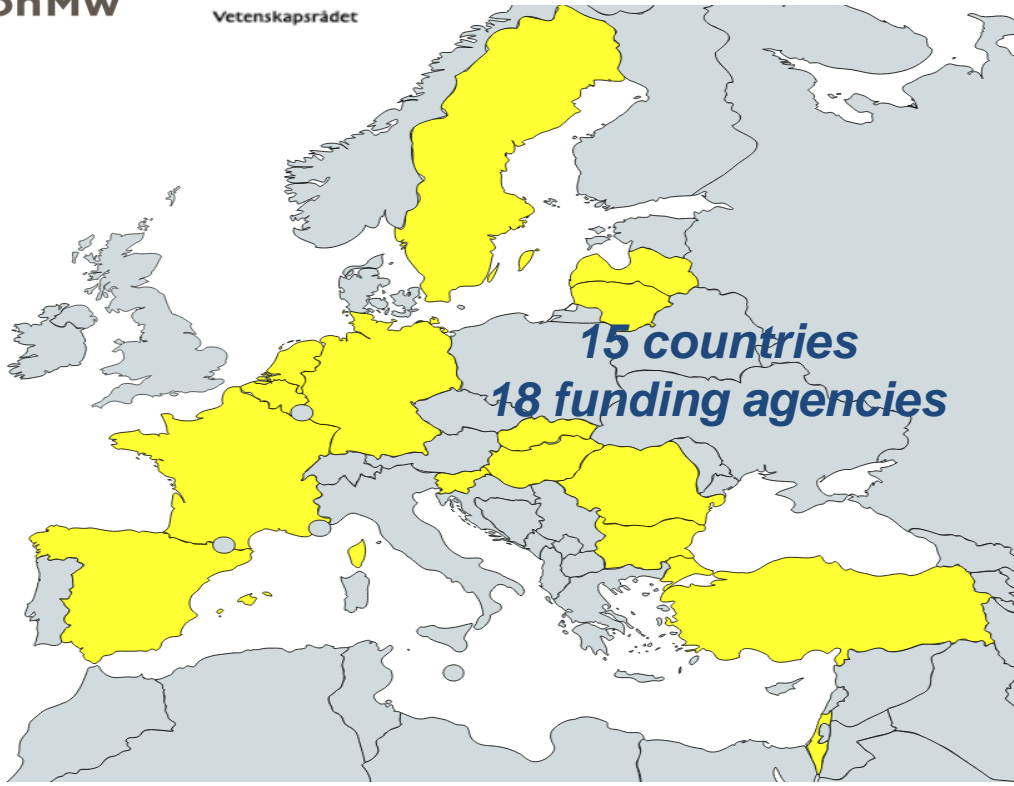
- Consortia must be **international**;
- Consortia must be **balanced**, regarding the participations of the partners (and the funding);
- Furthermore, **FLAG-ERA promotes**:
 - Participation of widening countries;
 - Gender balanced consortia.

1 step procedure




JTC 2021


















www.flagera.eu
 Information webinar will take place on January the 19th 2021



15 countries
18 funding agencies



JTC 2021

Graphene Basic Research dedicated sub-call

- Layered magnetic materials and heterostructures
- Growth and device integration of two-dimension amorphous material
- Scalable growth & device integration of ultralow power spin-orbit memories based on GRMs
- Bacterial degradation of GRMs
- GRM based devices and circuits for neuromorphic computing
- Infrared+THz emission and detection with twisted GRMs
- Functionalized GRMs for advanced multivalent metal-ion batteries (MMIBs)
- Chemical sensing with GRMs
- Mxene foams for capacitive deionization water desalination
- Rheological models for GRM suspensions and multiphase flows



Graphene Applied Research and Innovation dedicated sub-call


- Antiviral protection with GRM-based foams and coatings
- GRM-based neural interfaces for bioelectronics medicines
- GRM-based spectrometer for visible and infrared
- GRM-based, ultra-broadband THz-transceiver technologies for 6G compliant wireless communication
- Tuning the hot-carrier lifetime in layered materials heterostructures for photoresponsivity enhancement
- GRMs for advanced metal-ion supercapacitors
- GRM-based electrodes for redox flow batteries
- GRM components for self-charging and self-powered electronics



Human Brain Project dedicated sub-call

The projects should propose **holistic approaches combining computer sciences and neurosciences** to address at least one of the following aims:

- **Studying genotype-phenotype relationships related to brain function.** projects dealing with anatomical as well as functional phenotypes in animal models as well as in large human cohorts are eligible.
- **Tackling psychiatric diseases.** Research projects developing diagnostic, patients stratification or treatment strategies for Psychiatric Diseases by combining diverse types of clinical data as well as data covering social aspects of these diseases including subjective well-being are eligible.
- **Accelerating the diagnosis and the development of therapeutic approaches for rare diseases affecting the nervous system.** Clinical and preclinical proposals making use of available medical or preclinical datasets for or simulation studies are eligible.

The projects falling within the scientific scope of this call for proposals are invited to consider using the following  EBRAINS resources (<https://ebrains.eu>)