

FLAG-ERA

The ERA-Net for supporting the FET Flagships

www.flagera.eu

Coordination FLAG-ERA: marie-alexandra.neouze@anr.fr

Graphene Flagship contact: graphene-eu@esf.org

HBP contact: flag-era2021@ebrains.eu





Transnational calls Scope: supporting Flagships

*) JTC 2015, 2017 & 2019 supporting Graphene Flagship and HBP

Topics defined with the funding agencies & Flagships

Graphene Basic and Applied Research HBP computing neuroscience





*) JTC 2016 for Flagship Pilot projects





Transnational calls Graphene & HBP





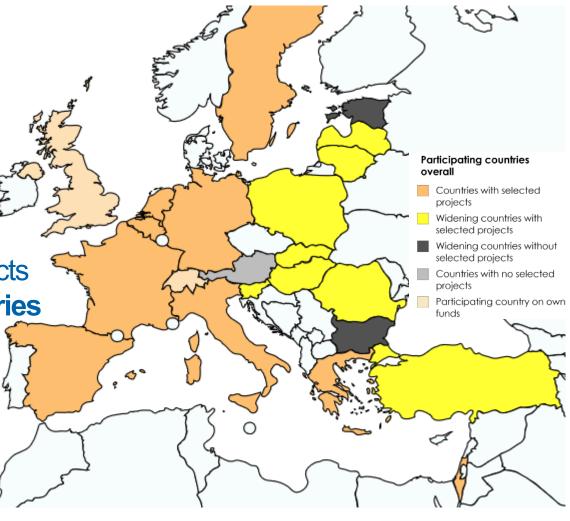
Outreach

67 funded projectsRepresenting **309 participants**

27% success rate

20 countries with funded projects From which **8 widening countries**

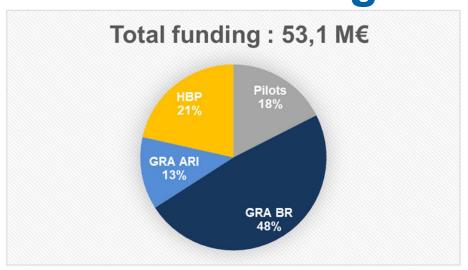
Effective budget 42,5 M€

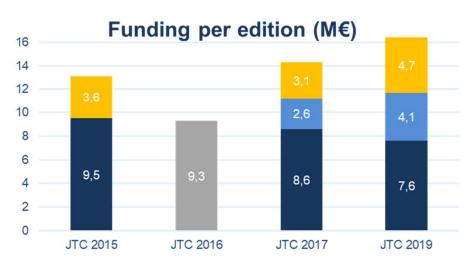


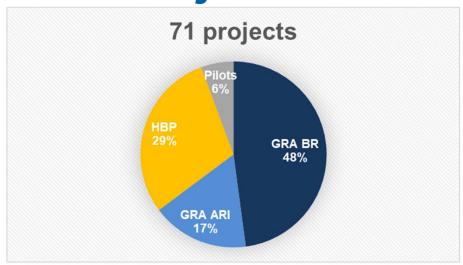




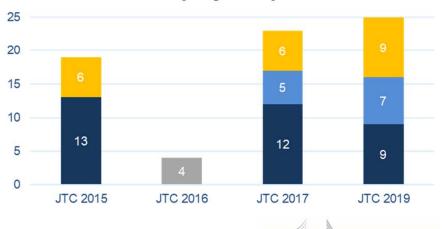
FLAG-ERA calls: distribution Funding & Projects















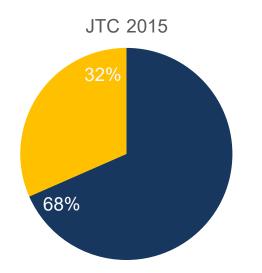
Transnational calls Graphene & HBP

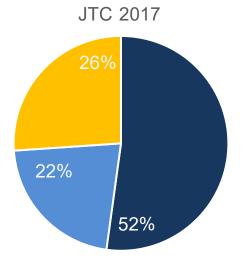


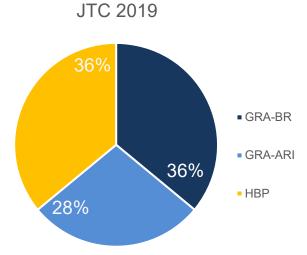


Statistics

Funded projects	JTC 2015	JTC 2017	JTC 2019
Graphene Basic Research		12	9
Graphene Applied R&I	13	5	7
Human Brain Project	6	6	9
Overall	19	23	25
Success rate	18%	34%	30%







