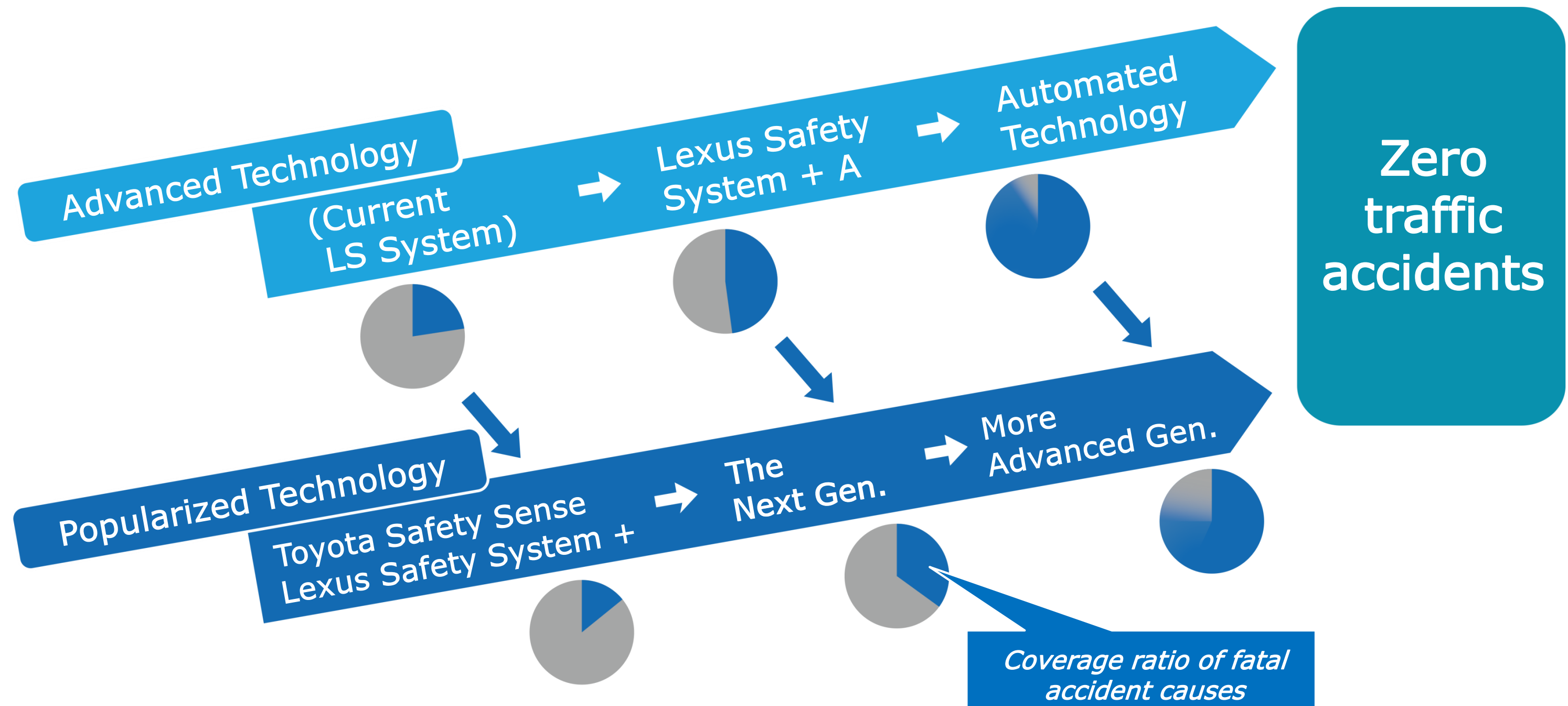


Technical trends of driver assistance and automated driving

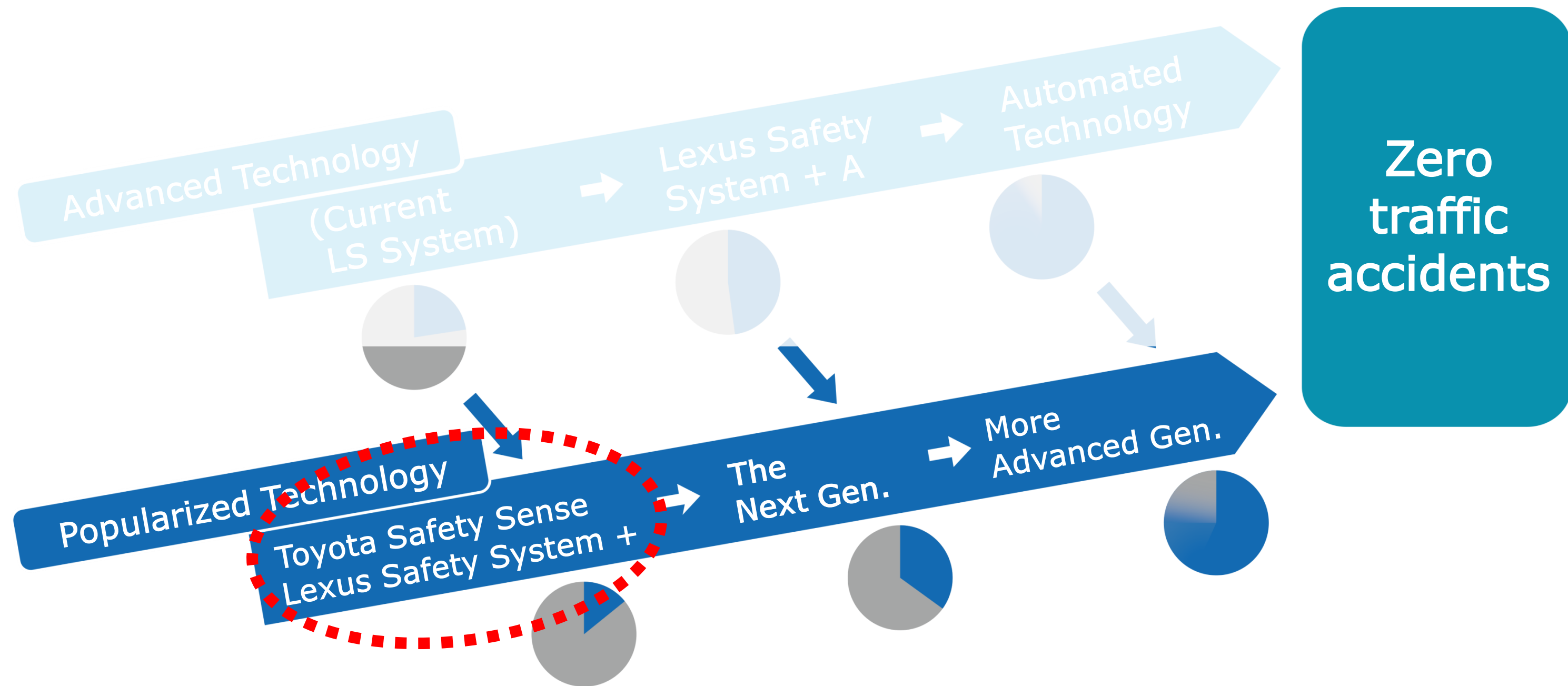
Vincent Legagneur

**Senior Specialist European & Government Affairs
Toyota Motor Europe**

Two-Axis Approach

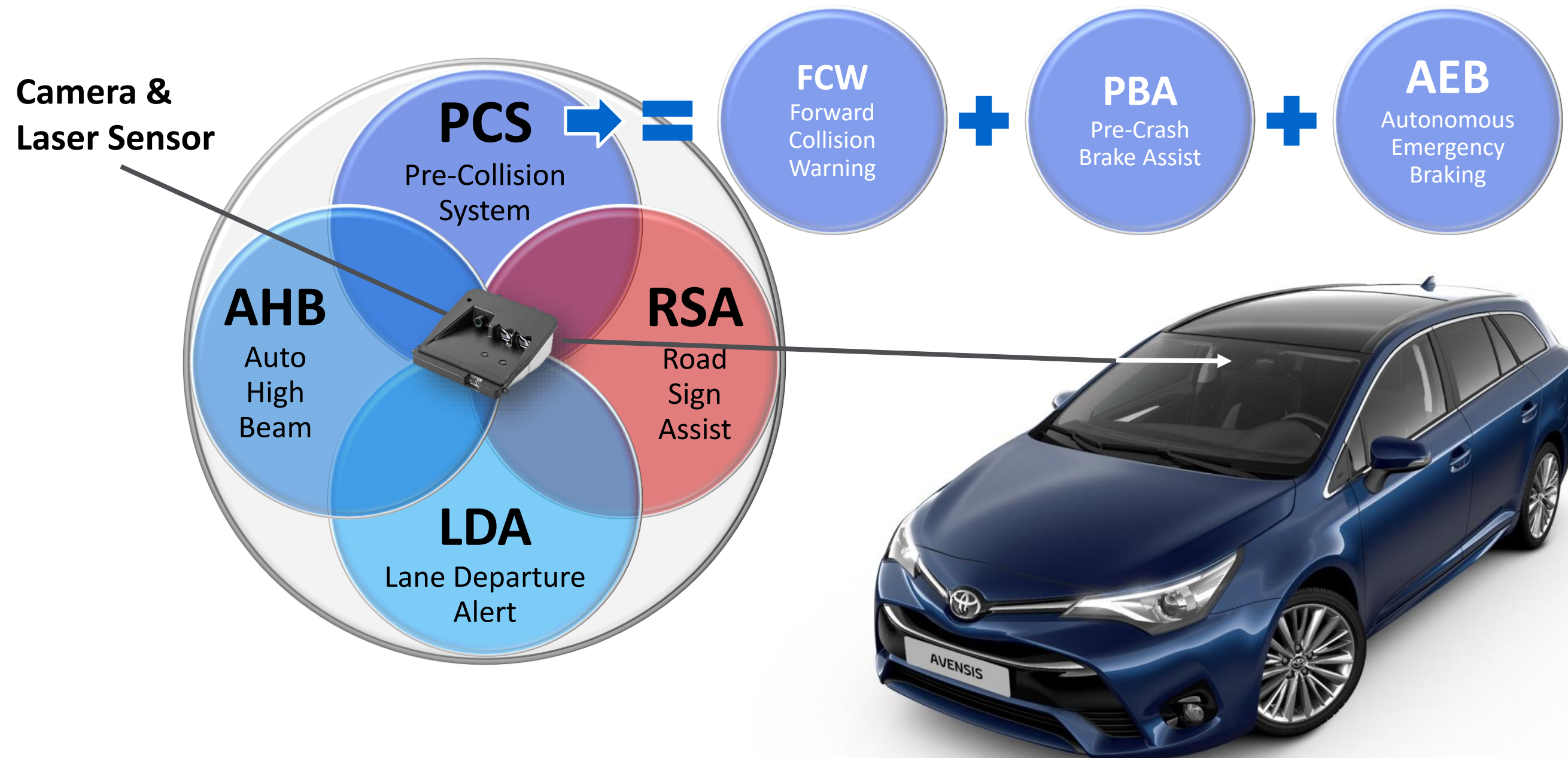


Two-Axis Approach



Toyota Safety Sense - Overview

6 Active Safety Technologies



