



European SDV Ecosystem Summit 2025 marks major step toward open, collaborative future for Software-Defined Vehicles

Munich, Germany – May 20, 2025 — The European Software-Defined Vehicle (SDV) Ecosystem took an important step forward at the **European SDV Ecosystem Summit 2025**, a flagship networking event hosted by **FEDERATE** at Infineon Technologies AG in Munich. The summit brought together more than 100 key stakeholders from across Europe's automotive, technology, and research sectors for a full day of collaboration, presentations, and strategic dialogue aimed at accelerating the transition to open, modular SDV platforms.

Organized under the European **CHIPS Joint Undertaking** framework (Grant Agreement No. 101139749), the event highlighted Europe's commitment to sovereign digital vehicle technologies, driven by open standards and cross-industry cooperation.

Driving SDV innovation together

The day began with a warm welcome from **Oliver Höing**, representing Germany's Federal Ministry of Research, Technology and Space, followed by a powerful keynote from **Thomas Schneider**, Senior Director at Infineon Technologies AG, who emphasized the collective need for "leading the future of automotive innovation in SDVs—together."

Additional keynote speakers included:

- **Markus Rettstatt** (Mercedes-Benz Tech Innovation GmbH), on accelerating SDV development within open-source ecosystems
- **Max Lemke** (DG-Connect, European Commission), who stressed the importance of strong collaboration between public authorities and industry to support digital vehicle evolution

FEDERATE and the SDVoF initiative in focus

In the mid-morning session, **Michael Paulweber** (AVL List GmbH) provided an update on the **FEDERATE** coordination and the **Software-Defined Vehicle open Federation (SDVoF)** initiative. This was followed by a scientific outlook presented by **Daniel Watzenig** (Virtual Vehicle Research GmbH), and a showcase of the **RIGOLETTO** project by **Knut Hufeld** (Infineon Technologies AG), highlighting innovations in hardware abstraction and safety-critical software development.



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The Project has been accepted for funding within the CHIPS Joint Undertaking (CHIPS JU) under Call HORIZON-KDT-JU-2023-3-CSA-IA / Grant Agreement No. 101139749

Standards, Open Source, and Real-World Deployment

The afternoon was structured around the theme “**From Building Blocks to Start of Production (SOP)**,” featuring contributions from leading European and global initiatives:

- **Eclipse SDV and S-CORE**: Presented by **Sara Gallian** (Eclipse Foundation) and **Detlef Zerfowski** (Bosch/ETAS), offering insights into modular development environments
- **COVESA**: **Jan Kubovy** (BMW) and **Emil Dautovic** (RemotiveLabs) shared use cases built on the Vehicle Signal Specification (VSS)
- **AUTOSAR and SOAFEE**: Talks by **Michael Niklas-Höret** (Continental) and **Bernhard Rill** (ARM) explored the integration of traditional automotive standards with emerging open-source frameworks

Christian Merkt (BMW) also introduced the **CCAM Partnership**, illustrating its alignment with SDVoF goals, particularly in the context of connected and automated mobility.

Project Showcase: From Concept to Code

A highlight of the event was the **SDV Project Session**, where three pioneering initiatives took center stage:

- **HAL4SDV** (TTTech): Aiming to create a safety-critical, service-oriented platform with hardware abstraction layers for SDVs
- **CODE4EV** (Armengaud Innovate): Focused on development tools and process optimization for electric vehicle software pipelines
- **Twin-Loop** (Mosaic Factor): Introducing an open framework for software-defined EVs with continuous integration and OTA capabilities

These projects reflect Europe’s shift from theoretical frameworks to executable, testable platforms that are rapidly approaching production readiness.

The launch of the FEDERATE Building Block (BB) Repository

The Summit concluded with the unveiling of the **FEDERATE BB Repository**, a shared resource for reusable, open-source software modules aimed at accelerating innovation across the ecosystem. The session, led by **Mario Driussi** (Virtual Vehicle) and **Michael Paulweber**, emphasized interoperability and collaboration as pillars of Europe’s SDV roadmap.

A collaborative future for European mobility

As the event closed, the message was clear: Europe’s SDV ecosystem is maturing, with a collective will to lead globally—not through isolated innovation, but through shared infrastructure, open-source development, and strategic alignment. The summit offered not only knowledge exchange but also tangible next steps in joint projects, standards alignment, and long-term regulatory vision.

