



Support to the secretariat for the Alliance on Processors and Semiconductor Technologies

Info session

11th July 2025

CNECT-C3 and D1

Housekeeping rules

- When logging in, kindly type in your name and include your company's name e.g.: "John Doe (ACME)"
- All participants are **muted by default** to allow a smooth operation
- If you have a question...
 - You may enter it at any time in the **chatroom**, we will address them during the Q&A sessions.
 - During Q&A sessions, to request the floor, please use the "**raise your hand**" **button** or use the chatroom by typing "rts" (request to speak); the moderator will call you in sequence
- Slides of the presentation will be shared after the event

Agenda

14:00	Welcome <ul style="list-style-type: none">• Arian Zwegers, Deputy Head of Unit, CNECT C3 Microelectronics and Photonics
14:05	The Digital Europe Programme <ul style="list-style-type: none">• Kristina Kardum, Head of Sector CNECT DDG1.01, Research and Deployment Strategy and Programme Coordination
14:20	Support to the secretariat for the Alliance on Processors and Semiconductor Technologies <ul style="list-style-type: none">• Barbara Hadrys, CNECT C3 Microelectronics and Photonics
14:30	Q&A
15:00	End of the session



DIGITAL Europe Programme 2025-2027

Info session Secretariat Alliance

[#DigitalEuropeProgramme](#)

Kristina Kardum,
Head of Sector for DIGITAL
Unit D1 – Research Strategy and
Programme Coordination
DG CNECT



In this presentation...

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Policy background

2

Digital Europe Programme 2021-2027

3

New WP 2025-2027

4

Key considerations for the future



EU's Digital Decade: goals for 2030

Skills

ICT Specialists: 20 millions + Gender convergence

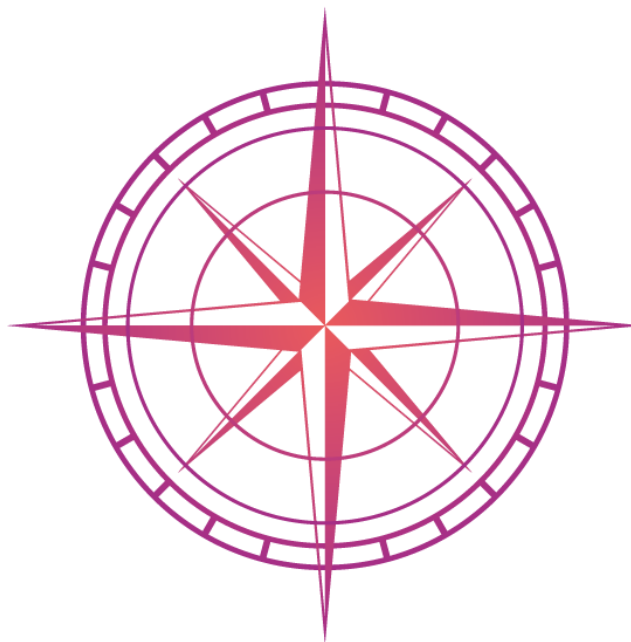
Basic Digital Skills: min 80% of population

Public Services

Key Public Services: 100% online

e-Health: 100% availability medical records

Digital Identity: 80% citizens using digital ID



Infrastructures

Connectivity: Gigabit for everyone, 5G everywhere

Cutting edge Semiconductors: double EU share in global production

Data, Edge & Cloud: 10,000 climate neutral highly secure edge nodes

Computing: first computer with quantum acceleration

Business

Tech up-take: 75% of EU companies using Cloud/AI/Big Data

Innovators: grow scale ups & finance to double EU Unicorns

Late adopters: more than 90% of European SMEs reach at least a basic level of digital intensity



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Europe's Digital Decade

2

Digital Europe Programme 2021-2027

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New WP 2025-2027

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Key considerations for the future



Digital Europe Programme: tech sovereignty



Build digital infrastructures and capacities

in critical sectors (AI, data spaces, cloud, supercomputing, chips, cybersecurity, digital transformation of public administration, skills)



Achieve scale through collective co-investments

Given the size of investments needed, scale required, and risks involved Europe needs to pool the resources together



Regain control over Europe's value chains

and ensure Europe's technological sovereignty



Better address Europe's economic and societal challenges

E.g. climate, health, mobility and public services



Ensure broad take-up of digital technologies across all regions of EU

In deploying latest technologies to offer best services to citizens and business



Support SMEs to acquire or access the latest technologies and skills

More than 400,000 EU vacancies in these fields



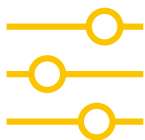
DIGITAL specific features



Focus on **delivery of results**; complementary with Horizon Europe → it makes use of the most recent research results, but it does not support research.



