



# AUTOSAR<sup>TH</sup>

ANNIVERSARY 2003-2023

# HPC Full Stack

Perspective of partners from North American User Group

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17.10.2024

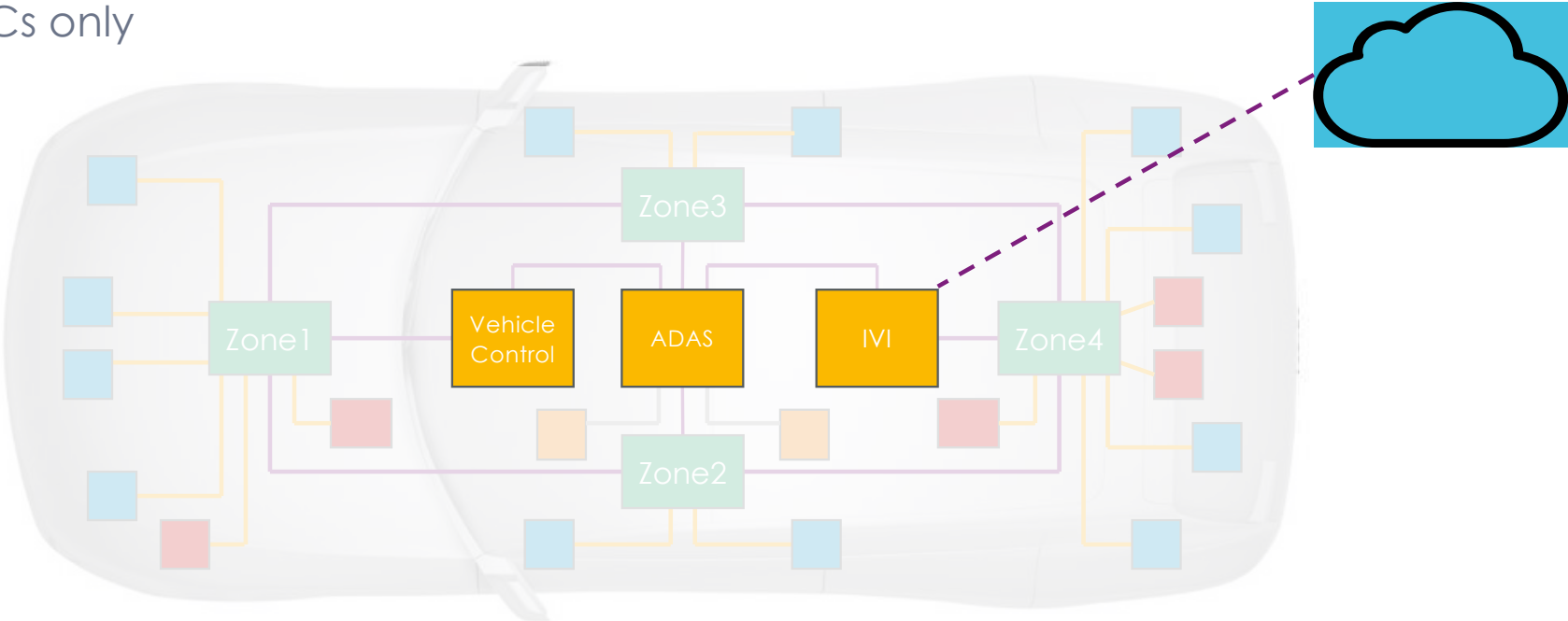
UG-NA Meeting

Troy, Michigan



# HPC Full Stack

Applies to HPCs only



# Motivation for discussing HPC Full Stack

AUTOSAR CP is a full stack for microcontrollers

HPC development organizations are ultimately needing an HPC full stack

HPC development organizations often assume that AP is positioning itself as a HPC full stack solution for HPCs / microprocessors

