



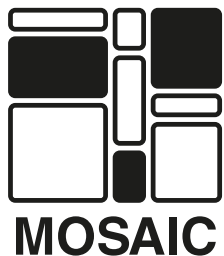
PROJECT NEWSLETTER

JUNE 2026

MOSAIC is strengthening Europe's technological independence & global leadership in automated systems via cutting-edge ECS innovation.



[CHIPS-MOSAIC.EU](https://chips-mosaic.eu)

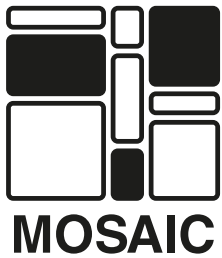


A word from the coordination team



MOSAIC is not only about the technology we are building. From the very start, our priority is to link our work directly to the needs of industry. That is why we used our recent days of the project's kick off meeting in Gdańsk to sit down with the partners and bring those real-world needs straight into the project. And it is why we are thinking about the exploitation of our results now, at this early stage, because if we wait, it becomes too late.

The speed of global competition is everywhere, and Europe needs a clear answer of its own. Over the next three years, MOSAIC will deliver that answer: next-generation, energy-efficient and robust cognitive ECS that combine perception, cognition, AI-enabled decision-making and resilient communications. We first place semiconductors into automated systems, then position those systems intelligently within their environment, across automotive, aerospace, maritime, industrial automation and infrastructure, in direct alignment with the EU Chips Act.



Our pan-European consortium spans the full ECS value chain across 15 countries, and the energy in our first meetings tells me we have the right people around the table. The first results are already taking shape. Stay tuned, because there is a lot still to come.

Vision

MOSAIC's Vision: Europe as a Global Leader in Automation.

- **Pioneering European Automation:** Leading the way in seamlessly integrated automated systems across diverse industries.
- **Strengthening EU Supply Chains:** Building automation on robust, independent European Electronic Components and Systems (ECS) supply.
- **Boosting Competitiveness:** Fostering a highly competitive EU value chain for innovative ECS across all industrial domains.
- **Driving Global Market Penetration:** Intelligent integration of European ECS leading to efficient manufacturing, reduced dependencies, and successful market entry.

OBJECTIVES

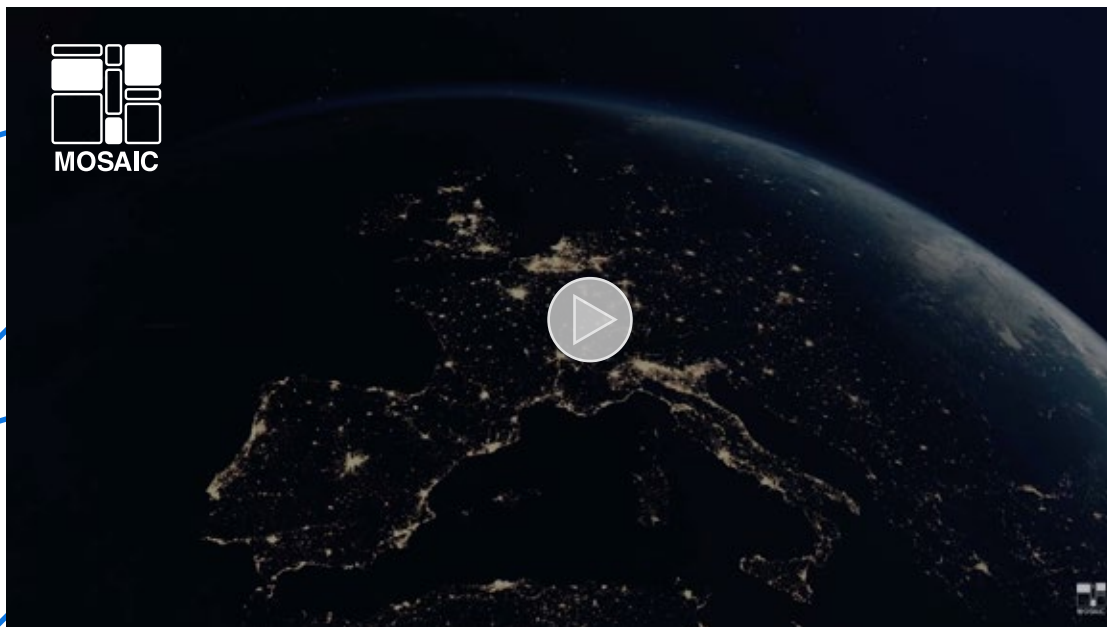
To realise this vision, MOSAIC pursues three core objectives:

- **Enable transition:** move the industry from monolithic systems toward a modular framework, providing defined building blocks and interfaces that reduce costs and eliminate vendor lock-in.
- **Build on lower levels:** leverage existing hardware abstraction layers and collaborate with other initiatives to create a unified framework capable of becoming an industry standard.
- **From research to innovation:** develop core components and validate them through real-world use cases, ensuring the framework is practical and ready for integration into industrial processes.



