FEDERATE

Software-Defined Vehicle Support and Coordination Project

D5.6 Second Dissemination and Communication Activities report
M24

Period covered by the report: *from 01/10/2024 to 30/09/2025*

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Definitions

Table 1: Definitions, Acronyms, Abbreviations

Abbreviations	Meaning
BB	Building Block
CCAM	European Partnership for Cooperative, Connected and Automated Mobility
CIO	Chief Information Officer
CTO	Chief Technology Officer
DG Connect	Directorate-General for Communications Networks, Content and Technology
EC	European Commission
MC	Master of Ceremony
OCX	Open Community Experience
OEMs	Original Equipment Manufacturers
QA	Questions-Answers
R&D&I	Research & Development & Innovation
R&D	Research & Development
SDV	Software-Defined Vehicle
SDVoF	Software-Defined Vehicle of the Future
SME	Small and Medium-sized Enterprise

1 Executive Summary

During the second reporting period, FEDERATE's dissemination and communication activities continued to play a key role in promoting the European Commission's Software-Defined Vehicle (SDV) initiative and engaging stakeholders across the automotive value chain.

The initial Dissemination Plan (D5.3), delivered in M6, outlined the strategies, actions, and tools to guide FEDERATE's communication and outreach efforts. The First Dissemination and Communication Activities Report (D5.5), submitted in M12, provided an overview of activities conducted during M1–M12, aimed at establishing initial awareness of FEDERATE's objectives and scope, as well as capturing early lessons to refine future strategies.

The **Second Dissemination and Communication Activities Report** builds upon that foundation, covering the period M13–M24, more specifically:

1. **Presents updates to the Dissemination strategy,** with refined target groups and tailored activities for each.
2. **Presents major dissemination and communication actions undertaken** during the second reporting period, with a focus on events and initiatives that have driven measurable engagement and impact.

This includes the **SDV Ecosystem Forum**, where key stakeholders from industry, academia, and policy-making bodies exchanged insights, fostering collaborations that support the project's objectives.

3. **Summarises FEDERATE's presence at SDV-related conferences, webinars, and tech talks** conducted during the second reporting period, highlighting both the reach achieved and the feedback received from the participants.
4. **Details the communication materials produced between M13 and M24**, including online content, visual assets, and targeted outreach campaigns, and evaluates their contribution to increasing FEDERATE's visibility and stakeholder interaction.
5. **Assesses the impact of activities** in strengthening awareness, stakeholder engagement, and positioning FEDERATE as a central contributor to the SDV landscape in Europe.

The structure of this document follows the framework established both in the Dissemination Plan (D5.3) and First Dissemination and Communication Activities Report (D5.5), ensuring alignment between the dissemination and communication strategies and their implementation.

The Dissemination and Communication Activities Report will continue to be updated at M36, allowing for a consistent and comprehensive record of FEDERATE's engagement efforts and their outcomes throughout the project's lifecycle.

2 Introduction & Scope

2.1 Mission of FEDERATE

FEDERATE is a Coordination and Support Action designed to unite key stakeholders in accelerating the development of a European Software-Defined Vehicle (SDV) ecosystem, fostering a dynamic community and coordinating SDV-related R&D&I activities. Its consortium brings together major European OEMs, automotive tier suppliers, semiconductor companies, industry associations, and SDV-focused initiatives, supported by a dedicated scientific board.

The project works towards a shared vision for the SDV programme, providing coordinated guidance for both current and future projects. Its mission centres on three main objectives:

1. *Coordinating* ongoing and upcoming initiatives
2. *Defining* a coherent, long-term strategy for the European SDV landscape
3. *Strengthening* the SDV community through active engagement and collaboration

By aligning efforts across European and nationally funded R&D&I projects, FEDERATE promotes a synergistic approach to a SDV platform development, assesses the implementation of recommended building blocks (BBs), and formulates strategic recommendations and roadmaps. This collaborative framework helps shape future funding calls and ensures that expertise, resources, and innovation efforts are effectively pooled to accelerate progress across the SDV ecosystem.

2.2 Purpose of this Document

The objective of Task 5.5, "Dissemination and communication activities, including tools and materials" (T5.5), is to enhance the visibility of the project and support the generation of impact from its results.

In M6, Deliverable D5.3 was produced as the outcome of T5.5, providing a roadmap for current and future FEDERATE dissemination and communication activities, ensuring alignment with the project's objectives and milestones. Afterwards, the 1st Dissemination and Communication Activities report was produced in M12 to report on how the strategies, approaches, and tools defined in D5.3 were implemented during M1-M12.

This document reports on FEDERATE's dissemination and communication activities during M13–M24, detailing major actions, events, and materials that have strengthened visibility and stakeholder engagement. It also presents updates to the Dissemination strategy, including refined target groups and tailored activities.
The report also evaluates the impact of these efforts in positioning FEDERATE as a key contributor to the European SDV ecosystem.

Figure 1: Interplay of WP5, T5.5, D5.3, D5.5 and D5.6

In D5.3 and D5.5, dissemination and communication methods and tools were structured into two categories:

a) Dissemination strategy

b) Communication strategy

D5.6 retains this format to ensure consistency with the Dissemination Plan and the 1st Dissemination & Communication Activities Report, while clearly distinguishing activities according to their specific focus.

Additionally, this document includes updates to the Dissemination strategy, reflecting recommendations from the European Commission (EC) given during the 1st Project Review Meeting (Section 3.1 of this document).

3 Dissemination Activities (M13-M24)

Between months 13 and 24, the FEDERATE project moved from establishing its initial communication framework to actively engaging with stakeholders through a mix of events, publications, and multimedia outreach. Foundational deliverables published at the end of the first year—such as the First Dissemination and Communication Activities Report, the Stakeholder Engagement Strategy, the Strategic Roadmap (first version), and the Prioritized Backlog Report—set the stage for targeted dissemination. These outputs provided clear direction for outreach while ensuring transparency and accessibility for the wider community.

Building on this foundation, FEDERATE organised and participated in key public events, including the EFECS 2024 in Ghent and the European SDV Ecosystem Summit in Munich (May 2025), and many others (detailed list can be found in Section 3.2.1). The project also broadened its reach through a series of webinars; Tech Talks and professionally produced videos. It also covered topics such as the SDVoF vision and roadmap with specific presentations and made practical demonstrations during SDV events like navigating the GitHub Building Block Repository. Together, these activities strengthened visibility, encouraged collaboration, and connected the project's technical work with its growing European ecosystem.

3.1 Refined target (stakeholder) groups

At the outset of the FEDERATE project, a set of primary target groups was identified to guide communication and engagement efforts, encompassing stakeholders such as industry players in the software-defined vehicle domain, research institutions, policy makers, and relevant standardisation bodies. Following the 1st Review Meeting, and in line with the recommendation to refine these categories, the consortium undertook a more granular analysis to better align dissemination activities with each group's specific needs and channels. This refinement involved segmenting audiences more precisely—distinguishing, for example, between different tiers of industry stakeholders, separating technical from non-technical policy actors, and recognising distinct communities within the research and developer ecosystems. As a result, the dissemination strategy was updated to map targeted actions, messages, and communication formats to each segment, ensuring more effective outreach and impact across the diverse stakeholder landscape.

Figure 2: Main target groups in FEDERATE

Table 2 outlines the stakeholder categories along with their respective sub-groups. Based on this refined classification, dissemination actions are mapped to each group and sub-group, enabling a more targeted and effective approach to the FEDERATE stakeholder engagement.

Table 2: Dissemination actions for project stakeholders

Stakeholder category	Sub-categories	Dissemination actions
Original Equipment Manufacturers (OEMs)	Large multinational OEMs; Niche vehicle manufacturers; New mobility providers	Workshops & roadmap discussions; Engagement by webinars, tech talks; FEDERATE SDV Conferences
Supply Chain Industry	Tier-1 suppliers; Tier-2 component suppliers; Software & middleware providers	Project newsletters; Case study publications (if any); FEDERATE SDV Conferences
Semiconductor Industry	Chip manufacturers; Embedded solution providers	Technical webinars; Hackathons
Policy Makers	EU-level bodies; National ministries; Standards & certification agencies	Policy roundtables; Whitepapers; Briefing sessions
Scientific Communities	Universities; Research institutes; Standardisation research groups	Collaborative research calls; Joint conferences

Stakeholder category	Sub-categories	Dissemination actions
Industry Associations & Initiatives	Automotive clusters; SDV alliances; EU-funded SDV projects	Cross-promotions in social media, websites; Co-branded webinars; Joint workshops
General (Non-technical) Public	Vehicle consumers; EU mobility advocacy groups	Infographics & videos; communication in social media, FEDERATE website
Other Stakeholders	Investors; Cybersecurity specialists	Presentation of FEDERATE in SDV events, Cybersecurity roundtables

The refinement of the stakeholder groups and the tailoring of dissemination actions for each category follow a clear logic: different stakeholders contribute to and benefit from the Software-Defined Vehicle (SDV) ecosystem in distinct ways and therefore require customised engagement strategies.

By breaking broad categories into more specific sub-groups - such as distinguishing between large OEMs, niche manufacturers, and new mobility providers - the dissemination plan ensures that engagement channels are precisely matched to each audience's priorities and level of technical involvement. This targeted approach increases the likelihood of active participation, as stakeholders receive relevant information in formats that fit their decision-making and collaboration processes.

The dissemination actions selected for each group are designed to leverage their preferred modes of interaction and influence. For example, OEMs and semiconductor players are best reached through highly technical exchanges such as workshops, hackathons, and roadmap discussions, which allow them to shape and integrate SDV solutions directly. Policy makers, in contrast, require strategic briefings and whitepapers to connect SDV developments with regulatory and societal goals. Similarly, the general public and advocacy groups benefit from accessible formats, such as infographics and easily understandable videos, as well as public events that demystify the technology.

During the second reporting period, FEDERATE put this refined stakeholder mapping into practice, actively tailoring its outreach and communication to the defined categories and sub-categories. This meant not only adjusting the messaging but also ensuring that engagement formats were aligned with the preferences and needs of each group.
Collaborations were strengthened through joint dissemination activities with industry associations and other SDV projects. This demonstrated that the refined dissemination approach not only expanded the network but also enhanced the quality of engagement, laying a more solid foundation for building a truly comprehensive European SDV ecosystem.

The following section outlines the dissemination measures implemented during the second reporting period. It provides a detailed account of the strategies and activities undertaken to share project results, engage stakeholders, and increase visibility within the relevant target group. By highlighting these efforts, this section demonstrates how knowledge transfer, outreach, and communication objectives were pursued to maximize the impact and reach of the project's outcomes.

3.2 Dissemination Measures

During the second reporting period, dissemination activities focused on ensuring broad visibility and engagement with both internal and external stakeholders. The consortium actively participated in external

events to present the project progress, foster collaborations, and strengthen its network within the SDV communities. One project-specific event was organized and hosted, providing a platform for knowledge exchange, demonstration of results, and discussions. Key deliverables and technical reports produced during this period will be made publicly available through the FEDERATE website, ensuring transparent communication of outcomes, once approved. In addition, the project team organized a series of webinars and Tech Talks, enabling targeted dissemination of technical SDV aspects, innovative approaches, and best practices to a broader audience. These combined measures contributed to raising awareness, enhancing stakeholder involvement, and promoting the project's objectives and results across different channels.

3.2.1 Events

The events listed below are considered to be of two types:

(1) *external (networking, collaboration) events,* which were attended by FEDERATE partners
(2) *events that are (co)organized* by *FEDERATE*.

Table 3 below presents a list of external (networking, collaboration) events that were attended by the consortium partners from M13 until M24.

Table 3: List of external (networking, collaboration) events attended, M13-M24

Date	Location	Name of event	Partner attended	Link to more information	Outcome
2024-10-01	Brussels, Belgium	EARPA Autumn Meeting 2024	Michael Paulweber (AVL)	https://www.earpa.eu/events/earpa-autumn-meeting-2024/	SDV community was informed about current and future FEDERATE activities. Discussions on technical SDV topics as well as business models were carried out.
2025-01-07	Brussels, Belgium	ERTRAC Conference	Horst Pflügl (AVL); Christian Merkt (BMW)	ERTRAC Conference 2025: Registration open - CCAM	FEDERATE joined the discussions such as Connectivity & Automation, Urban Mobility, Road Safety and others.
2025-01-22	Barcelona, Spain	HiPEAC Conference – HiPEAC 2025	Andreas Eckel (TTTech)	HiPEAC 2025 - HiPEAC	FEDERATE presented together with HAL4SDV
2025-02-12	Versailles, France	International Congress: SIA CESA	Detlef Zerfowski (ETAS)	SIA CESA 2025	Collaboration in Open Source across the industry encouraged
2025-02-21	Oulu, Finland	Seminars and webinars: *Automotive Future of the European software defined vehicles*	UOULU	Future of the European software defined vehicles	Event organized by Oulu University. FEDERATE was introduced as well as the presentation was given how the landscape in terms of software and hardware standards is

Date	Location	Name of event	Partner attended	Link to more information	Outcome
					changing and what kind of business opportunities may open in the European market as a result.
2025-02-27	Karlsruhe, Germany	FZI Open House 2025	Michael Paulweber (AVL) Detlef Zerfowsky (ETAS) Alexander Viehl (FZI)	FZI Open House 2025 - FZI Forschungszentrum Informatik	Digital Vehicle SDV Initiative presented
2025-03-13	Nürnberg, Germany	Embedded World	Mario Driussi (VIF)	https://www.embedded-world.de/en	Embedded community informed about the FEDERATE project
2025-03-19	Gothenburg, Sweden	VECS	Detlef Zerfowski (ETAS)	Welcome - VECS	FEDERATE presentation from Tier perspective was given to the audience of one of the leading automotive events in the Nordics
2025-03-19	Comet Louise, Brussels	FAME 3rd Stakeholder Workshop	Carolin Zachäus (VDI/VDE)	FAME 3rd Stakeholder Workshop – Focus on projects and international collaboration - Connected Automated Driving	FAME stakeholders and participants were informed about SDVoF status including presentation of FEDERATE and its' achievements
2025-03-25	Berlin, Germany	VDA Summit Berlin	Dirk Walliser (ZF)	https://www.vda.de/en/news/events/mobility-innovation-summit-2025	Participants were informed about the status of FEDERATE, results and achievements
2025-03-26	St.Valentin, Austria	CCAM Austria Meeting	Michael Paulweber (AVL)	1. ccam Austria Meeting | 26.03.2025	Knowledge about Digital Vehcicle of the Future initiative spread
2025-04-25	Berlin, Germany	VDA Mobility Innovation Summit	Detlef Zerfowski (ETAS)	https://www.mobility-innovation-summit.com/de/programm-	Discussions with the community about how software is redefining the automobile and the key challenges in accelerating

Date	Location	Name of event	Partner attended	Link to more information	Outcome
				2025/tag-1/2-Software-defined-Vehicle-Wie-Software-das-Automobil-neu-definiert	SDV development. Detlef highlighted the fundamental shifts in automotive software.
2025-05-13	Starnberg, Germany	Automotive Open-Source Summit	Michael Paulweber (AVL)	https://www.automotive-oss.org/event/d8cae729-ea4c-4a9a-8bb4-a42ab995e055/summary	Participants were informed about the status of FEDERATE, results and achievements; Status summary of Digital vehicle initiative given
2025-05-15	Ispra, Italy	EUCAD Symposium 2025	Michael Paulweber (AVL) Gereon Meyer (VDIVDE) Sara Gallian (Eclipse)	Registration - Connected Automated Driving	Participants of the Symposium were informed about the status of FEDERATE, results and achievements
2025-05-15	Berlin, Germany	COVESA AMM 2025	Ole Großmann (VDI/VDE)	COVESA All Member Meeting | May 14-15, 2025 | Berlin, Germany	Participants were informed about the status of FEDERATE, results and achievements
2025-05-16	Grenoble, France	ADTC Conference	Benjamin Wilsch (VDI/VDE)	European Nanoelectronics Applications Design and Technology Conference - Welcome	Participants were informed about the status of FEDERATE, results and achievements
2025-05-22	Munich, Germany	Automotive SW Strategies	Mario Driussi (VIF)	https://www.sv-veranstaltungen.de/automotive/automotive-software-strategies/	Discussions with the SDV community were carried out about the current state of SDVoF / Digital Car Initiative
2025-05-28	Bruges, Belgium	16th AUTOSAR Open Conference	Peter Priller (AVL)	Past AUTOSAR Open Conferences	SDV community informed about current state of SDVoF/Digital Car Initiative
2025-06-03	Neuchâtel, Switzerland	EPoSS Annual Forum 2025	Peter Priller (AVL)	EPoSS Annual Forum 2025 |	EPOSS presentation performed together with

Date	Location	Name of event	Partner attended	Link to more information	Outcome
				EPoSS	HAL4SDV and other SDV projects, AVL (Peter Priller) has contributed the FEDERATE part
2025-07-01	Brussels, Belgium	ERTRAC Annual Conference 2025	Horst Pflügl (AVL); Christian Merkt (BMW)	ERTRAC Annual Conference 2025 - ERTRAC	SDV community informed about current state of SDVoF/Digital Car Initiative
2025-07-10	Berlin, Germany	Automotive Grade Linux All Member Meeting	Mario Driussi (VIF)	Automotive Grade Linux All Member Meeting Summer | LF Events	SDV community informed about current state of SDVoF/Digital Car Initiative
2025-09-02	Leipzig, Germany	ACOD Jahreskongress (Automotive Cluster Ost-Deutschland)	Detlef Zerfowski (ETAS)	ACOD Jahreskongress am 2. September 2025 im Porsche Experience Center Leipzig – ACOD Automotive Cluster Ostdeutschland	Better understanding of the SW transformation and new collaboration approaches in the industry provided. Visibility of the EU public funded projects increased.
2025-09-09	Munich, Germany	RISC-V @ IAA	Konstantin Konrad (INFINEON)	https://riscv.org/event/risc-v-iaa/	RISC-V Automotive roadmap and open-source approach for SDV vehicles discussed with key stakeholders in Europe.