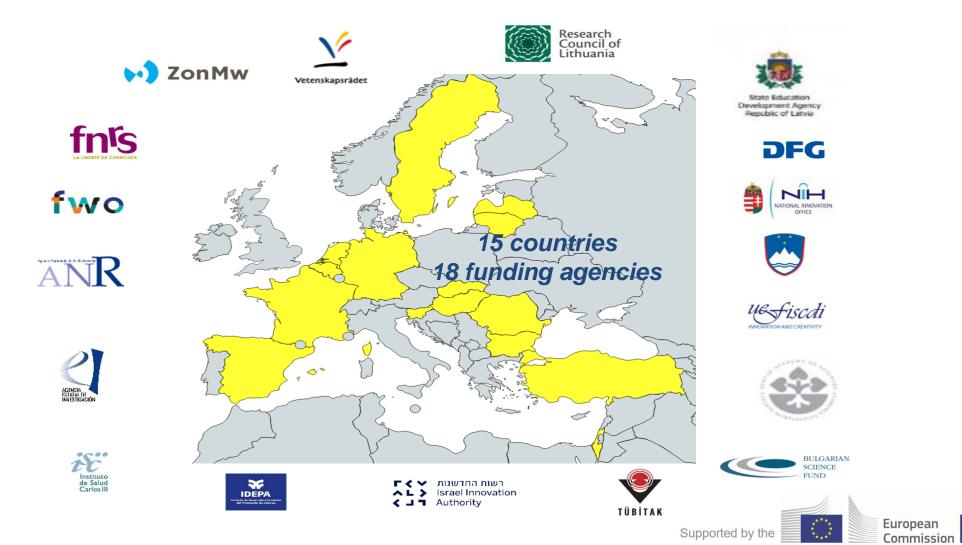








<u>www.flagera.eu</u> Submission Dead Line April the 19th 2021

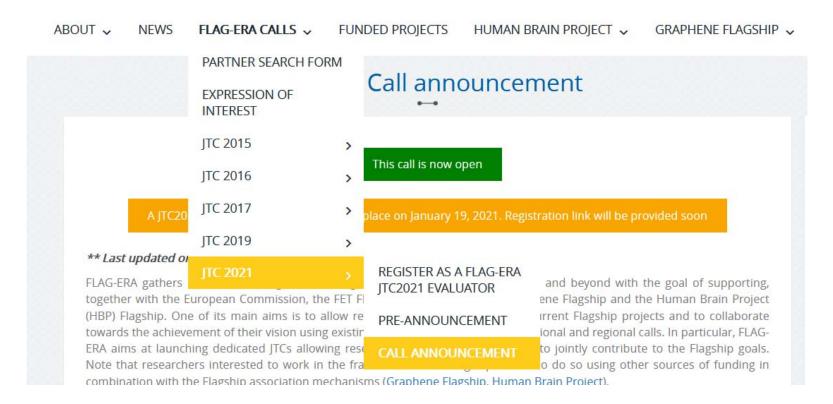






Practical Information













Eligibility criteria

- Consortia must be international. They must involve at least:
 - 3 partners requesting funding from 3 participating countries, or
 - 2 partners requesting funding from 2 participating countries and a partner from another country securing its own funding as a Flagship Core Project partner.
- Consortia must be balanced:
 - The maximum requested funding allowed per country in a proposal is 60% of the total requested funding of the proposal,
 - if only partners from 2 countries apply for funding, in which case this figure is raised to 75%.

! 1 step procedure!









- 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

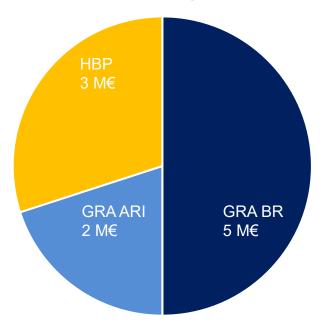






	<u> </u>	F 1:			LIDD
Country		Funding agency	Graphene	Graphene	HBP
			Basic	Applied	
BE	Belgium	FNRS			
BE	Belgium	FWO			
BG	Bulgaria	BNSF			
DE	Germany	DFG			
ES	Spain	AEI			
ES	Spain (Asturias)	IDEPA			
ES	Spain	ISCIII			
FR	France	ANR			
HU	Hungary	NKFIH			
IL	Israël	Innov Authority			
LT	Lithuania	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€







Graphene Basic Research dedicated sub-cal

- 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-cal

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)

Contact: flag-era2021@ebrains.eu









Practical Toolbox

https://www.flagera.eu/flag-era-calls/flag-era-joint-transnational-call-jtc-2021/jtc2021-call-announcement/

Links to relevant documents

To learn more on the topics, eligibility criteria and the submission of proposals to the JTC2021, please consult the FLAG-ERA JTC2021 Call announcement.

