



Eclipse SDV: open source, open collaboration and beyond

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Agenda

- 2025 vs. 2026: what happened since last AOSS?
- Eclipse SDV vision for a way forward
- Eclipse SDV: Did we finish the game?

2025 vs 2026 - Pool time!

**Your opinion: what have been the major advancements in
Eclipse SDV since the last AOSS?**



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Global expansion

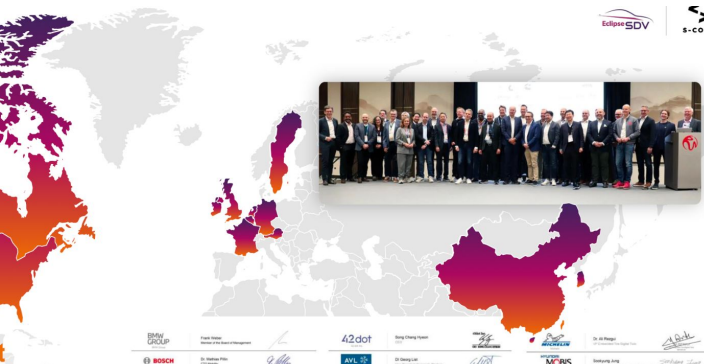
From a European to a global open source engagement



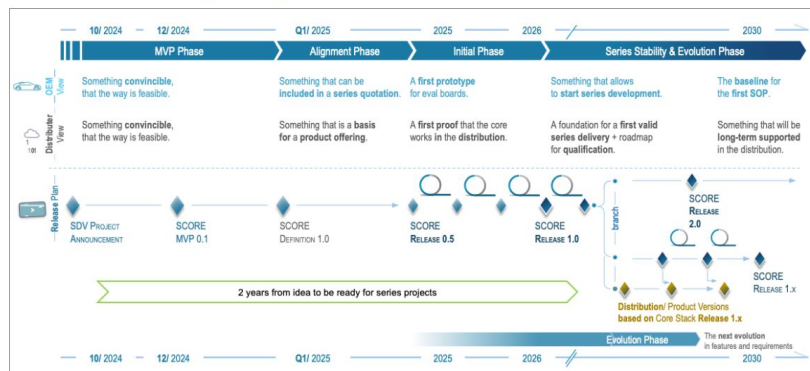
5 Initial S-CORE members

11 International
signees of
OSS MoU

34



2026: releasing the platform



2025 vs. 2026: Highlight projects beyond Eclipse SCORE

Eclipse OpenSOVD and Eclipse TSF

Project Highlight: Eclipse OpenSOVD

Enabling a Modern Diagnostic Foundation

- New project initiated by Mercedes, emerged from Eclipse S-CORE as response to lack of open-source automotive diagnostics stack
-
- Core Value Proposition: Defines and standardised vehicle data access interfaces
 - Enables open, scalable diagnostics for SDV ecosystem
 - Creates synergy between standard and implementation
- Based on ISO 17978, making it standardised, credible, suitable for open-source collaboration
- The launch of Eclipse OpenSOVD exceeded all expectations, drawing broad participation from OEMs, suppliers, and technology leaders - More than 100 participants in the kickoff meeting
- Aiming to become the default open diagnostics layer for Eclipse S-CORE



Project Highlight: Eclipse Trustable SW Framework

Why do you trust your software

Eclipse Trustable Software Framework project focuses on practical approaches to understanding risks in software engineering and systematically tracks a set of statements.

The Trustable Tenets:



1. Provenance Know where it comes from, who is responsible, and have confidence in them	4. Expectations Know what it must do, and what it must not do
2. Construction Know how to build it - reproducibility - from source	5. Results It does what it must do, and does not do what it must not do
3. Changes Upgrade it and be confident it will not break or regress	6. Confidence Measure and declare our confidence that it will not cause harm

11/2025 ASIL D Assessment: Eclipse TSF achieved a successful assessment by exida, proving open source can meet the highest automotive safety levels.

NEW! Within the Eclipse Foundation Functional Safety Process Operations Guide, EMO has approved Eclipse TSF for use by Functional Safety Projects

2025 vs. 2026: Highlight projects beyond Eclipse SCORE

Eclipse Ankaaios reaches maturity

ANKAIOS

FROM INCUBATION TO MATURITY.

Eclipse Ankaaios just graduated. 🎓

- 3 YEARS
- 2,000+ COMMITS
- 12 RELEASES

Now officially "mature" within the Eclipse Foundation.
Stable APIs. Predictable releases. Real-world adoption.

v1.0.1 just dropped
with Debian/Ubuntu packages
and a Yocto layer.

The barrier to bringing container orchestration into vehicle platforms just got a lot lower.

yocto PROJECT

ankaaios 1.0.1

A futuristic car silhouette composed of stars and light trails, representing the automotive focus of the project.

Proud of what [Holger Dormann](#) and the entire community have built. This is open source moving from idea to infrastructure.

