

VDI

Liberty Ave. Next N35 - 277

2nd International VDI Conference

Future of Buses

Autonomous & Electric Buses

November 27-28, 2019, Amsterdam, The Netherlands

Keynote:
FlixBus

- Electrification & Charging – Field Experiences from Operator & OEM Perspectives
- Regulation & Policy Framework in the new Mobility Age
- New Business Models & holistic Mobility Systems
- Requirements for next Generation Buses
- Autonomous, smart & connected Bus Systems as Part of Public Transport

+ **Interactive World Café Session**

+ **International VDI Workshop: Designing On-Demand Transport Services**

Meet international Experts from:



An event organized by VDI Wissensforum GmbH
www.vdi-international.com/01K0932019



09:00 Registration & Welcome Coffee

10:00 Chair's Welcome and Opening Address

I. Electrification: Field Experiences from Operator & OEM Perspectives

10:15 The Future of E-Buses – Lessons learned from Luxembourg's E-Mobility Test-Bed

- Understanding differences: One optimal solution for all bus operators needs does not exist
- Future charging: It's all about flexibility and robustness
- Depot automation: First step towards the self-driving bus

Dr. Marcin Seredynski, Head of Innovation and Research, Volvo Bus Corporation – E-Bus Competence Center, Luxembourg

10:45 The Future of electric and on-demand Buses

- On the road to full electrification
- Joint-venture services in on demand mobility services
- Alphas - The first commercial self-driving bus tested on public road

Hallie Liao, Head of International Development, Shenzhen Bus Group, China

11:15 On the Route to Emission-Free Bus Operation: Challenges, Lessons Learned & Impulses from the Field

- Challenges when transforming bus fleets from diesel to electric vehicles
- Lessons learned
- Impulses and recommendations from the system operators point of view

Dr.-Ing. Markus Dietmannsberger, Project Manager Electric Buses, Hamburger Hochbahn AG, Germany

11:45 Implementation of electric Public Transport in cold Climate

- Contract models and main learnings after 100 e-buses on the road
- Considerations for further electrification including hydrogen scenarios
- Way forward: Cost level, charging in public spaces and other challenges

Jon Stenslet, Manager Vehicles & Depots, Ruter AS, Norway

12:15  Lunch

II. Implementation of Charging Infrastructure for E-Buses

13:30 Charging Infrastructure for E-Buses: Experiences of a Bus Company

- Implementing a charging infrastructure for electric bus lines
- Technical characteristics of the electric charging infrastructure
- Reference regulations and standardization processes

Josep Ariño, Electrical Engineer, Management Maintenance and Infrastructure Projects, TMB, Spain

14:00 ASSURED: Boosting the Integration of urban commercial electric Vehicles with high power fast-charging Infrastructure

- Drivers of market evolution of clean e-buses
- Contribution of e-bus fleets to improve PT services
- Key technological innovations and enablers
- Current project progress: Contribution to interoperability and standardisation

Hans Bekkers, Business Development Manager Public Transport, VDL Bus & Coach, The Netherlands

14:30 Interactive World Café Session

We invite you to directly engage with other experts. Discuss and identify challenges, needs and solutions while focus is on you – choose your favourite topics and bring in your own experiences!

Interactive Session

Topics:

- The next level of urban mobility, **Traton**
- Hydrogen & fuel cell vs. electro, **Shenzhen Bus Group**
- Validation and testing of automated buses & shuttles, **Transpolis**
- DRT as today's forerunner into the autonomous future, **IOKI**
- The perfect sensor set for autonomous buses? (open)

15:45  Networking & Coffee Break

16:15 Slot reserved for IVECO

Jean-Marc Boucheret, Sustainable Mobility Manager, Iveco Bus, France

III. Regulation & Policy Framework in the new Mobility Age

16:45 The European Commission's Role in the Future of Buses

Robert Missen, Directorate-General for Mobility & Transport, Head of Unit Innovation & Research, European Commission, Belgium

17:15 Bus & Coach Transport in a new Mobility Era

- Decarbonisation: The coach of the future
- Digitalisation: Data sharing, new market entrants, MaaS and regulatory response

• Bus and coach transport in smart cities
Rémi Lebeda, Senior Manager, IRU, Brussels

17:45 End of Conference Day One



Get-together

At the end of the first conference day we kindly invite you to use the relaxed and informal atmosphere for in-depth conversations with other participants and speakers.

