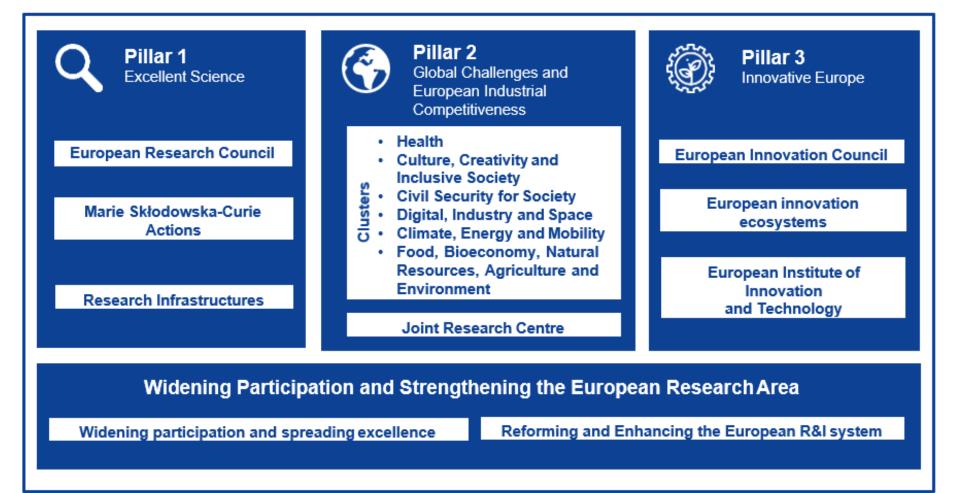


<u>Cluster 4</u> <u>"Digital, Industry and Space"</u>

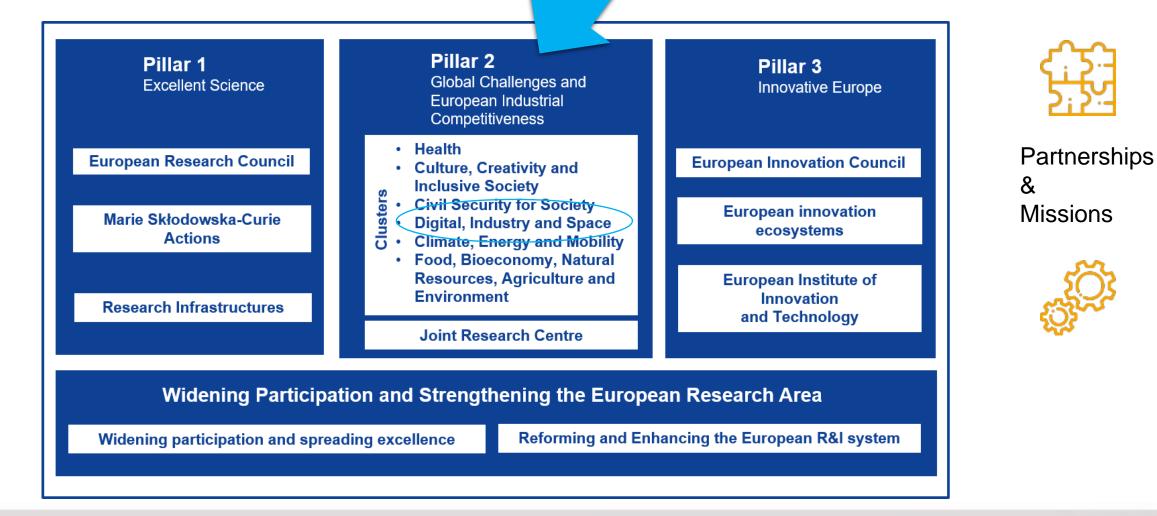
7 of July 2023

Diego Coglitore HE Cluster 4 - Competence Team Member APRE- Agency for the Promotion of European Research

