

# PERSPECTIVE ON AUTOMATED-DRIVING

A Nissan in Silicon Valley Perspective

**Maarten Sierhuis**

Nissan Advanced Technology Center – Silicon Valley

# Nissan R&D Centers *(R&D Budget ~\$3B)*

RESEARCH & ADVANCED ENGINEERING

**NATC - Atsugi**



NML  
JAPAN

ENGINEERING

**NTC - Atsugi**



**NATC-SV, Santa Clara**



NNA  
USA

**NTCNA, Farmington Hills**







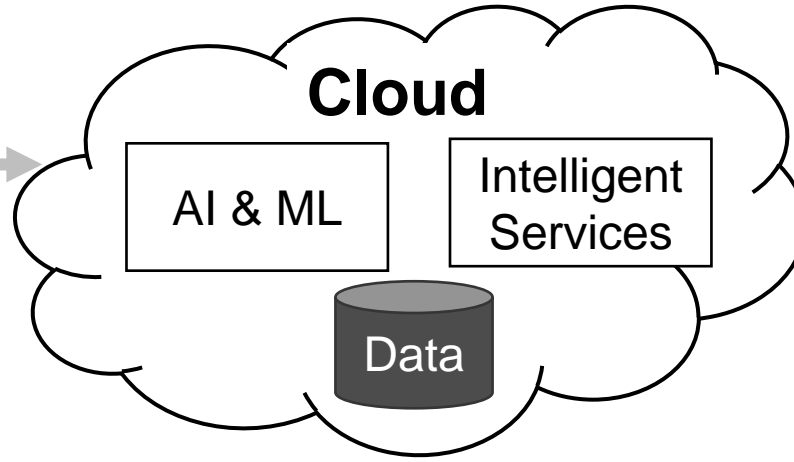
# Onboard

# Cloud

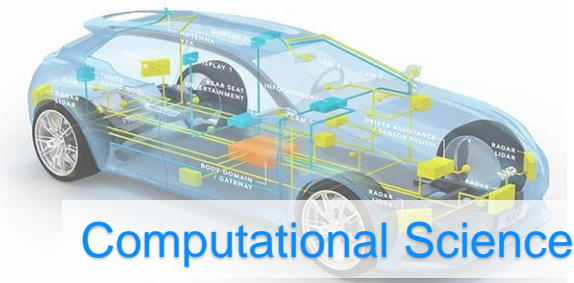
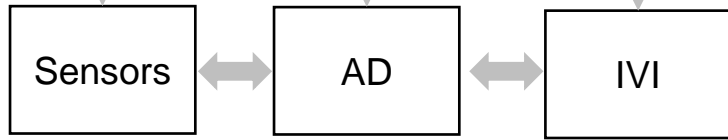
# Offboard