Photos from events attended are shown in Annex A.

During its presence in these events, FEDERATE actively disseminated information on its current activities, future directions, and achievements to the European SDV community. The project engaged in discussions on technical topics such as software-hardware integration, open-source collaboration, connectivity and automation, urban mobility, and road safety, while also addressing emerging business models and opportunities in the European market. FEDERATE presentations - delivered independently, in collaboration with HAL4SDV, and alongside initiatives like the Digital Vehicle, SDVoF - highlighted the changing landscape of standards, the role of open source, and the fundamental shifts redefining automotive software. Audiences across diverse settings, from embedded systems communities and leading Nordic automotive events to FAME stakeholder workshops and EU-level events, were informed about FEDERATE's progress, results, and contributions. By doing so, FEDERATE not only increased awareness of its role within the broader Digital Vehicle initiative but also fostered a better understanding of software transformation in the automotive industry, encouraged cross-industry collaboration, and strengthened the visibility of EU-funded SDV projects

in Europe.

Specific stakeholder groups (sub-groups) were reached:

Research, Academia & Technical Experts

- **HiPEAC Conference – HiPEAC 2025** → Computer architecture, compilers, embedded systems researchers, PhD students, academics.
- **ADTC Conference (Automotive Data/Testing/Connectivity)** → Applied researchers, software engineers, validation & testing experts.
- **EPoSS Annual Forum 2025** → Smart systems researchers, micro/nanoelectronics community, EU-funded R&D project stakeholders.
- **Embedded World** → Embedded software engineers, system architects, developers, and hardware/software integration experts.
- **RISC-V @ IAA** → Chip designers, open hardware/software researchers, embedded computing community.

Automotive Industry & Technical Communities (OEMs, Tier-1/Tier-2, Suppliers)

- **EARPA Autumn Meeting 2024** → Automotive R&D providers, engineering services, EU project collaborators.
- **International Congress: SIA CESA** → Automotive engineers, R&D managers, electrical/electronic systems specialists (OEMs, Tier-1s).
- **Seminars/Webinars: Automotive Future of the European SDVs** → Engineers, technical leads, mobility startups, EU project community.
- **FZI Open House 2025** → Industry–academia interface; applied research orgs, mobility startups, automotive software engineers.
- **VECS (Vehicle Electronics & Connected Services, Sweden)** → OEMs, Tier-1s, tech suppliers, SDV & connectivity experts.
- **FAME 3rd Stakeholder Workshop** → EU research & innovation stakeholders, industrial R&D partners, policymakers.
- **Automotive Open-Source Summit** → Open-source developers, OEM/Tier-1 engineers, Linux Foundation ecosystem, SDV software innovators.
- **COVESA AMM 2025** → Automotive OEMs & suppliers, open-standards advocates, software-defined vehicle communities.
- **16th AUTOSAR Open Conference** → AUTOSAR consortium members, OEMs, Tier-1 suppliers, tool vendors, SDV software experts.
- **Automotive Grade Linux All Member Meeting** → OEMs, Tier-1s, Linux community developers, open-source mobility advocates.
- **ACOD Jahreskongress (Automotive Cluster Ost-Deutschland)** → German automotive suppliers, SMEs, cluster organizations.

Policy, Strategy & Mobility Innovation

- **ERTRAC Conference & ERTRAC Annual Conference 2025** → European transport policymakers, OEMs, EU project leaders, strategy-makers.
- **VDA Summit Berlin** → German automotive CEOs, strategy leads, policymakers, industry associations.
- **VDA Mobility Innovation Summit** → Automotive executives, mobility startups, investors, German policymakers.
- **CCAM Austria Meeting** → Cooperative, connected & automated mobility (CCAM) stakeholders, policymakers, researchers.
- **EUCAD Symposium 2025** → EU policymakers, research consortia, CCAM and SDV experts,

international stakeholders.

- **Automotive SW Strategies** → Software business strategists, CTOs, CIOs, senior management from OEMs and Tier-1s.

The following Table 4 is presenting a list of the events that are considered to be attended during the next project reporting period.

Table 4: List of external (networking, collaboration) events, M25-M36

Date	Location	Name of event	Link to more information	Short description
2025-10-02	Berlin, Germany and Porto, Portugal	Eclipse SDV Hackathon	Home - Eclipse SDV Hackathon Chapter Three	At its core, the Eclipse SDV Hackathon is all about: Experimenting with open source SDV tools and blueprints: put them to the test, break things, rebuild them better. Building cutting-edge, real-world features that can live on top of open-source automotive software projects. Exploring emerging technologies in a hands-on, high-energy environment. Learning from top-tier experts and growing your skills.
2025-10-08	Munich, Germany	Driving the Future (Symposium)	Driving the Future Symposium	Engaging with young talents in upcoming SDV research trends
2025-10-11	Barcelona, Spain	Gartner IT Symposium/Xpo™	Gartner IT Symposium/Xpo™ 2025 Conference in Barcelona, Spain	Business operations and customer experiences with AI, successful AI strategy, global AI regulations, and AI agents to enhance adaptability and innovation.
2025-10-16	Bonn, Germany	VDI ELIV	ELIV – International Congress for Automotive Electronics	The World's Largest Congress for Automotive Electronics, Software and Applications
2025-10-20	Mainz, Germany	OSGi Summit	OSGi Summit - OCX 2024	The OSGi Community Summit is an opportunity for users, integrators and implementors of OSGi technology to come together. Discussions will cover recent and upcoming

Date	Location	Name of event	Link to more information	Short description
				specification enhancements, novel and interesting uses of OSGi technology, and detailed journeys into the tools and libraries that can be used to realise your applications.
2025-11-18	Berlin, Germany	Automotive Cyber Security, Connectivity & SDV Week	Automotive Cyber Security, Connectivity & SDV Week	Automotive IQ welcomes vehicle manufacturers, suppliers, thought-leaders, technology companies, insurance providers and other stakeholders to Berlin, Germany in November 2025, with the objective of giving attendees the opportunity to share new ideas, challenge existing perspectives & take actionable intelligence.
2025-12-01	Berlin, Germany	SDV Europe 2025	Home | Software defined vehicles conference	SDV Europe is a unique event in the business and technology world. The Future of Automotive Software with over 300 industry leaders to explore the latest in software-centric architectures, AI-driven development, connected services, and cloud-based solutions. Discuss DevOps, embedded systems, agile development, and next-gen vehicle software shaping the future of mobility.
2026-04-21	Brussels, Belgium	Open Community Experience	Home - OCX 2026	OCX is building on a decade of tradition of connecting top technology thought leaders with the global open source community. Includes: talks on automotive, security, AI, embedded, and more, from leading open source technologists.

The table includes potential events which target software developers/ open-source community, automotive engineers/ embedded systems community, OEMs, Tier-1 suppliers, IT executives, automotive industry leaders, policy makers, mobility innovators, cybersecurity & connectivity specialists, R&D and technical experts in SDV.

Another type of events are those that are (co)organized by FEDERATE:

a. SDV conferences
b. Hackathons
c. Technical workshops (webinars and Tech Talks)

A. SDV Conference

The European SDV Ecosystem Summit 2025, held on May 20, 2025, at Infineon Technologies AG in Neubiberg, Munich, Germany, aimed to unite key stakeholders in the Software-Defined Vehicle (SDV) domain. FEDERATE partners organized the Summit as an annual SDV Conference uniting the European SDV community.

The Summit's primary *objectives* were to:

- present the latest developments and achievements of the SDVoF initiative
- facilitate discussions on the evolution from isolated components to a fully integrated SDV stack
- foster collaboration among industry leaders, researchers, and policymakers to shape the future of SDVs

This event was financed by FEDERATE and featured discussions and keynote presentations, providing valuable perspectives and networking opportunities. It covered a range of topics, including:

- latest updates on SDVoF Initiative: insights into ongoing projects and their impact on the SDV landscape
- global SDV initiatives: comparative analysis of SDV developments worldwide
- coordinated SDV structure approach: transitioning from standalone components to a cohesive SDV stack
- reference structure for future SDVs: defining the foundational elements of the SDV ecosystem
- software architecture: exploring the backbone of SDV functionalities

Speakers included representatives from FEDERATE, HAL4SDV, SOAFEE, COVESA, AUTOSAR, ECLIPSE SDV, CCAM, and 2ZERO, among others. The list of speakers is presented in Table 5:

Table 5: Speakers of FEDERATE SDV Summit 2025

No.	Topic	Title/Organization	Name of the speaker
1	Leading the Future of Automotive Innovation in Software-Defined Vehicles – Together	Senior Director Software, Partner & Ecosystem Management, Infineon Technologies AG	Thomas Schneid
2	Accelerate Work in Open-Source Ecosystems	Mercedes-Benz Tech Innovation GmbH	Markus Rettstatt
3	Collaboration Industry and Public Authorities in	DG-Connect, EC	Max Lemke

No.	Topic	Title/Organization	Name of the speaker
	Digital Vehicle		
4	Short Introduction and Status of FEDERATE & SDVoF Initiative	AVL List GmbH	Michael Paulweber
5	Scientific Board Presentation	Virtual Vehicle Research GmbH	Daniel Watzenig
6	RIGOLETTO Presentation	Infineon Technologies AG	Knut Hufeld
7	SDV out of the Box	Accenture	Christof Horn
8	From BB to SOP – Eclipse SDV WG Perspective	The Eclipse Foundation	Sara Gallian
9	Eclipse S-CORE	Bosch/ETAS	Detlef Zerfowski
10	Collaboration and contributions from COVESA	BMW, RemotiveLabs	Jan Kubowy, Emil Dautovic
11	CCAM Partnership and its links to the SDVoF Initiative	BMW Group	Christian Merkt
12	AUTOSAR in an OSS World	Continental	Michael Niklas-Höret
13	SOAFEE - accelerating automotive development	ARM	Bernhard Rill
14	SDV Project Session: HAL4SDV, CODE4SDV, Twin Loop	TTTech Computertechnik AG, Armengaud Innovate, Mosaic Factor	Andreas Eckel, Eric Armengaud, Stefano Persi
15	FEDERATE BB Repository & SDVoF vision – overview on BB repository	Virtual Vehicle Research GmbH	Mario Driussi

The FEDERATE partners responsible for organizing the FEDERATE SDV Summit 2025 dedicated significant effort to securing speakers from key organizations, ensuring informative and productive discussions among FEDERATE stakeholders. The event served as a platform to bring together a diverse range of participants, including major players in the automotive industry driving SDV development (OEMs and Tier-1 suppliers),

software developers and engineers working on SDV software architecture, and industry associations such as AUTOSAR, COVESA, SOAFEE and others, which play a crucial role in SDV standardization and collaboration. In addition, the Summit aimed to engage policymakers and regulatory bodies responsible for shaping the legal and regulatory frameworks for SDVs, as well as researchers and academic institutions contributing to SDV-related research and innovation.

The Summit was moderated by Jack Parrock, selected for his expertise and deep understanding of the event's themes and topics. The event was also photographed by the professional photographer Antonia Richter, who specializes in photography of business and official events. The organization of the event spanned nearly six months, beginning in December 2024 with the development of the first SDV Summit Planning document and culminating in May 2025. During this period, partners including AVL, VDI/VDE, METIS, INFINEON, and others collaborated to build the event agenda, promote the Summit through social media, websites, and direct communication to FEDERATE subscribers, leverage channels from other SDV projects and initiatives, and manage logistical arrangements such as catering and registration.

The Summit proved highly successful and had several notable impacts:

- ✓ Enhanced collaboration: facilitated partnerships and strengthened cooperation among diverse stakeholders in the SDV ecosystem
- ✓ Knowledge sharing: provided a platform for disseminating the latest research, developments, and best practices in SDV
- ✓ Policy influence: engaged key policymakers who shared insights on the current state and future directions of SDV initiatives
- ✓ Strategic alignment: aligned industry efforts toward a cohesive vision for the future of SDVs in Europe

A selection of some visuals is also presented below, highlighting the dissemination efforts that helped make the Summit both visible and attractive to participants.

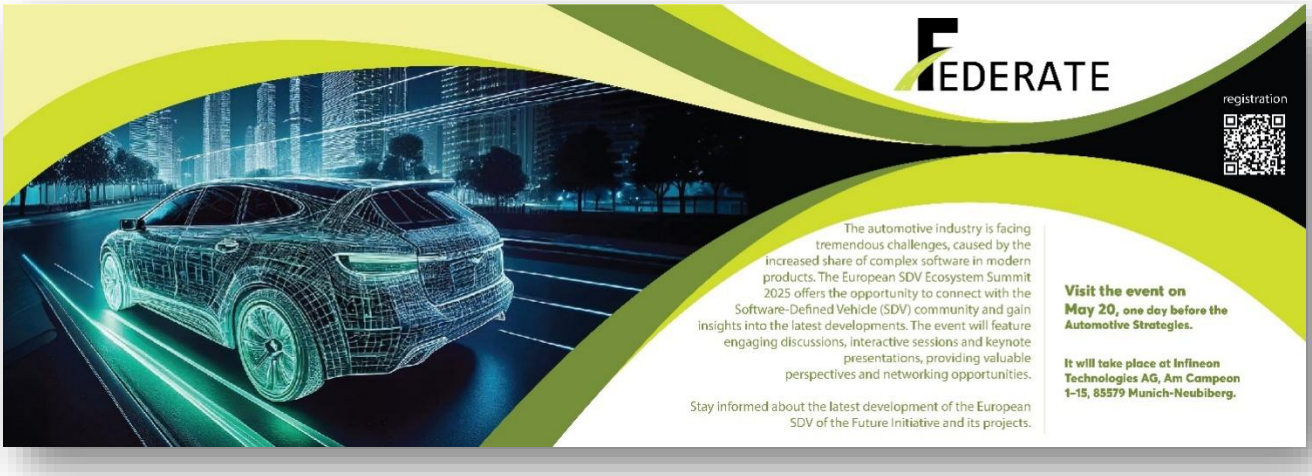
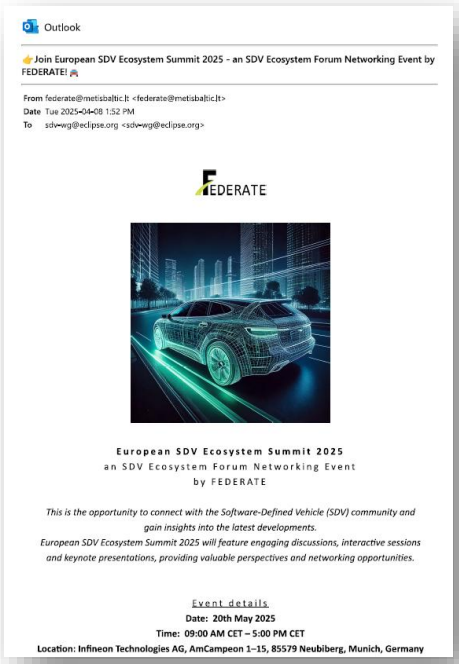


Figure 3: Promotional event banner

The event banner was created and shared via social media, also uploaded on the FEDERATE website, and shared by the project partners through their channels.

