

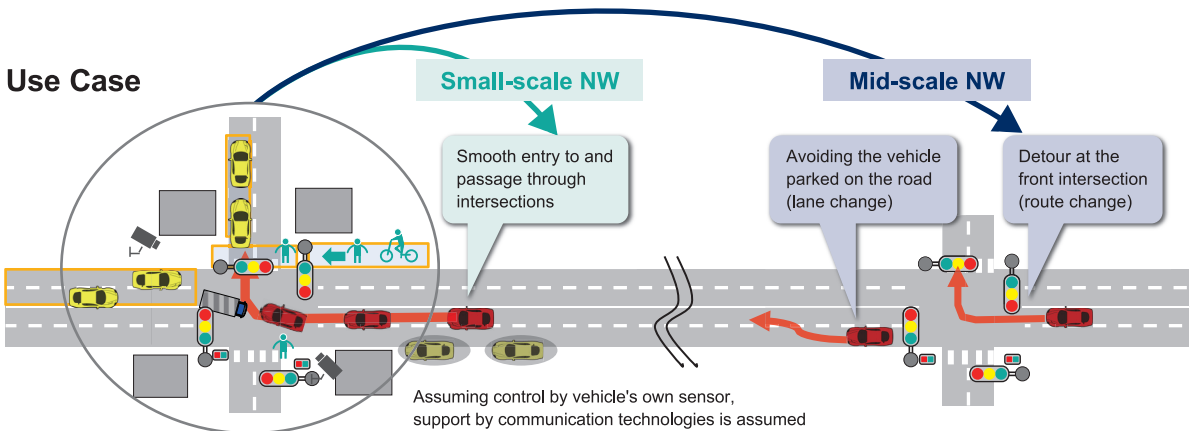
# Optimized Processing for Dynamic Road Information by V2X with Multi-Scale Architecture

Optimizing the information process with multi-scaled network through the combination of V2X technology and roadside sensing technologies

**Introduction**

Recognition of non-line-of-sight (NLOS) and out-of-range road situation is highly in demand for automated driving system. V2X technology combined with roadside sensing technologies enables vehicles to behave more safely, smoothly and intelligently.

**Use Case**



**Abstract**

Optimization of processing methods (Collection, Integration and Distribution) for dynamic road information by introducing multi-scale network architecture (Mid-/Small-scale NW)

**Mid-scale NW**

Optimization of distribution method over multiple Small-scale NWs with high consistency

**Small-scale NW**

Optimization of collection and integration methods of sensor data for dynamic road information with different wireless systems

Mid-scale wireless system  
5G / 4G

Short-scale wireless system  
DSRC, LTE-V2X, 5G, WiGig

Distribute only the necessary information according to the position and speed of each vehicles