Some actions have **participation restrictions** for entities not in the EU or EEA → protecting the **security** and integrity of critical infrastructure and reducing the risk of **technology leakage**



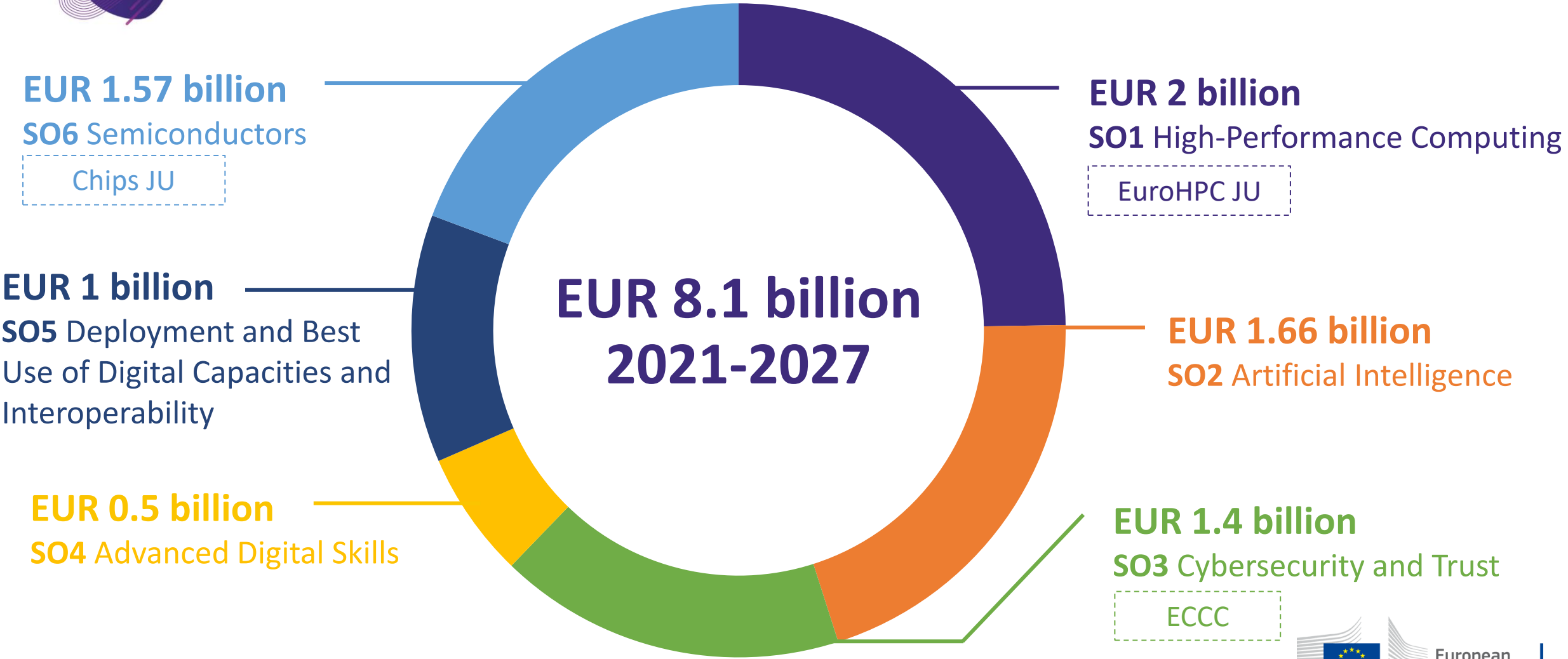
Possibility to use **different types of actions** (procurement, grants, financial instruments) and **management modes** → **flexibility** to adapt to new demands to support the digital transition



