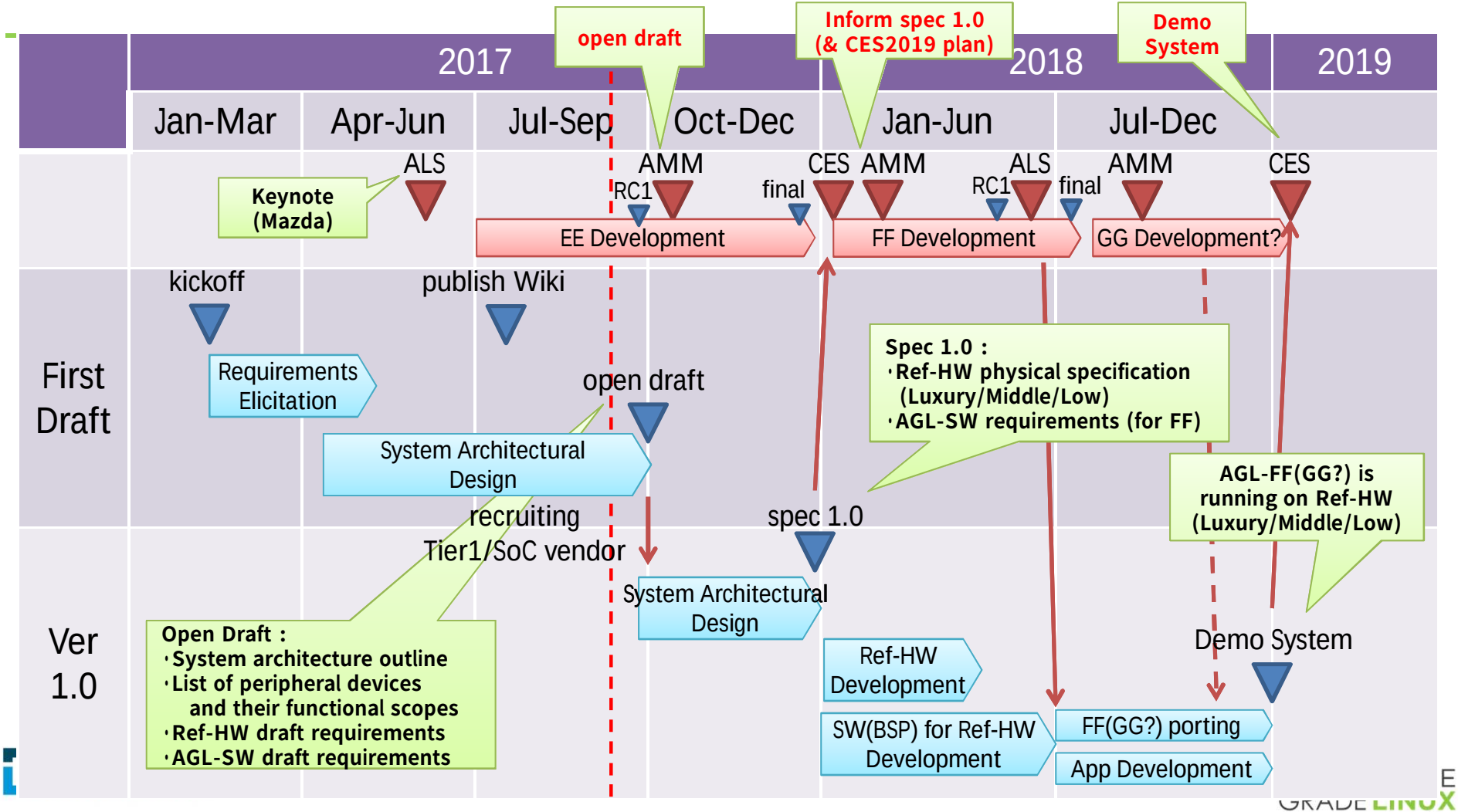
AGL RHSA-EG
2017/9/22

Reference Hardware Schedule



Next Step (Aug 2017)

■Towards Open Draft【OEM】

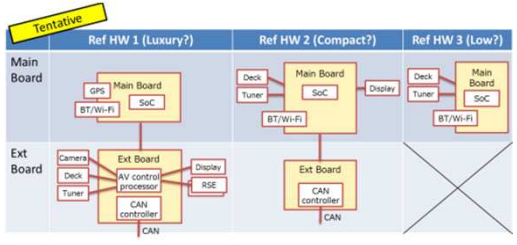
- Complete the list of peripheral devices & function allocation.

