Funding opportunities in emerging technologies via ERA-NET

With the participation of CHIST-ERA, FLAG-ERA and QuantERA

19th November 2020, 11.00 (CET)



Webinar Objectives

☐ The objective of the webinar is to provide up-to-date information on the content of the last ERA-NET Cofund open calls to potential applicants

☐ It will provide information on support facilities available to the applicants at the national and European levels.



AGENDA

Introduction on opportunities in emerging technologies under the EIC Pilot [15]

- The EIC evolution: what do we know until now?
- Relevant initiatives and opportunities for Pathfinder projects

Funding Opportunities under H2020 FET ERA-NET Cofund [45]

- > The CHIST-ERA initiative and its planned Call for Proposals
- ➤ The FLAG-ERA initiative and its open Call for Proposals
- > The QuantERA initiative and its planned Call for Proposals
- > A QuantERA Success Story: the *ApresSF* project

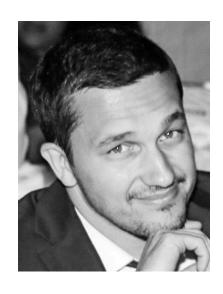
Relevant initiatives available for R&I ecosystem [10']

- The FETFX project and what it can do for you
- The Access2EIC NCP Network

Q&As [20']



CHIST-ERA explained by Mathieu Girerd



Mr. Mathieu Girerd is working at the French National Research Agency (ANR).

He is the coordinator of the international activities of the Digital Technology and Mathematics Department and the coordinator of the European project CHIST-ERA. He acts also as the French National Contact Point for the Horizon 2020 Future and Emerging Technologies (FET) programme.



Before joining ANR, he worked at the French Embassy in Austria, in charge of promoting scientific and academic cooperation between France and Austria, and at the European Space Policy Institute as a Research Assistant. Mathieu Girerd has a background in theoretical physics and in research management.



FLAG-ERA explained by Marie-Alexandra Neouze





www.flagera.eu

Mrs. Marie-Alexandra Neouze (Ph.D.; Docent) is working at the Digital Technology and Mathematics Department of ANR since 2019 as an international programme officer.

Before joining ANR, she was Assistant Professor in materials sciences. She received her "Habilitation" (HDR, Docent) from the University Pierre et Marie Curie in Paris and from the Vienna University of Technology in 2011. She has directed 4 PhD students, coordinated several national Austrian projects and participated in European projects.

She is coordinating the FLAG-ERA ERA-NET.



QuantERA explained by Sylwia Kostka





https://quantera.eu/

Mrs. Sylwia Kostka is the Programme Coordinator of the QuantERA ERA-NET in Quantum Technologies. Sylwia develops strategic multilateral cooperation programmes at the National Science Centre, Poland (NCN), where she works as a Deputy Head of the International Cooperation Department.

She has represented the NCN in a number of ERA-NETs and JPI's, as well as in various research policy bodies incl. FET Flagships Board of Funders.

She holds Executive Master of Business Administration (MBA) from Cracow University of Technology, MA in International Cooperation and European Studies from the Jagiellonian University and MA in Development Cooperation Policy and Management from the SWPS University.



The ApresSF project explained by Łukasz Rudnicki



Mr. Łukasz Rudnicki is a physicist working in the field of quantum information, with emphasis on quantum optics and open system dynamics.

Currently, Łukasz is a group leader at International Centre for Theory of Quantum Technologies (ICTQT) and deputy director of National Quantum Information Centre, both located in Gdańsk.

He is a coordinator of QuantERA <u>ApresSF</u> project and a full partner in the Stormytune EU project within FET Open. Łukasz also represents Poland in Quantum Community Network, an advisory body of the Quantum Flagship.



www.fetfx.eu

EIC opportunities explained by Marta Calderaro



Mrs. Marta Calderaro joined APRE in 2013, where she has specialised in innovation policies related to Emerging Technologies, with specific focus on ICTs. Since 2015, she is appointed as H2020 National Contact Point in ICT and Future and Emerging Technologies (FET).

She is the coordinator of the FETFX project, and previously involved in the EFFECT - H2020 FET Open project, focussing on policy dialogue, communication and stakeholder engagement activities. She is also part of the Coordination Team of the Access2EIC project, the European NCP Network dedicated to the European Innovation Council.

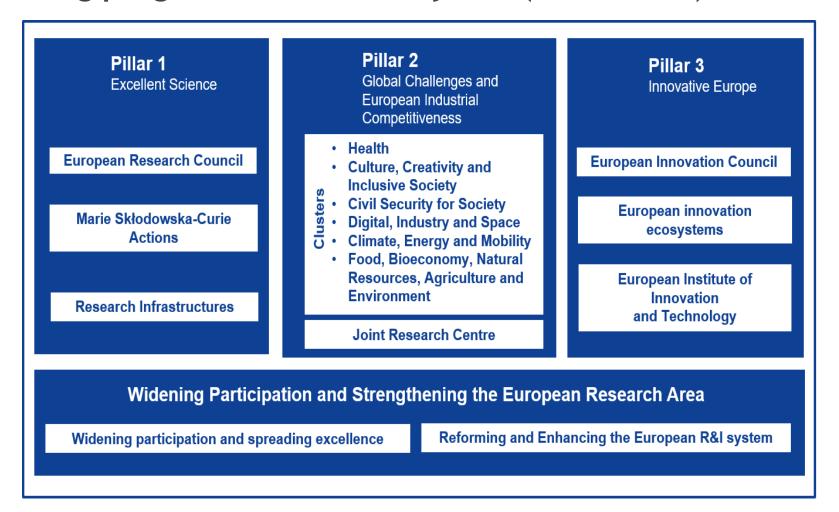


www.fetfx.eu

THE EIC EVOLUTION



Horizon Europe: the € 94 billion research and innovation funding programme for seven years (2021-2027)





www.fetfx.eu

10

Pillar 3 - INNOVATIVE EUROPE

stimulating market-creating breakthroughs and ecosystems conducive to innovation

European Innovation Council

Support to innovations with breakthrough and market creating potential

European innovation ecosystems

Connecting with regional and national innovation actors

Institute of Innovation and Technology (EIT)

Bringing key actors (research, education and business) together around a common goal for nurturing innovation



The European Innovation Council

One stop shop for breakthrough & disruptive innovators

Open to all innovators, in any field, at any time

Highest potential innovators selected on basis of ideas and team

Agile funding from idea to investment

Pathfinder grants for advanced research on emerging technologies
Accelerator funding for innovative start-ups
(<€2.5 million grant, <€15 million equity)
Crowding in private investment (VC, Invest EU)

Building ecosystems and communities

Access to mentoring and advisory services and to knowledge partners (e.g EIT)

