

BEHAVIORAL RECOGNITION FOR SHARED AND AUTONOMOUS MOBILITY

MONITOR IN-VEHICLE OCCUPANTS WITH ARTIFICIAL INTELLIGENCE VIDEO UNDERSTANDING TECHNOLOGY

Fully autonomous vehicles have no drivers – only passengers.

In sporadic pay-as-you drive services, there is no car owner and therefore no person in charge. In driver-for-rent services or in public transportation vehicles, the passengers are unknown or strangers.

In all these use-cases it is important to ensure that all in-vehicle occupants are secure, safe and the vehicle is protected from occupant's improper use and external threats.

The increasing demand for "drive-for-rent" and "car-for-rent" models, together with analysts predictions regarding future large-scale use of autonomous robo-taxis and robo-bus generates the need for in-vehicle monitoring that will ensure in-vehicle safety. viisights' in-vehicle monitoring system utilizes viisights' ability to understand human behavior via live video streams sourced from an in-vehicle camera(s). In many cases, the video stream will be used as the main signal, yet the system can use additional sensors and data to increase its accuracy.

USE-CASE EXAMPLES

OCCUPANT SAFETY

- Child Sits/ No Child In Front
- Hands/Head Inside The Car
- Seat-Belts
- Valid Number of Passengers
- Abandoned Child
- Abandoned Bag
- Monitor Passengers Distress Signals

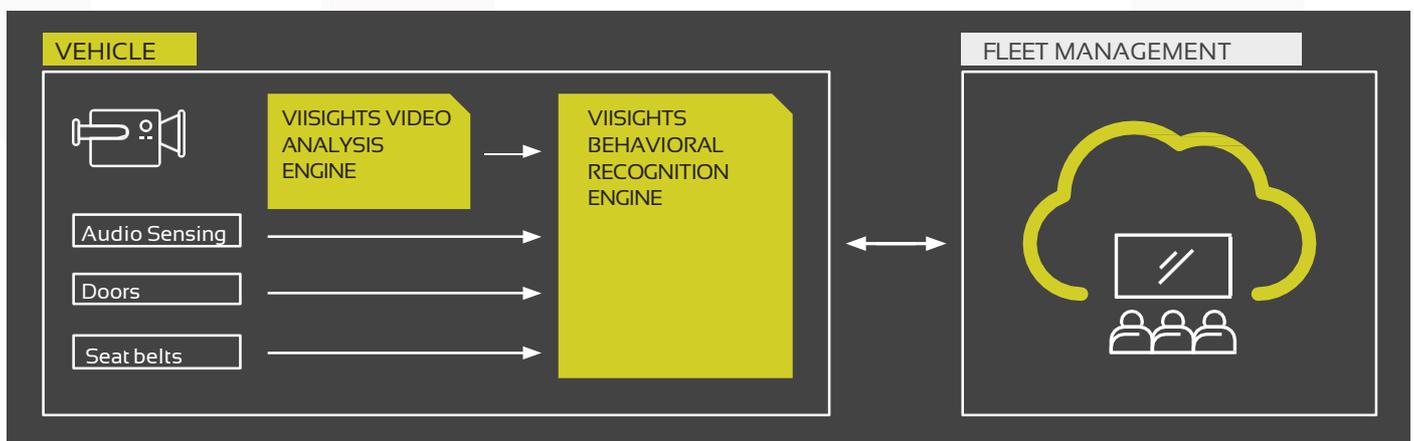
OCCUPANT SECURITY

- Violence Detection
- Threat Detection

VEHICLE PROTECTION

- Vandalism Detection
- Improper Use
- Smoking
- Alcohol
- Drugs
- Littering
- Nudity
- Sex
- Weapon

ARCHITECTURE



ABOUT VIISIGHTS

viisights is a leading innovator of behavioral recognition systems for real-time video intelligence. The company provides AI-powered behavioral recognition systems for safe and smart cities, enterprises, campuses, banks, financial institutions, critical infrastructures and transportation hubs. viisights' mission is to leverage artificial intelligence technologies that facilitate human-like pattern prediction in order to create fully autonomous video intelligence systems.