PERIN Portugal in Europe Research and Innovation Network

Apresentação geral do novo Programa de Trabalhos 2023-2024

Cluster 4 – Digital & Industry

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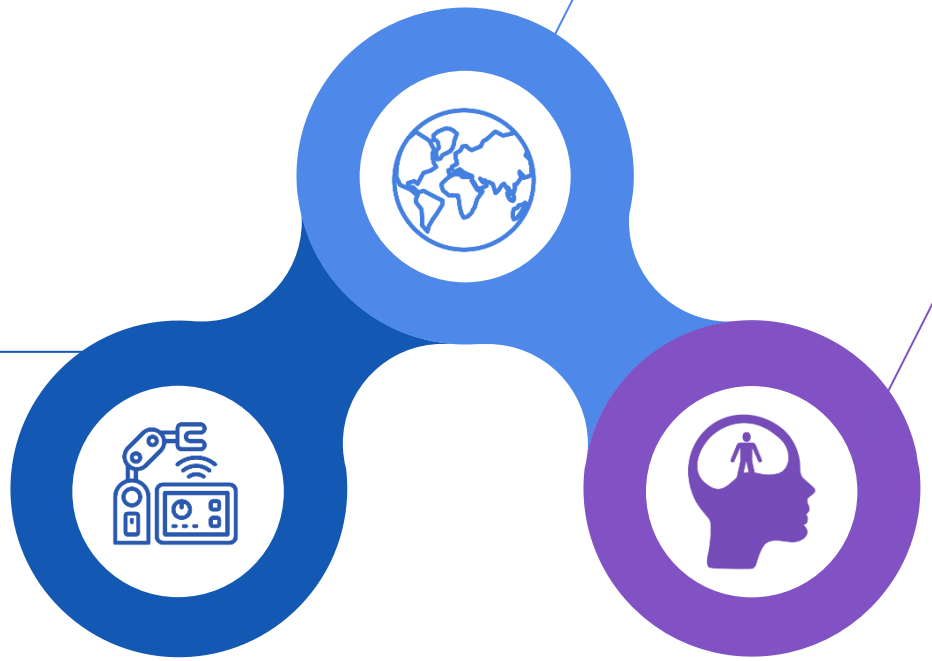
FCT Fundação para a Ciência e a Tecnologia | ANI Agência Nacional de Inovação | DGES Direção-Geral do Ensino Superior | Portugal Space | AICIB | Ciência Viva Agência Nacional para a Cultura Científica e Tecnológica | agência nacional erasmus educação e formação

Cluster 4 - Vision

Competitive technologies respecting the boundaries of our planet, and reflecting human needs

Green and digital 'twin' transitions



Climate-neutral, circular and clean industry

Industrial and digital transformation

- mastering technologies
- deploying technologies and technology infrastructures
- securing autonomy in strategic value chains

Major contribution to inclusiveness and resilience

- human-centred and ethical developments
- engagement with users, workers, citizens
- social innovation

Cluster Digital, Industry and Space

6 "destinations", 6 expected impacts

2,3 b€

PORTUGAL SPACE

• DESTINATION 1
Climate neutral, circular and digitised production

Global leadership

- Green, flexible and advanced manufacturing
- Enabling circularity of resources in the process industries, including waste, water and CO2/CO
- Advanced digital technologies for manufacturing
- Integration of renewables and electrification in process industry
- Increase productivity, efficiency

• DESTINATION 2
Increased autonomy in key strategic value chains for resilient industry

Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials

- Resilient, sustainable and secure (critical) raw materials value chains
- Materials with enhanced functionalities and sustainable-by-design
- Materials solutions for clean, toxic/pollutant free environment
- Raw materials for transition to a climate-neutral and circular economy
- Advanced materials

• DESTINATION 3
World leading data and computing technologies

Globally attractive, secure and dynamic data-agile economy

- Data sharing in the common European data spaces
- Strengthening Europe's data analytics capacity
- From Cloud to Edge to IoT for European Data

• DESTINATION 4
Digital and emerging technologies for competitiveness and fit for the green deal

Sovereignty in digital technologies and in future emerging enabling technologies

- Ultra-low power processors
- Electronics
- Photonics
- 6G and foundational connectivity
- AI, data and robotics
- Quantum Technologies
- Graphene

• DESTINATION 5
Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data

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

- Competitiveness of space systems
- Reinforce access to space
- Evolution of services: Copernicus
- Innovative space capabilities
- EU space sector
- Evolution of Galileo and EGNOS services and infrastructure