CONTAINER ORCHESTRATION	SAFETY & SECURITY	CLOUD-NATIVE BY DESIGN	AUTOMOTIVE READY

#EclipseAnkaaios #SDV #OpenSource #Automotive #ContainerOrchestration

2025 vs. 2026: Notable initiatives

An AI supported toolchain and a commercial vehicle blueprint

- **AI supported DevOps Toolchain**

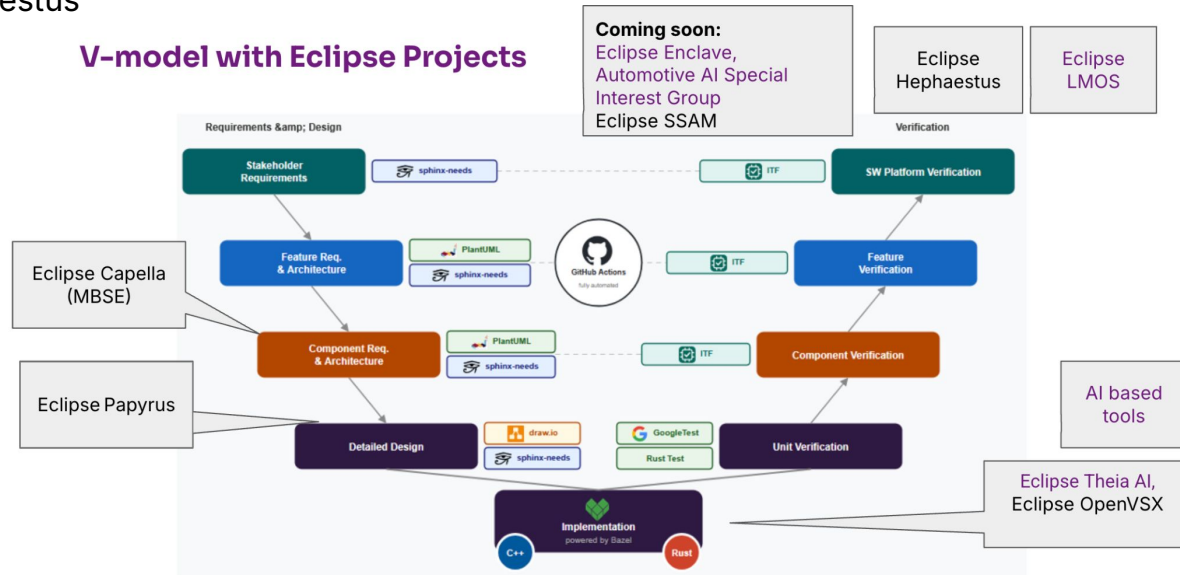
- Automotive AI Special Interest group to be kicked off
- Exploiting synergies with Eclipse tool projects (eg Theia AI, Conclave)
- AI4SDV EU project funded
- Onboard Eclipse SDV Hephaestus

- **Commercial Vehicle Initiative**

- Eclipse SDV Blueprint tailored to commercial vehicles applications



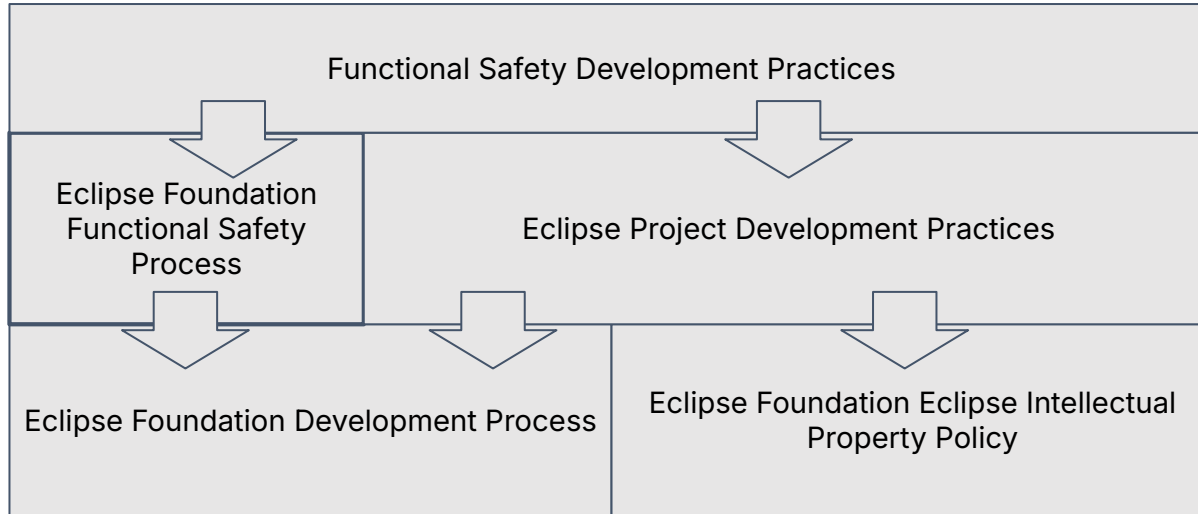
V-model with Eclipse Projects



2025 vs. 2026: Notable initiatives

Introducing the Eclipse Functional Safety Process and Guidelines

- It's an addition to the Eclipse Development Process, dedicated for Functional Safety Projects
- Setting up a Functional Safety committee
- Supporting the Eclipse SCORE process to achieve assessment



