

# Reference Hardware, System Architecture EG.

AMM 2018 Tokyo



2018.02.19

SEIJI GOTO

Mazda Motor Corporation



*zoom-zoom*

# Multiple OEMs and Types of Cars

## AGL OEMs

DAIMLER,

HONDA, MAZDA

MITSUBISHI MOTORS

NISSAN, SUBARU

SUZUKI, TOYOTA

## Types of Cars

Compact · Sports · Luxury

Sedans · SUVs · Crossovers

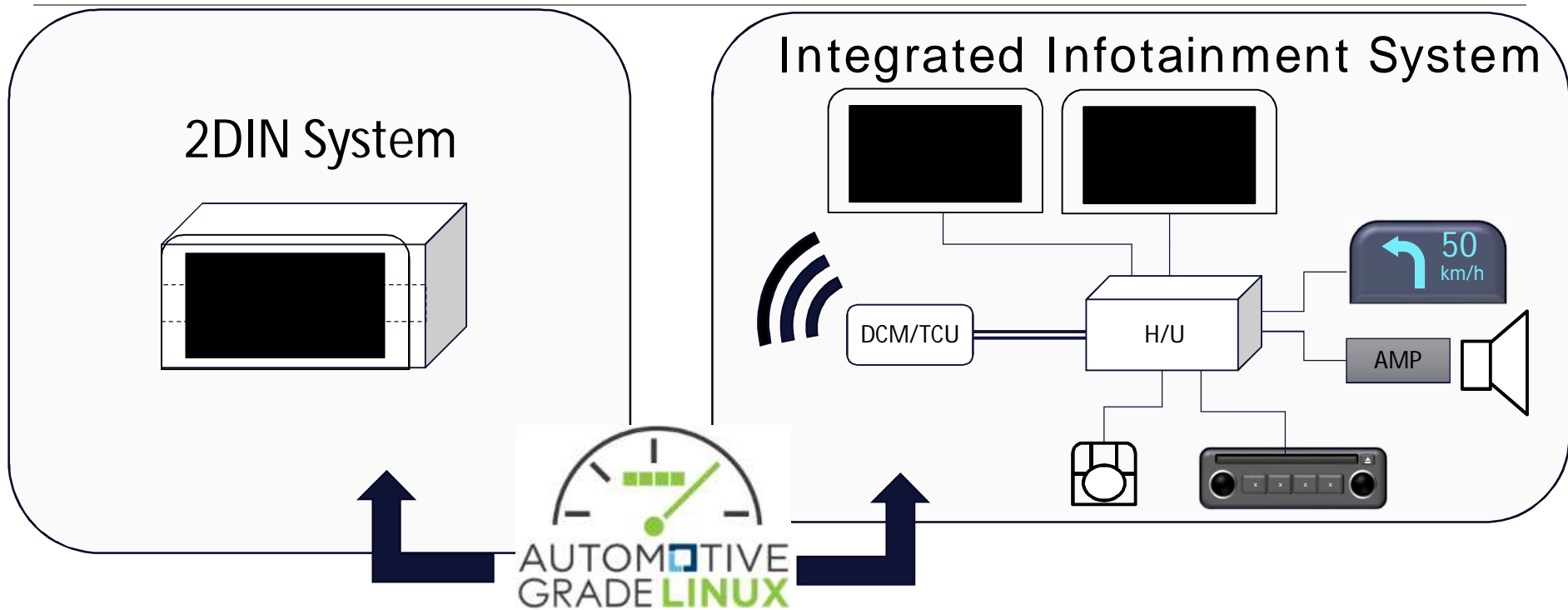
Electric Cars, Hybrid Cars



The Diversification of IVI system configuration is inevitable.