"Save the date" and an invitation email to register for the event was sent to (a) FEDERATE subscribers (307);

(b) a special list provided by AVL (25); (c) the List of Eclipse SD WG (700).



Outlook

Join European SDV Ecosystem Summit 2025 - an SDV Ecosystem Forum Networking Event by FEDERATE!

From federate@metisbaltic.lt <federate@metisbaltic.lt>
Date Tue 2025-04-08 1:52 PM
To sdv-wg@eclipse.org <sdv-wg@eclipse.org>

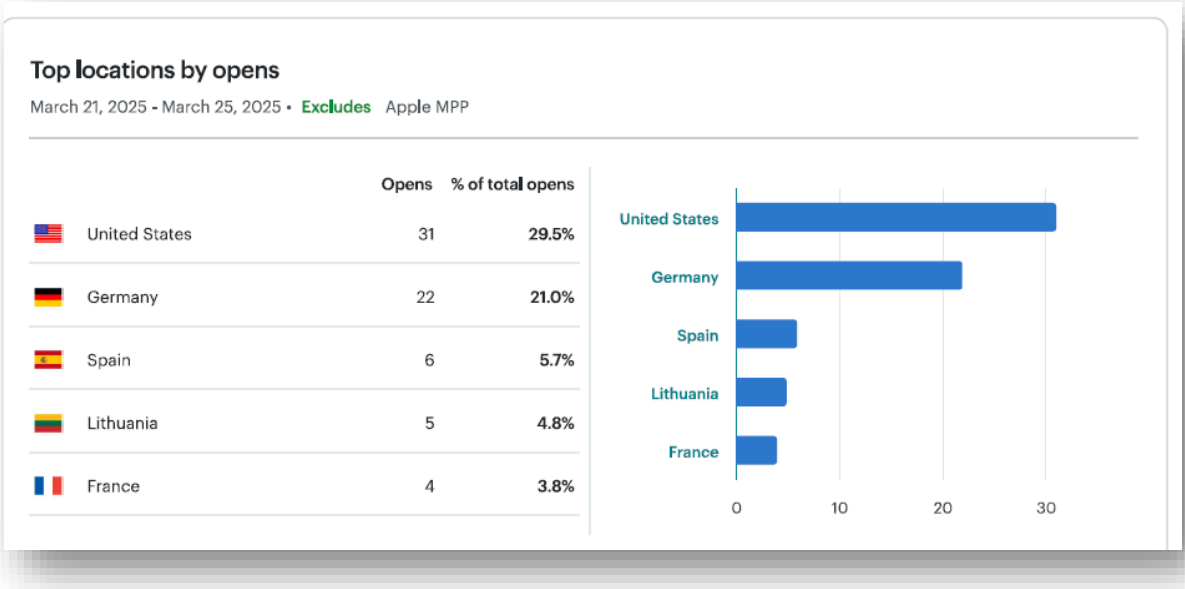
FEDERATE

European SDV Ecosystem Summit 2025
an SDV Ecosystem Forum Networking Event
by FEDERATE

This is the opportunity to connect with the Software-Defined Vehicle (SDV) community and gain insights into the latest developments.
European SDV Ecosystem Summit 2025 will feature engaging discussions, interactive sessions and keynote presentations, providing valuable perspectives and networking opportunities.

Event details
Date: 20th May 2025
Time: 09:00 AM CET – 5:00 PM CET
Location: Infineon Technologies AG, AmCampeon 1–15, 85579 Neubiberg, Munich, Germany

Figure 4: Invitation to the event via email



Top locations by opens

March 21, 2025 - March 25, 2025 • Excludes Apple MPP

	Opens	% of total opens
United States	31	29.5%
Germany	22	21.0%
Spain	6	5.7%
Lithuania	5	4.8%
France	4	3.8%

Figure 5: Top locations by opening the invitation email

The registration form was created by METIS and placed on the FEDERATE website[1]. The registration was running until 11th May, with a total of 129 attendees registered.

METIS took care of the name tags and other merchandise needed for the event (described in Section 4.7) as well as for contracting the caterer, event moderator, and photographer. Three service agreements were concluded by METIS with three service providers to ensure the most professional services during the event.

The main room for the event was provided by Infineon Technologies AG.

Figure 6: Main room of the event hosting around 100 participants

As a result, 103 participants attended the event with no-show rate of 20,15% which was lower in comparison to the no show rate in 2024 for the FEDERATE Networking Event (38,83%).

A detailed FEDERATE SDV Summit report, including photos from the event, is available in Annex B.

Another annual SDV conference, organized by ECLIPSE and supported by FEDERATE - OCX24[2], took place in Mainz, Germany on 22-24 October 2024. FEDERATE partners, such as AVL, ETAS, CONTINENTAL and others, participated in the co-located event of the OCX24 (OC for Automotive) and represented FEDERATE in different formats.

FEDERATE partners (representatives from AVL List GmbH and VDI-VDE) also joined the programme committee of the OCX24 as they met the requirements for expertise in the technologies and topics that made up the programme. The main task of being a member of the OCX24 programme committee was to choose topics for

[1] https://federate-sdv.eu/event/european-sdv-ecosystem-summit-2025/

[2] **OCX 2024** is annual open-source *developer* conference hosted by Eclipse Foundation. It is a place for diverse open source communities to come together to learn, share and network (source: https://www.ocxconf.org/event/778b82cc-6834-48a4-a58e-f883c5a7b8c9/summary).

the programme, read submissions as they came in, choose early-bird talks and choose program.

The OCX conference is a flagship event of the Open-Source community worldwide. Organized by the Eclipse Foundation, it has outgrown its previous location in Ludwigsburg and moved in 2024 for the first time to Mainz. The new event location "Halle 45", a historic industrial compound for railway vehicles, provided the perfect place for gatherings of the whole community, as well as parallel sessions in several workstreams.

Sara Gallian from Eclipse Foundation and her team organized the "OC for Automotive" stream, with 3 days packed full of information and collaboration. The sheer number of presentations, great attendance and lively discussions clearly indicate that SDV has the attention of the Open-Source community.

Interesting talks held by representatives of major OEM's, Tiers and tool providers clearly indicated strong interest of industry. Multiple presentations by FEDERATE partners demonstrated the commitment, addressing challenges and exploring potential solutions to redefine the future of mobility.

Michael Paulweber (AVL) moderated the panel discussion "*Road to Open Source for a European SDV SW Stack*" with Rolf Riemenschneider from EC's DG Connect and industry representatives, discussing the role of Europe in a more and more multi-polar world. Another panel moderated by Detlef Zerfowsky from ETAS addressed an outlook towards certification and homologation with "*Open Source Facing European Regulation: What's the plan?*". The automotive lightening talk by Michael Niklas-Höret from Continental and AUTOSAR presented ideas and a new approach which allows the integration of Open Source with existing and upcoming AUTOSAR software stacks.

The first large R&D project of the European SDV Initiative which started in mid-2024 was presented: "HAL4SDV - Hardware Abstraction Layer for a European Software Defined Vehicle approach" by Edin Arnautovic from TTTech. First implementations of software building blocks in the lower layers of the SDV stack were expected to arrive soon.

Several talks addressed strategic topics: *how can open source accelerate innovation in automotive industry*? *How can fast innovation come together with high quality, safety and security concerns*? Dana Vade from Eclipse SDV presented steps towards QA in Eclipse projects.

In "*Ready to update? When is it safe to update 100k+ cars?*", Peter Priller from AVL presented concepts for automated verification and validation fully integrated in toolchains. This was complemented by Hannes Fuchs from AVL in "*Test automation using SDV Toolchain and Eclipse Symphony in Automotive CI/CD toolchains*").

The list of SDV building blocks implemented in Eclipse SDV projects is growing. For example, FEDERATE partner - BOSCH - represented by Dirk Slama presented a digital playground for SDV provided by the Digital Auto project. In "uProto-what?" Daniel Krippner from ETAS presented a good example of OS software already in productive use in serial vehicles.

The event was also complemented by an exhibition area with projects and initiatives. FEDERATE's booth staffed by Benjamin Lang attracted interest of developers and Open-source enthusiasts alike, providing lots of opportunities to grow the SDVoF community.

An invitation for the FEDERATE subscribers was sent to join OCX24 – almost 290 people have received it by email. The following photos show the FEDERATE booth at the OCX24 and major moments from this important event.

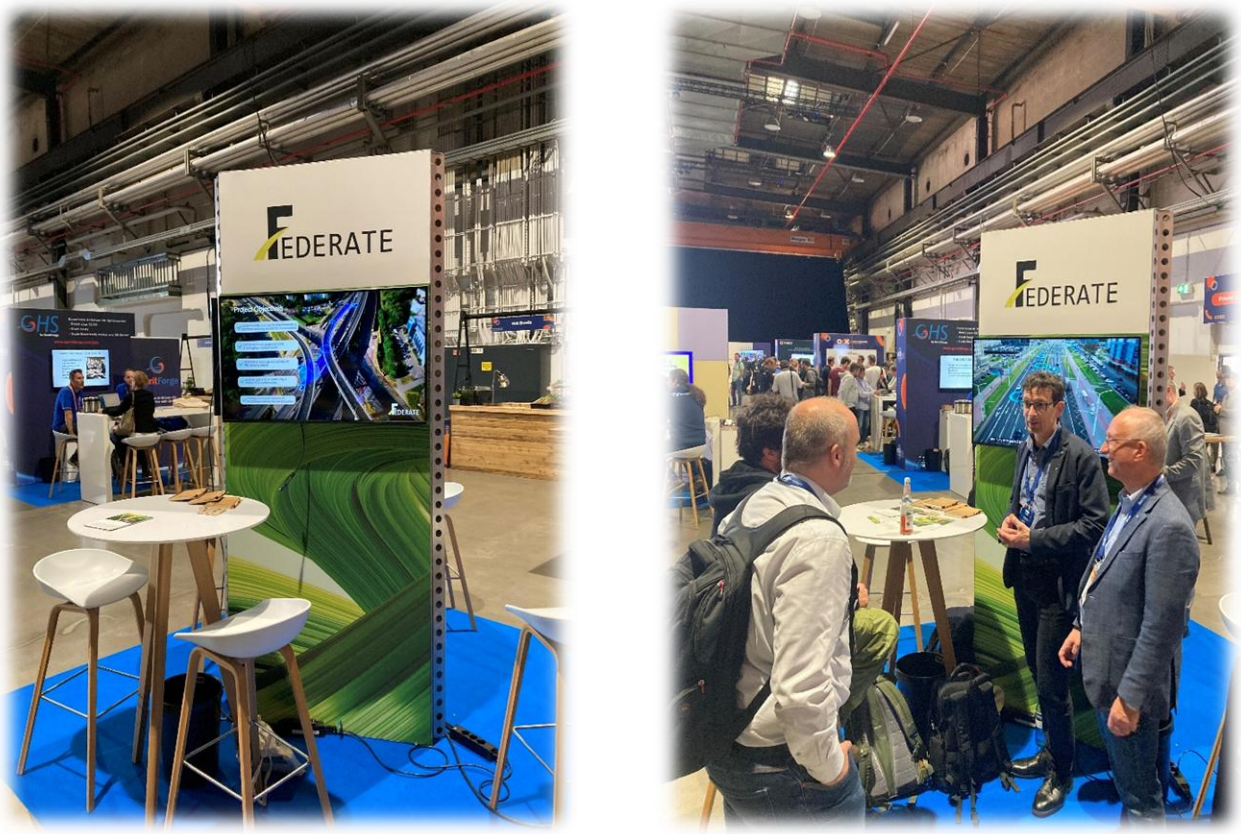


Figure 7: FEDERATE booth at OCX24

Figure 8: FEDERATE partners at OCX24

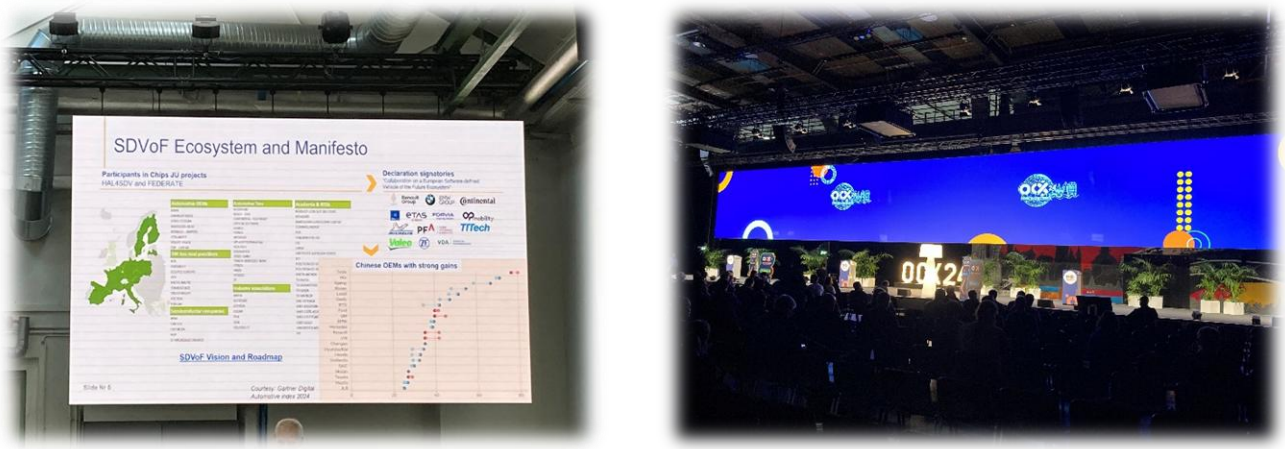


Figure 9: OCX24, Mainz, Germany on 22-24 October 2024

B. Hackathon

Between November 20th – 22nd, 2024, 60 participants gathered at ICF Karlsruhe, Germany, to build innovative features using open-source Software-Defined Vehicle (SDV) projects. The event brought together 13 teams, supported by 12 hack coaches and 2 hack MCs, who guided the participants throughout the hackathon. A total of six challenges, based on more than 15 open-source projects, provided the foundation for brainstorming, prototyping, and collaborative problem-solving.

In November 2024, the Eclipse SDV Hackathon[3] showcased the transformative potential of Eclipse SDV technologies while highlighting the value of teamwork, cross-disciplinary expertise, and collaboration. Over the course of three days, participants focused on addressing pressing real-world challenges in areas such as fleet management, software orchestration, and vehicle safety. **Aligned with the mission of the FEDERATE project, the event embodied the vision of an open and dynamic European SDV ecosystem, one that thrives on shared knowledge and community-driven innovation.**

A key outcome of the hackathon was the reinforcement of collaboration across multiple open-source projects, including the Eclipse SDV Working Group's Blueprints, Eclipse Kuksa, and Eclipse uProtocol. These initiatives played a central role in enabling participants from diverse organizations to work seamlessly together, breaking down technological silos and advancing a shared roadmap for innovation. The event illustrated how effective leadership, and structured collaboration can accelerate precompetitive innovation, ultimately positioning Europe as a frontrunner in the global Software-Defined Vehicle (SDV) movement.

The hackathon also created invaluable networking opportunities for participants, connecting senior developers, automotive software engineers, architects, and industry leaders. By fostering engagement between professionals across the automotive and open-source software industries, the event strengthened ties within the community while encouraging new members and organizations to join. This reflects one of the supporting goals of the initiative: to establish the Eclipse SDV Working Group as the code-first open-source space for collaboration among automotive developers and engineers.

[3] https://blogs.eclipse.org/post/dana-vede/ready-hack-future-join-eclipse-sdv-hackathon-chapter-2-%E2%80%93-register-now

The target audience for the event included both existing and prospective community members, as well as future adopters and contributors. For the existing community, the hackathon provided opportunities to collaborate, test code, and improve ongoing projects. The prospective community gained first-hand experience with Eclipse SDV technologies, while those in the probing phase discovered the value of participating in open-source SDV development. At the same time, adopters were introduced to potential solutions they could integrate into their projects, and new contributors were attracted to strengthen the ecosystem with fresh perspectives and expertise.

Participants benefited from networking with senior developers, engineers, architects, business leaders, and IT project managers from across the automotive industry. They had the chance to learn from product owners at leading global automotive manufacturers and suppliers, gaining exposure to real-world use cases and future challenges. The hackathon also offered hands-on experience with cutting-edge automotive software developed in the open-source space, while enabling participants to sharpen both their coding and presentation skills. Guided by leading professionals, engineers, and experts in the field, attendees received valuable mentorship and consultancy throughout the event. Beyond the technical and professional aspects, the hackathon fostered an engaging and fun environment, complete with team-building activities and the opportunity to win prizes.