AD

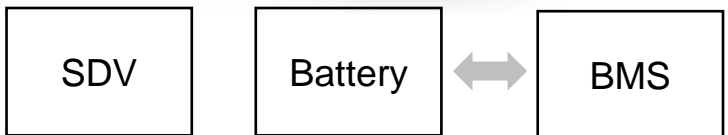
User Experience



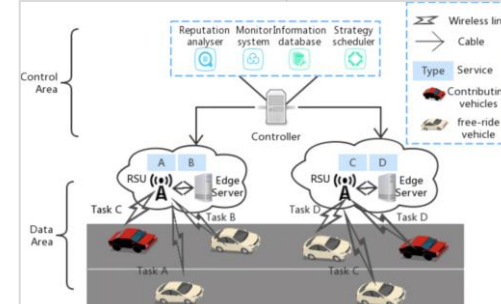
Data Science + AI Algorithms



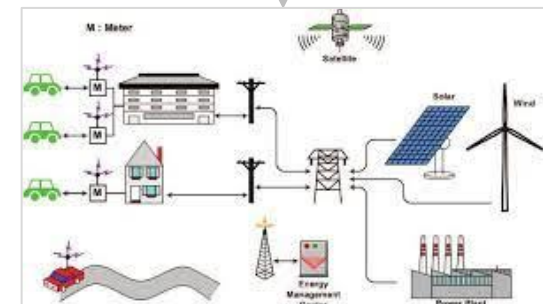
Computational Science



Remote Supervision



Connected V2X



Vehicle-2-Grid



# Evolution of driver assistance technology

FY23

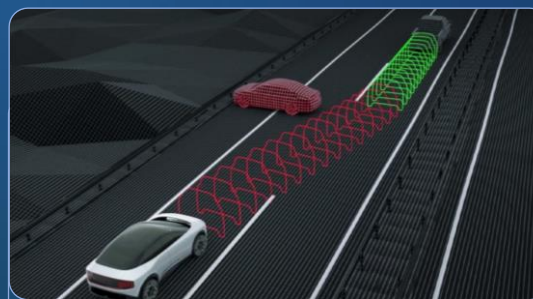


## ProPILOT 2.0

For confident and fatigue-free drive

- Camera and Radar sensing
- In-house control software

FY27



## Next gen ProPILOT

Expanded to door-to-door driving

- Ground truth perception with LiDAR