Expert Programme Managers to engage with projects and communities

Prizes for breakthrough technologies



www.fetfx.eu 12

EIC pilot phase in 2018- 2020

- ✓ Increased budget of €1 billion (2019) and inclusion of "FET Pro-active" in pilot EIC Pathfinder, with 6 target technologies + Transition activities
- **✓** Recruitment of first EIC programme managers
- ✓ EIC Advisory Board to present Vision for "full EIC" and roadmap for implementation
- ✓ Introduction of interviews with juries of experienced innovators & investors to select SMEs for funding
- "Green Deal" EIC accelerator (€300m, applications by 19 May)
- ✓ **Pilot for woman innovators** (startups with female CEO) at least 25% at final interview phase.
- ✓ **Pilots with EIT KICs** to test collaboration mechanisms with EIC
- ✓ Establishment of EIC Fund and first wave of equity investments/ coinvestments



www.fetfx.eu

13



European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors (70% of the budget earmarked for SMEs)

European Innovation Council – a one-stop-shop Helping innovators create markets of the future, leverage private finance, scale up their companies, Innovation centric, risk taking & agile, proactive management and follow up

Two complementary instruments bridging the gap from idea to investable project

Pathfinder: grants
(from early technology to pre- commercial)

Accelerator:

grants only & blended finance (from pre-commercial to market & scale-up)



Pathfinder and Accelerator common elements in Horizon Europe

- Focus on breakthrough and disruptive innovations, including social, that have the potential to create new markets;
- ➤ Be mainly bottom-up, open to innovations from all fields of science, technology and applications in any sector;
- Innovations that cut across different scientific, technological (e.g. combining physical and digital) fields and sectors will be encouraged;



Pathfinder and Accelerator common elements in Horizon Europe

- They will be centred on innovators, simplifying procedures and administrative requirements, making use of interviews to help assess applications, and ensuring fast decision making;
- They will support high-risk innovations where the risks, whether technological/market/regulatory, cannot be borne by the market alone or via Fin.Instr. (InvestEU)
- They will be managed pro-actively with milestones to gauge progress and the possibility to reorient projects where needed.



17

EIC Main Instruments

Pathfinder

- Open (Bottom Up: long-term vision; ambitious science-towards-technology breakthrough; High-risk/ high-gain research approach)
- Challenges (Top Down: Digital, Health and Biotech, Energy and Environment)

Transition

- Open (Bottom Up: Key Pathways: Transition to innovation, to the market or to entrepreneurship)
- Challenges (Top Down: NA)

Accelerator

- Open (Bottom Up: To scale up high impact innovations with the potential to create new markets or disrupt existing ones)
- Challenges (Top Down: European Ambitions Digital, GD, medical techs)

Prizes

• 1. EU Prize for Women Innovators; 2. The European Capital of Innovation Awards (iCapital); 3. The European Innovation Procurement Awards; 4. The Social Innovation Award



www.fetfx.eu

EIC Key Novel Elements & Concepts



EIC Programme Managers
EIC Portfolios
EIC Fund - (Accelerator)
EIC Marketplace



The proactive management

"Implementing the pro-active management of the EIC pathfinder for breakthrough technologies & innovations".

"Programme creation", on the conception, validation and approval process of challenge-driven programmes, including recommendations for the evaluation and selection of projects for the portfolio of a challengedriven programme.

"Active portfolio management", as a decisive way to increase the probability of success of a portfolio of high-risk projects.

"Transition activities", focuses on how to substantially improve and accelerate the transition of a project and portfolio towards having socioeconomic impact.









Overseas Trade Fairs programme



Coaching

Corporate partnership programme



new



GHG neutrality programme







Procurement partnership programme



Investor partnership programme





Early stage programme



EIC Innovation Training Workshop for Pathfinder 3.0

- Focus on potential commercialisation of EIC Pathfinder projects outcomes and maximise their value proposition.
- Open to EIC Pathfinder beneficiaries (FETOpen & FET-Proactive)
- Deadline for application: 28th November
- Dates: 1st- 2nd December 2020

https://community-smei.easme-web.eu/articles/open-call-eic-innovationtraining-workshop-pathfinder-30-capitalize-your-innovation



CHIST-ERA INITIATIVE



22





CHIST-ERA The FET Proactive ERA-NET

FETFX Webinar November 19, 2020

Mathieu Girerd, French National Research Agency mathieu.girerd@anr.fr





CHIST-ERA Consortium

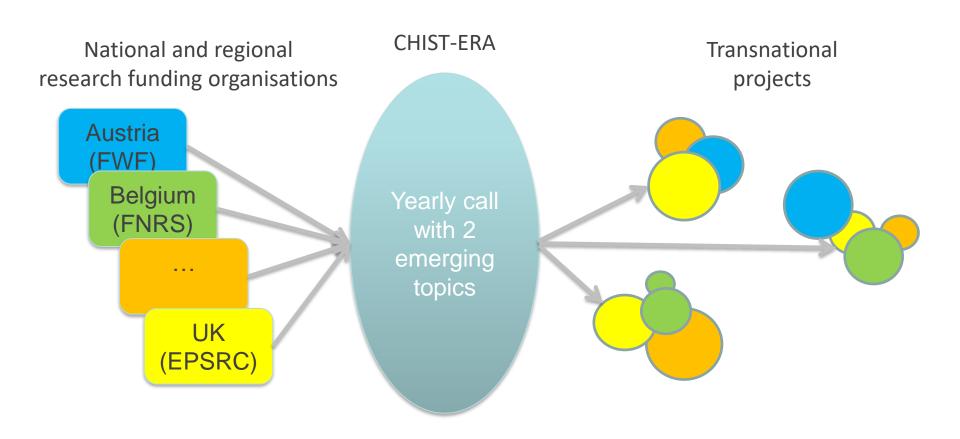
28 research funding organisations from 24 European countries + Québec and including 12 Widening Countries willing to build a common framework

- ✓ Support to joint research activities
 - ✓ Sustainable co-operation





Joint Funding Instrument





Targeted Research

Smarter, Safer, Leaner... ICT

- CHIST-ERA is the ERA-NET of the <u>FET</u><u>Proactive</u> programme
- Support to basic research for future and emerging ICT (FET-like research)
 - ✓ Long term interdisciplinary research
 - ✓ Risky with potential high impact
 - ✓ Favour novelty

CHIST-ERA promotes

- Participation of the Widening Countries
- Open access to publications and research data

