

How the technology in the transport and ITS field could facilitate road safety and mobility conditions

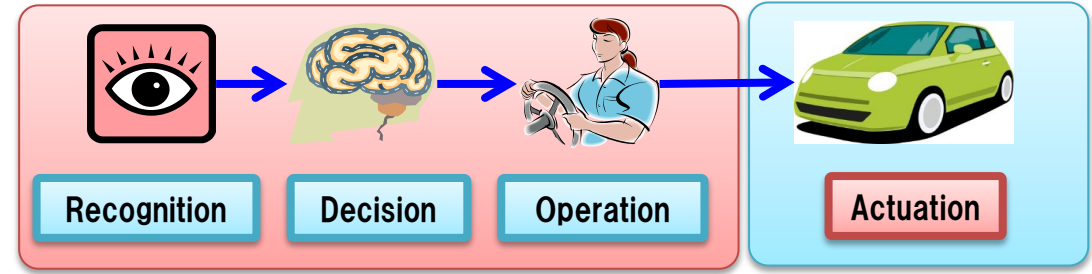
Autonomous driving technology area

Table 1. Driver-, Vehicle-, and Environment-Related Critical Reasons (NTSB:2015)

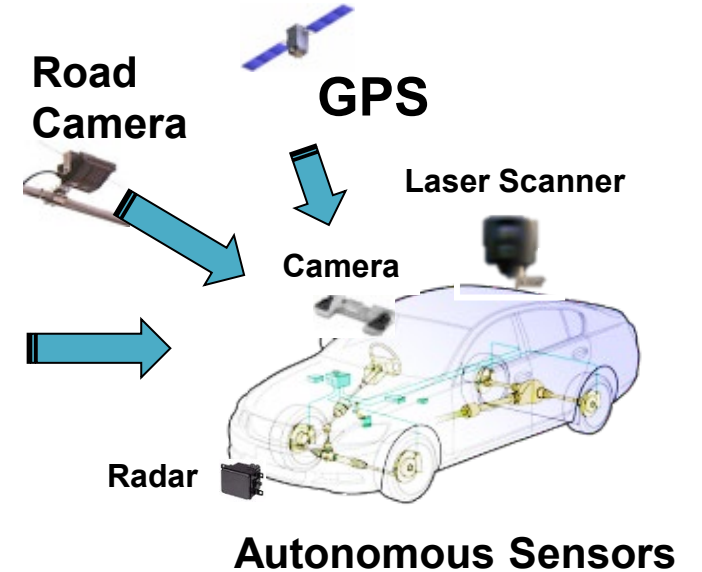
Critical Reason Attributed to	Estimated Percentage*
Drivers	94% ± 2.2%
Vehicles	2% ± 0.7%
Environment	2% ± 1.3%
Unknown Critical Reasons	2% ± 1.4%
Total	100%

Table 2. Driver-Related Critical Reasons

Critical Reason	Estimated Percentage (Based on 94% of the NMVCCS crashes)
Recognition Error	41% ± 2.2%
Decision Error	33% ± 3.7%
Performance Error	11% ± 2.7%
Non-Performance Error (sleep, etc.)	7% ± 1.0%
Other	8% ± 1.9%
Total	100%