WATCH: MOSAIC's first project video

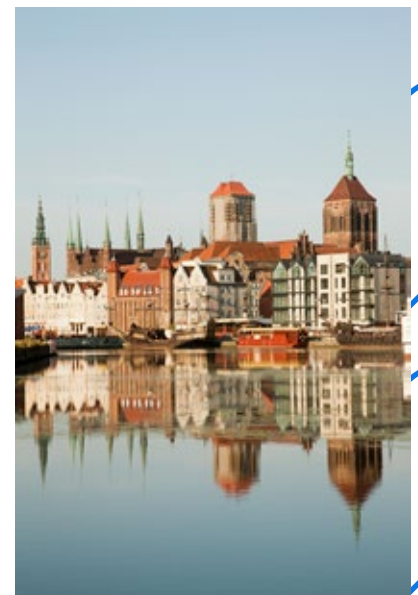
We are delighted to share MOSAIC's first project video, now available on our YouTube channel. In just a few minutes, it introduces the project's vision and main objectives: why technological independence in ECS matters for Europe, how MOSAIC brings together perception, cognition, AI-enabled decision-making and resilient communications, and what the project aims to deliver across its industrial domains by 2028.



MOSAIC kicks off in Gdańsk

The MOSAIC journey has officially begun. On 22–23 September 2025, the consortium gathered in Gdańsk, Poland, for the project's official Kick-Off Meeting, the starting point of an ambitious effort to strengthen Europe's technological independence and global leadership through cutting-edge ECS innovation.

Over two days, partners came together to align on the road ahead, with strategic discussions spanning impact, requirements, AI explainability, perception systems, & resilient communication technologies. Together these sessions laid the foundation for the work to come and set a clear direction for the project's first phase.



PUTTING PEOPLE AT THE CENTRE: the Technology Acceptance Workshop

MOSAIC took part in the 3rd Technology Acceptance Workshop, during ShapeFuture project GA meeting in Modena, which brought researchers and stakeholders together to ask how emerging technologies can better serve society. At its heart was a fishbowl discussion in which participants shared diverse perspectives on the opportunities and concerns surrounding innovations such as autonomous mobility systems. The exchange underscored a theme that runs throughout MOSAIC's own work: that trust, accessibility, inclusiveness, and public engagement are decisive factors in shaping technologies which respond to real societal needs.

The session was facilitated by Konstantina Karathanasopoulou from HUA University, who guided an open, constructive conversation around a simple but important principle, that technological progress should be developed with people, not merely for them. In total, 67 participants joined both in person and online, contributing insights and experiences that help the project better understand societal expectations and the barriers to technology adoption, paving the way for more inclusive, user-centred solutions.



We extend warm thanks to the University of Modena and Reggio Emilia (UNIMORE) for its generous hospitality and support in making the event a success.

BUILDING BRIDGES: liaison across the European ECS ecosystem

Collaboration across European research projects is key to accelerating innovation, and the Modena gathering was, by design, a point of liaison with the wider ECS community. MOSAIC was highlighted

among projects contributing to a set of shared technological pillars spanning AI, software-defined systems, resilient automation, and next-generation mobility, alongside:

- **ShapeFuture:** a Chips JU project (led by Infineon) developing fundamental ECS for robust, fail-operational perception, cognition, AI-enabled decision-making, resilient automation and communications in highly automated vehicles, and host of the General Assembly.
- **Shift2SDV:** a Chips JU project (coordinated by Virtual Vehicle) building a common, language-independent, microservice-oriented middleware framework to enable the stepwise migration to the Software-Defined Vehicle.
- **EcoMobility:** a sister project advancing ECS for sustainable, next-generation electromobility.

