

Safe and Sound Network Technology

Objective

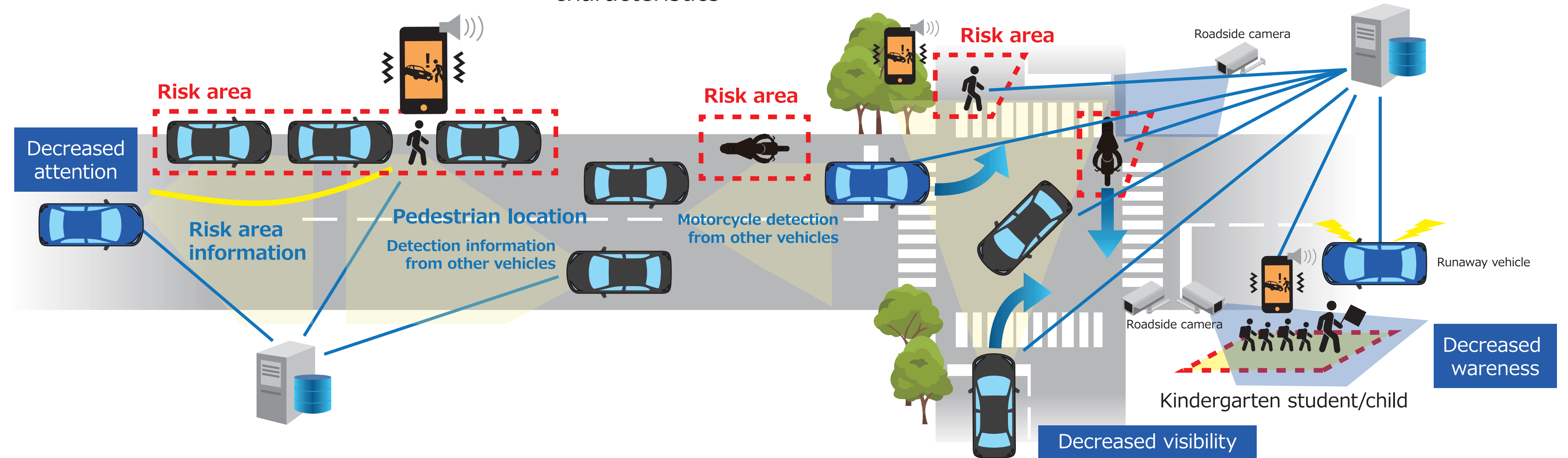
Aim for the achievement of a traffic society where no one collides by providing appropriate information according to the respective conditions of road users and traffic situations by utilizing communication technology.

Technology Content

Avoids accidents in advance through technology that estimates the behaviors and conditions of all road users and judges them in an integrated manner to predict risks.

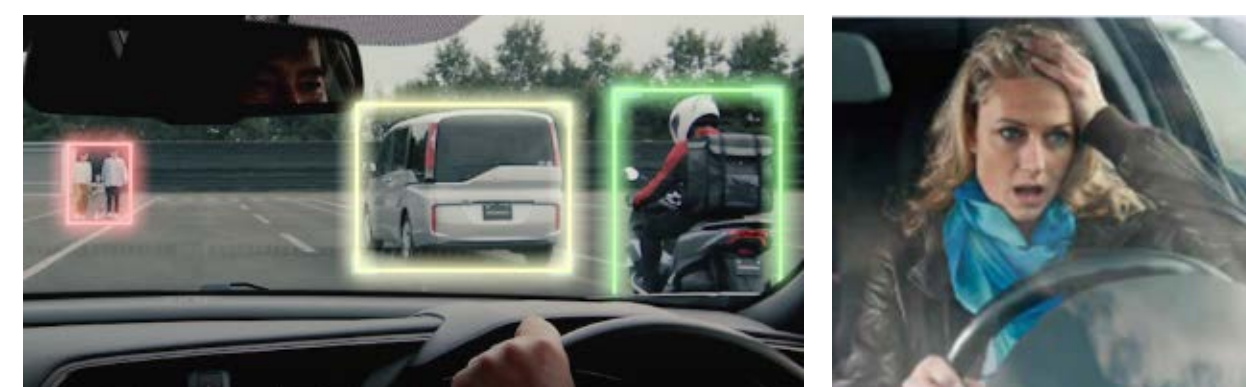
Technical Features

- Connects with all road users through the utilization of telecommunication
- Consolidates risks hidden in the traffic environment through camera/probe information
- Transmits risk information appropriately in accordance with individual conditions and characteristics



Environment/Human Sensing

Predicts behavior/Understands the situation



Predicts hidden dangers from vehicle behavior

Predicts hidden dangers from vehicle behavior

Estimates the individual conditions of all road users

Cooperative Platform

Digital Twin

Integrates the information groups consolidated on the server into a map

High	Dynamic	• Road user locations and individual conditions
	Semi-dynamic	• Presence of parked vehicles • Broken-down vehicle/traffic congestion information
	Semi-static	• Personal characteristics of traffic participants • Regulatory information/weather information
Low	Static	• Lane information



Integrated Risk Judgment Algorithm

Estimates the behavior and conditions of road users and judges them in an integrated manner to predict risks.



Cooperative Risk HMI

Vehicle HMI

Pedestrian/motorcycle device HMI



Builds good relationships with the surroundings by sharing effective intentions

Proceed with the standardization of cooperative platforms with industry/public/private sector joint efforts for early social implementation.