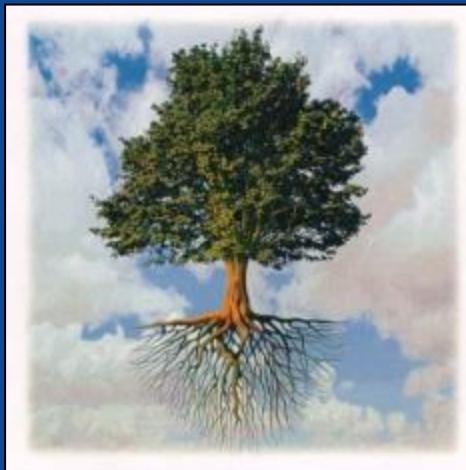


Programa Future and Emerging Technologies (FET)



Sevilla

9 de abril de 2019

Nicolás Ojeda – NCP/Representante CP FET

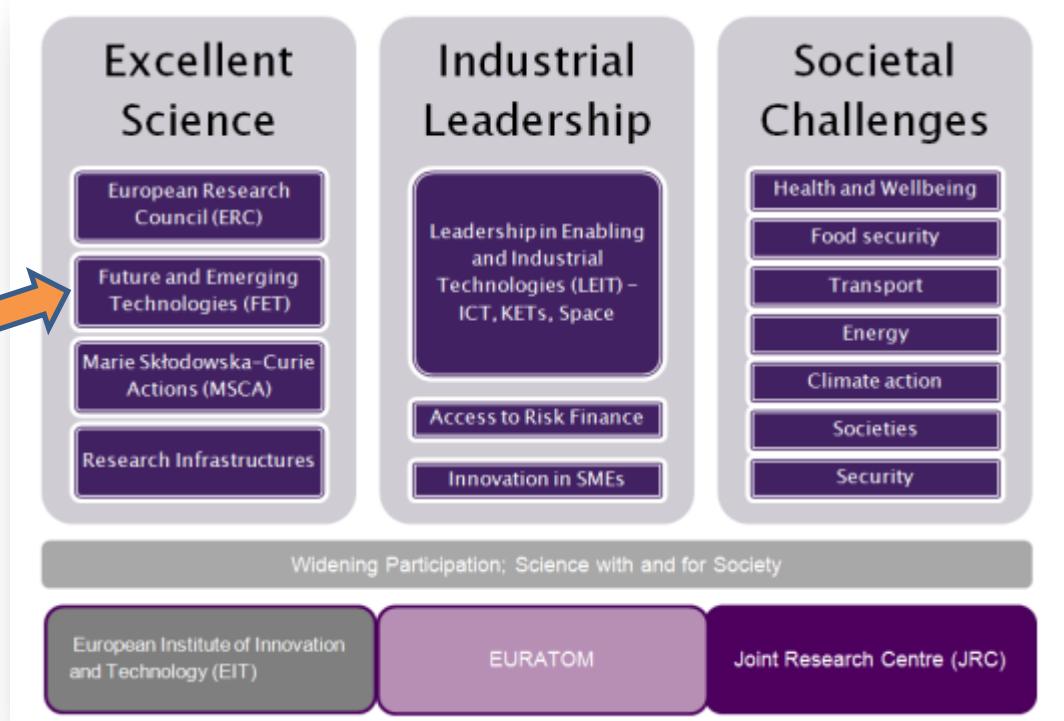
CONTENIDO

- I. Introducción: Qué es FET**
- II. FET OPEN**
 - FET OPEN RIA
 - FET OPEN CSA - Innovation Launchpad
- III. FET PROACTIVE**
 - Boosting Emerging Technologies (BET)
 - Próximos topics – relación con EIC (HE)
 - Topics 2019
- IV. FET FLAGSHIPS**
 - Flagships actuales y futuras
 - Flagships/misiones en HE
- V. Futuro del programa FET en Horizon Europe**
- VI. Enlaces de interés e información**



I. Horizonte 2020

Presupuesto: 75 mil millones € aprox



ERC	13.094,81 M€
FET	2.695,99 M€
MSCA	6.162,26 M€
Infrastructures	2.488,01 M€
TOTAL	24.441,07 M€

FET en H2020: Objetivos

- **Investigación más allá de lo que es conocido**, aceptado o ampliamente adoptado.
- FET apoya **nuevas y visionarias** aproximaciones para desarrollar **nuevos enfoques** que abran nuevos caminos hacia **posibilidades tecnológicas radicalmente nuevas**.
- FET financia **colaboraciones interdisciplinares** fructíferas que busquen “*cross-fertilisation*” y **sinergias** entre disciplinas de vanguardia tanto científicas (ciencias de la vida, sociales, humanidades,...) como ingenierías.

FET focuses on **research beyond what is known**.



Investigación de **riesgo**, que cree **nuevas ideas, conceptos y paradigmas** que supongan un **cambio radical** de las aproximaciones actuales.

Transversalidad y aplicación a cualquier **dominio de investigación**

- **FET Open:** (bottom-up). Nuevas ideas para tecnologías radicalmente nuevas.
- **FET Proactive:** Áreas concretas. Consolidar comunidades de investigación y crear masa crítica.
- **FET Flagships:** Actuales y nuevas flagships.

Open, light and agile

Roadmap based research

FET-Open

Early Ideas
Individual research projects

Exploring
novel ideas

FET Proactive

Exploration and Incubation
Topical clusters of research projects

Developing
topics & communities

FET Flagships

Large-Scale Partnering Initiatives
Common research agendas

Addressing
grand challenges

II. FET OPEN (RIA&CSA)



FUNDACIÓN ESPAÑOLA
PARA LA CIENCIA
Y LA TECNOLOGÍA

oficina
europea

FET OPEN 2018-2019-2020

- **Acciones de Investigación e Innovación (RIA).** Primeras etapas de la investigación científica e innovación tecnológica en torno a nuevas ideas para desarrollar tecnologías radicalmente nuevas.
- **Acciones de Coordinación y Apoyo (CSA)** dirigidas a facilitar la coordinación de estas actividades y el desarrollo colaborativo.
- FET OPEN supone el **40% del presupuesto**. Gestionado por REA.

FET OPEN		
FETOPEN-01-2018-2019-2020 (RIA)	FET-Open Challenging Current Thinking	123,70M€+160,40M€+160,40M€+196,20 M€*
FETOPEN -02-2018 (CSA)	FET-Open Coordination and Support Actions	2 M€
FETOPEN-03-2018-2019-2020 (CSA)	FET Innovation Launchpad	2,5M€+2,7M€+3M€
	FET OPEN WP 2018-2019-2020 WP 2014-15: 160M€ WP 2016-2017: 259,5M€	641,20 M€*

FETOPEN-01-2018-2019-2020 (RIA)

II FET OPEN (RIA)

- Proyectos en **colaboración** (min. 3 participantes de 3 países)
- **3 M€** por proyecto
- **36/48 meses** de duración.
- Propuestas de **16 páginas** (15+1)
- ***Single step submission.***
- ***4 cut-off dates***

Aspectos más repetidos en las convocatorias anteriores:

