Eclipse SDV Silicon Valley Meetup

Eclipse SDV: Open Source, Open Collaboration and Beyond



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Open-source middleware is now a business decision

What Berylls found when modeling the economics for OEMs and suppliers

20–40%
lower lifecycle effort

10–20%
faster development + adaptation

24–36 mo.
until OEM adoption decisions

Open-source middleware has moved past proof of concept. Its main value is not free software, but **reduced vendor dependency**, **reduced complexity**, and **engineering effort freed** from non-differentiating layers.

A caveat

Savings assume active contribution while the baseline is being decided – a window measured in months, not years. Lifecycle risk is no higher than proprietary development, but shifts from technical debt to shared governance.

Source

Berylls, “Efficiency Gains from Open-Source Middleware Adaptation”, whitepaper, Munich, August 2026 (berylls.com). Modeled estimates, assuming ~5 equally contributing parties.

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Eclipse SDV: a global, vendor-neutral ecosystem since 2022

55 members (Q3/2026) across Europe, North America and Asia

SDV.Ops Cloud based mobility solutions

Eclipse SDV

SDV.Edge in-vehicle software Stack

SDV.Dev toolchains and workflows

Using a “code first” approach, SDV-related projects focus on building the industry’s first open source software stacks and associated tooling for the core functionality of a new class of automobile.

- 4 years of operation
- 55 members
- 30+ Open Source Projects
- 4 active Governing Bodies, 1 Platform Council as ad-hoc committee

Our Strategic Members

BMW GROUP, CARIAD, Codethink, HARMAN A SAMSUNG COMPANY, Mercedes-Benz Tech Innovation, TRATON, BOSCH, VECTOR, ZF

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Members (November 2026)

Strategic Members

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WirelessCar
IAV
Infosys
LG
LUNATECH SIMPLIFY YOUR IT
LIEBHERR
Microsoft
life.augmented
Qualcomm
QORIX
Red Hat
REYCOM OF SWITZERLAND
SCHAEFFLER
T-Systems
USE BLOCKS
Valeo SMART TECHNOLOGY FOR SMARTER MOBILITY

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Reutlingen University
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ZIUR
DLR

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Updates from the Eclipse SDV Community

Membership update

Last changes: September 2026

	Q3 2026	Q2 2026	Total to date (2026)	Total 2025
Strategic members	0	0	**9**	9
Participant members	1	1	**29**	26
Supporter members	1	0	**8**	10
Guest members	0	1	**9**	7
TOTAL	**2**	**2**	**55**	**52**

New Supporting Members: Gigarator, AVIN Systems

New Participant Members: /

Upgraded to Participant: WirelessCar

New Guest members: /

Membership Terminated: AVL List

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Governance and ways of working

TECHNICAL ADVISORY COMMITTEE · NOVEMBER UPDATE

Moving TAC decisions to an RFC process

- The TAC is adopting an RFC-based process, modelled on the Rust Project, to record what was decided and why.
- Its home on Eclipse GitLab is live: sdv-technical-advisory-committee-rfcs. TAC members have developer access.
- A proof of concept showed the GitLab workflow: draft merge requests, review discussions, CI previews and a published RFC book.
- Next: migrate the existing GitHub pull requests to GitLab merge requests, with approvals and public visibility aligned with Eclipse Foundation staff.

Reconciling the TAC charter: powers and duties

- Thomas Michelbach presented a series of RFCs to align on the TAC's mindset, and members responded positively.
- RFC #6 will carry the actual charter change for the TAC's powers and duties.

Follow the RFCs on Eclipse GitLab

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Technical Advisory Committee | Tech Topics

Eclipse Hephaestus: safety-qualified toolchains

- A toolchain initiative for safety-qualified tooling, such as compilers for C/C++ and Rust.
- The Chair is preparing a proposal and connecting the relevant engineers.
- Discussion has started on how to fund safety-qualified tooling.

