

Sustainable Electronics & International Cooperation On Semiconductors

About the Workshop

The very first **ICOS Workshop** will be held on April 26th to 28th in Grenoble (France) to gather an overview of the strategies of different leading countries in the field of semiconductors, of European and International roadmaps, and conduct an initial analysis of the gaps between EU activities and the most promising technologies highlighted in Roadmaps for possible future international collaborations – collaborations to be strengthened or to be proposed on topics of mutual interests.

Join us!

Through this workshop, we will:

- Present the EU activities,
- Cover the international IRDS vision of future important technologies, find the possible gaps for developing international cooperation,
- Present the main challenges of sustainable electronics,
- Provide contributions to the EC/EIC for future important topics for possible (joint) calls.

Programme overview

Day 1

SESSION 1 – European Innovation Council

SESSION 2 – Chips Acts

SESSION 3 – Sustainable Electronics

PANEL SESSION 1: Challenges and Solutions for Sustainable Electronics

Day 2

SESSION 4 – Advanced functionalities

SESSION 5 – Beyond CMOS

SESSION 6 – Quantum Information

Processing

PANEL SESSION 2: Strategy for International Cooperation - Chips Act

Day 3

SESSION 7 – Japanese session

SESSION 8 – Advanced Computing

SESSION 9 – Semiconductors-based

Photonics

The workshop is free,
but registration is
mandatory by April 20



■ 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

EU Chips Act and recent events

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

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

ICOS will play a significant role in helping our continent regain sovereignty and leadership in that domain, in line with the objectives set out by the EU Chips Act.

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 in this area.

The next generation and emerging technologies, especially in advanced computation and functionalities will be identified, and the most interesting countries for International Cooperation will be determined.

Based on the obtained results, ICOS will then highlight 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.

Coordinated by Francis Balestra – GINP/CNRS, Director of the SiNANO Institute, ICOS was officially launched on 19 January 2023 with its kick-off meeting held in Brussels.



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icos-semiconductors.eu