- Clarification of the functional scope in AGL.
  - RSE
  - Cluster / HUD
  - Emergency call

Next Step（Sep 2017）

■Towards Open Draft【OEM】

now in progress



- Define the hardware specification draft
  - Rough block diagram of Ref-HW
    3 kinds Ref-HW? (Luxury/Middle/Low)
  - Special requirements
    - Adopt at least 2 kinds of SoC
    - 2 boards constitution : Main board + Extension board
    - Main and Ext boards can be combined freely with COMMON I/F.

- Define the software specification draft
  - AGL specification to operate on various IVI system configurations
    (Selector, Vehicle Data Abstraction etc.)
  - Additional function to AGL platform (in-deck decode etc.)

→ Summarize and announce it as “Reference Hardware Open Draft”

Future Plan（Oct-Dec 2017）

■Towards Ver1.0 specification［OEM+Tier1/SoC］

- Recruit Tier1 and/or SoC vendors

- Define the hardware specification
  Physical design of Ref-HW (HW block layout, communication I/F, ...)

- Define the software specification
  SW design to operate Ref-HW
  Some of EGs already started discussion related with this topic.
  ex. “Selector” has a close relationship with Audio Management Arch.
  (under discussion in UI & Graphics EG)

→ Summarize and announce it as “Reference Hardware Specification 1.0”

Future Plan（2018）

■Towards Ref-HW development［OEM+Tier1/SoC］

- Reference Hardware development
  - Board development … Tier1 or SoC vendor
    - 3 kinds of demo systems? (Luxury/Middle/Low)
    - at least 2 kinds of Main Board

- AGL Software development
  - Device driver / HAL layer (BSP) … Tier1 or SoC vendor
  - AGL UCB (for FF*) … Community *AGL 6.0.0:Funky Flounder
  - Application (if required) … ?

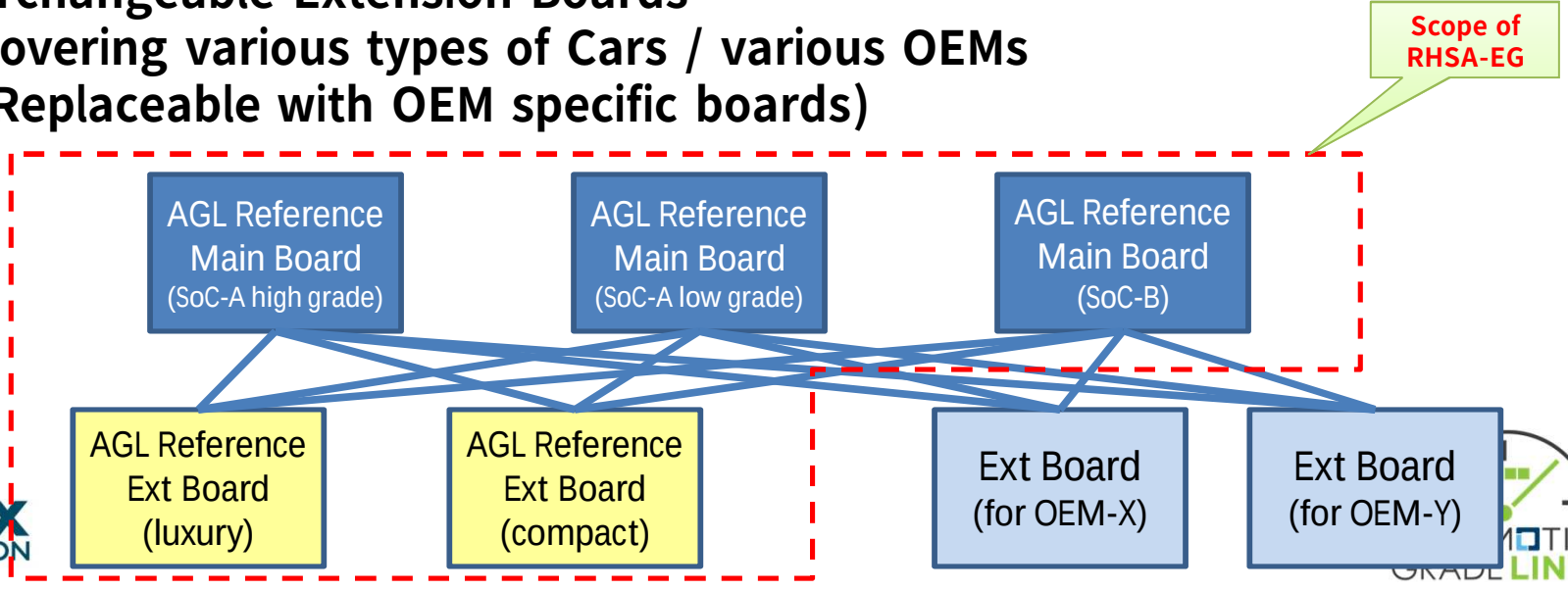
→ Construct Demo System for CES 2019.
Show AGL UCB(FF) is running on Ref-HW boards (Luxury/Middle/Low)