Toyota Safety Sense - Functions



**Pre-collision
system**



Road sign assist



Lane departure alert



**Automatic high
beam**

Toyota Safety Sense - Functions



**Pre-collision
system**



Road sign assist

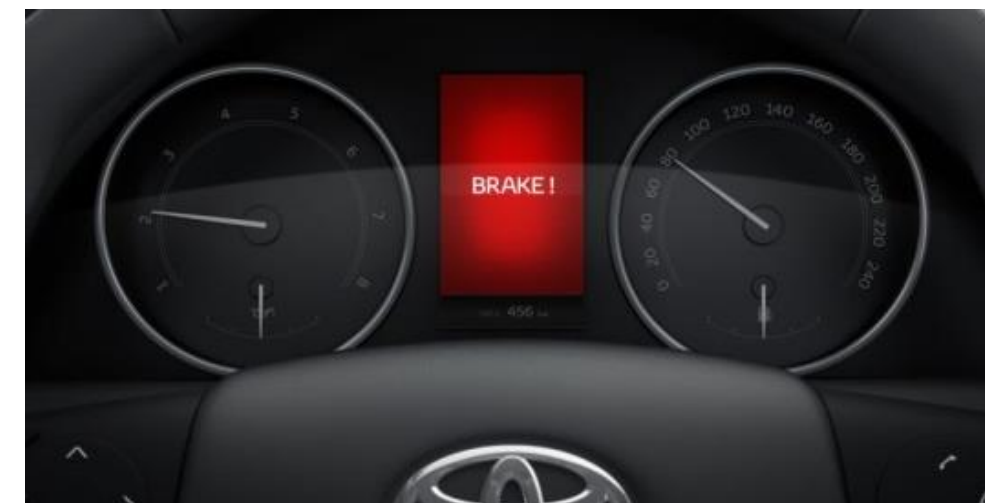


Lane departure alert



**Automatic high
beam**

=
Forward Collision Warning
+
Pre-Crash Brake Assist
+
Autonomous Emergency Braking



