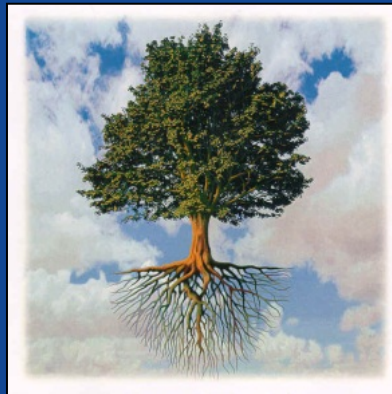


Quantum Flagship y otras convocatorias de interés dentro del programa FET – Horizon2020



Workshop “Quantum Technologies in Spain: The Future is now”

Madrid, 8 de mayo de 2019

Nicolás Ojeda – NCP/Representante CP FET



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

Flagship en Quantum Technologies

European Commission will launch €1 billion quantum technologies flagship

Published on 17/05/2016

Günther H. Oettinger, the Digital Economy Commissioner, announced the Commission's €1 billion flagship initiative in quantum technology.

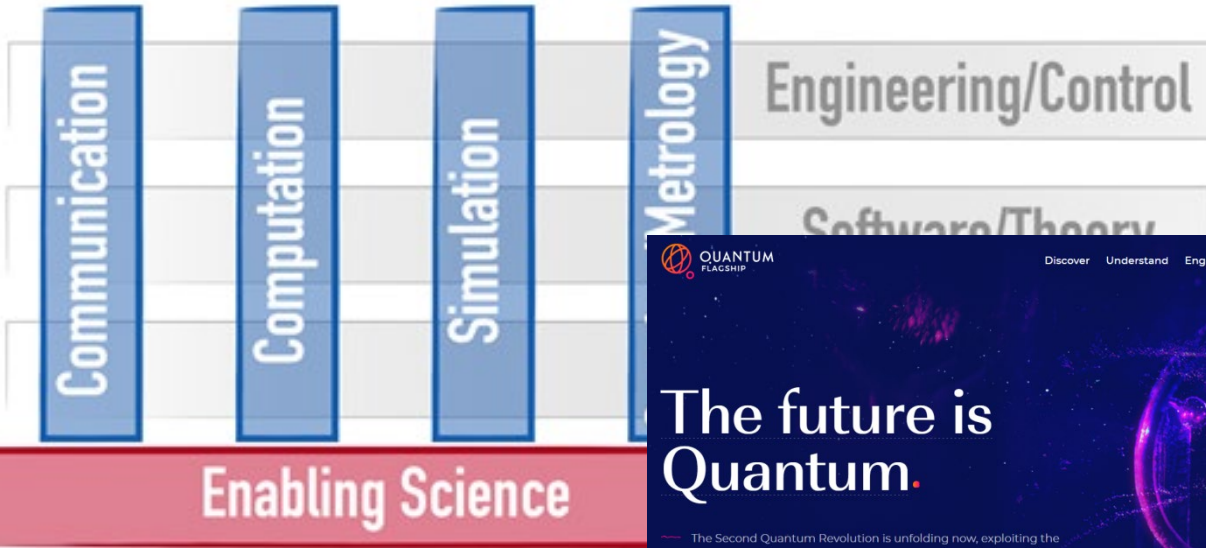
Speaking at the Quantum Conference organized by the presidency of the European Commission, the Commissioner reinforced Europe's quantum technology strategy.

Representative of the Commission's Commissioner, one point that will be a key part of the [Cloud Initiative](#).

The European Commission's €1 billion flagship initiative is at the forefront of science, industry, and excellent research, sensing and opportunities.