IV. New Business Models & holistic Mobility Systems

09:00 Future of Buses: Smarter and greener Mobility for Everyone

- The characteristics of the Flixbus business model
- The mobility ecosystem and innovation
- Future operation strategy

Keynote

Stefan Tontsch, Vice President Operations, FlixBus GmbH, Germany

09:30 Insights from existing On-Demand Ridepooling Services worldwide

- Empirical insights how to launch and scale an on-demand transit system successfully
- Key learnings from over 60 million provided on-demand ridepooling trips
- Software-as-a-service and transportation-as-a-service
- Ridepooling – Valuable addition or strong competition for traditional PT?

Jan Lütke, Head of Strategic Partnerships, ViaVan, Germany

10:00 ☕ Networking & Coffee Break

V. Requirements for next Generation Buses

10:30 What is Public Transportation expecting from City Buses?

- A new architecture to optimize usage of new technologies
- A new way of operating
- A new object integrated in the city

Benjamin Bailly, Head of electric Bus, Alstom, France

11:00 Next Generation active Safety Systems for City Buses – The Foundation for Automated Driving

- Active safety systems in city buses
- Brake assistance in dynamic urban traffic situations
- Protection of bicyclists and pedestrians

René Bruintjes, Development Engineer, Daimler Buses, EvoBus GmbH, Germany

11:30 Together facing the Future: User-centered Product Management

- Why the evolution of mobility raises new challenges
- How MAN focuses users to understand and solve challenges
- How the user-centered approach is integrated in product management and products

Change of Perspective

Dr. Michael Roth, Product Strategy, MAN Truck & Bus SE, Germany

12:00 🍴 Lunch

VI. Towards 100% Autonomous?!

Smart & connected Bus Systems as Part of Public Transport

13:00 Autonomous Driving – Changing Next Generation Mobility

- Global trends and disruption in mobility
- Market segments and opportunities arising through AD
- Approach on next generation mobility

Anja Petrich, Autonomous Mobility Systems, ZF Friedrichshafen AG, Germany

13:30 HEAT - Hamburg Electric Autonomous Transportation

- Project Overview: What and why?
- Requirements for automated driving from an Operator's perspective
- Current development, main challenges and lessons learned

Natalie Rodriguez, Senior Project Manager, co-author: Katrin Schwager, Business Developer, both: Hamburger Hochbahn AG, Germany

14:00 The Virtual Infrastructure: A Necessity for future autonomous Transportation

- Virtual infrastructure as the current missing link in the AV ecosystem
- Virtual infrastructure provides the road code for AVs
- Allowing multiple manufacturers to operate on the same platform
- AV's or vehicles following virtual infrastructure?

Mohammed Hikmet, Executive Chairman, HMI Technologies, New Zealand

14:30 ☕ Networking & Coffee Break

15:00 What can and can't AI do for Public Transport?

- AI in transport – Data driven planning
- AI for real-time transport
- Separating myth from reality about AI

Volker Aderhold, General Manager DACH, co-author: Amos Haggiag, CEO and Co-founder, both: Optibus, Germany / Israel

15:30 Trust Me: Multimodal Uses on AV & EV Buses

- Findings on multimodal interaction topics
- How does voice technology influence trust in AV buses?
- How does stress and uncertainty influence AV and EV use?
- What information needs to be communicated to the users?

Dr. Carie Cunningham, Senior UX Researcher, Nuance, USA

16:00 Conference Chair's closing Remarks

16:15 End of Conference

International VDI Workshop

Designing On-Demand Transport Services

Workshop Chair:

Steffen Schaefer, New Mobility | Smart Cities Advisor, Germany

Date and Venue:

November 29, 2019, Amsterdam, The Netherlands

Time:

09:00-16:00

Content:

Public Transport is on the rise in most regions of the world and buses will play a central role in future urban and rural environments – however, not with oversized vehicles driving on a fixed route and schedule. Instead, On-Demand Transport services are emerging as modern, agile and efficient, affordable services. Transport will be made available when needed and in two flavors: with and without human drivers. In this workshop, participants will learn about options regarding vehicles, software and services available on the market. A rich set of materials and information will be provided that will be useful in practice after the workshop. There will also be an introduction into Design Thinking and User Experience strategy to explain major steps in the design of such services. The main part of the workshop consists of breakout sessions in which relevant topics will be elaborated in a short presentation. Participants will then in groups design the various aspects of an On-Demand Transport service of their choice, followed by mutual presentations and discussion of results.

