

EU Chips Act State of Play

EU – India R&D Workshop

European Commission – Pierre Chastanet Head of Unit – Microelectronics and Photonics 9 October 2024

Three pillars of the EU Chips Act

European Semiconductor Board (Governance)

Pillar 1

Chips for Europe Initiative

- Initiative on infrastructure building in synergy with the EU's research programmes
- Support to start-ups and SMEs

Pillar 2

Security of Supply

 First-of-a-kind semiconductor production facilities

Pillar 3

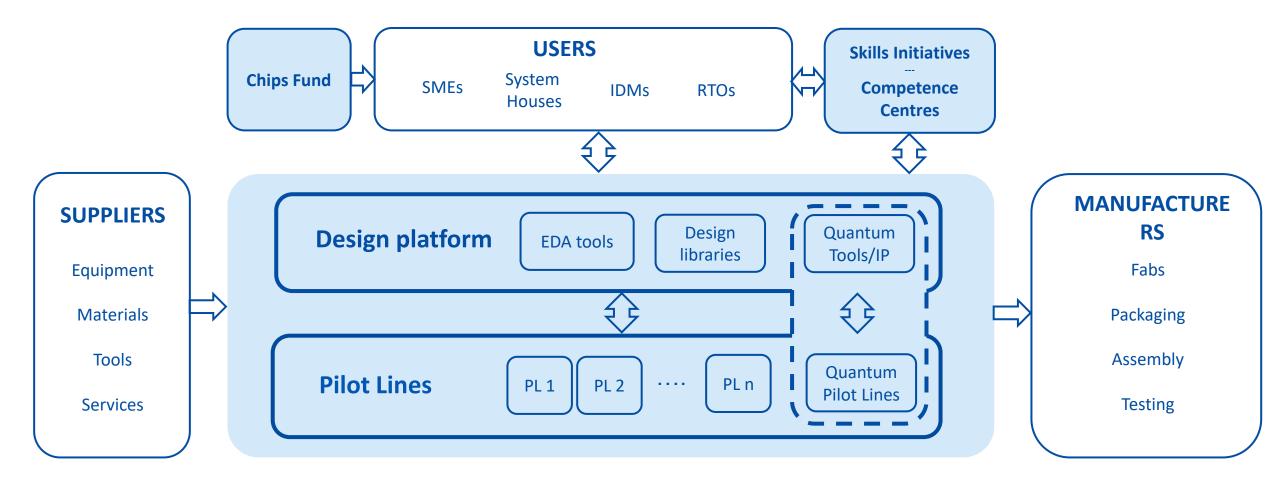
Monitoring and Crisis Response

- Monitoring and alerting
- Crisis coordination
 mechanism with MS
- Strong Commission powers in times of crisis



Signed by the European Parliament and the Council September 2023

Chips for Europe Initiative Bridging the gap from lab to fab





State of Play

Chips JU

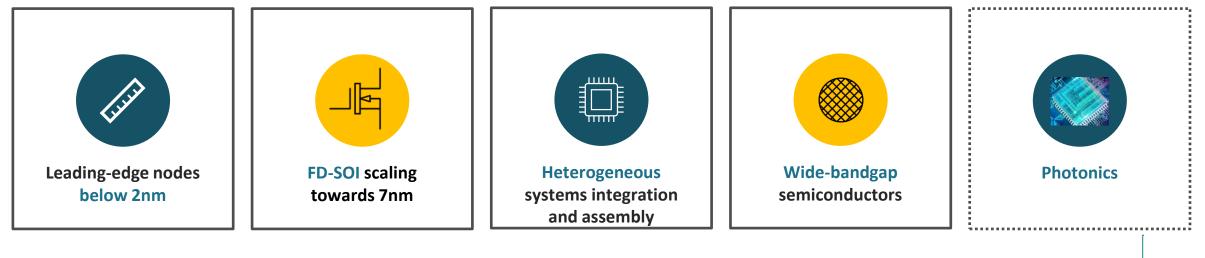
Implementing vehicle of the Chips for Europe Initiative