- 5 socios por proyecto
- Socios de 4 países diferentes
- Duración de 36 meses

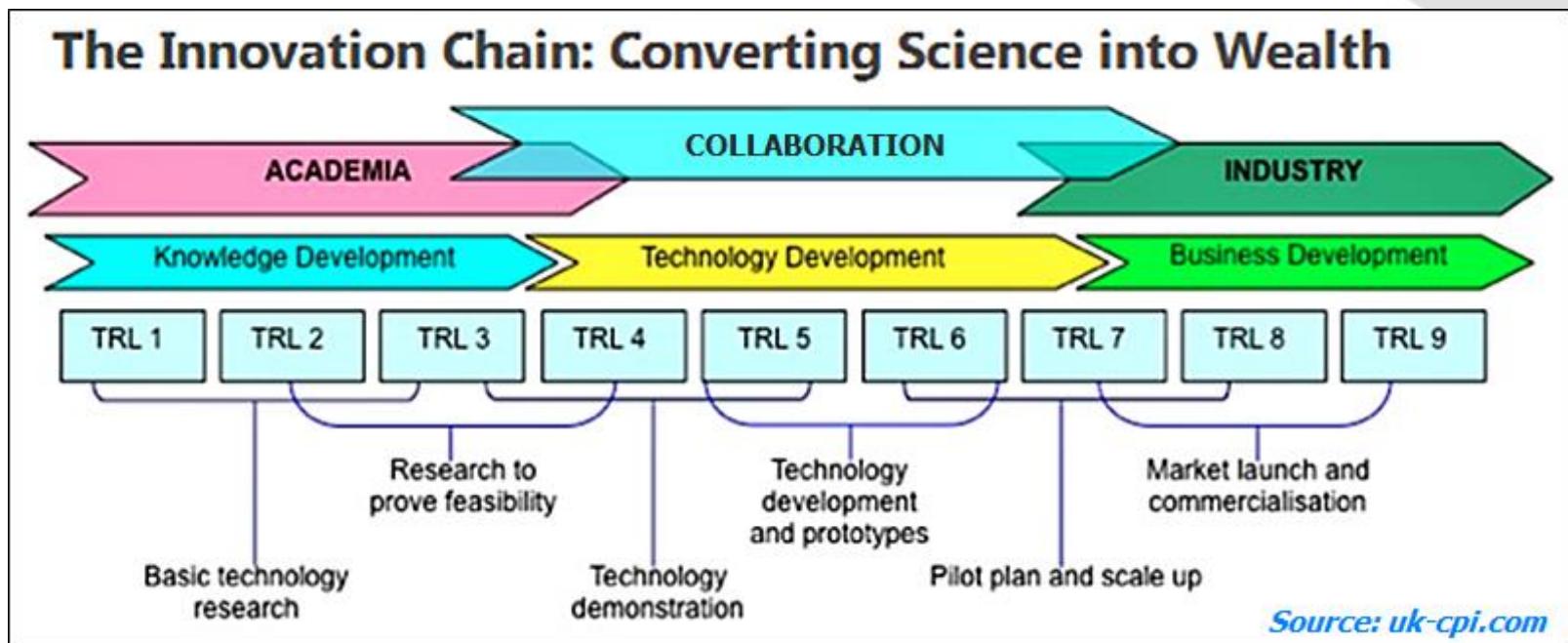
Tipo de acción	Presupuesto			Deadlines
	2018	2019	2020	
FETOPEN-01-2018-2019-2020 (RIA)	123,70 M€	160,40 M€ 160,40 M€		15 mayo 2018 24 enero 2019 27 septiembre 2019 13 mayo 2020

* Piloto del EIC a petición del Consejo Europeo Julio 2018
Presupuesto aun por aprobar en WP FET 2020 – Junio 2019

FET OPEN 2018-2019-2020 (RIA)

Acciones de investigación e innovación (RIA – 100% financiado):

- Proyectos I+D en cualquier área o línea de investigación. No solo ICT.
- Proyectos “bottom up” pero no “blue sky research” (No ERC) Orientado a la tecnología
- **TRL 1 -3.** Resultados proyecto FET prueba experimental de un concepto en laboratorio.



¿Cómo identificar una idea FETOPEN?

- Comprobar que la **idea no tiene sitio en otros WPs en H2020** (LEIT & Societal Challenges) y otras calls de FET que pueden ser de interés (Proactive/Flagships)
- El/la investigador/a es el/la que conoce el **Estado del Arte** y lo que realmente supone una **idea rompedora** con respecto a su tema de investigación que suponga un impacto clave.
- Una buena idea FETOPEN debe identificar los primeros pasos para desarrollar una tecnología futura pero **no para mejorar lo que ya existe!**
- Esos primeros pasos de una futura tecnología además deben tener un componente **disruptivo**, es decir, de hacerse una realidad **debería desplazar la tecnología actualmente existente.**



FET Gatekeepers

Timo Hallantie's blog – Head of Unit FETOPEN: [What it takes to succeed in FET OPEN](#)

Vídeo FET Gatekeepers: <https://www.youtube.com/watch?v=t8dAJvoiguM>

Scope: Propuestas de investigación **interdisciplinar de vanguardia de alto riesgo/alto impacto** con todas las siguientes características esenciales o "FET gatekeepers":

- **Visión radical:** el proyecto debe abordar una **nuevo concepto de tecnología que desafíe lo establecido** por un concepto actual.
 - **Breakthrough tecnológico:** El proyecto debe ser **científico-tecnológico novedoso y ambicioso** para su visión.
 - **Investigación interdisciplinar ambiciosa:** Para lograrlo, el proyecto debe **abrir nuevas áreas de investigación.**
- NO AVANCE EN TECNOLOGÍA YA ESTABLECIDA**
- NO INVESTIGACIÓN EXPLORATORIA SIN OBJETIVO TECNOLÓGICO**
- NO INVESTIGACIÓN INCREMENTAL DE BAJO RIESGO**

CRITERIOS DE EVALUACIÓN

II. FET OPEN (RIA)

Compliance with FET Gatekeepers!!	Contribution to impacts listed in the WP!!	
Excellence	Impact	Implementation
<p>Clarity of the radical vision of science-enabled technology and its differentiation from current paradigms.</p> <p>Novelty and ambition of the proposed science-to-technology breakthrough that addresses this vision.</p>	<p>The extent to which the outputs of the project would contribute to the expected impact listed in the Work Programme under this topic.</p>	<p>Coherence and effectiveness of the research methodology and work plan to achieve project objectives and impacts, including adequate allocation of resources to tasks and partners.</p>
<p>Range of and added value from interdisciplinary for opening up new areas of research; non-incrementality of the research proposed.</p>	<p>Effectiveness of measures and plans to disseminate and use the results (including management of IPR) and to communicate about the project to different target audiences.</p>	<p>Role and complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise.</p>
<p>Threshold: 4/5 P: 60%</p>	<p>Threshold: 3.5/5 : 20%</p>	<p>3/5 P: 20%</p>

Estructura propuesta

Part A: Administrative part of the proposal

Part B : Scientific part of the proposal

NO COVER

Section 1: S&T Excellence

Section 2: Impact

Section 3: Implementation

Additional information

Section 4: Members of the consortium

E.g. legal entity, CV, subcontract, third party

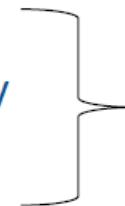
Section 5: Ethics and Security

Ethics self-assessment & supporting
documents

Security checklist



Section 1,2 & 3 are strictly limited to 15 pages!



Section 4 & 5 are not covered by the page limit.