Introduction:

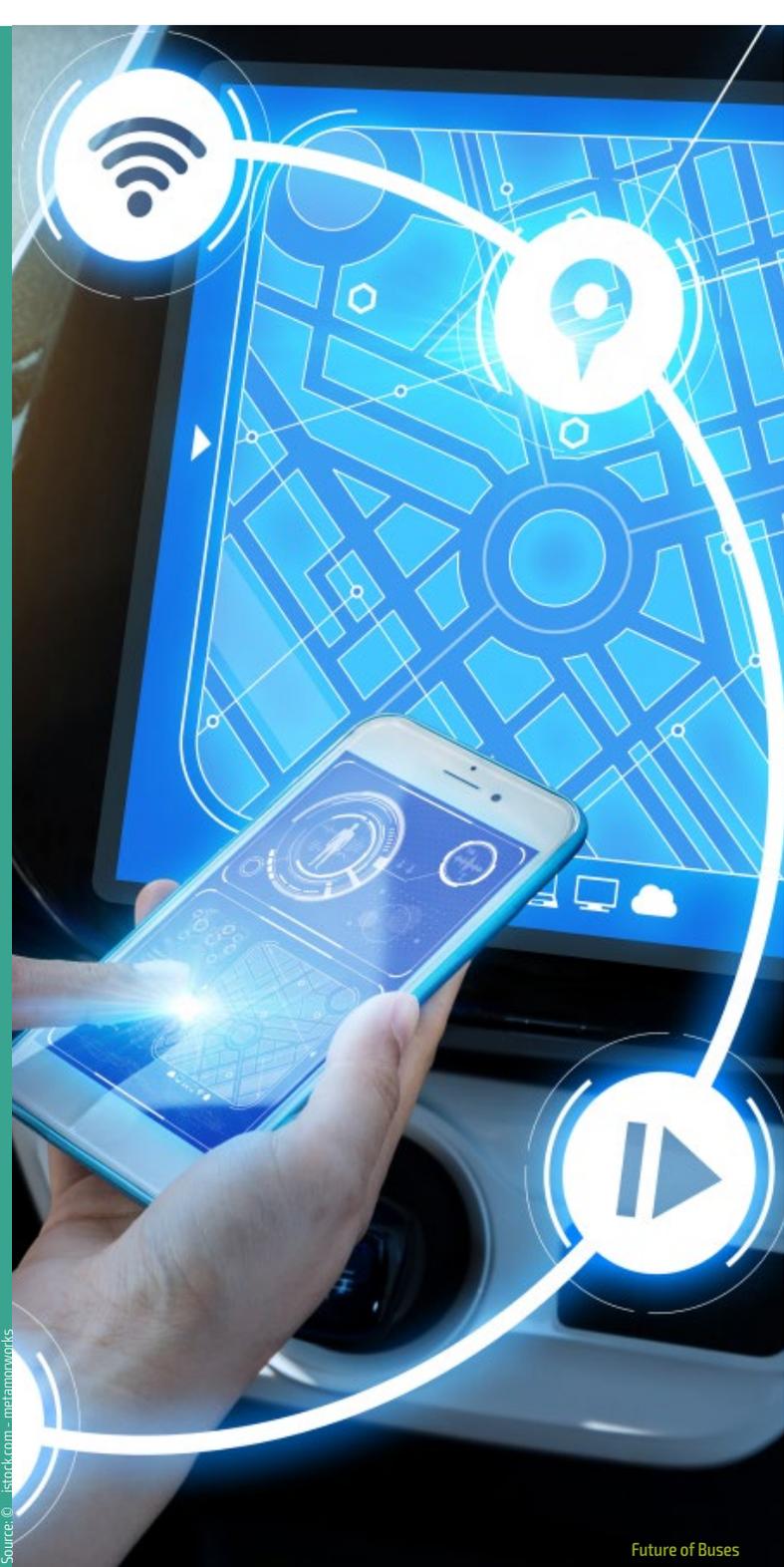
- The case for On-Demand Transport
- On-Demand Transport experiences – Lessons learned from past deployments?