Toyota Safety Sense - Functions



Pre-collision
system



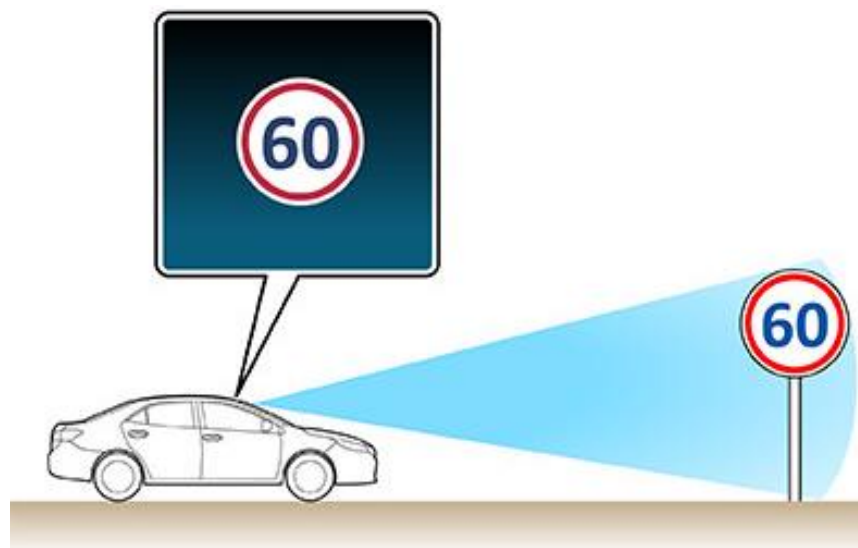
Road sign assist



Lane departure alert



Automatic high
beam



Toyota Safety Sense - Functions



Pre-collision
system



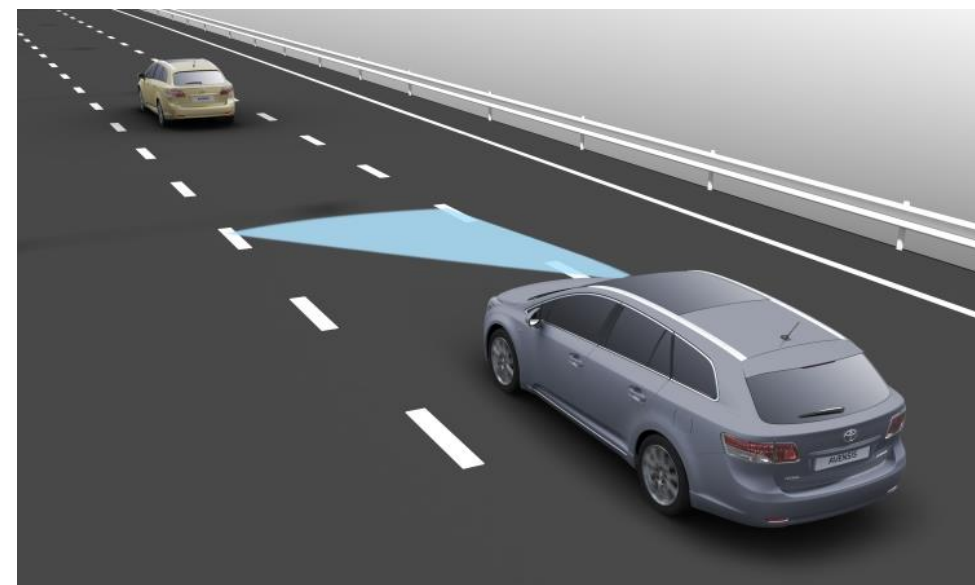
Road sign assist