Major Policy of Reference Hardware

(1) Two boards constitution : Main board + Extension board
Main Board (SoC Board) ... AGL common feature
Extension Board ... OEM specific feature

(2) Interchangeable Main Boards
Covering various SoC grades / various SoC vendors

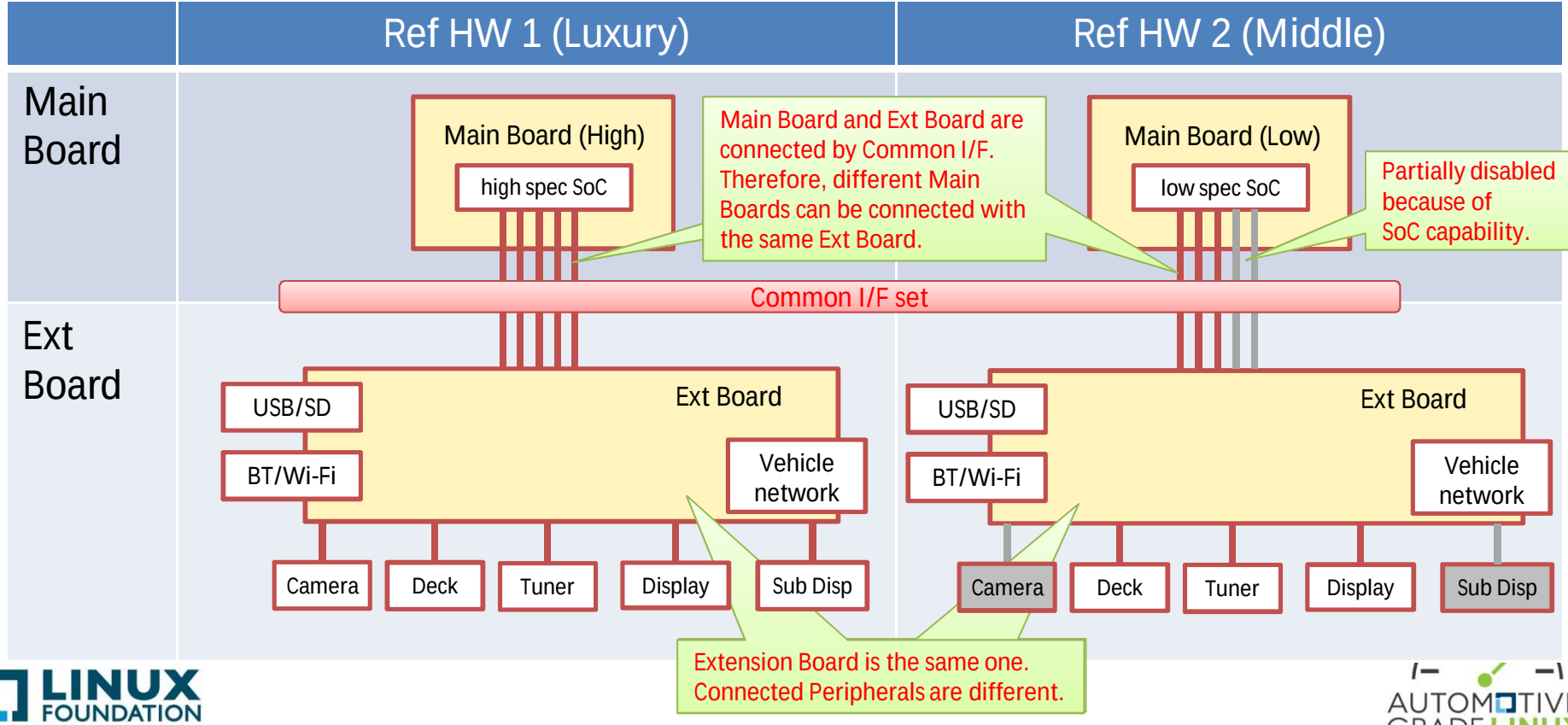
(3) Interchangeable Extension Boards
Covering various types of Cars / various OEMs
(Replaceable with OEM specific boards)