Breakout Sessions – Planned Topics include:

- Business strategy | Business model
- Customer segments, service areas & value-added services
- Vehicles (autonomous | human-driven)
- Software services (traveler & driver apps, pooling | routing, charging | servicing)
- User Experience (UX), including integration of other transport modes

Discussion, Conclusion & Outlook

This workshop is most interesting for mobility providers and transport operators planning to roll out a service, for vehicle manufacturers who want to understand how their vehicles are used and innovation managers who want to understand everything about On Demand Transport and Mobility.



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Exhibition / Sponsoring

If you want to meet with and reach out to the first-rate experts attending this VDI conference and to powerfully present your products and services to the well-informed community of conference participants, please contact:

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Supporting Experts

Edwin Mermans, Senior Advisor International Affairs, Province of Noord-Brabant, The Netherlands

Dr. Gerhard Nowak, Partner, Qvartz, Germany

Dr.-Ing. Rainer Witzig, Head of Product Strategy Bus, MAN Truck & Bus AG, Germany

Become a speaker

Become a speaker at our international VDI Conferences. Make yourself known in the industry and discuss best practice examples with other international experts. We are looking for speakers on: Testing & Validation for Automated and Autonomous Driving, Autonomous & Electrified Buses, Alternative Drives for Cars, 48Volt, Charging Infrastructure, Automotive Sensors, Automotive AI, Cyber Security for Vehicles, Future Mobility and Functional Safety.

Please submit your topic to:

Leonie Bohnstedt

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Registration

Terms and Conditions

Registrations: Registrations for conference attendance must be made in writing. Confirmation of your registration and the associated invoice will be mailed to you. Please do not pay your conference attendance fee until you have received our invoice and its invoice number to be stated for transfer. Dutch VAT directives apply. Please state your VAT-ID with your registration.

Conference venue

Radisson Blu Hotel Amsterdam Airport
Boeing Avenue 2

1119PB Schiphol-Rijk, The Netherlands

Phone: +31 20 655 3131

Email: Reservations.Amsterdam.Airport@Radissonblu.com



You will find more hotels
close to the venue at

www.vdi-wissensforum.de/hrs

Hotel room reservation:

A limited number of rooms has been reserved for the benefit of the conference participants at the Radisson Blu Hotel Amsterdam Airport. Please refer to "VDI Conference". For more hotels: www.vdi-wissensforum.de/hrs

VDI Wissensforum service package:

The conference package includes the conference documents (online), beverages during breaks, lunch and the get-together on November 27, 2019.

Conference attendance conditions and terms: By way of your registration you accept the conference attendance conditions and terms of VDI Wissensforum GmbH as binding. Any cancellation of your registration must be made in writing. We will charge you only an administrative fee of € 50.00 plus Dutch VAT if you cancel your registration earlier than 14 days ahead of the conference date.

Any cancellation that reaches us after this deadline will entail the conference attendance fee as stated in our invoice to be charged in full. The date of the post office stamp of your written cancellation will be the decisive criterion. In that case, we will gladly mail you the conference documents on request. Subject to agreement, you may name a substitute participant. Individual parts and sections of conferences and seminars cannot be booked. You will be informed without delay if an event has to be cancelled for unforeseeable reasons. In that instance, you will be entitled only to a refund of your conference attendance fee if already paid. We reserve the right to exchange speakers and/or change the program sequence in exceptional cases. In any case, the liability of VDI Wissensforum GmbH is restricted exclusively to the conference attendance fee.

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Register online!

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Yes, I will participate as follows:

Participation Fee + VAT

VDI Conference 27.-28.11.2019
(01K0932019) € 1790

and

Workshop 29.11.2019
(01ST929001) € 950

or

Package Price (Please tick the boxes)

(Conference + 1 Workshop) € 2460

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