

# Artop – AUTOSAR Tool Platform.

## A Shared Platform for AUTOSAR Tool Development.



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# Artop – AUTOSAR Tool Platform.

## Overview.

- Introduction to AUTOSAR
- Motivation for Artop
- Technical Overview
- Artop User Group
- Discussion

# AUTOSAR Introduction.

## Overview.

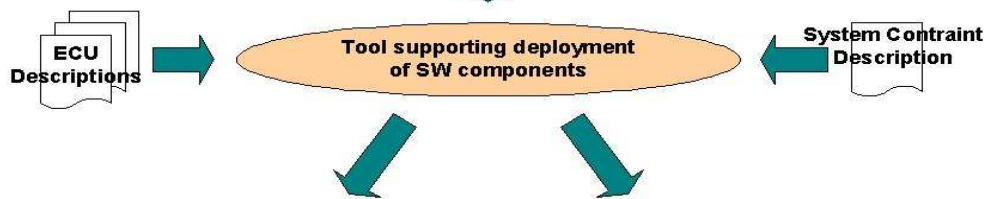
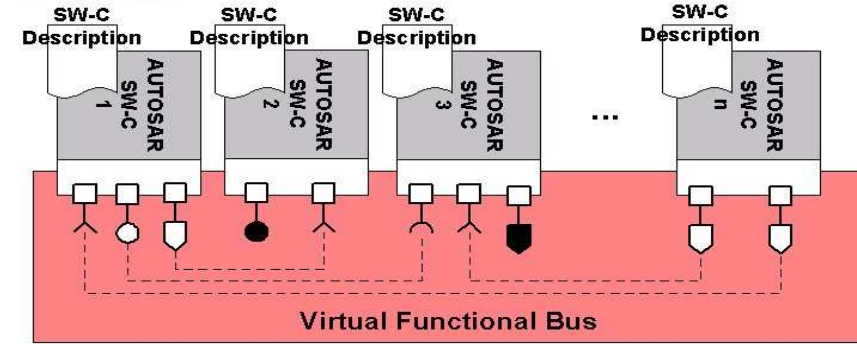
