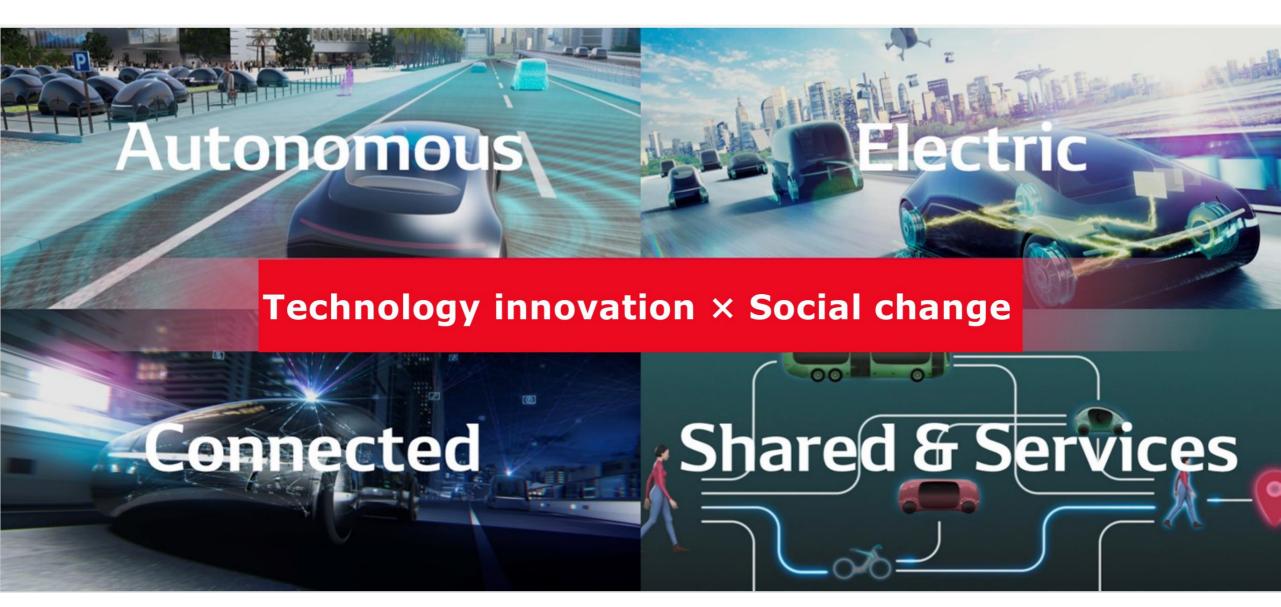


Towards Automotive IoT and Edge

June 2021

Christian Prehofer

Director, DENSO Corporate R&D





IoT – Edge – Cloud Overview

IoT Devices

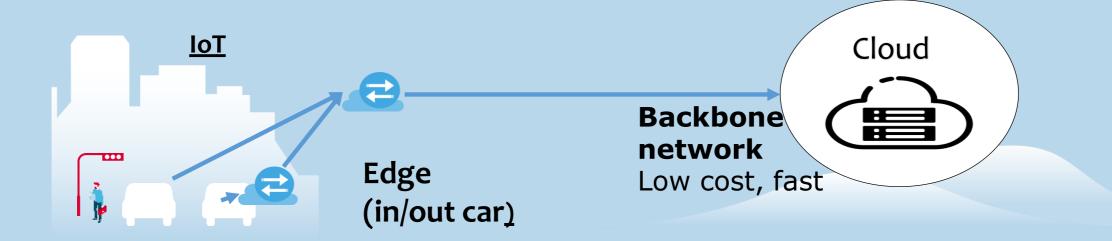
- Lots of sensors & actuators
- Limited computing
- Limited power, networking, storage

Edge Computing:

- Local computing
 - Faster response
- Local data only
- Less data to cloud (privacy)

Cloud Computing

- On demand & adaptive
- Fully managed HW, SW, reliability, security
- Economies of scale regarding HW/energy/maintenance/ utilization





Systems & open Platforms







Standardized Architecture & Components



App App App
Container1 Container2 Container3

Distributed Container Platform

Containers for deployment and management: "Microservices" – lightweight virtualization

Google, Inc, https://github.com/kubernetes/kubernetes/blob/master/logo/LICENSE



DENSO Crafting the Core