Define Reference Hardware <Step1>

Towards CES 2019

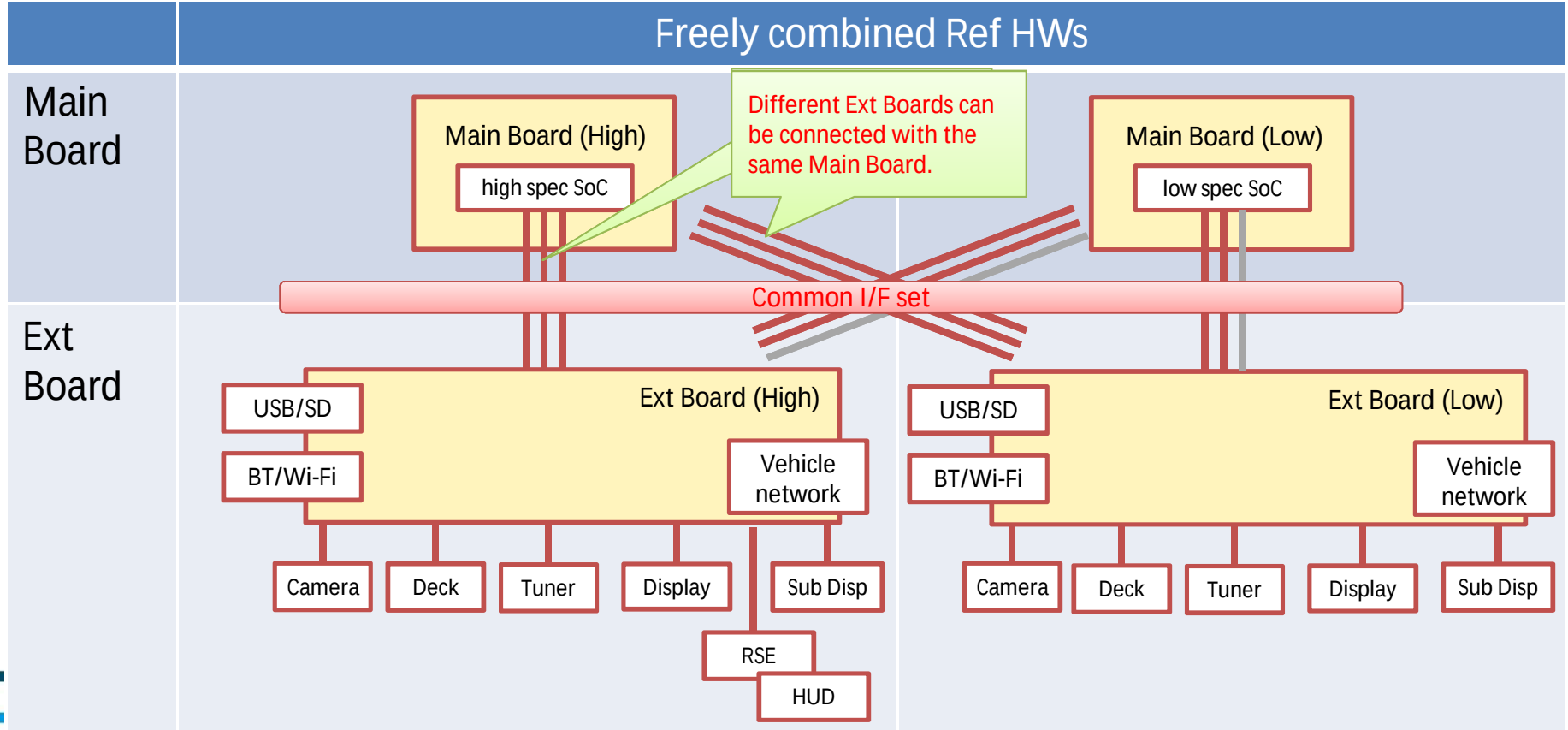
Realizing POLICY (1) and (2) as a first step.