First calls on **pilot lines** launched on 1 Dec 2023 for ~ EUR 3.3 billion

EUR 5.75 billion [EU + MSs] investment in infrastructures expected by 2027



Chips for Europe Initiative – current status (I) Pilot lines



Call opened in July 2024-



Chips for Europe Initiative – current status (II Design platform



Main

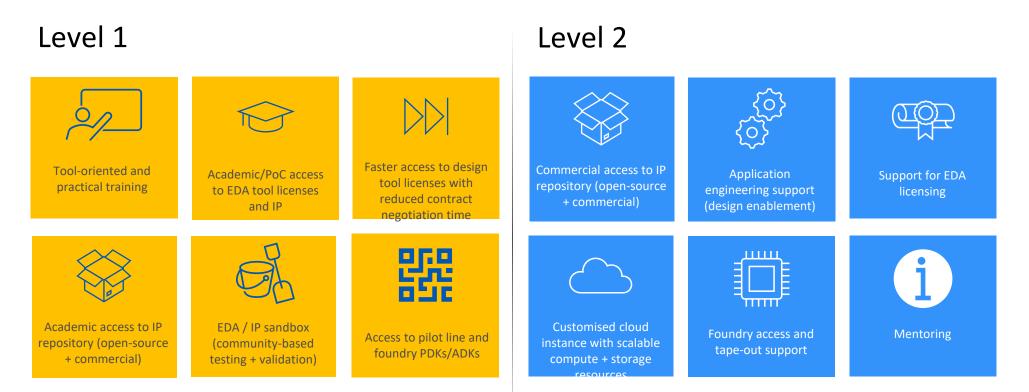
- Reduce entry barriers and admin burden for EU companies in design
- Facilitate access to pilot lines and foundries
- Foster collaboration among EU stakeholders on new developments

Instrument

ning and support to boost design skills Develop a virtual design platform, offering cloud-based access to tools, libraries and support services to accelerate development and reduce time-to-market



Chips for Europe Initiative Design Platform Services



Access open to qualified designers from entities (commercial and non-) based in EU or 'Chips JU' PS Market rates or access to selected entities with support granted by EU + PS of 'Chips JU'



Chips for Europe Initiative – current status (III) Competence centres





Chips Act – Pillar II Facilitate investments in manufacturing facilities

State aid distorts competition and is prohibited in the Union (*TFEU*) *- unless justified by economic development needs*



First-of-a-kind (FOAK) facility: to qualify, facility needs to offer innovation in terms of products or process that is not yet present in the Union (not to distort competition)



Conditions: positive impact, security of supply and commitment to next generation

Integrated Production Facility (IPF)

First-of-a-kind facility which produces the chips (mostly) for the same undertaking

Open EU Foundry (OEF)

First-of-a-kind facility that produces chips (mostly) for unrelated undertakings



Update on Applications for State aid

- ✓ The Commission already approved State aid for the following four projects.
- On 5 October 2022, the Commission approved EUR 293 million of State aid under the NextGenEU Recovery and Resilience Facility (RRF) to STMicroelectronics for the construction and operation of a Silicon Carbide wafer plant in Catania using 150mm technology.
- On 27 April 2023, the Commission approved a €2.9 billion French aid measure to support ST and GlobalFoundries in the construction and operation of a new microchips manufacturing facility in Crolles, France.
- On 31 May 2024, the Commission approved EUR 2 billion of aid for an additional project for STMicroelectronics in Catania, Italy for a fully integrated production facility based on 300mm Silicon Carbide wafer technology.
- On 20 August 2024, the Commission approved EUR 5 billion German aid measure to support European Semiconductor Manufacturing Company ('ESMC') in the construction and operation of a microchip manufacturing plant in Dresden.



Chips Act Pillar III

Update on general activities of the European Semiconductors Board

- Monitoring supply chain vulnerabilities: the objective is to create a mechanism to monitor the semiconductor value chain and to spot semiconductor crises (in coordination with the JRC).
- **Monitoring mature-node chips investments in third countries:** Launch a questionnaire for users of chips and for suppliers of chips.
- Multilateral engagement: G7, OECD, GAMS.
- International cooperation : TTC with US & India and Digital Partnerships with Japan, Korea, Singapore, and Canada.
- Skills for Chips Initiative: Launch of the Thematic Working Group on Skills managed by ALLPROS.eu.



International partnerships and frameworks

- Semiconductor value chain is global and spread over different world regions
- We need to cooperate, proactively managing interdependencies to ensure a reliable global marketplace for EU products and security of supply including in crisis situations

Bilateral

Digital Partnerships:

- Japan
- South Korea
- Singapore
- Canada

Trade and Technology Council

- (TTC):
- US
- India

Multilateral

OECD Informal network on semiconductors:

Coordinated approach to gain a better understanding of global semiconductor ecosystems through information sharing on identified parts of the value chains and policy efforts across countries 38 OECD members + accession candidates



Thank you



https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/european-chips-act_en



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