2025 vs. 2026: Notable initiatives Strengthening the European roots

- Engage with European Connected and Autonomous Vehicle Alliance (ECAVA)
- Explore similar ecosystem such as UAVs to promote Eclipse SDV projects
- Mention of Eclipse SDV in the EU OS strategy

ECAVA'S FOCUS IN THE 4 WORKING GROUPS



Software-Defined Vehicles:

Common AI-enabled software tools and open-source building blocks for digital vehicles.



AI and Data:

Data pooling, foundational AI models and a European autonomous driving stack.



Automotive Hardware:

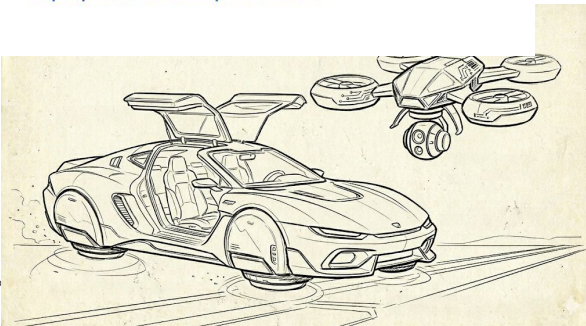
High-performance computing platforms, AI accelerators, chiplets and open-source standards



Autonomous Vehicle Deployment:

Cross-border piloting and real-world deployment on European roads.

Not so different
after all



Eclipse SDV

**European Tech
Sovereignty
Package highlights
Eclipse SDV as a
model for industrial
collaboration**

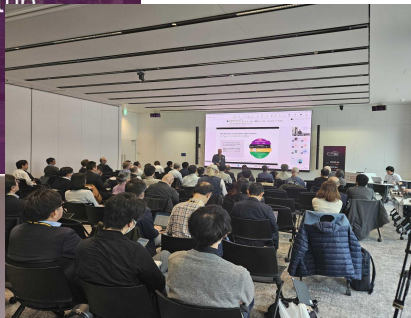
2025 vs. 2026: Eclipse SDV goes global

Shifting gears in Asia



Eclipse SDV Community Meetup South Korea

4 December 2025 | 8:30 AM - 18:30 PM KST
Seoul, South Korea



Eclipse SDV Community Meetup: Bangalore 2026



Tuesday, 19 May, 2026

From SDV to AIDV,
Together with Eclipse SDV



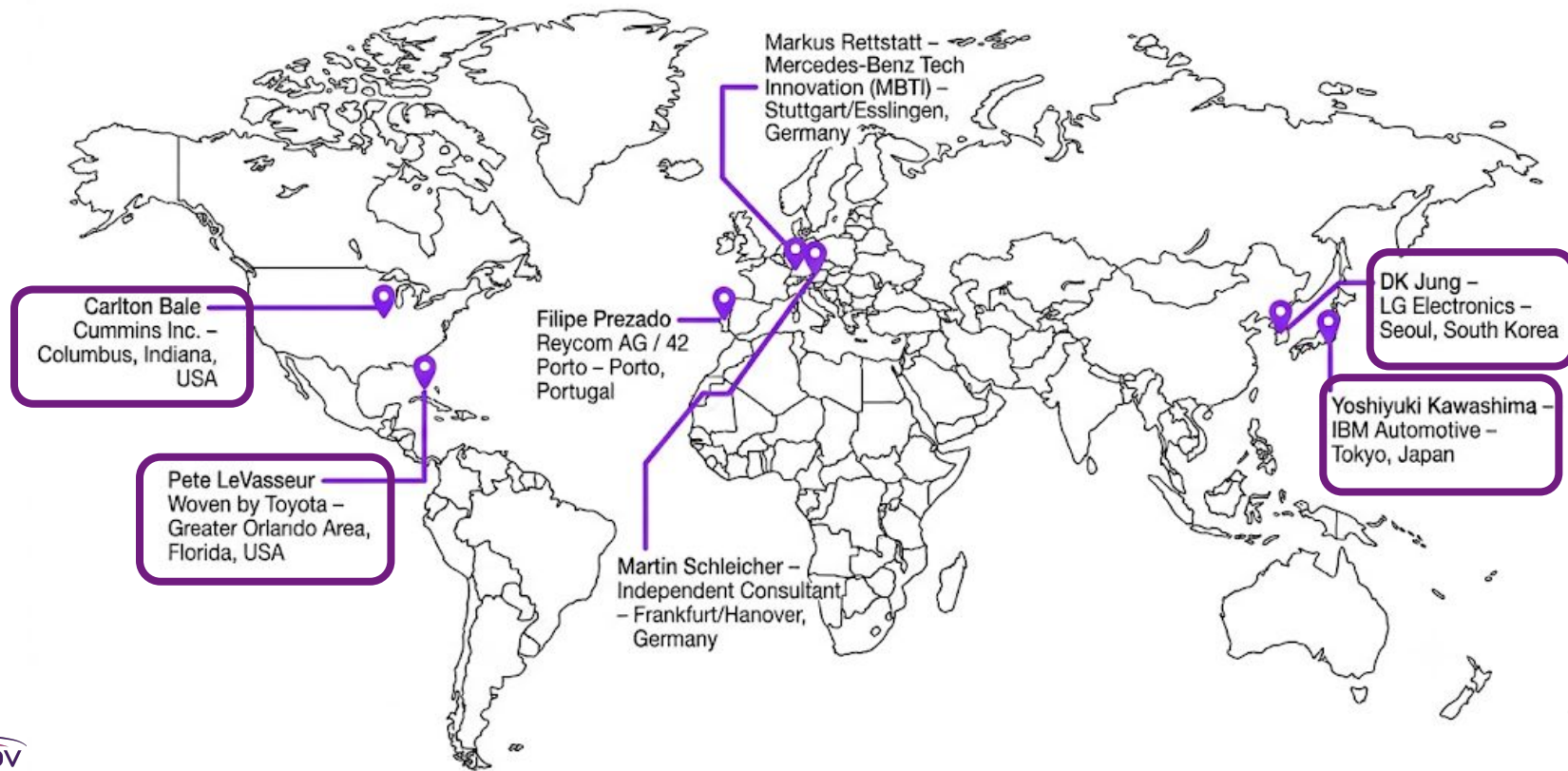
Join us for the Eclipse SDV Community Meetup Japan co-hosted by Bosch Group