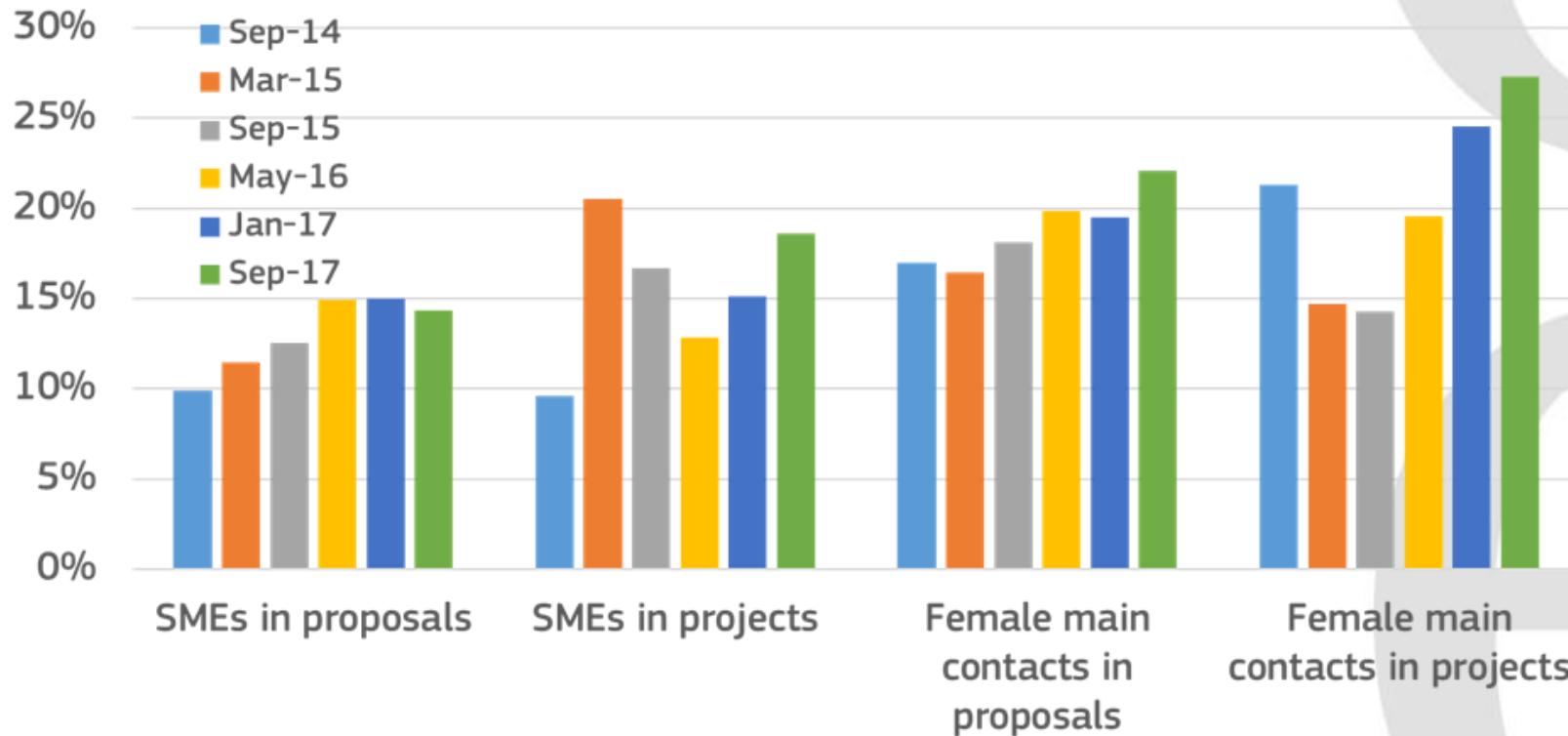
Algunos aspectos a tener en cuenta a la hora de preparar una propuestas en FETOPEN

- Importancia de incluir “**nuevos actores**”: SME, mujeres y jóvenes investigadores. En coordinación con parte 4.
- Importancia **criterios de desempate H2020**.
- Importancia de **los CVs** en la propuesta.
- Confección del **consorcio**:
 - ¿Incluir socio de **tercer país**, p.e USA? Participación de entidades de terceros países.
 - Financiado por UE.
 - No financiado pero proyecto sigue.
 - Socio con financiación propia.
 - Posible solución: **Inclusión de un “Advisory Board”**.
 - **Incluir empresa, PYME, socio industrial.**



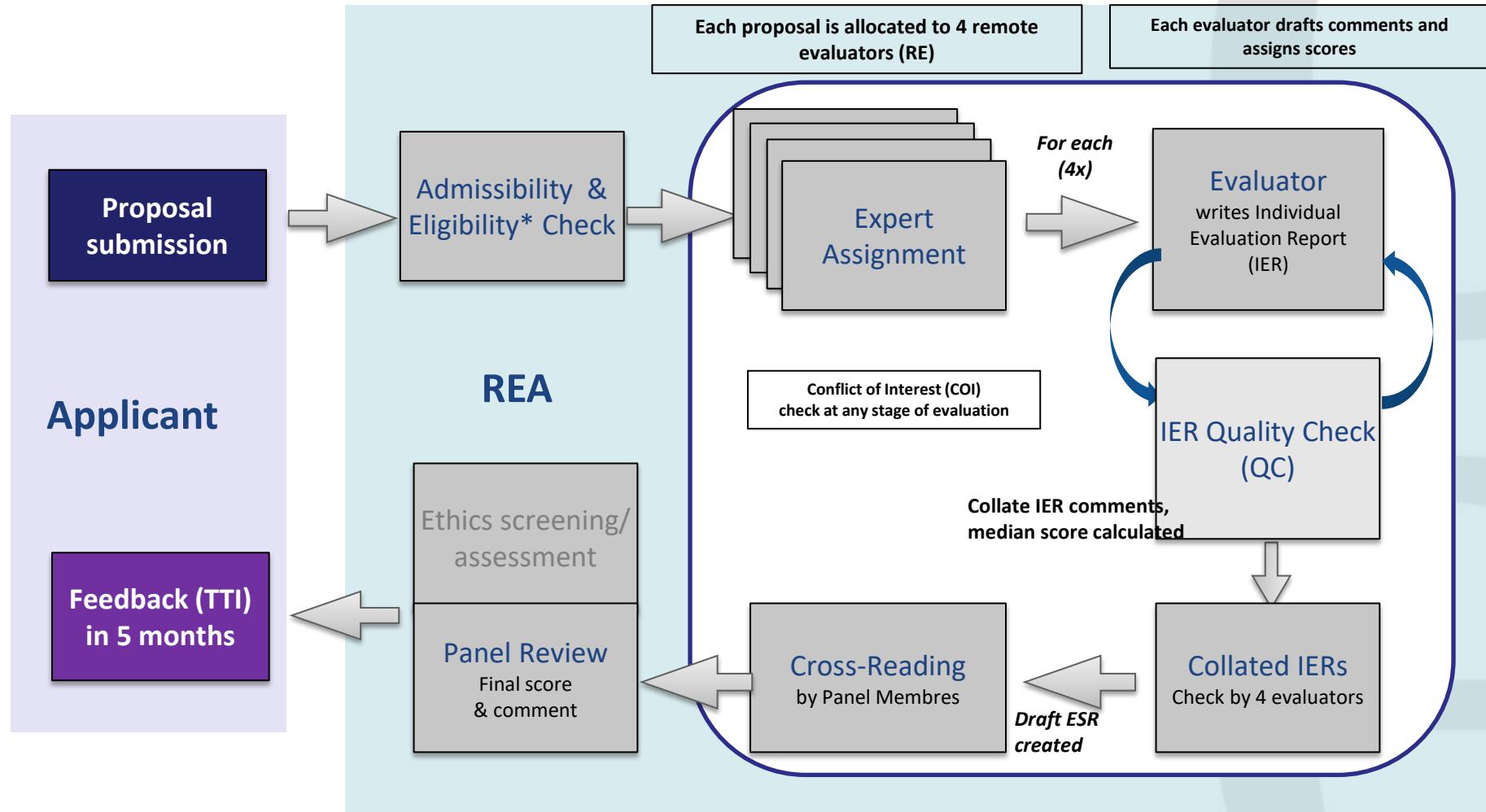
FET OPEN 2018-2019-2020 (RIA)

SMEs and female main contacts in FET-Open RIA 2014-2017



El 70% de los proyectos financiados tienen al menos una PYME, el 80% un socio industrial.