In order to facilitate contacts with the relevant parts of the Flagships, contact information is provided for the Graphene Flagship and the HBP.

A JTC 2021-Partner(s) Search Tool for submitting Expressions of Interest (EoI) is currently open. Consult all the JTC 2021 EoI.

To prepare your pre-proposal, use the FLAG-ERA JTC2021 Proposal Form and the Flagship partnership proposal form for either Graphene or HBP.

To help you through the submission process, please consult the FLAG-ERA JTC 2021 Submission Guidelines.

The links to the submission web sites are:

- Graphene Basic Research
- Graphene Applied Research and Innovation
- HBP Basic and Applied Research









Practical Toolbox

https://www.flagera.eu/flag-era-calls/flag-era-joint-transnational-call-jtc-2021/jtc2021-call-announcement/

Links to relevant documents

To learn more on the topics, eligibility criteria and the submission of proposals to the JTC2021, please consult the FLAG-ERA JTC2021 Call announcement.

In order to facilitate contacts with the relevant parts of the Flagships, contact information is provided for the Graphene Flagship and the HBP.

A JTC 2021-Partner(s) Search Tool for submitting Expressions of Interest (EoI) is currently open. Consult all the JTC 2021 EoI.

To prepare your pre-proposal, use the FLAG-ERA JTC2021 Proposal Form and the Flagship partnership proposal form for either Graphene or HBP.

To help you through the submission pro

The links to the submission web sites a

- Graphene Basic Research
- Graphene Applied Research and I
- HBP Basic and Applied Research

Potential partner looking for a project

Main topic(s) of interest: Graphene (Basic Research), Graphene (Applied Research and Innovation)

Brief description of expertise:

Department of Catalysis and Chemical Reaction Engineering is primarily invested in chemical (process) engineering, reactor and unit operation design and construction, as well as multi-scale process modelling. The Department topics foremost include carbon dioxide and natural gas conversion, hydrogen and fuel cell technologies, biomass valorisation to bio-based compounds, and (bio)pharmaceutical processes (https://www.ki.si/en/departments/d13-department-of-catalysis-and-chemical-reaction-engineering/).

Keywords: Modelling, Multi-scale, Simulation, Materials, Optimisation, Ab Initio, In Silico

First Name : Matej

Last Name : Huš

Country : Slovenia

E-mail address : matej.hus@ki.si Telephone : 00386 1 4760 373

an







Practical Toolbox

https://www.flagera.eu/flag-era-calls/flag-era-joint-transnational-call-jtc-2021/jtc2021-call-announcement/

Links to relevant documents

To learn more on the topics, eligibility criteria and the submission of proposals to the JTC2021, please consult the FLAG-ERA JTC2021 Call announcement.

In order to facilitate contacts with the relevant parts of the Flagships, contact information is provided for the Graphene Flagship and the HBP.

A JTC 2021-Partner(s) Search Tool for submitting Expressions of Interest (EoI) is currently open. Consult all the JTC 2021 EoI.

To prepare your pre-proposal, use the FLAG-ERA JTC2021 Proposal Form and the Flagship partnership proposal form for either Graphene or HBP.

To help you through the submission process, please consult the FLAG-ERA ITC 2021 Submission Guidelines.

The links to the submission web sites are:

- Graphene Basic Research
- Graphene Applied Research and Innovation
- HBP Basic and Applied Research









European

Commission

Practical Toolbox

https://www.flagera.eu/flag-era-calls/flag-era-joint-transnational-call-jtc-2021/jtc2021call-announcement/

Links to relevant documents

To learn more on the topics, eligibility criteria and the submission of proposals to the JTC2021, please consult the FLAG-ERA

Authentication page 2.4. contact information is provided for the Graphene Flagship (Eol) is currently open. Consult all the JTC 2021 Eol. **Authentication Page** Insert your e-mail rm and the Flagship partnership proposal form for either address Email address: Password: RA ITC 2021 Submission Guidelines. Insert password Forgotten password / Generate a new password To submit a new proposal, please go to the Call page on the ANR website For any information, please contact the person in charge of the Call. . We advise you to allow popups from your browser settings. . Cookies and JavaScri Message to experts and o If you have forgotten your password, you can provide your e-mail address If you already have an acco here to get a new one. If you have not received or "Forgotten password" locat 200 Forgotten password Back to the authentication page Supported by the



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 cofunded calls

71 funded projectsRepresenting **378 participants**

Effective funding **53,1 M€**

New Flagship Partnering Projects