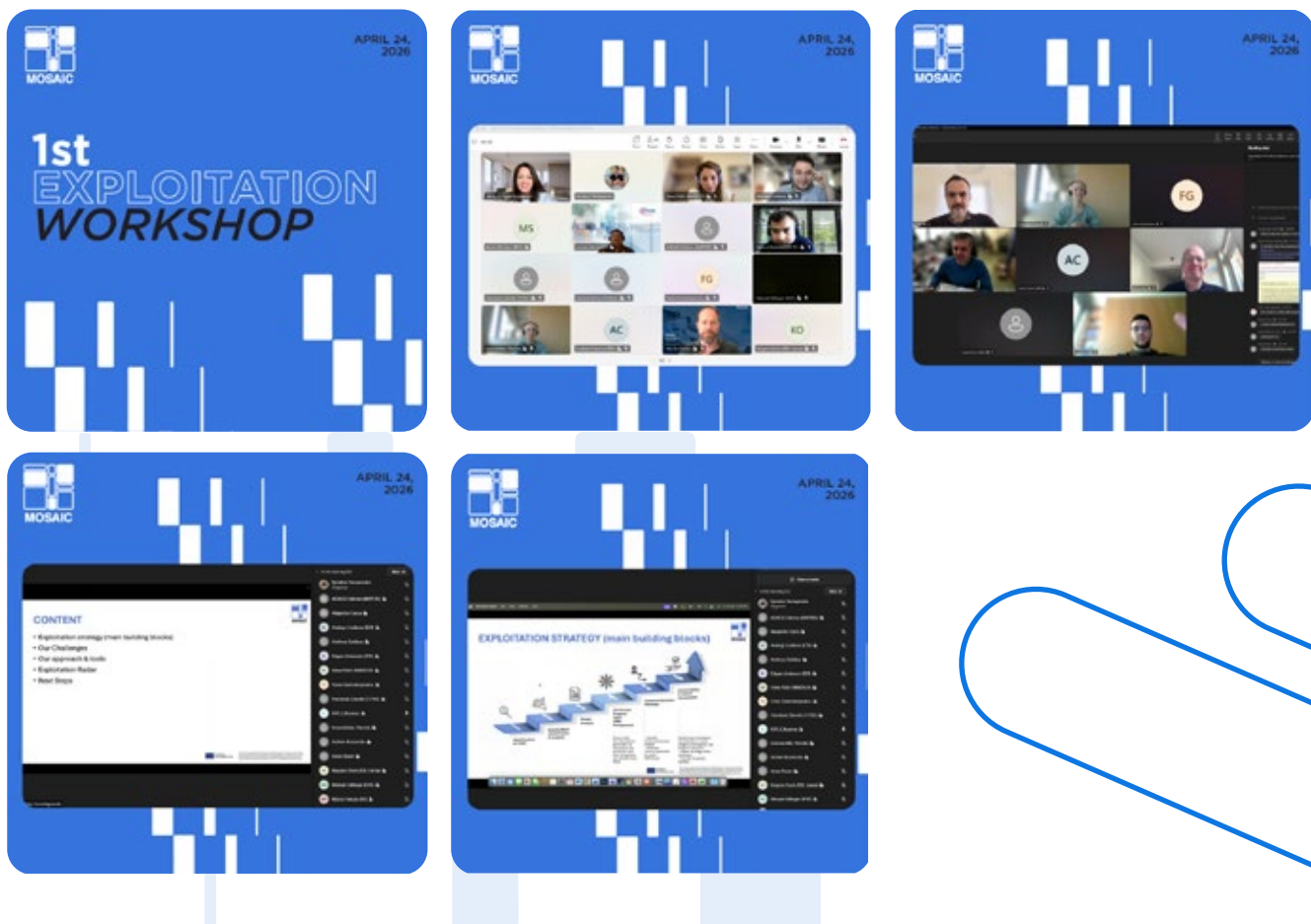
Also represented were AIMS5.0, r3MYDAS, SE4EU, EdgeAI Trust, EECONE, and RIGOLETTO, highlighting the strong collaboration across the European ECS ecosystem.



These exchanges strengthen the links between projects, reduce duplication of effort, and foster knowledge sharing across the European ECS ecosystem, amplifying the collective impact of the Chips JU portfolio and reinforcing Europe's voice in automated systems.

A FIRST EXPLOITATION MILESTONE: the 1st MOSAIC Exploitation Workshop

The period also marked an important internal milestone: MOSAIC's first Exploitation Workshop conducted led by Vicky Chatzidogiannaki (Innovation Dis.Co). With strong engagement from partners who joined, contributed, and leaned into the discussion, the session focused on refining the project's TRL/MRL questionnaires, the backbone of how MOSAIC turns project results into something real, usable, and impactful beyond the project itself.



This is the practical machinery of exploitation: structured instruments that track how each technology matures in both technology-readiness (TRL) and manufacturing-readiness (MRL) terms, and that connect project results to genuine industrial and market uptake. The workshop was a clear step towards greater clarity, alignment, and a stronger exploitation strategy for MOSAIC, and the foundation for the work still to come.

CARRYING THE CONVERSATION FURTHER: MOSAIC in the wider ECS community

MOSAIC and its exploitation approach reached the broader European community at two notable events.

ECS Brokerage Event, Brussels

MOSAIC engaged with the European ECS community on a topic that too often stays in the background but shouldn't: what actually happens with exploitation after the proposal is submitted. On this occasion the Exploitation Radar, a digital exploitation platform, was presented as an answer to exactly that question.



The core message resonated strongly with the room: exploitation should not be a checkbox or an end-of-project exercise, but a living process, measurable, structured, and aligned with real industrial and market uptake.

TechTalk2026

MOSAIC was also present at TechTalk2026, two days of meaningful exchange that closed with a strong sense of shared direction. Discussions around physical AI, security, and trustworthy systems highlighted both the complexity of the road ahead and the value of cross-project dialogue in tackling it. MOSAIC was glad to take part alongside fellow European initiatives including PowerizedD, ShapeFuture, EcoMobility, A-IQ Ready, Archimedes, and Cynergy4MIE, a reminder that the challenges MOSAIC addresses are best met collectively.



LOOKING AHEAD: General Assembly in Istanbul

The consortium is now preparing for its next major milestone: the MOSAIC General Assembly in Istanbul on 8–9 July 2026. Over two days, partners will review technical progress across the work packages, align on next steps, and build on the outcomes of the recent acceptance and exploitation activities. We look forward to reporting on the results in the next issue.





S T A Y C O N N E C T E D



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