

# AUTOSAR NA User Group Meeting Q2

Carmine De Iesu 23 May 2024

N.A. UG meeting

Virtual



















# Agenda

- Status Opening Strategy 5 mins
- Future challenges: Market feedback 10 mins



# Agenda

- Status Opening Strategy
- Future challenges: Market feedback



# The AUTOSAR Opening Strategy

A Set of Measures to Meet the Challenges

- ✓ Regional Representations
- ✓ 3rd Party Collaboration
- ✓ Premium Partner Plus
- Derived Applications
- Easier Access to a limited scope of AUTOSAR Work
- Automotive API
- AUTOSAR Open Framework

# Derived Applications • Mobility infrastructure • Agricultural machinery • Maritime Shipping • Railway • Urban Mobility • Industrial Automation • Building Automation • Household appliance • Medical technology

# The AUTOSAR Opening Strategy

Software Defined Vehicle (SDV) - Easier Access

- The new "Associate Partner Light" variant
  - For free.
  - Exploitation rights for very limited scope of AUTOSAR standards.

### Easier access to provide AUTOSAR compatible components or products **Applications** Applications Application Layer Application Layer Application Layer RTE RTE **AUTOSAR** AUTOSAR AUTOSAR Adaptive **AUTOSAR** AUTOSAR Basic Basic Platform Classic Classic Software Software Platform Platform e.g. SOME / IP



### Automotive API – Release Status

### **AUTOSAR Open Project**

- An explanatory document, containing:
  - The definition of the Automotive API
  - An introduction to VSS and VISS
  - Use cases

### **AUTOSAR Release R24-11**

- Requirements and software specification for the AUTOSAR Automotive API
- A technical report for the VSS representation in AUTOSAR

### AUTOSAR – COVESA Collaboration

Strong strategic interest from both organizations to collaborate All legal prerequisites in finalization for starting a joint Open Project



# The AUTOSAR Opening Strategy

Software Defined Vehicle (SDV) - Enable Collaboration

- The new AUTOSAR Open Framework (AOF)
  - to enable open collaboration in the SDV ecosystem considering the overarching purpose of AUTOSAR.
  - to **foster an ecosystem** of complementary standards, software implementations, and capabilities
  - to allow new activities beyond the limits of the AUTOSAR Development Cooperation.
  - is open for interested parties from the automotive and related industries to develop joint solutions.



# Agenda

- Status Opening Strategy
- ► Future challenges: Market feedback



### Future Challenges: Market feedback

Where does it come from?

Collected over the last 6 months from different sources at conference and B2B Meetings of:

- AUTOSAR Spokesperson
- AUTOSAR Steering Committee Members
- AUTOSAR Chairperson
- AUTOSAR Executive Board Members



As of our today's awareness, this market feedback depicts the most important challenges with AUTOSAR today



Summary of most critical points market feedback



Value proposition of Adaptive Platform



Optimize AUTOSAR Classic Platform



"API first" principle



\*.arxml as exchange format



**AUTOSAR** and Open Source



Collaboration between the regions



Summary of most critical points market feedback



Value proposition of Adaptive Platform



### Value proposition of Adaptive Platform

- AP Stabilization
- More clearly communicate USPs
  - E.g.: What level of determinism (Safety, Security, Reliability etc.) does AUTOSAR provide compared to other existing solutions?
- Additional Features to form an HPC Stack
  - Containers?
  - Hypervisor awareness?
    - In standard/metamodel/methodology?



Summary of most critical points market feedback





# OC

# Optimize AUTOSAR Classic Platform

- Feature Cleanup
- Simplification of Configuration
- Metamodel Cleanup



Summary of most critical points market feedback





# "API first" principle

# •••

- APIs should never be broken backward incompatible
- If they need to be introduce new API
- "Old API" needs to be in the standard for 3-4 more years
- Lifecycle Status for APIs necessary



Summary of most critical points market feedback



\*.arxml as exchange format



# \*.arxml as exchange format



- Merging \*arxml files is a nightmare
- Hard to human read if something goes wrong and developer needs to investigate the root cause
- Maybe we need a more abstract format/representation? Maybe even in Open Source?
- Maybe we need a different export of the existing exchange formats?



Summary of most critical points market feedback



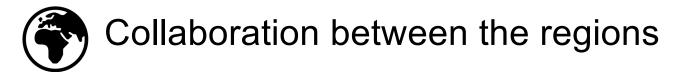


### **AUTOSAR** and Open Source

- AUTOSAR and Open Source does not work due to sublicensing clause
- However there are many AUTOSAR related workproducts on github
- Partner feedback that they would like to have certain things being able to be developed/exchanged via Open Source
- Steering Committee is looking into it with legals



Summary of most critical points market feedback







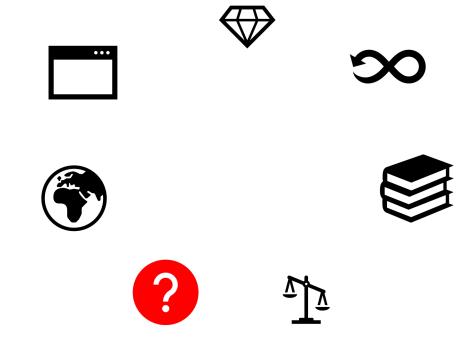
### Collaboration between the regions

- Contribution from non-European Partners not always easy
- Regional (legislative) aspects not always covered
- Do we need more technical regional working groups?
- How do we get our colleagues in the regions effective also contributing to the core of AUTOSAR?



### Additional Feedback and priorities?

Call for Action to provide Feedback



Feedback to Chairperson Team (<a href="mailto:chairperson-team@autosar.org">chairperson-team@autosar.org</a>) or to PL team <a href="mailto:pl@autosar.org">pl@autosar.org</a>!



### Summary

- AUTOSAR technologies are the base for SDV
- AUTOSAR Classic Platform is still evolving
- Market Feedback is important to identify Open Challenges
- Address the Open Challenges as the AUTOSAR Community

