Event preparation played an essential role in ensuring that participants and jury members were fully ready for the hackathon. Registered participants received six video training sessions, including two focused on pitching, presentation skills, and slide preparation, two on the technologies and prerequisites relevant to the challenges, and two covering logistics such as team formation, registration, evaluation criteria, GDPR, Code of Conduct, and the overall event schedule. Jury members also received two tailored video training sessions to prepare them for their roles in evaluation and decision-making. To optimize efficiency, each challenge included a pre-packaged deployment setup, available for download from the challenges repository, allowing participants to bypass lengthy installations and dedicate more time to tackling the challenges themselves.

From a FEDERATE project perspective, the hackathon contributed directly to the objectives of T5.4, which is led by Eclipse and is responsible for collecting and disseminating valuable insights from such events. The primary goals centered on raising awareness of EU automotive projects and encouraging their adoption, while also supporting cross-project collaboration and potential uptake of open-source technologies across organizations. Tangible results included the development of hack challenge solutions that not only serve as integration project concepts but are also backed by essential documentation, ensuring their long-term usability. These outcomes underscore the hackathon's role as a catalyst for innovation, collaboration, and sustained progress in the European automotive software ecosystem.

The event was conducted over 2.5 days (30 hours), striking the right balance between intensive development and meaningful interaction, ensuring that participants could deliver tangible results while also enjoying the collaborative experience. The targeted stakeholders were automotive software senior developers and top engineers, experts in the automotive and open-source software industries.

The following photos illustrate moments of the event.

Figure 10: SDV Hackathon 2024 – Nov 20-22, Karlsruhe, Germany

C. Technical workshops (webinars and tech talks)

During the second reporting period, FEDERATE successfully organized a series of webinars and tech talks designed to inform, engage, and connect with key stakeholder groups in the SDV ecosystem. These activities played a crucial role in disseminating project results, sharing insights on emerging technologies, and fostering the dialogue with industry experts, researchers, and practitioners. The webinars introduced the SDVoF initiative and its roadmap, while also providing a practical walkthrough of the GitHub Building Block Repository, thereby directly addressing the needs of stakeholders in software development, semiconductors, E/E architecture, and systems engineering. Complementing these, the tech talks offered deep dives into specialized topics, including the role of the Xen Hypervisor in creating safe and efficient virtualization environments and the potential of Automotive Grade Linux in SDV applications.

There were 3 webinars and 2 Tech Talks organized during the second reporting period in total. They are listed in Table 6 below:

Table 6: List of webinars and Tech Talks organized M13-M24

No.	Webinar/Tech Talk	Organizer(s)	Topics	Details
1	**1st FEDERATE webinar on 4th Nov 2025** - "European driven Software Defined	WP1; WP5	Introduction of SDVoF; FEDERATE results of the	The webinar was led by Benjamin Wilsch (VDI/VDE) and the main speaker was Michael Paulweber

No.	Webinar/Tech Talk	Organizer(s)	Topics	Details
	Vehicle of the Future (SDVoF) Initiative"[4]		first project year	(AVL). The duration of the webinar was around 30 min. Number of registered participants: 41, 32 live participants (fields of expertise: software, semiconductor, product/project management, other).
2	**2nd FEDERATE webinar on 27th Feb 2025** – "Vision & Roadmap of the Software Defined Vehicle of the Future Initiative"[5]	WP1; WP5	Introduction of Vision & Roadmap of the Software-Defined Vehicle of the Future Initiative.	The webinar was led by Benjamin Wilsch (VDI/VDE) and the main speaker was Peter Priller (AVL). The duration of the webinar was around 30 min. Number of live participants: 48 (fields of expertise: software development, product/project management, academia/research, coordination/consulting, E/E Architecture, System engineering, semiconductor, other).
3	**3rd FEDERATE webinar on 23rd June 2025** – "Navigating the GitHub Building Block Repository" [6]	WP2	FEDERATE GitHub BB Repository (target groups of the repo, tasks, structure and collaboration, how to contribute)	The full webinar was led by Mario Driussi (VIF) who presented FEDERATE GitHub BB Repository. The duration of the webinar was around 30 min. Number of views on YouTube: 64 as it was not a live webinar. It was a recorded tutorial.
4	**1st FEDERATE Tech Talk on 19th Feb 2025** – "SDVoF Tach Talk, XEN Hypervisor for Automotive, Real Time and Safety!"[7]	WP2	Role of hardware virtualization in enabling SDV; application for the Xen Hypervisor in creating efficient and safe virtualization environments for automotive systems.	Tech Talk moderated by Mario Driussi (VIF), special guest / speaker – Stefano Stabellini (AMD). Duration – around 1 hour. No. of live participants (no registration was needed, open event): 107.
5	**2nd FEDERATE Tech Talk on 4th June 2025** – "Automotive Grade Linux and its Building Blocks" [8]	WP2	Automotive Linux and their BBs: what is Automotive Grade Linux, what can you do with AGL Unified Code Base,	Tech Talk moderated by Mario Driussi (VIF), special guest / speaker – Walt Miner (Linux Foundation). Duration – around 1 hour. No. of

[4] https://www.youtube.com/watch?v=JvWTIckqBlM

[5] https://www.youtube.com/watch?v=5wyYHhl0_fE

[6] https://www.youtube.com/watch?v=HqlGULTr9yU

[7] https://www.youtube.com/watch?v=VOcZlLbkiVM

[8] https://www.youtube.com/watch?v=zNxTdlPWT1w

No.	Webinar/Tech Talk	Organizer(s)	Topics	Details
			what is AGL working in the SDV domain, etc.	participants (no registration was needed, open event): 80

The 4th FEDERATE webinar (S-CORE presentation) was scheduled for September 11th, 2025. It presented how the S-CORE project integrates high-performance Electronic Control Units (ECUs) in an open-source core stack for SDV. The link to join the webinar was established[9] and the announcement for the social media and website was done.

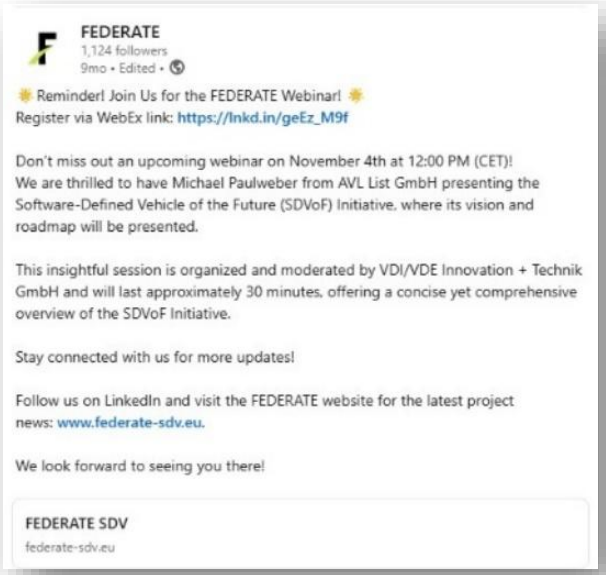
By tailoring each session to specific technical communities and expertise areas, FEDERATE ensured strong outreach and knowledge transfer, strengthening stakeholder engagement and building momentum for collaborative innovation across the SDV landscape.

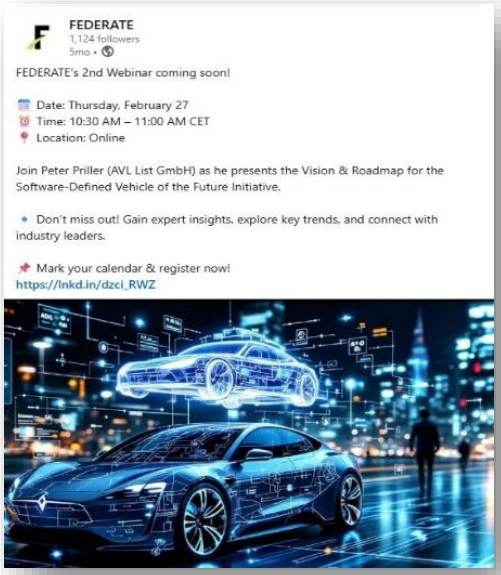
METIS took care of an active dissemination of these events through multiple channels to ensure broad visibility and engagement. Announcements were regularly shared on LinkedIn (see Figure 11 and Figure 12), reaching both the project's network and a wider professional audience. In addition, direct invitations were sent by email to FEDERATE subscribers (around 300 in total), ensuring that stakeholders and interested parties were personally informed and encouraged to join. News and updates about upcoming webinars and tech talks were also included in the project's newsletters, providing a recurring reminder to the community.

Furthermore, detailed information and registration links were made available on the FEDERATE website, serving as a central hub for all event-related content[10]. This multi-channel approach ensured that the events were widely promoted and accessible, maximizing participation and fostering knowledge exchange within and beyond the project's immediate network.

[9] https://vdivdeit.webex.com/weblink/register/r9a351485aaba8d455719a8b3053e2c47

[10] https://federate-sdv.eu/sdv-events/





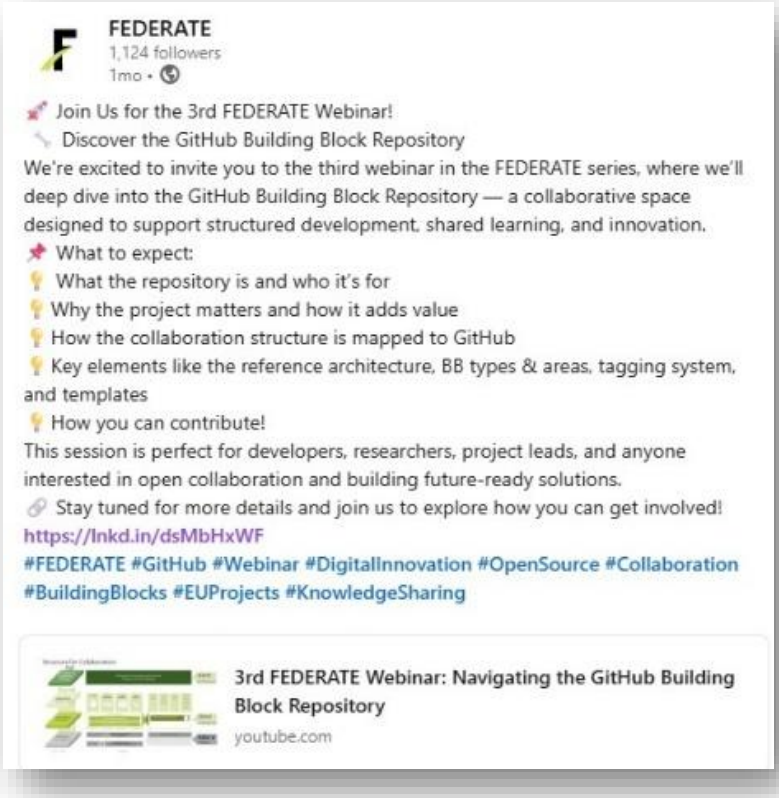


Figure 11: Posts on LinkedIn promoting FEDERATE webinars

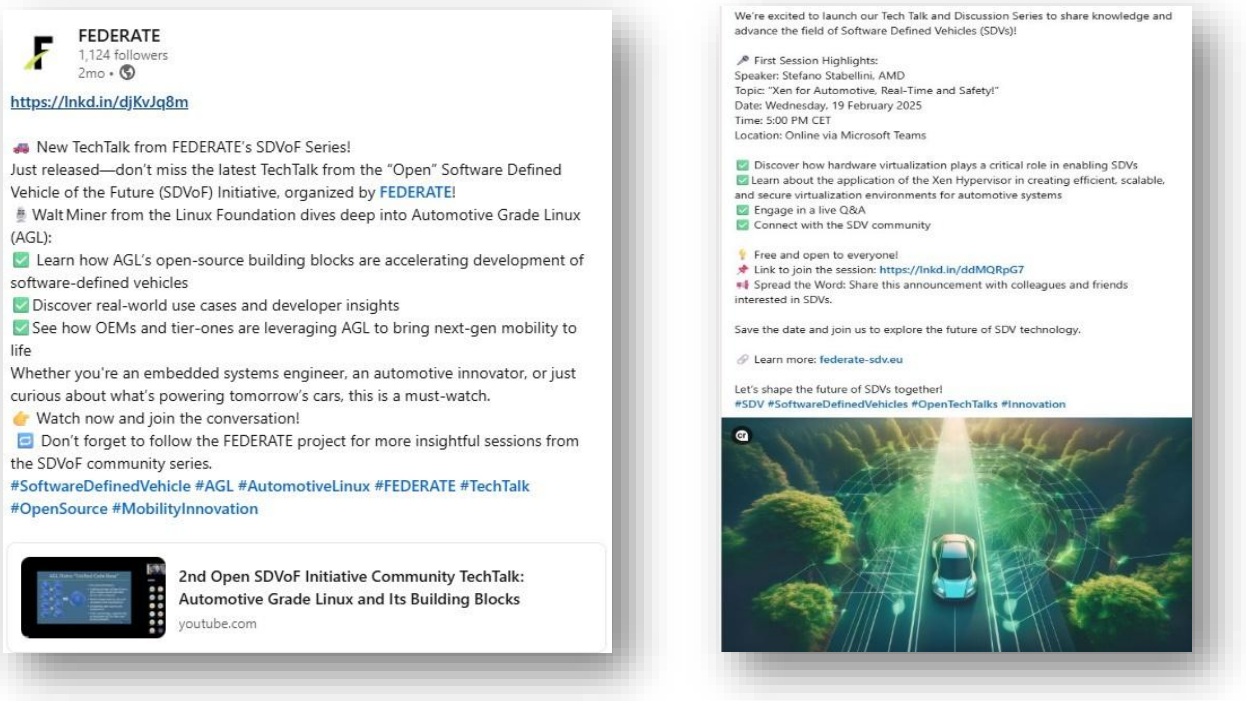


Figure 12: Posts on LinkedIn promoting FEDERATE Tech Talks

3.2.2 Project Deliverables and Reports

Project deliverables and reports represent an important dissemination activity within the FEDERATE project, as they share publicly valuable and relevant information derived from the project's research and findings.

In the second reporting period, several key project documents were published and made available through the project website once they were approved by the EC, ensuring open access to the project results.

