

8th International VDI Conference

Autonomous Trucks

The Future of Transportation

March 12-13, 2025, Düsseldorf

- Autonomous Trucking
 - Software-Defined Vehicle
 - Sensor Technology for Trucking
 - Data Management
 - Operational Challenges and Scalable Solutions
- + International Best Practices
+ OEM Perspective: TRATON, Daimler Truck & MAN
+ Panel Discussion: Organized by PAVE Europe
+ Fireside Chat: Autonomous Trucking

Meet international Experts from:





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

Gerhard Nowak, Managing Partner, ifp consulting
Stephan Keese, Managing Partner Roland Berger North America, Roland Berger
Sunny Choi, VP Global Business Development, Plus AI

Reasons to attend

- Meet international experts from the trucking industry.
- Learn where the industry is headed and how to stay ahead of the curve.
- Discuss technical challenges, current developments, and the newest solutions.
- Prepare for two days full of insights, contacts, and new ideas.



Upcoming Events

International VDI Conference
AI in Vehicles & Software Engineering
April 1–2, 2025 in Berlin

International VDI Conference
Connected Off-Highway Machines
June 4–5, 2025 in Dusseldorf

09:00 Registration & welcome coffee

10:00 Chair's welcome and opening address

Conference chair: Gerhard Nowak, Managing Partner, ifp consulting

I. Autonomous Trucking

10:10 Autonomous Trucking: Path Towards Commercialization

- State and outlook of the autonomous trucking landscape
- Learnings from first pilot programs: opportunities & challenges to be solved
- Business Models: How to collaborate and generate revenue with autonomous trucking

Sunny Choi, VP Global Business Development, Plus AI, USA

10:30 An OEM Perspective on the Road to Commercializing Autonomous Trucks

- Current Market Dynamics: Opportunities and challenges in the European market for Autonomous trucking
- Accelerating Innovation: How TRATON work with partners to reach driver-out within the long-haulage trucking industry
- Go to market approach: Converting test-routes to commercial transport flows for autonomous deliveries

Astrid Hagqvist, Business Owner Autonomous On-Road Solutions, TRATON, Sweden

11:00 Autonomous Driving @ Daimler Truck

- Autonomous driving has the potential to further reduce the number of accidents - one of our most important goals for many decades
- The technology can also contribute to fundamentally improve our customers' business
- That is why we are fully focused on pushing the development of this technology

Timothy Carter, Head of Strategy Autonomous Driving, Daimler Truck, Germany

11:30 ☕ Networking & Coffee Break

12:00 Fireside Chat - Autonomous Trucking

13:00 🍴 Lunch

II. Sensor Technology

14:30 Next Gen Sensor Setups for Autonomous Driving: Status Quo, Trends and Future Developments

- Overview of Sensor setups, with distinct strategies from industry leaders like Aurora, Kodiak and Torc
- Radar advances as dominant sensor; LIDAR adoption slows
- P3 Future vision of next gen sensor stack

Patrick Eisele, Senior Consultant Autonomous Mobility, co-author: Michael Herdrich, Consultant Autonomous Mobility, both: P3 automotive GmbH, Germany

15:00 Mapless Autonomy as a Complementary Perception and Sensor-Fusion Approach for Highway Trucking

- Leveraging a fully sensor-based environment model as a complementary perception path
- Results of real world testing on multiple vehicle platforms
- Challenges and opportunities in generalizing AI based approaches towards different setups and geographies

Dr. Alexander Wischnewski, Managing Director & CTO, driveblocks, Germany

15:30 Cost-Effective and Compact Single Chip FMCW LiDAR Solution for Autonomous Trucks

- Future trends in sensors and emerging photonic chips
- FMCW LiDAR solution - the next generation of sensing technology
- Single-Chip FMCW LiDAR approach

Davide Canavesi, Head of Strategy and Business Development, Scantinel Photonics GmbH, Germany

16:00 ☕ Networking & coffee break

III. Software-Defined Vehicle

16:30 Managing Reuse and Dependencies of Hardware and Software Components in SDV Architectures

- How to holistically structure the SDV stack for faster, efficient development
- Architecture layers and APIs to consider system-level dependencies between software and hardware
- How to decouple teams for software, hardware and integration while improving cooperation
- How to enable separate value streams for managing reusable software and hardware assets

Dr. Frank Schreiner, Chief Engineer, Business Center Systems Engineering, Continental Engineering Services, Germany

17:00 Central Compute System on Chips (SoC) and Software Stack to Accelerate AI Powered Assisted and Autonomous Driving

- Central compute architectures for trucks and passenger cars
- How AI is helping accelerate the development of next-generation ADAS and higher levels of autonomy
- What are the benefits of central AI compute platforms

Lazaar Louis, Director of Product Management Automotive, Ambarella, USA

17:30 End of conference day one

18:00 Get-together

At the end of the first conference day, we kindly invite you to use the relaxed and informal atmosphere at our conference dinner for indepth conversations with other participants and speakers