ICT & ICTbased

CHIST-ERA

Horizon 2020 FET programme



Platform for Future and Emerging ICT

- Scope of CHIST-ERA is broad: ICT and ICT-related domains
- Two topics selected every year
 - ✓ October/November (year N): Consultation for topic ideas open to CHIST-ERA partners, Scientific Advisory Board and broader research community
 - ✓ February (year N+1): Topics selection and publication at www.chistera.eu
 - ✓ May/June: Open conference to refine the topics description
 - ✓ September/October: Call publication
- Call 2021 topics consultation open until 23/11/2020
 - ✓ https://www.chistera.eu/open-consultation-call-2021-topics



Calls Topics

Call	Topics
2020	Advanced Brain-Computer Interactions for Novel Interactions (BCI)
	Towards Sustainable ICT (S-ICT)
2019	Explainable Machine Learning-based Artificial Intelligence
	Novel Computational Approaches for Environmental Sustainability
2018	Analog Computing for Artificial Intelligence (ACAI)
	Smart Distribution of Computing in Dynamic Networks (SDCDN)
2017	Object recognition and manipulation by robots: Data sharing and experiment reproducibility (ORMR)
	Big data and process modelling for smart industry (BDSI)
2016	Lifelong Learning for Intelligent Systems (LLIS)
	Visual Analytics for Decision Making under Uncertainty (VADMU)
2015	User-Centric Security, Privacy and Trust in the Internet of Things (SPTIoT)
	Terahertz Band for Next-Generation Mobile Communication Systems (TMCS)
2014	Resilient Trustworthy Cyber-Physical systems (RTCPS)
	Human Language Understanding: Grounding Language Learning (HLU)
2013	Adaptive Machines in Complex Environments (AMCE)
	Heterogeneous Distributed Computing (HDC)
2012	Intelligent User Interfaces (IUI)
	Context- and Content-Adaptive Communication Networks (C3N)
2011	From Data to New Knowledge (D2K)
	Green ICT, towards Zero-Power ICT (G-ICT)
2010	Quantum Information Foundations and Technologies (QIFT)
	Beyond Autonomic Systems - the Challenge of Consciousness (BASCC)



Call Success Rate





New Funding Activities

- ☐ Call Open Science (open to all disciplines)
 - ✓ Topic: Research Practices and Open Research Data
 - Challenges: Structuring, accessibility, reuse, interoperability, citation, sharing and openness of research data
 - Objective: Accelerate the development of tools, standards or services to support the application of the Open Science principles to research data
 - ✓ Expected publication date: 1st semester of 2020
- Challenge Call (in ICT or ICT-related topic)
 - ✓ Call format: Call targets a focused objective, selected projects propose different approaches, their progress is assessed via evaluation campaigns
 - ✓ Open consultation for topic ideas until 23/11/2020 at https://www.chistera.eu/open-consultation-call-2021-topics
 - ✓ Expected publication date: Fall of 2021



CHIST-ERA & You

- CHIST-ERA interacts with the research community in three manners. You can
 - ✓ Propose call topics to CHIST-ERA
 - Call 2021: https://www.chistera.eu/open-consultation-call-2021-topics
 - Challenge call: https://www.chistera.eu/open-consultation-challenge-call
 - ✓ Apply to a CHIST-ERA call
 - Call 2020 pre-announcement expected in two weeks
 - ✓ Apply as evaluator to a CHIST-ERA call
 - Call 2020: https://www.chistera.eu/apply-evaluator
 - Call Open Science: https://www.chistera.eu/apply-evaluator



CHIST-ERA Contacts



chistera@anr.fr



@chistera_net



www.chistera.eu





Thank You for your Attention!



QUANTERA INITIATIVE



FETFX Webinar 19 November 2020

Sylwia Kostka, National Science Centre (NCN)

QuantERA Programme Coordinator





This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 731473.



QuantERA & QuantERA II: Basic information

QuantERAI

Project Information

QuantERA

Grant agreement ID: 731473

Project website 2

Status

Ongoing project

Start date
1 November 2016

End date 31 October 2022

Funded under H2020-EU.1.2.2.

Overall budget € 39 815 995,80

EU contribution € 11 510 008,29

Coordinated by NARODOWE CENTRUM NAUKI

Poland

QuantERA II



Call: H2020-FETFLAG-2020-

02

Type of Action: ERA-NET-

Cofund

Acronym: QuantERA II

Current Phase: Grant

preparation

Number: 101017733

Duration: 60 months

Start Date:

Estimated Project Cost:

€45,454,561.25

Requested EU

Contribution:

€15,000,000.00





QuantERA Goals

- Network European research funders in QT
- > Fund excellent transnational research projects in QT
- Pool national and EU resources through co-fund mechanism
- Map developments in public policies in QT Europe
- > **Spread** excellence across the ERA





QuantERA Strategic Advisory Board



Igor Jex Czech Technical University in Prague



Sir Peter L. Knight, Imperial College





Gerd Leuchs Max Planck Society





Stefanie Barz University of Stuttgart



Jiri Vala Maynooth University

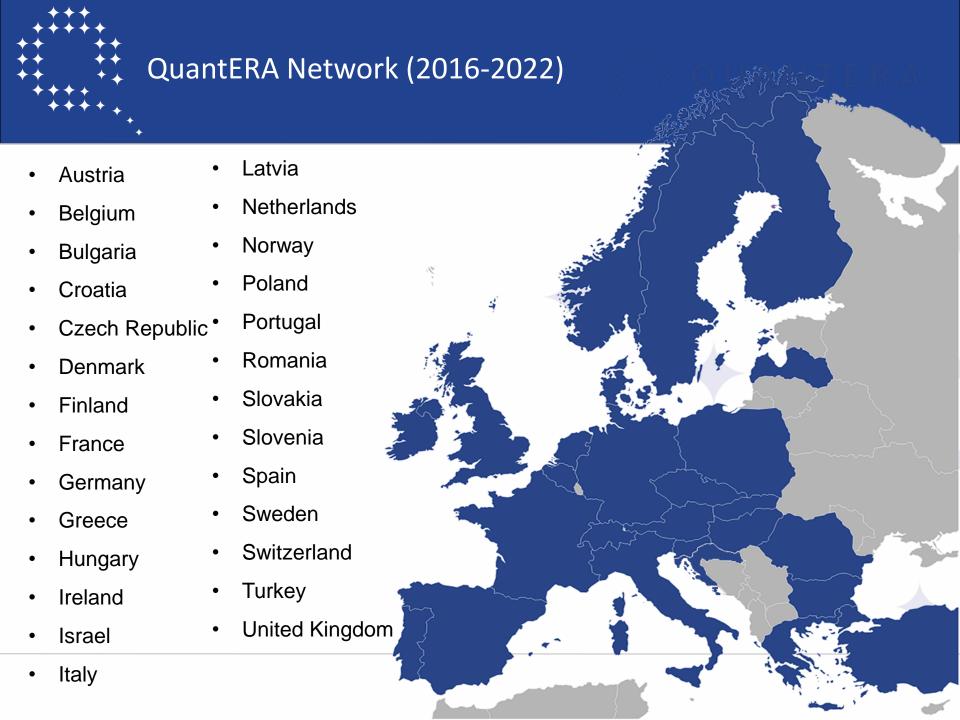


Marek Żukowski Uniwersytet Gdański

Yehuda Naveh IBM Research Israel



Thorsten Schumm Vienna University of Technology



QuantERA Calls 2017 & 2019

EUR 45M

38 transnational research projects

193 research teams from 25 countries

- > Quantum communication
- > Quantum simulation
- > Quantum computing
- Quantum information sciences
- Quantum metrology sensing & imaging