PROCESO DE EVALUACIÓN



*out-of-scope can be declared at further stages

FET-Open evaluation outcome (WP2014-18 cut-offs)

Calls	Total # of eligible proposals	% proposals above threshold	Number of grants	Success rate	Total Budget (M€)
Sep-14	639	39%	24	3,8%	78,1
Mar-15	665	49%	11	1,7%	41
Sep-15	800	43%	11	1,4%	37,8
May-16	544	50%	23	4,2%	87,8
Jan-17	365	52%	26	7,1%	84,8
Sep-17	395	43%	27	6,8%	85,3
May-18	356	45%	38	10,7%	124
Jan-19	421	?	(50?)	11-12%	160
Total	4185		200 (aprox)		700

Ejemplos de proyectos FETOPEN

Enlace a todos los proyectos FETOPEN RIA financiados hasta ahora (y también los del Innovation Launchpad):

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/fet-open>

WP 2014-2015:

- 1º Corte: 24 proyectos
- 2º Corte: 11 proyectos
- 3º Corte: 11 proyectos

WP 2016-2017:

- 1º Corte: 22 proyectos
- 2º Corte: 26 proyectos
- 3º Corte: 27 proyectos

WP 2016-2017 Innovation Launchpad:

- 1º Corte: 16 proyectos
- 2º Corte: 19 proyectos

FET-Open Research and Innovation Actions

- **B2B** aims to generate a first-of-a-kind 3D model of spontaneous breast cancer metastasis to the bone to dissect the complexity of the metastatic process and empower high-throughput drug screening in a physiological context. This technology will transcend the limitations of current in vitro technologies, enabling physiological tissue-level complexity with organoids comprising several million cells. Coordinator: Consiglio Nazionale Delle Ricerche, Italy
- **BionicVEST** will develop the first system to electrically reproduce linear accelerations in the otolith organ by stimulating their neural ends. It will demonstrate the safety of a vestibular implant for humans and determine its efficacy in restoring vestibular function. Coordinator: Fundacion Canaria De Investigacionsanitaria (FUNCANIS), Spain
- **BioWings** proposes to solve the deadlock associated with the slow progress in the development of biocompatible actuator materials through the implementation of a completely new class of smart actuating materials to be integrated in biocompatible Micro-Electro-Mechanical Systems (MEMS) – the key components of biomedical systems, enabling miniaturised devices with diagnostic, prognostic and therapeutic functionalities. Coordinator: Danmarks Tekniske Universitet, Denmark
- **CHIRON** envisions spin wave computing to complement and eventually replace CMOS in future microelectronics, in response to the future miniaturisation of electronic circuits following Moore's law that will require the introduction of increasingly disruptive technologies to limit power consumption and optimise performance per circuit area. Coordinator: Interuniversitair Micro-Electronica Centrum, Belgium
- **CyGenTiG** aims to build and demonstrate a technology for controlling the development of engineered tissues by optogenetics and closed-loop, self-correcting control. The core

Algunos Ejemplos de proyectos FETOPEN (RIA)

2D-INK is targeted at developing inks of novel 2D semiconducting materials for low-cost large-area fabrication processes on insulating substrates through a new methodology, which will exceed the properties of state-of-the-art graphene- and graphene oxide based inks. Achieving this would represent an important step forward in the processing of 2D semiconducting materials and will provide the key parameters for fabricating the next generation of ultrathin electronic appliances.

IBSEN will build a repertoire of human behaviour in large (1000+ persons) structured groups using controlled experiments. The project will apply this setup to specific research questions, focusing on novel phenomenology that may arise in large systems as compared to typical smaller ones, to find the rules that govern human behaviour in those cases, including the influence of social context and individual identity on them

CellViewer seeks to visualize in single cells with nanoscale resolution macromolecules such as proteins and genetic information carriers (DNA, mRNA) in parallel and at the systems level. This will permit to study the mechanisms of self-renewal and differentiation of mouse embryonic stem cells and consequently to predict stem cell changes resulting from specific input stimuli.



Algunos Ejemplos de proyectos FETOPEN (RIA)

AMADEUS will investigate next generation materials and solid state devices for ultra-high temperature energy storage and conversion. Coordinator: Universidad Politécnica de Madrid, Spain.

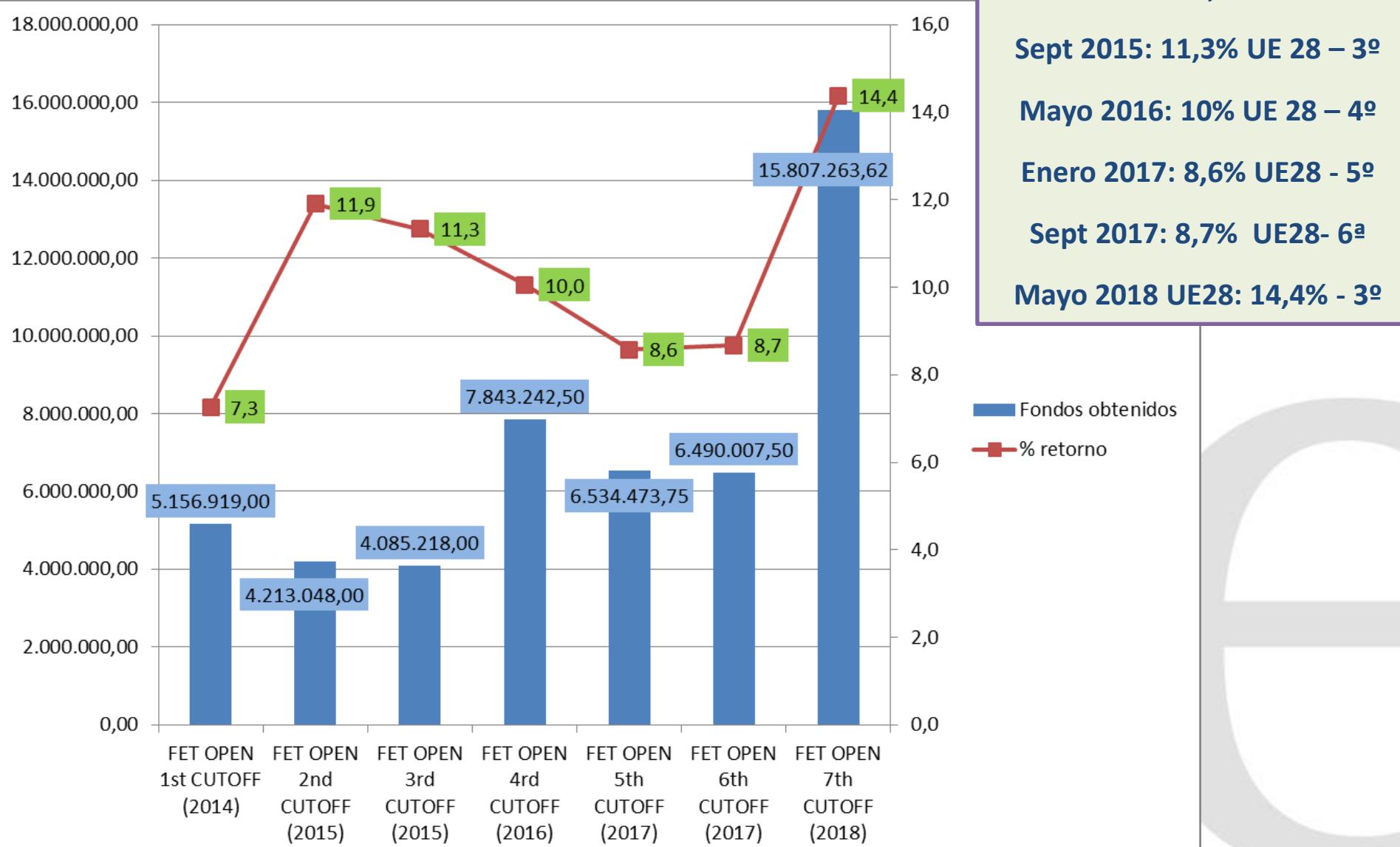
ByAxon focusses on the development of an active bypass that will enable neural reconnection directly at the spinal cord level. Coordinator: *Fundación IMDEA Nanociencia*, Spain.

HISTO-MRI aims at non-invasive visualization of individual human cells *in vivo* and in real time through high frequency pulsed magnetic resonance imaging. Coordinator: Agencia Estatal Consejo Superior de Investigaciones Científicas, Spain.

SALBAGE is planning to create a new Sulfur-Aluminium battery having a high energy density and low price compared with the actual Li-ion technology by putting in the synthesis of solid-like electrolytes based on polymerizable ionic liquids and Deep Eutectic Solvents in order to obtain polymer-gel electrolytes with a high ionic conductivity at room temperature. Coordinator: Albufera Energy Storage Sl, Spain.

