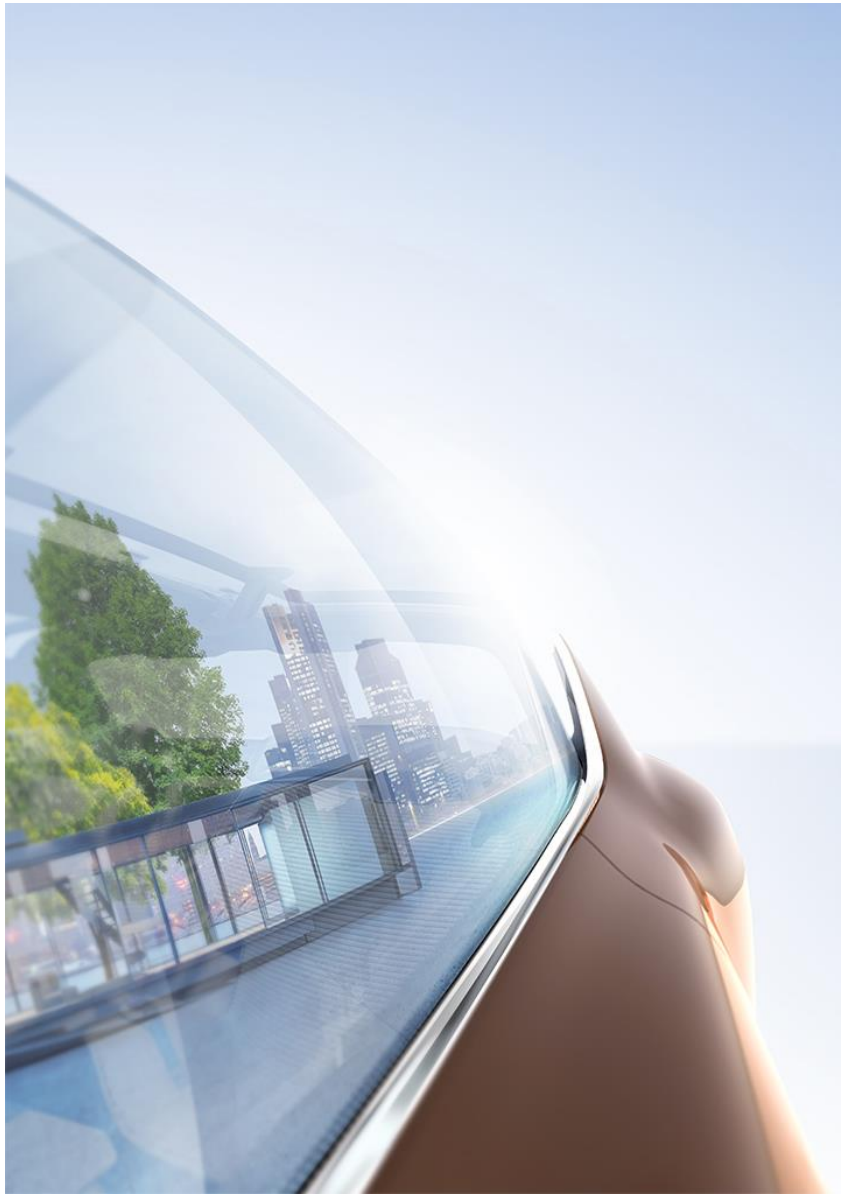


DRIVE THE FUTURE

Pierre-Henri Bonnaud

Software LABS

CONFIDENTIAL B
PROPERTY OF GROUPE RENAULT

Robotics for Automotive

WILL AUTONOMOUS DRIVING APPLY FIRST ON ROBOVEHICLE OR AUTONOMOUS PASSENGER CAR ?

AD is a major disruption and drive heavy investments in Robotics

ADAS
(L1, L2, L3)

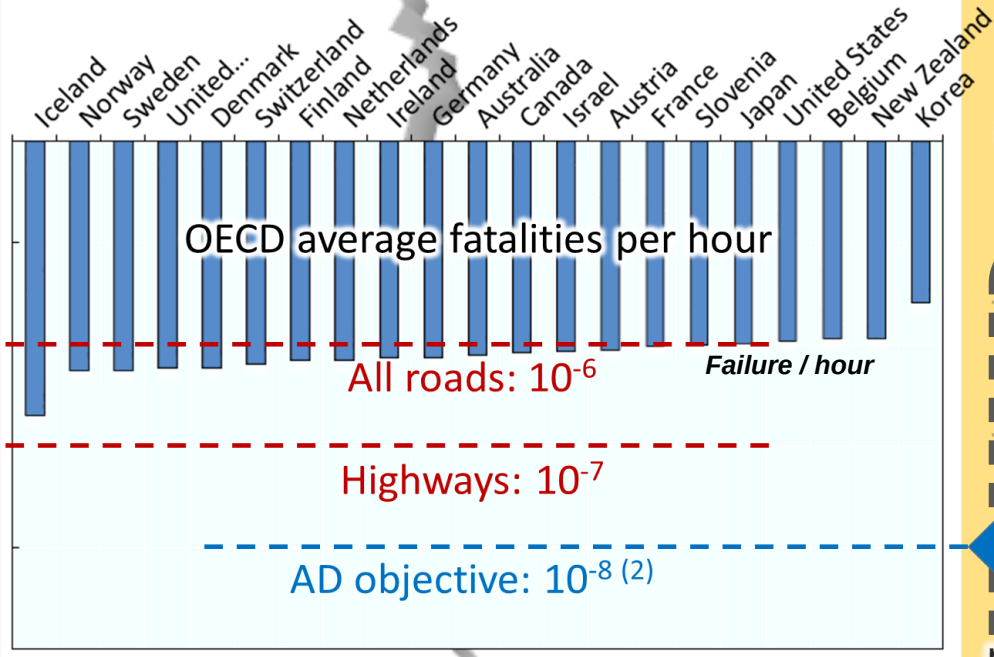
Driver is the last resort

Driver reliability proof

Driver training + experience

(1) *Emerging German L3 standard (Audi, BMW, Daimler)*

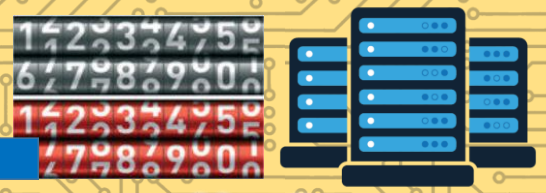
(2) *Emerging consensus among European OEM*



AD
(L3+(1), L4, L5)

System is the last resort

System reliability proof



Massive
mile accumulation + resimulation

This heavy investment disrupt the business model of big Automotive OEMs

ROBO VEHICLE

- Reduced numbers of driving use cases and resulting system and validation complexity
- Change in business model (car sharing)
- Business model can support expensive Bill Of Materials

PASSENGER CAR

- Keep existing driving conditions and environments, with heavy complexity and safety requirements
- Business model unchanged (based on cost of ownership)
- Business model can only afford limited cost adder

What will be the first AD robotics application for automotive?