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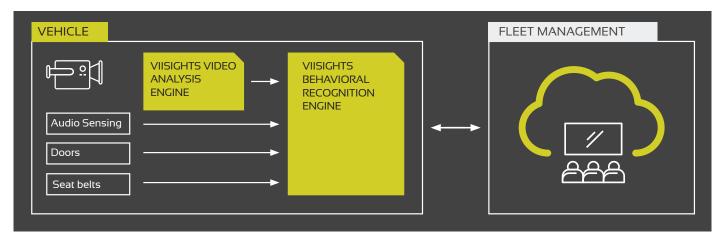In all these use-cases it is important to ensure that all in-vehicle occupants are secure, safe and the vehicle is protected from occupant's improper use and external threats.

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	OCCUPANT SECURITY	VECHILE PROTECTION
■ Child Sits/ No Child In Front	■ Violence Detection	■ Vandalism Detection
■ Hands/Head Inside The Car	■ Threat Detection	■ Improper Use
■ Seat-Belts		
■ Valid Number of Passengers		■ Smoking ■ Nudity
■ Abandoned Child		■ Alcohol ■ Sex
■ Abandoned Bag		■ Drugs ■ Weapon
■ Monitor Passengers Distress Signals		
		■ Littering

ARCHITECTURE

VEHICLE

VIISIGHTS VIDEO ANALYSIS ENGINE

VIISIGHTS BEHAVIORAL RECOGNITION ENGINE

Audio Sensing

Doors

Seat belts

FLEET MANAGEMENT

ABOUT VIISIGHTS

viisights is a leading provider of behavioral understanding systems for real-time video intelligence that leverage unique artificial intelligence technology. The company provides behavioral understanding systems for safe and smart cities, enterprises, campuses, financial institutes, critical infrastructures, transportation hubs and shared mobility initiatives. viisights' mission statement is to develop artificial intelligence technologies that facilitate human-like video understanding, in order to create fully autonomous video intelligence systems powered by pattern prediction technology.