Lane departure alert



Automatic high
beam



Toyota Safety Sense - Functions



Pre-collision
system



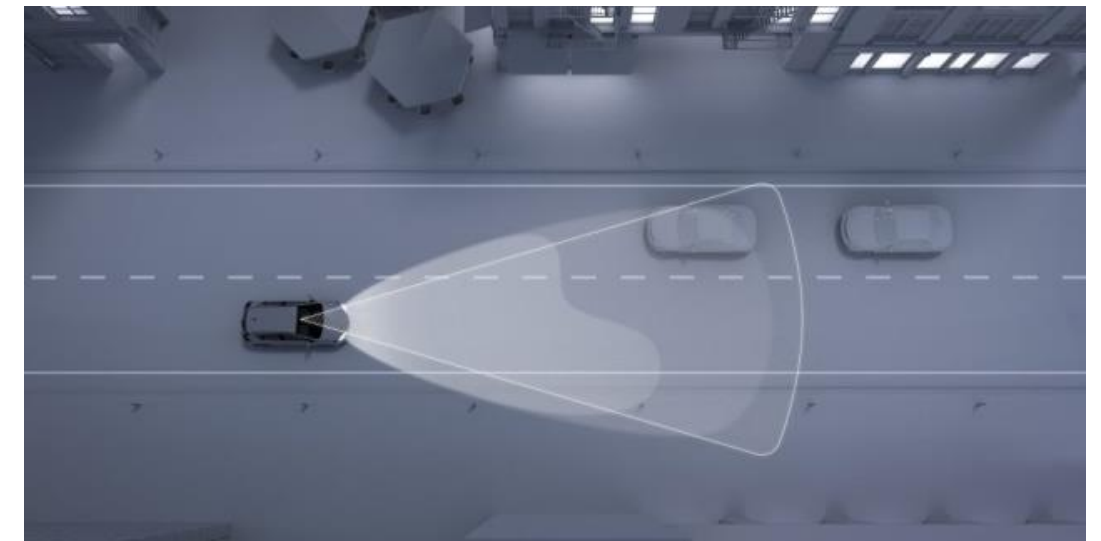
Road sign assist



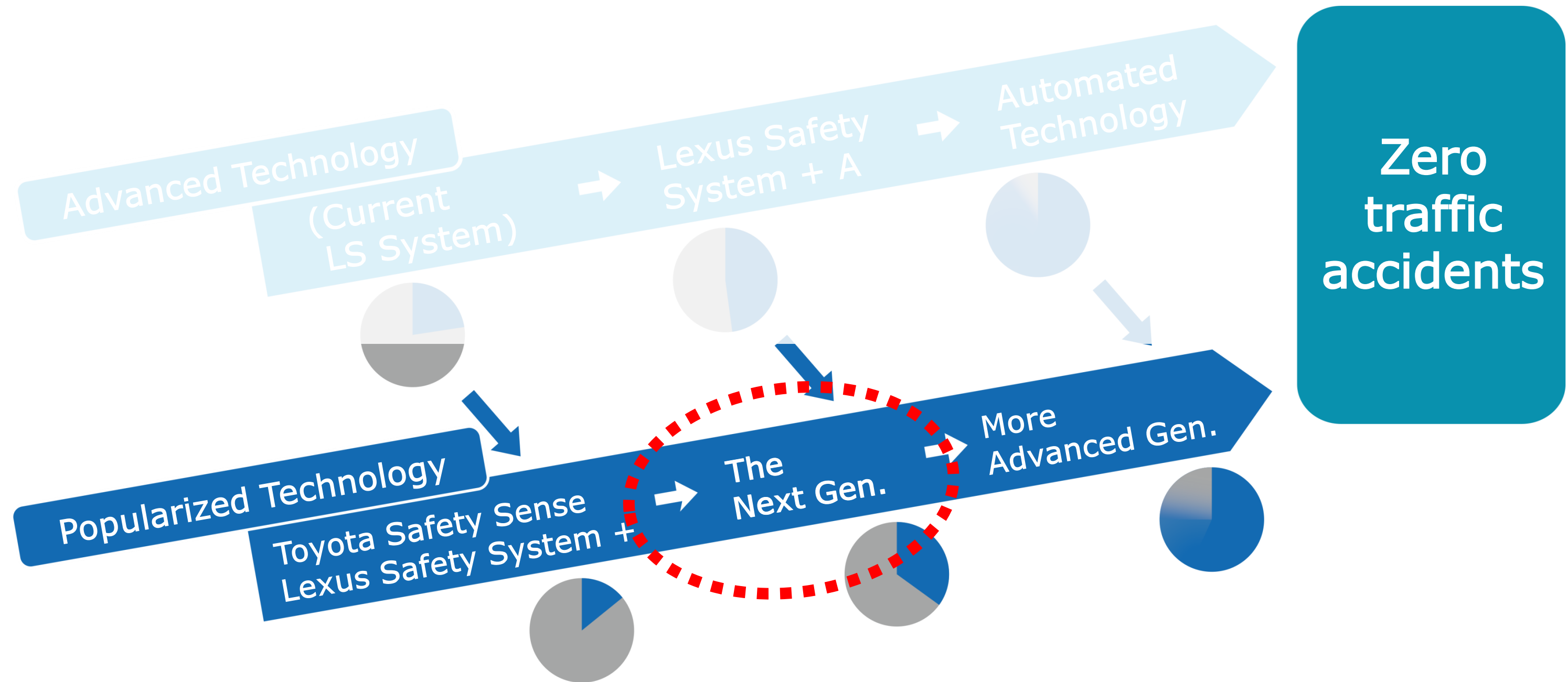
Lane departure alert



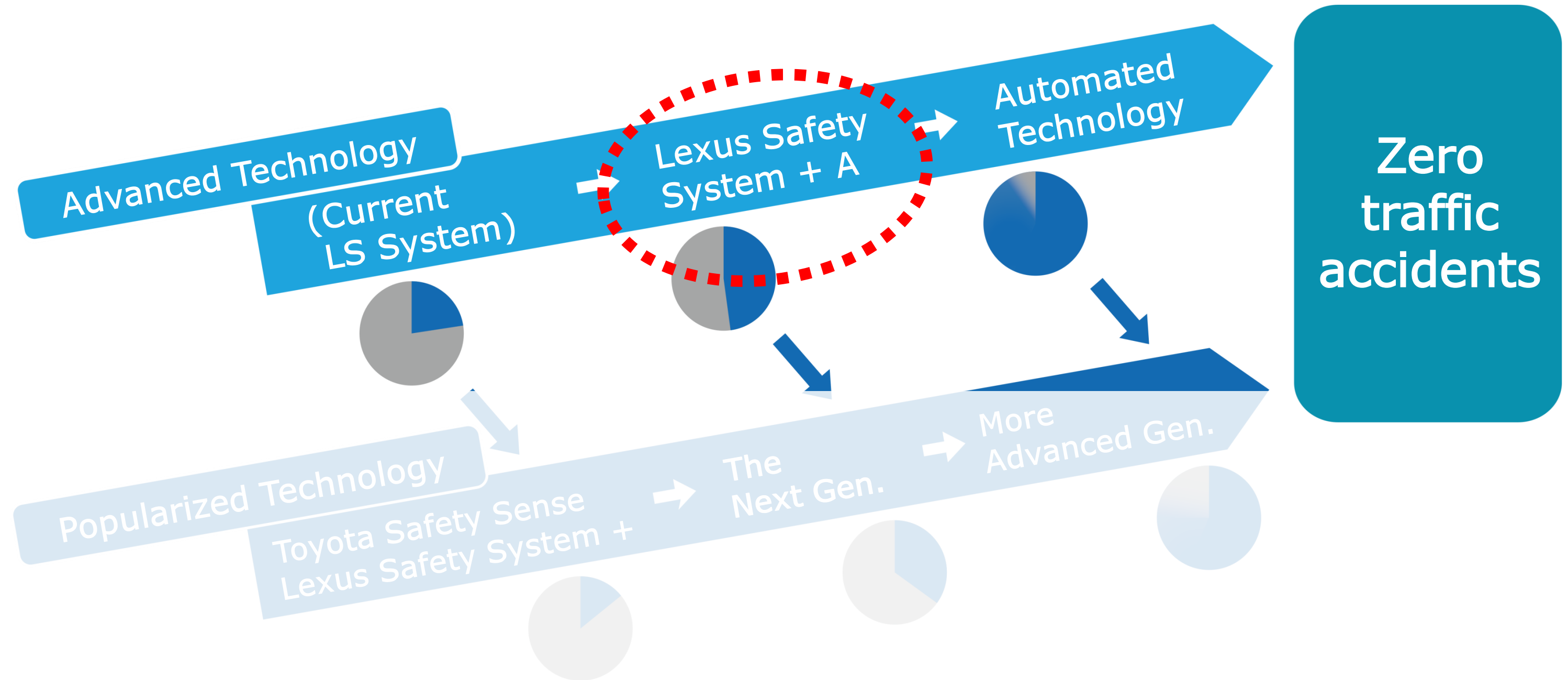
**Automatic high
beam**