Table 7: List of project deliverables and reports disseminated M13-M24

Name of the document	Short description	Submission date of the document	Link to open repository
D5.5 - 1st Dissemination and Communication Activities Report M12	D5.5 is the document reflecting how the strategies, approach and tools set in D5.3 worked in practice during twelve months of the project implementation period, what concerns the execution of dissemination and communication actions. It is a first dissemination and communication activities report.	M12	https://federate-sdv.eu/2024/10/10/first-dissemination-and-communication-activities-report-m12/
D5.1 – Stakeholder Engagement Strategy	Deliverable 5.1 aims to analyse the SDVoF ecosystem and to identify key stakeholders acting as multipliers and connectors in the wider SDV community. The document is the basis	M12	https://federate-sdv.eu/2024/10/10/stakeholder-engagement-strategy/

Name of the document	Short description	Submission date of the document	Link to open repository
	for the stakeholder engagement to grow, strengthen and activate a vibrant SDV community. Building up on the stakeholder map presented in this document, a respective stakeholder engagement strategy will be developed.		
D5.9 – First Year Data Management Report	This deliverable is part of the FEDERATE project that started on 1 October 2023 and ends on 30 September 2026. This deliverable refers to the deliverable D5.8 Data Management Plan, where the goals of data collection and processing are described.	M12	https://federate-sdv.eu/2024/10/10/first-year-data-management-report/
D4.4 – Strategic Roadmap – 1st Version	The European Directorate-General for Communications Networks, Content, and Technology initiated a consultation process in late 2022, leading to the establishment of the "Software Defined Vehicle of the Future (SDVoF) initiative". While establishing this initiative the FEDERATE team prepared a vision and roadmap document. This deliverable document aims to outline a strategic roadmap to achieve the SDV Ecosystem vision. It identifies which combination of publicly funded cooperative projects as well as consortia and foundation will help to master this challenge.	M13	https://federate-sdv.eu/2024/09/30/d4-4-strategic-roadmap-first-version/
D4.1 – Initial recommendations for Building Block Realization	The purpose of this document is to recommend which of the suggested building blocks are developed were. This is the final step of the Selection Process of building blocks. The first step is done in the work package 2 where the demands and potential Building Blocks are found. In work package 3 these are selected and refined and in this document from work package 4 these refined Building Blocks are assigned to new or existing projects and funding schemes. All of this happens in communication with the respective projects in case of the projects already existing.	M13	https://federate-sdv.eu/2024/09/30/d4-1-initial-recommendations-for-building-block-realization/
D3.1 – First prioritized backlog report	The purpose of this report document is to provide an account of the contributions generated by of WP2 and	M13	https://federate-sdv.eu/2024/09/30/d3-1-first-prioritized-backlog-report/

Name of the document	Short description	Submission date of the document	Link to open repository
	WP3 within the scope of the FEDERATE project. It aims to outline the key contributions, methodologies, and outcomes, particularly focusing on the creation and organization of the SDV software building blocks repository. By providing a comprehensive overview of these activities, the report ensures transparency, facilitates knowledge sharing among project stakeholders, and supports ongoing and future work within the FEDERATE project by offering a clear reference point for the project's progress and achievements thus far. This document describes methodology and first results for the prioritized backlog. Main focus is on how building blocks (BB) are described and prioritized. It is strongly connected with D3.4 (First orchestrated backlog report).		
D3.4 – First orchestrated backlog report	A primary deliverable of the project was the creation of a comprehensive GitHub repository, which houses an elaborate folder structure as organizing principle for SDV software building blocks. GitHub was determined to be the most suitable option due to its superior user management capabilities compared to GitLab. This document describes methodology and first results for the orchestration of blocks (BB) from the prioritized backlog, described in D3.1 (Prioritized backlog report). It includes links to existing implementations or projects, where available, or provides initial suggestions about potential hosting initiatives or projects.	M13	https://federate-sdv.eu/2024/09/30/d3-4-first-orchestrated-backlog-report/
D2.5 – Glossary (incl. layer structure)	The main objective of this deliverable, which will be updated and supplemented on a yearly basis, is to create and provide a glossary which contains basic recurring terms and their description for building blocks (BBs) related to the SDV (Software Defined Vehicle) in terms of structure, localisation, architecture, classification and grouping. A special tagging concept for the precise definition and description of building blocks, their	M13	https://federate-sdv.eu/2024/09/30/d2-5-glossary-incl-layer-structure/

Name of the document	Short description	Submission date of the document	Link to open repository
	location and life cycle has been introduced.		
2.4 – Vision Document	This deliverable D2.4 "Vision Document" is based on the "Vision and Roadmap" released by the FEDERATE consortium and the SDV Sherpa Governance Group on April 14th, 2024 and published on the FEDERATE Website: https://federate-sdv.eu/2024/04/12/european-software-defined-vehicle-of-the-future-sdvof-initiative-vision-and-roadmap/.	M13	https://federate-sdv.eu/2024/09/30/d2-4-vision-document/
D2.1 – First Report of high level requirement list	This deliverable reports on the FEDERATE WP2 High-level Requirements solicitation. The requirements, that a successful transformation from ECU-centred vehicle architectures to software-defined vehicles places on the vehicle industry, are extensive and varied. These relate to a wide variety of building blocks. This applies to processes as well as tools, infrastructure or the software components that are combined into software stacks in the vehicle and its environment in the same way. This is the first of an annual deliverable series, based on the collected high level requirements in WP2.	M13	https://federate-sdv.eu/2024/09/30/d2-1-first-report-of-high-level-requirement-list/
D2.6 – First Technology Forecast Report	In this Gap Analysis and Technology Forecast Report, we highlight the academic and industrial perspectives on the key building blocks required to be completed to define, implement, and evaluate the software-defined vehicle concept in practice. We focus primarily on areas where significant gaps can be found. First, we discuss proposed SDV architectures and their challenges in terms of interoperability and paradigm shift from monoliths to microservices. Second, we analyse vehicles as a part of a broader continuum with other vehicles, roadside infrastructure, and edge-cloud computing capabilities, as future API developments will also require changes in the supporting systems and resources. Thirdly, we	M13	https://federate-sdv.eu/2024/09/01/d2-6-first-technology-forecast-report/

Name of the document	Short description	Submission date of the document	Link to open repository
	address validation and verification as an integral part of the SDV development pipeline, as vehicular software will be compatible with real-world complexities.		

When a project publishes its outcomes publicly - making deliverables, reports, materials, and communications easily accessible via its website - it achieves broad transparency and enhanced visibility, effectively reaching diverse stakeholder groups (especially the public). This open access strategy fosters trust, encourages knowledge exchange, accelerates implementation and uptake of findings, and supports community building around the project's themes. In particular, for the FEDERATE project, having dissemination reports (like the first-year data management report, strategic roadmap, backlog report, stakeholder engagement strategy, etc.) and related materials (presentations, press releases, visuals, videos) consolidated and easily navigable in one place dramatically amplifies the impact of its results and strengthens the collaborative Software-defined Vehicle Ecosystem across Europe.

4 Communication Activities (M13-M24)

4.1 Approach

During the first reporting period, FEDERATE launched a dedicated project website and social media channels to engage stakeholders and promote its activities. A wide range of communication tools was developed, including press releases, newsletters, social media posts, and audio-visual materials such as videos.

During the second reporting period, stakeholder outreach was strengthened by actively promoting FEDERATE SDV events on social media, through the websites of various EU-funded partnerships, initiatives, projects, and SDV communities. All communication leveraged FEDERATE's visual identity and materials. In addition, FEDERATE organized webinars and workshops, with direct invitations sent to the SDV community to encourage participation.

The communication strategy used during M13-M24 satisfied Phase 2, as illustrated in Table 8 below:

Table 8: 2nd Communication phase (M13-M24)

Time	Objective	Approach
Phase 2: early strategic phase (M13-M24)	Create more targeted awareness regarding the produced results targeting identified target groups.	Adapt promotion material, inform stakeholders about project results by dissemination of deliverables, reports, etc., initiate new collaborations and start disseminating results at various relevant events, like annual SDV conferences, workshops, hackathons.

The aim of the early strategic phase for the communication was to shift from the general project visibility to more focused dissemination, ensuring that concrete project results reach the right stakeholder groups, foster

engagement, and open opportunities for collaboration.

The early strategic communication phase (M13–M24) focused on moving beyond initial visibility and awareness to a more targeted and impact-driven approach. Its primary aim is to ensure that the results and outputs of the FEDERATE project reach the stakeholders who can benefit from them the most. During this phase, communication was tailored to specific target groups, using adapted materials and channels to highlight deliverables, reports, and other key findings. At the same time, the project actively engaged with the SDV ecosystem by presenting results at relevant events such as conferences and webinars. This phase also emphasized the initialisation of new collaborations and fostering relationships that can enhance the adoption, exploitation, and broader impact of FEDERATE's results.

The use of the communication means is described in more detail in the following sub-sections.

Concerning the upcoming project reporting period (M25-M36), it is foreseen that after the successful 2nd communication phase, FEDERATE will enter the 3rd communication phase, as described in Table 9 below:

Table 9: 3rd Communication phase (M25-M36)

Time	Objective	Approach
Phase 3: main strategic phase (M25-M36)	To maximize the impact and uptake of FEDERATE's results, ensuring wide dissemination, stakeholder engagement, and long-term sustainability	Approach and engage selected target groups in a more individualized and targeted manner (e.g. more specified material produced), sharing final deliverables, showcase results at major SDV conferences, hackathons, EU-level events. Highlight opportunities for adoption of the project's results, engage with potential partners for follow-up projects. Provide guidance for the stakeholders, document lessons learnt and best practices to inform future initiatives in the SDV domain.

4.2 Project Website

The main objective of the website is to serve as a vehicle for the dissemination of the project activities and results, share information about SDV conferences, and serve as a tool to join the open software–defined vehicle of the future forum. Furthermore, it encourages visitors to subscribe to FEDERATE Newsletters & Invitations to events, offers to explore project news, get introduced to other SDV-related projects and relevant strategic documents, register for SDV events, access project deliverables and reports, find photos from various events, videos, and other dissemination material. It also contains a direct link to the project GitHub repository.

Concerning the website analytics for the period M13-M24, the number of users, countries, and channels through which the FEDERATE website is accessed were tracked.

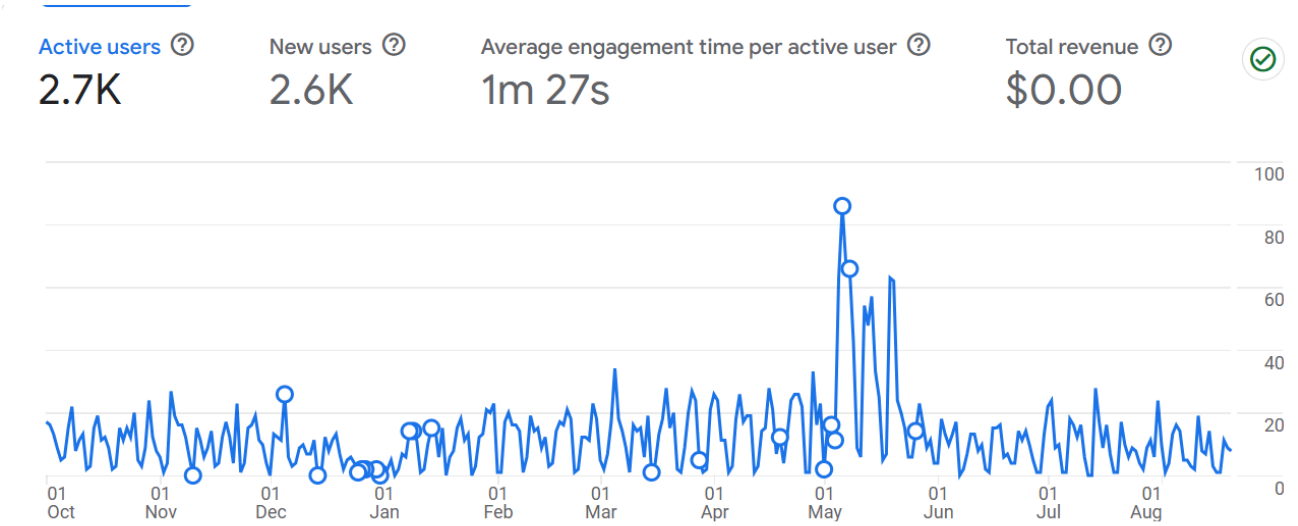


Figure 13: Total number of FEDERATE website active users for 12 months

The FEDERATE website has experienced positive growth in user engagement, with the number of active users increasing by 1,000 over the past 12 months compared to the previous reporting period.

The following Figure 14 shows top countries of the FEDERATE website visitors during the reporting period:

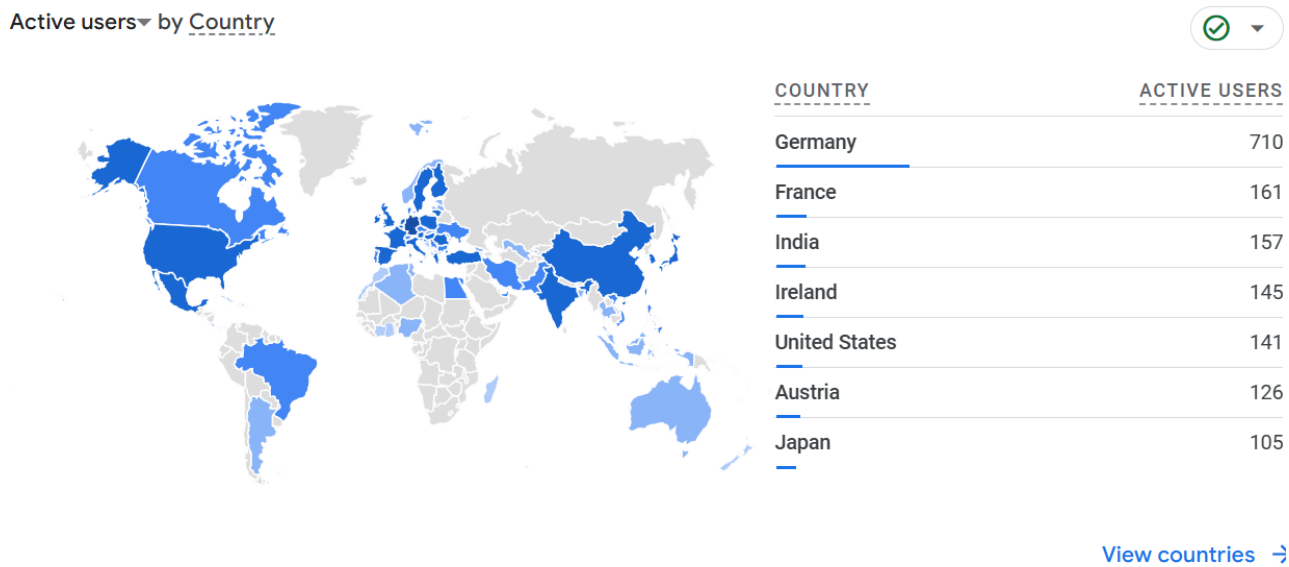


Figure 14: FEDERATE website users by country

In comparison to the previous reporting period, the interest from Germany has nearly doubled, with noticeable growth observed in India and new engagement emerging from Ireland. The remaining countries visiting the website remained consistent with the previous period: Germany, France, India, Ireland, United States, Austria, and Japan.

The FEDERATE website has shown strong growth, attracting 2.6k new users in the reporting period. As shown in Figure 15, user engagement was particularly high around the European SDV Ecosystem Summit 2025 event (nearly 1k views), confirming strong interest in upcoming events. Steady attention to the Dissemination (916 views), About (712 views), Consortium (around 700 views), and SDV events (around 500 views) sections indicates that visitors are actively seeking both project background information and updates on ongoing activities. The SDVoF R&I Projects (around 400 views) section also gained solid attention, showing that research and innovation outputs are of notable interest to the audience.

Views by Page title and screen class

PAGE TITLE AND SCREEN ...	VIEWS
Federate SDV	2.7K
European SDV Ecosystem Su...	973
Dissemination – Federate SDV	916
About – Federate SDV	712
Consortium – Federate SDV	697
SDV Events – Federate SDV	507
SDVoF Initiative Research an...	378

Figure 15: FEDERATE website engagement

The following recommendations for the 3rd reporting period are listed below based on the analytics made above:

1. *Need to capitalize on event-related interest*: future communication strategies should prioritize event promotion even more as before, as events have proven to generate the highest levels of user engagement.
2. *Need to enhance visibility of research outputs*: greater emphasis should be placed on promoting the SDVoF R&I Projects section, for example by presenting outcomes in a more accessible and engaging format to increase visibility and impact.
3. *Need to broaden outreach channels*: to sustain the growth of new users, additional communication through partner networks, newsletters, and social media is recommended, ensuring that first-time visitors are converted into recurring users.

To summarize, the FEDERATE website attracted 2,700 active users during the reporting period (M13–M24), confirming its effectiveness as a key tool for project dissemination and promotion.

Furthermore, the website was enhanced during the 2nd reporting period:

A new section “SDVoF Initiative” was created. It has separate sub-sections: “Introduction”[11], Action Plan”[12], “Supporters[13]”, “Manifesto”[14], “R&I Projects”[15]. The “R&I Projects” section is being constantly updated with the information about other SDVoF Initiative R&A Projects which are supported by or in collaboration with FEDERATE (see Figure 16 below):

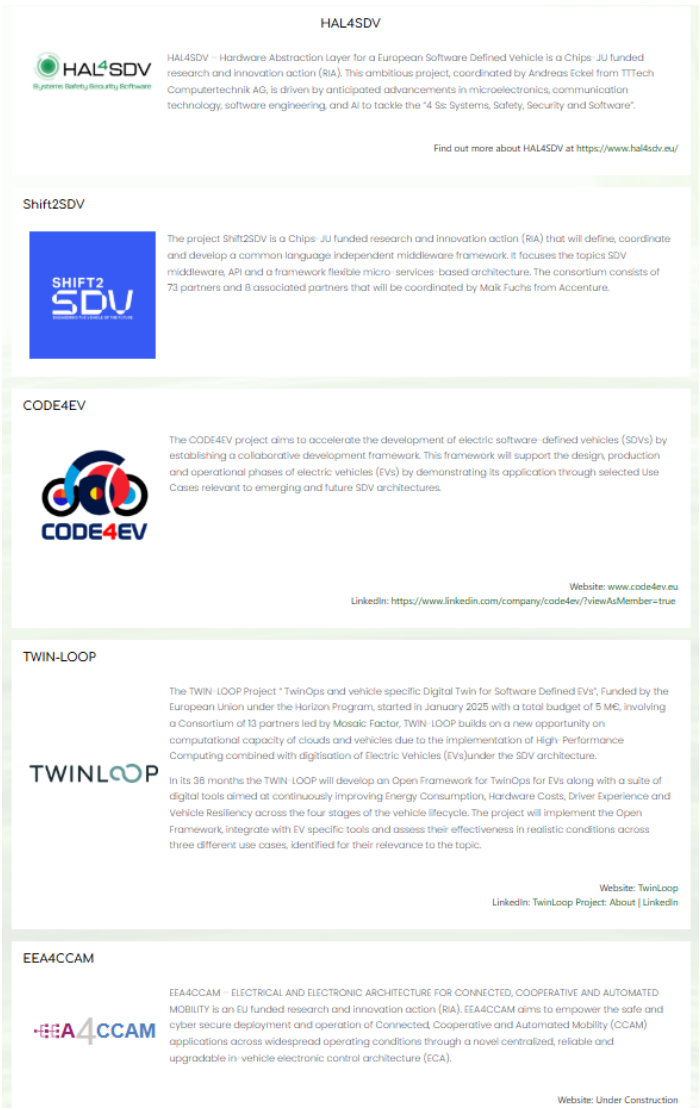


Figure 16: FEDERATE website: projects in collaboration/supported by FEDERATE

[11] https://federate-sdv.eu/sdvof-initiative/

[12] https://federate-sdv.eu/action-plan/

[13] https://federate-sdv.eu/supporters-of-the-sdvof-inititative/

[14] https://federate-sdv.eu/declaration-of-european-automotive-manufacturers-and-suppliers-manifesto/

[15] https://federate-sdv.eu/sdvof-initiative-research-and-innovation-projects-supported-by-federate/

1. The section “SDV events” was upgraded with the necessary software to have all events published in the same style and pattern. This allows to have upcoming, current, and past events on one page.