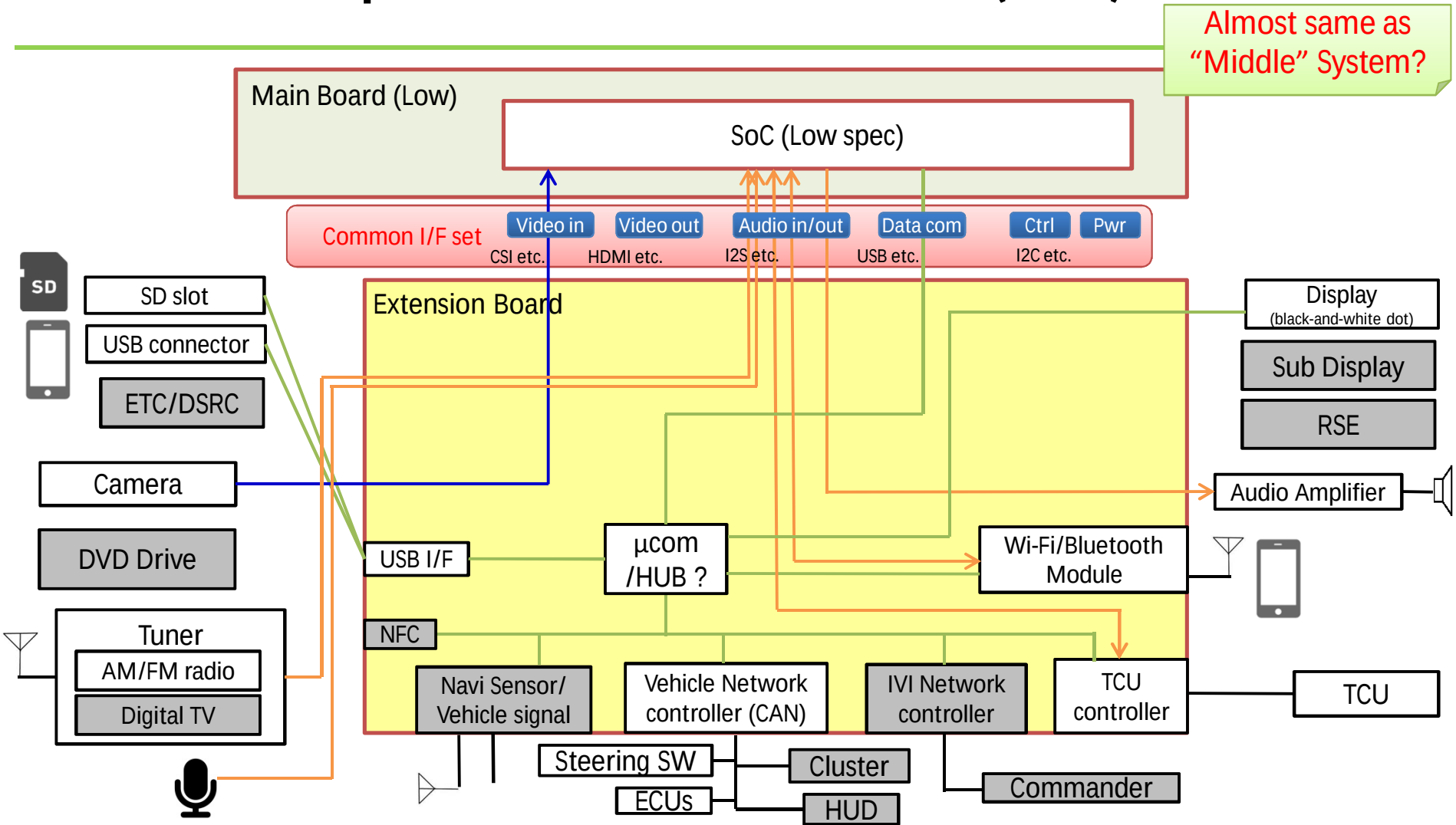
Define Reference Hardware <Step2>

Future Plan

