## A new funding phase for the institute

BY HUGHES METRAS Director of Technological Research Institute IRT Nanoelec

n 2022, Nanoelec celebrated its 10th anniversary. Our 22-partner consortium, made up of trusted, like-minded professionals, is contributing to the competitiveness of the microelectronics industry. The wide-ranging group of complementary players is currently focused on application oriented programs: smart image sensors new generations of microled displays; silicon photonic sensors; trust and digital security for embedded systems. We also carry out programs on educational engineering and technological dissemination.

As part of our institute's evaluation in 2022, the French National Research Agency (ANR) conducted an impact analysis, which revealed business value creation in all our technological programs, through either investments or the launch of new products. The evaluators took note of the strong commitment of all Nanoelec's partners since the institute was created; they confirmed our high level of excellence

This excellence prompted the government to confirm a new funding phase for the institute until 2025. I wish to commend program teams and directors for the quality of their research.

The following report includes many highlights pertaining to scientific production and to our partners' technological results. I will mention a few for the purpose of illustration: Nanoelec's research in postquantum cryptography has gained significant international visibility as the result of our publications in the framework of the NIST (US)

initiatives in the field; actively involved in our Displed program, Aledia is completing its production plant near Grenoble; and, as part of our Photonic Sensors program, startup Scintil Photonics has raised 15 million euros.

For the past 10 years<sup>1</sup>, Nanoelec has conducted research projects with more than 300 partners, and has tackled technological challenges in multilateral collaborations, a distinctive approach compared with more common bilateral agreements between an R&D organization and an industrial entity.

Since 2020, we have strived to apply a sustainable development approach in our activities. Not only do we integrate eco-design and life cycle analyses in R&D phases, we also focus on initiatives that promote gender parity, and ensure the attractiveness of the microelectronics industry. Our 2022 contest, Women in Technological Research, helped to shed light on highly accomplished female scientists, as well as women who contribute to innovation in their daily work through other professions such as management, communication, and project management. Their commitment contributes significantly to employer attractiveness, which is vital to ensure a sustainable microelectronics industry.



Hughes Metras, Director, and Sandrine Maubert, Deputy-Director of the institute, at the 2022 general assembly of Nanoelec

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1. Particularly as a result of Minalogic's active involvement in the Easytech initiative.

