



9-12 JUNE

STOCKHOLM 2019

GLOBAL PUBLIC
TRANSPORT SUMMIT

INTEGRATING AUTOMATED VEHICLES IN THE TRANSPORT ECOSYSTEM

INNOVATION GUIDED TOURS

Wednesday 12 June, 11:30 - 12:30

This tour will drive us through technology companies and mobility service providers challenging the future of automated vehicles. The tour will focus on different solutions and concepts that help optimise the introduction of automat-

ed vehicles in the existing transport ecosystem: from self-driving buses tested worldwide to cutting edge multi-sensor technology, to solutions for automated parking in bus depots.

bestmile
optimizing mobility



IVECO
BUS

navya®
be fluid



深圳巴士集团
SHENZHEN BUS

transdev
the mobility company

FZI

Testing of Automated Driving Systems and Functions

The talk will elaborate on technological building blocks for the test and operation support of automated shuttles targeted for complex urban environments. We will be presenting requirements imposed by uncontrolled environments faced in urban scenarios. Based on these requirements, we outline capabilities of autonomous mobility systems and demonstrate seamless approaches for testing and operating these systems in a safe and reliable manner including virtual and semi-virtual testing. Concrete examples and impressions from real tests and operation at the Test Area for Autonomous Driving Baden-Württemberg are given.



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Bestmile

Bestmile's Fleet Orchestration Platform

Bestmile's Fleet Orchestration Platform empowers mobility providers to deploy, manage and optimize autonomous and human-driven vehicle fleets, supporting fixed-route and on-demand services, regardless of the vehicle brand or type. The platform can also be used to simulate and test service prior to deployment to reduce risks and accelerate time to market.

Bestmile gives mobility service providers the tools and technology that they need to deliver new mobility services - from planning to deployment - with the ability to manage operator and passenger key performance indicators such as fleet utilization, ride times, and wait times. The platform is used by transit operators, taxi companies, transportation network companies, and OEMs to quickly and easily provide, manage and optimize autonomous shuttle, robotaxi, ridehailing, and micro-transit services. Founded in 2014, Bestmile has global offices in San Francisco (USA) and Lausanne (Switzerland).



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IVECO

Intelligent garage

In 2018 IVECO BUS, in collaboration with Paris Public Transport operator RATP and technological research institute specialized in digital systems CEA-LIST, tested autonomous bus parking in Paris with an electric-hybrid Urbanway.

The objective was to investigate the technical feasibility of automation of bus parking in an underground bus depot and evaluate the impact of such innovation on the overall performance of the system.

The benefits are shortening the time needed for bus parking for the driver and making the parking spaces smaller, thus reducing the size of the bus depot.

This innovation provides insights on:

- Modular system of stereoscopic cameras and inertial unit
- Computer-vision technologies
- Visual SLAM image processing technology to localize the bus
- Deep Learning technology to recognize ground markings and parking space numbers
- Visual object learning
- Real time performance and near centimetric precision

IVECO
BUS

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NAVYA

The revolutionary first and last mile travel solution

With neither a steering wheel nor pedals, AUTONOM SHUTTLE is at the cutting edge of multi-sensor technology which allows it to interact in real time with its environment.

In the city or on a private site, the shuttle is an innovative, effective, clean and intelligent mobility solution. Capable of transporting up to 15 passengers, AUTONOM SHUTTLE fleets improve productivity on private sites, ease road congestion in urban centers and guarantee autonomous transport performance as well as a comfortable trip for the first and last mile. Thanks to its gentle navigation, passengers also enjoy a pleasant trip while making the most of their travel time.

navya
be fluid

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Shenzhen Bus Group

Alphaba

“Alphaba” is the intelligent driving public bus jointly built by Shenzhen Bus Group and Shenzhen Haylion Technologies. It has been in the test and demonstration operation on the open road in Futian free trade zone since December 2017. The number of people taking the intelligent driving bus has exceeded 20,000 and the total mileage has reached 26,000 kilometers.



深圳巴士集团
SHENZHEN BUS

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Transdev

The future of public transportation by Transdev

We firmly believe that shared autonomous transport is set to radically change the way we travel and, on a broader scale, the way we live (through flexible, personalized and accessible services, more stops and more regular services, reduced noise and air pollution...). This represents an excellent opportunity for local authority transport networks due to the fact that shared autonomous mobility services will be rolled out before personal autonomous vehicles.

Our ambition? To apply our understanding of the needs of each region to the gradual and successful integration of these technologies into public transport networks.

Our path? Cutting-edge technological knowledge :

- We have chosen an innovative multi-manufacturer positioning (EasyMile, 2GetThere, Navya...), supported by exclusive partnerships with major players including Renault-Nissan-Mitsubishi and Lohr.
- Our expertise in the field of autonomous driving systems has been further developed through a series of collaborations with recognized players (IRT SystemX, VEDECOM, SYSNAV, ESIGELEC...).
- We share two unifying values with our partners: safety and performance; both of which represent our commitment to passengers, to employees and to all of our customers.



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