Grants cost reimbursement: **50%** (75% for SMEs) → attracts national, public and private investments



Digital Europe Programme: 2021-2027





Digital Europe Programme: 2025-2027

EUR 352.3 million

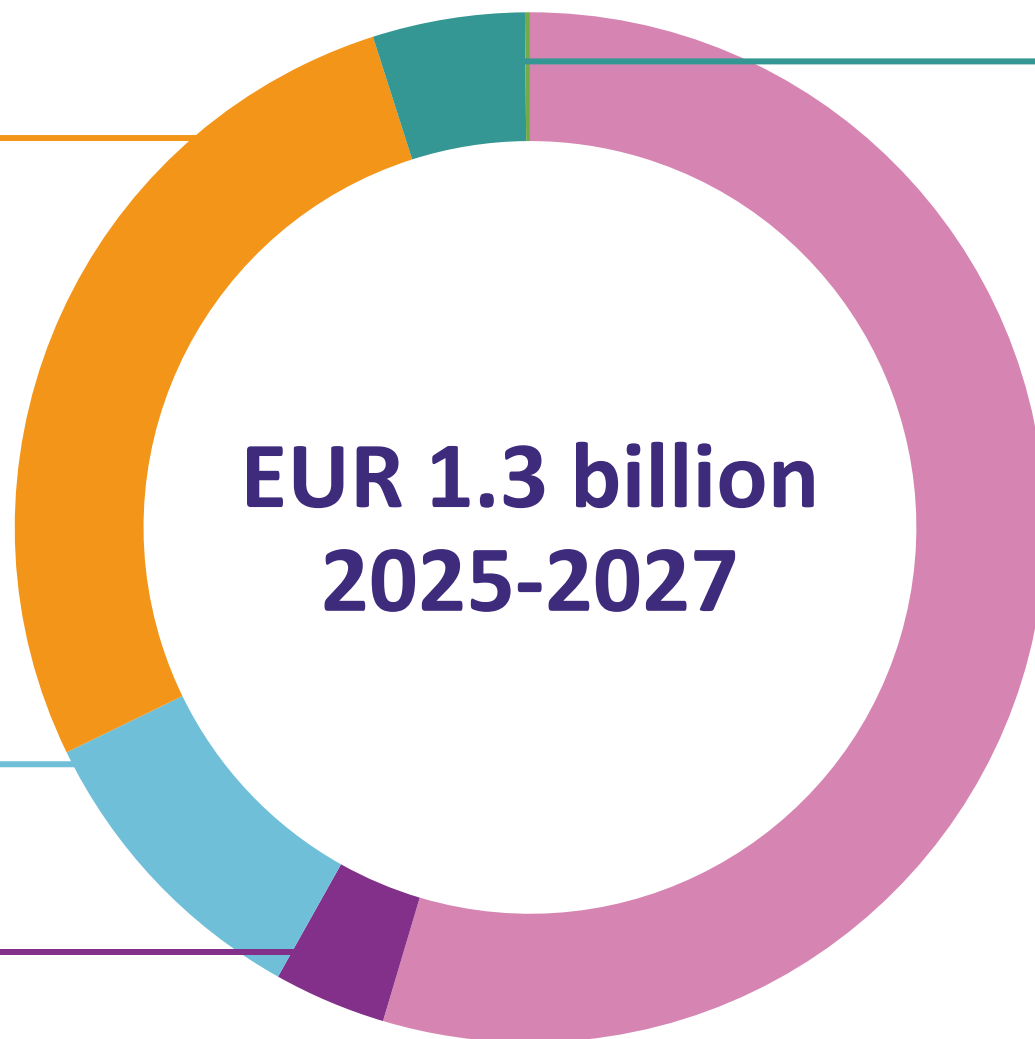
Deployment and Best Use
of Digital Capacities and
Interoperability