Two-Axis Approach

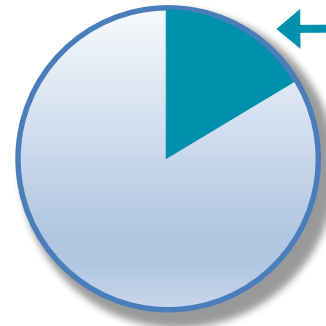


Two-Axis Approach



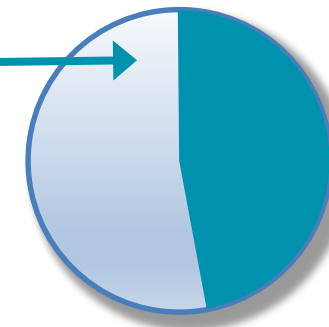
Lexus Safety System + A

Lexus Safety System +
Toyota Safety Sense



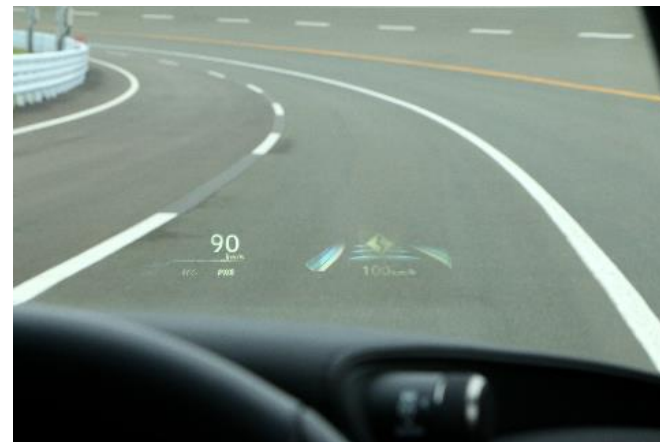
Coverage ratio of fatal
accident causations