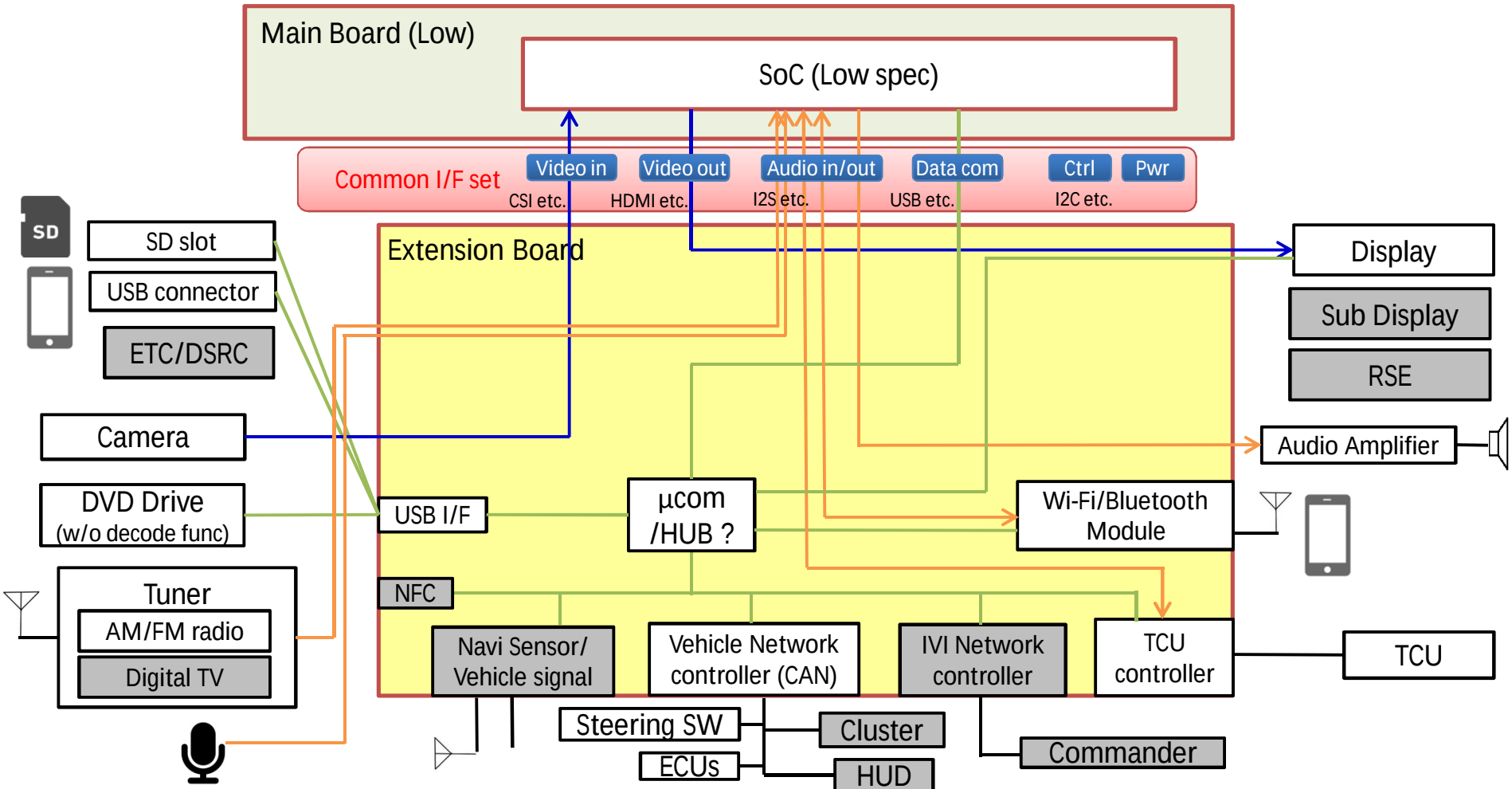
Realizing POLICY (3).
It can reduce the GAP between Ref HW and product HW.