Figure 17: FEDERATE website: “SDV events” section

2. The “Dissemination” section was upgraded by uploading presentations from the European SDV Ecosystem Summit 2025[16] so anyone interested in the content of the summit could have an opportunity to access it.

The “News” section is also being constantly updated by newsletters of the project and various articles. During the 2nd reporting period there were 9 articles published in “News” section:

- “*Open-Source Pact drives Europe’s SDV ambitions*”

[16] https://federate-sdv.eu/presentations/

- *"Inside the European SDV Ecosystem Summit 2025: a new era for automotive mobility begins"*
- *"FEDERATE supports implementation of the EU Industrial Action Plan for the European automotive sector"*
- *"European Commission unveils Action Plan to boost innovation and sustainability in automotive sector, strengthening SDV Ecosystem"*
- *"The mobility forum of the #FZIOpenHouse in Karlsruhe"*
- *"Launch of the Open Tech Talk and discussion series for the Software Defined Vehicle of the Future (SDVoF) community"*
- *"FEDERATE and HAL4SDV presented at EFECS 2024"*
- *"FEDERATE Networking Event"*
- *"Software Defined Vehicle of the Future Webinar"*

4.3 Project Social Media Accounts

FEDERATE disseminates information via its' **LinkedIn** account.
Meanwhile, **YouTube** is used for uploading and sharing project videos (Table 10):

Table 10: FEDERATE Social media accounts

Social Media channel	Direct link
LinkedIn	https://www.linkedin.com/company/98900612/admin/feed/posts/
YouTube	https://www.youtube.com/@FEDERATECSAProject

From M13-M24, FEDERATE has reached 1222 followers on LinkedIn. The number of followers has increased by 375 for 12 months.
The most followers are from Germany and Austria, but some other countries like India, France, Belgium, the UK, Spain, Finland, Sweden, etc. also show interest in FEDERATE activities.

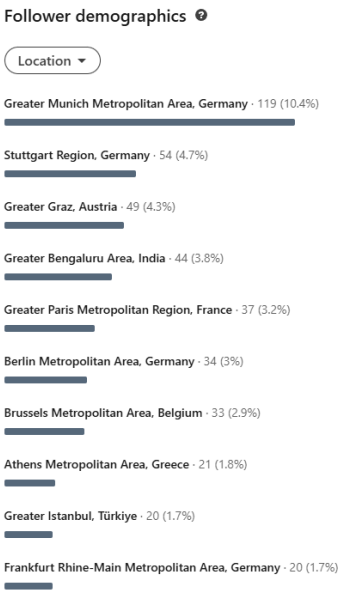


Figure 18: FEDERATE LinkedIn: follower demographics

FEDERATE follower metrics (M13-M24) are shown in Figure 19 below:

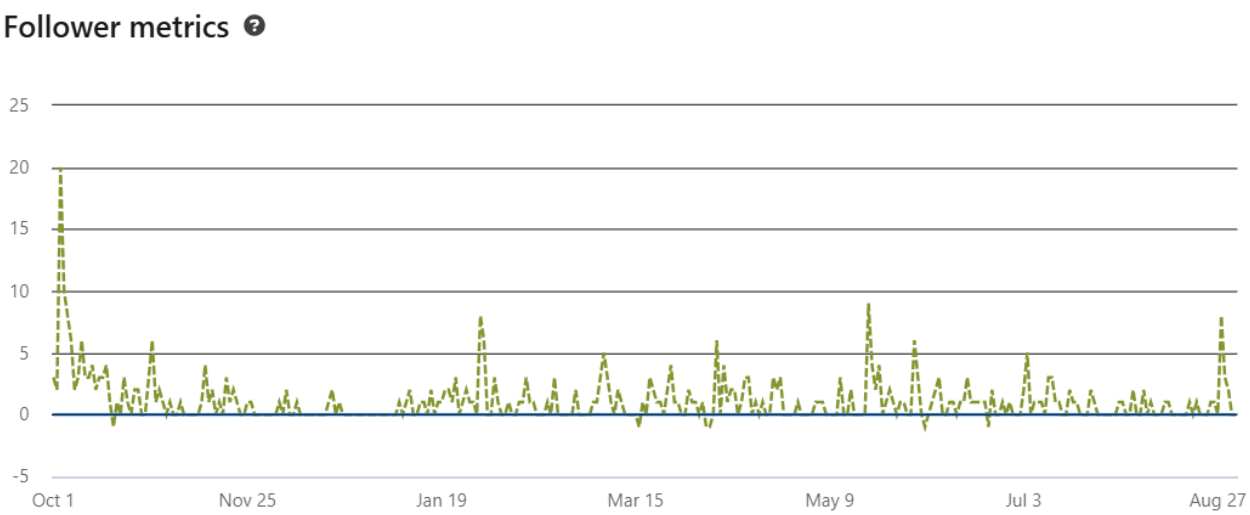


Figure 19: Followers metrics (M13-M24)

What concerns LinkedIn account visitors, the main change during the 2nd reporting period is that the majority of them were from the engineering area, while during the 1st reporting period, the main visitors were from the motor vehicle manufacturing area. During the 2nd reporting period, more interest was gained from business development, research, program and project management, while during the 1st reporting period, the majority of interest was from such areas as IT services, software development, semiconductor manufacturing, etc.

The comparison of the industries of the FEDERATE LinkedIn visitors is shown in Figures 20 and 21 below:

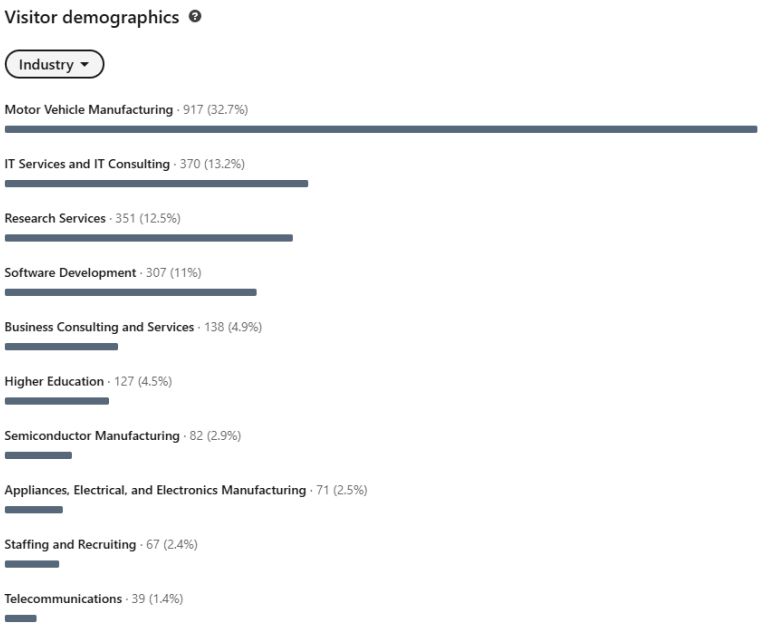


Figure 20: FEDERATE LinkedIn visitors (M1-M12)

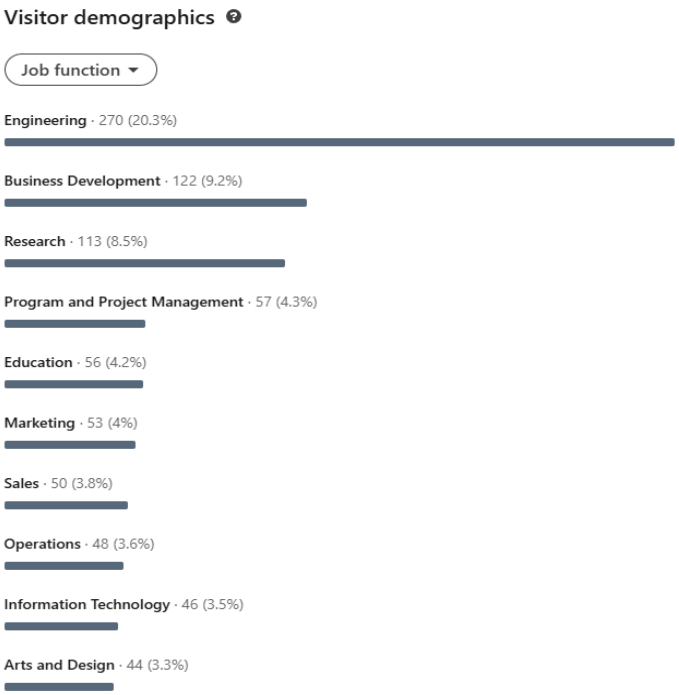


Figure 21: FEDERATE LinkedIn visitors (M13-M24)

The analysis of LinkedIn account visitors reveals a notable shift in the professional backgrounds and areas of interest between the two reporting periods. This shift suggests a broadening of the audience base and growing interest from diverse, multidisciplinary roles over time.

Furthermore, during a twelve-month period, FEDERATE posts received around 112k organic impressions in total[17] with more than 1k reactions, 24 comments, and 21 reposts.

Figure 22: FEDERATE content (M13-M24)

The main internal tool that is used to structure social media activity efforts is *a Social Media Content Calendar* which has been updated for 2025 in order to have a timeline and indicate responsibilities for each partner when it comes to the input to social media account during a certain week.

[17] Impressions refer to the total number of views when the content is at least 50% for at least 300ms, or the total number of times the content is clicked on, whichever comes first.

The Social Media Content Calendar defines exactly which partner is to deliver a social media post in a certain week. According to this calendar, the respective partner receives a reminder in advance. The content is aligned with WP5, and after the final version of the content is received, WP5 posts it on LinkedIn.

During M13-M24, there were around 39 posts in total, including information about different FEDERATE partners, news, events, SDV content, project updates, promotion of SDV Conferences, etc.

Images of each post are saved in the FEDERATE SharePoint with an indication of each partner who has prepared the content for the post.

Based on the positive experience with the approach described above, FEDERATE will continue to disseminate project results on LinkedIn, post about deliverables, reports, results, promote annual SDV conferences, workshops, hackathons, and inform about the outcomes of events.

4.4 Press Releases

3rd Press Release – Automotive Action Plan ("*FEDERATE unterstützt Umsetzung des EU-Industrieaktionsplans für den europäischen Automobilsektor*"[18]/ "*FEDERATE supports implementation of the EU Industrial Action Plan for the European Automotive Sector*") was prepared and disseminated during the 2nd reporting period.

The Press Release was published on IDW (*idw-Informationsdienst Wissenschaft*) on March 26, 2025, in German language. It was sent to 12,395 subscribers. Of these, 2,955 are registered as journalists with the Science Information Service (214 of these are accredited).

WP5 also shared the Press Release in English language to five news portals which operate in Baltic States.

- *The Baltic Times - News from Latvia, Estonia & Lithuania*. It's an English-language publication focusing on regional news and business, including EU and automotive-related news. It has both online and print editions.
- *Magazine "Baltic Business Quarterly"*. A quarterly magazine that covers business developments, including EU policies and their impact on sectors like the automotive industry. It's an ideal platform for reaching decision-makers in the Baltic region.
- *Euractiv (Baltic edition)* - News & EU policy from Europe, for Europe. Euractiv is a pan-European network that covers EU affairs, including policies affecting the automotive sector. Their Baltic edition provides news relevant to the region's business and regulatory climate.
- *Baltic News Network* - an online publication covering business, economic, and policy news in the Baltic region, including EU regulations that impact local industries, e.g., automotive.

4.5 Newsletters

During M13-M24, 4 newsletters (October 2024, February 2025, May 2025, July 2025) were prepared and disseminated to the subscribers and public audience via LinkedIn and the project website. The following 8th newsletter (in total) is planned to be released in October 2025.

[18] https://idw-online.de/de/news849645

Newsletter Issue No. 4[19] was sent to **249** subscribers. This issue highlighted the FEDERATE Networking Event held on September 23, 2024, in Vienna, Austria. Additionally, it facilitated the discovery of key building blocks for the Software-Defined Vehicle (SDV) of the future and provided insights from The Autonomous Main Event 2024. It has also shared information about the upcoming monthly Tech Talks for the SDVoF Community, moments from recent events, and an invitation to register for the 1st FEDERATE online webinar – "Software Defined Vehicle of the Future" taking place on November 4, 2024.

Welcome to the newsletter of FEDERATE!

10/2024, Issue No. 4

FEDERATE

FEDERATE Networking Event Retrospective

Author: Jurgita Šikšnienė, METIS BALTIC

The FEDERATE Networking event, held on September 23, 2024, in Vienna, brought together 63 participants from various sectors: OEMs, engineers, academics, and researchers with expectations for better understanding of Software Defined Vehicle of the Future (SDVoF), overview of related initiatives, networking, updates, insights and opinions about Software Defined Vehicle (SDV). Organized in conjunction with the Autonomous Main Event 2024, the event focused on the European automotive industry's transition to SDV, promoting collaboration and knowledge sharing.

The event featured presentations on key European SDV initiatives, organizations and projects like Eclipse SDV, HAL4SDV, SHIFT2SDV, 2ZERO, CCAM, AUTOSAR, COVESA and SOAFFEE. Speakers from SDV initiatives, projects and organizations as well as the European Commission emphasized the need for innovation, standardization, and increased collaboration to address growing global competition, especially from non-EU countries.

Interactive sessions allowed participants to brainstorm solutions for SDV challenges, with discussions on topics like stack, cloud, tools, and strategic considerations. The event highlighted the importance of professional developers, simplifying complexity, and fostering pre-competitive collaboration in the SDV area.

The event concluded with a call for Europe to overcome challenges by aligning existing initiatives and establishing common standards for SDV development, reinforcing the importance of collective effort to drive the future of the automotive industry.

Find more photos of the event here: https://federate-sdv.eu/dissemination/#DisseminationPhoto

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Figure 23: 4th Newsletter of FEDERATE

[19] https://federate-sdv.eu/2024/10/25/federates-fourth-newsletter-10-2024-issue-no-4/

Newsletter Issue No. 5[20] was sent to **286** subscribers. In this issue, key SDV advancements were explored: groundbreaking innovations and collaborations driving the industry forward based on participation at the SIA CESA 2025 conference and the success of the 2024 Eclipse SDV Hackathon. Also, it includes information about the participation at EFECS 2024 and an invitation to join the Open Tech Talk and Discussion Series for the Software-Defined Vehicle of the Future (SDVoF).

Welcome to the newsletter of FEDERATE!

02/2025, Issue No. 5

FEDERATE

Driving Change: SIA CESA 2025 Focusing on the SDV of the Future

Author: Ole Großmann, VDI/VDE Innovation + Technik GmbH

The automotive industry is undergoing a seismic shift, reshaping how vehicles are designed, built and experienced. At the heart of this transformation lies the Software Defined Vehicle (SDV) – a game-changer redefining mobility and connectivity in the modern world.

The principle behind this innovation is elegantly simple: separating the software support layer (middleware) from the functional application layer. This approach allows vehicle software to function more independently from the physical hardware layer, unlocking a host of benefits, including accelerated reuse of software across models, simplified maintenance, reduced development costs and the ability to introduce new features throughout a vehicle's lifetime.

