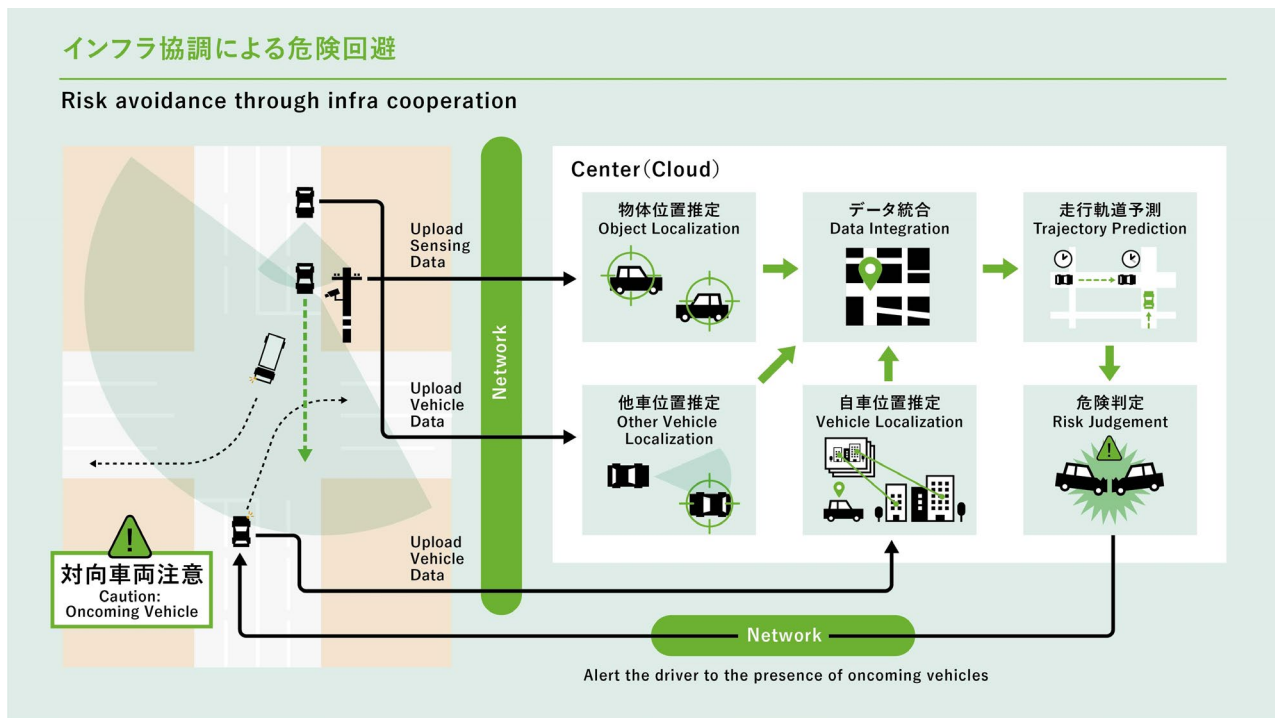


Cooperative sensing between infrastructure and vehicles for a security and safety society

Risk avoidance through infrastructure cooperation

Background and Technical Challenges

Advances in vehicle sensors and driver assistance systems have reduced traffic accidents. However, sensing limited to vehicles has limits. To realize for a security and safety society safety systems must cooperate with infrastructure.



R&D Goals and Outcomes

Roadside-vehicle sensing visualizes blind spots in real time to reduce accidents and near-misses.

Key Technologies

01 Core Technologies

Roadside-vehicle sensing recreates road conditions including blind spots in a digital twin and warns of collision risks seconds ahead.

02 Key Differentiators

Leveraging point-cloud data and high-precision maps enables highly accurate position estimation compared with GPS and related methods. Visualizing road conditions in real time on the cloud.

Use Cases Mobility & Transportation

R&D phase Development

Technology Schedule FY25–26

Commercialization Schedule FY27–29

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