Lexus Safety System + A



*Calculated by TOYOTA
based on the data from
ITARDA, 2014*

Lane Tracing Assist + Lane
Change Assist



Parking Support Brake

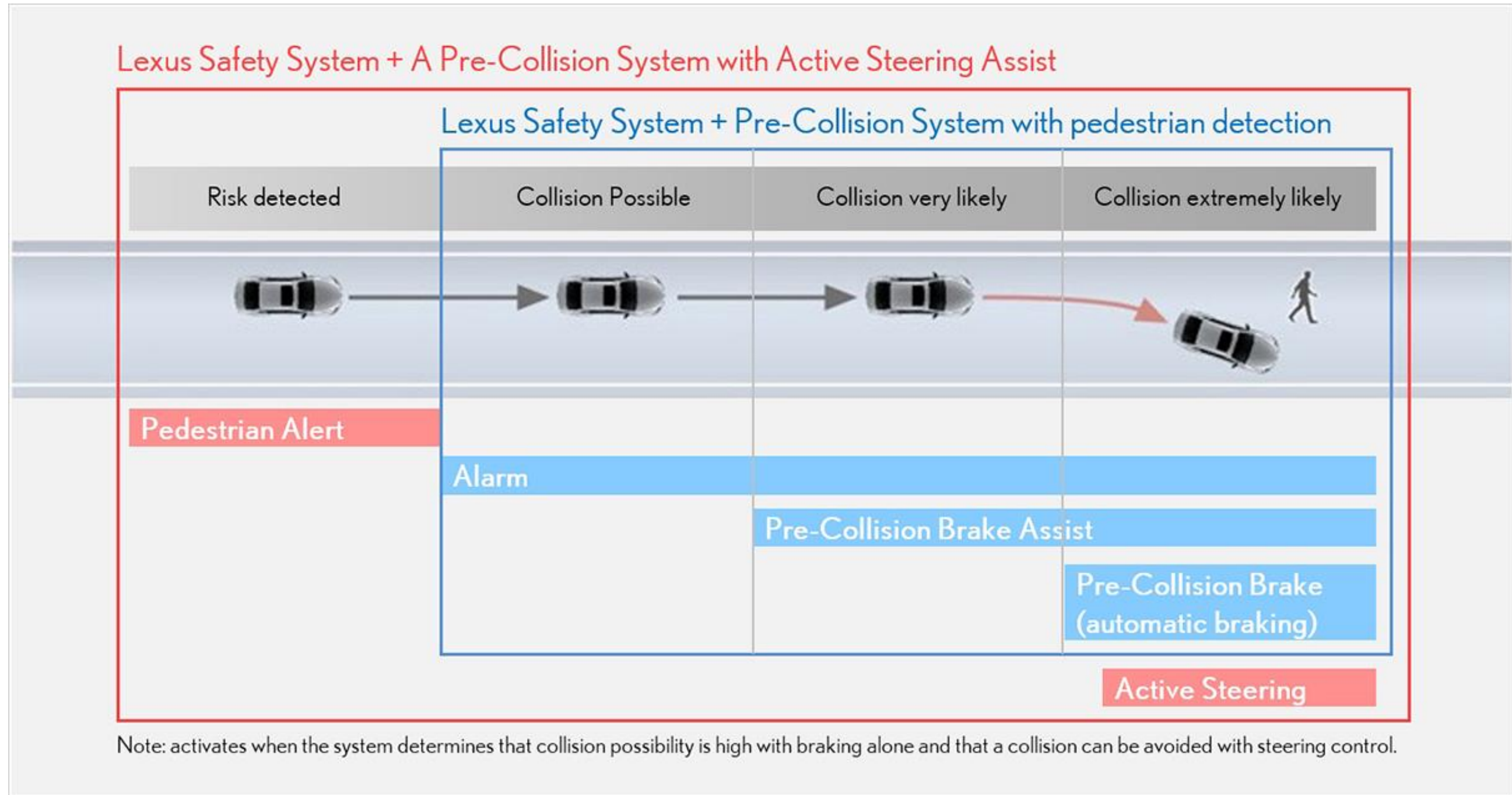