Horizon Europe

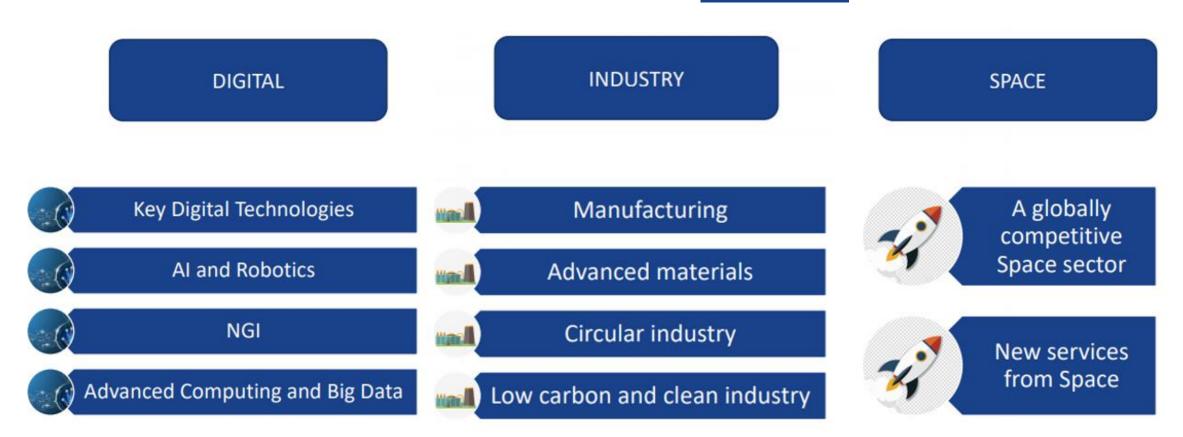


Digital, Industry and Space



CLUSTER 4 – AREAS OF INTERVENTION 2021

2021-2027



Emerging enabling technologies: Graphene, Quantum Technologies, spintronics, smart materials





CL4: Digital, Industry and Space - Objectives

- □ Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures (networks, data centres)
- Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials
- Sovereignty in digital technologies and in future emerging enabling technologies by strengthening European capacities in key parts of digital and future supply chains
- Globally attractive, secure and dynamic data-agile economy by developing and enabling the uptake of the next-generation computing and data technologies and infrastructures (including space infrastructure and data)
- Strategic autonomy in conceiving, developing, deploying and using global space-based infrastructures, services, applications and data
- **¬** A human-centred and ethical development of digital and industrial technologies



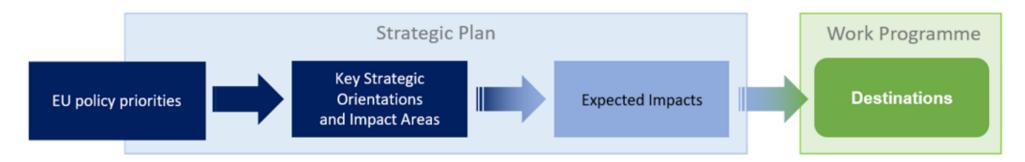
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Cluster 4 - Policy Framework



Horizon Europe delivers on EU policy priorities

From EU priorities to Work Programme Destinations



- The strategic plan sets out strategic orientations and impacts areas for research and innovation investments under Horizon Europe for four years (first HE strategic plan covers the period 2021-2024). The key strategic orientations and impact areas are formulated on the basis of expected impacts.
- Each expected impact is targeted via dedicated packages of actions in the work programme. These are termed
 destinations, because they indicate both the specific direction and the ultimate point of arrival of the projects to be
 supported through Horizon Europe.
- The work programmes (WPs) include the research and innovation activities to be funded under Horizon Europe for two years (first HE WP covers the period 2021-2022). ERC and EIC WPs will be annual.