This leads to mismatch of expectations and AP being under unwarranted critique

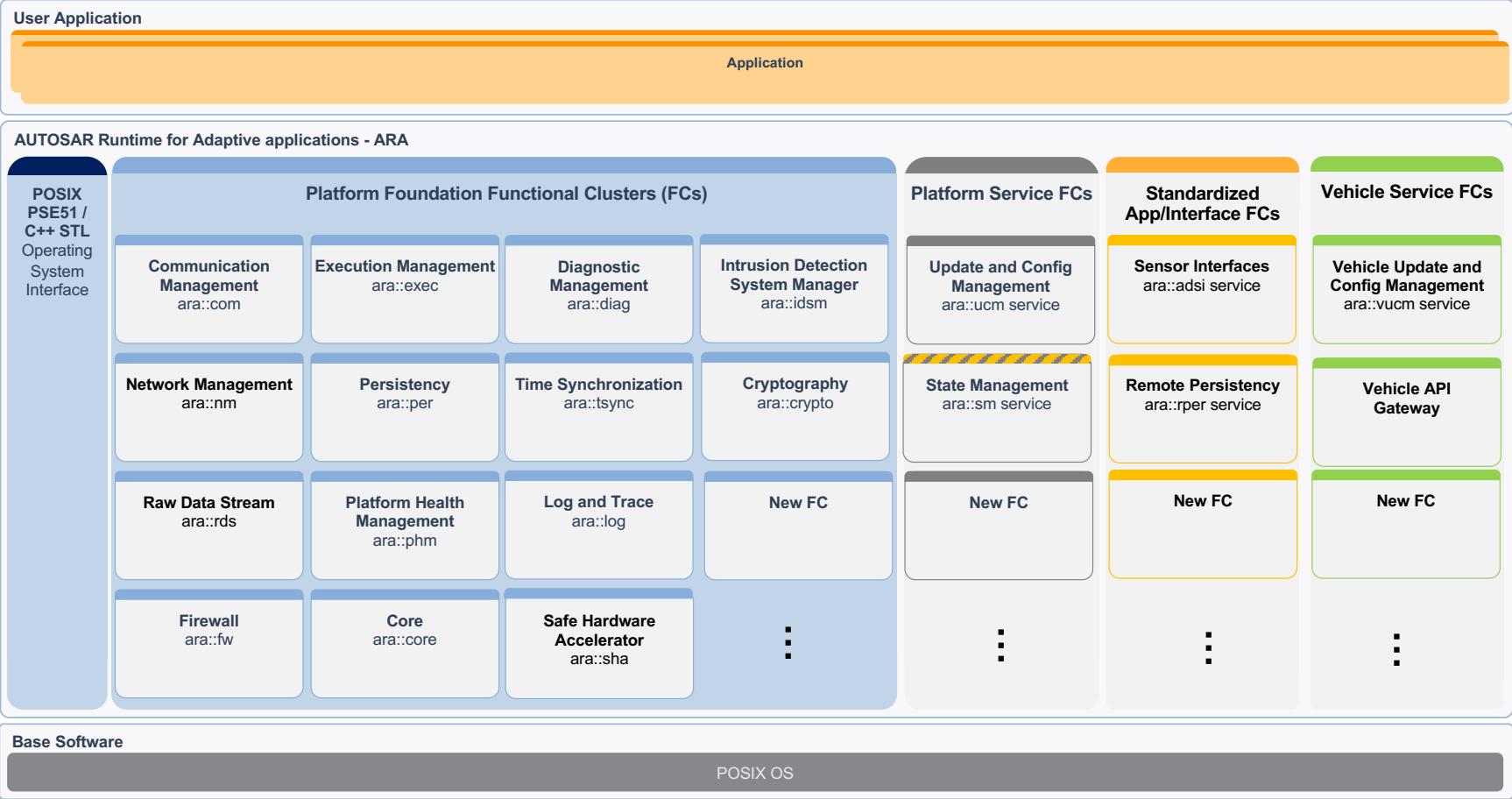
This presentation

- Describes AUTOSARs understanding of an HPC full stack (HPC-FS)
- Asks which elements of the HPC-FS are **out of scope** of AR
- Proposes which elements of the HPC-FS could be **future AR contribution**