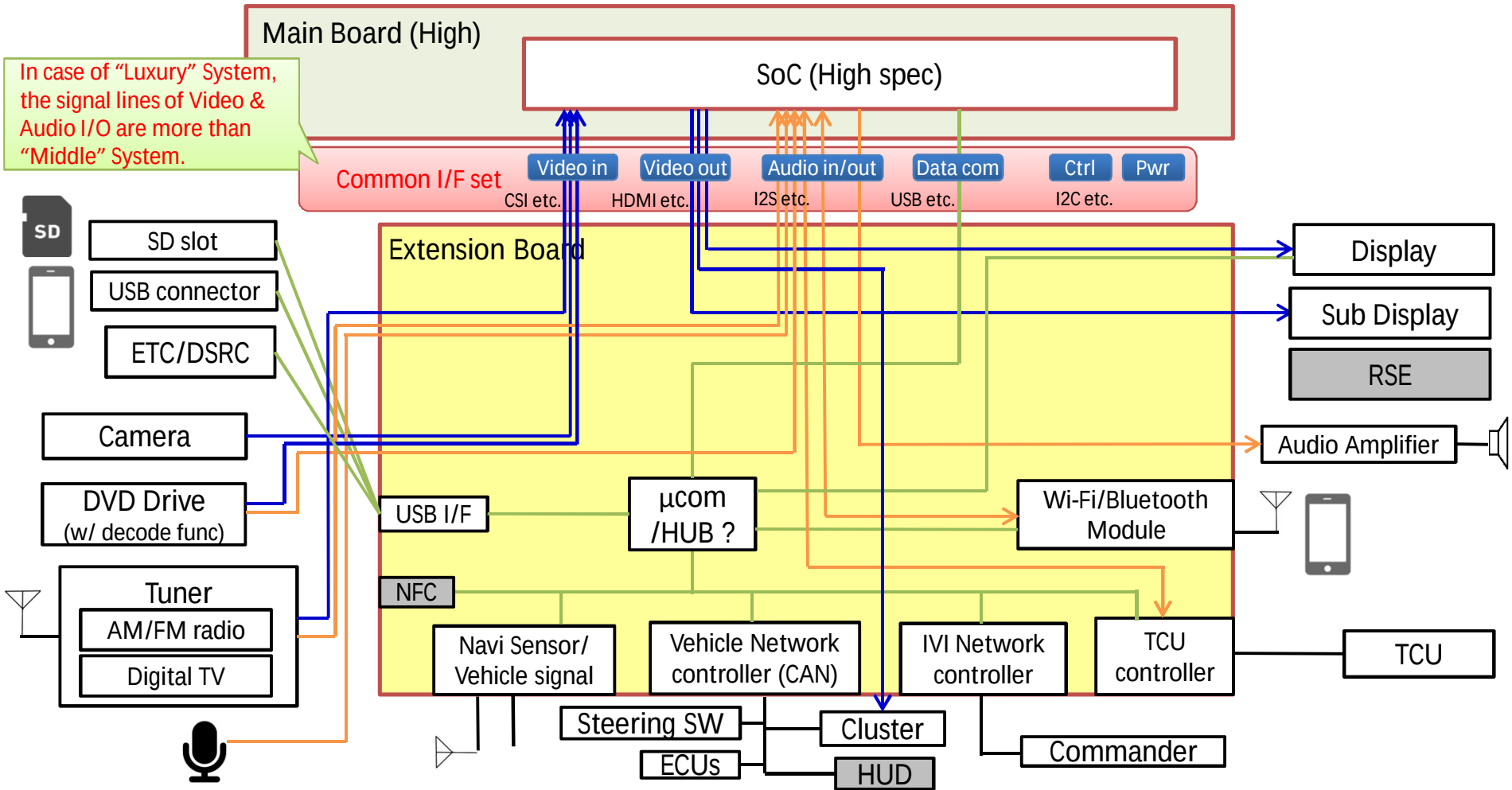
Example : Reference Hardware (Low)

