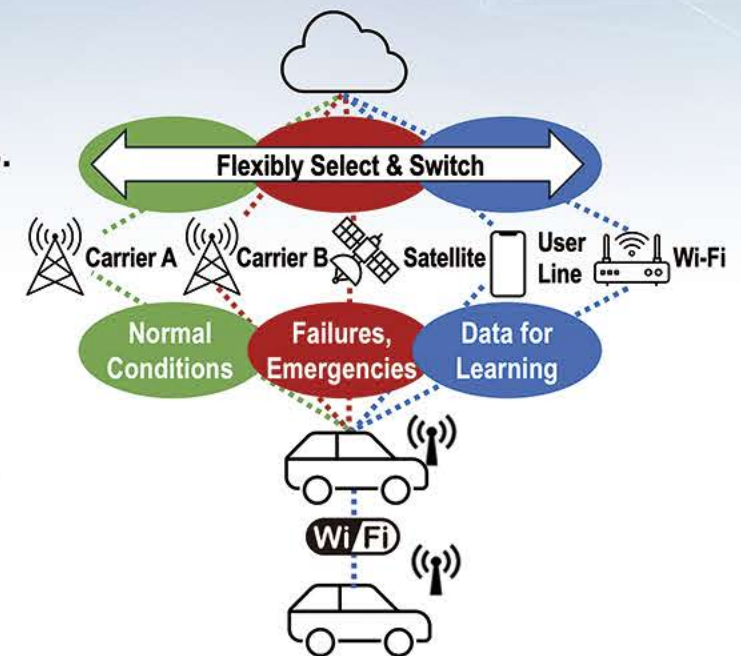


High-Volume & Speed V2V Communication (Wi-Fi)

Background

- In pursuit of a *Zero-Accident Society*, Toyota is studying ways to flexibly select and use the optimal means of communication for different automotive uses and situations.
- For example, vehicle-to-vehicle (V2V) Wi-Fi communication can be used to share high-resolution images, sensor information, and other data hosted by partnering vehicles, at high volumes and speed.
- The capability for high-volume high-speed communication increases the amount of information that can be handled, greatly contributing to safer and more secure mobility.

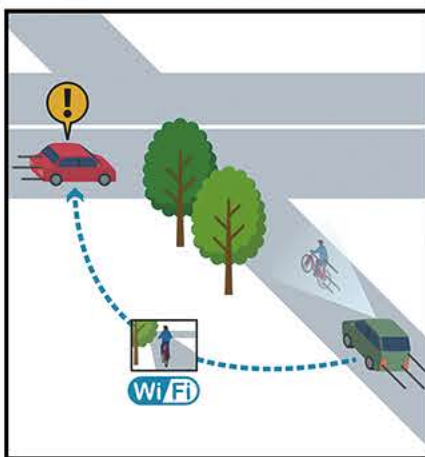


Concept & Application Examples

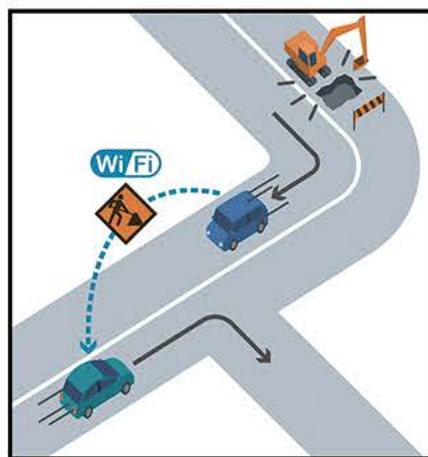
- Directly share information about the road ahead while driving, between own and other vehicles.
- Optimize the data sent and augment communication in signal dead zones, by using vehicle-to-vehicle (V2V) systems as a conduit for data center transmissions.

Direct Sharing Between Vehicles (V2V)

Sharing Data on Risks Hidden in Blind Spots

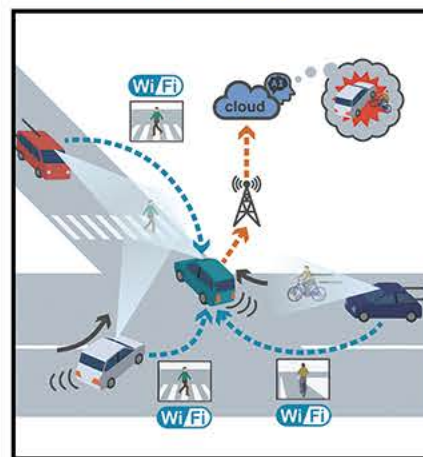


Sharing Traffic & Road Condition Information

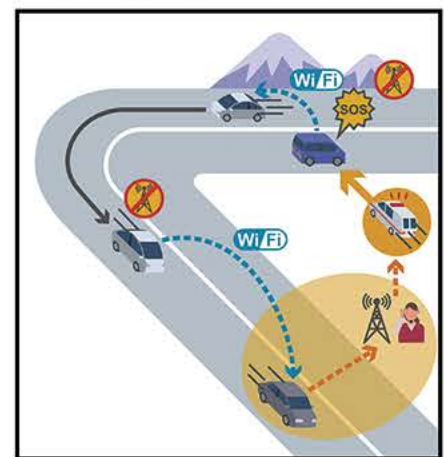


Data Center Communication Via V2V Systems

Uploading Consolidated Sensor Information



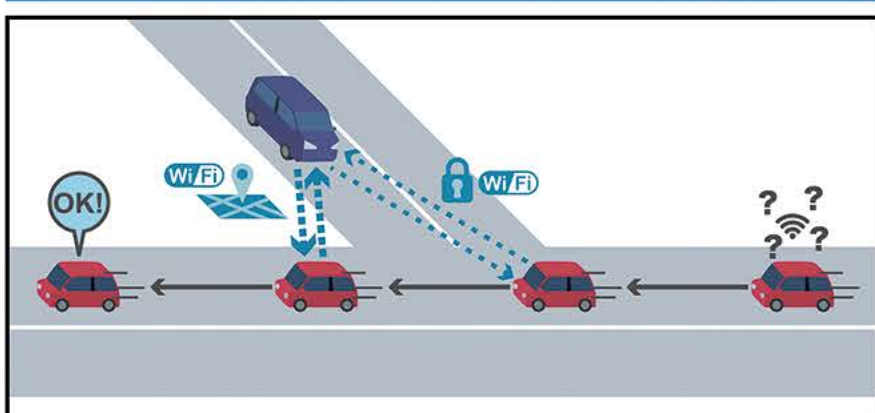
Emergency Notification in Signal Dead Zones



Future Action

- Develop technology that enables connectivity between vehicles passing in opposite direction.
- Increase the scope of available connection hosts to improve usability and convenience.

Early & Secure Communications Connectivity



Cross-Brand (OEM) Connectivity Compatibility

