



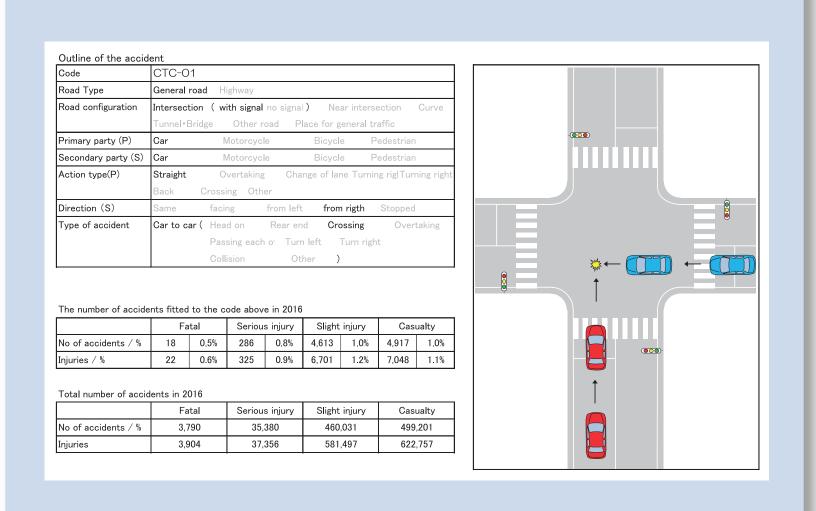




Efforts to reduce pedestrian traffic accidents

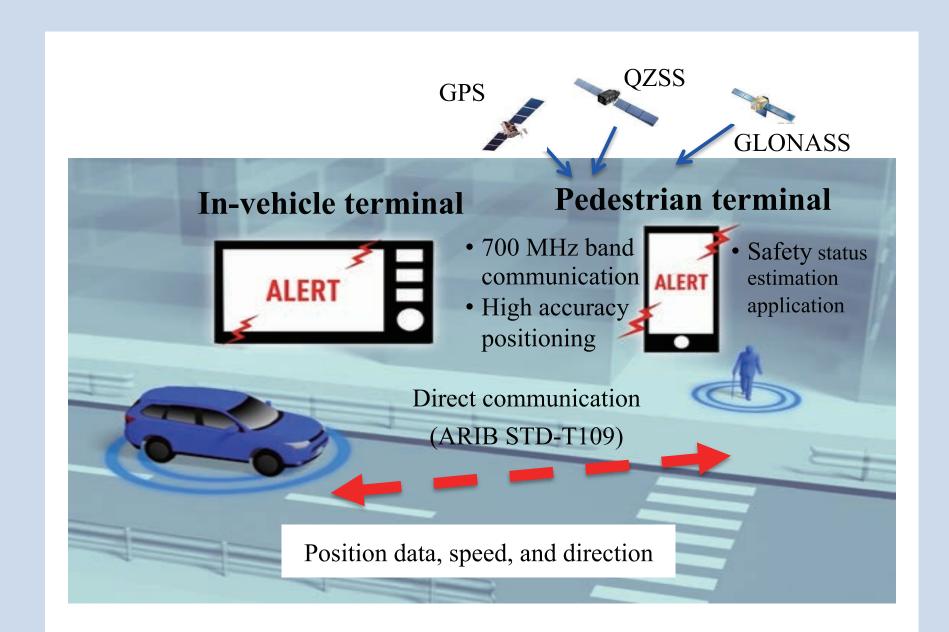
Overview

National database for traffic accident patterns



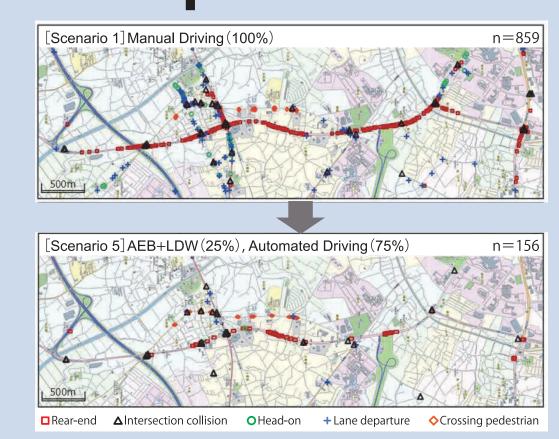
- Classified traffic accidents into 255 patterns
 - ✓ Published as national database