EUR 125 million

Advanced Digital
Skills

EUR 45.6 million

Cybersecurity



EUR 61.7 million

Semiconductors

EUR 705.6 million

AI Continent

EDIHs

Destination Earth



Work Programme 2025-2027



Adopted and published on 28 March 2025



First set of calls published on 1 April on the Funding & Tenders portal



First set of calls opened on 15 April and close on 2 September (except EDIH call)



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WP 25-27 specific features

- **Maximum public funding rate** for all topics and Appendix 6 on State aid
- Appendix 4: Restrictions for the protection of European digital infrastructures, communication and information systems, and related supply chains that exclude entities that are assessed as “**high-risk suppliers**”
- Multiple actions fall under the scope of the **STEP seal**



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Key considerations for the future



1

HIGH-PERFORMANCE COMPUTING

Key achievements

- Three EuroHPC pre-exascale supercomputers
- Two supercomputers are in the top 10 fastest in the world
- JUPITER, **Europe's first exascale supercomputer**, operational end of 2024 and greenest HPC system in the world (JEDI)
- **13 AI Factories** launched until March

WP 2025 -2027

- Establishment of AI Factories
- Quantum Computing
- National HPC Competence Centres

This action will be managed by the EuroHPC JU.

Information is only preliminary and will be finalised by the EuroHPC Governing Board



2

AI, DATA & CLOUD

Key achievements

- Four **AI Testing and Experimentation Facilities (TEFs)** offering testing and validation services to AI innovators
- **Common European Data Spaces** in seven sectors, enhancing data availability for businesses and researchers across the EU, supporting the development of AI and boosting innovation

WP 2025 -2027

- Data spaces (cultural heritage, tourism, skills, manufacturing, public procurement, health, agri-food MCP)
- Support for data
- Cloud-to-edge (e.g., Simpl)
- Apply AI (GenAI TEFs, GenAI for public administrations, Virtual Worlds test beds)
- Apply AI in health (AI-based medical imaging and image screening, virtual human twins)



3

CYBERSECURITY & TRUST

Key achievements

- **27 national Cybersecurity Coordination Centres** and **26 national and cross-border Security Operations Centres**
 - Providing access to technological expertise
 - Ensuring cross-border cooperation
 - Strengthening coordinated Union detection capacities and common situational awareness of cyber threats and incidents

WP 2025 -2027

- EU Cybersecurity reserve
- Cyber Resilience Act reporting platform
- Cyber Situation and Analysis Centre

Most actions for cybersecurity are managed by the ECCC and are covered by a separate WP (published on 28 March).

This WP only covers actions which are implemented by ENISA



4

ADVANCED DIGITAL SKILLS

Key achievements

- **Over 20,000 participants in educational and training programmes** in highly specialized fields, like AI, robotics, cybersecurity, or quantum
- **Initiatives for key sectors and specific target groups**
 - Skills for cybersecurity, semiconductors and HPC
 - Supporting girls and women in digital

WP 2025 -2027

- Sectoral digital skills academies
- Excellence in higher education and training programmes in key digital areas and applied technologies
- European League of Advanced Digital Skills Academies
- Digital Skills and Jobs Platform
- Other: EU Code Week, Girls and Women in Digital and EdTech Accelerator



5

ACCELERATING THE BEST USE OF DIGITAL TECHNOLOGIES

Key achievements

- **European Digital Identity Wallet:** Four large-scale pilot projects involving over 360 organisations across 11 key use-cases
- Network of **Safer Internet Centres** established
- Over 2,900 reusable interoperability solutions provided on the **Interoperable Europe Portal** and courses for civil servants available on the Interoperable Europe Academy

WP 2025 -2027

- **Deployment of public services**
 - European Digital Government Ecosystem: eID, OOTS, eProcurement and eInvoicing
 - Interoperable Europe
 - Justice and Consumers
 - Building capacity to deploy the EEHRxF and digital health services
 - European Cybersecurity Support Centre for hospitals and healthcare providers
- **Confidence in the digital transformation**
 - Safer Internet
 - European Digital Media Observatory and European network of fact-checkers
 - European Democracy Shield
- **Support to the implementation of Multi-Country Projects**
- **Programme Support Actions**