Reference architecture vs. blueprints

- A reference architecture describes principles and capabilities; a blueprint is a concrete, runnable setup.
- Principles, not prescriptions: “OTA update is a key capability” is the right level, “use protocol X for OTA” is not.
- Eclipse SDV Blueprints are valued because they are concrete: roughly 80% of one could serve as a company’s reference architecture.

Project purview criteria

- An RFC formalising the rating criteria and process for bringing projects under Working Group purview, drafted by Jiyuan Wang (BMW), is open for TAC review.

In progress

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Functional Safety Committee | November Status

1. Launch and governance

- Official kick-off on 15 September: operations set up, charter reviewed, chair election prepared.
- A strictly advisory mandate: expert guidance for SDV projects following the Functional Safety Process, rigour and consistency in applying it, and open, shared safety evidence across the ecosystem.

2. Infrastructure and tooling ready

- Public portal live at eclipsesdv.org/functional-safety-committee for approved minutes and member visibility.
- Automated mailing list active; private working repositories and collaboration spaces in place.
- Cross-project engagement model being shaped, evaluating GitHub Discussions and tooling to work with project leads.

3. Current focus and next steps

- Concluding the review of the Eclipse Foundation Functional Safety Process (EFFSP) and Operations Guide against the 2026/2027 Program Plan.
- Approving the inaugural minutes for publication and setting a recurring meeting schedule.
- Defining how to gather safety requirements and share best practices directly with active SDV projects.

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Launch of the Bharat (India) SDV SIG

SPECIAL INTEREST GROUP · LAUNCHED 28 OCTOBER 2026

Inaugural kick-off at the Bosch / ETAS campus in Adugodi, Bangalore, and online, organised by the Eclipse Foundation together with Bosch and ETAS.

Purpose and scope

- A regional hub to mobilise India's automotive software talent and industry.
- Faster local adoption of, and contribution to, flagship initiatives such as Eclipse S-CORE.
- Structured industry–academia collaboration and regional events.

Inaugural meeting

- Bosch/ETAS retrospective on the India SDV journey.
- Cross-company exchange on SDV aspirations, capabilities and areas of contribution.
- The SIG chose its name: Bharat SIG.

Governance and next steps

- Nominations and election for the SIG chair are open.
- Activity clusters, working groups and a meeting schedule are being finalised.

What is a SIG? Check it out here.

Members with development centres in India: nominate a regional lead and join the upcoming sessions.

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Eclipse SDV Hackathon Chapter Four (2026)

Hosted by ZF Group at Zeppelin University, Friedrichshafen, 6–8 Oct 2026



Hackathon participants in Friedrichshafen

57 participants in 10 teams

73% of participants were professionals

4/10 teams filed pull requests to Eclipse SDV projects

Who hacked

Engineers from Cummins, Allison Transmission, ZF, Schaeffler, TRATON, Capgemini and more – with students.

Read the blog

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Why Chapter Four was a success

Hosted by ZF Group at Zeppelin University, Friedrichshafen · 6–8 October 2026

57

on-site participants

10 teams of 5–6, backed by 11 hack coaches (1 remote)

73%

professionals

42 professionals, 15 students. A students-only team won the Innovation track

4/10

teams chose Freestyle

New track: teams brought their own challenge, filed PRs and proposed features

16

companies involved

11 attending, 8 supporting with hack coaches on site

FROM SIGN-UP TO SEAT

Registrations	73
After clean-up	64
On site	57

11% didn't show (7, all students).

ATTENDING COMPANIES · 11

ZF GROUP · TRATON · Mercedes-Benz Tech Innovation · SCHAEFFLER · Capgemini · Cummins · Allison Transmission · FEV.io · RT-RK · AUMOVIO · SiliconAuto

SUPPORTING COMPANIES WITH HACK COACHES · 8

ZF GROUP · TRATON · Mercedes-Benz Tech Innovation · eTAS · accenture · Red Hat · eteration · LIEBHERR

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Event format: two tracks, two kinds of judging

Teams pick the track that fits their goal; hack coaches and the jury look at different things

Innovation Track

6 teams

Teams build on pre-integrated projects and deliver the full story.