Vehicle to Pedestrian(V2P) **Communication Technology**



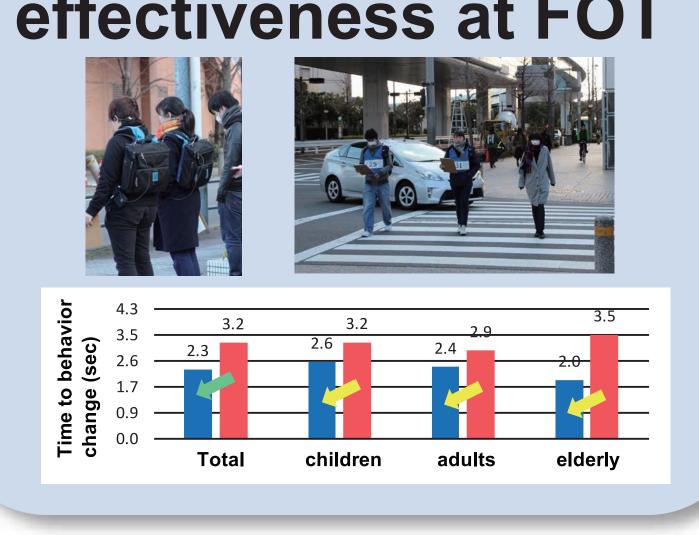
Realization of a safety support system for pedestrians to reduce traffic fatalities

Simulation to predict the impact of ADS*



*ADS: Automated Driving Systems





National database for traffic accident patterns

Patterning of J-TAD

To estimate ADAS effectiveness, J-TAD* was classified by 255 patterns to cover 80% of fatalities in 2013, using classifications below. And they have been kept for fixed point observation. However, because of decreased rate(75% in 2016), patterns will be modified and finalized to improve this rate to more than 80% as the national accident database.

*Japan Traffic Accident Database

Table 1 Item and classification for patterning

ltem	Classification
Type of Collision	Head on, Rear end, Crossing, Single, Vehicle to pedestrian, Vehicle to bicycle, etc.
Primary Party	Car, Motorcycle, Bicycle, Pedestrian
Secondary Party	Car, Motorcycle, Bicycle, Pedestrian
Type of Road	General road, Highway
Location	Intersection, Near intersection, Curve, Straight, Bridge, Tunnel, Others
Traffic Control	Signal, Stop sign, No control
Traveling Maneuver of Primary Party	Go straight, Turn left, Turn right, etc.
Relative position of Secondary Party	Same direction, Opposite direction, Right side, Left side, Others