6

SEMICONDUCTORS

Key achievements

- **5 Pilot Lines for Chips:** state-of-the-art facilities to test, experiment, and validate chips technologies and designs to form the basis for Europe's next generation of semiconductor production

WP 2025 -2027

- Financial instrument for the support of:
 - Semiconductor technologies and solutions for development and production of microelectronics and photonics components and systems
 - Development, production and commercialization of new semiconductor chips for digital applications



DESTINATION EARTH

Key achievements

- A **highly accurate twin of the Earth** to anticipate environmental disasters, adapt to climate change, improve our urban development, etc.
- Two Digital Twins launched in June 2024:
 - **Climate Change Adaptation** (multidecadal simulations)
 - **Weather-induced Extremes** (high-resolution forecasts and on-demand simulations)

WP 2025 -2027

- DestinE initiative will continue being implemented through the contribution agreements with the three implementing entities (ESA, ECMWF, EUMETSAT) and the activities funded are going to cover the **implementation of Phase 3**



EUROPEAN DIGITAL INNOVATION HUBS

Key achievements

- **169 European Digital Innovation Hubs**, available in 90% of the European regions and seven associated countries, serving public and private organisations, in particular SMEs
- **Services:**
 - Test before invest
 - Innovation ecosystem
 - Digital skills
 - Access to finance services

WP 2025 -2027

- Completion and consolidation of the network of European Digital Innovation Hubs (EDIHs) and focusing its activities on **supporting AI technologies and AI ecosystem** in Europe



First set of calls

Area	Topics in the Work Programme	Indicative budget (EUR mil)
AI/Cloud-to-edge	Support to the secretariat for the Alliance on Processors and Semiconductor Technologies	1
Data for AI Factories	Data Spaces Support Centre	10
	Digital solutions for regulatory compliance through data	8
	Multi-Country project in Agri-Food	15
Apply AI Strategy implementation	Apply AI: GenAI for public administration – grants for procurement	21
AI/European Digital Innovation Hubs	Consolidation of the Network of European Digital Innovation Hubs (EDIHs with reinforced AI focus)	170
	Consolidation of the Network of European Digital Innovation Hubs (EDIHs with reinforced AI focus) – recently associated countries	9
	Completion of the Initial Network of European Digital Innovation Hubs (EDIHs)	2
Advanced Digital Skills	Sectoral digital skills academies	27
Safer Internet	Network of Safer Internet Centres (SICs)	42
	European network of fact-checkers	5
TOTAL for the first set of calls		310

Art 12.6

STEP

STEP

STEP

STEP



1

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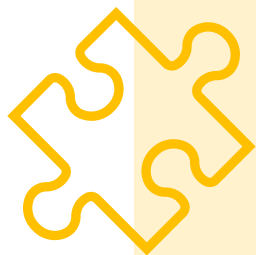
New WP 2025-2027

4

Key considerations for the future



Key considerations for the future



Complex and interrelated issues that threaten the digital transformation:

- Widening competitive and technological lag
- Increasing security challenges
- Uneven connectivity infrastructure deployment, slow uptake of digital infrastructure and services, and digital skills deficit
- Untapped potential of the green digital twin transition
- Sub-optimal EU funding setup to address challenges in the digital age

The overarching policy objectives of **competitiveness, security, democracy, and the twin transition** require a more coherent, coordinated, and agile strategy:

- Involving all levels of governance (EU, national, regional)
- Combining public and private investments
- Clear priorities set at the EU level



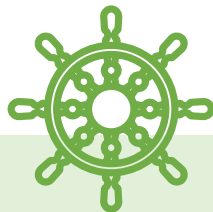


Key considerations for the future

The EU should aim at:



Reduced complexity and fragmentation of the EU funding landscape for the digital transformation



More efficient policy steer of EU funds, simplified processes, and a certain level of flexibility in budget allocations → crucial to respond to new opportunities and challenges as they arise



Partnering with like-minded countries based on reciprocity and security will be imperative for Europe to come out stronger as a competitive, self-standing and reliable global digital actor