09:25 Chair's welcome

Stephan Keese, Managing Partner Roland Berger North America, Roland Berger

09:30 Building User Trust and Understanding in Autonomous Trucks and Urban Goods Delivery - PAVE Europe

- Introduction to PAVE Europe & Panel Discussion
- Industry Insights on Autonomous Logistics
- Improving Perception and Building Trust and Understanding
- Addressing Concerns and Managing Expectations

Panelist: To be announced

Guido Di Pasquale, PAVE Europe, Belgium

10:30 Transforming Port Operations with Automated Vehicles

- How automated commercial vehicle applications in port terminals boost operational efficiency and reduce costs
- How automated transportation supports the shift towards sustainable container supply chains and helps to overcome manpower shortages
- Real-world success stories: exploring industry cases, showcasing use cases with complex autonomous driving manoeuvres and endurance testing in various conditions

Dr. Giorgio Corbellini, Head of Commercial Vehicle Automation, Embotech AG, Switzerland

11:00 ☕ Networking & coffee break

IV. Data Management

11:45 Towards a Safety Argumentation for a Driverless Truck

- Address challenges of how to argue that an autonomous truck without a human fallback driver is acceptably safe
- Step forward towards a safety argumentation for safe autonomous trucks
- Systematical development and decomposition of safety claims
- Enabling hub-to-hub transport on highways (project ATLAS-L4)
- Perspectives from science and industry

Klaus Lamm, Safety Manager Autonomous Vehicles and Automotive SPICE® Assessor, MAN Truck & Bus SE, Germany

& Marvin Loba, Research Associate with the Institute of Control Engineering, Technische Universität Braunschweig, Germany

12:30 Data Driven Development Solutions for Enhanced AD Validation

- Efficient route planning
- Quality assured data collection
- Analytics platform for user friendly evaluation
- Data virtualization

Gernot Hasenbichler, Senior Product Manager ADAS and Autonomous Driving, AVL List GmbH, Austria

13:00 Linking Real-World Data with Simulation through a Cross-Continental Data Management Platform

- Utilizing real-world traffic data for scenario-based safety assessment
- Combining analytic-based approach and data-driven explorative approach for identification of hazardous scenarios
- Generative AI for data insight and scenario generation

Marco Buller, Business Development Manager, dSPACE, Germany

13:30 🍴 Lunch

V. Operational Challenges and Scalable Solutions

15:00 Viable Operation of AD Trucks – Operational Concepts and Scalable Service Solutions as Bottlenecks in the AD Ecosystem?

- Navigating the way from a first AD pilot to a scalable operation concept of an AD fleet
- Scalable services for AD Trucks – example pre-trip inspection
- Regulatory framework and impact on operational readiness
- Challenges for operators, OEMs and legislator
- Automation and integration of inspection systems for an execution of vehicle inspections

Uwe Riedel, Project Lead - Mobility Service Hub, Robert Bosch GmbH, Germany

15:30 Everywhere, All-the-Time Connectivity - Extending the Digital Fleet

- Fleet Digitalization and Existing Connectivity Solutions
- The Vision: Ubiquitous Fleet Connectivity
- Complex Data Applications and Integration
- Cost Containment and Service Differentiation
- Seamless 5G connectivity between terrestrial mobile networks (TN) and satellite communications networks (NTN)

Scott Congdon, Business and Market Development, Intelsat, USA

16:00 Closing Remarks

16:15 End of conference

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:

Vanessa Ulbrich

Project Consultant Exhibitions & Sponsoring

Phone: +49 211 6214-918

Email: Ulbrich@vdi.de



Become a speaker

Become a speaker at our international VDI Automotive Conferences. Make yourself known in the industry and discuss best practice examples with other international experts. We are looking for speakers on: Cyber Security for Vehicles, Software-Defined Vehicle and Autonomous Driving.

Please submit your topic to:

Annick Cathrin Braun

Product Manager International Business

Phone: +49 211 6214-8646

E-Mail: annick.braun@vdi.de

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. German VAT directives apply. Please state your VAT-ID with your registration.

Conference venue

Hilton Düsseldorf

Georg-Glock-Str. 20

40474 Düsseldorf

Phone: +49 211 43770

Email: info@hiltondusseldorf.com



You will find more hotels
close to the venue at
www.vdi-wissensforum.de/hrs

Hotel room reservation: A limited number of rooms at the Hilton Düsseldorf has been reserved for the benefit of the conference participants.

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 March 12, 2025.

Conference attendance conditions and terms can be found on our website:
www.vdi-wissensforum.de/en/terms-and-conditions/

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Register online!

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Yes, I will participate as follows:

Participation Fee + VAT

VDI Conference 12.-13.03.2025
(01K0915025) € 1.990

I am interested in sponsoring and/or exhibition

Participation Fee VDI-Members* Save 50 € for each Conference Day.

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