What does this mean for Cluster 4? Strategic Priorities

From EU priorities to Work Programme Destinations



Cluster 4 directly supports the following three Key Strategic Orientations outlined in the Strategic Plan 2021-2024:

- Promoting an open strategic autonomy by leading the development of key digital, and enabling and emerging technologies, sectors and value chains (A)
- Making Europe the first digitally enabled, circular, climate-neutral and sustainable economy (C)
- Creating a more resilient, inclusive and democratic European society (D)

Cluster 4 Destinations and connected Expected Impacts

Destination 1 (WP2023-2024) - Climate neutral, circular and digitized production

Expected Impact 2021-24: Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures

D2 (WP23-24) - Increased autonomy in key strategic value chains for resilient industry

Expected Impact 2021-24: Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials

D3 (WP23-24) - World leading data and computing technologies

Expected Impact 2021-24: Globally attractive, secure and dynamic data-agile economy

D4 (WP23-24) - Digital & emerging technologies for competitiveness and fit for the Green Deal

Expected Impact 2021-24: Sovereignty in digital technologies and in future emerging enabling technologies

5 D5 (WP23-24) - Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data

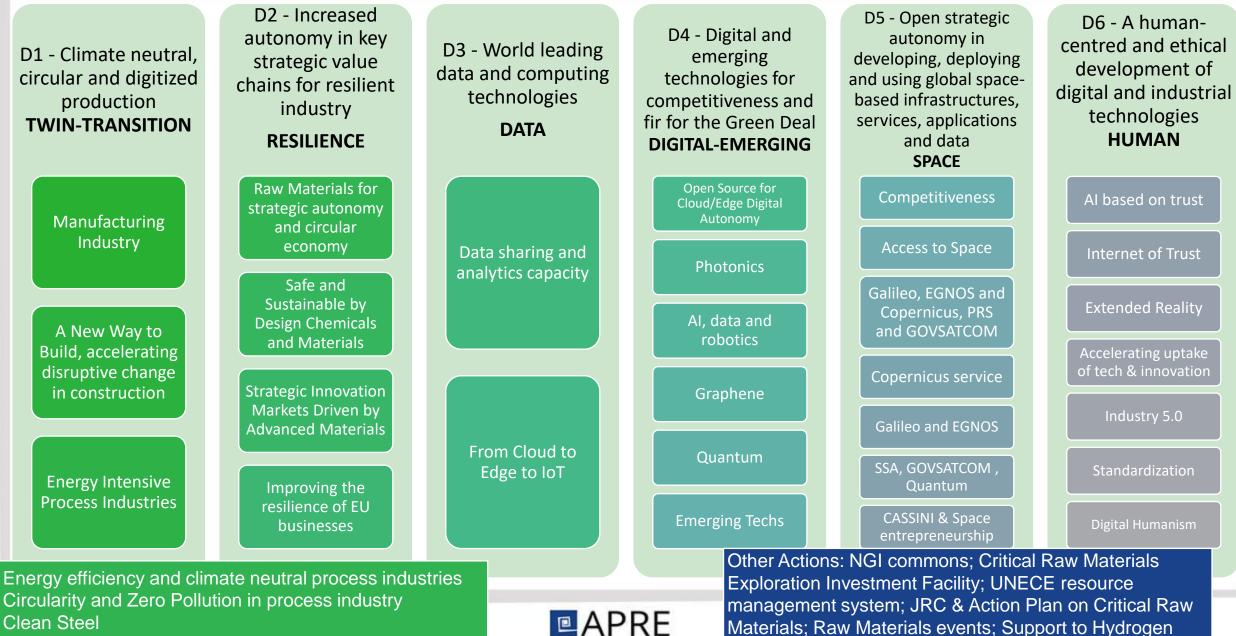
Expected Impact 2021-24: Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data

D6 (WP23-24) - A human-centred & ethical development of digital and industrial technologies

Expected Impact 2021-24: A human-centred and ethical development of digital and industrial technologies

Cluster 4 – Work Programme 2023-24 Overview





Cluster 4 Complementarities - European Partnerships

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DID YOU (KNOW?