11 December 2025 | 9:30am to 9pm GMT+9
Bosch Corporation Headquarters, Yokohama, Japan



2025 vs. 2026: Eclipse SDV goes global

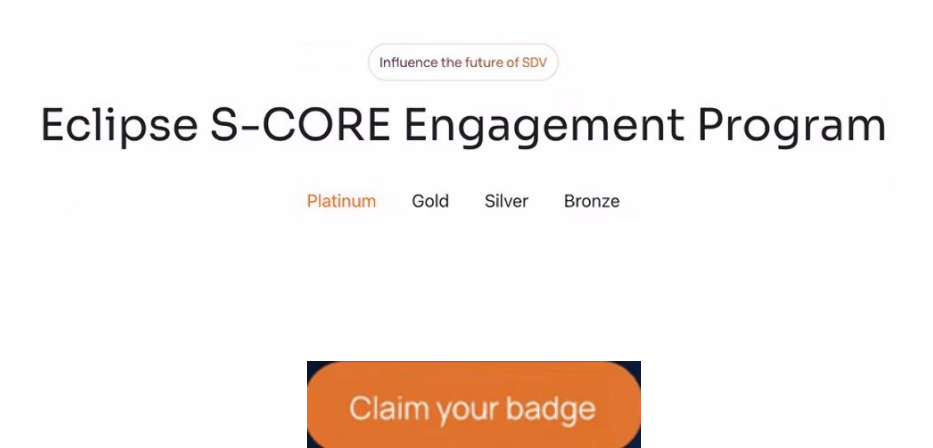
Global ambassadors



2026 and Beyond: Eclipse SDV vision for a way forward

- Eclipse S-CORE v1.0 is a success with broad **adoption**
- Leverage multiple **building blocks**: such as Eclipse **OpenSOVD** for diagnostic or **Eclipse uProtocol** as a service mesh
- Passenger car and **commercial vehicle** OEMs work together for a heterogeneous and sustainable ecosystem
- Global ecosystem involving non EU centric initiatives such as Jaspar
- Open source **modular cross project toolchain** infrastructure delivers artifacts needed for project safety assessment (development in Eclipse Hephaestus, supported by AI4SDV)
- Frameworks adopted to assess **safety and security** risk consistently and in a transparent manner (eg Eclipse TSF and Eclipse SCORE process), aligned with the Eclipse Functional Safety Process
- Resilient and sovereign ecosystem with **clear IP policy**, shared by members and contributors

Eclipse SCORE levels of Engagements program - Claim your badge!





ECLIPSE SDV

OPEN SOURCE

DID WE
FINISH THE GAME?

▶ CONTINUE JOURNEY

NEW GAME+

CONTRIBUTE

COLLABORATION



GOAL?



