

#innovacion  
#ayudascdti  
#asesoramiento  
#internacionalizacion



## Clúster 4 / Digital - Partenariados

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2023

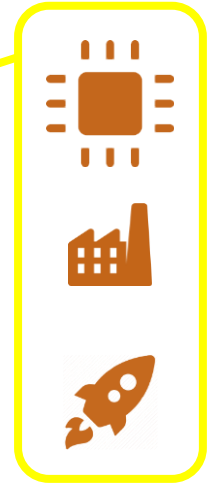
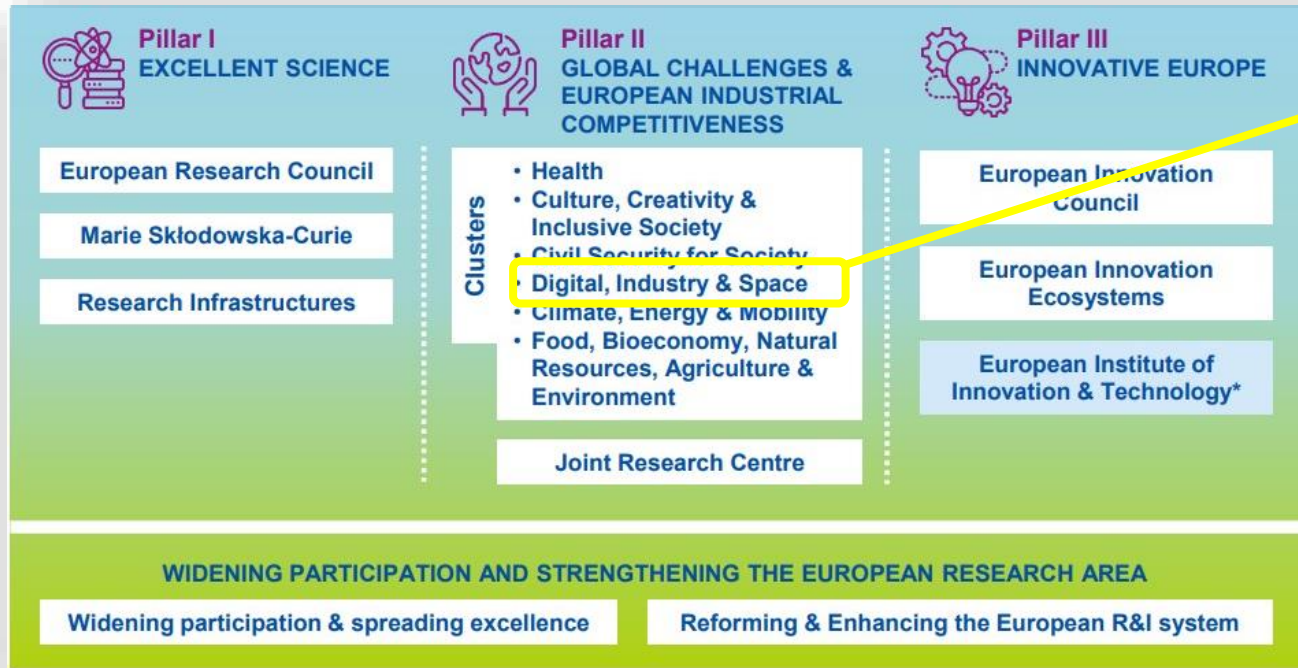




