

#innovacion  
#ayudascdti  
#asesoramiento  
#internacionalizacion



@CDTIficial



HORIZONTE  
**EUROPA**  
@HorizonteEuropa

## Cluster 4 - Digital

Enrique Pelayo Campillos



**PRELIMINARY**

# Index

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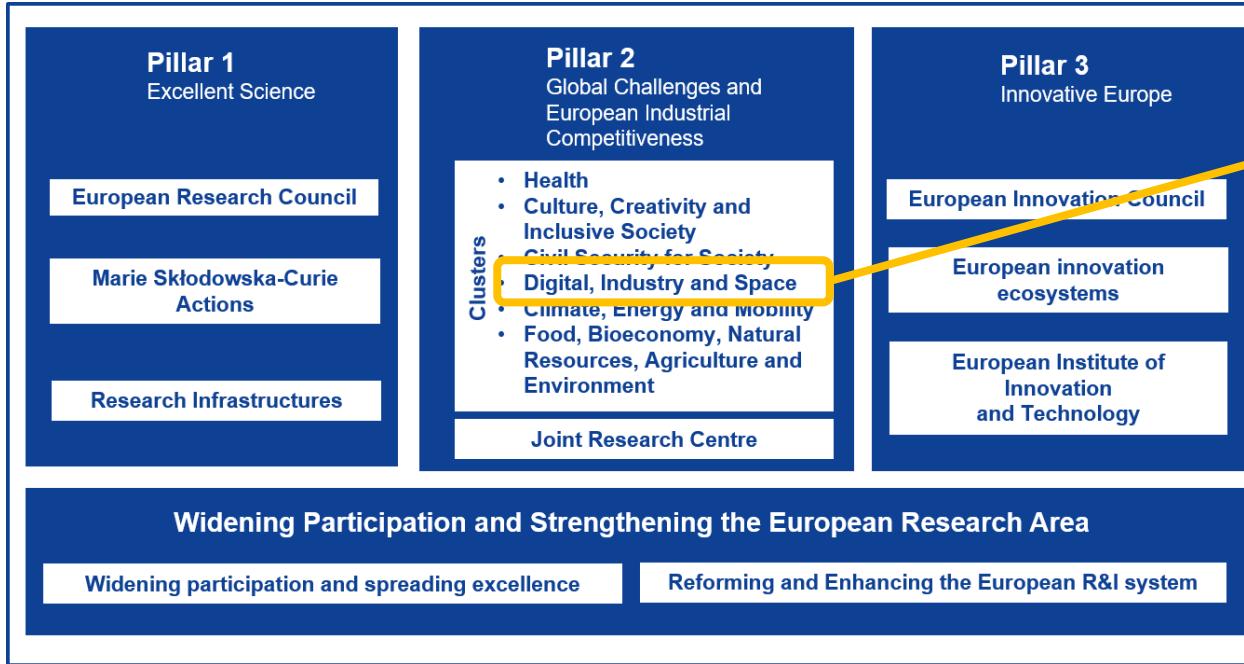


**Cluster 4**



**C4 - Digital**

# Context – Horizon Europe / cluster 4



# Cluster 4 - Destinations

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**D1 – Climate neutral, circular and digitised *production*** TWIN-TRANSITION



**D2 – A digitised, resource-efficient and resilient *industry***



**D3 – World leading *data* and *computing* technologies**



**D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal**



**D5 – Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data**



**D6 – A *human-centred* and ethical development of digital and industrial technologies**

# Cluster 4 - INDUSTRY



**D1 – Climate neutral, circular and digitised *production* TWIN-TRANSITION**

**D2 – A digitised, resource-efficient and resilient *industry***

**D3 – World leading *data* and *computing* technologies**

**D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal**

**D5 – Strategic autonomy in developing, deploying and using global *space-based infrastructures*, services, applications and data**

**D6 – A *human-centred* and ethical development of digital and industrial technologies**

# Cluster 4 - SPACE

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D1 – Climate neutral, circular and digitised *production* TWIN-TRANSITION



D2 – A digitised, resource-efficient and resilient *industry*



D3 – World leading *data* and *computing* technologies



D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal

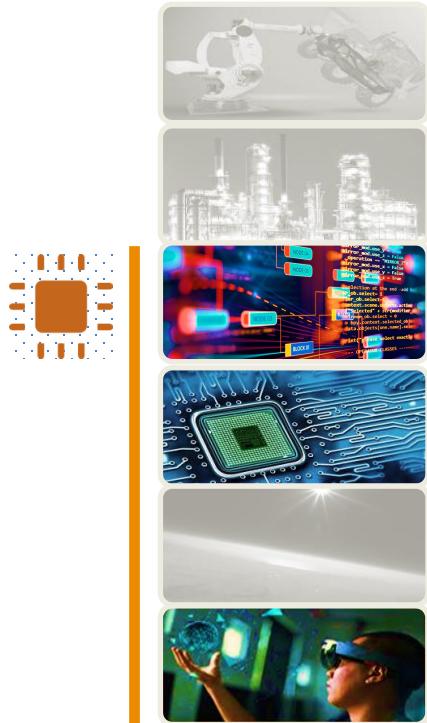


D5 – Strategic autonomy in developing, deploying and using global *space-based infrastructures, services, applications and data*



