Shared Autonomous Mobility

Sitraffic mooV – AD-DRT Bus Shuttle System
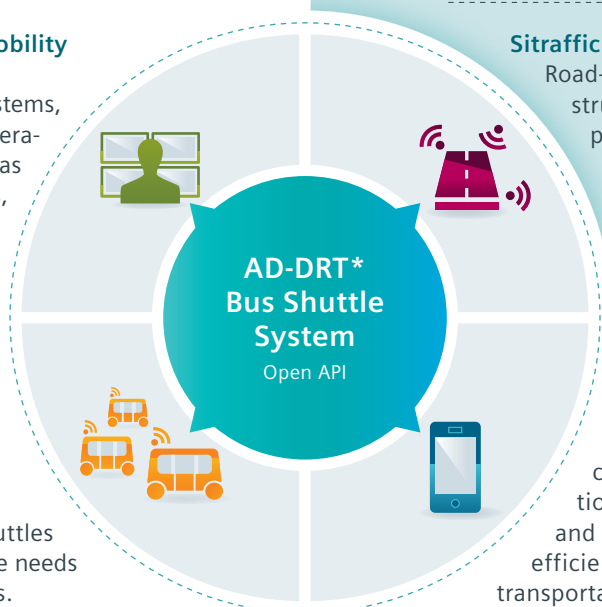
siemens.com/autonomousmobility

SIEMENS
Ingenuity for life

90% less traffic

through shared autonomous and public transport (ITF)

Sitraffic 6sense (Cloud-based Mobility Management System)
Includes different management systems, processes and interfaces for the operation of autonomous shuttles such as a shuttle management, dashboards, incident handling and emergency monitoring.

Sitraffic 4sight (Road-side Services)
Road-side services (intelligent infrastructure) enhance environmental perception by providing real-time road status information to facilitate safe and efficient driving.

AD-DRT*
Bus Shuttle
System
Open API

Intermodal User Apps
App including backend system collects passenger requests and calculates transport recommendations in real time, solving the first and last mile and offer smooth and efficient trips including all modes of transportation.

Fleets of AVs
Consists of autonomous bus shuttles provided by partners tailored to the needs of public transport on public roads.

Get in touch with us

*) AD-DRT = Autonomous Driving Demand Responsive Transport

Key benefits

Transport System Improvements

Sitraffic 4sight intelligent infrastructure supports autonomous shuttle with additional valuable information in order to:

- Improve functional safety of the system by achieving a safety integrity level (up to SIL 3)
- Enable and optimize the overall performance of the vehicle speed, which should lead to 50 km/h without a safety driver
- Integrate vehicles in existing public transport offerings because of higher speed including the optimization of a vehicle's behavior
- Increase the availability of shuttles for higher asset utilization and overall transport efficiency

~90% *road accidents can be avoided by using autonomous vehicles (McKinsey)*

Safety & Homologation

- Redundancy and enhanced environmental perception leads to higher safety and road efficiency
- AD-DRT system is vehicle agnostic, independent from any vehicle supplier
- Digital twin simulation with Simcenter Prescan allows fast and resource-saving verification and validation within the development
- Faster system homologation aspected due to two out of two logic (two sources for driving decision making: vehicle and road-side services)

Expected **50%** *faster* **homologation process** *compared to systems without road-side services (Siemens Mobility)*

Cloud-based Mobility Management System

Sitraffic 6sense software suite for the entire operation of AV shuttles:

- Software as a service: Flexible and scalable implementation
- Open communication protocol enables vehicle manufacturers for easy integration
- Standardized interfaces and connectivity to 3rd party systems

up to **50%** *more throughput due to efficient management systems with connected assets such as autonomous bus shuttles (smartcityexpo)*

Eco-system of partners

HaCon

vmz Verkehr Mobilität Zukunft

tass international
A Siemens Business

aimsun.
A Siemens Company