FET OPEN RIA 2014-2018

Participación entidades españolas



FETOPEN-03-2018-2019-2020 (CSA) INNOVATION LAUNCHPAD

- **Reto específico:** Incrementar el potencial innovador de FET financiando actividades no previstas en los GA que permitan facilitar aplicaciones comerciales de los resultados de los proyectos.
- Para los **proyectos FET del 7PM/H2020** recientemente finalizados o a punto de terminar.
- Para financiar **modelos de negocio, definición planes de comercialización, consolidación de una estrategia IPR, desarrollo contactos que faciliten llegada a mercado** (inversores, socios industriales, end users,...) **Complementario** a otros instrumentos para desarrollo de negocios y SMEs
- Proyectos de **máximo 18 meses**, máximo **0,1 M€**. Propuestas de 7 páginas.

FET Innovation Launchpad is designed to assist in the first steps to accelerate the real-world impact of a result from FET research

FETOPEN-03-2018-2019-2020 (CSA) INNOVATION LAUNCHPAD

Tipo de acción	Presupuesto			Deadlines
	2018	2019	2020	
FETOPEN-03-2018-2020 (CSA) (opening 7 Nov 2017)	2,5 M€	2,70 M€	3,00 M€	16 Oct 2018 8 Oct 2019 14 Oct 2020

Webinar Innovation launchpad convocatoria de 12/05/2017:
<https://webcast.ec.europa.eu/fet-innovation-launchpad-cut-off-27-09-2017>

Enlace a la convocatoria de octubre 2019: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fetopen-03-2018-2019-2020>

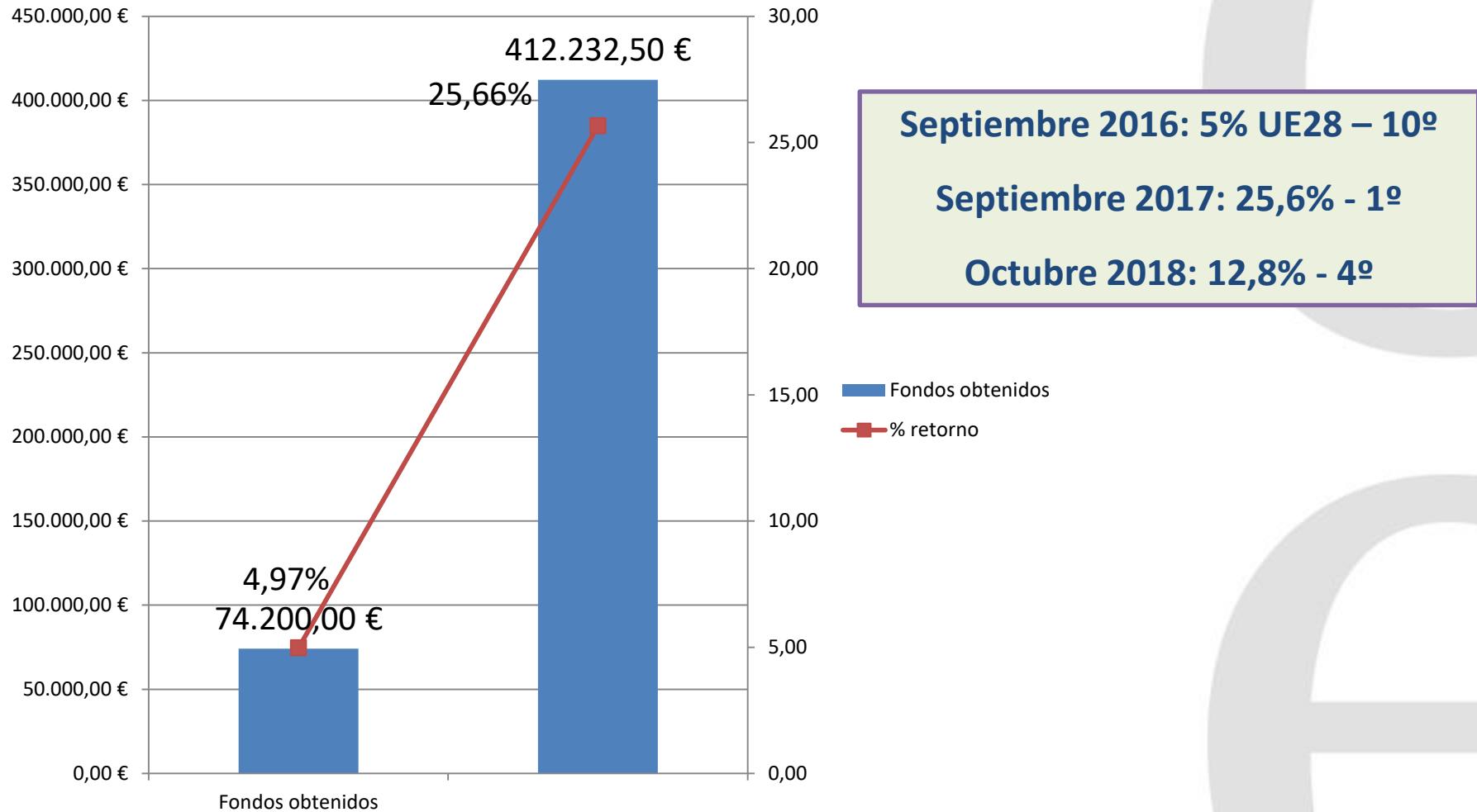


FET-Open INNOVATION LAUNCHPAD evaluation outcome

Convocatorias	2016	2017	2018	2019	2020
Presupuesto	1,2M€	1,8M€	2,5M€	2,7M€	3,0M€
Call Topic	Propuestas elegibles	Financiadas	Tasa éxito	Nota de corte	
FETOPEN Innovation Launchpad (26 septiembre 2016)	88	16	18,2%	4,3	
FETOPEN Innovation Launchpad (27 septiembre 2017)	54	18	33,3%	4,15	
FETOPEN Innovation Launchpad (16 octubre 2018)	38	25	66%	3,45	

FET OPEN CSA Innovation Launchpad

Resultados entidades españolas



III. FET PROACTIVE

- Boosting Emerging Technologies (BET)
- High Performance Computing (HPC)

Nuevos topics en WP 2020



oficina
europea

FET PROACTIVE: BOOSTING EMERGING TECHNOLOGIES&HPC

Proyectos con resultados concretos para:

- Madurar **nuevas áreas estructurando comunidades emergentes** y apoyando el diseño y desarrollo de temas científicos transformadores y **nuevas comunidades de investigación interdisciplinaria**.
- Establecer cimientos e **impulsar ecosistemas innovadores** en nuevas tecnologías emergentes
- Propuestas: 30+1 páginas.
- **Proyectos entre 4-7 M€**, duración de hasta **5 años**. 3 a 8 socios por proyecto.
- Un solo *deadline, one step submission*.

Call FET Proactive – Draft EIC WP

Deadline: 3 Sep 2019!!

FETPROACT-EIC-PATHFINDER-05-2019: FET Proactive: emerging paradigms and communities

- a. Human-Centric AI
- b. Implantable autonomous devices and materials
- c. Breakthrough zero-emissions energy generation for full decarbonization

52.00 M€

FETPROACT-EIC-PATHFINDER-06-2019: EIC Transition to Innovation Activities

The targeted technology should be in one of the following areas:

- Micro- and Nano-technologies
- Artificial Intelligence and advanced robotics
- Technologies for the life sciences, health and treatment
- Energy technologies
- Interaction technologies (including virtual- augmented- and mixed reality,...)