- AUTOSAR is a standardized software architecture for automotive E/E systems, i.e. electronic control units (ECUs).



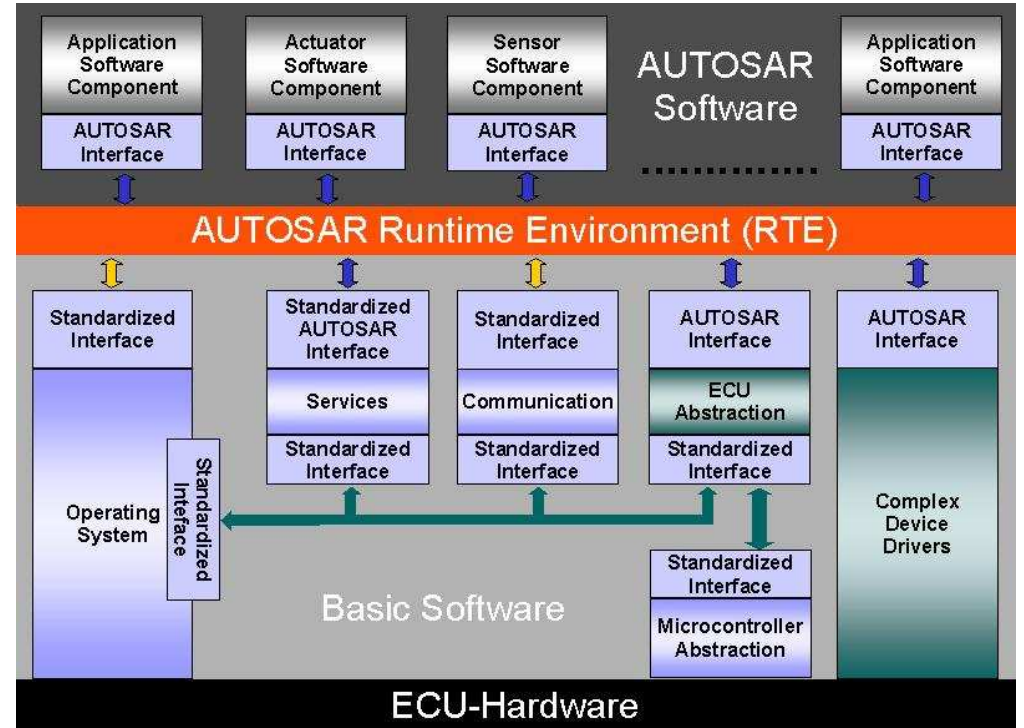
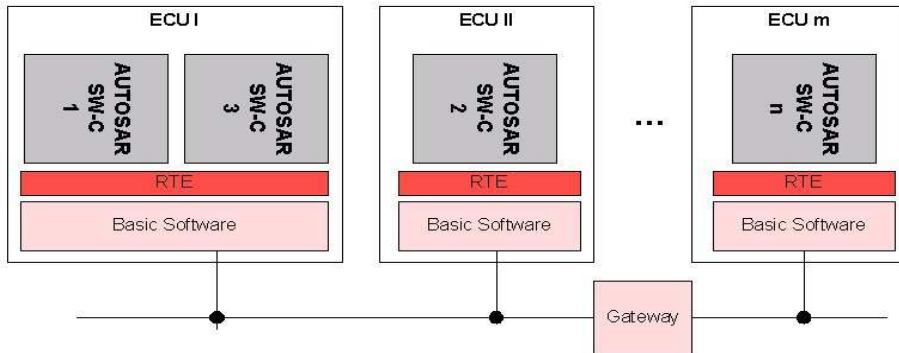
- Basically AUTOSAR standardizes:
  - the operating system
  - a middleware for the abstraction of local and remote communication
  - the description of interfaces between applications
  - the description of a complete E/E system