## Questions to UG-NA

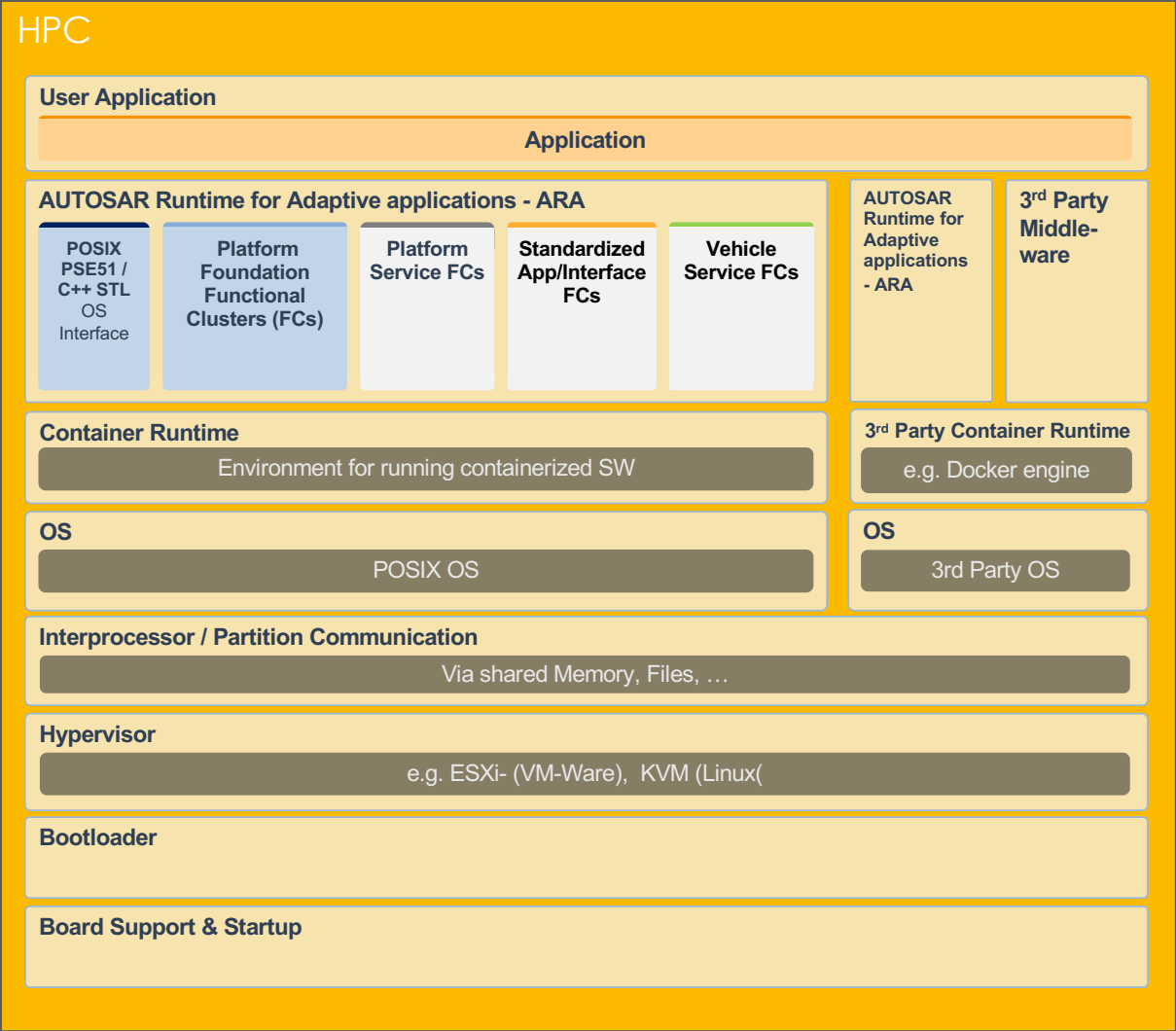
- Shared HPC-FS understanding ?
- Shared understanding of out of scope elements ?
- Shared understanding meaningful future AR contributions ?
- In which standard / OSS project do UG-NA partners see the “center of gravity” for an HPC full stack

