PRESS RELEASE

Mottronix and CEA-Leti partner to develop 1-Mbit Mott-RAM technology

Nantes, France, November 25, 2026 – Mottronix and CEA-Leti today announced the launch of a collaboration to bring Mott-RAM technology to pre-industrial maturity on CMOS and to deliver first results at the 1-Mbit scale.

Mottronix, a deeptech company based in Nantes, France, was founded to remove two of the biggest bottlenecks facing AI: the need for on-device AI compute (Edge AI: smartphones, vehicles, robots, etc.), a market expected to exceed $35 billion by 2035, and the need to drastically reduce AI's energy footprint. Building on Mott insulators, an innovative class of quantum materials, Mottronix is developing a new generation of ultra-high-performance memories and components for a brain-inspired computing architecture that departs radically from today's processors. This world-first technology promises up to 10,000 times lower energy consumption than current systems.

CEA-Leti, a global leader in nanofabrication technology R&D. A pioneer in micro- and nanotechnologies, CEA-Leti is a technology research institute based in Grenoble, in the heart of the French Alps, since 1967. It is part of CEA, ranked among the world's Top 100 Global Innovators by Clarivate.

Through its industrial partnership with CEA-Leti, Mottronix gains access to:

- pre-industrial research infrastructure, including more than 700 tools and 14,000 m² of cleanrooms for testing, characterization, prototyping and lot validation on pilot lines;
- multidisciplinary teams of more than 2,000 people combining engineering and research expertise;
- a portfolio of 3,200 patents and a structured approach to protecting and securing innovations, so that industrial partners can turn them into a differentiating advantage;
- a culture of confidentiality and data protection throughout the partnership and beyond;
- recognized technology-transfer expertise and mechanisms, as demonstrated by the creation of more than 80 start-ups;
- a global partner ecosystem spanning the entire value chain, from academic research to start-ups and major industrial players.

The collaboration between Mottronix and CEA aims to demonstrate the performance of Mott-RAM technology for embedded memory and in-memory computing applications. Mott-RAM devices will be co-integrated with transistors in a 200 mm demonstrator manufactured to industry-standard microelectronics processes, at an advanced level of miniaturization relevant to today's applications. The program will demonstrate the manufacturability and robustness of the technology on arrays of up to 1 Mbit — precisely the proof points industry players expect before entering into partnerships with Mottronix.

Laurent CARIO, CEO of Mottronix, said: "We are delighted to launch this collaboration with CEA-Leti. It will raise our technology to TRL 6 and generate 1-Mbit results that will enable us to sign our first collaboration agreements with semiconductor and memory manufacturers."

Sébastien DAUVE, CEO of CEA-Leti, said: "CEA-Leti brings its full expertise in integrating advanced memories into CMOS circuits. We will support Mottronix all the way to the industrialization of these memories and their transfer to high-volume manufacturing."

About Mottronix

Mottronix is a leader in the development of embedded memories and Edge AI memories that will bring ultra-low-power AI systems to smartphones, robots and any remote or edge system. The company's vision is to overcome the limits of the von Neumann architecture by harnessing quantum materials (Mott insulators) to deliver the first memories dedicated to In-Memory Computing, as well as neuromorphic chips that will push the frontiers of Edge AI while consuming up to 10,000 times less energy than conventional architectures. Mottronix builds on 20 years of research conducted at the Jean Rouxel Institute of Materials of Nantes (IMN, a CNRS / Nantes Université laboratory) and on a portfolio of exclusive patents.

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About CEA-Leti

CEA-Leti, located at CEA's Grenoble site, is a technology research institute of CEA, founded in 1967 and a pioneer in micro- and nanotechnologies. It develops innovative, competitive application solutions to address today's global challenges, including clean and safe energy, healthcare, sustainable transportation and the digital transition. Leveraging pre-industrial infrastructure, its multidisciplinary teams provide expertise across a wide range of applications, from sensors to high-performance computing, including data processing and power electronics. CEA-Leti builds long-term relationships with its industrial partners and has spun off more than 80 technology start-ups. It brings together 2,000 people, a portfolio of 3,200 patents and 14,000 m² of cleanrooms, and has offices in San Francisco (USA), Brussels (Belgium), Tokyo (Japan), Seoul (South Korea) and Taipei (Taiwan). It is a member of the Carnot Institutes network and of IRT Nanoelec.
Follow us on www.cea-leti.com and @CEA-Leti.

About CEA

CEA's mission is to inform public decision-making and to provide businesses and local authorities with the scientific and technological means to better manage major societal transformations: the energy and digital transitions, the healthcare of the future, defense and global security. Its 20,000 employees work in 9 centers across France equipped with very large research infrastructures, through academic and industrial partnerships in France, Europe and worldwide.

Learn more: www.cea.fr