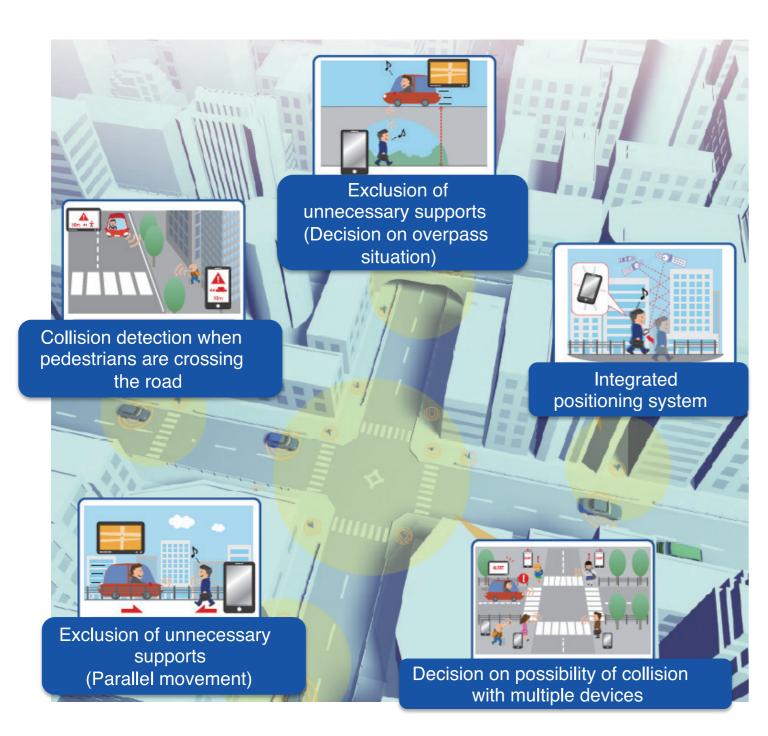
Connected Vehicles

V2P(Vehicle-to-Pedestrian)Communication+Prototype and basic verification for demonstration experiment

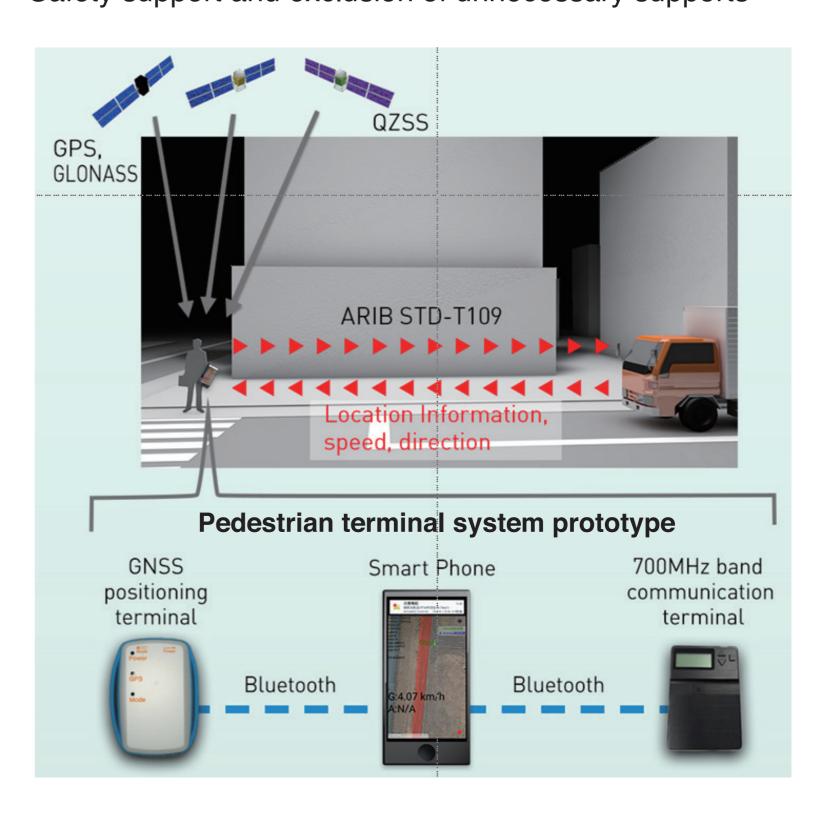
Objective

Reduce traffic accidents especially involving VRUs through realizing direct V2P communications that supply supports to both pedestrians and drivers timely and appropriately.