- Business case
- User experience
- Pitch
- Working demo

Freestyle Track

4 teams

NEW THIS YEAR

Teams bring their own challenge and aim for real contributions to Eclipse SDV projects.

- PRs
- Blueprints
- Integrations
- New features

JUDGED BY HACK COACHES

Technical substance

Does the code do what the team claims, and is it a meaningful use of Eclipse SDV technology?

JUDGED BY THE JURY

Pitch and business value

Jury members never score a team from their own organisation.

- Deck
- Business perspective
- Delivery
- Creativity

Where should Eclipse SDV Hackathon 2027 take place? Vote here!

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Projects and activities to watch

Emerging AI & Safety Technical Initiatives

Eclipse Enclave & Eclipse PanEval:

- Introduced across Eclipse AI / SDV touchpoints (and featured alongside the launch of the *Sovereign AI Foundation*).
- **Eclipse Enclave:** Sandboxing and OS-level containerization for running autonomous AI coding agents safely (addressing prompt injection and unintended code execution). Project and demo: https://projects.eclipse.org/proposals/eclipse-enclave & Eclipse Enclave Explained
- **Eclipse PanEval:** Open evaluation framework for AI model and code generation benchmarking.

AI4SDV (EU Initiative Kick-off):

- Formally kicked off in late September (Graz, Austria) with 45 partners across 10 European nations and over €50M in funding. October work focused on aligning AI4SDV's AI-assisted toolchains and workflows directly with Eclipse SDV tooling.

  Learn more about it here

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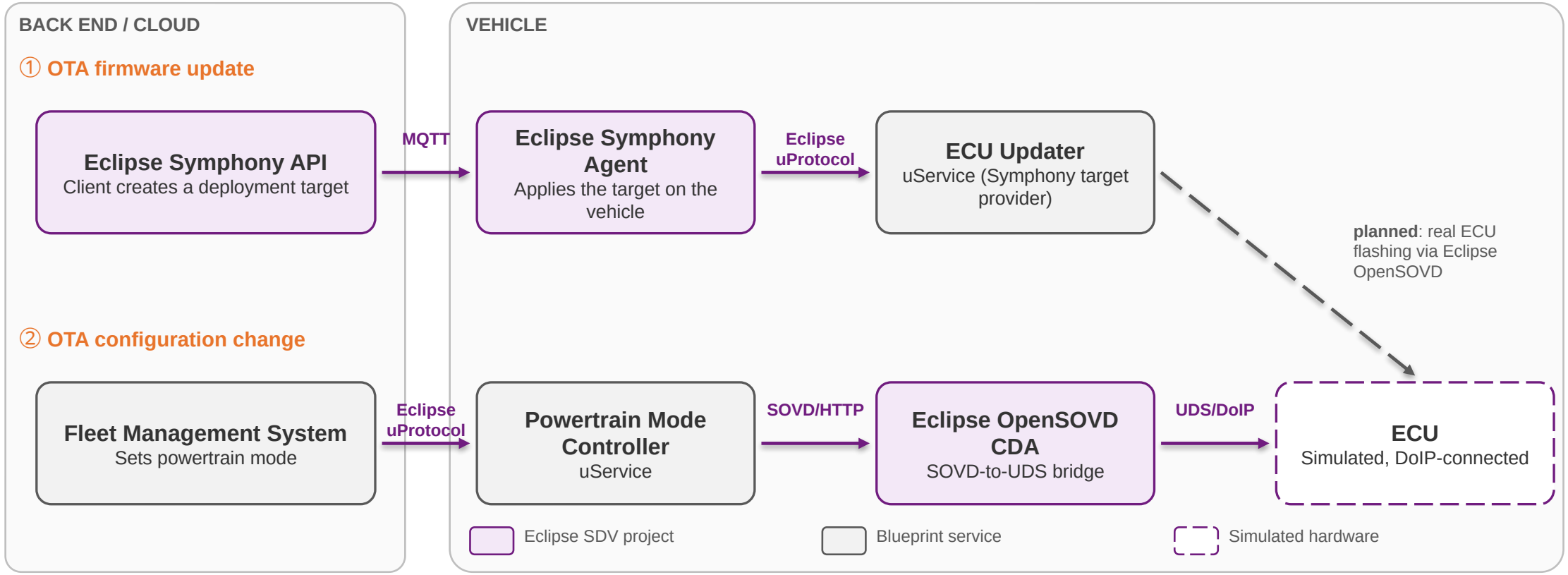
Eclipse SDV Blueprint: Commercial SDV Stack

