



“An Eclipse SDV Ecosystem Landscape” and the “Eclipse SDV Landscape Project”

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Agenda

- Why Ecosystem Visibility Matters
- Existing success story: The CNCF Landscape Model
- The Eclipse SDV Landscape Project (Proposal)
 - How It Works
 - The SDV Ecosystem Today
 - Future Evolution
- Call to Action & Discussion
- Tomorrow: From Blueprint to Bits

Why Visibility Matters

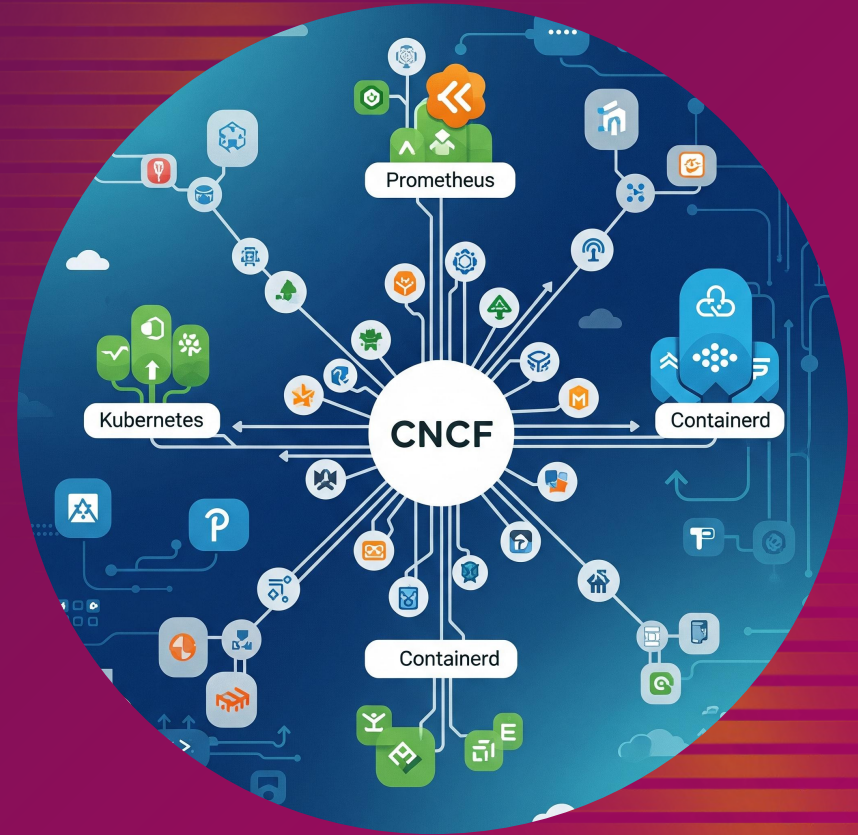
- SDV ecosystem is growing rapidly
- Helps new community members navigate the ecosystem
- Need for structured transparency
- Showcases the diverse components in the landscape



Complexity without structure slows innovation.

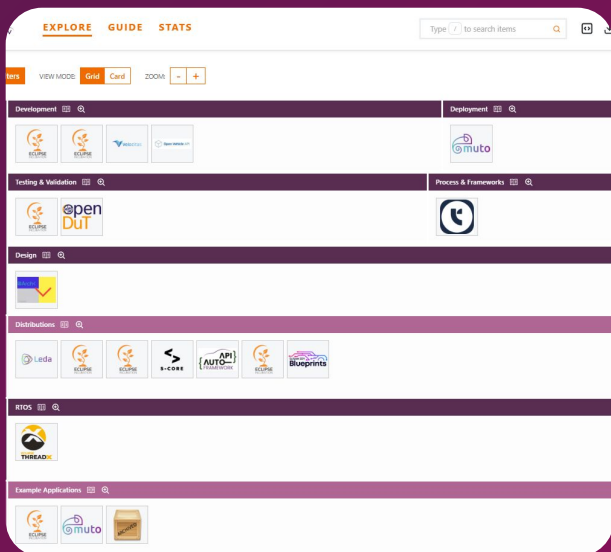
CNCF Success Story

- CNCF Landscape model promotes project adoption
- Helps new users understand the large ecosystem
- Clearly demonstrates community and ecosystem growth
- CI/CD driven
- Ecosystem visibility as strategic instrument



What if we had something similar for SDV at Eclipse?

