## Toyota: Creating a "Zero Accident Society" with Three-Pronged Approach & Seamless Communication









(Human Machine Interface)

Three-Pronged Approach



**Understanding & Predicting Human Behaviors. Providing Assistance & Control** 







**Wireless Communication** 





Computing Infrastructure

Software **Platform** 

APP APP

HW HW

(LiDAR, other)

**On-board Sensors** 

**Mobility Al Platform** 

Infrastructure

Sensors



**High-Precision Positioning** 

**Weather Forecast** 

A-ITS: **Human-Centric, Communication-Cooperative ITS** 

## **Service Examples**



**Driving Assist for Pedestrian Protection** 



**Driving Assist for Bicycles/Scooters Protection** 



**Intersection Mutual Yielding Control** (Eye Contact)



In collaboration with diverse partners,

Toyota aims to be an enabler of a "Zero Accident Society"



Remote-controlled **Autonomous Driving** 



Infrastructure-Cooperative **Autonomous Driving** 



**Personalized & Attentive Driver Support** 



**Prevention of Poor-visibility Accidents** 



**Expressway Smooth Merging Support**