Transitioning to this new software-driven approach comes with its own challenges. A hardware abstraction layer must be established and the vehicle's functional architecture reimagined. Managing the interplay between existing system components and the development of an updated infrastructure adds complexity, alongside a range of other technical hurdles that must be overcome.

Another significant issue lies in adapting the software architecture to existing physical hardware, given the sheer variety of microcontrollers spread across different vehicle data buses. To address this, many manufacturers are taking inspiration from new OEMs by adopting centralized hardware architectures. By consolidating computing power, these architectures align more seamlessly with the software-defined strategy and its demands.

In theory, this hardware configuration is ideal: by consolidating processing power, it boosts efficiency, centralizes connectivity for improved management and facilitates flexible access to vehicle functionalities, similar to the way smartphones operate. However, a car is far more complex than a smartphone on wheels. This approach itself raises its share of complications: managing model diversity, adapting functionalities to the new system, integrating heterogeneous interfaces into a single network as well as ensuring compliance with safety and security standards. While these obstacles may seem insurmountable, with significant effort, we can expect to see the first vehicles built on this concept hitting the roads by 2026.

Currently, the market suffers from an excessive diversity of costly architectures and the difficulty of implementing the new approach across the entire sector. To stay competitive and avoid falling behind non-European competitors, it is crucial to foster collaboration on numerous non-competitive topics and to develop a unified strategy at European level.

The **SIA CESA 2025** will provide the SDV community with valuable opportunities to engage in a qualified exchange. Taking place in **Versailles on February 12-13, 2025**, the congress will gather numerous specialists and offer a platform to explore topics related to SDVs and centralized electronic architectures. A panel discussion with international experts will be a key element. Furthermore, members of the FEDERATE consortium will deliver two keynote presentations, providing insights from both OEM and Tier perspectives, on the first day of the conference.

For more details and registration, please visit the SIA CESA 2025 webpage: https://www.sia.fr/evenements/366-sia-cesa-2025.

EUROPEAN PARTNERSHIP

Figure 24: 5th Newsletter of FEDERATE

[20] https://federate-sdv.eu/2025/02/04/federates-fifth-newsletter-02-2025-issue-no-5/

Newsletter Issue No. 6[21] was sent to **314** subscribers. This issue recaps highlights from the specific events including our engagement in Tech Talk on XEN virtualization with AMD's Stefano Stabellini, international congresses like SIA CESA 2025, and industry showcases such as Embedded World and FZI Open House. It also invited to the European SDV Ecosystem Summit on May 20 in Munich. This issue also spotlights the European Commission's *Automotive Action Plan*, setting the direction for AI-powered, connected, and autonomous vehicles through a newly proposed *Connected and Automated Vehicle Alliance*. It also announced that FEDERATE is bringing together research, open-source communities, and key initiatives like HAL4SDV, Twin-Loop, and Code4EV.

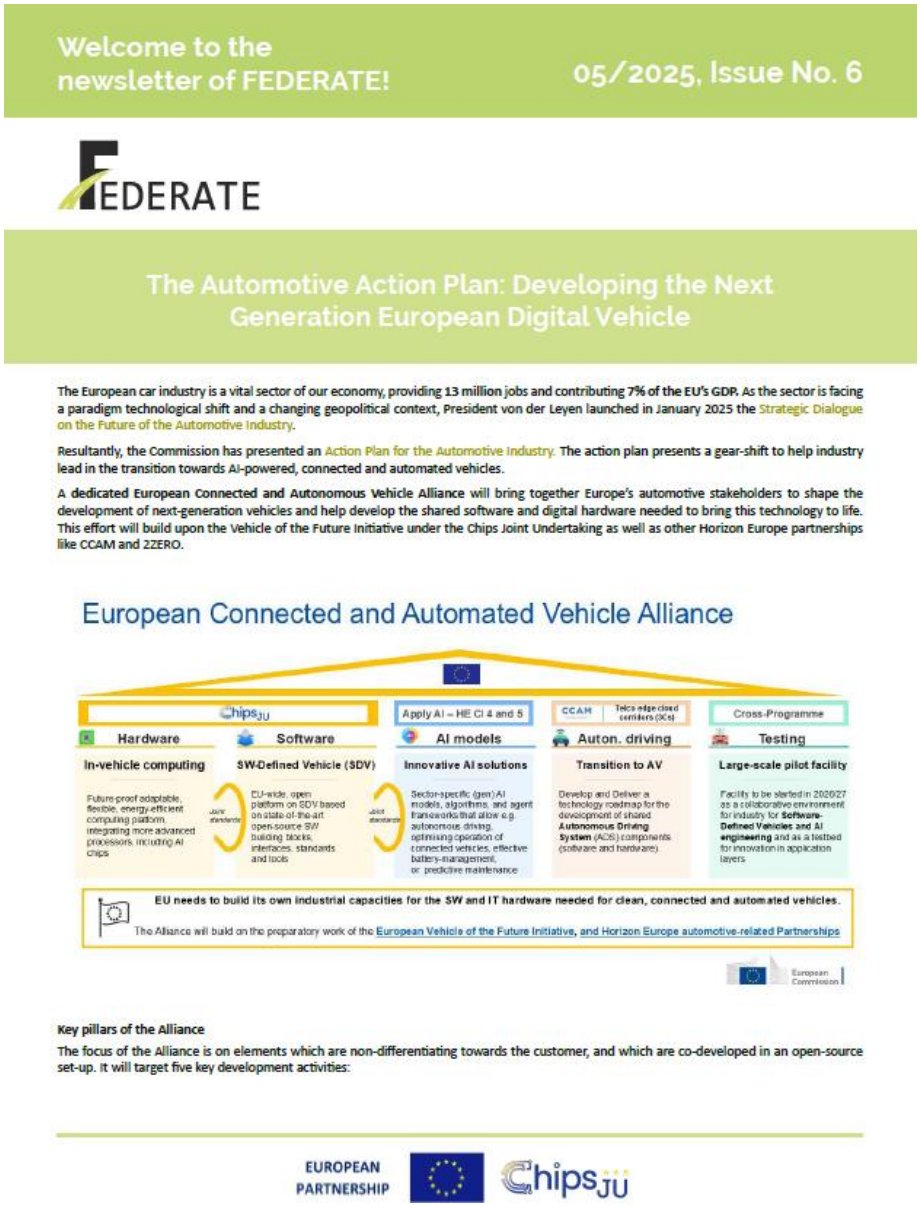


Figure 25: 6th Newsletter of FEDERATE

[21] https://federate-sdv.eu/2025/05/08/federates-sixth-newsletter-05-2025-issue-no-6/

Newsletter Issue No. 7[22] was sent to **346** subscribers. This issue highlights the European SDV Ecosystem Summit 2025 held in Munich. The newsletter captures key presentations, project showcases, and strategic initiatives that underscore Europe's commitment to modular, interoperable, and open-source SDV platforms.
It also presents the FEDERATE Building Block Repository and insights from major industry players, as well as recent event participation across Europe.

Welcome to the newsletter of FEDERATE! 07/2025, Issue No. 7

FEDERATE

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 Schneid**, 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.

EUROPEAN PARTNERSHIP Chips JU

Figure 26: 7th Newsletter of FEDERATE

[22] https://federate-sdv.eu/2025/07/29/federates-seventh-newsletter-07-2025-issue-no-7/

FEDERATE has created an extensive list of SDV Ecosystem subscribers (around 400 in total for the moment), which has doubled in comparison to the 1st reporting period. Consortium partners always plan topics for the newsletter in advance, which could be included in the upcoming newsletter issue, and share responsibilities for the preparation of the respective topics.

4.6 Videos

Between months M13–M24, a video[23] showcasing highlights from the FEDERATE Networking Event was released. It was featured in the FEDERATE newsletter, on the project's YouTube channel and social media platforms, and was also presented at the European SDV Summit in Munich, Germany, to demonstrate the collaborative efforts of the SDV ecosystem within the FEDERATE project.

Additionally, a shorter video[24] was produced specifically for social media, capturing key moments from the European SDV Ecosystem Summit 2025.

4.7 Print Outs or Electronic Versions

The project roll-up banner was updated once again to feature key project information and highlight synergies supporting the European SDV Initiative. It was actively showcased at external events.

[23] SDVoF conference highlight moments: SDVoF Conference highlight moments

[24] European SDV Ecosystem Summit 2025 – event recap: https://www.linkedin.com/feed/update/urn:li:activity:7340302379445075970

Figure 27: updated FEDERATE roll-up banner

Furthermore, one-page leaflets were produced including information about FEDERATE, SDVoF Initiative Vision and roadmap, Industrial Action Plan, declaration of European Automotive Manufacturers and suppliers and Collaborations. They were printed out and distributed at the European SDV Summit in Munich, Germany as communicational material to support the event.

Figure 28: FEDERATE one-page leaflet

Also, a number of notebooks together with pens, branded candies and name tags were designed, manufactured and used as promotional materials at the European SDV Summit (Figure 29):

Figure 29: FEDERATE merchandise

5 Monitoring Dissemination and Communication

A systematic methodology for monitoring dissemination and communication activities was defined in D5.3. In accordance with this methodology, FEDERATE has been promoted through its website and LinkedIn channel in a consistent and effective manner and actively represented at external events. Website performance has been monitored using Google Analytics, providing data on visitor traffic, time spent on the site, and the sections attracting the most and least attention.
On this basis, a dissemination and communication activities report has been prepared at M24, covering the status of the project webpage as well as the outcomes of the SDV Conference (European SDV Summit 2025). This report will be further updated at M36.

While the established methodology enables quantifiable assessment of results, the most important indicator of success is the continuous growth of the SDV Ecosystem membership. This trend demonstrates tangible interest and active engagement in FEDERATE activities, as well as in the broader European SDV Initiative and its vision.

Finally, the KPIs defined in D5.3 have been systematically monitored and are updated in this report (Table 11), evidencing the progress achieved during the 24-month reporting period.

Table 11: Key Performance Indicators

Measure	KPIs	M1-M12	M13-M24	Cumulative Total (M1-M24)
Website	2000 – 3000k visitors in total by M36	1700 visitors	2700 visitors	4400 visitors
LinkedIn	Up to 800 followers on LinkedIn by M36	768 followers	454 followers	1222 followers
Newsletters	Highly dependent on project developments (at least 6 by M36)	3 newsletters	4 newsletters	7 newsletters
Press releases	At least 2 by M36	2 press releases	1 press release	3 press releases
Posters (printed and/or electronic)	2 – 3 by M36	4 posters	0 posters	4 posters
Project roll-up banner	1 –2 in total	2 roll-up banners	1 roll-up banner	3 roll-up banners
Videos	2 – 4 by M36	2 videos	2 videos	4 videos
SDV Conferences	At least 3 by M36 (once per year)	1 SDV Conference organized by FEDERATE (FEDERATE Networking event)	1 SDV Conference organized by FEDERATE (European SDV Summit)	2 SDV Conferences organized by FEDERATE
Hackathons	2 by M36	0 hackathon	1 hackathon	1 hackathon
Technical and Informational Workshops	Multiple by M36	0 technical and informational workshops	6 technical workshops (Tech Talks + Webinars)	6 technical workshops (Tech Talks + Webinars)

Measure	KPIs	M1-M12	M13-M24	Cumulative Total (M1-M24)
External networking/awareness events	To be determined by partners according to their possibility to participate, but not less than 10 events per year where FEDERATE is presented	19 external events attended with presentations of FEDERATE and SDVoF.	23 external events attended with presentations of FEDERATE and SDVoF.	42 external events attended with presentations of FEDERATE and SDVoF in total.
Dissemination and communication activities report	3 in total	1 report	1 report	2 reports (M12+M24)

The dissemination and communication activities of FEDERATE have shown a clear upward trajectory between the first and second reporting period, both in terms of audience reach and engagement diversity. Digital visibility increased substantially, with website visitors growing from 1,700 to 2,700 (+59%) and LinkedIn followers rising from 768 to 1,143 (+49%). This reflects steady growth in the project's online presence and sustained interest from the SDV community. Communication outputs remained consistent although visual materials such as posters and roll-up banners were produced more intensively in the first period, with lower demand in the second as project branding was already well established.
Event participation expanded significantly as new formats of engagement were introduced in the second period, with the participation at the first Hackathon and organization of six technical and informational workshops, diversifying interaction with stakeholders and fostering hands-on collaboration.

6 Conclusion

Overall, the accumulated results (M1–M24) demonstrate that FEDERATE has achieved:

1. Steady growth in visibility and reach, evidenced by the increase in digital audiences.
2. Diversification of engagement activities, with the introduction of hackathons and workshops.
3. Balanced communication outputs, with initial emphasis on visual materials followed by consolidation through events and digital promotion.
4. A strong cumulative record, with 42 external events, more than 1000 LinkedIn followers, and more than 4,000 website visitors reached within the first 24 months.

These results indicate that dissemination and communication activities are not only progressing according to plan but are also expanding in scope, impact, and sustainability, contributing effectively to the visibility of the project and to the strengthening of the European SDV Initiative.

Building on the achievements of the first two reporting periods, there are several opportunities to further enhance FEDERATE's dissemination and communication activities in the third reporting period. While the website and LinkedIn presence have grown steadily, engagement could be increased by introducing more interactive content, presenting updates on project milestones, use cases, and stakeholder testimonials. Additionally, press and media coverage should be strengthened by aligning press releases with **key project developments** and **targeting specialized SDV and European mobility media** to reach a broader and more relevant audience.
The successful introduction of hackathons and workshops in the second period could be expanded in the third period by organizing additional interactive events, including virtual or hybrid formats, to engage a wider

audience and generate content for social media and newsletters.
Finally, video content could be diversified with shorter, more frequent snippets showcasing highlights of the participation at the events to maintain attention and increase reach.

Overall, the key KPIs have been successfully met and are expected to be surpassed during the third reporting period. There were no delays during the 2nd reporting period or any significant disruptions as well as other obstacles impacting dissemination and communication activities.

7 Tables

8 Figures

Annex A: *Photos from the external events attended (M13-M24)*

OCX – Open Code Experience on 22-24th October 2024

Michael Paulweber from AVL and Detlef Zerfowsky from ETAS moderated panel discussions on the European SDV software stack and open-source regulation, joined by Rolf Riemenschneider from the EC's DG Connect and various industry representatives. Additionally, Michael Niklas-Höret from Continental and AUTOSAR presented a lightening talk on integrating open-source solutions with existing and upcoming AUTOSAR software stacks.

EFECS 2024 on 5-6th December

The Federate project took centre stage, highlighting its innovative vision and impact, with Michael Paulweber delivering an engaging overview that sparked lively discussions. At the event, the Federate booth allowed project partners to interact with visitors, share insights, and showcase how Federate is driving innovation in #SDVoF.


Chips JU
EUROPEAN PARTNERSHIP
simon pugh


Chips JU
simon pugh


simon pugh


Chips JU
ECS 2024
GHENT
5-6 December
Strengthening EU competitiveness
simon pugh

SIA CESA Conference on 12 – 13th February 2025

A key highlight was the SIA CESA Conference in Versailles, where ETAS engaged in dynamic discussions with OEMs and Tier suppliers about the evolving automotive software landscape. Dr. Detlef Zerfowski's presentation emphasized the importance of open collaboration in shaping software-defined vehicles, showcasing how ETAS and FEDERATE drive industry-wide innovation.

Mobility Forum of the #FZIOpenHouse on 27th February 2025

At the #FZIOpenHouse Mobility Forum on 27 February 2025, FEDERATE partners highlighted that Germany's success in software-defined mobility depends on Open-Source Software, with SDV making software a core business driver. FEDERATE partners emphasized the strategic importance of OSS, showcasing approaches from Mercedes-Benz AG, the shift to computer science-driven vehicle software, and the need for more software expertise in leadership and workforce development.

Embedded World Exhibition & Conference 2025 on 11-13th March 2025

In March, Mario Driussi from Virtual Vehicle Research GmbH represented FEDERATE at Embedded World 2025, engaging with industry leaders on innovations in #SoftwareDefinedVehicles and #AutonomousSystems. The event brought together experts to explore the future of embedded hardware, software, and system design, fostering conversations that will drive continued innovation.

VDA Mobility Innovation Summit on 25-26th March, 2025

Dr. Detlef Zerfowski represented ETAS at the VDA Mobility Innovation Summit in Berlin, joining a panel with Mercedes-Benz AG, BMW Group, and Deloitte to discuss how software is reshaping mobility and the challenges of accelerating Software-Defined Vehicle (SDV) development.