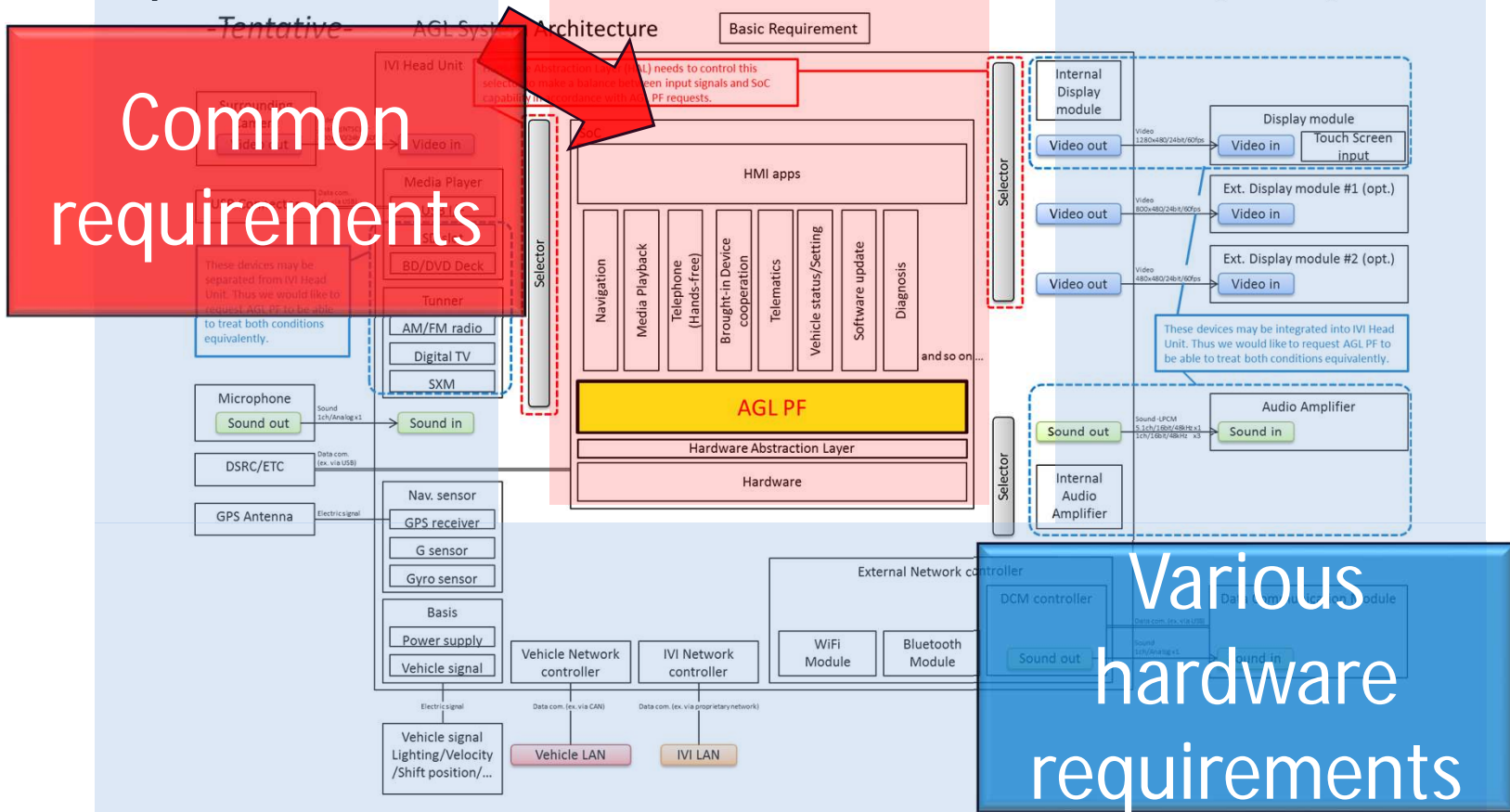


# Compatible with various IVI system

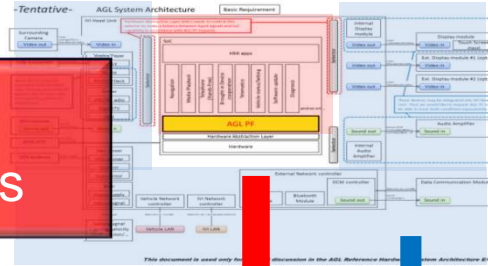


If AGL can work on both systems, (just like laptop and desktop) it will solve the problem of the current IVI development workload.

