



Conclusion Panel

Moderator : Philippe Gicquel

CONNECTED & AUTONOMOUS CARS

tens of millions of Lines of Code



Egil Juliussen, IHS



Laurent Meillaud, journalist



Roger Lanctot, Strategy Analytics

How will automotive industry overcome the challenge ?

Open Source
Software

Standardization

Ecosystem

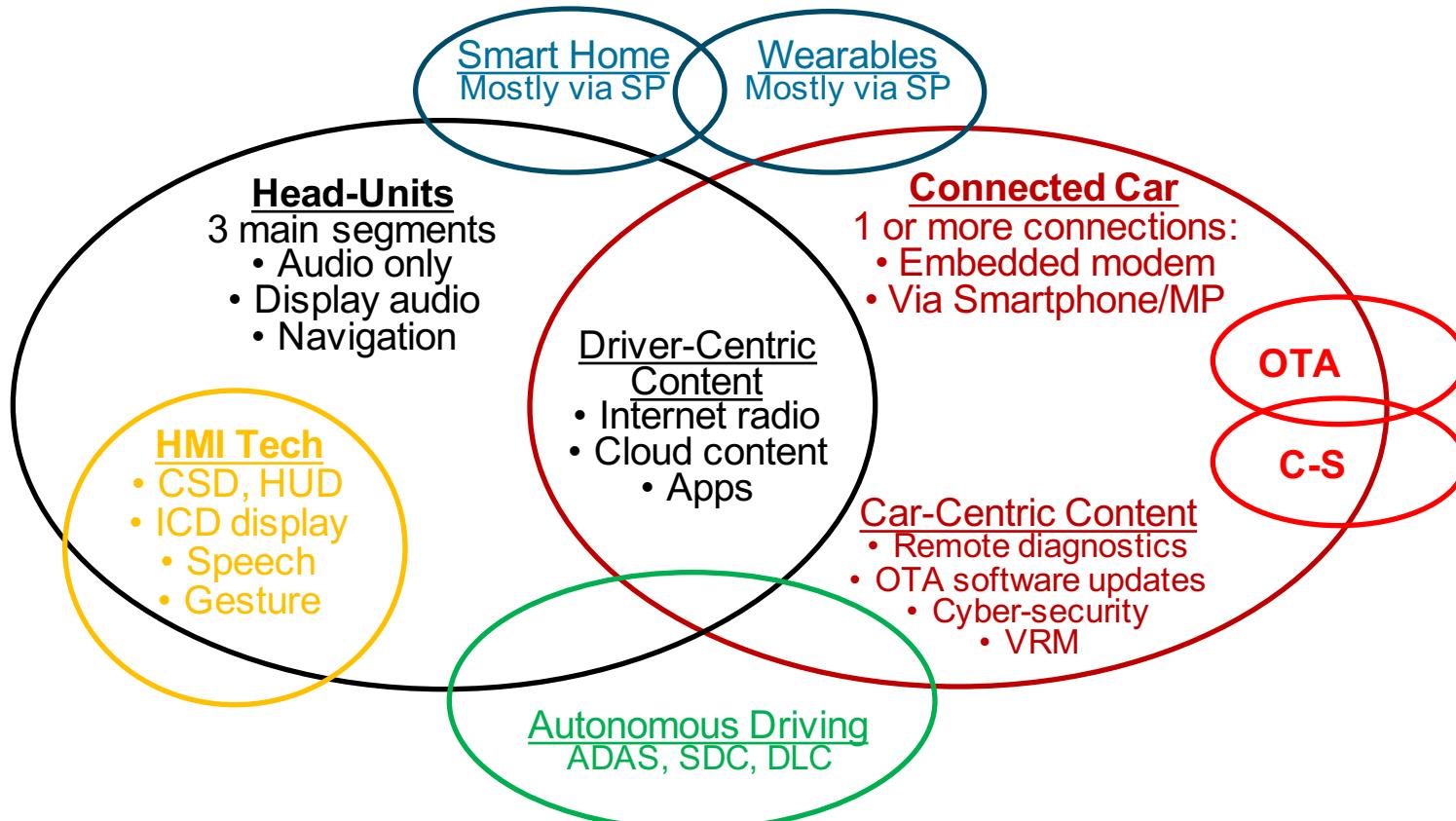
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Egil Juliussen