Quantum Manifesto
A New Era of Technology
May 2016



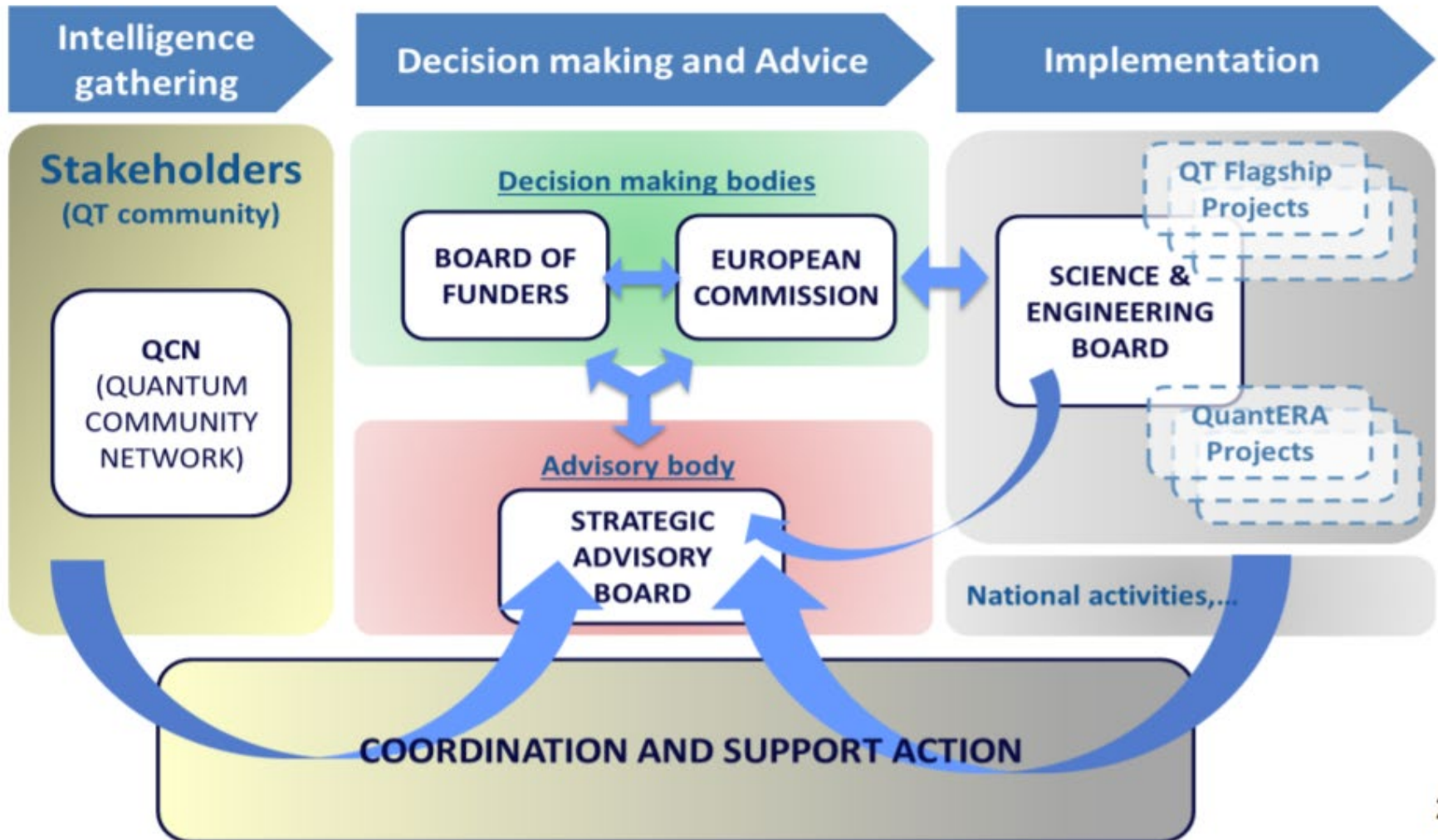
QUANTUM FLAGSHIP

Discover Understand Engage Participate

The future is Quantum.