# Example of System Architecture compatible with various combinations of peripherals.



# Define Reference Hardware Architecture



Common Requirements

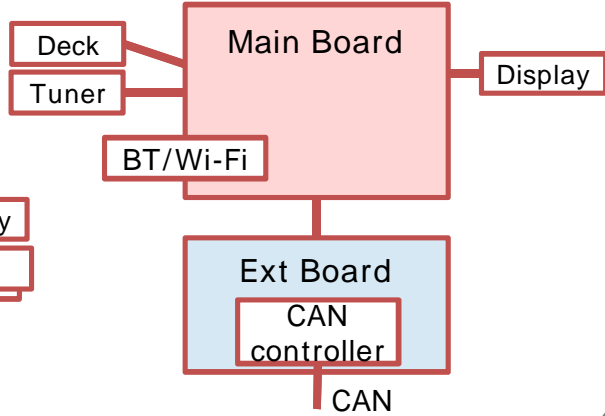
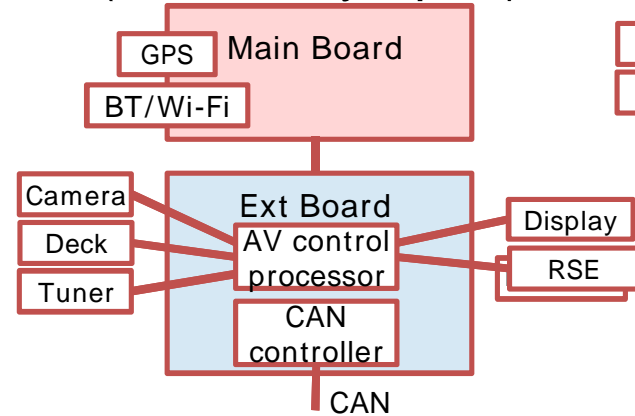
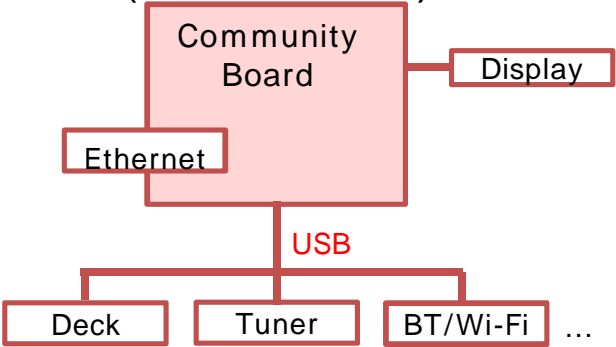
Various hardware requirements

Reference Hardware (for AGL PF)

Reference Hardware (for luxury spec)

Reference Hardware (for compact spec)

Tentative

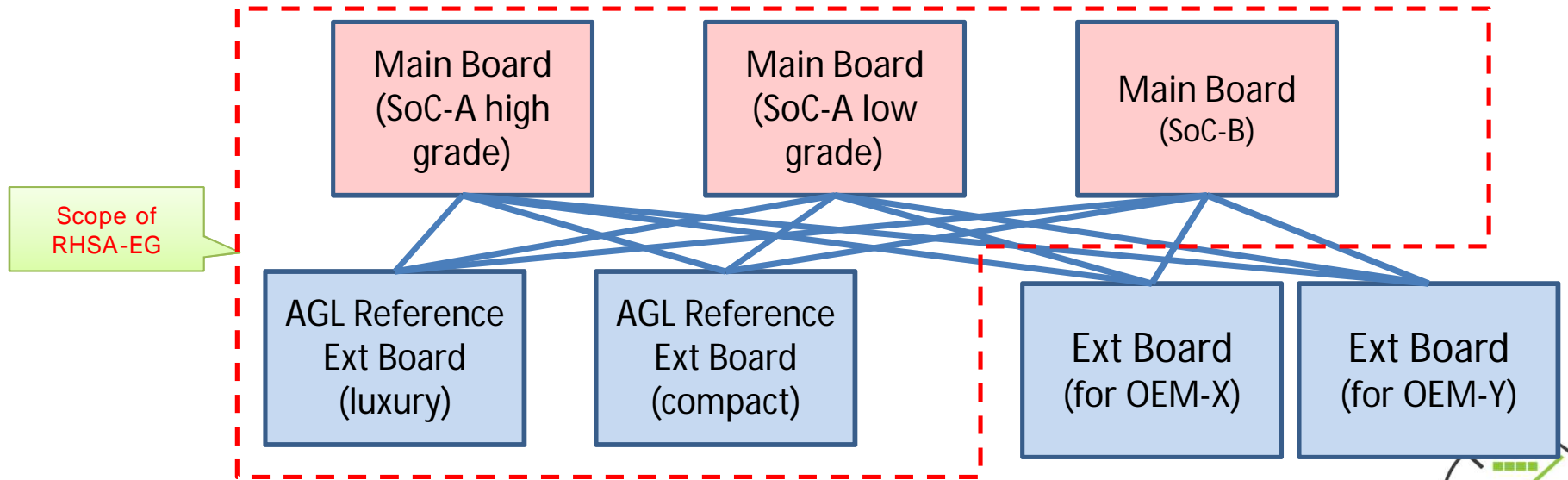


# (a) Reference Hardware Specification Document

- Spec V0.1.0 (Open Draft) was published on October 18, 2017.