COMMUNITY



INNOVATION



OPEN SOURCE



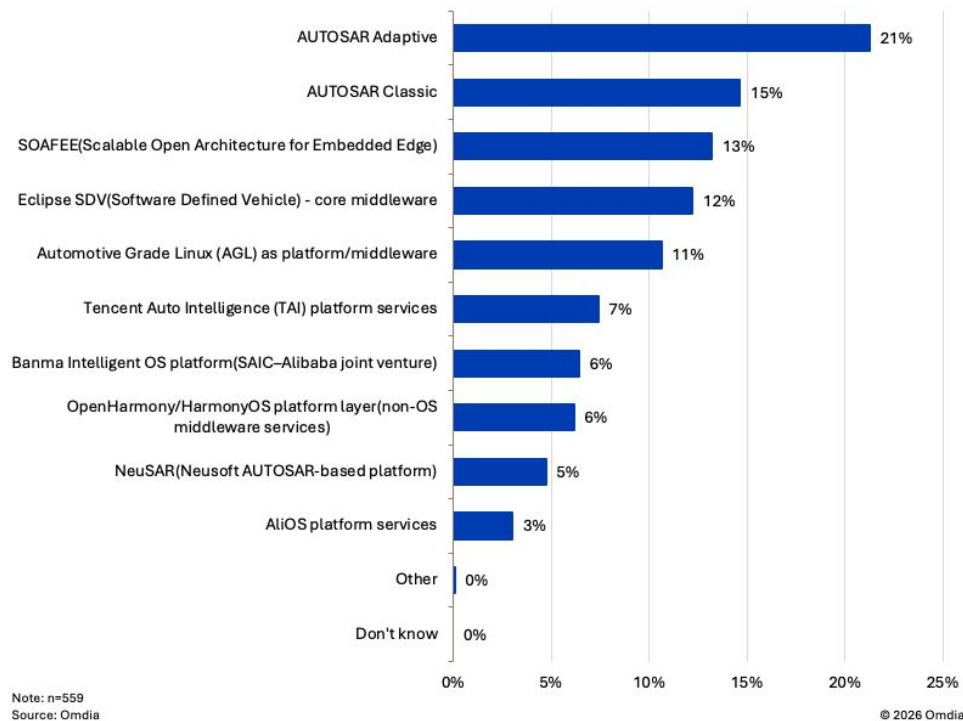
ECLIPSE SDV
OPEN SOURCE

Did we finish the game? Dimension 1



An open source projects ultimate goal: Adoption

Q19: In 2030, which platform/middleware will be most widely adopted by OEMs in global production?



Demographics:

559 automotive industry professionals across:

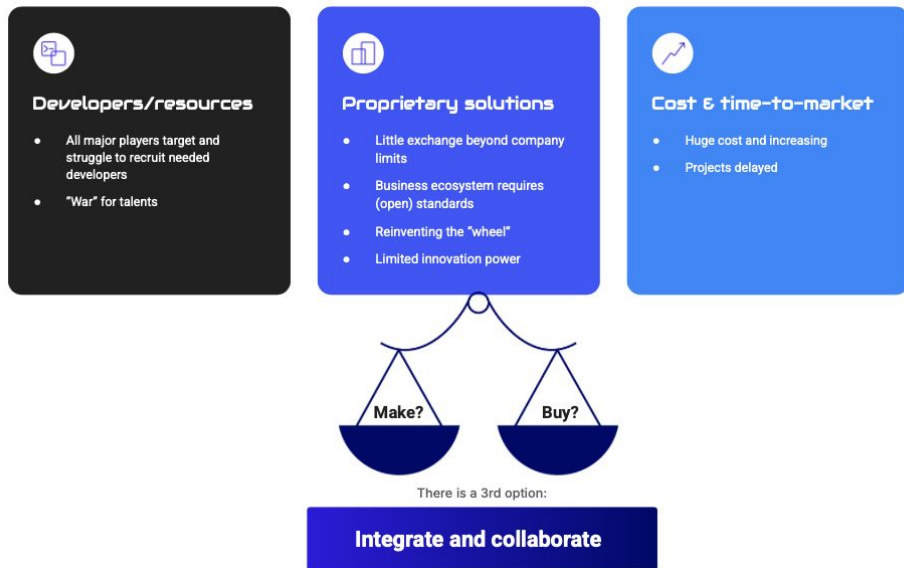
- automakers (50%)
- Tier 1 suppliers (31%)
- Tier 2 suppliers (19%)

seven major markets

- US, UK, Germany, France, Japan, China, and Canada)

deployed in March/April 2026

Did we finish the game? Dimension 2



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Often history is a good teacher, let's look back some years...