Study on the EU's critical digital capacities deployment beyond 2027

Purpose

Collecting evidence for future EU investments needs in digital capability deployment in support of the preparation of the next Multiannual Financial Framework (MFF)

Timeline

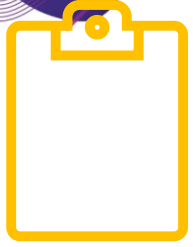
October 2024 – October 2025

Alignment with other studies

Study on the 'Key considerations for strategic digital technologies under the 10th Framework Programme for R&I (FP10)' (November 2024 – October 2024)



Surveys launched



- Broad **stakeholder survey**
- **Public sector survey** on the uptake of digital technologies
- **Market survey** (R&I study) for the private sector

Deadline extended until **18 July**. Please participate and share!

Link to the news item and surveys [here](#).



Thank you!

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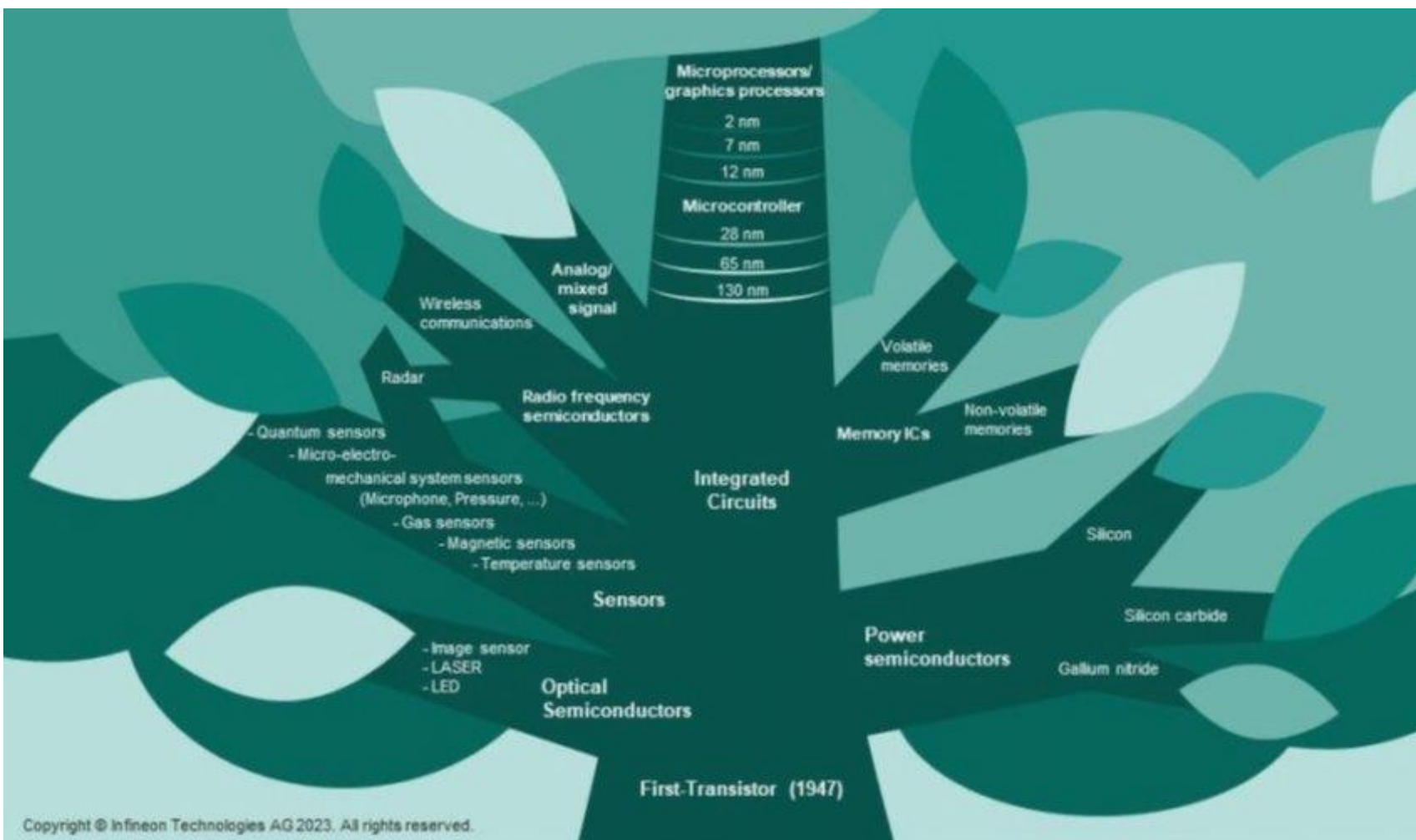
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CNECT-C3

