



**WEECS 2024**  
**GHENT** BELGIUM  
5-6 December

**Strengthening EU competitiveness**

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# Current landscape

“The EU should strengthen the innovation capacity of its semiconductor ecosystem, reducing dependence on third-country companies and geographies, and strengthening its capacity to design and produce, package, reuse and recycle advanced semiconductors.” – Chips Act 2023

“Europe must develop a comprehensive industrial strategy to regain technological sovereignty in strategic sectors.” – Draghi Report 2024

# Chips Joint Undertaking

Chips JU acts as a facilitator for public-private partnerships, ensuring that the necessary funding is directed toward strategic projects.



**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.

## Collaboration

- **Strategic autonomy** in technology.
- **Global competitiveness** in semiconductors.
- **Resilience** against supply chain disruptions.

# 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  
Global Innovation Actions  
Focus Topics  
International collaborations

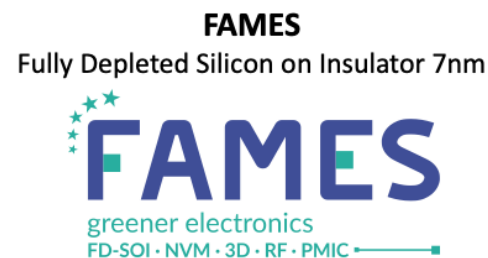
€ 1.3bn

Horizon Europe

# Pilot Lines - Cutting-edge facilities

Accelerating industrial uptake of new technologies

Chips JU currently supports four pilot lines, accelerating development, testing, and scaling of semiconductor innovations (fifth one currently under preparation). These facilities help bridge the gap between research and mass production.



# Impact – ECS Calls

Since 2021, the Chips JU has collaborated with over **1181** beneficiaries across +50 R&I projects, with **33% SMEs** involved. These efforts are expected to have a similar global impact as ECSEL JU, with high patent output (442 patents in total as of 2023) and technological innovation across industries.

As a key partner, Chips JU drives cross-sector synergies – it is the **most selected partner** for collaboration among all European partnerships (**12 synergies**).

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

# Overview of the 2024 Calls

## Electronic Components and Systems R&I (Low TRL)

| Call                                                                                       | Received proposals | Selected proposals | EU Funding (M€) | Total cost |
|--------------------------------------------------------------------------------------------|--------------------|--------------------|-----------------|------------|
| Global RIA call according to SRIA 2024                                                     | 26                 | 3                  | 52              | 145        |
| Sustainable and greener manufacturing                                                      | 1                  | 1                  | 15              | 48         |
| Joint call with Korea on Heterogeneous integration and neuromorphic computing technologies | 15                 | 4                  | 6               | 12         |

\*Figures are provisional, pending final funding availability from participating states



# Overview of the 2024 Calls

## Electronic Components and Systems R&I (High TRL)

| Call                                                                      | Received proposals | Selected proposals | EU Funding (M€) | Total cost |
|---------------------------------------------------------------------------|--------------------|--------------------|-----------------|------------|
| Global IA call according to SRIA 2024                                     | 15                 | 4                  | 103             | 349        |
| High Performance RISC-V Automotive Processors supporting SDV              | 1                  | 1                  | 20              | 72         |
| Service Oriented Framework for the Software Defined Vehicle of the future | 1                  | 1                  | 20              | 67         |

\*Figures are provisional, pending final funding availability from participating states

# Overview of the 2024 Calls

## Chips for Europe Initiative

| Call                                                        | Received proposals | Selected proposals | EU Funding (M€) |
|-------------------------------------------------------------|--------------------|--------------------|-----------------|
| Competence Centres                                          | 29                 | 27                 | 116             |
| Support to the European Network of Chips Competence Centres | 2                  | 1                  | 4               |
| Design Platform                                             | 1                  | 1                  | 25              |
| Photonic Integrated Circuits Pilot Line                     | 1                  | 1                  | 190             |

\*Figures are provisional, pending final funding availability from participating states

# Technological Sovereignty

Sovereignty isn't independence

Europe will still rely on the global semiconductor ecosystem, but we must build strengths, so others rely on us too.



Thank You



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Executive Director

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