AGIL®

DriveSafe+

ST Engineering

AGIL® DriveSafe+

The AGIL DriveSafe+ leverages artificial intelligence (AI), advanced sensing and driver assistance technologies to provide safer and more reliable driving. It minimises risks and potential incidents due to drivers' abnormal behaviours such as fatigue and distractions, and enhances the driver's situational awareness and safety on the road.

It offers seamless monitoring and detection of deviating driving behaviours, and sends warnings to alert drivers and road users. It transforms vehicles, mobile platforms and fleets into intelligent driving partners for various industries:

Automotive

Transportation and Service

Seaports

Airports

Logistics

Key Features

- Provide accurate and reliable detection of potential collisions in the blind spots
- Send audio and visual warnings to alert drivers and road users
- Leverage AI to reduce false alerts and enhance accuracy
- Enable smart data collection for incident reporting and forensic studies

Key Benefits

- Lower accident and maintenance costs
- Improve safety and reduce disruption to operations
- Reduce time spent on accident claims
- Integrate easily with fleet management systems for alert monitoring
- Support day and night operations, as well as low-light operating conditions
- Suitable for different operations/industries with customisable and modular solution

Forward Collision / Pedestrian Detection / Headway Monitoring

The system provides smart headway monitoring by calculating the distance (measured in seconds) from the vehicle ahead while accounting for the driver's vehicle speed. If the distance is determined to be a potential danger, it will send an alert (via audio and visual cues) to warn the driver.

Anti-Fatigue Driving System

- Deploy unique pupil identification based on machine vision technology to detect and analyse the changing characteristics of pupils and eyelids, and provide warning alarm to drivers
- Increase driver awareness of fatigue symptoms
- Detect and send alert on abnormal driving behaviours:
  - Driver fatigue
  - Driver distraction
  - Smoking
  - Making phone call/messaging while driving

Cellular Network

Secure Internet

Track pupil changes and head movements

Lane Departure Warning (LDW)

In the event of unintentional lane departure* due to driver fatigue or distracted driving, the system sends audio and visual alerts to warn the driver.

(*departure from driving lane without using the turning signal)
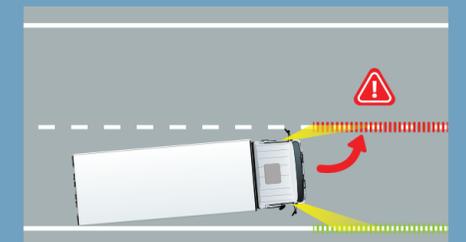
Blind Spot Detection

The system provides warning of blind spots on both sides of the bus/truck when other vehicles, pedestrians, cyclists and motorcyclists are detected to have breached the safety zone by being too close to it. It uses adaptive technology to automatically extend the detection zone when the bus/truck is turning.
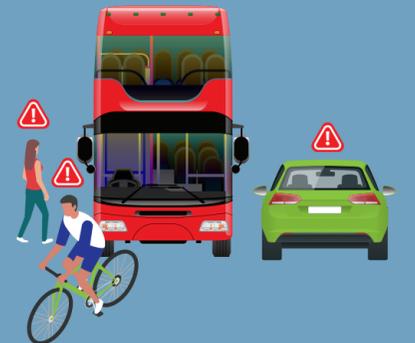
Optimise Safety with Modular Solutions

The AGIL DriveSafe+ adopts a modular design that offers industries the flexibility to select the best mix of solutions that match their operational needs and vehicle driving profiles. Our solutions are compatible with various sensors and cameras, making them an ideal choice for enhancing the safety of drivers and road users while adapting to dynamic driving landscapes.