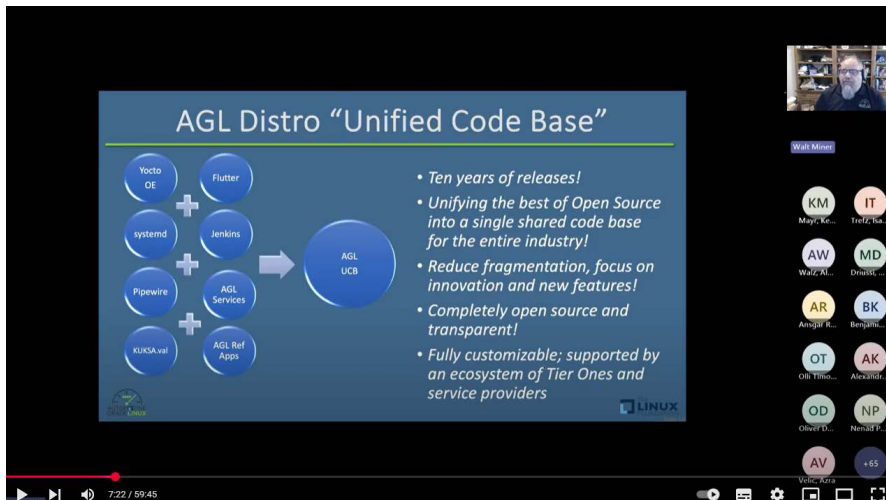
“We’re no longer talking about SDVs as a future concept,” said Michael Paulweber in closing. “The foundations have been laid. Now it’s time to build—and we must do it together.”

Presentations of the Summit can be accessed at: <https://federate-sdv.eu/presentations>

Moments from the Summit: <https://federate-sdv.eu/dissemination/#DisseminationPhotos>



Missed our AGL TechTalk or GitHub webinar? Catch the recordings now!



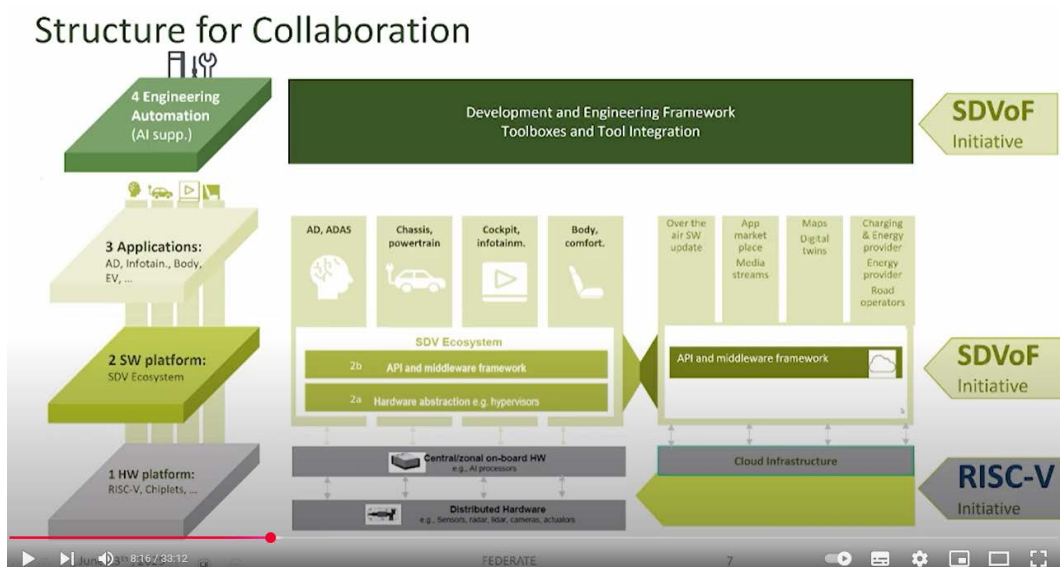
Great news from our [FEDERATE youtube channel](#):

The recording of the TechTalk “All about Automotive Grade Linux (AGL) and there Building Blocks!” and a recording of a Webinar about the “Navigating the GitHub Building Block Repository” are online available.