# HORIZON EUROPE

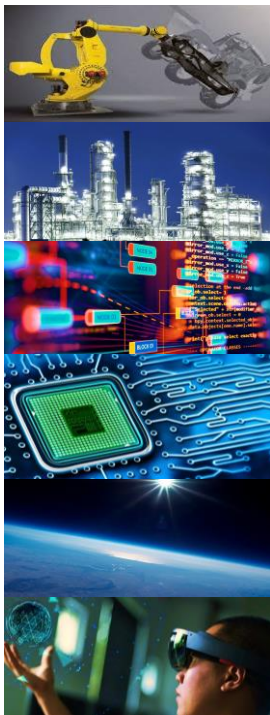
THE EU RESEARCH &  
INNOVATION PROGRAMME

# Horizonte Europa / Clúster 4



~ 15.000 M€

# Clúster 4 - Destinos



CLIMATE NEUTRAL, CIRCULAR AND DIGITISED **PRODUCTION**

INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR **RESILIENT** INDUSTRY

WORLD LEADING **DATA** AND **COMPUTING** TECHNOLOGIES

**DIGITAL AND EMERGING** TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL

OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL **SPACE-BASED** INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA

A **HUMAN-CENTERED** AND ETHICAL DEVELOPMENT OF **DIGITAL AND INDUSTRIAL** TECHNOLOGIES

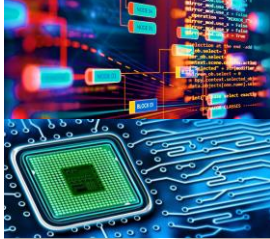
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# C4-DIGITAL / “Data”



▪ Data Sharing



▪ Cloud-Edge

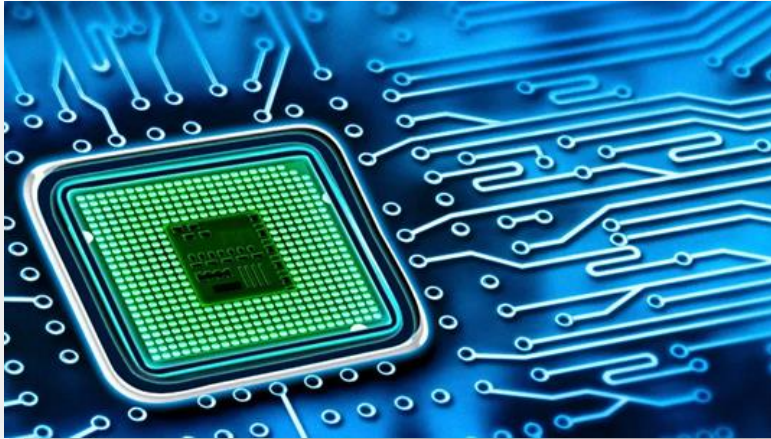


▪ Analytics



▪ Computing

# C4-DIGITAL / “Emerging”



▪ Electronics (KDT-JU )



▪ Photonics



▪ 6G ( SNS-JU )