Throwback: Enterprise IT OSS experience

- 1983: Richard Stallmann starts GNU



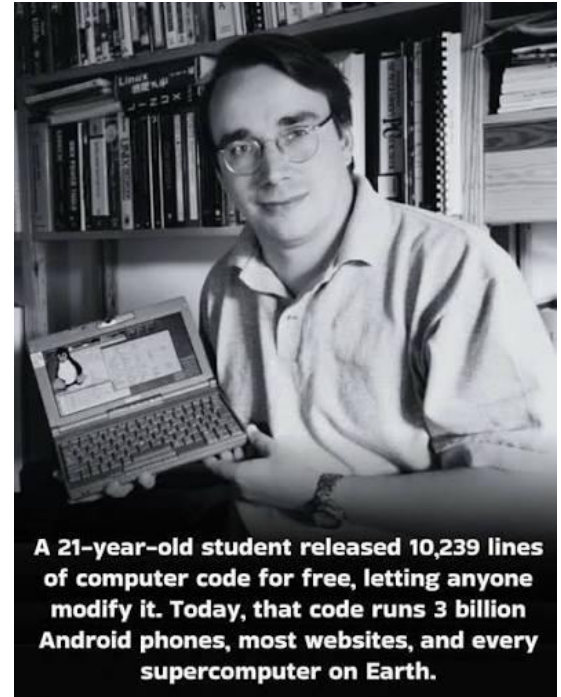
- 1998: OSI and the open source definition

OSI's Open Source Definition

- free redistribution
- source code availability
- derivatives allowed
- no limitations of who may use it or for what
- no additional license in place
- license must not depend on distribution format, technology, presence of other works



- 1991: Linus Torvalds starts Linux

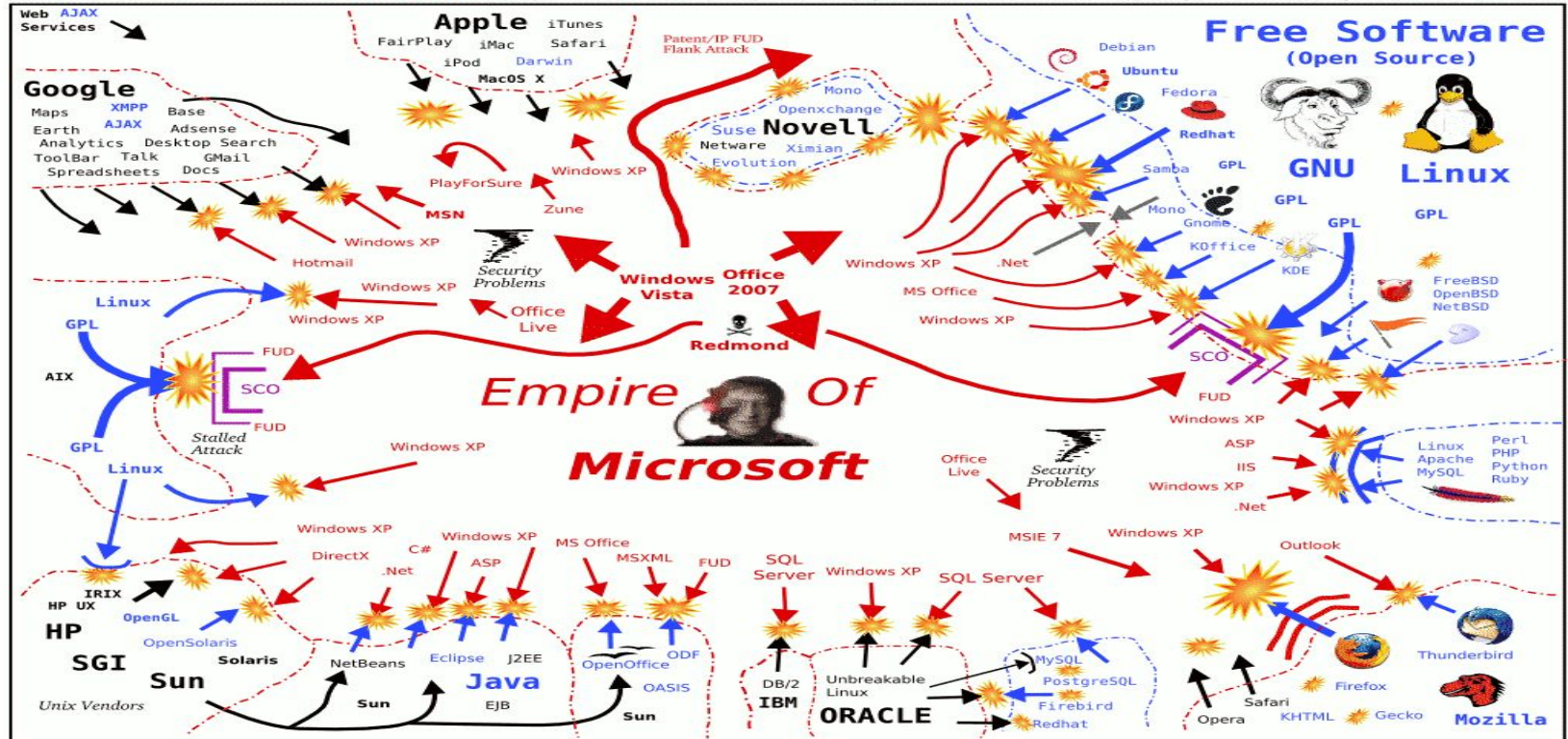


A 21-year-old student released 10,239 lines of computer code for free, letting anyone modify it. Today, that code runs 3 billion Android phones, most websites, and every supercomputer on Earth.