The Semiconductors Tree



1 trillion

chips produced annually

100 billion

transistors in one chip

**State of the art production
today: 3 nm**

**Global market:
2023: US\$ 550 bn
2030: US\$ 1 trillion**

European Chips Act

Entry into force: 21st September 2023

Pillar I

Aim: to bolster large-scale technological capacity building and innovation within the EU's semiconductor ecosystem.

Actions: set up of pilot lines, competence centres, design platform, Chips Fund. 85% of R&D&I funding

Pillar II

Aim: attract investments to increase semiconductor manufacturing capacity, contributing to security of supply.

Actions: EUR 50 billion already invested in manufacturing (7 fabs).

Pillar III

Aim: monitoring the supply chain and coordinate actions with Member States, especially in times of crises.

Actions: monitoring and alerting system, European Semiconductor Board.

Alliance on Processors and Semiconductor Technologies

Objectives

- Strengthen Europe's semiconductor industry through strategic collaboration in key Working Groups (Skills, Supply Chain, PFAS)

Alliance Tasks

- A. Planning and Analysis**
 - ✓ Identify gaps, bottlenecks, dependencies
 - ✓ Develop strategic roadmaps
- B. Increase design capacity and manufacturing production in EU**
 - ✓ Define a roadmap to reach advanced nodesTwo parallel targets: 16-10nm and 5nm to 2nm
- C. Foster investment and synergies across private/public initiatives**



Support to the secretariat for the Alliance on Processors and Semiconductor Technologies

Important dates and eligibility criteria

- **Launched** 15th April 2025
- **Deadline:** 2nd September 2025, 17:00 Brussels tim
- Applicants: legal entities; established in the EU, listed EEA countries or countries affiliated with DEP
- Beneficiaries and affiliated entities must register in the Participant Register

Budget and project duration

- **Budget:** EUR 1 000 000
- **Project duration:** 36 months
- Proposals for CSA are limited to **50 pages** (Part B)

Award criteria

1. Relevance

- Alignment with the objectives and activities described

2. Implementation

- Soundness of the implementation plan and efficient use of resources; capacity of the applicants

3. Impact

- Extent to which the project will achieve the expected outcomes and deliverables



Graphic: Planning 2025 DEP Calls

DEP calls 08 - opening Q2 2025	2024			2025												2026		
	<<	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
DIGITAL-2025-EDIH-EU-EEA-08							3/4 - 14/5	eval+ethics			Sec Scr				grant signature			
DIGITAL-2025-EDIH-AC-08 (2)							publ F&T											
DIGITAL-2025-AI-08 (5)								call open										
DIGITAL-2025-SKILLS-08 (3)								15/04 - 02/09										
DIGITAL-2025-BESTUSE-08 (2)																		

DIGITAL-2025-AI-08-PROCESSOR

Secretariat for the alliance on processors and semiconductor technologies

Practical
support for day-
to-day work

Organisation of
flagship events

External &
internal
communication

Editorial and
strategic
support

Status of the Alliance

- 3 Working Groups (WGs):
 - Supply chains
 - Skills
 - PFAS
- The 4th WG on Automotive is being set-up
- Any organisation with relevant existing or planned activities in the area of processor and semiconductor technologies, including end-user companies, associations, and research and technology organisations, can join the Alliance.



Allpros



About Marketplace Industrial Alliance



Industrial Alliance
for Processors and
Semiconductor Technologies

Enhancing Europe's digital and industrial sovereignty

The Secretariat of the Industrial Alliance on Processors and Semiconductor
Technologies

Interactive session

Request to speak by using the chatroom 