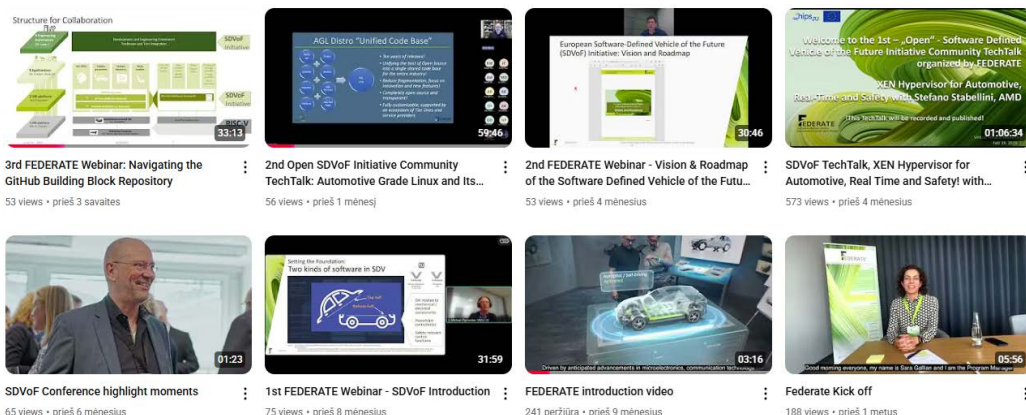
During the [AGL TechTalk](#), we gained a solid overview of the AGL ecosystem – from its governance and release cycles to its growing set of reference implementations. The session offered valuable insight into how AGL is structured, how it's evolving within the Linux Foundation, and how its components are applied in real-world use cases across the automotive domain. The TechTalk was well attended and generated active interest from

colleagues across the SDVoF community. A recording of the session is available on the [FEDERATE YouTube channel](#) for anyone who missed it or would like to revisit the presentation.

The [3rd FEDERATE Webinar](#) introduced the [FEDERATE GitHub Repository](#) through a general walkthrough and structural overview. It explained the repository's organization, with a focus on the meaning and purpose behind the folder and naming conventions. Future participants in the project were guided through the repository's Wiki, which outlines the background of the project, its goals, and its core tasks within the SDV context. We also explored the glossary, which describes each building block in detail and helps users navigate the repository with greater clarity. Finally, the session demonstrated how to contribute to the repository and where to find contribution guidelines, making it easier for teams to collaborate and extend the platform.



Stay tuned for more SDV sessions coming soon.



Recap of SDV events with FEDERATE participation in May 2025

Over the past weeks, the FEDERATE team participated in several key events across Europe, each highlighting different aspects of innovation in the automotive and open-source ecosystem.

The journey began with the **ADTC Conference** in Grenoble. It is a collaboration event for experts in the fields of nanoelectronics applications, design and technology. The event focused on electronic components, electronic system design, design automation, and manufacturing topics related to micro- and nanoelectronics. In addition, the topics software-defined vehicle (SDV) and embedded systems were addressed this year. Discussions were considering modular architectures, real-time capabilities, and the importance of open collaboration in automotive software development.

Members of the FEDERATE team also joined the **Automotive Open Source Summit** in Starnberg, hosted by the Eclipse Foundation. This summit emphasized the strategic role of open-source technologies in the automotive industry, covering topics such as safety-critical applications, compliance, and aligning open-source initiatives with evolving industry needs.

The FEDERATE team also took part in the **EUCAD 2025 Conference** in Ispra, organized by the European Commission and the Joint Research Centre (JRC). EUCAD focused on cooperative, connected, and automated mobility (CCAM), with a strong emphasis on research, policy, and cross-sector collaboration. The event brought together public and private stakeholders to discuss how to safely and sustainably scale automated driving technologies in Europe.

Following that, FEDERATE attended the **16th AUTOSAR Congress** in Bruges. This key industry assembly focused on standardized software architectures for automotive systems, highlighting recent developments in the AUTOSAR Adaptive and Classic platforms, as well as strategies for integration into modern, service-oriented vehicle environments.

Finally, FEDERATE also joined the **COVESA All Member Meeting (AMM)** in Berlin. The AMM focused on open standards and data interoperability for connected and software-defined vehicles, with working sessions advancing initiatives like the Vehicle Signal Specification (VSS) and Common Vehicle Interface (CVI). FEDERATE presented its vision of the SDV of the Future collaboration model and promoted the projects **Shift2SDV** and **HAL4SDV**.

Each of these events offered unique insights, technical deep dives, and excellent opportunities to engage with thought leaders and collaborators shaping the future of mobility, connectivity, and automotive software.



Upcoming events 2025

1

Eclipse SDV
Hackathon
30.09-02.10
in Berlin & Porto

2

Open Community
for Automotive
(OCA) a co-located
event under the
umbrella of
OpenCommunity
Experience
(OCX) : 21-23 April
2026, Brussels

