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# 4th VDV Future Congress

# Autonomous Driving within Public Transport

22 – 23 May 2019 in Berlin

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# Autonomous Driving within Public Transport

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What will remain science fiction and what will be reality faster than one can believe? Autonomous, driverless robotaxis in California, test drives on our motorways and vehicle manufacturers and industrial suppliers' great announcements that they intend to enter the public shuttle market conflict with the first difficult pilot tests. Per aspera ad astra? Now the time has come to think about how highly automated driving can be integrated into the public transport strategy and adapted to the general conditions of public transport.

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Autonomous and automated driving is a focal point of the digital transformation. Artificial intelligence, huge data volumes, high transmission rates and enormous processing power meet the rationality of platform economy and sharing economy within the mobility market as well as the reorganisation of the automotive industry.

- Which role will public transport play in future?
- How can high-performance public transport be digitally transformed?
- When and how can we use public shuttles?
- When will it be technically possible and allowed to perform driverless operation in certain areas?

The 4th VDV Congress on Future Autonomous Driving within Public Transport puts emphasis on the perspectives of public transport, the cities and the customers.

Politicians have announced that they want to adapt the legal conditions – Now it is important to contribute with the opinion of the public transport sector and to take the opportunity without keeping quiet about the risks.

This congress also looks into the experience and latest findings gained from numerous national and international projects with automated and autonomous vehicles in the field of public transport by rail and road.

Discuss the strategies of international mobility providers, the findings of on-going pilot projects and the latest scientific research results with us.

All lectures are simultaneously interpreted into English/German.

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## Your speakers and chairmen/-women

### **Dr. Till Ackermann**

Association of German Transport Companies (VDV)

### **Joschka Bischoff**

Institute for Land and Maritime Transport (ILS), Transport System Planning and Transport Telematics, TU Berlin

### **Caroline Cerfontaine**

International Association of Public Transport (UITP)

### **Kay Euler**

Deutsche Bahn AG

### **Richard Göbelt**

Association of Technical Inspection Agencies (VdTÜV)

### **Christine Greulich**

Federal Ministry of Transport and Digital Infrastructure (BMVI)

### **Dr. Andree Hohm**

Continental Teves AG & Co. oHG

### **Richard Holland**

Transport Systems Catapult, Great Britain

### **Helga Jonuschat**

Dornier Consulting International GmbH

### **Bernd Kämmer**

Lower Saxony Ministry of Economy, Labor, Transport and Digitization

### **Katja Kürbis**

Berliner Verkehrsbetriebe AöR

### **Prof. Dr. Barbara Lenz**

DLR Institute of Transport Research

### **Emanuele Leonetti**

Association of German Transport Companies (VDV)

### **Werner Linnenbrink**

Stadtwerke Osnabrück AG

### **Holger Michelmann**

Interlink GmbH und Büro autoBus

### **Timothy Papandreu**

Emerging Transport Advisors, USA

### **Natalie Rodriguez**

Hamburger Hochbahn AG

### **Martin Röhrleef**

ÜSTRA Hannoversche Verkehrsbetriebe AG

### **Nadine Rosin**

Robert Bosch GmbH

### **Martin Schmitz**

Association of German Transport Companies (VDV)

### **A. Tobias Schönberg**

Roland Berger GmbH, Berlin, Deutschland

### **Dr. Martin Schreiner**

City of Munich

### **Benedikt Sperling-Zikesch**

easy mile

### **Heiko Tempel**

Ministry of Transport Baden-Württemberg

### **Patricia Villoslada**

transdev

### **Marcus von Wilamowitz-Moellendorf**

Hanseatische Fahrzeug Manufaktur

### **Martin Walcher**

Siemens Mobility GmbH

## 4th VDV Future Congress Autonomous Driving within Public Transport Programme – Wednesday, 22 May 2019

**11:00** **Words of welcome by the Association of German Transport Companies (VDV)**  
Martin Schmitz, Managing Director, Engineering Business Unit, Association of German Transport Companies (VDV)

### Session 1 – Autonomous Vehicles as an Integrated Part of the Strategy

Chairman: Martin Schmitz, Managing Director, Engineering Business Unit, Association of German Transport Companies (VDV)

**11:15** **Autonomous driving by rail and road as an integrated part of the digital transformation of Deutsche Bahn AG**  
Kay Euler, Head of the Digital Rail for Germany Division, Deutsche Bahn AG

**11:45** **Keynote – Market overview**  
A. Tobias Schönberg, Senior Partner Transportation, Roland Berger GmbH

**12:15** **The vision of integrated autonomous public transport vehicles**  
Martin Röhrleef, Head of the Mobility Innovation Department, ÜSTRA Hannoversche Verkehrsbetriebe AG

**12:45** **Questions and discussion**

**13:00** **Lunch**

### Panel – General conditions for autonomous vehicles within public transport

Moderator: Dr. Till Ackermann, Head of the Economics and Business Development Department, Association of German Transport Companies (VDV)

**14:00** **Kick-off presentation: The legal framework and possible modifications**  
Emanuele Leonetti, Association of German Transport Companies (VDV)

#### Panel discussion

Planned composition of the panel participants:

**Christine Greulich**, Head of the Automated Driving, Intelligent Transportation Systems Division (DG 24), Federal Ministry of Transport and Digital Infrastructure

**Richard Göbelt**, Head of the Vehicle and Mobility Division, member of the management, Association of Technical Inspection Agencies (VdTÜV)