How the components work together

Two commercial-vehicle use cases built entirely from Eclipse SDV components – runnable today with a single Docker Compose command.



Fleet operators need the same OTA and diagnostics building blocks – shared, not rebuilt

Apache-2.0 · github.com/eclipse-sdv-blueprints/commercial-sdv-stack

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Eclipse Enclave

Secure Sandboxing for Autonomous AI Coding Agents

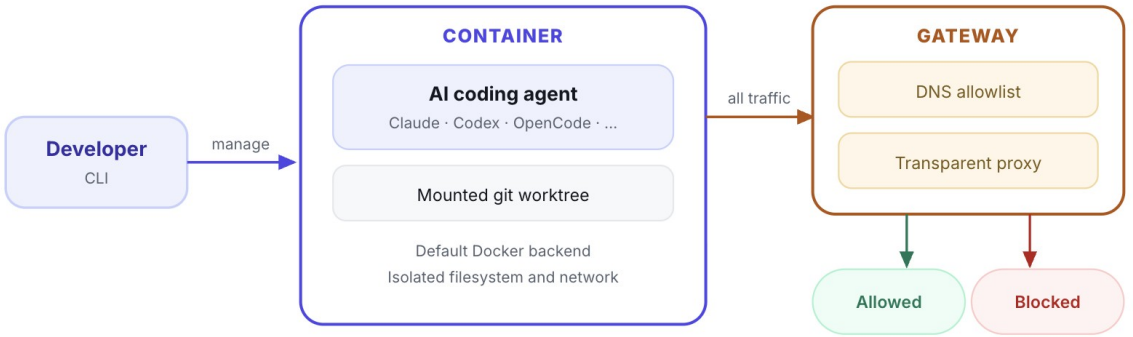
Full agent autonomy inside isolated containers.

The Problem

AI coding agents require extensive system permissions to be productive. Unrestricted access creates risks of system damage, secret leaks, and prompt injection.

Core Features

- **OS-level Containerization:** Docker-based isolation of filesystem and network.
- **Git Worktree Isolation:** Parallel agents operate on separate, isolated branches.
- **Network Policy Enforcement:** Sidecar gateway restricts traffic to allowlisted domains.
- **Compliance Foundation:** Audit trails for EU AI Act and Cyber Resilience Act readiness.



Supported Agents

Claude Code, Codex CLI, Gemini CLI, Theia AI, and OpenCode.

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Eclipse S-CORE Verified

A compatibility program for Eclipse S-CORE

Project Proposal

Eclipse S-CORE Verified runs any distribution that claims to be built on Eclipse S-CORE against an open, versioned test suite – reproducible evidence instead of marketing claims.

What it checks – and how

1. Same APIs

Public APIs and interfaces match the upstream Eclipse S-CORE baseline at a stated version.

2. Same behaviour

Runtime behaviour of covered components matches the upstream reference.

3. Traceable

Shipped components trace back to upstream commits and release tags.

