Future and Emerging Technologies (FET)

Resultados participación española en FETOPEN
Novedades en el WP FET 2020

Nicolás Ojeda – NCP/Representante CP FET

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FET OPEN RIA 2014-2018
Participación entidades españolas

Sept 2014: 7,3 % UE28 – 4º

Marzo 2015: 11,9% UE28 – 3º

Sept 2015: 11,3% UE 28 – 3º

Mayo 2016: 10% UE 28 – 4º

Enero 2017: 8,6% UE28 - 5º

Sept 2017: 8,7% UE28- 6ª

Mayo 2018 UE28: 14,4% - 3º

FET OPEN CSA Innovation Launchpad
Resultados entidades españolas

Septiembre 2016: 5% UE28 – 10º

Septiembre 2017: 25,6% - 1º

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FETOPEN CSA - Innovation Launchpad
Countries' participation in submitted proposals

Novedades FET WP 2020

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Call FET Proactive – Draft WP 2020

FETPROACT-5 (EIC): RIA on 3 sub-topics

a. Future technologies for social experience

b. Measuring the unmeasurable — Sub-nanoscale science for Nanometrology

c. Digital twins for the life-sciences

50.00 M€

FETPROACT-6: RIA on Neuromorphic computing

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

15.00 M€

FETPROACT-7: *RIA on 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

18.00 M€

New flagships topics

Timeline for new FET-Flagships call (two stage scenario)

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New flagships topics

Proposal Number	Proposal Acronym	Title
ICT and Connected society		
820323-1	TIME MACHINE	TIME MACHINE : BIG DATA OF THE PAST FOR THE FUTURE OF EUROPE
820503-1	HLP Prep	Human Language Project Preparation
820303-1	Robotics Flagship	Preparatory Action for a FET Flagship on Robotics
820432-1	TERAFLAG	Terahertz Flagship
820412-1	NanoEngineering	NanoEngineering: Omni-Connectivity by Nano-engineered Interfaces
820437-1	Humane AI	Toward AI Systems That Augment and Empower Humans by Understanding Us, our Society and the World Around Us
820506-1	ALOHA	An Accelerator Platform to Enhance the Longevity, Health and Well-being of our Ageing Communities in Europe. Incubator for European Industry to Lead Future Global Cluster in Ageing
Health and the life sciences		
820431-1	LifeTime	Revolutionizing Healthcare by Tracking and Understanding Human Cells during Disease
820358-1	DigiTwins	Digital Twins for Better Health – Better Diagnosis, Better Care, Better Life
820481-1	SynCell	Synthetic Cells: a Paradigm Shift for the Life Sciences
820292-1	RESTORE	Linking of technology and biology for the development pipeline of Advanced Therapies (Advanced Therapy Medicinal Products and Biologized Medical Devices) aiming to restore challenged tissue homeostasi
820371-1	Health EU	Health EU – Human avatars to prevent and cure diseases
Energy, Environment and Climate change		
820383-1	BATTERY 2030	BATTERY 2030+ At the heart of a connected green society
820368-1	ExtremeEarth-PP	ExtremeEarth Preparatory Project
820296-1	CLEAN ENERGY	Fundamental advancements in materials design, processing and integration for CLEAN ENERGY systems and devices–CSA
816336-1	SUNRISE	Solar Energy for a Circular Economy
820444-1	Energy-X	Energy-X: Transformative chemistry for a sustainable energy future

Flagship en Tecnologías Cuánticas

Nueva convocatoria sobre computación cuántica para 2020-20 M€

Nueva convocatoria sobre cooperación internacional con EEUU, Japón y Canadá – 1M€

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Towards a flagship on battery?

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

- ***Next steps***
  - Call for preparatory action 07/2018 (FET WP 2019)
  - Set-up research initiative (2019)
  - Flagship Ramp-up phase (FET WP 2020)

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FET en Horizon EUROPE

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

Pillar I: Open Science

- European Research Council (ERC)
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar II: Global Challenges and Industrial Competitiveness

- Health
- Inclusive and Secure Societies
- Digital and Industry
- Climate, Energy and Mobility
- Food and Natural Resources
- Joint Research Centre

Pillar III: Open Innovation

- European Innovation Council
- Innovation ecosystems
- European Institute of Innovation & Technology (EIT)

Strengthening the European Research Area

Sharing Excellence

Reforming and Enhancing the EU Research and Innovation System

European Innovation Council

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¡MUCHAS GRACIAS!

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