16.00 M€



Call FET Proactive – Draft FET WP 2020

EUROPEAN INNOVATION COUNCIL

Deadline: 3 Sep 2019

FETProact-EIC-05-2019 budget: 52M€ Emerging paradigms and communities

- To explore and consolidate a new technological direction in order to put it firmly on the map as a viable **paradigm for future technology**.
- Stimulate the emergence of a European innovation eco-system around a **new technological paradigm**
- **Scope is one of the following subtopics:**
 - Human-Centric AI
 - Implantable autonomous devices and materials
 - Breakthrough zero-emissions energy generation for full decarbonisation
- Up to **€4-5 million and up to 4 years**
- Minimum **3 partners** from 3 EU / AC

EUROPEAN INNOVATION COUNCIL

Deadline: 3 Sep 2019

Conditions Transition to Innovation

- Total budget: **16M€**
- Small RIA up to 24 months
- EU contribution: 1-2M€
- Explicit links with H2020 FET OPEN and PROACT project(s)
- No duplications with activities of the original project(s)!
- Well-defined intended outcome, KPIs
- Strong exploitation plan with market potential
- Agreement on project(s) IPRs in proposal



FETPROACT-EIC-06-2019: EIC Transition to Innovation Activities

Call FET Proactive – Draft FET WP 2020

FETPROACT-05-2020

Fecha apertura: 19 noviembre 2019

RIA on 3 sub-topics:

Fecha de cierre: 2 de abril 2020

- a. Future technologies for social experience
- b. Measuring the unmeasurable — Sub-nanoscale science for Nanometrology
- c. Digital twins for the life-sciences

FETPROACT-06-2020: Environmental Intelligence

- a. New techniques for creating and using dynamic models of environmental evolution
- b. Radically novel approaches to resilient, reliable and environmentally responsible in-situ monitoring

FETPROACT-07-2020: Neuromorphic computing technologies

- New low-power neuromorphic hardware
- New theories, architectures and algorithms
- Demonstrate advantages in end-to-end scenarios



50.00 M€

18.00 M€

15.00 M€

IV. FET FLAGSHIPS

Graphene&HBP

Quantum Technologies

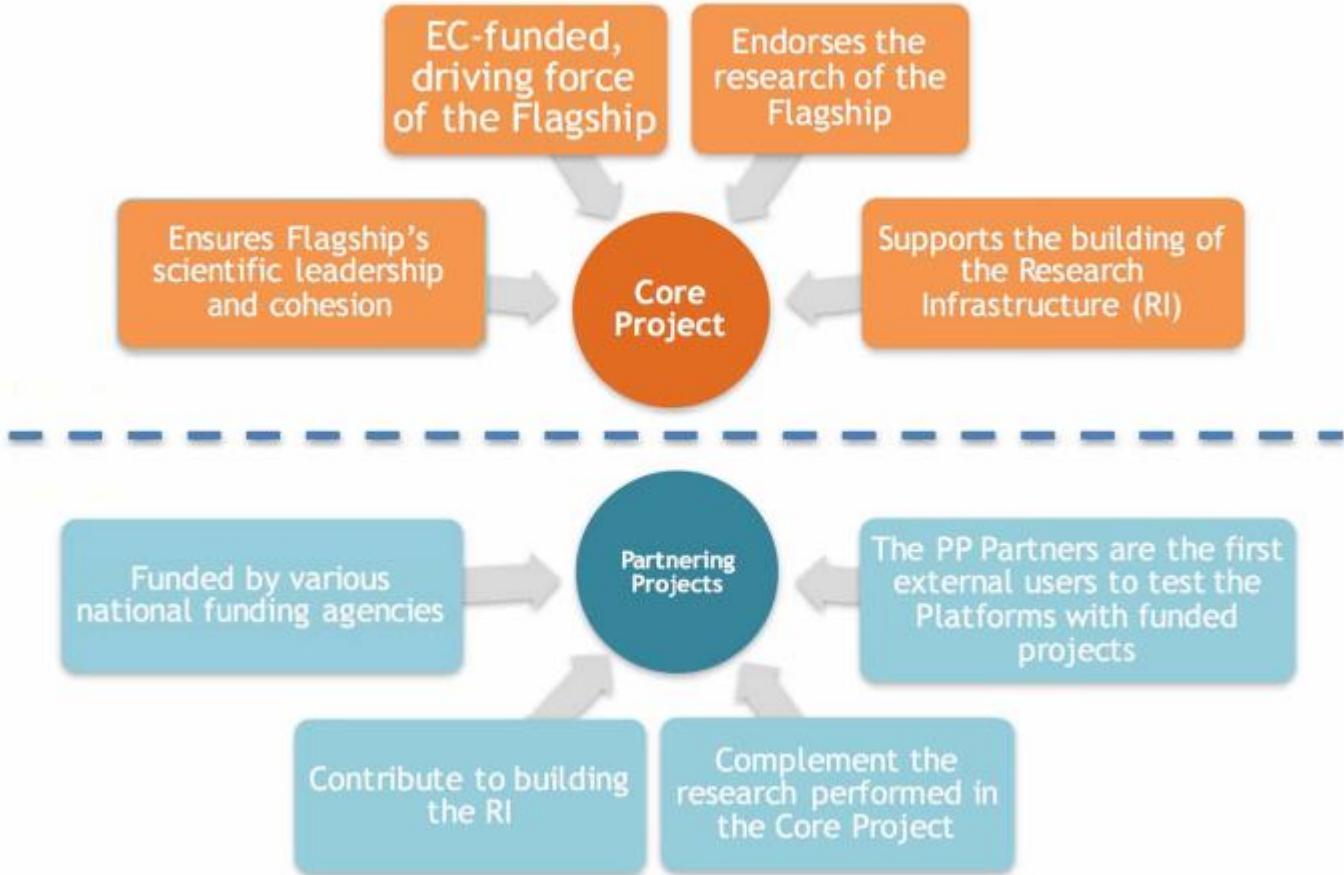
“Large scale research initiative” on Batteries

Future FET Flagships

Horizon Europe: Flagships/Missions?



oficina
europea



Flagship en Quantum Technologies

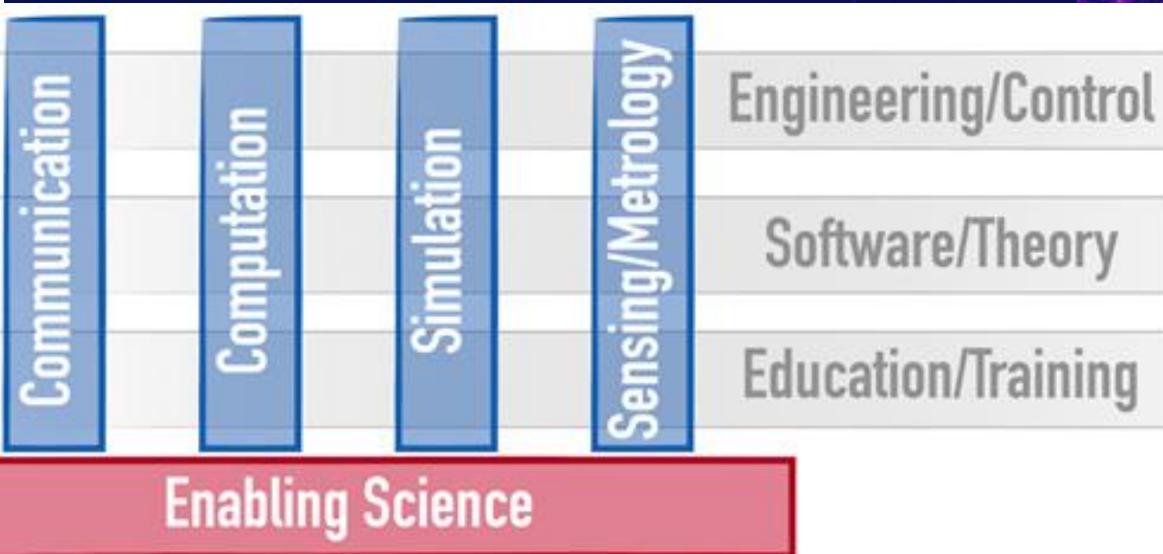
The future is Quantum.

The Second European Quantum Flagship will revolutionize our ability to manipulate single atoms and molecules. The Quantum Flagship is driving this revolution in Europe.