4. Run it yourself

Distributors, OEMs, integrators and academia run it and get comparable results.

5. Versioned with S-CORE

One suite version per Eclipse S-CORE release, starting with v1.0.

6. Vendor-neutral

Governed at the Eclipse Foundation – no single company controls the verdict.

New in 2026: project created under Eclipse Automotive, starting with S-CORE v1.0

Not a certification or safety assessment – but a compatibility check.

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Eclipse VAMUS & Eclipse PanEval

Project Proposal

Cross-domain motion control for commercial vehicles – and open evaluation of large AI models

PROPOSAL · COMMUNITY REVIEW

Eclipse VAMUS

Vehicle Adaptive Motion Unification System

Open frameworks and standardized interfaces to coordinate longitudinal vehicle motion across engine, transmission, electrification and braking.

- Initiated by Cummins; first reference implementation targets heavy-duty commercial vehicles
- Rust applications, Eclipse Cyclone DDS, containerized (OCI) deployment
- ECU Integration Extensions keep supplier algorithms and calibrations proprietary
- Experimental today (0.1.0-alpha); 18-month plan to a distributed reference implementation

WHY IT MATTERS

Shared motion-control interfaces – differentiating control algorithms stay with each supplier.

INCUBATING · ECLIPSE TECHNOLOGY

Eclipse PanEval

Open evaluation platform for large models

Scientific, impartial and open benchmarks, methodologies and tools to assess foundation models.

- Three-dimensional framework: Capacity (what to evaluate), Task (how), Metrics (how to measure)
- 4 model categories – language, multimodal, vision, speech – with 40+ evaluation tasks
- Safety & robustness as a cross-cutting dimension for every category
- Apache-2.0 licensed, developed under vendor-neutral Eclipse governance

WHY IT MATTERS

Open, reproducible evidence for choosing AI models – instead of vendor benchmark claims.

projects.eclipse.org/proposals/eclipse-vamus · projects.eclipse.org/projects/technology.paneval

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Eclipse SDV is not only for passenger cars

One software architecture for passenger cars, commercial vehicles and autonomous UAVs

Application Layer
Mixed criticality Middleware & Service mesh
Workload Orchestration
(Hypervisor) Real-Time OS
Hardware Abstraction



Shared constraints

- Real time applications
- Safety critical software
- High resource constraints
- Need for hardware abstraction
- Reliable but agile software

Software-defined vehicle: a standard architecture

Eclipse SDV projects mapped to each layer – one stack for cars, trucks and UAVs

Application layer	**Differentiating applications** – where each company competes
	VALUE LINE: compete above, collaborate below
Mixed-criticality middleware & service mesh	**Eclipse S-CORE** | **Eclipse uProtocol**
Workload orchestration	**Eclipse Ankaios** | **Eclipse BlueChi**
(Hypervisor) real-time OS	**Eclipse ThreadX**
Hardware abstraction	**Device abstraction**

Source: eclipse-score.github.io – S-CORE software architecture overview

Inside Eclipse S-CORE

Safety-compliant, service-oriented software platform for high-performance ECUs

- **C++ & Rust base libraries**
- **System services (e.g. logging, storage mgmt, lifecycle)**
- **Platform API**
- **Communication**

OFF-BOARD BONUS

Diagnostics: **Eclipse OpenSOVD**

End-to-end orchestration: **Eclipse Symphony**

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Safety evidence, built in the open

Open source, safety-certifiable (ISO 26262) toolchain – with independent assessments

1. Requirements & Design

sphinx-needs (Docs-as-Code)
Digital thread linking stakeholder & component reqs down to unit tests.

Eclipse TSF
Trustable Software Framework assessed to ASIL D by exida (11/2025).

2. Build & Environment

Bazel Build System
Hermetic, reproducible build system centralizing C/C++, Rust, and Python.

Ferrocene (Rust Toolchain)
Open-Source Core with Safety-Certifiable (ISO 26262) Pipeline.