▪ AI/Data/Robotics



▪ Emerging technologies



▪ Quantum



▪ Graphene/2D materials

# C4-DIGITAL / “Human”



- AI based on trust



- Internet of trust / NGI



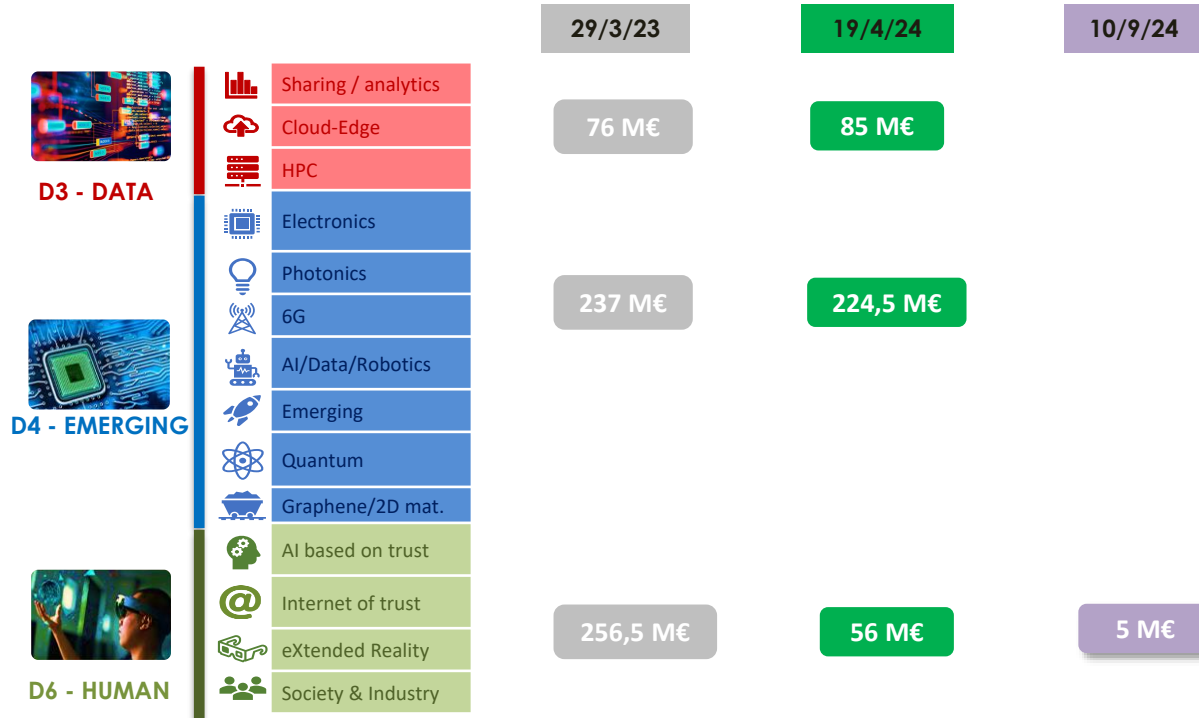
- eXtended Reality (XR)



- Society & Industry



# C4-DIGITAL / Presupuesto



# Partenariados

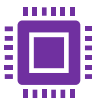


# C4 - DIGITAL / Partenariados

Institucionalizados



- High Performance Computing (EuroHPC JTI)



- Key Digital Technologies (KDT JTI) >> **Chips JU**



- Smart Networks and Services (SNS JTI)

Co-programados



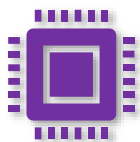
- AI / Data / Robotics



- Photonics

# C4 - DIGITAL / Partenariados

Institutionalised



>> Chips-JU



**EuroHPC**  
*Joint Undertaking*



# EuroHPC JU / Temática



- Selection of sites and deployment of **new EU** petascale, pre-exascale and exascale **supercomputers**. ( & Upgrading existing supercomputer infrastructures).



- Selection and acquisition of different technologies of **quantum computing** to be installed side-by-side to EU supercomputing facilities.



- Creation of a network of **Centres of Excellence on EU supercomputing** facilities and services.



- Support for **research activities** on High Performance Computing: algorithms, architectures, energy efficiency, etc.



- Launch of a new initiative on EU research **on RISC-V technologies**.



- Future approach towards **High Performance Computing for Artificial Intelligence**.

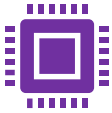


# EuroHPC JU / Presupuesto

Total budget of around **EUR 7 billion** for the period 2021-2027, including:



- **EUR 1,9 billion** from the Digital European Programme (DEP) to support the **acquisition, deployment, upgrading and operation of the infrastructures**, the federation of supercomputing services, and the widening of HPC usage and skills;



- **EUR 900 million** from Horizon Europe (HE) to support **research and innovation activities** for developing a world-class, competitive and innovative supercomputing ecosystem across EU



- **EUR 200 million** from Connecting Europe Facility-2 (CEF-2) to improve the **interconnection of HPC, quantum computing, and data resources**, as well as the interconnection with the Union's common European data spaces and secure cloud infrastructures.

# Puntos Nacionales de Contacto (NCP) – C4-DIGITAL

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+ info sobre programas y ayudas  
para la  
internacionalización de la I+D+I española



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