# AP Logical Architecture View



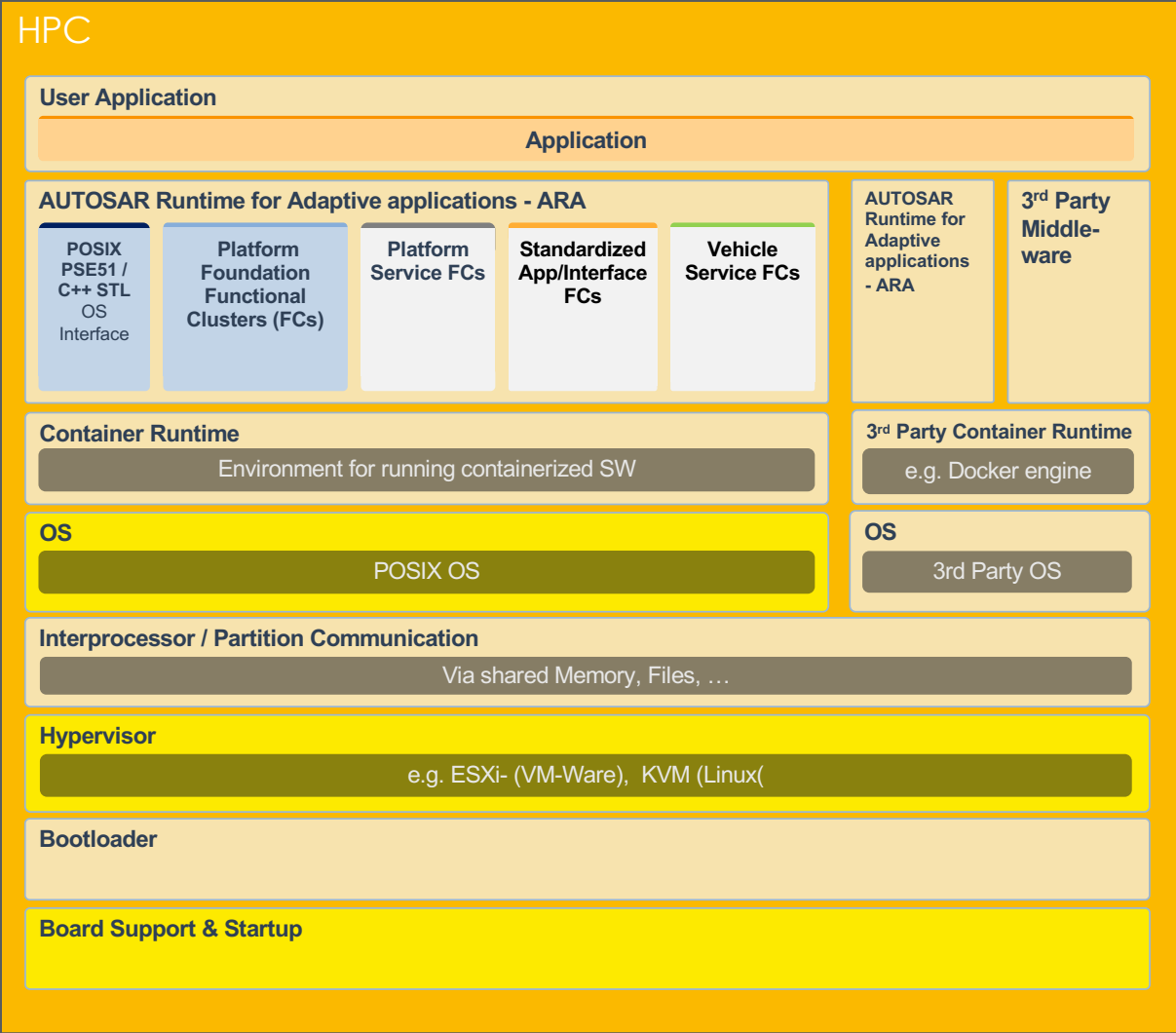
# HPC Full Stack

What about tools, libraries, APIs, SDKs,...



# HPC Full Stack

Out of AR Scope ?