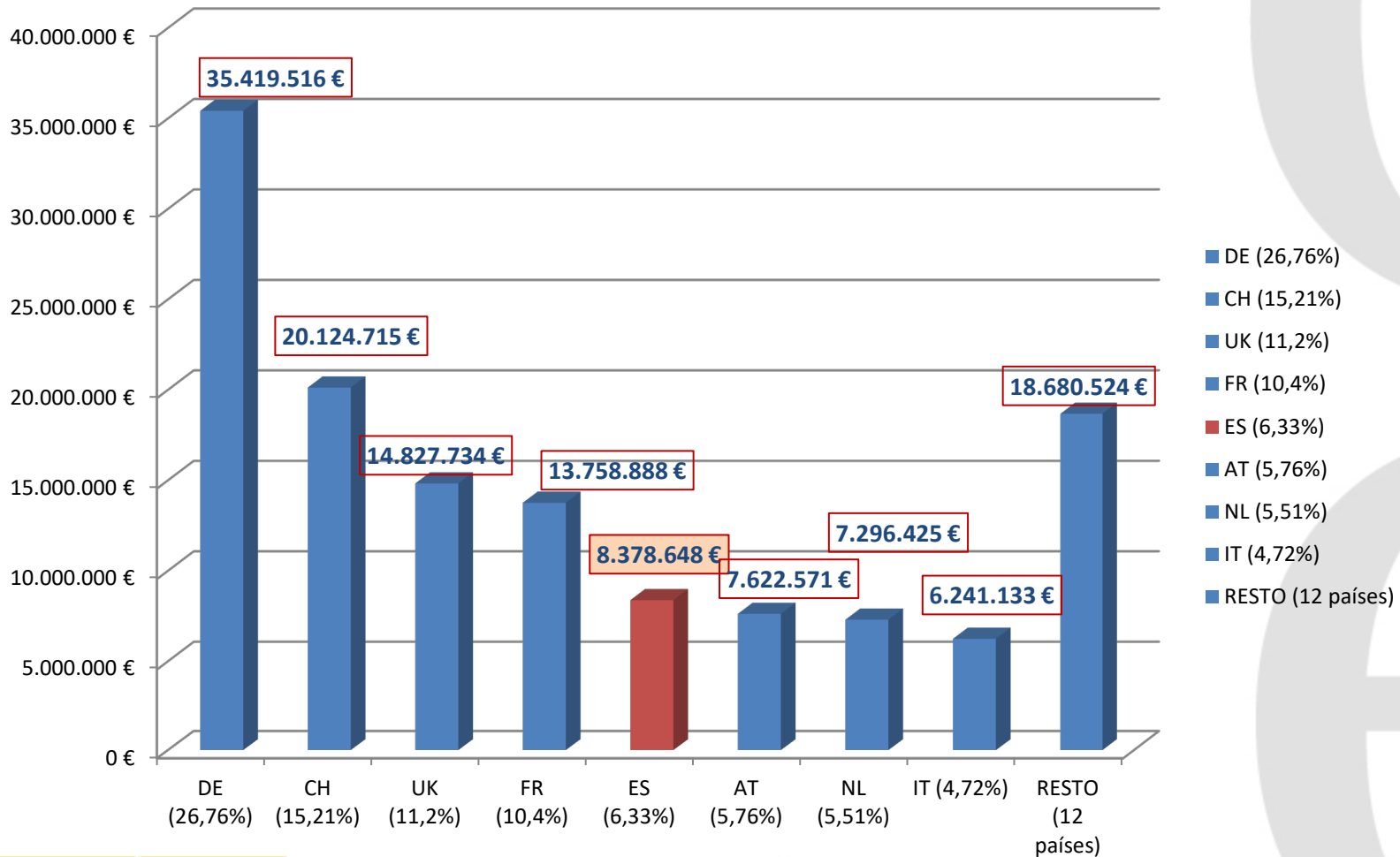
The Second Quantum Revolution is unfolding now, exploiting the enormous advancements in our ability to detect and manipulate single quantum objects. The Quantum Flagship is driving this revolution in Europe.

QT Flagship Governance



Resultados convocatoria Flagship QuTe 2018

Cifras retorno Convocatoria QuTe - 2018 RIA + CSA



Resultados convocatoria QuTe 2018

Entidades españolas en proyectos financiados.

Entidad	Nº participaciones	Coordinador/Socio
ICFO	7	2/5 (1 CSA)
UPM	1	0/1
VLC PHOTONICS	2	0/2
QUSIDE TECH SL	2	0/2
TELEFONICA I+D	1	0/1
UPV/EHU	2	0/2
TTI NORTE SL	1	0/1
CSIC	1	0/1
UVEG	1	0/1
TOTAL	18	2/16