Pre-Collision System with
active steering

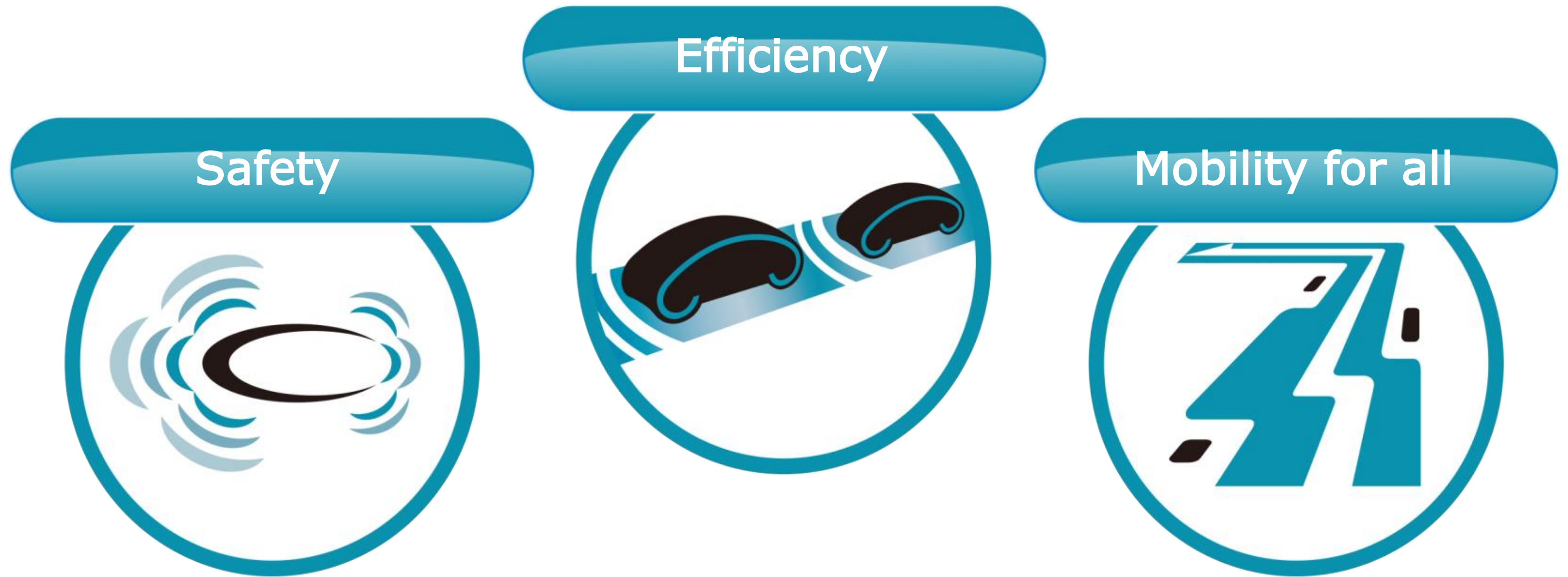


etc.

Pre-Collision System with Active Steering Assist



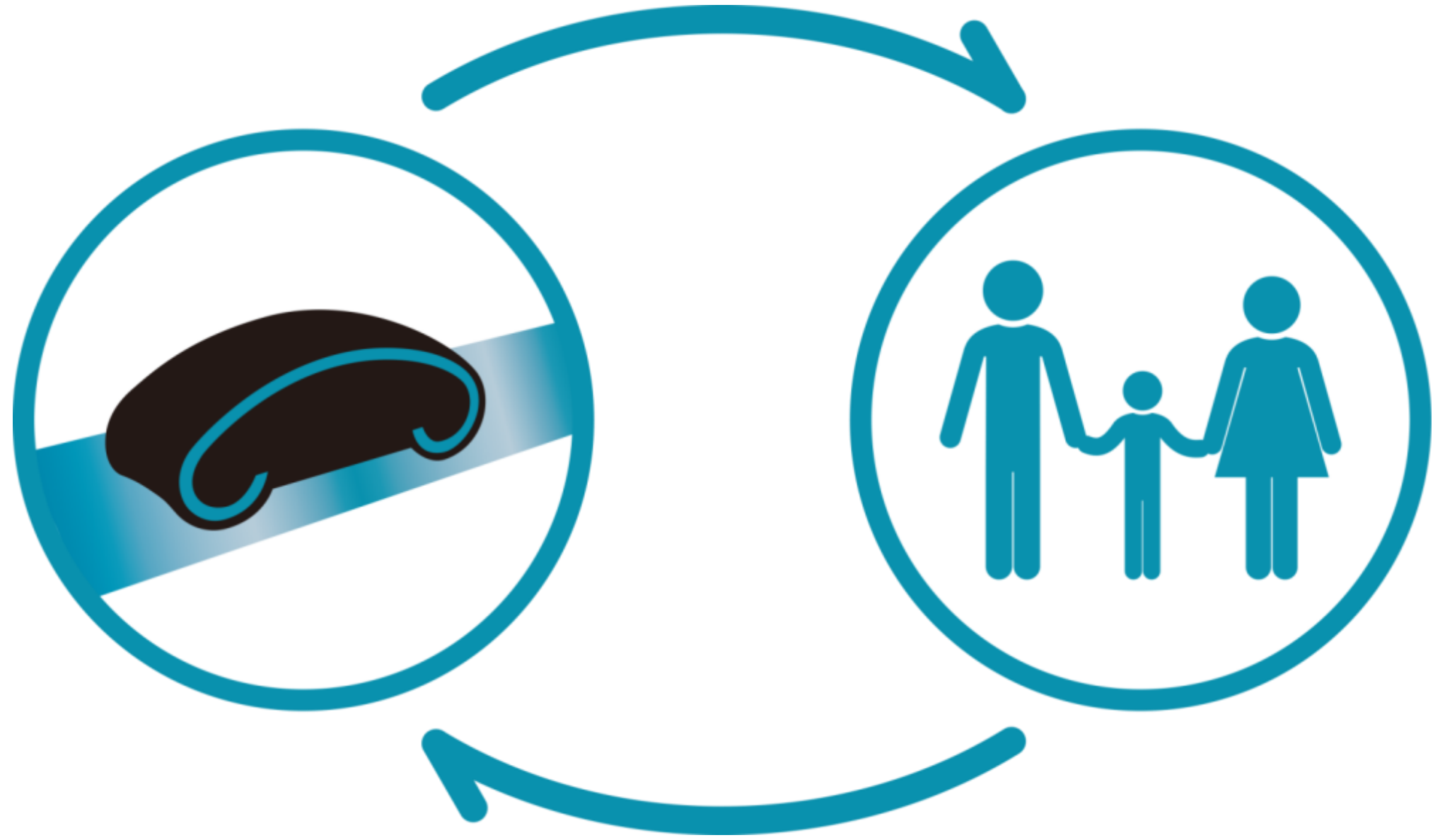
Automated Driving with offer...