European Partnerships are initiatives where the EU, together with private and public partners, commit to jointly support the development and implementation of a programme of research and innovation activities. The partners could represent industry, universities, research organisations, bodies with a public service remit at local, regional, national or international level or civil society organisations, including foundations and NGOs. Partnerships are not new - they were first introduced in 2002 as part of the European Research Area to overcome fragmentation of research effort. **3 Istitutional partnerships (Art.187, Public-Private)** EuroHPC JU Key Digital Technologies JU (ex ECSEL JU) Smart Networks and Services JU (ex 5G PPP)

7 Co-programmed partnerships

Made in Europe (ex FoF) Process4Planet - Carbon neutral Circular Industry Clean steel (ex SPIRE) AI, Data and Robotics Photonics Globally competitive Space Systems (Proposed 2023)

1 Istitutional partnership (Art. 185, Public-Public) European Partnership on Metrology

Next call in 2023

How to participate

Rules for participation



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Horizon Europe Strategic Plan 2021-2024 05 02 03 04 01 **CALL FOR** SUBMISSION OF WORK **EVALUATION** -INVITATION TO PROGRAMME 21-22 PROPOSALS PROPOSALS SELECTION GRANT «PROGRAMME 23-24» Multiannual Published in F&T Eligible entities 2-3 Independent Validate Portal Prepared by EC Experts Through F&T Inform 1 or 2 Stages Thematic portal Consensus Prepare Priorities Specific Aim & Templates Panel Review Sign Grant Rules, Eligibility, Objectives Digital procedure Evaluation Agreement Selection, Specific Rules, (fully online) Summary Report Award Criteria Eligibility, budget

Get ready for Horizon Europe Calls

How to prepare for HE



Study the Policies

- Strategic Plan 2021-24
- Strategic Plan Analysis
- General Intro of WP 23-24



Identify your call

- Scan the WP to find a relevant call to your interests
- Study carefully the call text
- Study General Annex of WP

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Start building

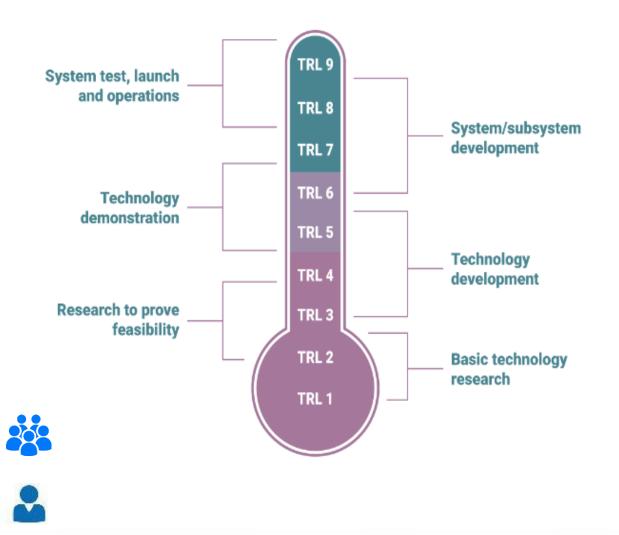
- Study the new Proposal Template
- Prepare your concept
- Build your consortium
- Legal Documents (MGA, CA)

Type of Actions

- Research and Innovation Actions RIA 100% Funding Rate + 25% Indirect Costs
- Innovation Actions IA
 70% Funding Rate + 25% Indirect Costs (with exception of no-profit entities)
- Coordination and Support Actions CSA 100% Funding Rate + 25% Indirect Costs

Some calls may require Financial Support to Third Parties

> European Commission



How to participate? Eligibility Condition for RIA and IA

Consortium composition: at least **three independent legal entities** established in **three different Member States** or Associated Countries, of which **at least one** is an independent legal entity established in a **Member State !**

Associated countries in Horizon Europe (with applicable association agreements in place)

Albania	Israel	Serbia
Amenia	Kosovo*	<u>Turkey</u>
Bosnia and Herzegovina	Moldova	Tunisia
Faroe Islands	Montenegro	Ukraine
Georgia	<u>North</u> Macedonia	
Iceland	<u>Norway</u>	

Link: Updates on the association of third countries to Horizon Europe | European Commission (europa.eu)



International Cooperation with Horizon Europe Third Countries

- Low and middle income countries (with EU financial

contribution)

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- Other countries without EU funding

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