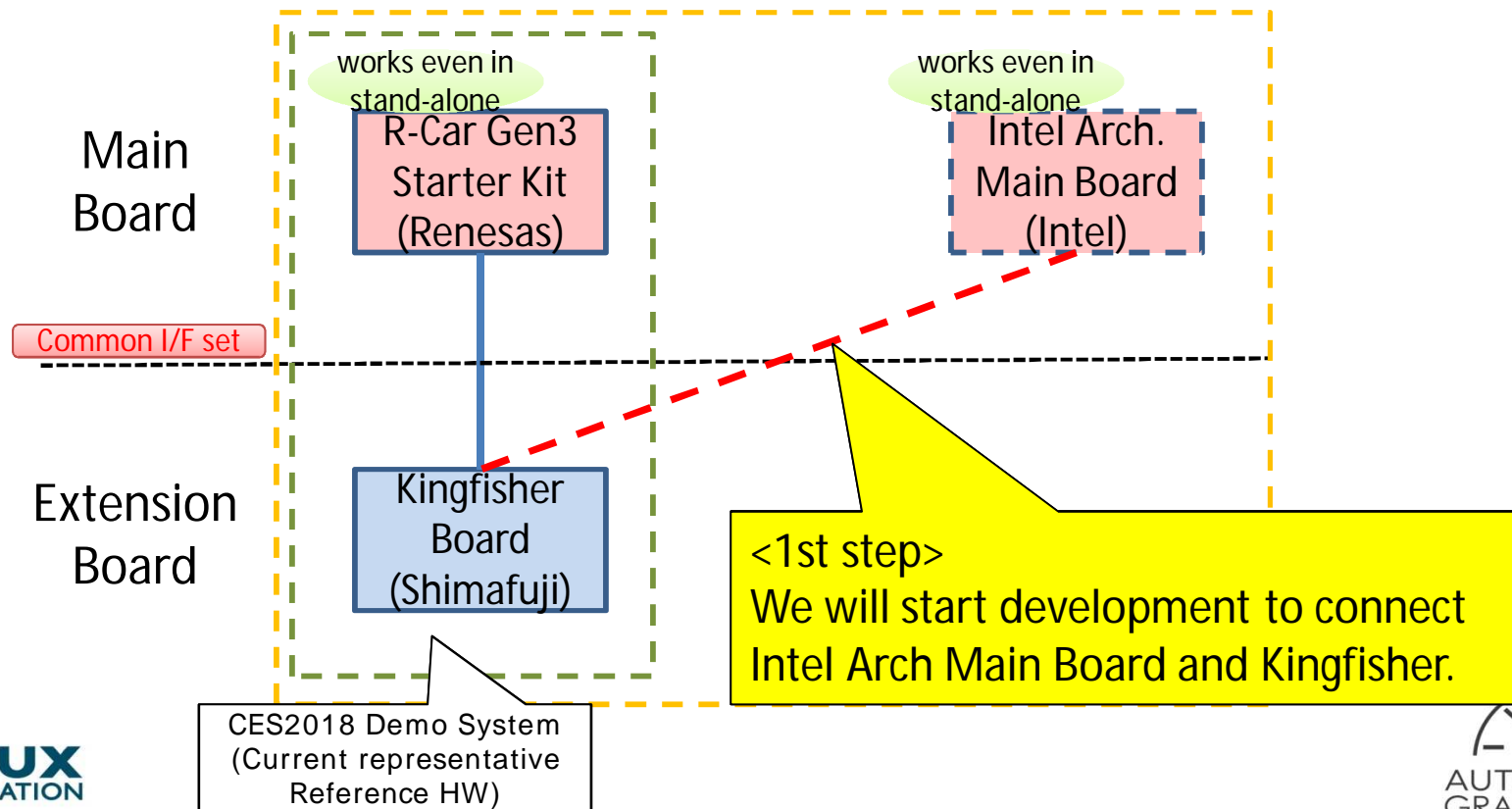
[https://wiki.automotivelinux.org/\\_media/eg-rhsa/agl\\_referencehardwarespec\\_v0.1.0\\_20171018.pdf](https://wiki.automotivelinux.org/_media/eg-rhsa/agl_referencehardwarespec_v0.1.0_20171018.pdf)

Major Policy : Main board and Extension board can be combined freely.