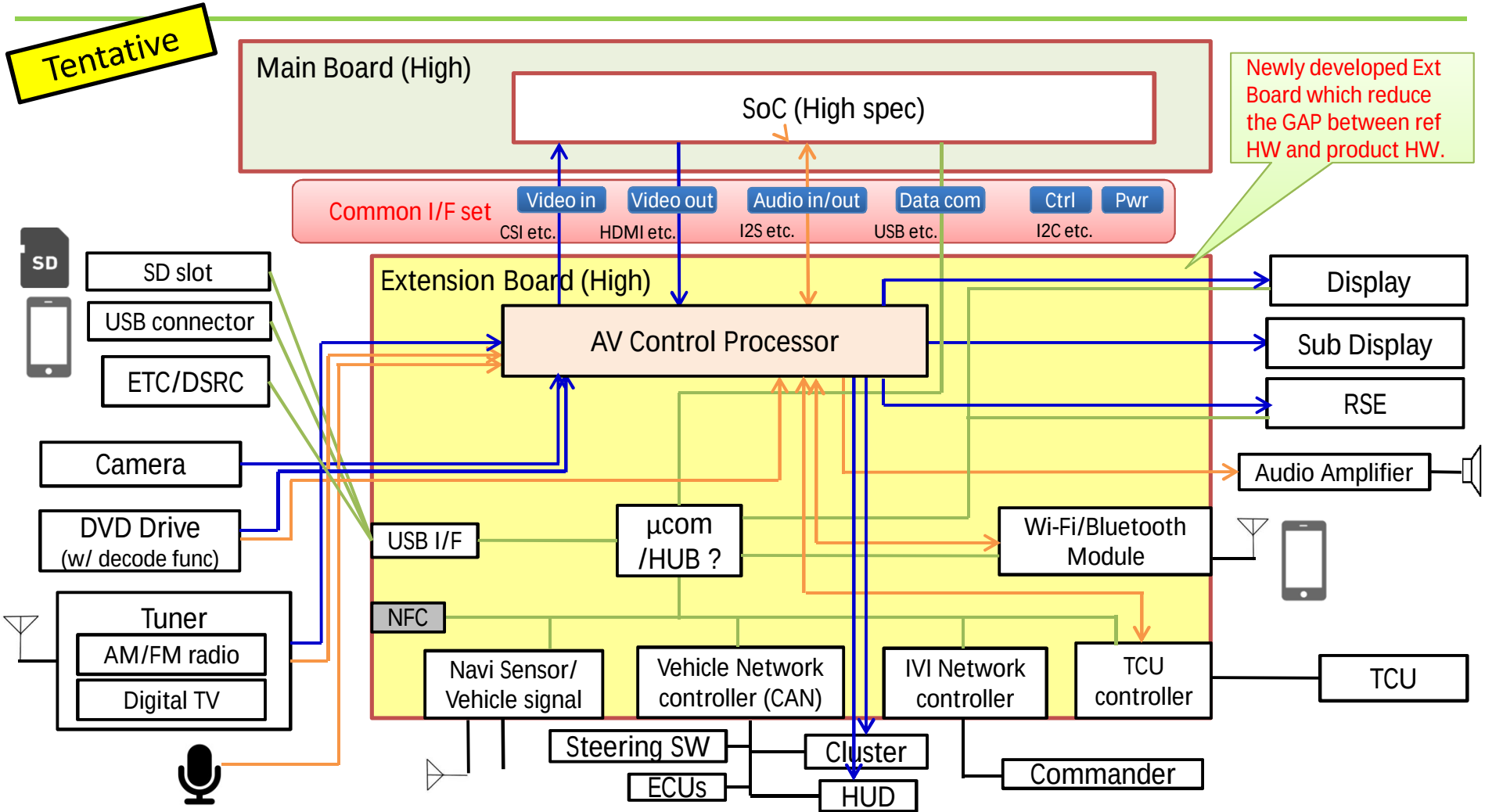


Example : Reference Hardware (Middle)



Example : Reference Hardware (Luxury)



Future Plan

Example : Reference Hardware (Luxury+)