Call 2017

221 pre-proposals
91 full proposals

26 selected projects

Call 2019

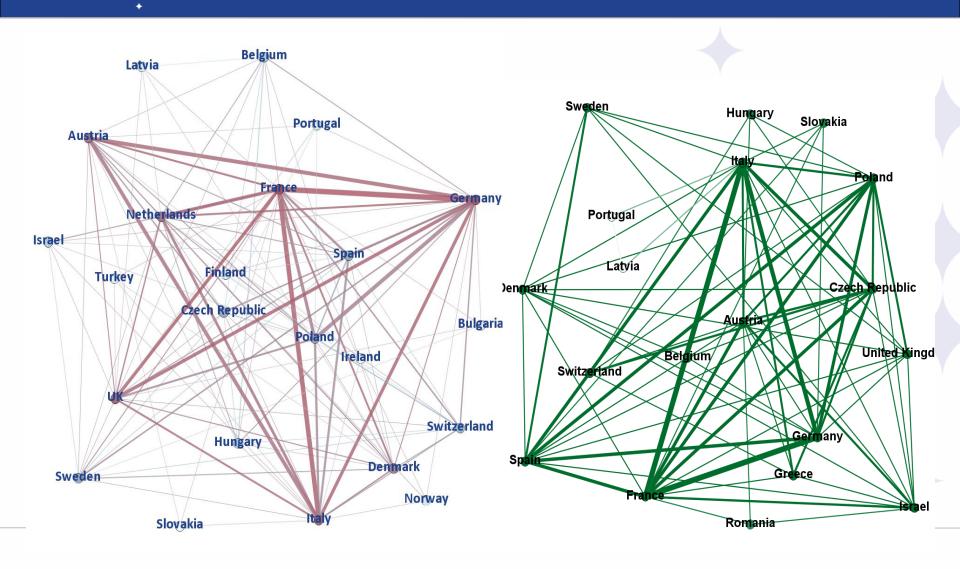
85 pre-proposals

56 full proposals

12 selected projects



QuantERA Projects: ca.200 research teams from 25 countries





QuantERA Call 2017 Funded Projects

1. CEBBEC Controlling EPR and Bell correlations in atomic Bose-Einstein condensates 2. CUSPIDOR CMOS Compatible Single Photon Sources based on SiGe Quantum Dots 3. ERyQSenS Entangled Rydberg matter for quantum sensing and simulations 4. HiPhoP High dimensional quantum Photonic Platform **5. HYPER-U-P-S** Hyper-entanglement from ultra-bright photon pair sources Polariton lattices: a solid-state platform for quantum simulations 6. InterPol of correlated and topological states 7. MICROSENS Microwave quantum sensing with diamond color centers Spin-based nanolytics – Turning today's quantum technology 8. NanoSpin research frontier into tomorrow's diagnostic devices 9. NAQUAS Non-equilibrium dynamics in Atomic systems for QUantum Simulation 10. ORQUID ORganic QUantum Integrated Devices Scalable Electrically Readout Diamond Spin Qubit Technology 11. Q_Magine for Single Molecule Quantum Imagers



QuantERA Call 2017 Funded Projects

12. QCDA	Quantum Code Design and Architectures
13. Q-Clocks	Cavity-Enhanced Quantum Optical Clocks
14. QTFLAG	Quantum Technologies For LAttice Gauge theories
15. QuantAlgo	Quantum algorithms and applications
16. QUANTOX	QUANtum Technologies with 2D-Oxides
17. QuaSeRT	Optomechanical quantum sensors at room temperature
18. QuompleX	Quantum Information Processing with Complex Media
19. RouTe	Towards Room Temperature Quantum Technologies
20. Si QuBus	Long-range quantum bus for electron spin qubits in silicon
21. SQUARE	Silicon Photonics for Quantum Fibre Networks
22. SUMO	Scaling Up quantum computation with MOlecular spins
23. SuperTop	Topologically protected states in double nanowire
	superconductor hybrids
24. TAOIL	Trapped Atom Interferometers in Optical Lattices
25. TheBlinQC	Theory Blind Quantum Control
26. Topoquant	2D hybrid materials as a platform for topological quantum
	computing.



QuantERA Call 2019 Funded Projects

	ApresSF C'MON-QSEN	Application-ready superresolution in space and frequency IS! Continuously Monitored Quantum Sensors: Smart Tools and Applications
3.	eDICT	Experimentally-oriented Device Independent CrypTography
4.	MAQS	Magnetic-Atom Quantum Simulator
5 .	PACE-IN	Photon-Atom Cooperative Effects at Interfaces
6.	Qu3D	Quantum 3D imaging at high speed and high resolution
7.	QuantHEP	Quantum Computing Solutions for High-Energy Physics
8.	QuCoS	Quantum Computation with Schrödinger cat states
9.	QuICHE	Quantum information and communication with high-dimensional encoding
10	SECRET	SECuRe quantum communication based on Energy-Time/time- bin entanglement
11.	ShoQC	Short-Range Optical Quantum Connections
12	SiUCs	Superinductor-based Quantum Technologies with Ultrastrong Couplings



Contact your respective Research Funding Organisation







QuantERA II (*In statu nascendi)

