



# Horizon 2020 Calls

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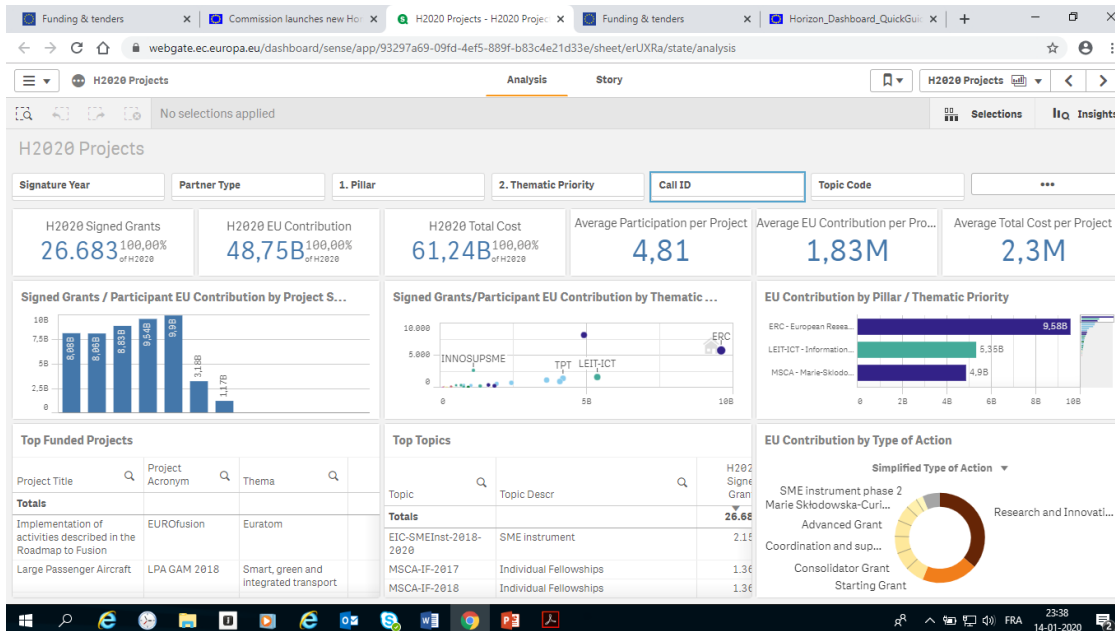
# Horizon 2020

A screenshot of a web browser displaying the European Commission's "Funding &amp; tender opportunities" portal. The browser's address bar shows the URL: https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search. The page header includes the European Commission logo and the text "Funding &amp; tender opportunities" and "Single Electronic Data Interchange Area (SEDIA)". There are buttons for "Register" and "Login" in the top right corner. A navigation menu below the header includes "SEARCH FUNDING &amp; TENDERS" (highlighted in yellow), "HOW TO PARTICIPATE", "PROJECTS &amp; RESULTS", "WORK AS AN EXPERT", and "SUPPORT". A blue banner below the navigation menu reads "Horizon 2020 Framework Programme (H2020)" with a globe icon and a "clear filter" button. The main content area is divided into a left sidebar and a main panel. The sidebar contains a search box with the placeholder "Type your Keywords", a search button, and checkboxes for "Match whole words only", "GRANTS" (checked), and "TENDERS". Below this is a "Filter by submission status" section with three buttons: "FORTHCOMING", "OPEN", and "CLOSED". The main panel is titled "Funding and tenders" and shows "3689 results". It has a "Sort by:" section with radio buttons for "opening date" (selected), "title", "ID", and "deadline". There is a section for downloading opportunities to a calendar or RSS feed, and an "Online manual" button labeled "Find a grant". A partial list of results is visible at the bottom, starting with "Grant Societal and political engagement of young people and their perspectives on". The Windows taskbar is visible at the bottom of the screenshot, showing the time as 14:48 on 20-11-2019.