# AUTOSAR Introduction. AUTOSAR Architecture.

## VFB view

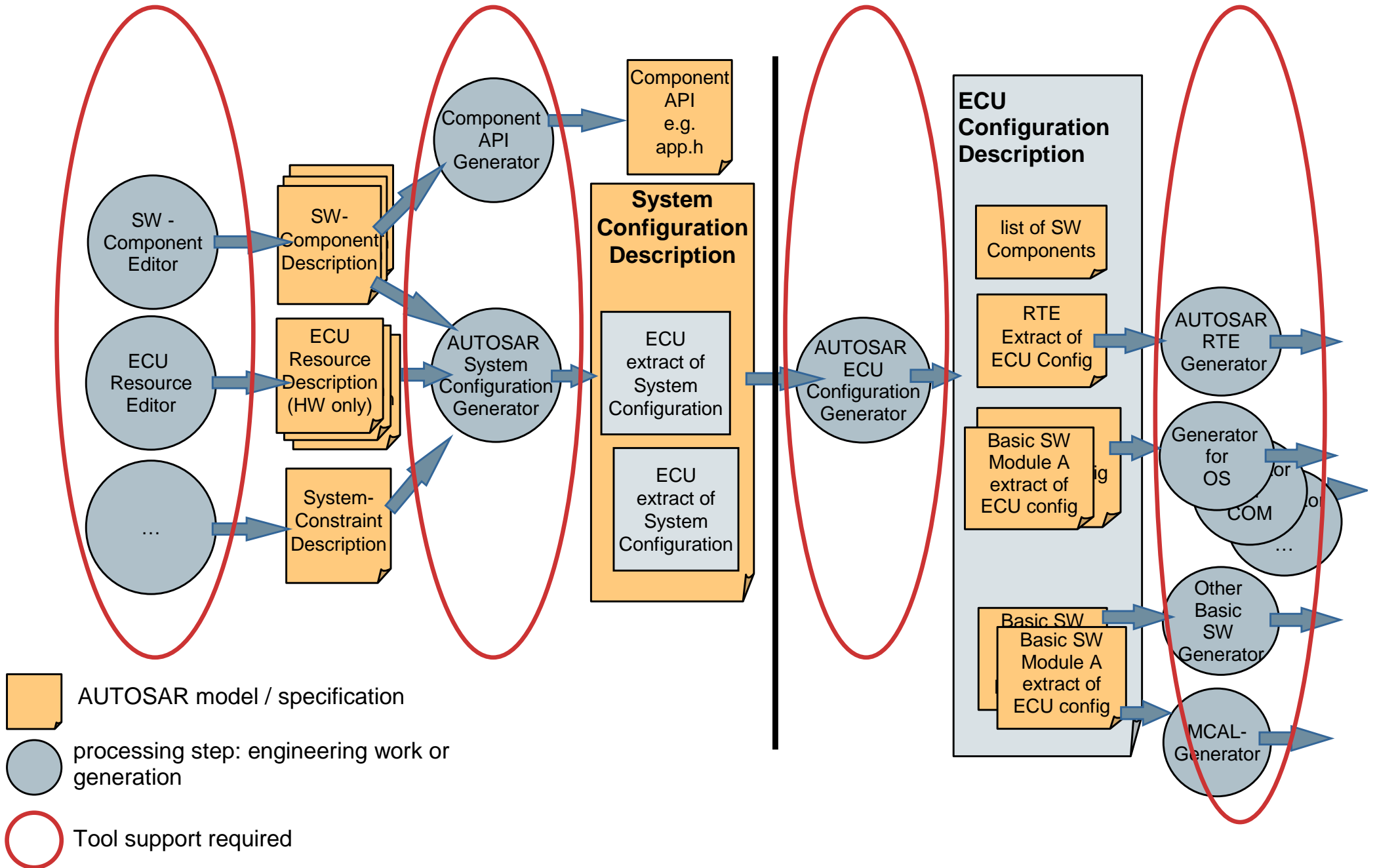


## Mapping



# AUTOSAR Introduction.

## AUTOSAR Methodology.



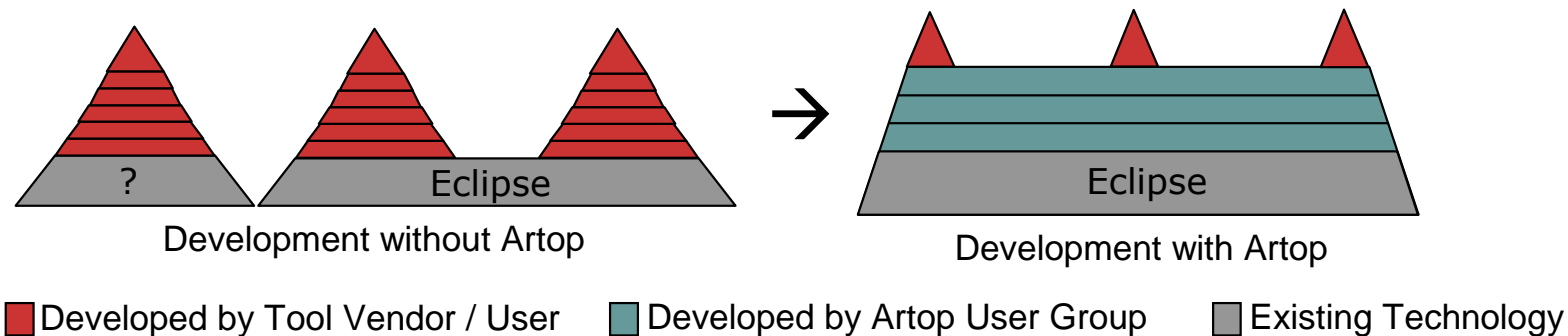
# Artop – AUTOSAR Tool Platform. Motivation for Shared Platform.