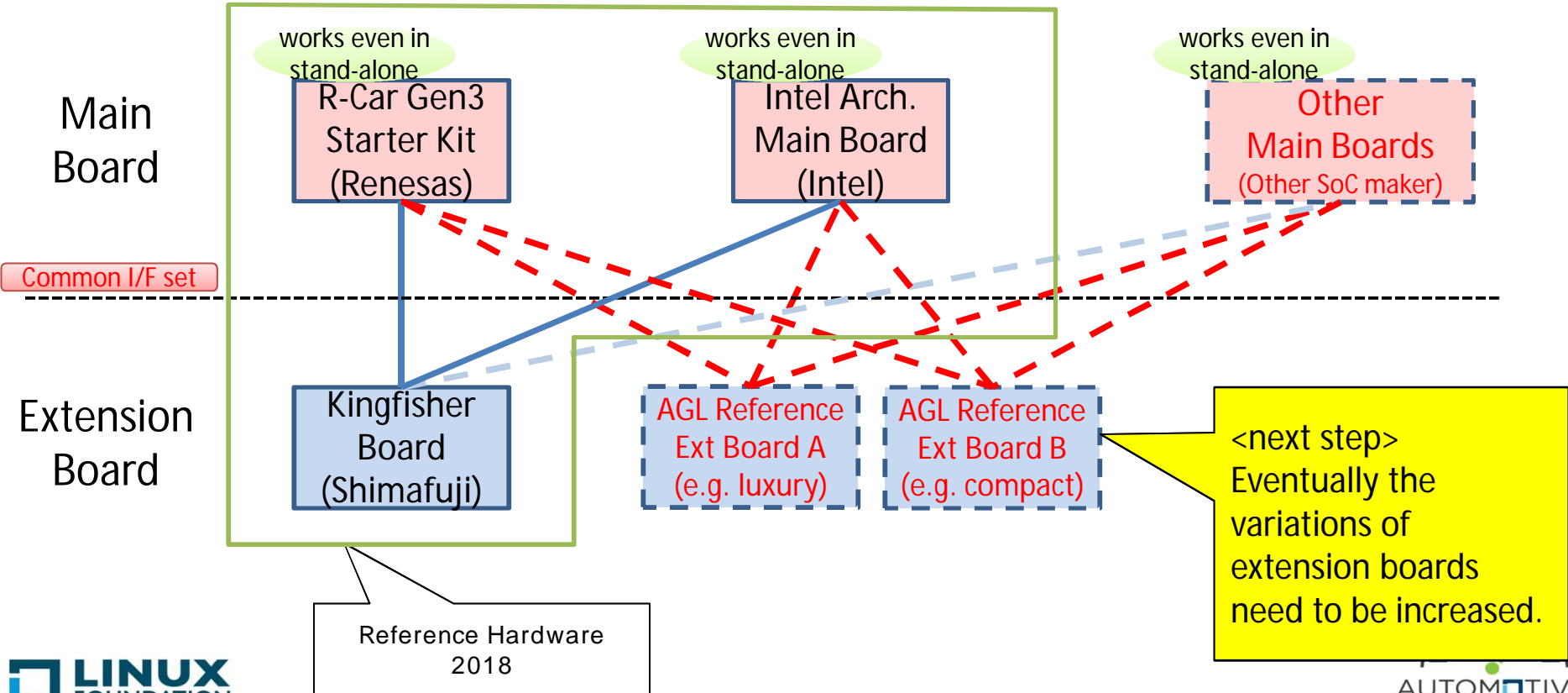
## (b) Reference Hardware Development (2018)

### Collaboration between RHSA-EG and Renesas, Intel, Shimafuji



# (b) Reference Hardware Development (next step)

Collaboration between RHSA-EG and SoC vendors





# Schedule