QuantERA II will start in January 2021

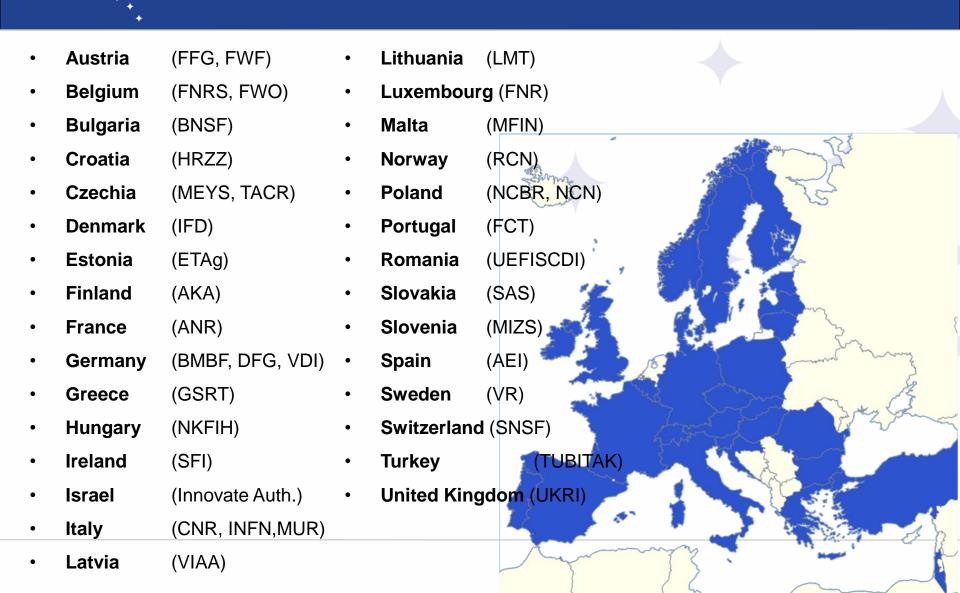
- > The next QuantERA Co-funded Call is planned to be launched in March 2021
- The Call pre-announcement will be available in January 2021

Additional activities:

- Exploring the possibility of additional joint funding activities
- Cooperation with QT Flagship and other stakeholders in QT
- Spreading research excellence across ERA
- Mapping of public policies in QT research funding



QuantERA II Network (2021-2026)



Coordinator: National Science Centre, Poland

Prof. Konrad Banaszek, Scientific Coordinator Sylwia.Kostka@ncn.gov.pl, Programme Coordinator Agata.Ormanin@ncn.gov.pl, QuantERA Officer



FLAG-ERA INITIATIVE





FLAG-ERA

The ERA-Net for supporting the FET Flagships

www.flagera.eu

Coordination: marie-alexandra.neouze@anr.fr





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





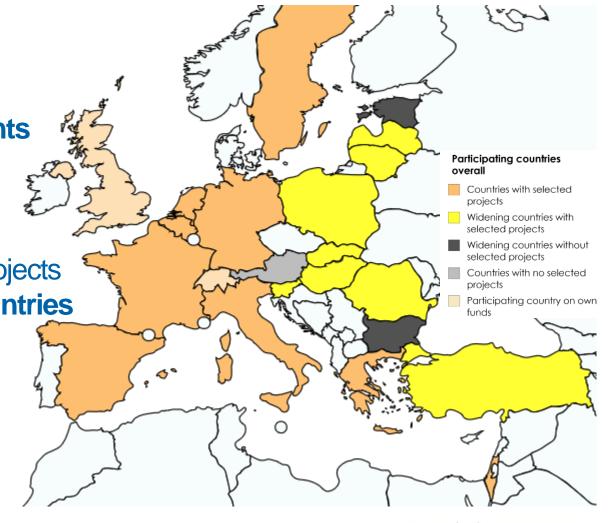
Outreach



27% success rate

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

Effective budget 42,5 M€





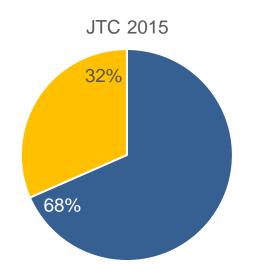
Transnational calls Graphene & HBP

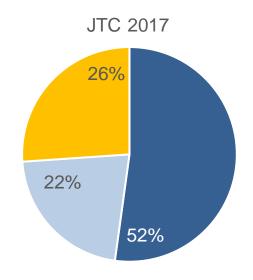


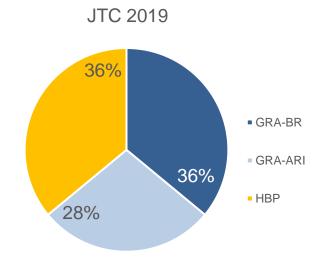


Statistics

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%





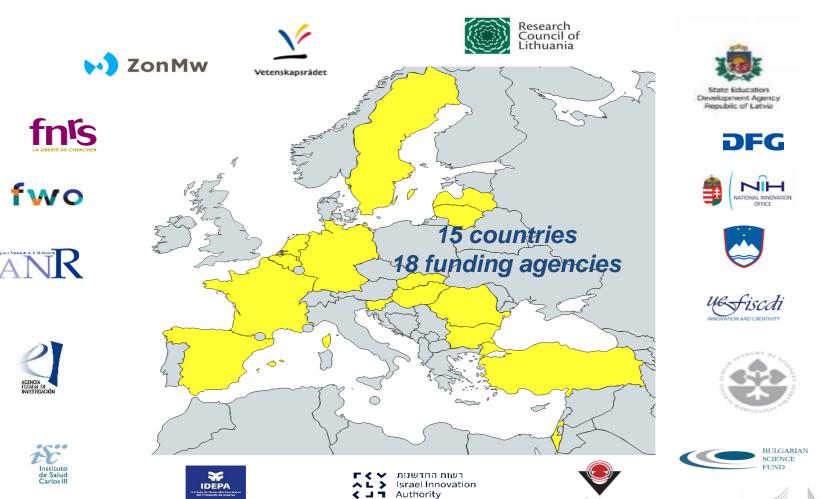








<u>www.flagera.eu</u> Announcement foreseen on December the 1st 2020





TÜBİTAK







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!







Country		Funding agency	Graphene Basic	Graphene Applied	НВР
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	Innovation 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			



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)







<u>www.flagera.eu</u> Announcement foreseen on December the 1st 2020





TÜBİTAK

A SUCCESS STORY

APRESF PROJECT







FOR THEORY OF QUANTUM TECHNOLOGIES

Łukasz Rudnicki









The 'International Centre for Theory of Quantum Technologies' project is carried out within the International Research Agendas Programme of the Foundation for Polish Science co-financed by the European Union from the funds of the Smart Growth Operational Programme, axis IV: Increasing the research potential (Measure 4.3).