## Current Situation

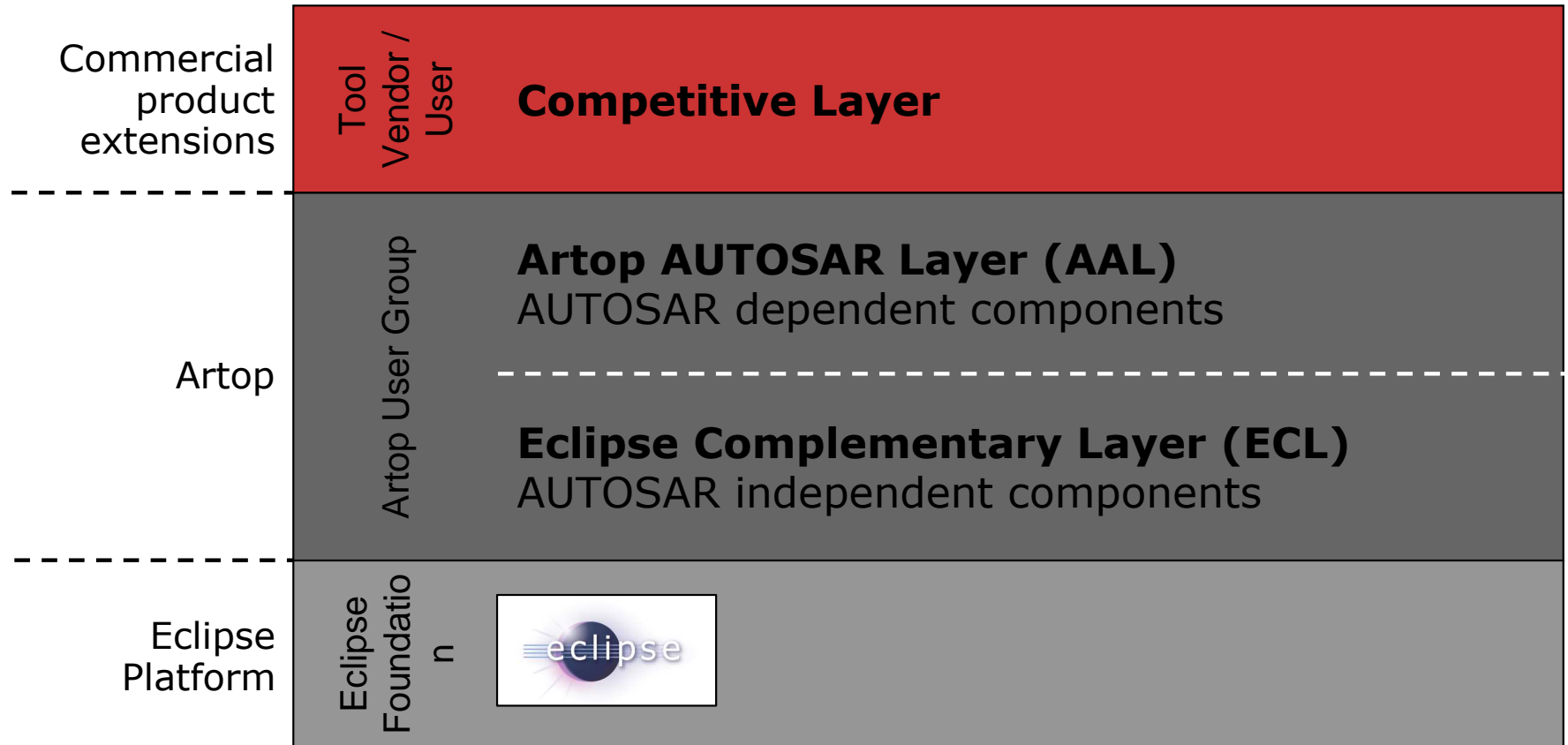
- Similar redundant development on basic AUTOSAR functionality by every AUTOSAR tool vendor for every new AUTOSAR release/revision.
- Tool vendors **do not differentiate** in this basic functionality but it is mandatory for the actual work in tool vendor's area of expertise.

## Better Approach

- Cooperate on the **non-competitive** basic functionality by creating a shared / open platform for AUTOSAR tools.
- Cultivate an ecosystem for AUTOSAR tools.