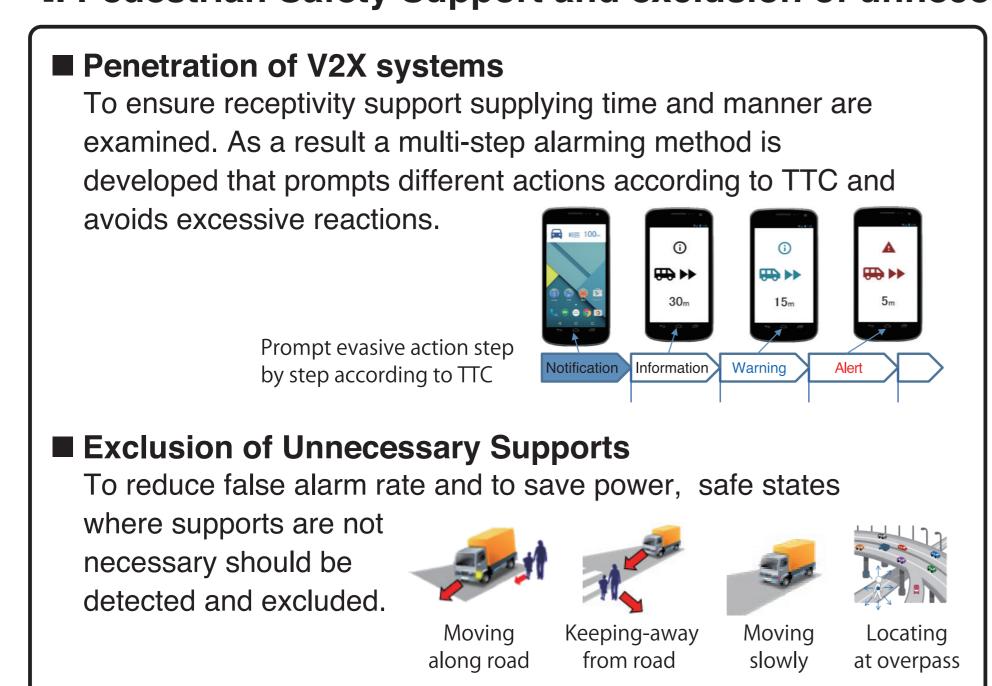
Key technologies of V2P

- 700MHz band communication
- High-accuracy positioning
- Safety support and exclusion of unnecessary supports



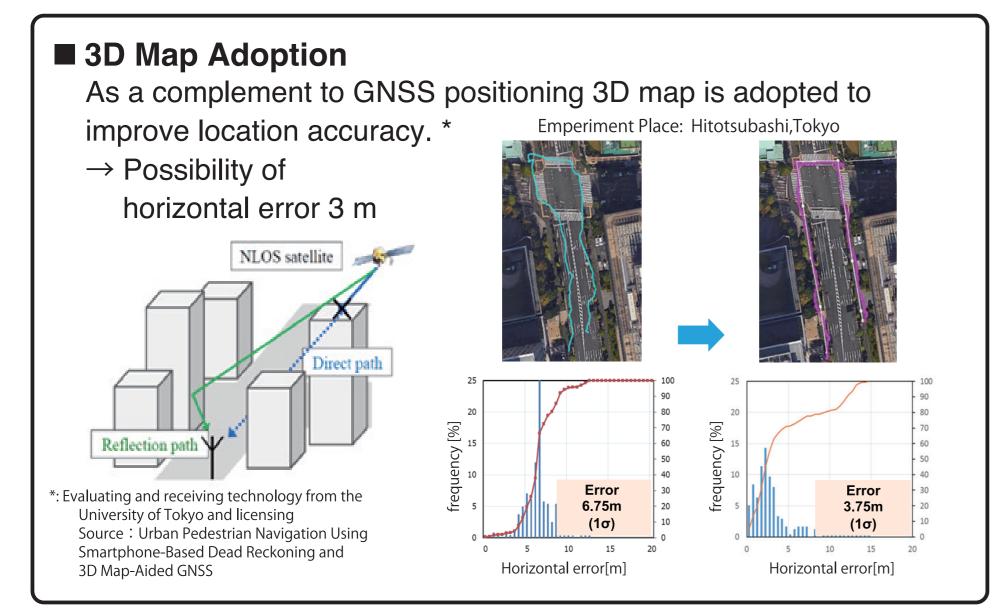
■ R&D Progress (FY2016)

I. Pedestrian Safety Support and exclusion of unnecessary supports



■ Results of Experiments Experiments at test field (JARI) and at public road Information provision time Provision of Information when pedestrians are 250 crossing a one-lane road We confirmed stepwise support from experiment results. -20 -15 Time of infomation provision [s] (The predicted collision time is 0[s]) Unnecessary Locating Result **Support Exclusion** at overpass Moving along road Cause orientation inaccuracy during stationary \triangle Keeping-away <Same as above> \triangle from road Moving slowly \bigcirc Locating \bigcirc Misjudgment in the middle of the slope at overpass

II. High-accuracy positioning



Confirm effectiveness by experiment