D6 – A *human-centred* and ethical development of digital and industrial *technologies*

# Cluster 4 - DIGITAL



**D1 – Climate neutral, circular and digitised *production* TWIN-TRANSITION**

**D2 – A digitised, resource-efficient and resilient *industry***

**D3 – World leading *data* and *computing* technologies**

**D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal**

**D5 – Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data**

**D6 – A *human-centred* and ethical development of digital and industrial technologies**

# C4 / Destination 3 - DATA



Sharing / analytics

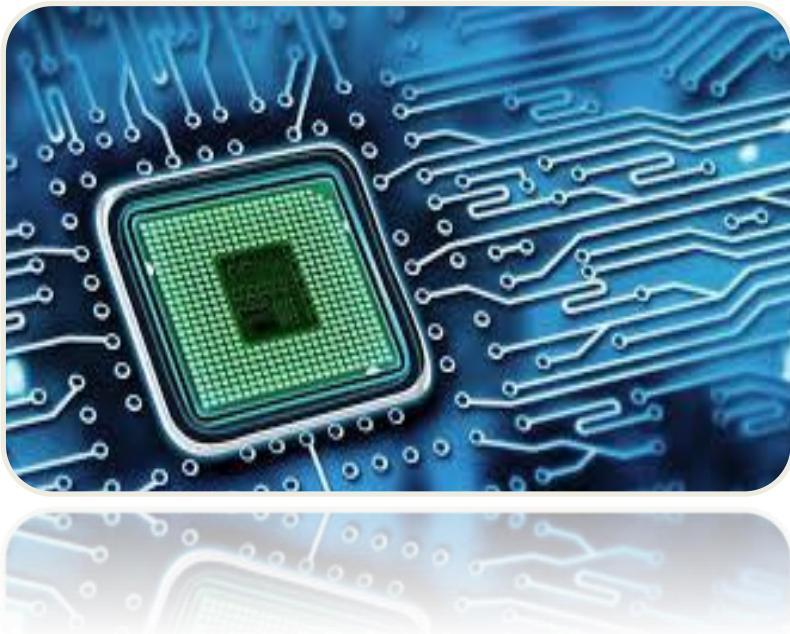


Cloud-Edge



HPC ([EuroHPC-JU](#))

# C4 / Destination 4 – EMERGING TECHS.



-  Electronics (**KDT-JU**) / Low power proc.
-  Photonics
-  6G ( **SNS-JU** )
-  AI/Data/Robotics
-  Emerging
-  Quantum
-  Graphene

# C4 / Destination 5 – HUMAN



AI based on trust



Internet of trust



eXtended Reality



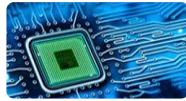
Society & Industry

**PRELIMINARY**

# C4 – DIGITAL: WP 2021-22



**D3 - DATA**



**D4 - EMERGING**



**D6 - HUMAN**

	Sharing / analytics
	Cloud-Edge
	HPC
	Electronics /Low power proc.
	Photonics
	6G
	AI/Data/Robotics
	Emerging
	Quantum
	Graphene
	AI based on trust
	Internet of trust
	eXtended Reality
	Society & Industry

**2021**

Privacy, Management, Xtreme

OS-Platform, [CSAs]

EuroHPC

ULP, Open Source HW, Functional elec. / KDT

Communication, PIC

[CSA] / SNS

Green AI, AI @Work, Robot Cognition, Excellence Centers

Spintronic, Biointelligent, [CSA]

[FPAs]: Computer, simulation, Comm, Pilot, sensing, Int-Canada,  
Emerging, Invest, [CSAs]

Trustworthy AI, Excellence Centers, biases, disinformation [CSA]

Data sovereignty, discovery, [CSAs-NGI]

Modelling, Haptics, Telepresence, Media, [CSA]

Local communities, Art-driven, Skills-I5.0, [CSAs]

**2022**

Trading, Understanding

Cloud, Tools

EuroHPC

Open Source Cloud / KDT

MultiSensing

SNS

AI @Industry, Robot Intelligence, Robot @sectors

Nano @environment

[SGAs]: Computer, simulation, internet, encryption, testing,  
production, SW, Basic Science

Sensors, Energy, Biomedical, Composites, [CSA]

Human empowerment, AI-lighthouse

Decentraliced, safer internet, NGI collab (USA, Canada)

