**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.

**Sitraffic mooV – AD-DRT Bus Shuttle System**

siemens.com/autonomousmobility

**) 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

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)

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

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

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

Eco-system of partners

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