Nueva convocatoria sobre computación cuántica para 2020

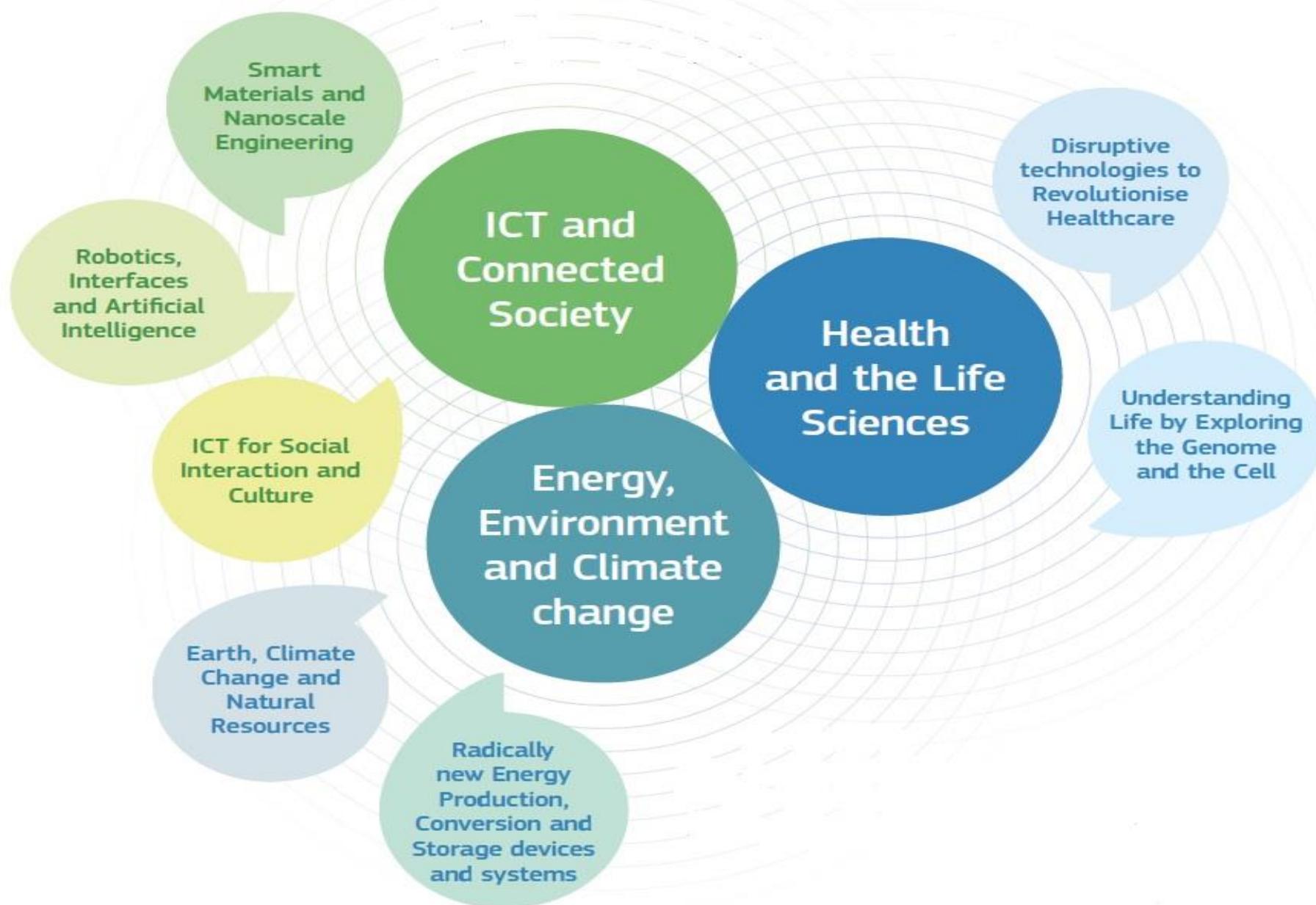
Discover Understand Engage

Participate



<https://qt.eu/>

New flagships selection process (2016-2018)



Selected FET Flagships CSAs Pilot proposals



Time
Machine
FET
Flagship

- Time Machine will give Europe the technology to strengthen **its identity against globalisation, populism and increased social exclusion**, by turning its history and cultural heritage into a living resource for co-creating its future.
- **Large-scale digitisation and computing infrastructure** mapping millennia of European historical and geographical evolution...
- A series of fundamental breakthroughs are targeted in **Artificial Intelligence and ICT**, making Europe the leader in the extraction and analysis of **Big Data** of the Past.
- Time Machine will drive **Social Sciences and Humanities** toward larger problems, allowing new interpretative models to be built on a superior scale.

- The Humane AI Flagship will develop the **scientific foundations and technological breakthroughs** needed to shape the **ongoing AI revolution**.
- Need for fundamentally new solutions to core research problems in AI, e.g. understanding actions recommended or performed by AI systems.
- Challenges include: learning complex world models; explainable systems; adapting to dynamic, open-ended real-world environments; in-depth understanding of humans and complex social contexts...
- The focus is on **human-centered AI**, with a strong emphasis on **ethics, values by design, and related legal and social issues**.



Selected FET Flagships CSAs Pilot proposals



- The grand challenge of LifeTime is to understand how genomes function within cells, and how cells form tissues and dynamically remodel their activities when tissues progress towards disease
 - Early detection and interception of chronic and progressive diseases
 - LifeTime aims to revolutionize healthcare by developing and integrating several emerging, disruptive technologies.
 - Its long-term vision is that LifeTime technologies will inform the physician about the molecular history of a patient's tissues, their future, and the consequences of perturbations or medical treatments
-
- Recently, a new class of “living drugs” has been developed - Advanced Therapies which aim to transform the current focus of “treatment of disease” into one that concentrates on “restoration of health” with promising results in a broad field of Regenerative Medicine, including targeted immune reconstitution for cancer treatment.
 - If Europe wants a leading role in this emerging field in the future, a mission-driven approach is required to make the transforming promise of Advanced Therapies a reality.



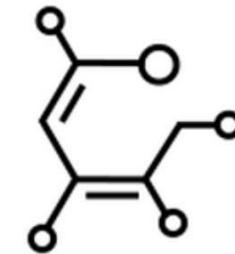
Selected FET Flagships CSAs Pilot proposals



- Energy-X will develop the science as well as technology enabling a **sustainable production of synthetic fuels for energy storage** and as feedstock for the chemical and materials industry.
- Provide a platform for future chemical energy conversion technology in Europe.
- disruptive new science and technology enabling efficient conversion of solar and wind energy into chemical form and will combine this ambition with scale-up to industrially relevant conditions by integrating with European industry.
- Two demonstration projects: manufacturing of carbon-neutral aviation fuels and decentralized production of fertilizers with no CO₂ footprint.

- The aim of SUNRISE is to make sustainable fuels and commodity chemicals at affordable costs of materials and Earth surface, using **sunlight as the only energy source**.
- Scientific and industrial communities that will develop radically new technologies to harvest solar energy and enable **the foundation of a global circular economy**.
- SUNRISE targets three synergistic S&T approaches: (i) electrochemical conversion with renewable power, direct conversion via (ii) photoelectrochemical and (iii) biological and biohybrid systems.

