

VDI

4th International VDI Conference

Future of Buses

Autonomous & Connected Buses

November 08 and 09, 2022, Düsseldorf

- Potential of Autonomous & Smart Buses
- Strategies for Electrified Buses & New Mobility
- New Business Models
- Innovative Technologies to Improve Public Transport
- Mobility-as-a-Service & Intermodal Solutions

+ **International Best Practices**

+ **Interactive World Café Session**

Meet international Experts from:



An event organized by VDI Wissensforum GmbH
www.vdi-international.com/01K0932022





About us



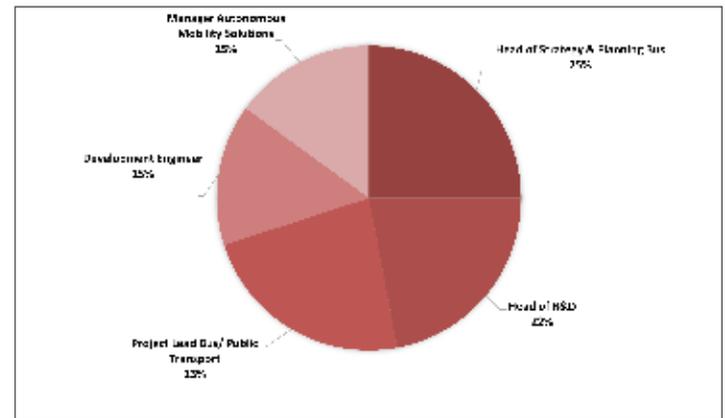
The Association of German Engineers (VDI) is one of the largest technical-scientific associations in Europe. Throughout the years, the VDI has successfully expanded its activities nationally and internationally to foster and impart knowledge about technology-related issues. As a financially independent, politically unaffiliated and non-profit organization the VDI is recognized as the key representative of engineers both within the profession and in public.

Supporting Experts

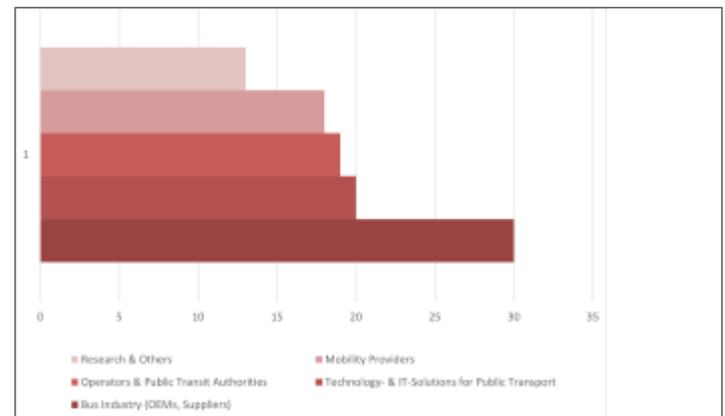
Dr. Gerhard Nowak, Partner, Bain & Company Germany Inc.

Dr.-Ing. Michael Roth, Head of Product Strategy Bus, MAN Truck & Bus AG

Expected Participants according to Functions



Expected Participants according to Industries



Reasons to attend

Meet experts from the bus-, shuttle- and mobility sector

Learn how the industry is adapting to an ever-evolving mobility landscape and automation

Explore hurdles in improving transport systems & managing e-bus fleets

Get insights from international projects: Be inspired by new business models and mobility solutions

Profit from extensive networking opportunities during the breaks and at the evening reception

09:00 Registration & Welcome Coffee

10:00 **Chair's Welcome and Opening Address:** Dr. Gerhard Nowak, Partner, Bain & Company Germany Inc.

I. Autonomous & Smart Bus Systems

10:15 The Future of Buses

- Decarbonization through and with buses
- Autonomous driving technology in buses
- Bus2X – connected buses in the mobility ecosystem

Mustafa Tasaltin, Senior Vice President Strategy, Portfolio and Project Management Bus, MAN Truck & Bus SE, Germany

Opening Keynote

10:45 Taking Urban Transport to the NXT level

- A vision of the future for transport in cities with a shapeshifting take on our company's DNA, the modular system
- A concept vehicle and a functional technology research platform

Linus Åhrtlig, Technical Project Leader Scania NXT, Scania CV AB, Sweden

11:15 The Future of Autonomous Mobility

- Challenges in urban mobility
- ZF's Autonomous transport system
- Realization due to already existing vehicle solution

René Krieger, Head of Technical Sales, Autonomous Mobility Systems, ZF Group, Switzerland

11:45 Autonomous Shuttles Readiness to Deploy Successful Public Transport Services

- Key success factors
- Technology readiness
- Ecosystem maturity

Navya, France

12:15  Lunch

II. World Café Session

13:30 **We invite you to directly engage with other experts in small round table discussions. Identify challenges within your sector as well as problems, needs and solutions. Decide what exactly you would like to discuss and introduce your own experiences and cases.**

Topics:

- Bus Driver – Travel Guide - Steward – Computer: Who will do what in autonomous buses?, MAN Truck & Bus SE
- Sustainability in public transport of the future - What's the next step after the electric drive?, pepper motion GmbH

15:15  Networking & Coffee Break

III. Strategies for Electrified Buses & New Mobility

15:45 Deploying an Open Road Public Transportation Road Pilots to the Nordics

- Deploying in the Nordics, in the winter. What sort of a challenges do the freezing temperatures, ice and snow present to automated shuttle buses? How is this different to polar summer, when the sun doesn't set at all?
- Finland and Norway are known for legislation supporting the automated transportation pilots, but what does it mean in practice to apply for a driving permit in these countries?
- Operating a public pilot is not just working with vehicles and machines. What are the reflections of our end customers, the passengers?

