

International Cooperation On Semiconductors

● What is ICOS?

ICOS is a three-year **Coordination and Support Action (CSA)** from the **European Commission**, part of **Horizon Europe**. It is an ambitious project in the framework of the **European strategy of semiconductors**

The Strategic importance of Semiconductors

The strategic importance of semiconductors and the dependence of Europe from other regions of the world were evidenced by the recent international crises.

Semiconductors & Semiconductor-based photonics are **pivotal technologies** for almost all existing industrial sectors, as demonstrated by the recent chips shortage. In particular, semiconductors are essential enablers for digital and green transitions and for Sustainable Development Goals.

Our project aims to **support the growth of the European Semiconductor and Semiconductor-based photonics industry**, through focused international research cooperation.

ICOS will build **balanced semiconductor partnerships** with like-minded countries on topics of mutual interest, in line with the objectives set out by the **EU Chips Act**.

● ICOS OBJECTIVES

Identify and support the establishment of the most promising scientific international collaborations through an in-depth analysis

Support the Commission in its effort to re-establish the global position of Europe in the semiconductor value chain

Support the growth of the European Semiconductor industry

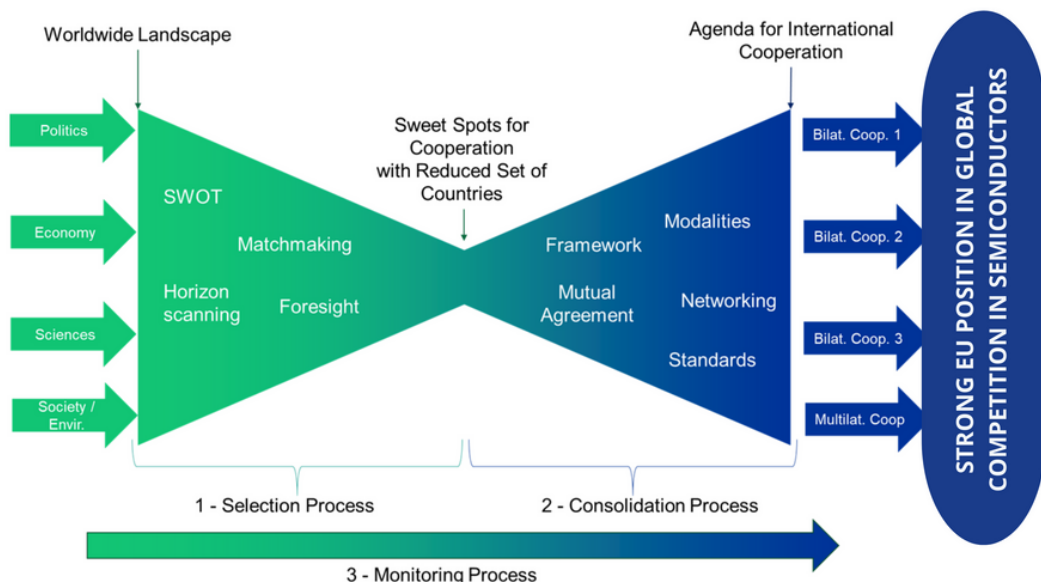
Strengthen Europe's position in global value chains in this area

By the end of 2025 and based on the ICOS results, we will advise the European Commission on collaborative actions to be implemented with leading semiconductor countries, supported by an in-depth risk-benefit assessment.

How?

The project will start with an exhaustive analysis of the value chains of semiconductors for electronics and photonics, the strengths and gaps of European and international industries and research communities in this area.

Based on the obtained results and the most promising technologies highlighted in International Roadmaps, ICOS will then determine the research subjects likely to benefit the most to the European strategic goals, and translate them into proposals for future bilateral or multilateral research initiatives, as well as practical cooperation modalities.



Partners

Academics



RTOs



Industrials



Associations & Consulting companies



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