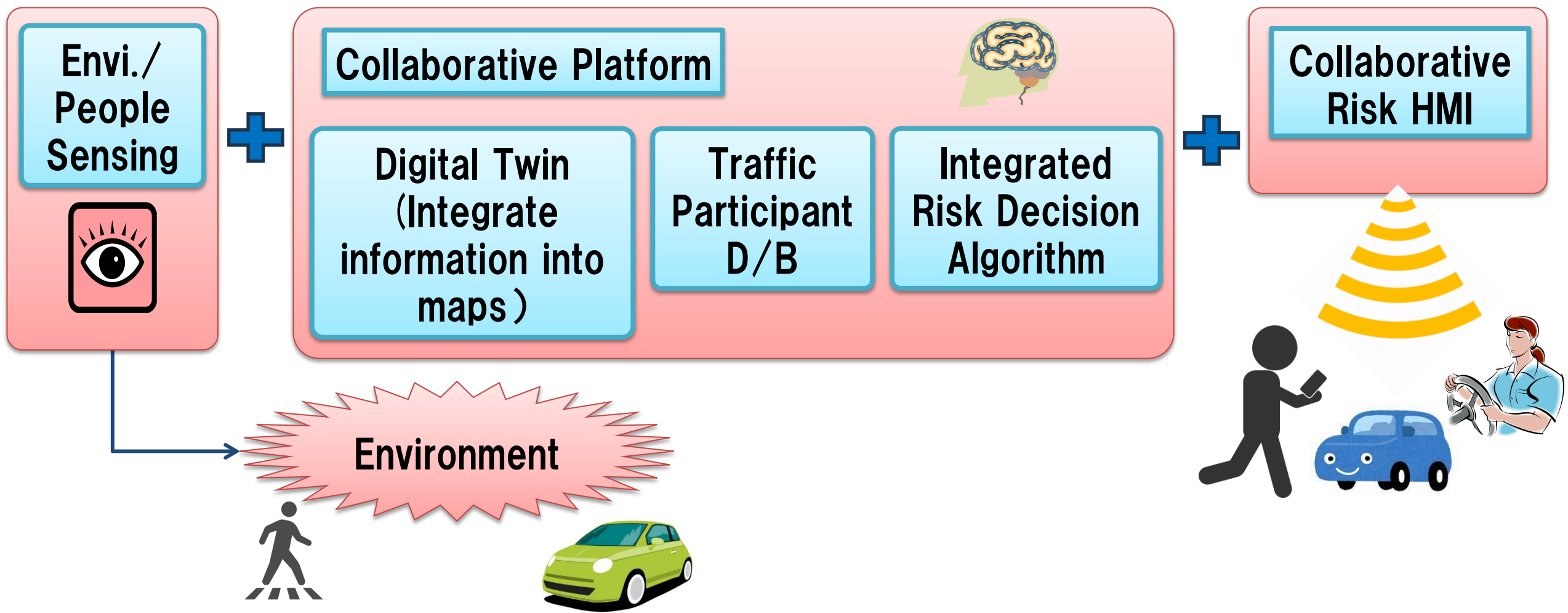


Dynamic map



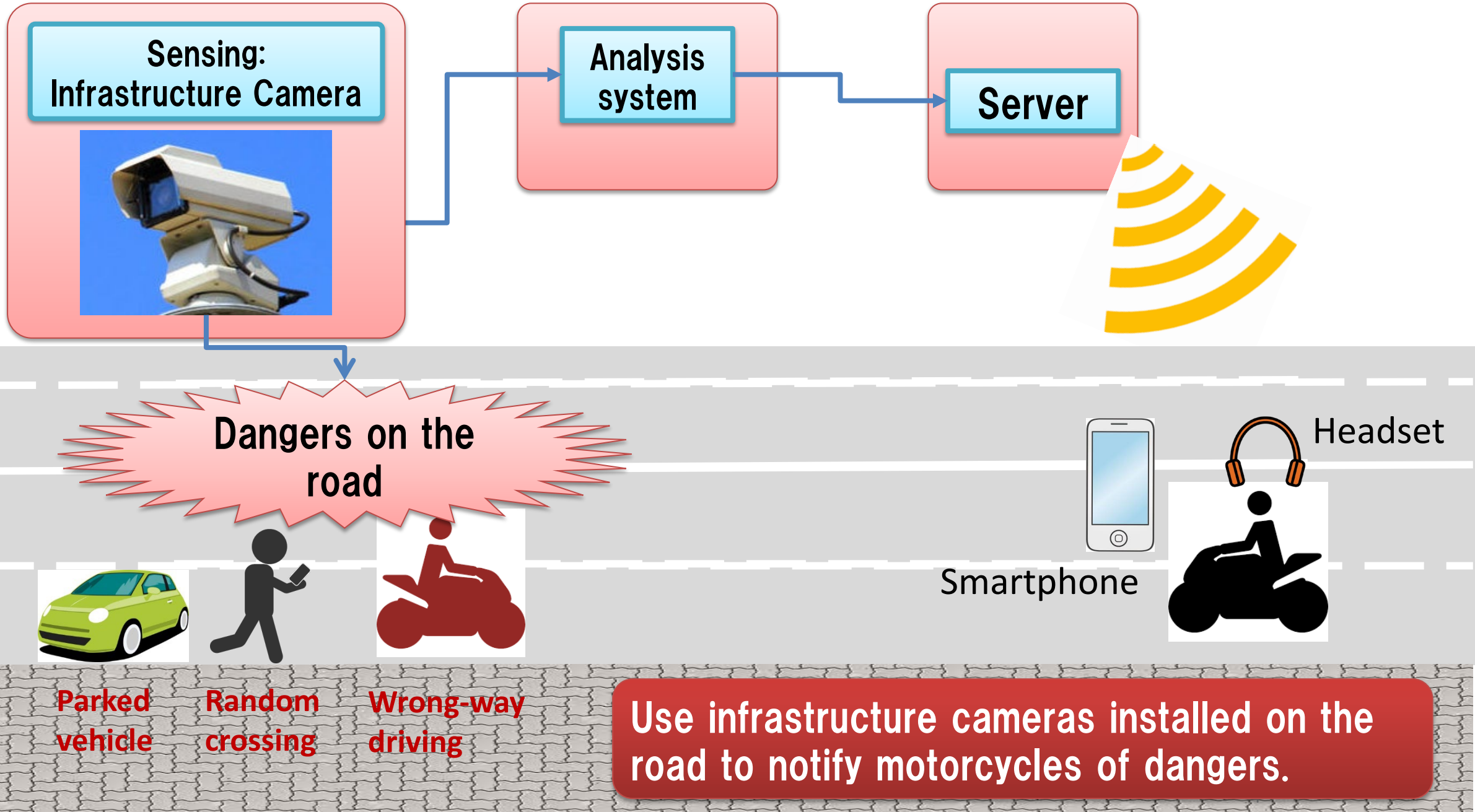
Traffic safety technology that used in autonomous driving is also evolving day by day.