XR Techs, Learning

**PRELIMINARY**

# C4 – DIGITAL: Budget 2021/22



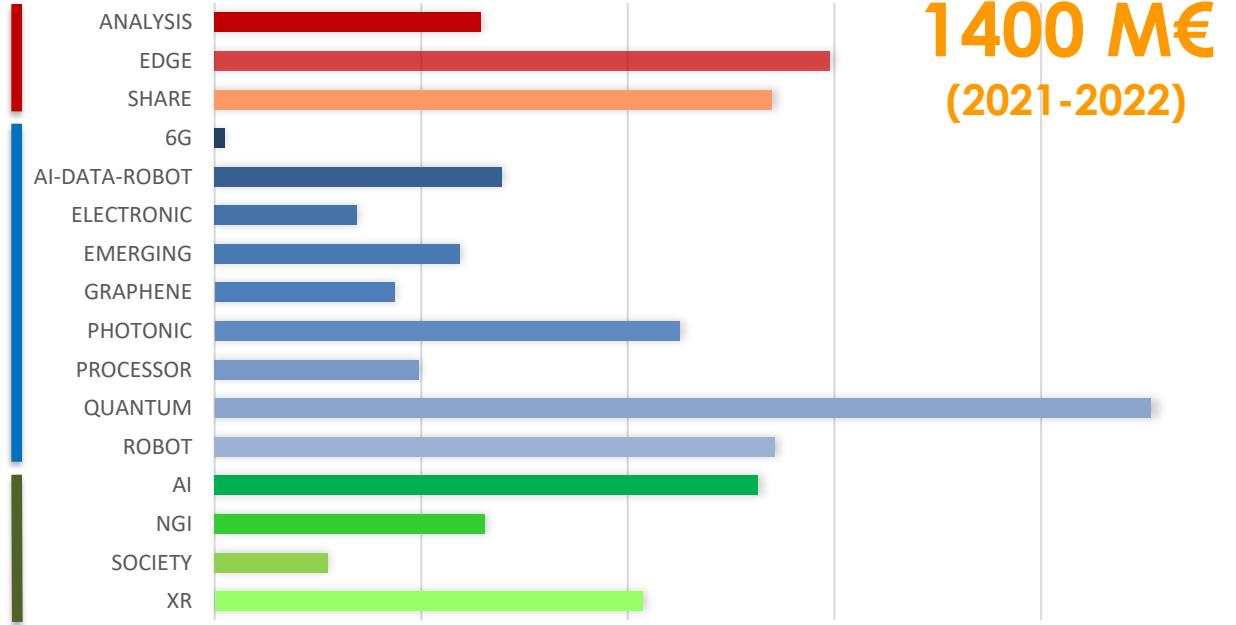
**DATA  
25%**



**EMERGING  
52%**



**HUMAN  
23%**



**1400 M€  
(2021-2022)**

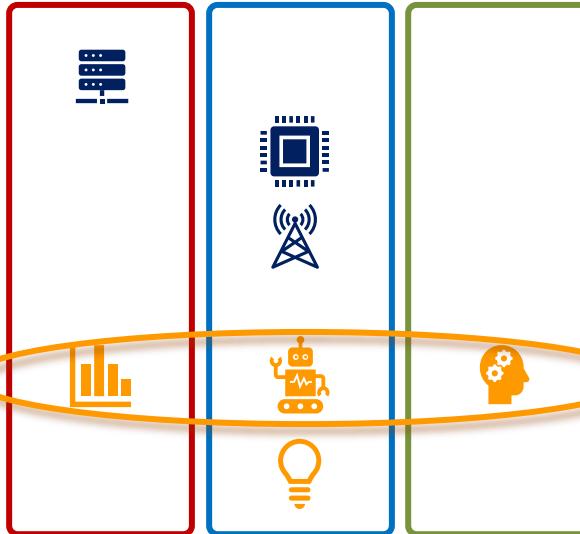
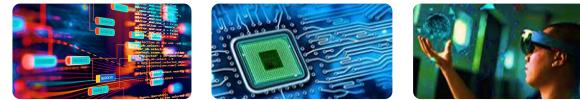
# C4 - DIGITAL – Partnerships

JTIs

- High Performance Computing (EuroHPC) ....
- Key Digital Technologies (KDT) .....
- Smart Networks and Services (SNS) .....

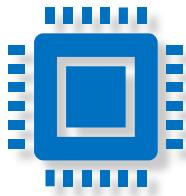
co-prog.

- AI / Data / Robotics .....
- Photonics .....



# Conclusions

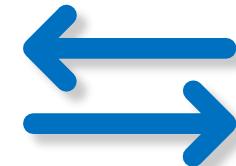
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Technology  
Development



Partnerships



Changes

# National Contact Points - DIGITAL

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[fernando.martin@cdti.es](mailto:fernando.martin@cdti.es)





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



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