ASIL-B

Devcontainers & SDK
Standardized developer environment with pre-configured tools.

3. Verification & Audits

CI/CD & GitHub Actions
Automated build, test execution, and traceability reporting on every PR.

S-CORE Verified
Open test suite verifying S-CORE compatibility (next slide).

Exida Safety Audits
Continuous process & quality audits (ASPICE / ISO 26262 compliance).

To be Audited

Eclipse SDV

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Eclipse SDV development funding

Governance and scope of EU Financial Support for SMEs

WIP: it will take time..

01 We support our projects

Eclipse SDV projects gain the features, integration and tooling they need, delivered as merged code in their own repositories.

02 We give membership value

The governing bodies, formed by representatives of strategic and participant members, define and prioritise the funding backlog. Members decide what gets built.

03 We broaden the ecosystem

Covering part of their costs lowers the barrier for SMEs, startups and independent developers to contribute to Eclipse SDV open source.

04 Public money, public code

Public funding goes into open code that benefits the whole automotive ecosystem, not one company’s product.

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Program plan 2027: from repo to road

Coming up in 2027: adoption & visibility

Eclipse SDV Program Plan 2027 – from repository to road

COMMUNITY & OUTREACH

Eclipse S-CORE 1.0 release & adoption

Support finalization and official announcement of the 1.0 release.

2027 TARGET

1.0 announced; adoption in series development tracked and referenced.

PROJECT SUPPORT

Eclipse S-CORE Verified compatibility program

Let implementations demonstrate verified S-CORE compatibility.

2027 TARGET

Program rules published; first implementation verified.

COMMUNITY & OUTREACH

IAA Mobility 2027, 7–12 September

25 m² B2B booth with member presence and use cases.

2027 TARGET

Booth delivered with member use cases.

WHY IT MATTERS · ADOPTION & VISIBILITY

Take Eclipse S-CORE from release to series development – and show the industry what Eclipse SDV delivers.

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Coming up in 2027: trust & safety

Eclipse SDV Program Plan 2027 – from repository to road

PROJECT SUPPORT

Independent audit of Eclipse OpenBSW

Process audit analogous to the S-CORE approach.

2027 TARGET

Audit completed; findings shared with the project.

PROJECT SUPPORT

AI-supported development of safety-relevant SW

Host an AI-supported platform; external evaluation of the S-CORE concept for AI-created, safety-qualifiable artefacts.

2027 TARGET

One use case evaluated (e.g. requirement review).

PROJECT SUPPORT

Functional Safety Committee activation

Seats and chair by end of Q1, quarterly meetings, oversight of audits and the AI evaluation.

2027 TARGET

Committee operational; status reviewed mid-year.

WHY IT MATTERS · TRUST & SAFETY

Back safety-relevant open source with independent evidence – and give the Functional Safety Committee a real mandate.

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Coming up in 2027: ecosystem growth

Eclipse SDV Program Plan 2027 – from repository to road

COMMUNITY & OUTREACH

SME development funding

Lower the barrier for SMEs to contribute through dedicated development funding under a proven governance blueprint.

2027 TARGET

Governance model approved; funding mechanism launched.

RELATIONSHIP WITH OTHER INITIATIVES

Global liaisons, focus JasPar & Yoriito

Structured liaisons with global open source and standards communities to avoid duplication and align roadmaps and interfaces.

2027 TARGET

Active liaisons with named contacts; alignment with JasPar and Yoriito in Japan.

CROSS-DOMAIN SYNERGIES

Synergy with UAVs & drones

Reuse the Eclipse SDV stack beyond road vehicles: same layered architecture and safety process for autonomous UAVs and drones.

2027 TARGET

First joint use case with UAV and drone players on Eclipse SDV components.

WHY IT MATTERS · ECOSYSTEM GROWTH

Widen who can contribute – and align Eclipse SDV with communities beyond Europe and beyond the car.

