An Optimized Transportation System based on self-driving electric vehicles

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Head of Innovative Mobility Solutions
The urban landscape of the future will look different – above all through the optimization of individual traffic.
The level of complexity and automatization for transportation systems increases significantly.
The need for an Optimized Transportation System is greater than ever before

- Vehicles with combustion engine
- Electric vehicles
- Autonomous vehicles
- Uber/Lyft vehicles
Machine-controlled vehicles on the road must be as safe as those on railways
An Optimized Transport System supported by self-driving vehicles will help to master the future of mobility

Enable level 5 of autonomous driving

Improved safety for complex traffic conditions and in all weather conditions

Enhanced ease of traffic

Enabling individual public transportation on the road
Siemens SDV Suite –
safe and efficient autonomous driving

Intelligent Infrastructure

- Real time traffic related information
- Assisted or predictive driving for safety and comfort
- Providing basic support for autonomous driving

Cloud Services

- Integrated Fleet and Infrastructure Management
- Advanced Traffic and Incident Management
- Intermodal passenger experience

MindSphere

Vehicle zone V2X communication Infrastructure area

From hours to milliseconds
From macro to micro traffic management
From public transport to public individual traffic
Individual public transport – Advanced platooning system and first/last mile

1. Backend collects passenger requests and calculates transport recommendations in real time traffic → pools passenger requests into dynamic routes and ensures availability of right amount of shuttles

2. • Shuttles could be coupled into platoons  
   • Safe and regulated drive through the city  
   • For optimal individualization of mobility, platoons could be decoupled on the last mile  
   • Solving the first and last mile  
   • Connecting also areas with lower demand by mobility on demand solutions  
   • Smooth and efficient trips across all modes of transportation
Test fields for SDV activities at Siemens – together with an ecosystem of relevant partners

Urban/Campus

Munich
OTS 1.0

Singapore
CETRAN, RFI, etc.

Hamburg
HEAT

And many more projects …

Interurban

KoRa9

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