- Cloud-based AI

FY30



## Future ProPILOT

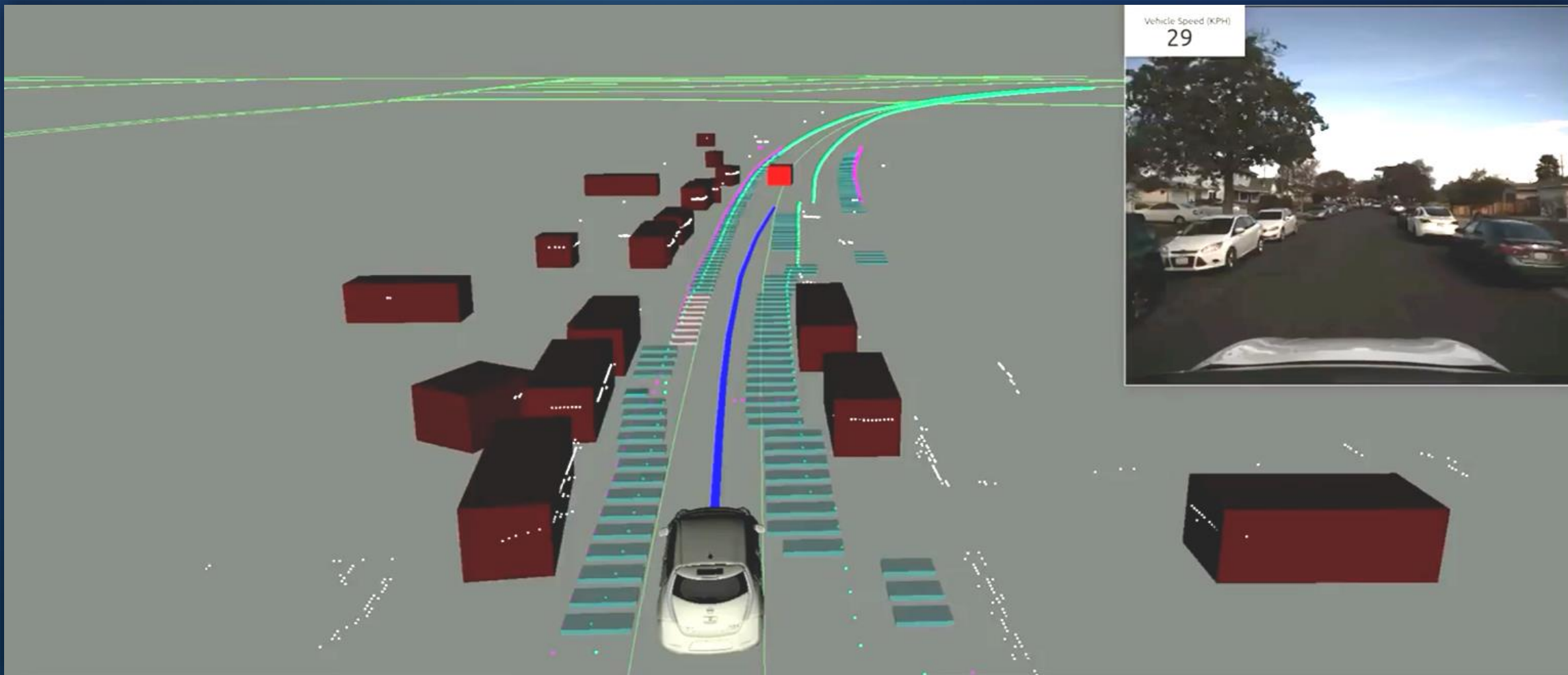
Towards goal of zero fatalities

- Fusion of active safety and generative AI technologies

# Evolution of driver assistance technology

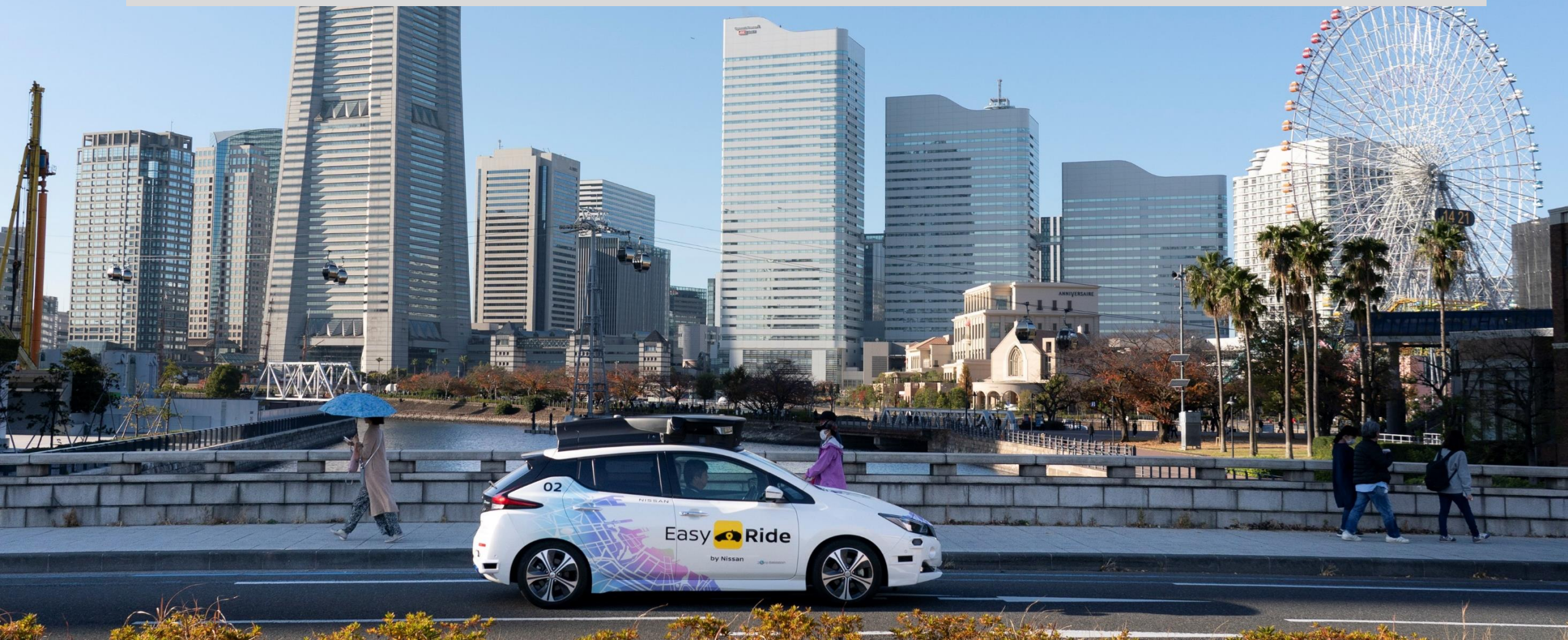


# Evolution of driver assistance technology





# Toward commercialization of driverless mobility services





# Mobility needs vary by region

Mobility for regionally different transportation infrastructure and mobility needs are desired



Public transportation



Mobility



Car