<https://ec.europa.eu/info/funding-tenders/opportunities/portal>

# H2020 Dashboard

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard>



# Workprogramme 2020

*Transition towards Horizon Europe (maximising impact)  
Research and Development but also proof-of-  
concept prototypes, demonstration, assessments,  
platform-building activities and pilots.*

*They will contribute to:*

- overcome the acceptance barrier*
- increase trust and convince potential users*
- express additional value benefits for diversified communities*
- provide seeds for new projects of the proposers*
- develop mechanisms for facilitating value creation in the real economy*

## Focus areas in WP2020

Technology convergence cutting across the programme boundaries.

*Building a low-carbon, climate resilient future*

*Connecting economic and environmental gains – the Circular Economy*

*Digitising and transforming European industry and services*

*Boosting the effectiveness of the Security Union*

# Photonics calls in ICT Workprogramme 2020

ICT-36-2020 Disruptive photonics technologies

ICT-37-2020 Advancing photonics technologies  
and application driven photonics components  
and the innovation ecosystem

DT-ICT-04-2020\* Photonics Digital Innovation  
Hubs

\* *Digitising and transforming European industry and  
services: digital innovation hubs and platforms*

# ICT-36-2020 Disruptive photonics technologies

## Research & Innovation Actions [**47.5 M€**]

- i. 3D light field and holographic displays
- ii. Packaging and module integration for photonic integrated circuits (PIC)
- iii. Light to Fuel
- iv. Next generation biophotonics methods and devices as research tools to understand the cellular origin of diseases

# **ICT-37-2020 Advancing photonics technologies and application driven photonics components and the innovation ecosystem**

## **Research & Innovation Actions [30 M€]**

- i. Flexible Farm-to-Fork Sensing
- ii. Novel Photonics Integrated Circuit (PIC)  
Technology building blocks

## **Innovation Actions [15 M€]**

- iii. Smart Photonic Sensing for Environmental  
Pollution Detection



## DT-ICT-04-2020: Photonics Innovation Hubs

### Innovation Actions [19M€]

The challenge is to provide a **sustainable ecosystem** of research and innovation support for the benefit of SMEs facilitating a broad uptake and integration of photonics technologies.

These Photonics Innovation Hubs will help speed up the uptake of photonics technologies in order to make European industry more competitive and foster new business and business models.

Business cases must be industrially relevant and should include industrialisation steps to TRL of 7 - 8

## Digital Innovation Hubs

***One-stop-shop*** access, supported through a ***network of competence centres***, to services and capabilities such as *expertise, training, prototyping, design, engineering, business support, financing advice,...* *pilot manufacturing for first users and early adopters enabling the wider up-take and deployment of technologies in innovative products.*

# DT-ICT-12-2020: AI for the smart hospital of the future

Actions 7-10 M€

Innovation Actions [40 M€]

***Piloting** at scale is needed to prove the transformative impact of AI.*

*Pilots should enable or support **diagnosis and treatment**, carried out with clinical outcomes comparable to human delivered procedures.*

*Proposal should be developed with **health and care facility partners***



Closing: 22 Apr 2020

# Future and Emerging Technologies Pro-active

Neuromorphic computing technologies 15 M€

FETPROACT-09-2020 (RIA)

Emerging paradigms and communities 50 M€

FETPROACT-EIC-07-2020 (RIA)

## **FETPROACT-09-2020: Neuromorphic computing technologies**

*Research & Innovation Actions [15 M€]*

...to create neuromorphic technologies that can outperform current systems in terms of size, scalability, connectivity, power consumption, ease of training, flexibility, reliability or any other relevant metrics

...including hardware, related algorithms and programming framework

## FETPROACT-EIC-07-2020 : FET Proactive: emerging paradigms and communities

*Research & Innovation Actions [50 M€]*

Cutting-edge **high-risk / high-reward research and innovation** projects that aim to demonstrate a new technological paradigm

Sub-topics:

- a. Future technologies for social experience
- b. Sub-nanoscale science for nanometrology
- c. Digital twins for the life-sciences

# Thank you!



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**<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>**