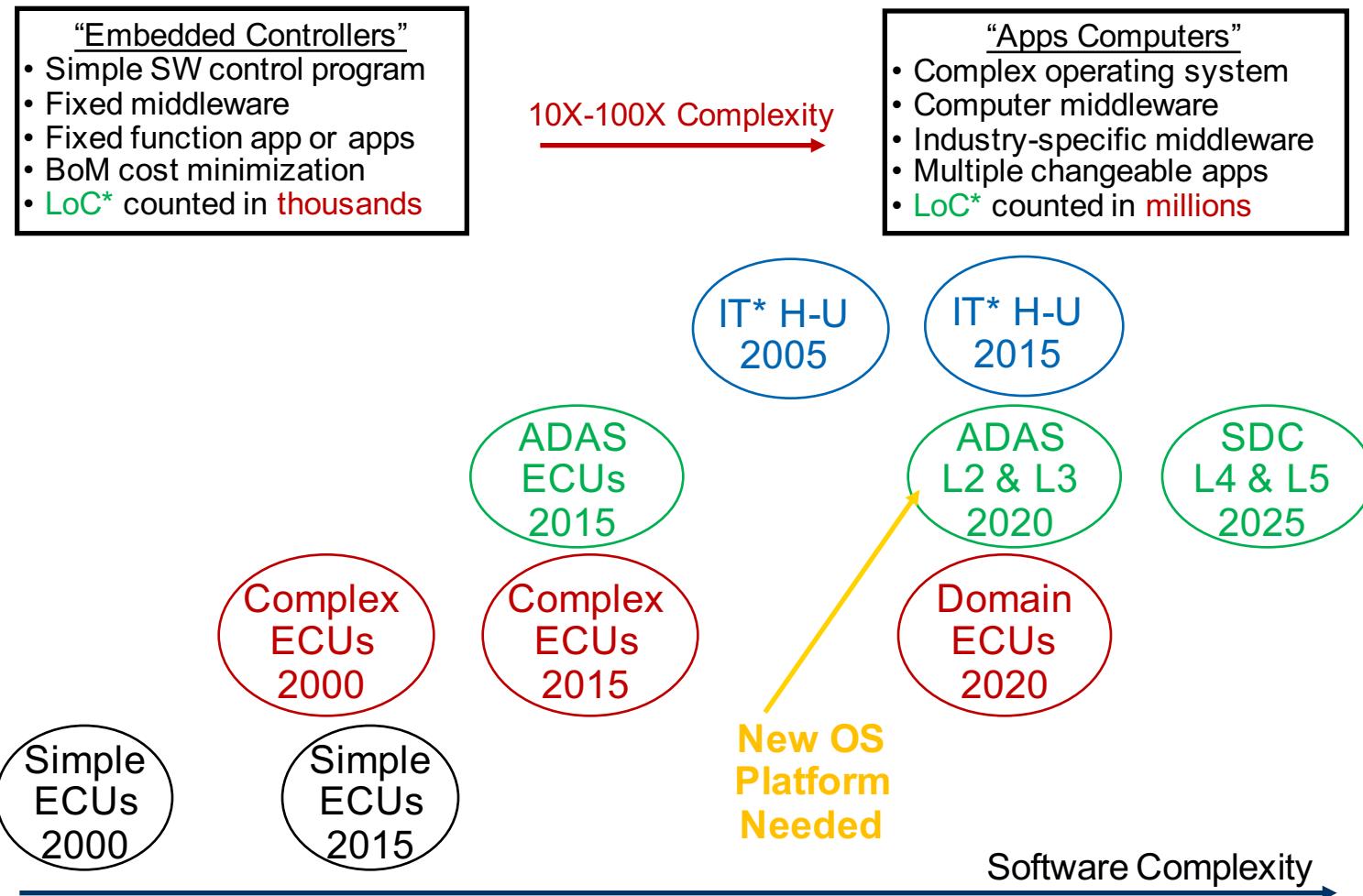
BACKUP SLIDES

Infotainment: Connected Car vs. Head-Unit



MP=Mobile Phone; SP=Smartphone; VRM=Vehicle Relationship Management; SDC=Self-Driving Car;
DLC=Driverless Car; OTA=Over-the-Air; C-S=Cyber-Security

Auto Software Complexity Path



High-Tech Impact Evolution

H-T as
DLC CaaS
Competitor

H-T as
T1-OEM
Competitor

H-T as
T1-OEM
Supplier

DLC CaaS Fleets

- Mobility services
- Anyone & Everything

Connected Car

- Smartphone Apps
- Content via CP-AA

Battery EV

- Luxury BEV: Tesla
- More start-ups

Connected DLC

- Content consumption
- Content for work

SDC & DLC BEV

- CaaS business model
- Ownership model

ECU Software

- Operating System
- Middleware & apps
- Navigation maps

ECU Software

- Remote SW update
- Cyber-security
- ADAS & DL apps

ECU Software

- SDC & DLC SW
- Cyber-security & OTA
- HD maps & DL apps

ECU Chips

- MPUs & memory
- Sensors & more

ECU Chips

- MCUs & SoC
- ADAS sensors

ECU Chips

- Multi-core SoC
- SDC-DLC sensors

2010

2020

2030

CP=CarPlay; AA=Android Auto; DL=Deep Learning; CaaS=Car-as-a-Service; SDC=Self-Driving Car;
DLC=Driverless Car; OTA=Over The Air; SoC=System on Chip

SOURCE: IHS Automotive