Application-ready superresolution in space and frequency

ApresSF CONSORTIUM:

- Coordinator: Łukasz Rudnicki (University of Gdańsk, PL)
- Christine Silberhorn (University of Paderborn, DE)
- Zdeněk Hradil (Palacky University, CZ)
- Luis Lorenzo Sanchez-Soto (Universidad Complutense, ES)
- Nicolas Treps (Sorbonne Université, FR)
- Cailabs (FR)







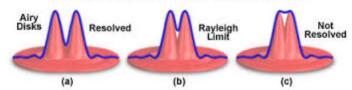




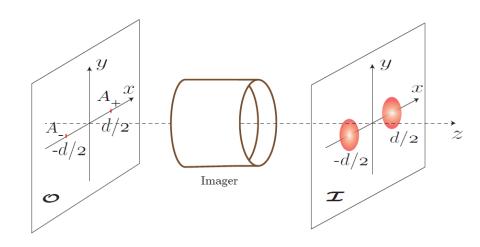


Diffraction limit

Airy Disk Separation and the Rayleigh Criterion



Resolution as an estimation problem







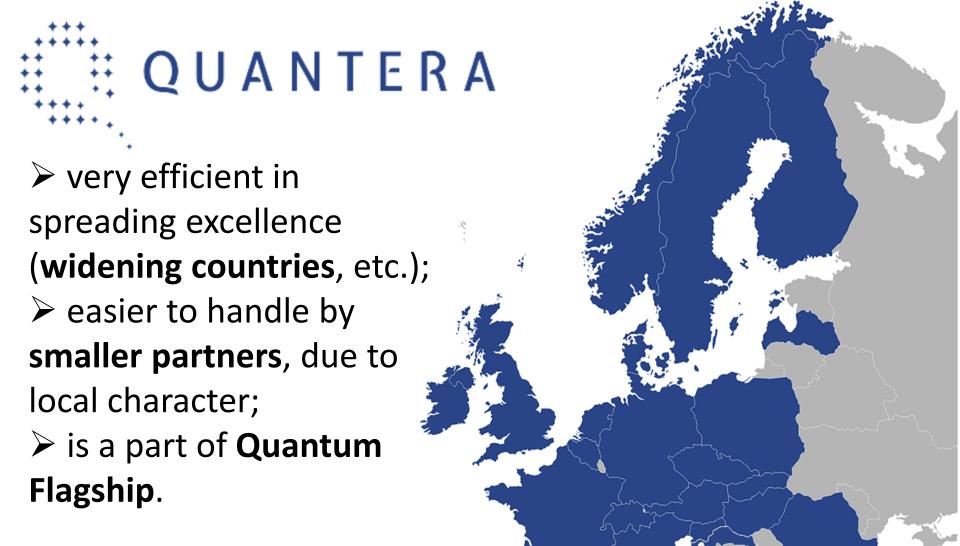








Palacký University Olomouc





The take-home message

Successful projects are solid and **focused**

THE ACCESS2EIC PROJECT





Access2EIC the EIC and A2RF NCP network

How can we help you to access the EIC?

November 2020



What is a National Contact Point (NCP) for?

National structures recognized by the EU that:

Raise awareness on H2020 opportunities

Organize **training** sessions

Offer assistance on **proposal writing**

Support in **partner search** (when relevant)

Across the different H2020 parts.



There are 22 official functions per country in:

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp



What is the ACCESS2EIC project?

Transnational CSA project awarded to 15 NCPs host organizations (on behalf of the entire EIC & A2RF NCP networks) to:

- **Identify and share good practices** in how to support applicants to access the EIC and A2RF programmes in H2020
- Develop together useful tools for participants that may simplify their access to EIC Pilot calls

 Organize and deliver training for the whole EIC & A2RF NCP networks community in relevant areas



Access2EIC Consortium

Participant No	Participant organisation name	Country
1 (Coordinator)	APRE	Italy
2	CDTI	Spain
3	FFG	Austria
4	IPPT PAN	Poland
5	IIA	Israel
6	DLR	Germany
7	INNOVATION NORWAY	Norway
8	BPIFRANCE	France
9	FORTH	Greece
10	ENTERPRISE IRELAND	Ireland
11	ANI	Portugal
12	GIS TF	Bulgaria
13	CVTISR	Slovakia
14	.4 NKFIH Hungary	
15 TC CAS		Czech Republic

15 PARTNERS

+

ASSOCIATED PARTNERS

(all FET, SME & ARF NCPs)



What tools can we offer you?

businesses

EIC Accelerator EIC Pathfinder EIC T2I **Annotated template** InnovFIN & **Factsheet Factsheet** InvestEU **EIC Accelerator Annotated** (Q2 2020) Q1 2021 guide pitchdeck **TRL6-TRL8** TRL9 TRL4-TRL5 **TRL1-TRL3 InnovFIN EIC Pathfinder** EIC T2I **EIC** Accelerator (blended finance) InvestEU **Financial Grant Grant + equity** instruments **MRL7-MRL8 MRLO-MRL1 MRL2-MRL3** MRL4 – MRL6 MRL9 **Toolbox for** Due diligence dashboard **SME R&D** based

Toolbox

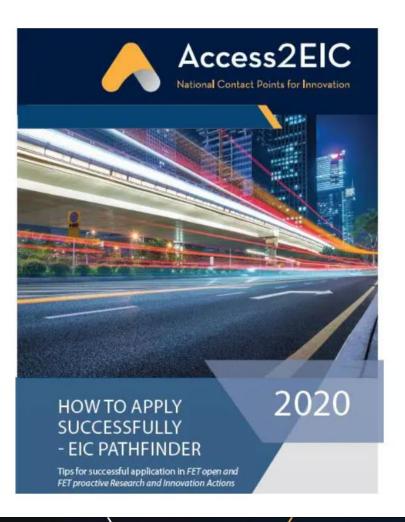
Annotated Annex IV

(Q4 2020)



Example of tools

The Access2EIC Pathfinder guide



- The Access2EIC Tips for successful application
 - **EIC Pathfinder** is a guide created to assist organizations who are looking to submit a proposal to the **EIC Pathfinder FET Open and Proactive** calls in 2020, and receive useful information and tips for the application.
- The guide will identify key characteristics and patterns of FET Open und FET Proactive projects and help applicants better understand the requirements and qualifications and thus succeed in receiving the grant. The guide should be useful for any consortia gathering for a joint submission of the EIC Pathfinder FET proposal.



Example of tools

Access2EIC tools: From technology to business

Focus on **businesses coming out from research** (FET experienced) in order to help to frame better their way to market.

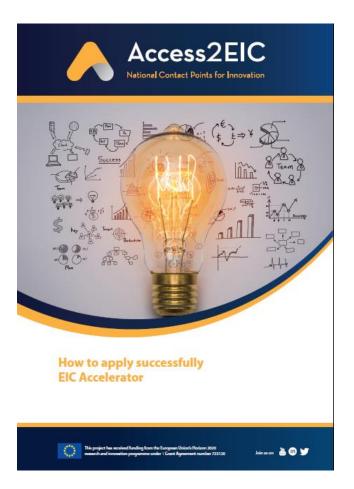
Three tools developed as part of this toolset:

- The **business glossary**, that defines the key business concepts in a number of dimensions (based on the Business Model Canvas frame) according to the different matureness levels of a business.
- The "**TB.map tool**" that helps to map the competitive landscape in terms of TRL (technology readiness level) and BRL (Business readiness level)
- The "**Bsize tool**" that helps to estimate the potential size of a business opportunity in a given market.