Harri Santamala, CEO and Founding partner, Sensible 4, Finland

16:15 Alternative Drives at FlixBus & HyFleet Project Introduction

- Challenges in decarbonizing a global, decentralized, long-distance fleet
- Current status on available vehicles and technologies
- Introduction to HyFleet H2 long distance bus project

Daniel Zellinger, Team Lead Bus Fleet Strategy, Flix SE, Germany & **Michael Milch**, Director Sales, Marketing & Application Engineering, Freudenberg Fuel Cell e-Power Systems GmbH, Germany

16:45 DB Regio Case Study - Telematics as Innovation Driver for Public Transport

- Implementation of a telematics solution – It can be easy
- Raise driver productivity and passenger safety – When 1 plus 1 equals 3
- Achieve sustainability goals – Reduce CO2 emissions, improve air quality and emit less noise

Geotab, Germany

17:15 End of Conference Day One



17:30 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

09:25 Chair's Opening

Opening
Keynote

IV. New Business Models

09:30 The New BENTELER Autonomous Mover – The Potential of Launching Innovative Hardware in a Software Driven Market

- Analysis and outlook on the autonomous mover market – Tipping point is near
- The Business model(s) of the autonomous mover market, its value drivers and why there is a white spot in the value chain
- The new BENTELER Autonomous mover – The solution to the missing piece

Dipl. Wirt. Ing. Marco Kollmeier, Managing Director, BENTELER EV Systems GmbH, Germany

10:00 Integration of Highly Automated City Buses into Existing Public Transport Processes

- City bus platooning as a first step towards highly automated driving
- Challenges and solutions in the operation of automated vehicles in urban areas
- Deployment scenarios for automated city buses

Nicole Kechler, Member of Scientific Staff, Co-authors: Nathalie Brenner, Member of Scientific Staff & Prof. Dr.-Ing. Eric Sax, Head of Institute, all: Karlsruhe Institute of Technology (KIT) – ITIV, Germany

10:30 Provider of Innovative People Mover Concepts

Slot Reserved

11:00 ☕ Networking & Coffee Break

V. Innovative Technologies

11:30 Connected LiDAR Bus for a Safe Autonomous Operation in Shared Space

- Modern traffic concept „shared space“ - Different users such as pedestrians, bicycles, cars and buses using the space together
- Challenges of shared space for autonomous vehicles
- Development of a LiDAR system that can adaptively capture areas of the environment with higher spatial and temporal resolution
- Project insights into „BARCS“ and „LiDARshared“

Grégory Poillion, Vice President Automotive Sales & Business Development, Blickfeld GmbH, Germany

12:00 Bus Maintenance 4.0

- How the skilled labor shortage impacts maintenance
- How vehicle health can be diagnosed remotely
- How vehicle malfunctions can be predicted
- How processes can be augmented by data insights

Daniel Tyoschitz, CEO & Co-Founder, AWAKE Mobility, Germany

12:30 No Hardware? Fare Collection that Meets Passenger and PTO Needs

- Hardware-free check-in-assisted-check-out ticketing
- Flexibility and scalability at FAIRTIQ from people to technology
- Ticketing with added values: aggregated data for route planning, timetable and fare optimization

Paula Ruoff, Lead Sales and Business Development, FAIRTIQ, Germany & Mathieu Barras, Senior Backend Developer, FAIRTIQ, Switzerland

13:00 🍷 Lunch

VI. Mobility as a Service

14:30 The Future of Mobility Starts Right Now

- The future of mobility will be shared and fully digital
- Simplicity is the key to master the transition from car 2 ride and from owning to sharing
- Deutsche Telekom „Goodride Platform“ provides unified access to all mobility services within a region
- Blending in trip data with the right contextual information to equal the comfort of multi modal rides compared to driving your own car

Carsten Schröder, Managing Director, Leading Future Mobility, Telekom MobilitySolutions, Germany

15:00 Scaled MaaS / TaaS Pilots - How to Bring Autonomous Pilot Projects on the Roads

- Collecting live customer feedback as soon as possible with new trends, esp. reg. autonomous mobility solutions is considered essential for the mobility industry
- Supporting customers in hitting the roads as early as possible
- Asking essential questions at the beginning and taking them into consideration is needed to safeguard quick scaling of projects and products

Damian Weinzierl, Team Lead Autonomous Mobility, P3 automotive GmbH, Germany

15:30 How a Holistic Ecosystem Accelerates the Decarbonisation of Commercial Vehicle Fleets

- Moving from the electrification of commercial vehicles to a holistic approach
- Elements and their impact for a working ecosystem
- Outlook and success potentials

Johannes Voit, Head of pepper ecosystem, pepper motion GmbH, Germany

16:00 Conference Chair's Closing remarks

16:15 End of Conference

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Vanessa Ulbrich
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Phone: +49 211 6214-918
Email: Ulbrich@vdi.de



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Please submit your topic to:
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Product Manager International Business
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Conference venue
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You will find more hotels
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Hotel room reservation: A limited number of rooms has been reserved for the benefit of the conference participants at the Hilton Düsseldorf. Please refer to "VDIConference". 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 08, 2022.

Conference attendance conditions and terms can be found on our website:
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Yes, I will participate as follows:

Participation Fee + VAT

VDI Conference 08.-09.11.2022
(01K0932022) € 1890

I am interested in sponsoring and/or exhibition

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