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Sovereign AI Foundation

An Eclipse Foundation Interest Group enabling digital sovereignty, open innovation, and choice in AI. Launched Sept 30.

Key Focus Areas

01

Use Case Mapping

Documenting and building a shared view of real-world open source AI deployments and priorities across sectors.

02

Technology Assessment & Trend Monitoring

Evaluating foundation models, evaluation frameworks, inference infrastructure, and regulatory guidance.

03

Collaborative Documents & Blueprints

Producing shared whitepapers, best practices, and reference architectures to inform member strategies.

04

Ecosystem & Research Dissemination

Translating outcomes from EU-funded research projects into practical insights and building peer communities.

Core Pillars of AI Sovereignty

Operational Resilience & Control

Maintain continuity, security, and performance when conditions shift. Determine where sensitive data is processed across cloud, edge, or on-premise.

Freedom to Change Course

Evaluate, adapt, or replace models and infrastructure without lock-in, avoiding rebuilds when costs or provider terms change.

Human Oversight & Accountability

Understand, explain, and audit AI-supported decisions, ensuring transparent compliance and alignment with regulatory frameworks.

Vendor-Neutral Governance

Operating under established Eclipse Foundation policies, enabling open collaboration and equal participation for all members.

SAIF SOVEREIGN AI FOUNDATION

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Get Involved with Eclipse SDV

Where to find us and how to stay in touch

Mailing List

Subscribe for community discussions and updates.

Slack Workspace

Join real-time discussions on our Slack workspace.

Community Calendar

Track events via Google or ICS formats.

SDV Newsletter

Quarterly news detailing industry breakthroughs.



Scan to join us

eclipsesdv.org/get-involved

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Eclipse SDV Community Day Q4 Munich

Hosted by Accenture – Munich 2026

Date: December 2–3, 2026

Location: Munich, Germany (Hybrid Event)

What to expect:

- Presentations on new open-source contributions and community projects
- Collaborative efforts towards an all-open-source Eclipse SDV Distribution
- Interactive developer-centric sessions with peers and industry experts
- Networking opportunities for developers, new members, and decision-makers



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SAVE THE DATE · 2 DECEMBER 2026

Eclipse S-CORE 1.0 will be announced in Munich and Seoul on the same day

0.9 milestone reached

Architectural enhancements, new capabilities and stability improvements pave the way to 1.0.

Munich · 2 - 3 December

Q4 Eclipse SDV Community Days, hosted by Accenture. Hybrid.

Seoul · 2 December

Second Eclipse SDV Community Meetup in South Korea, hosted by LG Electronics. Hybrid.

1.0 is the starting line, not the finish line: in 2027 our focus shifts from what we build together to what the industry achieves with it.

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What is OCX 27?

13-15 April 2027 · Brussels, Belgium

3	600+	120+	100+
Days	Attendees	Sessions	Speakers

OCX connects tech communities, letting each go deep in its field while staying connected to the ecosystem.

Five Focused Tracks:

- **Software-defined systems & mobility:** **Architectures, platforms, and engineering practices for software-defined vehicles, embedded and edge systems, robotics, and autonomous systems.**
- **Modern software development**
- **Digital autonomy & technological sovereignty**
- **Cybersecurity & regulatory compliance:**
- **Research & innovation:**

Register for OCX

- Sessions across all 5 tracks
- Workshops & Birds of a Feather
- Lunch, coffee, snacks & networking
- Exhibition area & OCX mobile app

Become a Speaker

Show us something real: Real-world examples and demos help bring ideas to life.

Share what you've learned: Tell us what worked, what didn't, and key lessons.

Make it useful: Leave attendees with practical approaches.

Proposal Deadlines

Early Bird:
9 Nov 2026

Final Call:
6 Dec 2026

Submit a talk

Questions about submitting or speaking? Email speakers@ocxconf.org