16th AUTOSAR Open Conference on 27-28 May

The 16th AUTOSAR Open Conference in Bruges highlighted that while collaboration is essential for advancing the Software-Defined Vehicle (SDV), it remains challenging in a competitive, fragmented, and resource-constrained landscape. FEDERATE addresses this by providing a shared vision, roadmap, glossary, repository, and ecosystem events to enable efficient and secure collaboration in the SDV world. Peter Priller (AVL) has presented FEDERATE while his talk "Joining forces in the SDV universe. Can SDV be done in collaboration?".

Shift2SDV Kick off on 1st July, 2025

At the Shift2SDV Kick-off in Munich, the presentation of FEDERATE and the SDVoF Vision sparked key discussions on collaboration, the role of open source, and alignment with the European Automotive Action Plan. FEDERATE partners Peter Priller (AVL) and Sara Gallian (Eclipse) showcased how the initiative is building an ecosystem to drive the future of software-defined vehicles.

COVESA All Member Meeting (AMM) on 28th May in Berlin

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.


FEDERATE
Software-Defined Vehicle Support and Coordination Project
VISION
MAIN OBJECTIVE
MISSION
36 MONTHS
29 PARTNERS
Automotive


FEDERATE
TO SUPPORT:

Annex B: European SDV Ecosystem Summit 2025 - report M24

Table 12: Facts & figures of the European SDV Ecosystem Summit 2025

FACTS & FIGURES	
No. of registered participants	129
No. of participants who participated in the event	103
No. of speakers	17
No. of presentations	14
Topics of the presentations	"Leading the Future of Automotive Innovation in Software-Defined Vehicles – Together" "Accelerate Work in Open Source Ecosystems" "Collaboration Industry and Public Authorities in Digital Vehicle" "Short Introduction and Status of FEDERATE & SDVoF Initiative" "Scientific Board Presentation" "RIGOLETTO Presentation" "SDV out of the Box" "From BB to SOP – Eclipse SDV WG Perspective" "Eclipse S-CORE" "Collaboration and contributions from COVESA" "CCAM Partnership and its links to the SDVoF Initiative" "AUTOSAR in an OSS World" "SOAFEE - accelerating automotive development" "SDV Project Session: HAL4SDV, CODE4SDV, Twin Loop" "FEDERATE BB Repository & SDVoF vision – overview on BB repository"

Summary

More than 100 engineers, researchers, policymakers, and innovators gathered at the premises of Infineon Technologies AG for a shared purpose: to reimagine the future of software defined vehicles. FEDERATE has organized the European SDV Ecosystem Summit 2025 - a living demonstration of what Europe can achieve in

the mobility area.
Organized by **FEDERATE** the Summit carried a clear theme — *"From Building Blocks to Start of Production (SOP)."* Yet behind the slides and session titles, a deeper story was unfolding: one of convergence, collaboration, and a quiet revolution in how vehicles will be designed, built, and evolved.
Presentations of the Summit are shared publicly on FEDERATE website (Presentations – Federate SDV) together with accompanying article summarizing the key points of the event[25].

The Summit opened with remarks from Oliver Höing of Germany's Ministry of Research, Technology and Space, followed by a presentation from Thomas Schneid, Senior Director of Software at Infineon Technologies AG. Schneid's keynote laid out a bold vision for RISC-V-based microcontrollers — arguing that Europe can reclaim control of its hardware future by embracing flexibility, modularity, and security in ways that proprietary approaches have long held back.
He made clear that RISC-V is more than a chip design — it's a philosophy tuned to the needs of Software-Defined Vehicles (SDVs), where vehicles become software platforms, and compute units evolve from isolated embedded boxes into orchestrated ecosystems.
Michael Paulweber (AVL List GmbH) and Daniel Watzenig (Virtual Vehicle) took the audience through their building of the *Software-Defined Vehicle of the Future (SDVoF)*: defining functional building blocks, mapping the architecture, and designing the meta-framework underpinning it all. For many, the highlight was the public debut of the FEDERATE Building Block Repository — a curated library of reusable, versioned, and tagged software modules ready for integration. It stood as a vivid example of how open collaboration can outpace closed development.
In the afternoon, the focus shifted to concrete implementations:

- Sara Gallian (Eclipse Foundation) and Detlef Zerfowski (Bosch/ETAS) revealed S-CORE, a middleware framework that makes the SDV promise real: modular, cross-domain, and open. Its design enables use across multiple OEMs and suppliers, not just bespoke solutions.
- Jan Kubovy (BMW) and Emil Dautovic (RemotiveLabs) presented COVESA's Vehicle Signal Specification (VSS), showing how standardized data signals can flow reliably from vehicle to cloud and back. This supports diagnostics, analytics, and service delivery without duplicative effort.
- Michael Niklas-Höret (Continental) and Bernhard Rill (ARM) illustrated how AUTOSAR and SOAFEE provide a layered automotive software world: where real-time applications can coexist with containerized services, and Kubernetes clusters support over-the-air (OTA) updates and modular service deployment.

Perhaps the most inspiring part was the SDV project track, where three flagship projects revealed tangible progress:

1. HAL4SDV (TTTech) showed a hardware abstraction layer with built-in fault containment and secure enclaves — aimed at safety-critical performance across varied ECUs.
2. CODE4EV (Armengaud Innovate) translated electric-vehicle features from models to deployable, testable software with a full CI/CD toolchain.
3. Twin-Loop (Mosaic Factor) demonstrated an open framework enabling two-way data flows among vehicle, backend, and cloud — enabling OTA, analytics, predictive intelligence.

The day closed with Mario Driussi (Virtual Vehicle), who shifted the focus from technology to community: maintainers, contributors, collaborators — people who will carry this forward. What emerged clearly by the end was a refrain heard throughout: the Software-Defined Vehicle is no longer a vision — it's already becoming

[25] https://federate-sdv.eu/2025/05/21/inside-the-european-sdv-ecosystem-summit-2025-a-new-era-for-automotive-mobility-begins/

a network.
With this report **five main take-aways** from the second FEDERATE SDV Conference is listed and described below:

1. *Europe's hardware independence through RISC-V.*
   Presenter: Thomas Schneid (Infineon Technologies AG)

   - ✓ The keynote emphasized RISC-V microcontrollers as a cornerstone for Europe's hardware sovereignty.
   - ✓ RISC-V is not only an open chip design but a philosophy of openness and adaptability.
   - ✓ Its flexibility and modularity make it particularly suited to SDVs, where vehicles evolve from isolated embedded systems into software-defined platforms orchestrated across multiple domains.

2. *Launch of the FEDERATE Building Block Repository.*
   Presenters: Michael Paulweber (AVL List GmbH) and Daniel Watzenig (Virtual Vehicle)

   - ✓ A milestone was reached with the first public demonstration of the FEDERATE Building Block Repository.
   - ✓ This curated library of reusable, tagged, and versioned software modules provides developers with ready-to-integrate components.
   - ✓ The repository exemplifies how open collaboration accelerates innovation, offering an alternative to slow, closed development processes.

3. *Middleware and standards for a shared SDV Ecosystem.*
   Presenters: Sara Gallian (Eclipse Foundation), Detlef Zerfowski (Bosch/ETAS), Jan Kubovy (BMW), Emil Dautovic (RemotiveLabs)

   - ✓ S-CORE was presented as a modular middleware framework enabling cross-domain and cross-OEM solutions. It demonstrates that SDV foundations can be scalable, flexible, and open for the entire industry.
   - ✓ COVESA's Vehicle Signal Specification (VSS) showcased how standardized data signals enable seamless communication between vehicle and cloud.
   - ✓ This ensures compatibility across different platforms, reducing redundant development efforts for diagnostics, analytics, and connected services.

4. *A layered software future with AUTOSAR and SOAFEE*
   Presenters: Michael Niklas-Höret (Continental) and Bernhard Rill (ARM)

   - ✓ AUTOSAR and SOAFEE frameworks were positioned as the foundation of a layered automotive software architecture.
   - ✓ Their approach allows real-time applications to run alongside containerized services, combining safety-critical functions with cloud-native flexibility.
   - ✓ Kubernetes clusters add orchestration capabilities, enabling modular deployment, OTA updates, and secure service management.

5. *From research to reality – SDV projects:*
   Leads of the projects:

- ✓ HAL4SDV (TTTech): A hardware abstraction layer with fault containment and secure enclaves, ensuring safety-critical performance across heterogeneous ECUs.
- ✓ CODE4EV (Armengaud Innovate): Automated CI/CD toolchain translating model-based EV functions into deployable, testable software.
- ✓ Twin-Loop (Mosaic Factor): An open framework supporting bi-directional data flows between vehicle, backend, and cloud — enabling OTA, analytics, and predictive intelligence.
- ✓ All three initiatives demonstrated working prototypes on real hardware, signalling a decisive step from research toward pilot deployments.

The presentations and projects showcased during the Summit align closely with the core elements of the FEDERATE project's objectives, vision, and mission. Together, they indicate that the project is not only on track but making substantive progress. Key interrelations are outlined below:

Table 13: Alignment with FEDERATE's vision & mission

FEDERATE vision / mission	Related findings from the Summit	Confirmations
Vision: building a collaborative Open European SDV Ecosystem that contributes to clean, affordable, safe mobility; strengthens chip & automotive software sovereignty	The emphasis on RISC-V microcontrollers (flexibility, modularity, security) reaffirms the push for hardware sovereignty and lowering dependence on proprietary architectures.	Europe is seriously pursuing one of its strategic goals: controlling key hardware/software layers.
Mission: bring all stakeholders together (mobility industry, open source, semiconductors, public authorities) to accelerate SDV Ecosystem development; foster a vibrant community; orchestrate R&D&I activities.	The diversity of presenters—from chip manufacturers (Infineon, ARM), middleware and standards bodies (AUTOSAR, COVESA, Eclipse, Bosch/ETAS), OEMs, and R&D projects (HAL4SDV, Twin-Loop, CODE4EV)—illustrates broad stakeholder participation. Also, the live demonstration of shared tools (Building Block Repository) shows community and infrastructure building.	Meaningful progress is being made in cross-stakeholder collaboration. The tools and frameworks are real, shared, and moving toward production/pilots.
Main objectives: collect & evaluate future trends; establish a common understanding (glossary); maintain a roadmap; create and sustain an SDV community; enhance European competitiveness in mobility & semiconductors	During the Summit definitions and standards (Vehicle Signal Specification, middleware architectures) contributed toward common understanding. The roadmap is being populated with real pilot projects. The community saw contributions from many sectors.	The findings are not just theoretical; they advance Europe's ability to compete globally in the SDV domain. Shared modules, modular architecture, standards, and validated projects all make Europe more agile and self-reliant.

The specific findings presented at the Summit directly advance FEDERATE's objectives by turning abstract goals into tangible outcomes. The launch of the Building Block Repository embodies the principle of reusability and standardisation, providing the SDV community with shared components that accelerate innovation and reduce development overhead. Similarly, the demonstrations of S-CORE, VSS, AUTOSAR, and SOAFEE highlight how middleware and standards can establish a common technical foundation. By enabling interoperability across domains and stakeholders, these frameworks address one of FEDERATE's central missions: fostering collaboration and building a shared understanding within Europe's SDV ecosystem.

Equally important, the flagship projects HAL4SDV, CODE4EV, and Twin-Loop illustrate how research is being translated into hardware-validated, deployable frameworks. This marks a decisive step from early-stage exploration to real-world applicability, directly supporting FEDERATE's goal of strengthening European competitiveness in mobility and semiconductors. Finally, the emphasis on RISC-V underlines the strategic drive toward European sovereignty in hardware, aligning with the project's vision of clean, safe, and affordable mobility. Together, these achievements confirm that FEDERATE is not only orchestrating R&D&I activities but also delivering concrete building blocks for an open, collaborative SDV future.

The Summit clearly demonstrated that FEDERATE is moving from vision to execution, with the essential components of an open European SDV ecosystem now taking shape. Shared building blocks, common standards, validated pilot frameworks, and active community participation all signal that the groundwork is rapidly evolving into practical, deployable solutions. Each major takeaway - whether the repository, middleware frameworks, SDV projects, or RISC-V momentum - directly reinforces FEDERATE's objectives and showcases how collaboration across industry, research, and open-source communities is translating into measurable progress.
Looking ahead, the momentum generated positions Europe to deliver SDV capabilities that are not only modular and flexible but also safer, more secure, and less reliant on proprietary systems. By strengthening technological sovereignty and competitiveness, FEDERATE is creating the foundation for a sustainable, collaborative SDV ecosystem that aligns with its vision of clean, affordable, and future-proof mobility.

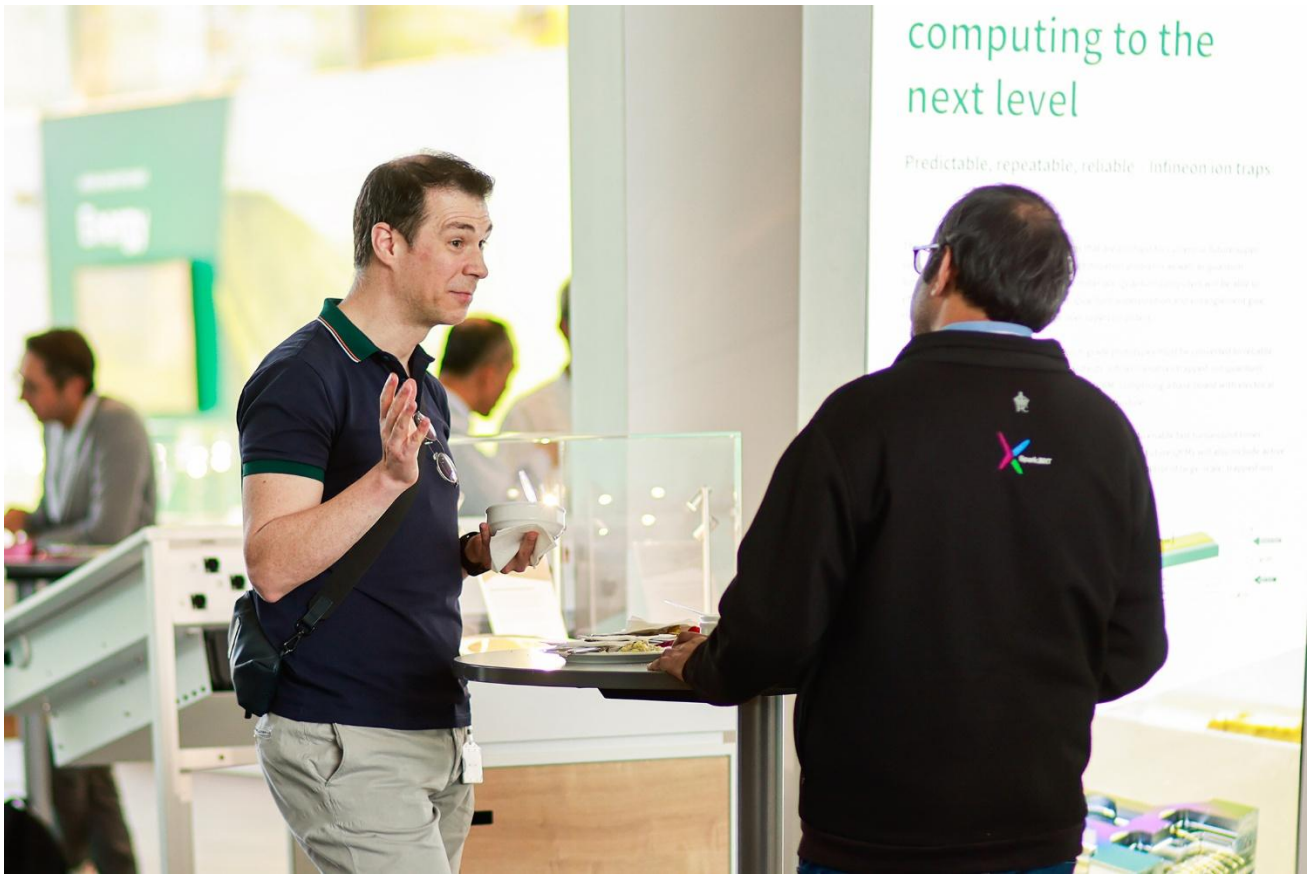
The following photos from the event are shown below:


HAL BDV


FEDERATE
VISION
MAIN OBJECTIVE
MISSION
36 MONTHS


TWINLOOP


FEDERATE
VISION
MAIN OBJECTIVE
MISSION


computing to the
next level


HAL SDV
HARDWARE ABSTRACTION LAYER FOR A EUROPEAN SOFTWARE DEFINED VEHICLE APPROACH


AGENDA
Time (CET)
09:00 – 09:30
Welcome Coffee
28 PARTNERS


FEDERATE
Software-Defined Vehicle Support and Coordination Project
VISION

The end of the document