Eclipse SDV Landscape Project



01 We started the Eclipse SDV Landscape Project

03 The project will increase ecosystem visibility and growth

02 Helps new community members navigate available projects

04 Focus on documenting the diverse SDV components

Generated from existing data!

<https://projects.eclipse.org/projects/automotive.sdv-landscape/>



Who is starting this?

- One Task of the Technical Advisory Committee
 - <https://eclipsesdv.org/committees/>
- To give a architectural vision of the SDV WG

Eclipse SDV Landscape

Overview Downloads Who's Involved Developer Resources
Governance Contact Us Edit

Active Member Companies

Member companies supporting this project over the last three months.

[Is your logo missing?](#)

Project Leads



Christian
Heissenberger



Daniel Krippner



Pete LeVasseur

How Eclipse SDV Landscape Works

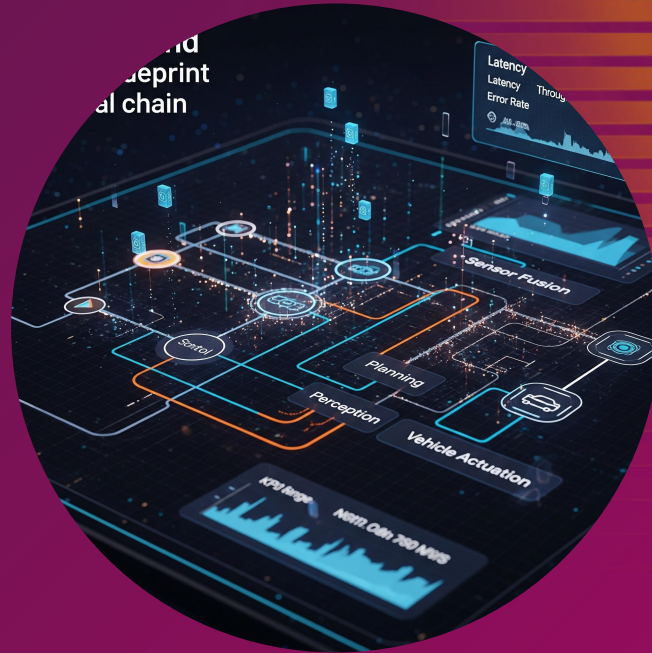
- The landscape is visualized on an **interactive website**
- Components are classified by their SDV function
- Projects are added **automatically**
- Project data is sourced directly from **your** Project page



Eclipse SDV Landscape: Already Live!



Website



GitHub Repo

SDV Demo: Backup



SDV PROJECTS

Tooling Devops	Development	Deployment
	   	
	Testing & Validation	Process & Frameworks
	 	
	Design	
		
Distributions and Frameworks	Distributions	
	      	
RTOS	RTOS	
		

SDV Demo: Backup



EXPLORE

GUIDE

STATS auto

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AI

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Service Mesh

Communication Protocols

Digital Twin

Runtime and Orchestration

Workload & Container Orchestration

Distributions and Frameworks

Distributions

RTOS

RTOS

Example Applications

Example Applications

Service Fabric and Communication

This category describes the foundational communication and integration layer of Software-Defined Vehicles. It ensures that services, ECUs, and external systems can communicate efficiently, securely, and at scale.

Service Fabric and Communication components are essential for building modular, distributed, and service-oriented SDV platforms.

Middleware & Frameworks

Middleware abstracts underlying vehicle hardware and communication mechanisms. It provides unified APIs for data access, service interaction, and vehicle functions.

Frameworks in this subcategory form the basis for portable and service-oriented vehicle software architectures.