Example of tools



The EIC Accelerator Annotated template

- Official updated template.
- New evaluation criteria included.
- Comments from evaluators
- Recommendations from NCPs.

Based on remote evaluators, winning SME and start ups proposals and NCPs experiences



What else can ACCESS2EIC offer you?



Training

Onsite Training for NCPs

Online Training for NCPs and participants

Cousera selection for horizontal training

For "Seal of Excellence" holders only

Periodic e-pitches through **Euroquity**

Pitch contest back to back to EU events

Pitching to investors





Events

Online webinars on EIC with the COM

Onsite events on EIC issues with the COM

Accesible via: https://access2eic.eu/eventi/



Useful links

- EIC Wizard via EIC website
- EIC Work Programme 2020 and EIC FAQ
- National Contact Points (NCPs)
- Access2EIC NCP Network
- F&T Portal <u>Partner Search</u>
- List of all NCP networks' <u>Partner Search tools</u>
- Enterprise Europe Network

Follow A2EIC on



@Access2EIC



Access2EIC



Access2EIC

THE FETFX PROJECT



About FETFX

FET-Open Coordination and Support Action on FET communication and outreach

From 01/01/2019 to 30/06/2021











FETFX Objectives

Communicate FET & EIC

Enhance visibility and impact of FET research among a variety of actors - researchers, policy makers, investors, the general public - via public communication and a mix of tools and media

Engage with FET & EIC

Stimulate debate and collaboration among multiple stakeholders through dedicated community building and engagement activities - workshops for policy makers, major events and initiatives such as Journalist in the Lab, Future Tech Week, FETFX Pills, webinars and furthermore...

Free of charge



EFFECT Project Baseline

Online engagement: more than 250,000 people reached and more than 23,000 online users engaged

Offline engagement: More than 200 individuals participating in EFFECT events

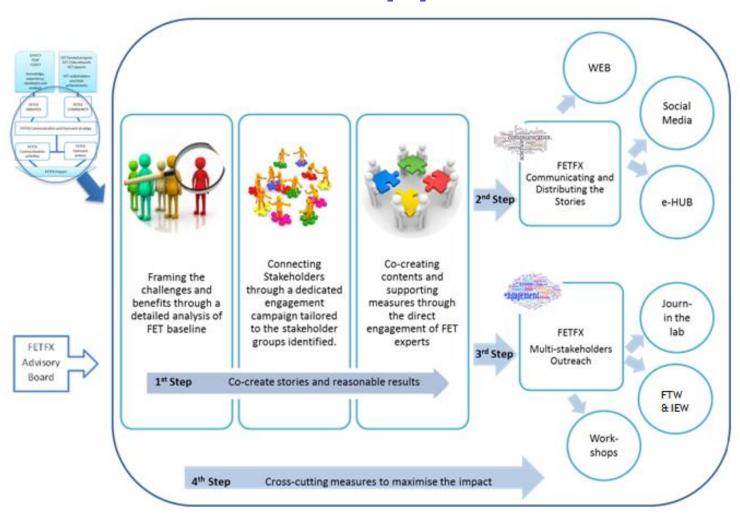
FET R&I community: EFFECT reached 86 FET funded projects







FETFX Approach





Transition to EIC Pathfinder

Dedicated Editorial Production

Support on Key messages identified in EC communication channels (e.g. EIC dedicated webpage)

Connection among Pathfinder and Accelerator stakeholders





An inclusive Information Hub

FETFX contents

FET project news

Events

News on the programme

FETFX NEWS



The Future is Now: Taking Snapshots of Tomorrow with the Future Tech Week More than 80 Future and Emerging Technologies projects showcased their vision of the future across Europe from September 23 to 29.

Wins and Risks in Research and Innovation
Two Future and Emerging
Technologies (FET) projects, Lumiblast and FutureAgriculture, shaped up well at the 2019 Innovation Radar Awards, landing a category winner prize.





Publishing vs. Patenting isten to our recorded webinar where we examine together with the European IPR Helpdesk the two flerent routs related to dissemination and exploitation of project results.

STORIES in FETFX

Exploring the Unexpected, A Chat rith Paolo Dario, World-Renowned Ploneer of Biorobotics Find out the story behind the bionic nand with biorobotics pioneer Paolo



FET PROJECT NEWS

Closing the gap between research and innovation Read the Roundtable report on this year's Research&Innovation (R&I) Days



New Partnership Between JPI CH and Time Machine JPI CH and Time Machine join forces for a research and innovation partnership promoting the future of Cultural Heritage

MIND THE GAP





RegMed Forum 2019
RESTORE FET project in the organization of the RegMed Forum 2019 for a more patient oriented perspective in the implementation of Advanced Therapies

BioWings presents: "Fly over BtoWings" This episode was shot in Via Panisperna (Rome, Italy): the same spot where a group of young scientists (led by Enrico Fermi) made the famous discovery of slow neutrons, a precursor



FET PROJECT EVENTS



Time Machine Conference: Do we have enough data about the past to create a time machine?

November 21, 2019

Paris, France





November 28, 2019



Training Programme for Exploitation of Research Results - Identifying Business Opportunities through the Lean Startup Method December 2-3, 2019 Stuttgart, Germany



NEWS on FET



Genuine Innovation
The FET innovation LaunchPed seeks
to turn FET & EIC Pattrifinder funded
projects' results into societal reconomic



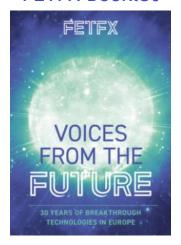




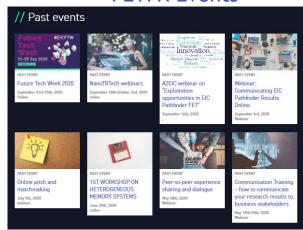
www.fetfx.eu 85

EIC dedicated production

FETFX Booklet



FETFX Events



FETFX News



FETFX Pills



FETFX Resources





www.fetfx.eu 86

The FETFX communication hub

// Today's featured stories



FET People

How can visionary science bring innovation into society?

CULTURE & SOCIETY

Nine Future and Emerging Technologies experts from the academia, the industry and the government answer the big question raised during the Innovative Enterprise Week Bucharest.

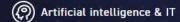


FET PROJECTS

Hi-tech and high-risk, FET research goes beyond what we know. Breaking down boundaries and developing fresh-thinking, to revolutionise the way we live our lives. Europe's passionate about it and supports brilliant researchers with the resources they need.