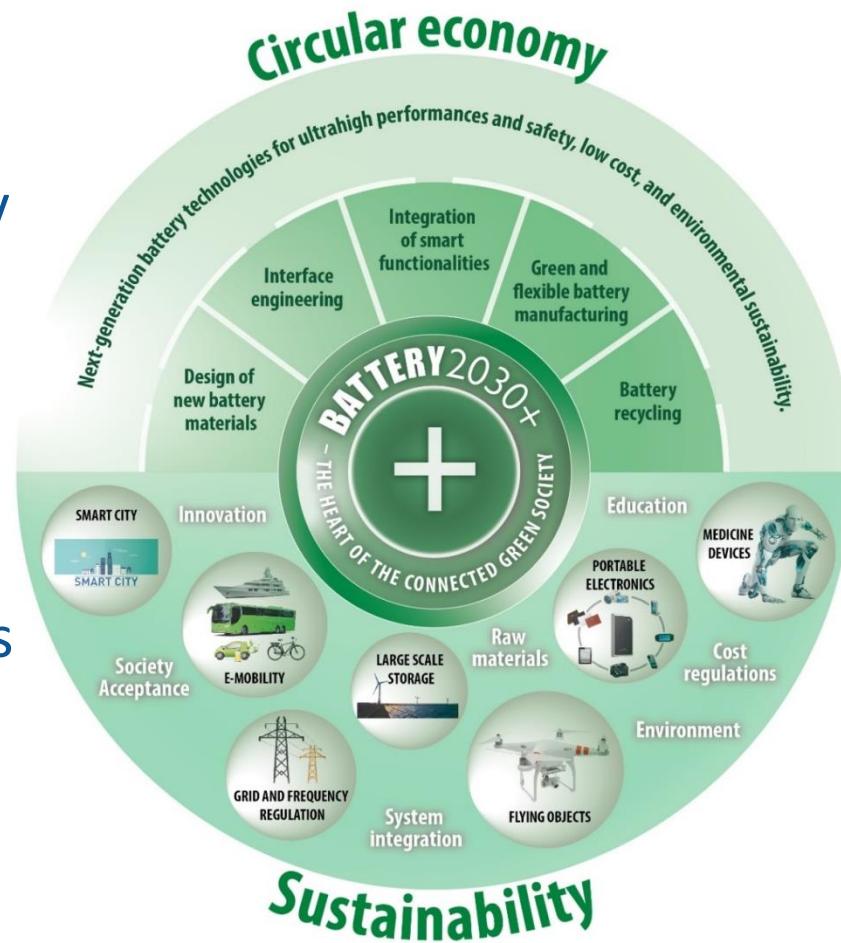
SUNRISE



European
Commission

A large-scale research initiative on Future Battery Technologies

- ❖ Ultrahigh performance, smart & sustainable battery
- ❖ e-mobility and stationary storage (and others)
- ❖ Disruptive approaches & battery technologies
- ❖ Integrative approach across the value chain
- ❖ Digitally empowered



Battery “large scale research initiative topics”

- LC-BAT-12-2020: Novel methodologies for autonomous discovery of advanced battery chemistries: The development of a full-scale autonomous battery **Material Acceleration Platform (MAP)** linking artificial intelligence (AI) and multi-scale modelling to radically accelerate battery material synthesis and characterization. **20M€**

Traspaso a cross-cutting Call 'Building a low-carbon, climate resilient future: Next-Generation Batteries' in the part "Cross-cutting activities" of the Horizon 2020 Work Programme 2018-2020

- LC-BAT-14-2020: Self-healing functionalities for long lasting battery cell chemistries Self-healing functionalities for long lasting battery cell chemistries. **10M€**
- LC-BAT-15-2020: Coordinate and support the large scale research initiative on Future Battery Technologies (CSA). **2M€**
- CE-NMBP-41-2020: ERA-NET on materials, supporting the circular economy and Sustainable Development Goals. **5M€ (M-ERANET)**

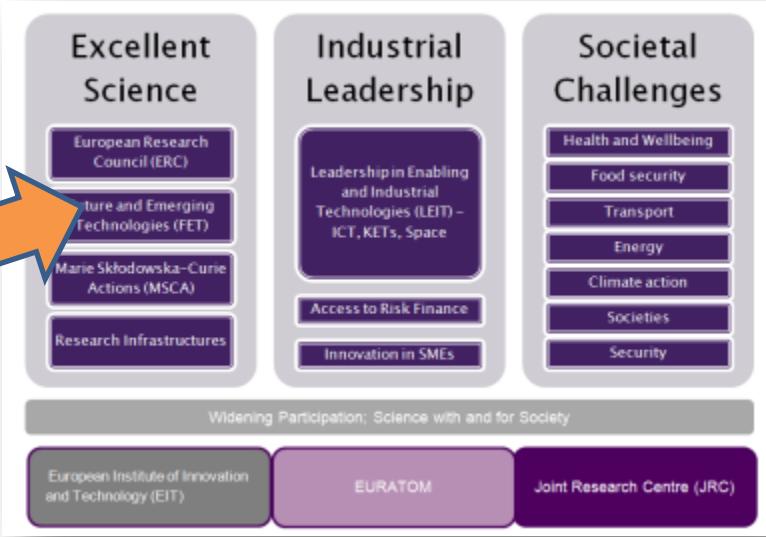
Topics: OPEN	9 julio 2019	DEADLINE	16 jan 2020
ERANET: OPEN	27 junio 2019	DEADLINE	13 feb 2020

V. El futuro de FET en el programa Horizon Europe



FUNDACIÓN ESPAÑOLA
PARA LA CIENCIA
Y LA TECNOLOGÍA

oficina
europea



FET en Horizon2020

FET-Open

Early Ideas
Individual research projects

Exploring novel ideas

FET Proactive

Exploration and Incubation
Topical clusters of research projects

Developing topics & communities

FET Flagships

Large-Scale Partnering Initiatives
Common research agendas

Addressing grand challenges

FET en Horizon EUROPE



"I want an evolution not a revolution"
Carlos Moedas, 2/5/2018



Strengthening the European Research Area

Sharing Excellence

Reforming and Enhancing the EU Research and Innovation System

European Innovation Council

€3 billion-pilot package to support bottom-up ideas

PATHFINDER Pilot	ACCELERATOR Pilot
€ 845 million 400 projects	€ 2,100 million XXXX projects
FET OPEN + FET Proactive Future and Emerging Technologies (grant-only)	SME Instrument Phase 2 / Fast Track to Innovation (FTI) (grant-only)
Visionary idea for developing radical and innovative technologies	Blended finance (grant + equity)
Coaching, mentoring and business acceleration services for all SMEs	
EIC Horizon Prizes + Support actions €50 million	

Piloto del EIC en 2019

https://ec.europa.eu/info/news/enhanced-eic-pilot-be-launched-2019-request-european-council-2018-sep-10_en



English EN

Home > News > Enhanced EIC pilot to be launched in 2019 as per request of European Council

NEWS | 10 September 2018 | Brussels, Belgium | Research and Innovation

Enhanced EIC pilot to be launched in 2019 as per request of European Council

The European Commission have confirmed the intention to launch an enhanced European Innovation Council (EIC) pilot initiative in 2019, following the [European Council's request in July this year](#).

The enhanced pilot will build on the proposed structure of the EIC under the [Horizon Europe](#) proposal to fast track disruptive and market-creating

VI. Enlaces de interés e información



FUNDACIÓN ESPAÑOLA
PARA LA CIENCIA
Y LA TECNOLOGÍA

oficina
europea

Oficina Europea FECYT

Ciencia Excelente | Liderazgo Industrial | Retos Sociales | Más Europa Google+ Responder por

ESHORIZONTE2020
Portal español del Programa Marco de Investigación e Innovación de la Unión Europea

MObility

Financiación para la movilidad de investigadores

HOW TO PARTICIPATE

HORIZONTE 2020

¿Qué es? Es el programa que financia proyectos de investigación e innovación de diversos áreas temáticas en el contexto europeo, contando con casi 80.000M€ para el periodo 2014-2020. Investigadores, empresas, centros tecnológicos y entidades públicas tienen

Cómo Participar

La Guía del Participante en Horizonte 2020 te permitirá tener información general de H2020 y sobre el proceso de participación. Para obtener asesoramiento personalizado, los Puntos Nacionales de Contacto temáticos le ayudarán en todas las fases de la

ACTUALIDAD

"IF Expressions of Interest: Spanish Host Institutions"

En la nueva sección "IF Expressions of Interest" están disponibles más de 500 expresiones de interés de instituciones españolas, interesadas en acoger y contratar a investigadores en el marco de las Acciones

erc
European Research Council
Established by the European Commission

CALENDARIO DE ACTIVIDADES

Junio 2015

L	M	X	J	V	S	D
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

PUNTOS NACIONALES DE CONTACTO

NOTICIAS

IU..... Informe 17.06.2015....docx Spanish Centres ofdocx NE Simulacro 9 july.docx NCP location map_3....doc

GOBIERNO DE ESPAÑA MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

oficina europea

V. Enlaces de interés e información

www.eshorizonte2020.es

www.oficinaeuropea.es



@esHorizonte2020



esHorizonte2020

Contacto NCPs

Listas de distribución

¡MUCHAS GRACIAS!

pablo.fernandez.gonzalez@upc.edu

nicolas.ojeda@oficinaeuropea.es

[@eshorizonte2020](https://twitter.com/eshorizonte2020)

[@nicojeda77](https://twitter.com/nicojeda77)



oficina
europea