• DESTINATION 6
A human-centred and ethical development of digital and industrial technologies

A human-centred and ethical development of digital and industrial technologies

- Leadership in AI based on trust
- An Internet of Trust
- eXtended Reality (XR)
- Make the most of the technologies within society and industry

European Partnerships

Metrology

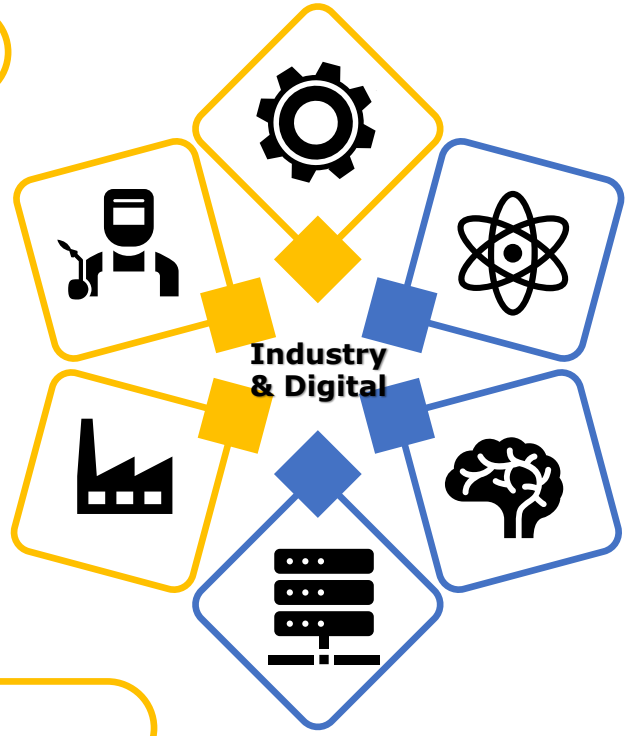
Accelerate metrology research, fit-for-purpose solutions

Photonics

Boost technological innovation as a driver for digital and industrial transformation

Clean Steel

Transforming the steel industry into a carbon-neutral and circular industry



Key Digital Technologies

Electronic and Photonic components and the software that defines how they work

Made in Europe

Driving a sustainable, competitive and resilient manufacturing industry, thorough digital transformation and circularity models

AI, Data and Robotics

Research, develop and deploy value-driven trustworthy AI, Data and Robotics

Process4Planet

Transforming process industries enhancing circularity, resource efficiency, and carbon neutrality

EuroHPC

Enhance supercomputing capacity

Smart Networks and Services

5G and beyond

Algumas novidades deste novo Programa de Trabalhos

- Introdução do esquema de financiamento “lump-sum” em alguns tópicos;
- As calls com 2 fases, serão submetidas ao piloto “blind evaluation”
- Nas IA em alguns tópicos das parcerias, a taxa de financiamento passará de 70% para 60% para entidades privadas
- Em alguns tópicos da D1 e D2 é solicitado um business case e exploitation strategy.

Deadlines

76 tópicos abertos em 2023

- **Deadlines:**
  - **29 de março (47 tópicos em aberto)**
  - **20 de abril (24 tópicos em aberto)**
  - **Two-stage calls (5 tópicos em aberto):**
    - **1ª cut-off: 7 de março**
    - **2ª cut-off: 5 de outubro.**

Algumas dicas para propostas de sucesso

- Estudem bem os templates – podem aceder aos mesmos através do Portal Funding & Tenders;
- Ler com cuidado os textos do tópico – todas as palavras contam!
- Comecem a preparar as vossas propostas com tempo! Pesquisem projetos passados/a decorrer para inspiração. Consultem os documentos estratégicos da Comissão Europeia.
- Um consórcio sólido e comprometido com a proposta é fundamental! Usem as vossas redes de contactos, as redes sociais, as ferramentas de partner searches, os eventos e os vossos NCPs!
- Escrevam propostas de leitura simples, com objetivos bem estruturados, Informação cuidada e de fácil leitura.
- Não submetam a proposta “em cima” da deadline!

CURIOUS ?

GET involved!

Get involved in the R&I priorities discussion | Grupo Nacional de Discussão do Horizonte Europa Pilar II & Pilar III*

For Portuguese entities only

Get informed of all the initiatives, calls and HE hot topics | Be part of our Contact's List

Contact us! We're here to help!

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PERIN

Portugal in Europe
Research and Innovation Network

Thank you!

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