Sample of Accident Pattern

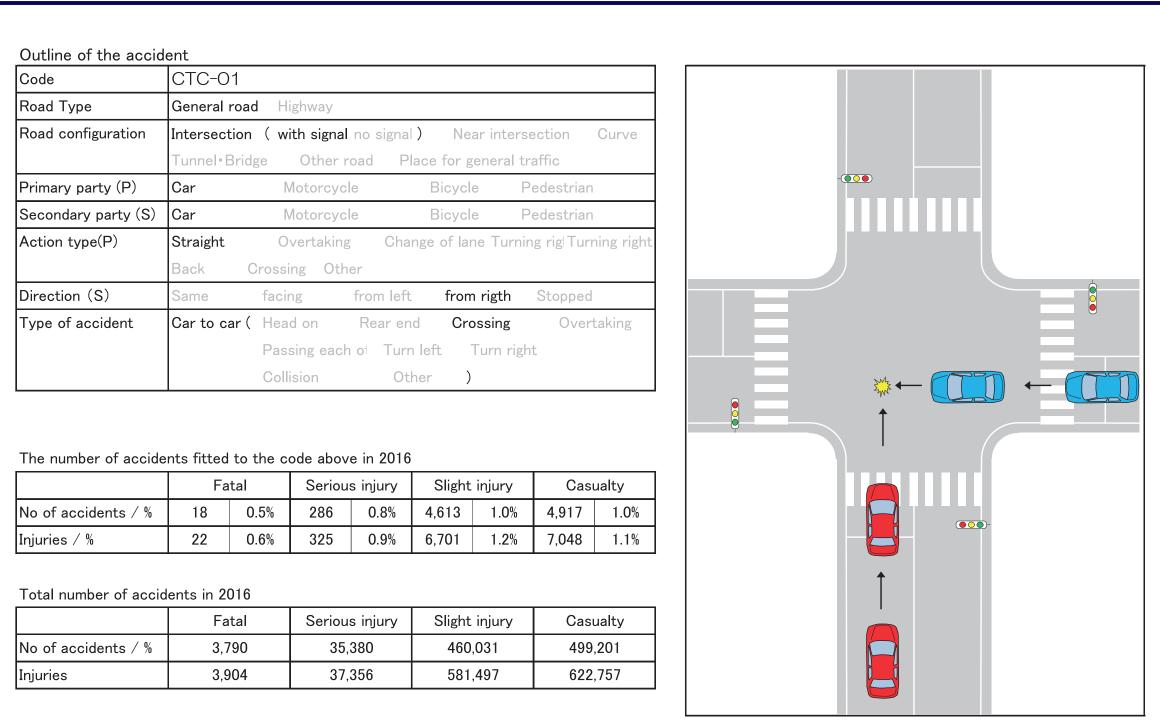


Fig.1 Accident pattern sheet (CTC-01)

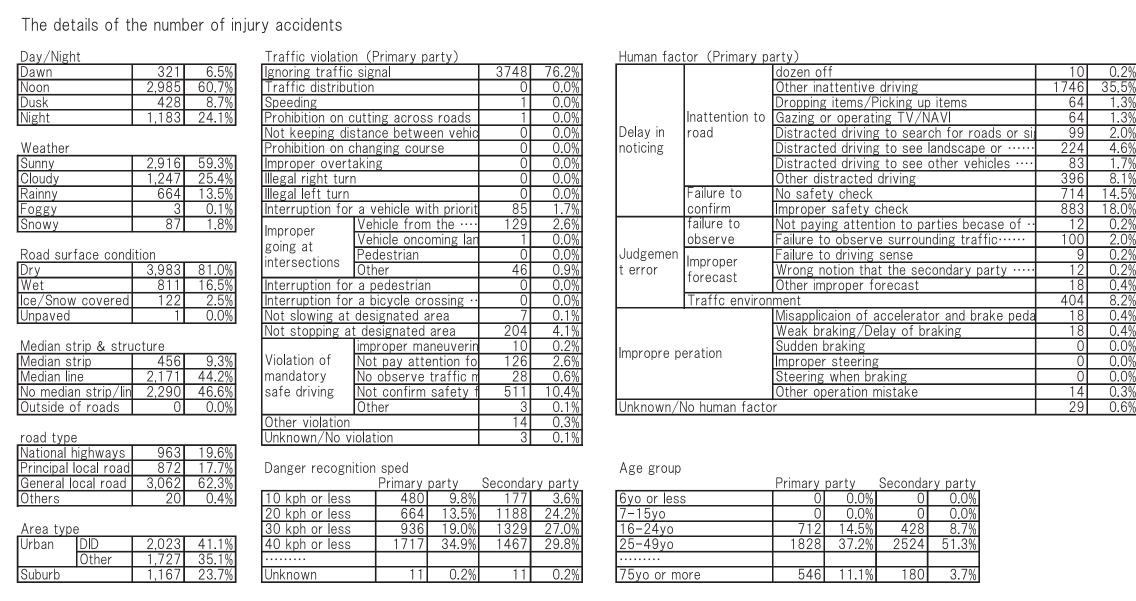


Fig.2 In-depth analyzed sheet (CTC-01)

This database was also used by another organization for SIP-adus study.