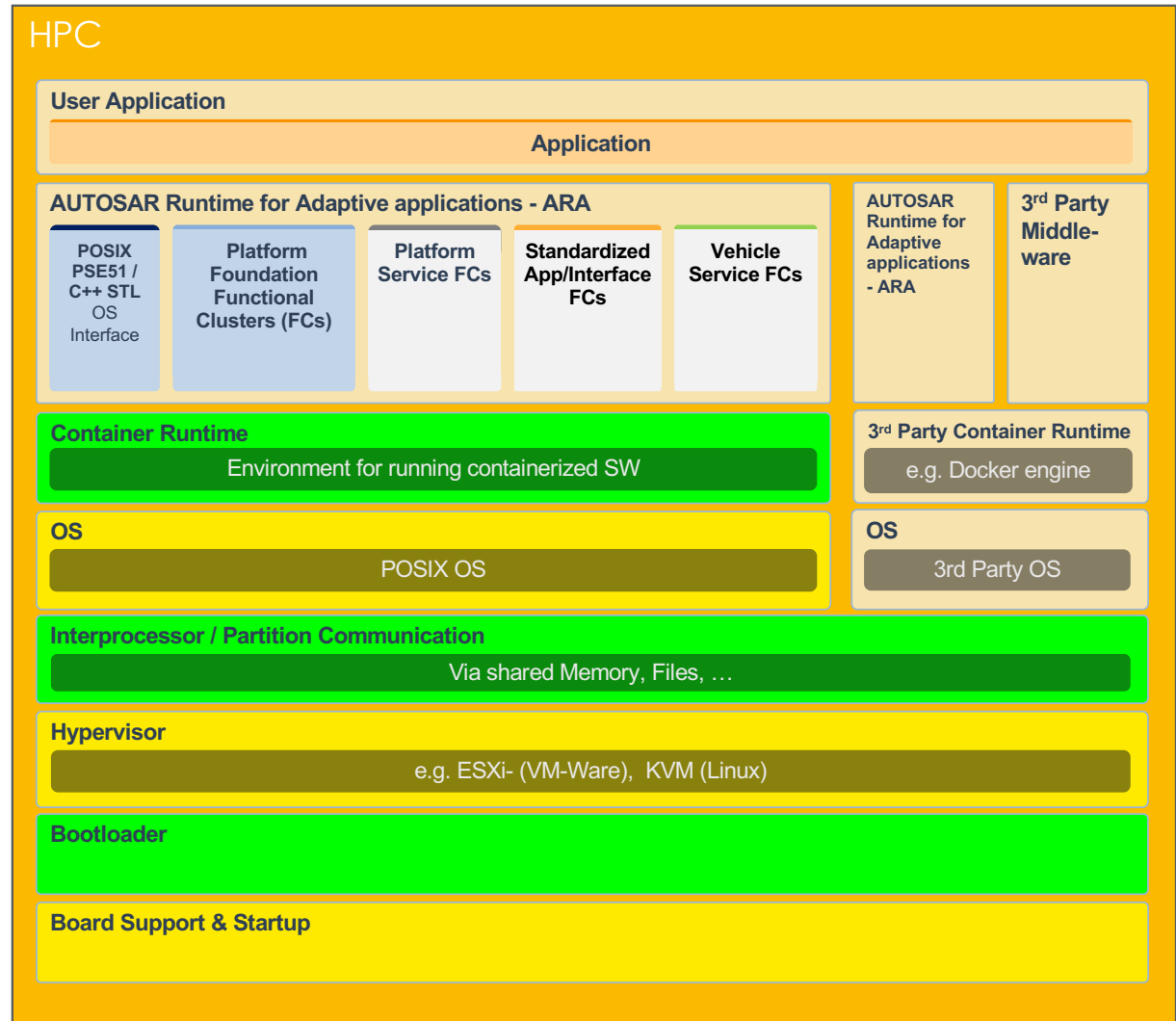


# HPC Full Stack

Future AR Contributions ?

What about tools, libraries, APIs,...

How important is





## Questions to UG-NA

- Shared HPC-FS understanding ?
- Shared understanding of out of scope elements ?
- Shared understanding meaningful future AR contributions ?
- In which standard / OSS project do UG-NA partners see the “center of gravity” for an HPC full stack