OPEN SOURCE RELEVANT INITIATIVES

Criteria/ consortium	AUTOSAR	SOAFEE	ECLIPSE SDV	RED HAT
GOAL	 Standardized software framework and architecture through specifications for automotive 	 Cloud-native architecture with corresponding open-source reference implementations 	Open technology platform including open-source, modular SW and frameworks	 Linux-based in-vehicle platform, ASIL-compliant open source
OPEN SOURCE STRATEGY		 Open-source as a reference implementation allows collaboration and early prototyping using a SOAFEE framework 	 Open-source SW and standards for In-Car SW stack, Cloud backend and associated tooling 	 Open source versions of kernel and core products with "enterprise-ready" business model
OPEN ARCHITECTURE	• Open architecture for members	 Arm related Software architecture for prototypes (updateable) 	 External components from various providers can be integrated in different architectures 	Linux based open architecture
SOFTWARE STACK	 Implemented by members 	 Blueprints on a functional level based on use cases 	Overall governance allows community to create and build projects	 Supports open-source projects and provides enterprise-grade support
DOMAIN INFRASTRUCTURE	IVI ADAS/AD EV Body	IVI ADAS/AD EV Body	IVI ADAS/AD EV Body	IVI ADAS/AD EV Body
SECURITY & SAFETY	 Safety & security are focused in the specifications 	 Safety & security are key requirements for the architecture 	Developed by communities and supported by Eclipse SDV	 Linux is certified security proofed platform, ASIL Certification targeted
CLOUD	 Cloud interoperability via joint activity by AUTOSAR and COVESA (announced 04/23) 	 Cloud based orchestrator (digital twins, dynamic management cloud - vehicle, tooling) 	 Develop and support cloud-native technologies 	Cloud-native development platform (Cloud-Edge-Vehicle platform)
BUSINESS MODEL	 Non-profit organization; Members with own licence business model for implementation 	 Business opportunities in SDV and Ecosystems on Arm 	 Non-profit organization, financed through members and user community 	 Flexible Subscription-based licensing models for lifetime and lifecycle maintenance, Enterprise services and SLA
OEM USAGE	 Widely implemented state of the art solution (> 20 OEM partner) 	 Requirements from OEMs on architecture level 	 Large development community with several OEMs and 1-Tiers 	 One committed customer In the funnel: multiple OEMs across Europe, Japan and China
OEM BENEFIT	 Independent of suppliers High maturity because of wide OEM usage 	 Use of an existing framework 	 Use of open source components 	Subscription based services and maintenance
METHODS, TOOLS & PROCESSES	 Provides a standardized infrastructure and methodology for automotive software development. 	 Priority tooling for SOAFEE framework and architecture in line with Open Cloud Initative 	 Some active projects in place 	 Provides safety-certified tools & infrastructure
MAINTENANCE & GUARANTEE	Maintenance Guarantee 🔀	Maintenance 🗙 Guarantee 🗙	Maintenance 🗙 Guarantee 🗙	Maintenance 🖌 Guarantee

