



Chips Joint Undertaking

Working together to strengthen European industries

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EUROPEAN
PARTNERSHIP



About Chips JU

- The Chips JU is a tri-partite public-private partnership, established in 2023, as a successor to Key Digital Technologies JU (KDT JU) to advance nano-electronic chip technologies in Europe.
- Funded by the European Union, Participating States, and Private Members (AENEAS, EPoSS, and INSIDE Industry Associations)



Private Members
Industry Associations



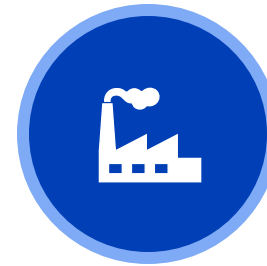
European Union
European Commission



Public Authorities
Participating States

Mission

- Our mission is to bridge research, industry, and policymakers, driving innovation along the entire value chain, from chip design to cutting-edge applications in mobility, energy, health and more.
- Chips JU is dedicated to advancing nano-electronic chip technologies in Europe, promoting digital sovereignty, digital transformation, and environmental responsibility, in line with European values.



EU and national synergies

The Chips JU work programme addresses the Chips for Europe Initiative, and the Electronic Components and Systems (ECS) R&I activities.

The stakeholders work together to ensure that the programme addresses the most critical challenges in the semiconductor sector.

Governing Board

Overall strategic direction of the JU, oversees operations and implementation of the activities.

Private Members Board

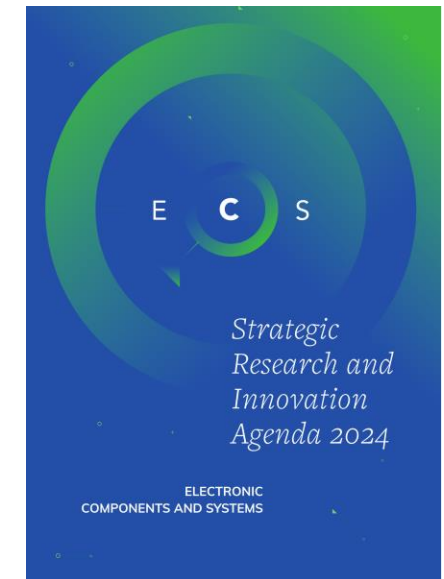
Draft the Strategic Research and Innovation Agenda, which identifies the needs of the industry and compiles research topics covering the whole ECS value chain.

Public Authorities Board

Approval of the launch of calls, selection of the proposals that will receive funding

ECS Community

Submission of proposals to the various calls.



Activities

Chips for Europe Initiative

Pilot Lines
Competence Centres
Design Platform
Quantum chip technology

€ 2.875bn

Horizon Europe
Digital Europe Programme

ECS R&I Calls

Global Research and Innovation
Actions
Focus Topics
Global Innovation Actions
International collaborations

€ 1.3bn

Horizon Europe

Key Application Areas

- The Chips JU focuses not only on semiconductor technology but on the industries that use semiconductors to power their innovations.
- The JU beneficiaries operate in fields that leverage semiconductors to drive applications in areas such as mobility, energy, digital industry, health & wellbeing, digital society and agrifood and natural resources. These sectors rely on advanced chips to enhance efficiency, connectivity, and sustainability.



Digital Industry



Digital Society



Mobility



Health &
Wellbeing



Energy



Agrifood and
Natural Resources

Real-World Impacts of Semiconductor-Driven Applications

Programme performance KPIs	Operational Performance KPIs
Measure effectiveness of the projects in terms of: • funding distribution, • SME participation, • publications	Track: • efficiency of the JU office, • time taken to grant, • process payments, • monitor projects

741 beneficiaries
in 2023

31% of participants
were SMEs

23% of EU
funding
allocated to
SMEs

41% of the
participants were
newcomers

On average 40
patents and 120
new innovations
brought to market
annually

The Future of Semiconductor Applications

Leading the global tech landscape

By fostering R&D and facilitating access to advanced manufacturing, Chips JU empowers European companies to lead in the global tech landscape.

Europe at the forefront of innovation

Chips JU supports the next generation of digital technologies, ensuring that Europe remains at the forefront of innovation.

New technologies

Emerging technologies such as quantum technologies, AI-driven innovations and 6G networks.

Meeting Europe's goals

The JU aligns with Europe's target to reduce energy consumption by 32.5% by 2030.



Chips JU website: www.chips-ju.europa.eu/

Questions about the calls: calls@chips-ju.europa.eu

Chips JU social media:



X: @Chips_JU



LinkedIn: Chips_JU