

self-driving
vehicles and
autonomous
transportation
systems

autonomous transport solution



Auve Tech specialises in the development and manufacture of autonomous transportation systems. They offer a full-scope service that entails the autonomous vehicles, their integration to various environments, and fleet management.

Auve has developed the world's most compact and flexible level-4 autonomous shuttle, which can be implemented in the existing infrastructure and is able to operate on public roads. The shuttle is aimed at enabling last-mile transportation, extending public transportation to more travellers, or as an only-mile solution, offering an alternative means of transport in closed areas and mixed traffic environments to make them safe, smart and sustainable.

Shuttles' main features

The shuttle is designed for autonomous driving in pre-mapped areas. It is equipped with LiDARs and cameras that provide a 360-degree view of the surrounding environment to analyse it and react to it accordingly. A fleet of shuttles can also be operated remotely from a control room.

The shuttles' speed is limited to 25 km/h to ensure safety. It can fit up to eight passengers and is able to operate for eight hours with one charge. The shuttles can be deployed in business districts, airports, and campuses, large service areas or suburban residential areas.

Key benefits

- A smarter, safer and more sustainable mode of public transport;
- Its small and lightweight build fits narrow roads;
- The shuttles can make use of existing infrastructure without additional investment;
- A fleet of shuttles can be operated remotely instead of having an operator for each shuttle;
- The only company that can provide the full-scope autonomous shuttle service — from manufacturing the vehicle to meeting any special needs and operating and servicing the shuttles.

Past operations and value created

Auve has proven its concept and its ability to handle different real-life challenges on a university campus, zoo, an open-air museum, business districts and many other closed areas and mixed traffic environments including even the official WRC rally stage. Auve Tech self-driving shuttles have been operating in more than 12 countries in Europe.

For example, one of the pilots featuring the shuttle has connected Ülemiste City — the largest privately-owned business campus in Northern Europe — with Tallinn International Airport and Ülemiste shopping centre. The autonomous bus was officially a part of Tallinn's public transportation system and provided the opportunity to test out a new mobility service in the city for the first time with many passengers.

See the full case study: auve.tech/case-studies/mixed-traffic-operation

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