Meanwhile in Redmond

Software Wars

http://mshiltonj.com/software_wars/ All trademarks are property of their respective owners. Inspired by Andy Tai <http://atai.org/>
2006-12-28 Copyright 2006 - Steven Hilton <mshiltonj@gmail.com> Permission to copy is granted if copyright notice is preserved.



FUD as a typical answer to open source initiatives



Then things changed and business went from license to service

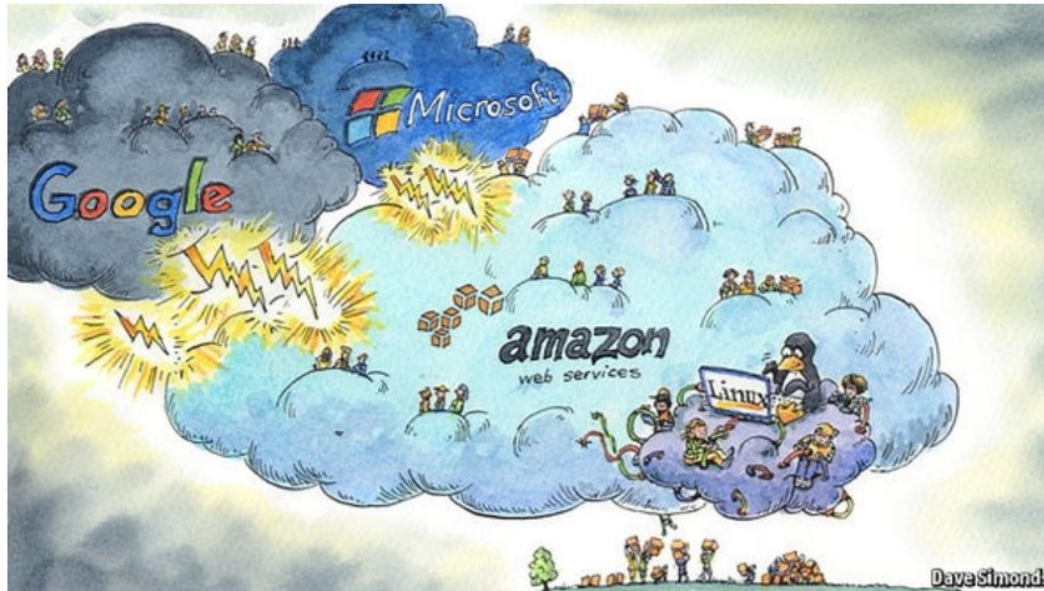
Linux and AWS

Aug 27th 2016

The
Economist

Cloud chronicles

How open-source software and cloud computing have set up the IT industry for a once-in-a-generation battle



Today all IT companies use Open Source as a strategic tool



Home » Application Development » Microsoft .Net

Microsoft .Net's execution engine goes open source

techradar.pro IT INSIGHTS FOR BUSINESS

Microsoft's open source ambitions pick up speed

InformationWeek

NEWS

3/11/2016
03:06 PM



Dawn
Kawamoto
News

SOFTWARE **Ballmer: Linux No Longer A Cancer**

Former Microsoft CEO Steve Ballmer, who infamously once declared Linux a "cancer," has now had a change of heart and applauded the company's latest moves to embrace the open source platform.

And governments explore the strategic impact of SW

Huawei

● This article is more than 7 years old

Google blocks Huawei access to Android updates after blacklisting

Reported move could hit Huawei Technologies' ability to run phone operating system

Nadeem Badshah and Lily Kuo in Beijing

Mon 20 May 2019 11:34 CEST

Share

Prefer the Guardian on Google



A woman uses a smartphone outside a Huawei store in Beijing Photograph: Ng Han Guan/AP

Google has suspended Huawei's access to updates of its Android operating system and chipmakers have reportedly cut off supplies to the Chinese telecoms company, after the US government added it to a trade blacklist last week.

Google said it was complying with an executive order issued by Donald Trump and was reviewing the "implications", later adding that Google Play - through which Google allows users to download apps - and the security features of its antivirus software Google Play Protect would continue on existing Huawei devices. New versions of its smartphones outside China

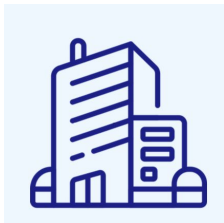
What's new today: "open source washing"



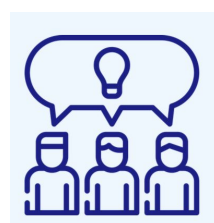
Open Source != Open Source



Solo



Single Vendor



Open Collaboration

Description

One or two programmers control code, decisions, support

Contributing

Either extremely easy or extremely hard

Support

Usually very responsive or abandoned

Description

Open sourced by a company, employees as contributors

Contributing

Usually difficult

Support

Reliable support obtained through support contracts with sponsoring company

Description

Formal organisation open source projects. Often projects critical to several large companies.