Eclipse SDV Projects	Keywords
<ul style="list-style-type: none">Eclipse p3com (Incubating)Eclipse eCAL (enhanced Communication Abstraction Layer) (Incubating)Eclipse Kuksa (Incubating)Eclipse Chariott (Incubating)Eclipse Zenoh (Incubating)Eclipse Heimlig (Incubating)	-



Service Mesh



SDV Demo: Backup

[EXPLORE](#)[GUIDE](#)[STATS](#)

PROJECTS

Distribution by maturity



Distribution by category and subcategory

Category / Subcategory	Projects
▼ AI	1
▼ Distributions and Frameworks	7
▼ Example Applications	2
▼ RTOS	1
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Expanding the Eclipse SDV Landscape



- Focus on expanding project information
- Integrate AGL and other Open Source initiatives
- Categorize new areas of SDV technology actively
- Continuously improve visualization and user experience

YOU are needed! NOW!

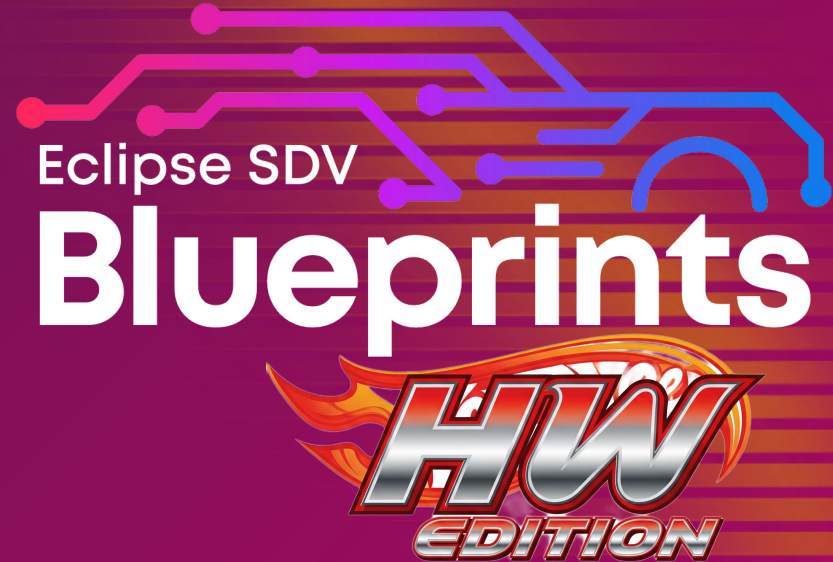


- Contribute project data to enhance visibility now
- Provide feedback on categorization and workflow process
- Help drive the future of the Eclipse SDV ecosystem
- Enhance the SDV Landscape workflows and scripts with your Pull Request!

WE NEED YOU!

Tomorrow: From Blueprint to Bits

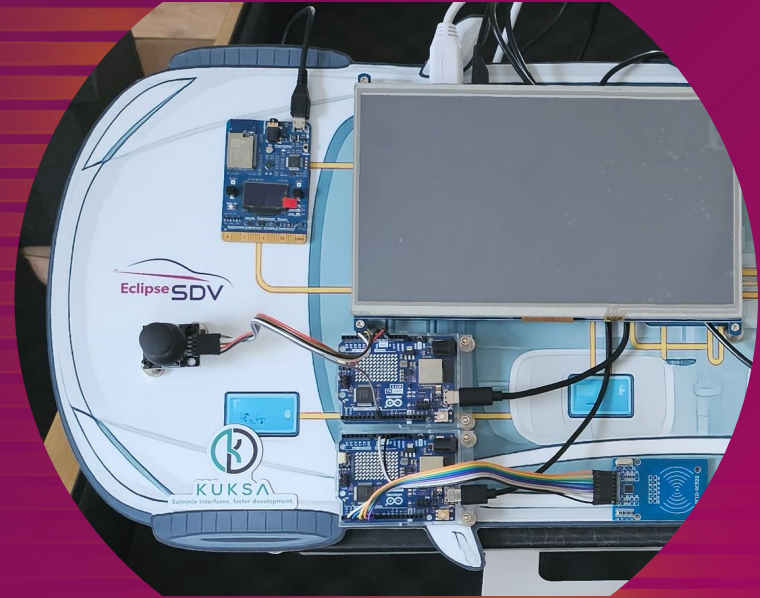
- **An SDV Hands-On Community Workshop**
- A signal chain from driver input over MQTT and Kuksa Databroker
- down to CAN bus actuation, and all the way up to fleet analytics with InfluxDB and Grafana



And yes

....

there will be blinking LEDs!





Thank you!