PRESS RELEASE

RESOLVE, a Strategic Initiative Shaping the Future of High-Value-Added Electronic Products in Europe

GRENOBLE, France – May 22, 2026 – **Eighteen research and technology organizations have committed to RESOLVE, a transnational initiative designed to develop the next generations of electronic components and systems and accelerate their industrial adoption across European territory. The initiative is a concrete response to the sovereignty challenges now posed by quantum technologies and semiconductors in global technological competition.**

As major global powers accelerate their investments in disruptive technologies, Europe must transform its assets into industrial and sovereignty levers. RESOLVE addresses this dynamic by proposing an unprecedented framework.

It aims to position Europe as the global leader in future artificial intelligence (AI) solutions, to improve by a factor of 1,000 the energy efficiency of electronic systems by 2032, and to strengthen European semiconductor production capacity, thereby consolidating the continent's technological sovereignty. To achieve this, the project relies on transnational coordination between industry players and 18 research and technology organizations, enabling resource pooling and accelerating the transition from research to market.

Building on the foundations laid by the European Chips Act 1.0 and its pilot lines, this Pan-European initiative reflects the next step Europe now needs: turning strong R&D assets into industrial scale-up, tighter value-chain coordination, and lasting technological sovereignty. RESOLVE embodies a strong vision: making Europe a leader in energy-efficient, secure, and high-performance semiconductor technologies, committed to its industrial competitiveness and strategic independence.

A systemic ambition for Europe at the service of technological mastery and industrial impact

RESOLVE is therefore part of a political ambition for a technological Europe, structured around three priorities:

- **Sovereignty**: developing cutting-edge technologies in key areas, such as advanced memories, power electronics, radio frequencies, photonics, sub-2 nm technologies, and advanced packaging, to reduce dependence on non-European players;
- **Competitiveness**: positioning Europe as a leader in manufacturing semiconductors and high-value-added electronic systems in strategic markets (automotive, aerospace, defense, industry, data centers, etc.); and
- **Sustainability**: making energy efficiency a growth driver in support of Europe's climate ambitions to ensure the large-scale deployment of digital infrastructures.

Designed to strengthen European value chains

RESOLVE is structured around two inseparable pillars:

- "R&D and technology maturation": 15 key technology areas identified across the semiconductor and electronic systems value chain to demonstrate feasibility and foster industrial adoption.
- "From laboratory to industry / From industry to market": to ensure a rapid and effective transfer to European industry, including early involvement of industrial partners, alignment with product roadmaps, and co-development of prototypes.

The expected outcomes, both technical and economic, will primarily benefit companies in the strategic sectors of the European economy — data centers and AI infrastructure, automotive, defense, space, security and Industry 4.0 — by creating the conditions for new European champions to emerge.

Strengthening Europe's semiconductor industry to sustain its technological leadership

RESOLVE represents a complementary way of building and deploying critical technological capabilities and sovereign industrial foundations in Europe. By bringing together world-unique technological infrastructures into a critical mass, accessible to any European player, RESOLVE weaves a continuum from research to product commercialization, while generating concrete impact on employment, training, and the resilience of value chains, from materials to final systems.

The initiative is thus meant to consolidate and demonstrate Europe's ability to innovate at scale, combining scientific excellence, industrial coordination, and political will. Its ambition is to further strengthen Europe's semiconductor strategy building on proven assets in the areas of energy-efficient, secure, and high-performance semiconductor technologies to guarantee lasting technological leadership and sovereignty.

###

Press contacts

- **CEA-Leti:** Sarah-Lyle Dampoux | sldampoux@mahoneylyle.com |+33 6 74 93 23 47
- **FMD:** Romy Zschiedrich | romy.zschiedrich@mikroelektronik.fraunhofer.de |+49 173 5434 126
- **imec press**: Linda Wetzel | linda.wetzel@imec.be

About RESOLVE

RESOLVE (Reinforcing European SOvereignty and Leadership in Value added Electronics products) is an initiative led by Europe's leading research and technology organizations and supported by the continent's major industrial players. Its ambition: to make Europe a major player in the semiconductors of the future, combining innovation, energy efficiency, and strategic autonomy. The project is jointly proposed and led by the three leading European research and technology organizations (RTOs) in the semiconductor field: CEA-Leti, Fraunhofer/FMD and imec (coordinators of the FAMES, APECS and NanoIC pilot lines, respectively), along with 15 other European RTOs that have joined this initiative: CNR (coordinator of the WBG pilot line in Italy), ICFO (coordinator of the PIXEurope pilot line in Spain), Chips IT in Italy, Tyndall in Ireland, VTT in Finland, Silicon Austria Lab in Austria, TNO in the Netherlands, INL in Portugal, the Cezamat-WUT and Lukasiewicz institutes in Poland, FORTH in Greece, Rise in Sweden, DTU in Denmark, IMT in Romania and HCHIP in Hungary.