Próximas convocatorias QuTe en H2020 FET WP2020: Quantum Technologies*

- **Topic : Semiconductor Quantum computing and Quantum software development – 19,7M€:**
 - Hardware (RIA up to 15M€ - 4 years)
 - Software (RIA up to 4,7M€ - 4 years)
 - **Topic: CSA on international Cooperation in QT (USA, Canada and Japan) – 500.000 €**
 - **Topic: CSA on Training and Education on Quantum Technologies – 300.000 €**
 - **Topic QuantERA II – Aprox. 20M€**
- Abren el 9 julio y cierran el 13 de noviembre de 2019**
- Abre el 6 de febrero 2020 y cierra el 7 de mayo 2020**

Resultados Quanterra 2017

Project name	Institution	PI name
Controlling EPR and Bell correlations in atomic Bose-Einstein condensates	UPV/EHU	Géza Tóth
ORganic QUantum Integrated Devices	ICFO	Frank Koppens
Cavity-Enhanced Quantum Optical Clocks	ICFO	Morgan MITCHELL
Scaling Up quantum Computation with MOlecular spins	Quanterra 2019 <ul style="list-style-type: none"> • 85 propuestas en total • 33 socios españoles en 29 proyectos • Presupuesto AEI: € 500.000 (3-4 proyectos) 	
QUANTum Technolog with 2D-Oxides		
Towards Room Temperature Quantum Technologies		

6 proyectos:

- 2 ICFO
- UPV
- CSIC
- UCM
- UAM

Financiación total AEI-MINECO: 795 k€

Otras convocatorias de interés QT en el Programa FET

Tipo de acción	Presupuesto		Deadlines
	2019	2020	
FETOPEN-01-2018-2019-2020 (RIA)	160,40 M€	196,20 M€	27 septiembre 2019 13 mayo 2020
FETOPEN Innovation Launchpad	2,70 M€	3,00 M€	9 octubre 2019 14 Oct 2020

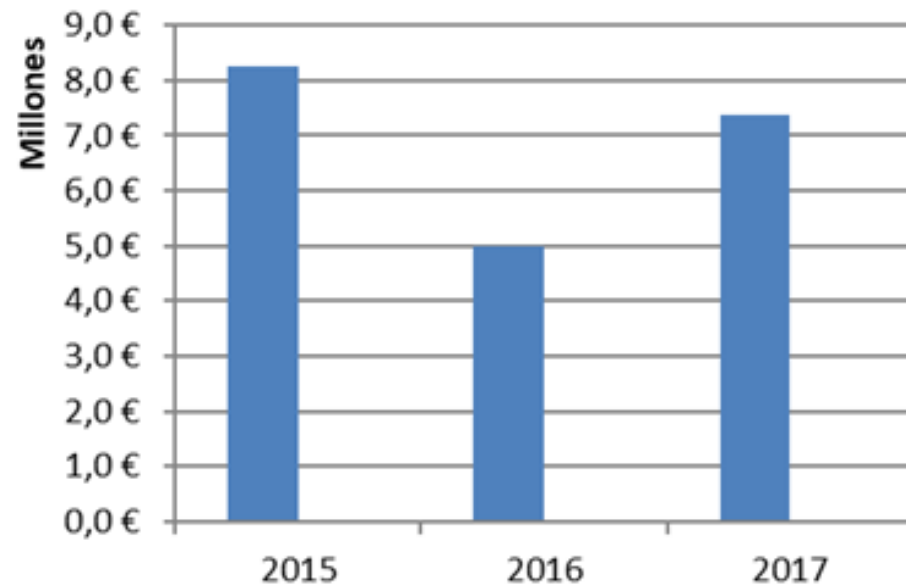
Tipo de acción	Presupuesto		Deadlines
	2019		
FETPROACT-EIC-06-2019: EIC Transition to Innovation Activities	16M€		3 de septiembre 2019

Financiación Plan Estatal en QT (2015-2017)



Iniciativas Plan nacional

Año	Concedido €	Nº proy
2015	8.243.107	83
2016	4.992.535	47
2017	7.380.806	80
Total	20.616.448	210



Búsqueda basada en:

- Convocatorias 2015-17
- Palabras claves: combinaciones de cuantic; quantum; qbit; quantum dot; fotonic; nanofoton;
- Áreas de Físicas, Ciencia y Tecnologías Químicas, Matemáticas y Tecnologías de Comunicación e Informática



¡MUCHAS GRACIAS!

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