ECS 2024 GHENT BELGIUM 5-6 December

Systems Design and Integration

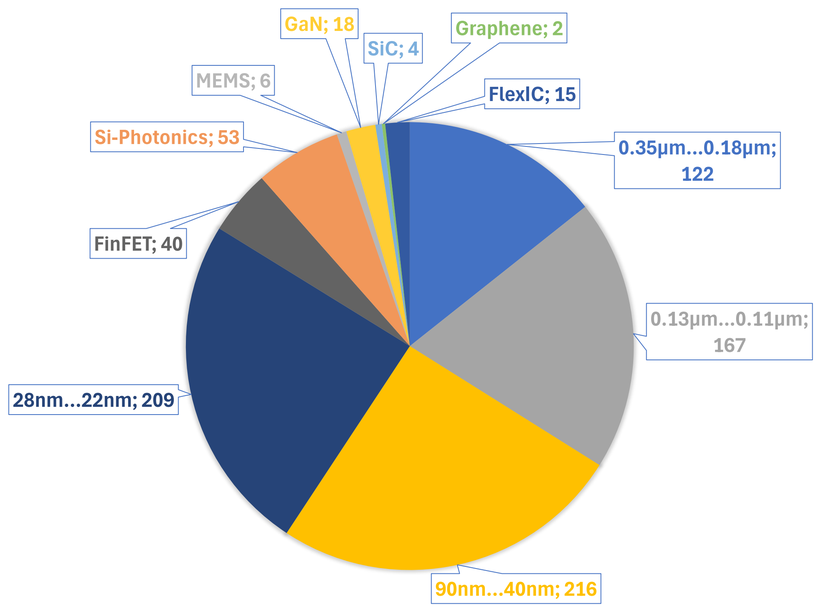
RETICLES

Extending Europractice Services

Challenges and objectives

RETICLES stands for Research, Entrepreneurship, Training, IP-exchange & Chip pLatform of Europractice Services.

RETICLES sustains the Europractice platform and expands it with new services and technologies to provide Europe with an open-access platform to design and fabricate electronic components and systems.



852 Designs Prototyped in Year 2

Technical goals

The overarching goal of the RETICLES project is to strengthen Europe's design capacity and further lower the barriers to accessing advanced semiconductor technologies.

- Establish open access services enabling affordable prototyping in advanced nanoelectronic technologies and fully packaged systems supporting the growth of new digital industries.
- Strengthen and boost the European design ecosystem involving both Academia and SMEs.
- Establish advanced training programmes, primarily focusing on electronic components design and system integration technologies, ensuring European industries have access to a skilled workforce.
- Support research and innovation at the European universities and research centres, and stimulate exploitation activities (in particular spin-offs and subsequent commercialisation).
- Incubate emerging (low TRL) semiconductor technologies from leading European research centres and Digital Innovation Initiatives.

imec

Fraunhofer IIS

UKRI Science and Technology Facilities Council

CIME-P

Tyndall National Institute Institiúid Náisiúnta

Expected impact

RETICLES will lower the entry barrier to access design tools, prototyping, and training for more than 600 academic institutions and their spinoffs:

- Deliver over 65,000 concurrent licenses of design tool flows to European universities and research centres.
- Enable fabrication of more than 600 prototype designs for European academic and industrial customers yearly.
- Train more than 1500 highly skilled engineers, strengthening the workforce.

This will lead to new products and new jobs, thereby reinforcing and expanding the European semiconductor ecosystem.

Contact details:

Romano Hoofman
imec
Romano.Hoofman@imec.be
+32 16 28 3865