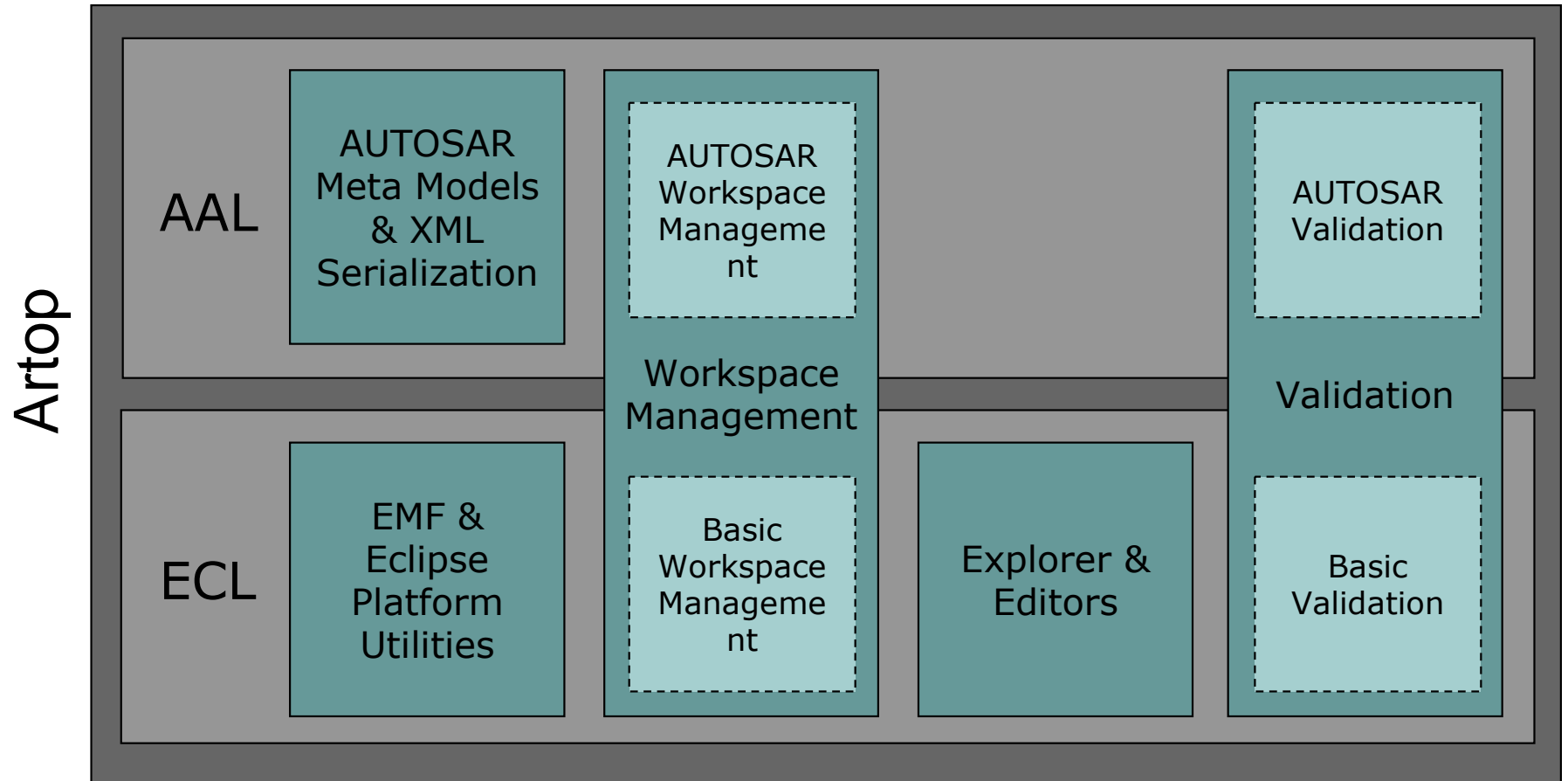


# Technical Overview. Architecture Layers.



# Technical Overview.

## Components in Artop 1.1.





# Artop User Group.

## Overview and License.

- AUTOSAR regulations prevent the disclosure of unpublished AUTOSAR specifications to non-AUTOSAR members.
  - Therefore Artop cannot be an Eclipse project
  - and a separate organization is necessary to host the development of Artop → the **Artop User Group**.
- Due to these reasons Artop uses its own software license that is aligned with the concepts of the EPL, it contains the same elements that are crucial for a successful ecosystem:
  - The platform can be commercially distributed.
  - It can be extended with commercial plug-ins.
  - It is available free-of-charge to the Artop / AUTOSAR community.
  - Changes are contributed back.
- Additionally the Artop license allows for the contribution of code that is not based on AUTOSAR to Eclipse. That means moving certain parts of Artop to Eclipse is possible.

# Artop User Group. Organization.

- The community that develops Artop is organized as an AUTOSAR User Group, i.e. the **Artop User Group**.
- It is a group of AUTOSAR members and partners, i.e. **users** of AUTOSAR, with a special interest in AUTOSAR tools.
- Was launched in October 2008 and the members currently are:
  - Continental
  - Geensys
  - Peugeot Citroën (PSA)
  - BMW Car IT
- New members are welcome to join
  - an AUTOSAR membership is required
- More information is available on the Artop website at:

<http://www.artop.org>



# Artop – AUTOSAR Tool Platform. Discussion.