Traffic safety network technology



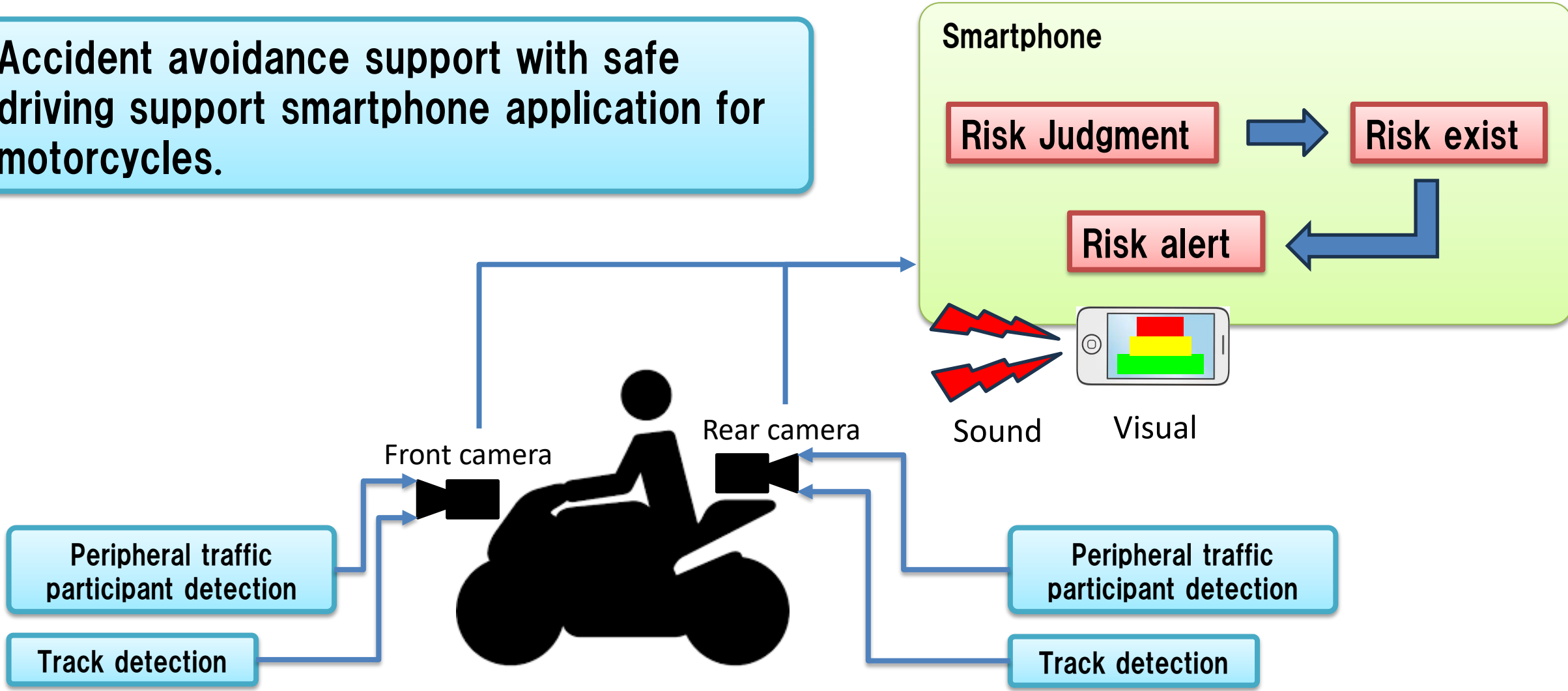
To avoid collisions, communication technology is used to understand the situation of all traffic participants, anticipate risks, and distribute risk information to related traffic participants.

Motorcycle safety driving support technology



Motorcycle safety driving support application

Accident avoidance support with safe driving support smartphone application for motorcycles.



Predicting the behaviors of traffic participants from the front and rear cameras of motorcycles and communicating future risks.

**Thank you
For your attention.**

