Predictive Driving Support

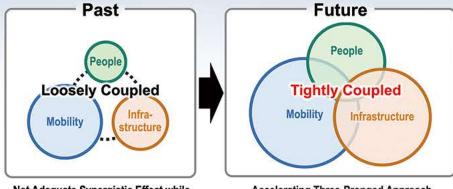
Background

Challenges for Infrastructure-Collaborative Technology

- High cost of building infrastructure
- Low adoption → Less benefit → Future non-adoption
- Preventing accidents with pedestrians and bicycles
- Approach to improving traffic flow

Evolution of Three-Pronged Approach

 The potential for preventing accidents through collaboration between people, mobility and infrastructure is greater than ever before.



Not Adequate Synergistic Effect while there were initiatives to connect People, Mobility and Infrastructure.

Accelerating Three-Pronged Approach to achieve "ZERO Accident Society"

Concept & Technology

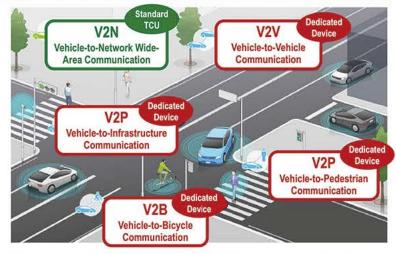
Proposed Approach to Infrastructure Collaboration

V2N (Vehicle-to-Network) Communication

- Communication is possible with a telematics control unit (TCU).
- Data distribution to smart phones is also possible.
- · Carries risk of communication delays.

V2X (Vehicle-to-Other) Communication (V2V, V2P, V2B etc.)

- Needs dedicated onboard equipment and road infrastructure.
- Enables real-time communication.



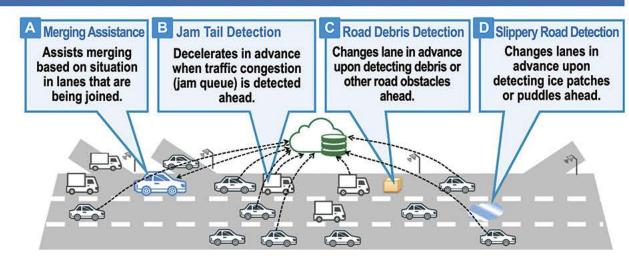
Leverage strengths of standard TCU while maximizing benefits of V2N, smart phone, and V2X communication.

⇒ Start by using each technology where it can help, while continuing to reduce risk of communication delays.

Future Action

Create Predictive Services for Ever-Safer Highway Driving

- Merging Assistance
- B Jam Tail Detection
- Road Debris Detection
- Slippery Road Detection



Merging Assistance Example