Contributing

Formal process, meritocracy

Support

Sponsoring companies providing paid support
... ..

And that's why it was an educated decision to build Eclipse SDV in open collaboration!

Take-away

OPEN SOURCE: MORE THAN A DEVELOPMENT MODEL. A STRATEGIC TOOL.



ALIGN WITH BUSINESS GOALS

Support digital transformation and long-term strategy.



BUILD & STRENGTHEN ECOSYSTEMS

Collaborate, contribute and co-create value.



REDUCE RISKS

Enhance security, transparency and compliance.



NO
VENDOR
LOCK-IN



COMMUNITY &
ECOSYSTEM



INNOVATION &
ACCELERATION



TRANSPARENCY &
TRUST



FLEXIBILITY &
CONTROL



COST
EFFICIENCY



TALENT &
ADOPTION



DRIVE COMPETITIVE ADVANTAGE

Innovate faster and respond to market changes.



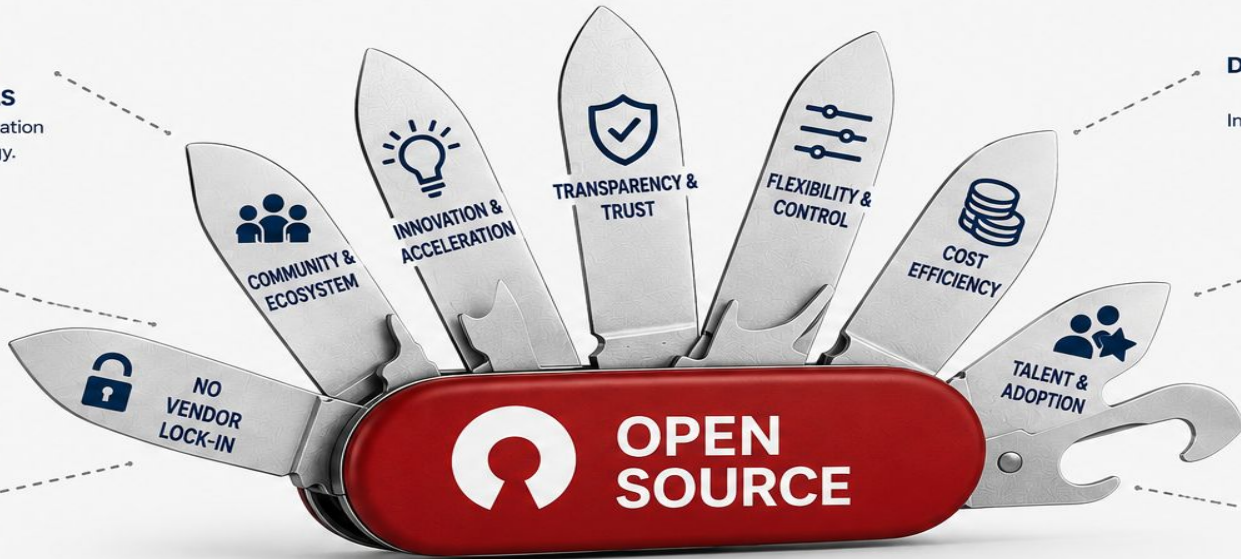
EXPAND MARKET OPPORTUNITIES

Reach new markets and industries.



DEAL WITH GEOPOLITICAL CHALLENGES

Strengthen independence, resilience and control in an increasingly complex world.



OPEN SOURCE IS A STRATEGIC ENABLER FOR:



INNOVATION
Eclipse SDV



RESILIENCE



GROWTH



COLLABORATION



SOVEREIGNTY

IT'S NOT JUST HOW YOU BUILD SOFTWARE.
IT'S HOW YOU BUILD THE FUTURE.





ECLIPSE SDV

OPEN SOURCE

DID WE FINISH THE GAME?

► CONTINUE JOURNEY
NEW GAME+
CONTRIBUTE

THE GAME IS NOT FINISHED.
THIS IS JUST THE START OF OUR JOURNEY.
MANY PLAYERS. ONE MISSION.

PLAYERS: 59

LOADING MORE PLAYERS...



WE KEEP BUILDING.
TOGETHER.

INNOVATION



COLLABORATION



OPEN SOURCE



Eclipse SDV Hackathon - Chapter #4

October 6–8, 2026 | Friedrichshafen, Germany



Format: Dual-track competition featuring an Innovation Track (business case focus) and a Freestyle Track (project integration focus).

Team Structure: Form teams of up to 5 people (capacity is capped at 60 attendees total).

Ongoing weekly planning:

- **Hack Coaches meetings** established focused on building the challenges and the evaluation systems
- **Jury formed**
- **Planning sessions with the host**
- **Internal planning** (logistics, promotional activities, etc.)
- Follow us on the refreshed [website](#), [Eclipse SDV LinkedIn](#) page, Slack channels: Join the [#hackathon2026](#) and [#hackcoaches-2026](#)

