Future@SystemX

Development toolchain for embedded automotive software

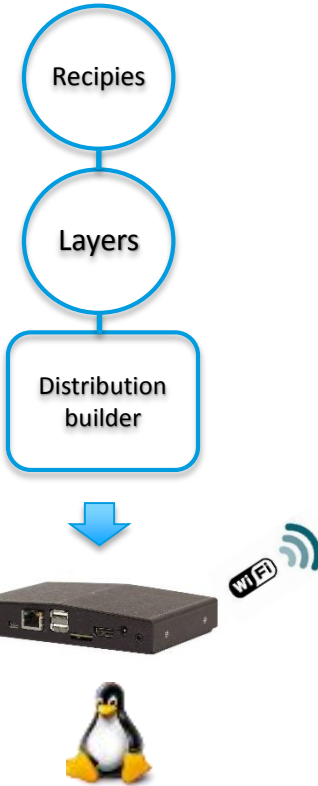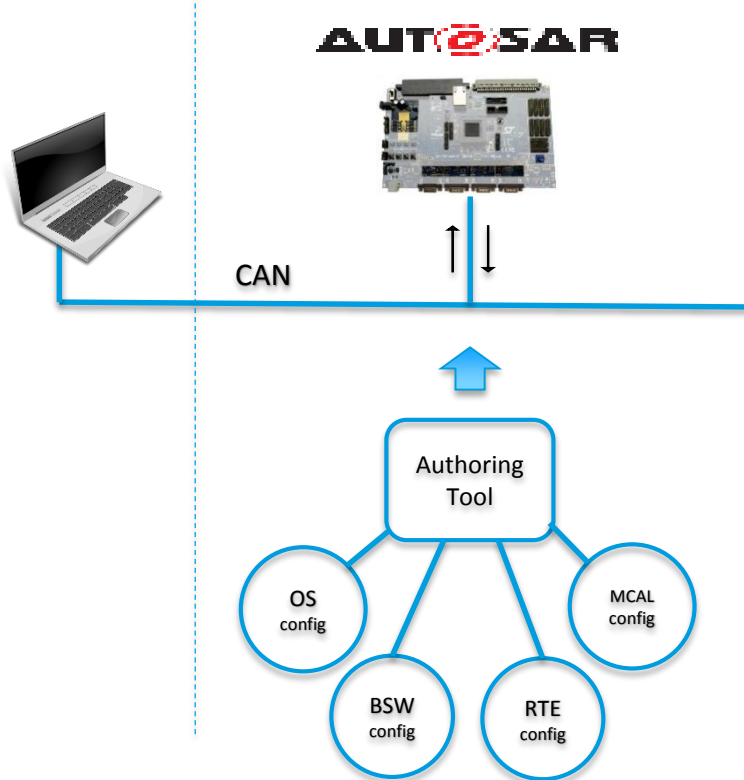**Thomas Wouters**

ELA project
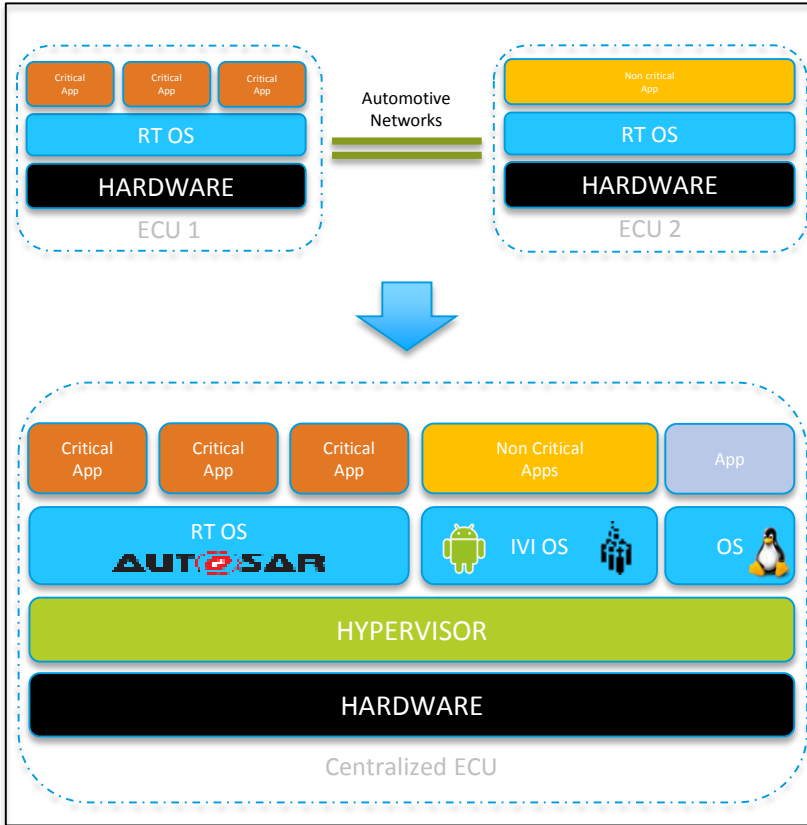
Context and issues

- Too many electronic units
    - ~ 60 in luxury car
- No clearly prominent software architecture standard

Goal

- Reduce physical complexity through ECU virtualization
    - Leverage increasing computing power
    - Maintain safety critical functions through isolation

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ELA project

◆ **Mastering all toolchains**

AUT◉SAR

CAN

CAN

Recipies

Layers

Distribution builder

Authoring Tool

OS config

BSW config

RTE config

MCAL config

WiFi

Android SDK

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#DESIGN   #MODELIZE   #SIMULATE   #EXPERIMENT