

THE MOSAICO CHRONICLES



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Building sustainable AI-agent ecosystems: Why Open Source alone is not enough

Who we are

At the Eclipse Foundation, we provide a mature, scalable, and business-friendly environment for open source software collaboration. With over two decades of experience stewarding some of the world's most widely adopted open source projects, we focus not only on code but on the governance and community structures that ensure long-term sustainability.

Our work sits at the intersection of technology and collaboration: ensuring that innovation does not remain siloed but instead evolves into shared infrastructure that benefits entire industries.

Our role in MOSAICO

Within the MOSAICO project (Management, Orchestration and Supervision of AI-agent Communities for reliable AI in software engineering), we are applying our expertise in open source strategy and governance to help transition **AI-agent communities** from a technical concept into a sustainable European reality.

MOSAICO aims to replace isolated AI models with collaborative systems where specialised agents engage in structured coordination and debate to reduce bias and improve reliability. As the focal point of industrial open source collaboration in Europe, our specific mission is to ensure these innovations do not remain confined to the project lifecycle. **We are building a sustainable, vendor-neutral ecosystem** where these AI-agent frameworks can grow, adapt, and be adopted widely across Europe and beyond.

Community building: Beyond open source

A common misconception is that releasing code as open source is sufficient to ensure adoption. In reality, **open source is a starting point - the backbone - and not an outcome**. For MOSAICO, the challenge is creating a "roundtable" environment where developers, researchers, and companies actively contribute to and extend the framework. To achieve this, we focus on three pillars:

- **Open Governance:** Establishing transparent, meritocratic decision-making processes so every stakeholder has a voice.
- **Clear Contribution Pathways:** Lowering barriers to entry to allow community members to easily share their expertise.
- **Ecosystem Incentives:** Encouraging industry actors to pool resources and invest in shared tools rather than proprietary alternatives.

The value of these systems increases exponentially with participation. For example, a future MOSAICO use case might see specialized agents—focused on security, performance, and compliance—collaborating through structured dialogue to produce more reliable code than any single model could achieve alone.

Vendor-neutrality: A prerequisite for trust

In a strategic field like AI-assisted software engineering, trust is fundamental. By providing a neutral ground where no single company controls the roadmap, Eclipse ensures that MOSAICO outputs can be adopted without lock-in risks, integrated across industries without lock-in risks, and trusted by both public and private stakeholders. This aligns with European priorities for digital sovereignty, ensuring that critical infrastructures like AI-agent orchestration frameworks remain open, auditable, and collectively owned.

Best practices for long-term success

To ensure MOSAICO thrives beyond its initial funding, we implement several core practices from the Eclipse ecosystem:

- **Start governance early:** Defining roles and responsibilities from the beginning ensures continuity and scalability.
- **Separate code from community:** Code can be forked, but the collaborative spirit of a community cannot; we invest heavily in shared ownership.
- **Design for extensibility:** A modular architecture is essential for enabling third-party contributions and future innovation.
- **Align with existing ecosystems:** Integrating with existing developer workflows rather than reinventing the wheel.
- **Plan for post-project sustainability:** By embedding MOSAICO within a broader open source ecosystem, we ensure its results continue to evolve after official EU funding ends.

The Impact: Shaping Europe's digital future

If successful, MOSAICO will fundamentally change how AI is used in software engineering. For developers, it provides access to transparent, collaborative agent systems that offer improved reliability. For the European tech ecosystem, it strengthens sovereign digital infrastructure and accelerates innovation through shared, reusable building blocks.

Ultimately, MOSAICO is not just about advancing AI technology: it is about shaping how that technology is governed, shared, and sustained.



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