Mobility Teammate Concept



**MOBILITY
TEAMMATE
CONCEPT**
Automated Driving Tech.



A solution

Chauffeur

Driven by a system

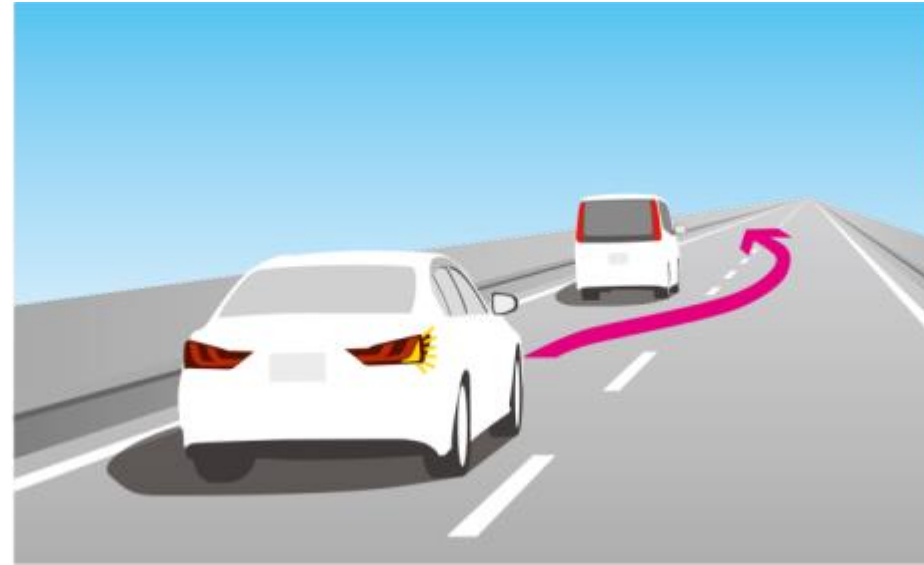
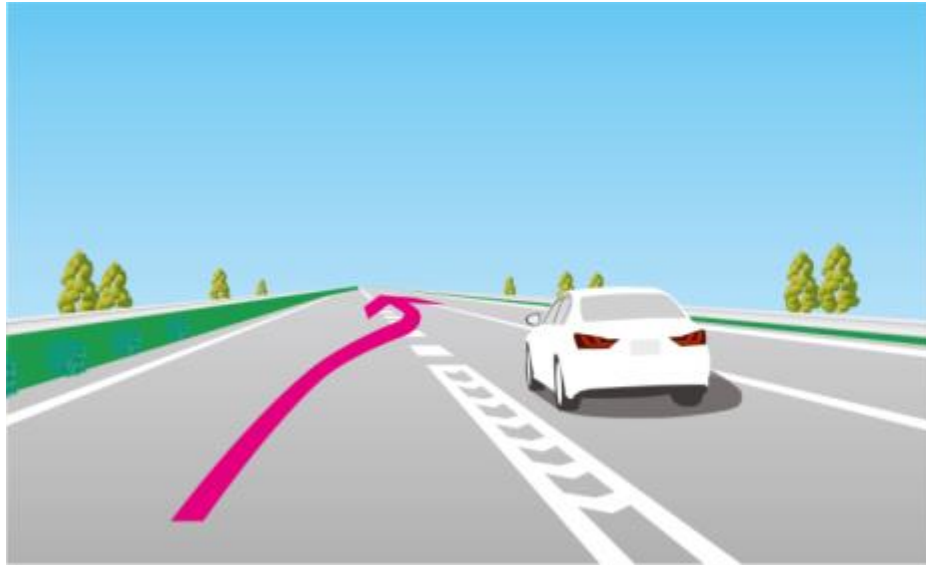


Guardian

Assisted by a system



Highway Teammate (2020) - Japan



Urban Teammate (in the early 2020')



Back to today!

Today's demonstration: Pre-collision System