// Browse funded research projects

FILTER BY THEME



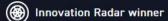




Energy & Environment

Nanotech & Materials

FILTER BY RESULT



Registered patents

Prototyping phase

(A) Start-up/spin-off launched

ABIOMATER

Building the next class of metamaterials that will address the present issues in our medical devices and implants

NANOTECH & MATERIALS

AMECRYS

Cutting time and operation costs of biopharmaceuticals by revolutionising their manufacturing process

BIOTECH & HEALTH

ASSISIbf

Finding new ways to protect endangered species and the environment by integrating artificial intelligencebased robotic animals

ARTIFICIAL INTELLIGENCE & IT ENERGY & ENVIRONMENT

AMADEUS

Creating a new set of hybrid photovoltaic devices which are able to meet the ultra-high temperature capacity operated in latent heat thermal storage (LHTES)

NANOTECH & MATERIALS

ARTIMATTER

Creating thin layers of graphene as building blocks for new types of materials

NANOTECH & MATERIALS

Brain Bow

Restoring neuronal connections of patients that suffered brain damage due to accidents or strokes

BIOTECH & HEALTH

FET KNOWLEDGE HUB

Gain access to every piece of information regarding FET as you browse through our collection of resources produced, collected and curated by FETFX.

// Browse all FET resources

FILTER BY TYPE

() Reports

) Guides

) Event proceedings

) Dissemination materials

) Data sets

100 Radical Innovation Breakthroughs for the future

How do we see European innovation in the near future? This report gives you a broad idea on what to expect via 100 radical innovation breakthroughs.

REPORTS // Researchers, Innovators/investors, Policy makers // August, 6th 2019



Governing Missions: Governing Missions in the European Union

Mariana Mazzucato lists down 17 recommendations the European Commission must embrace to ensure the success of Horizon Europe's research missions.

GUIDES // Researchers, Innovators/investors, Policy makers // July, 15th 2019

FILTER BY TARGET AUDIENCE

() Researchers

Innovators/investors

Policy makers



Mission-oriented research and innovation policy – A RISE perspective

In this report, RISE, or the independent Research Innovation and Science Expert high-level group, wrote how mission-oriented Research and Innovation policy can work at a European level.

GUIDES // Researchers, Policy makers // June, 28th 2019

The FETFX support...



FETFX is now accepting regarding FET projects' the market and news rela

bimonthly publication info@fetfx.eu



YOUR NEWS in our e-Magazine

Please fill in the below form and send it with if possible a PICTURE and/or a LOGO to illustrate the article. Before drafting it, please have a look on our editorial lines below.

FOR A NEWS - A STORY / KEY INFORMATION NEEDED

News title	Please fill in:
Your Text: (MAX +/- 200 to :	300 words)
Website link(s):	Please fill in:
If no link the source(s) of the	Please fill in:
If no link the source(s) of the news	

FOR AN EVENT / KEY INFORMATION NEEDED

Event title:	Please fill in:
Event start/end date/period:	Please fill in:
Where? Venue	Please fill in:
Your Text: (MAX +/- 200 to	300 words)
Organised by:	Please fill in:
Co-organised/supported by:	Please fill in: Please fill in:
Co-organised/supported by: Website link(s):	
Co-organised/supported by:	Please fill in:

Before the event: what would be interesting to know is details of the abjectives and the topics may be a After the event: details of the topics raised and if relevant, the possible outcomes resulting to this event.

EDITORIAL LINE

The text should be NON-COMMERCIAL information about cooperation, events, FET stories, case studies etc. The text should follow a "journalistic" style and avoid using terms such as "we/our" but use "the organization/their"

FET funded projects related news European Innovation Council related news

Covering the following topics:

- Policy (non-controversial, no position paper).
- Business cooperation Technology transfer cooperation Research collaboration

- Below listed are some examples of news that would be relevant for the newsletter:

 Cooperation (business, R&D-innovation or interdisciplinary research) raising from a FET funded project.
- Information about the FET funded project that would be of interest to EU readers (e.g. relevant result, event)
 Support for European FET funded projects

Support for European PT. Infrased prospects
 Information about high level policiation leg., Nature, Science) or Prize
 For case or success solvice: what would be interesting to insee or elected at the percess/intrategy followed by the EET project in
 for case or success solvice: what would be interesting to insee or elected at the percess/intrategy followed by the EET project in
 for case or success solvice in the success of collections of the success of t





YOUR NEWS in our e-Magazine

- . Call for texts: The FETFX project is open to publish the news sent by its network of potential contributors
- . Deadline: the last day for the contributors to send the material (texts and pictures) will be 15 days prior the bimonthly publication (e.g. 15th May, 15th July, 15th Sept. and 15th November

FETFX project has received funding from the European Union's Harizon 2020 research and Innovation gapgaga under grant agreement No 824753.

- haues: The e-Magazine will be published on a bi-monthly basis. Four editions are engineed in 2019 (June August, October and December).
- Document online on: http://www.fetfx.eu/out-of-the-lab-resources

For any additional queries, feel free to contact us

Many thanks for your cooperation and best regards

FETEX Project Coordinator: Marta Calderaro TEL +39 6 4893 9993 / info@fetfx.eu

CSAs supporting FET R&I community



Establishing a FET Observatory for early trends, project building and social responsibility







Supporting FET Projects to increase their influence and impact among society

www.fetfx.eu



Identifying FET innovation opportunities and accessing respective markets

www.fetbriefing.eu

Your NCP for Innovation under European Innovation Council

www.access2eic.eu

National Contact Points for Horizon 2020

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp



Follow us...



www.fetfx.eu



@FETFX_EU

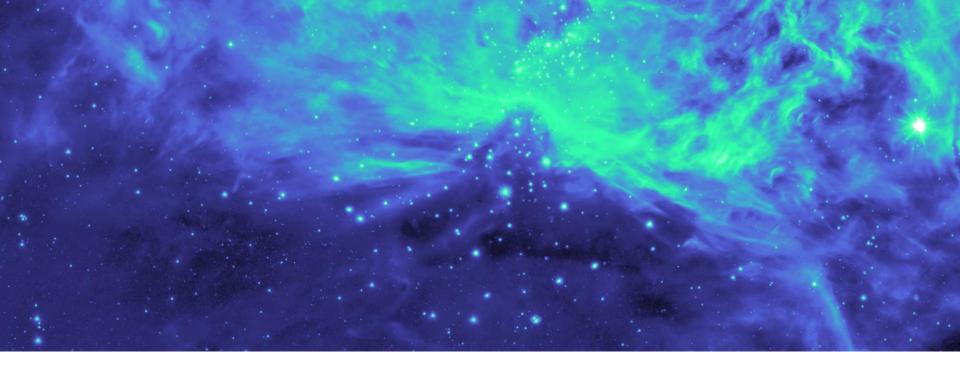


company/fetfx/



Info@fetfx.eu





Thank you!