All Round Advanced Collison Warning System

- Blind spot detection for vehicles, pedestrians, cyclists and motorcyclists
- Video recording system
- External alerts with LED and buzzer

Forward Alert System

- Front collision / pedestrian detection
- Headway monitoring
- Lane departure detection

Driver Management Alert System

- Driver fatigue detection
- Driver distraction detection
- Driver smoking detection
- Driver phone calling detection
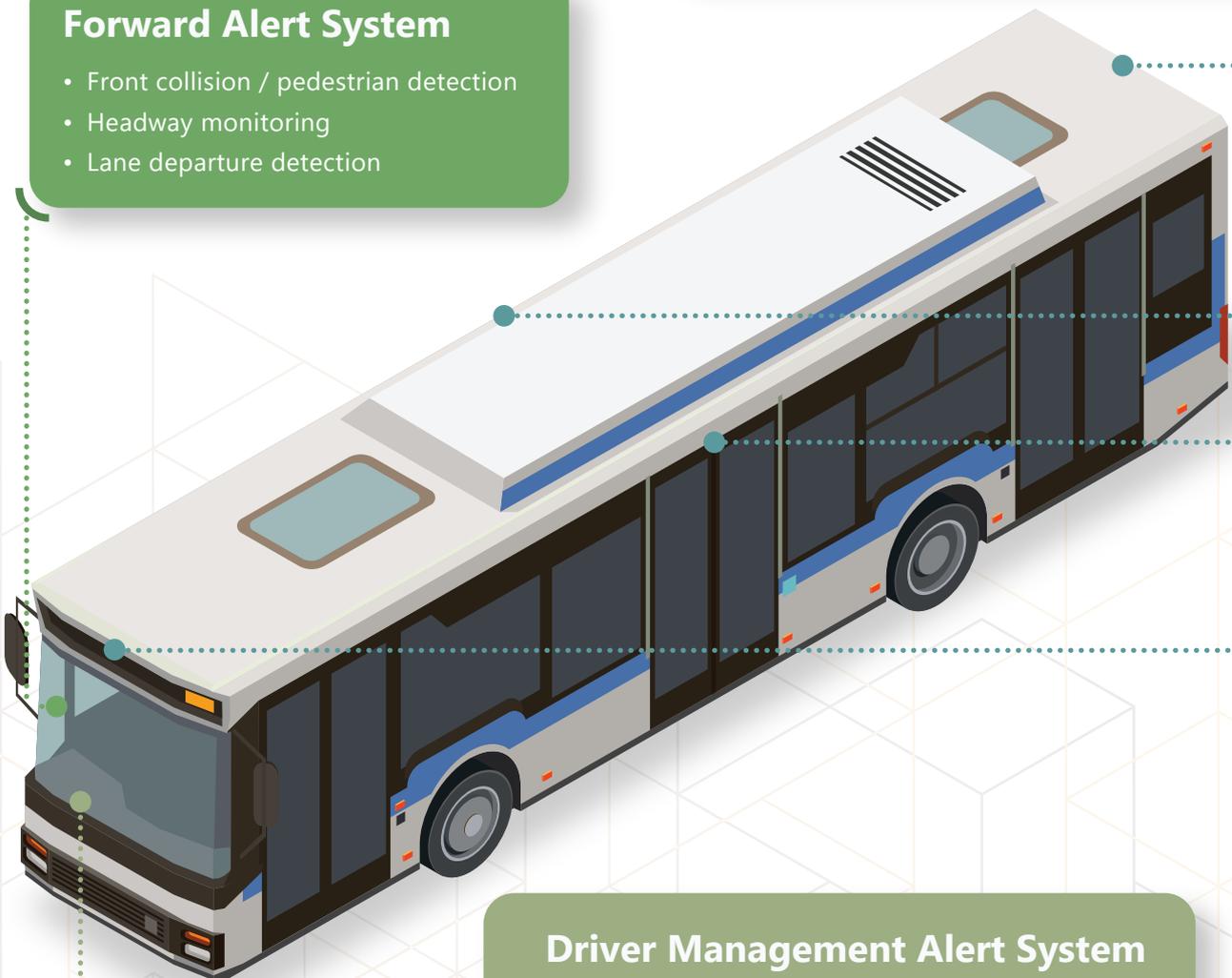
www.stengg.com/smart-city