**Bernd Kämmel**, Unit 43 Road Traffic Law and Traffic Safety, Lower Saxony Ministry of Economy, Labor, Transport and Digitization

**A. Tobias Schönberg**, Senior Partner Transportation, Roland Berger GmbH

**Dr. Martin Schreiner**, Head of the Strategy and Principle Department of the road transport authority, City of Munich

**Heiko Tempel**, Deputy, department 42: electromobility and car innovation, Ministry of Transport Baden-Württemberg

**15:30** **Coffee break**

### Session 2 – Short lectures on the present state of projects concerning autonomous vehicles within public transport

Chairman: Dr. Till Ackermann, Head of the Economics and Business Development Department, Association of German Transport Companies (VDV)

**16:00** **Hub Chain**  
Werner Linnenbrink, Head of Mobility Offer Department, Stadtwerke Osnabrück AG

**16:20** **HEAT**  
Natalie Rodriguez, Project Manager, Business Development and Corporate Strategy, Hamburger Hochbahn AG, Deutschland

**16:40** **Autonomous driving in Berlin – Projects of the Berliner Verkehrsbetriebe (BVG)**  
Katja Kürbis, Project Manager, Digitalisation Department, Berliner Verkehrsbetriebe AöR

**17:00** **NAF bus and further projects**  
Holger Michelmann, Interlink GmbH und Büro autoBus

**17:20** **Questions and discussion**

**17:35** **End of congress day 1**

**18:15** **Individual metro trip to the restaurant Tor Eins**

**18:45** **Networking dinner with shuttle bus demonstration in the restaurant Tor Eins, Möckernstr. 26, 10963 Berlin**

## 4th VDV Future Congress Autonomous Driving within Public Transport Programme – Thursday, 23 May 2019

**9:00** **Words of welcome**  
Dr. Till Ackermann, Head of the Economics and Business Development Department, Association of German Transport Companies (VDV)

### Session 3 – International experience and visions with autonomous vehicles within public transport

Chairwoman: Caroline Cerfontaine, International Association of Public Transport (UITP)

**9:05** **Strategy and Trials on autonomous driving in public transport**  
Patricia Villoslada, Autonomous Transport Systems Vice-President, transdev

**9:35** **Current development on the US market**  
Timothy Papandreou, Founder Emerging Transport Advisors, USA

**10:05** **Autonomous driving in the UK**  
Richard Holland, Principal Engineer, Systems Engineering, Transport Systems Catapult, Großbritannien

**10:35** **Questions and discussion**

**10:45** **Coffee break**

### Session 4 – Automation and autonomous vehicles within public transport

Chairman: Martin Schmitz, Managing Director, Engineering Business Unit, Association of German Transport Companies (VDV)

**11:10** **Autonomous tramcars**  
Martin Walcher, Siemens Mobility GmbH

**11:30** **Public shuttle on the basis of the Motionboard**  
Marcus von Wilamowitz-Moellendorf, Hanseatische Fahrzeug Manufaktur

**11:50** **Continental CUBE and Easymile**  
Dr. Andree Hohm, Director Driverless Mobility, Continental Teves AG & Co. oHG  
Benedikt Sperling-Zikesch, Head of Business Development & Sales, easy mile

**12:10** **Experience autonomous shuttles: Digital services for convincing operations**  
Nadine Rosin, Product Manager – Strategic Marketing, Robert Bosch GmbH

**12:30** **Discussion: Automation of public transport vehicles**

**13:00** **Lunch**

### Session 5 – Research concerning autonomous driving within public transport

Chairman: Dr. Till Ackermann  
Head of the Economics and Business Development Department, Association of German Transport Companies (VDV)

**14:05** **Simulation of the effects of autonomous vehicles on transport on the basis of an agent system for San Francisco Bay Area**  
Joschka Bischoff, Institute for Land and Maritime Transport (ILS), Transport System Planning and Transport Telematics, TU Berlin

**14:30** **User research concerning driverless shuttles**  
Helga Jonuschat, Principal at Dornier Consulting International GmbH

**14:55** **DLR's research finding concerning autonomous driving within public transport**  
Prof. Dr. Barbara Lenz, DLR Institute of Transport Research

**15:20** **End of the Congress**

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## Registration

E-mail [schieffer@vdv.de](mailto:schieffer@vdv.de)

Fax +49 (0) 221 - 5 79 79 81 03

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### 4th VDV Future Congress Autonomous Driving within Public Transport

22 - 23 May 2019 in Hotel Berlin, Berlin

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**Please send your registration form by**

17 April 2019 by post, e-mail or fax to:

**VDV-Akademie GmbH**

Kamekestr. 37-39

50672 Köln

Germany

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First name

Last name

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Position

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Company

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Street and house number

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Postal code

Town

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Phone

Fax

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E-mail

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Invoice address (exact data, if different from above address)

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VAT Id. No. (for registrations from abroad)

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Date and signature

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**Venue and accommodation:**

Hotel Berlin, Berlin

Lützowplatz 17

10785 Berlin

Germany

The price for overnight stay incl. breakfast in a single room amounts to 139.00 €.

**Room reservation:**

- Please reserve a room for me  
from \_\_\_\_\_ to \_\_\_\_\_
- No room reservation for me

**Participation fee:**

945.00 € plus German VAT 19%. Employees from companies with a VDV Academy Card only pay 799.00 € plus German VAT 19%. Training vouchers from the VDV Academy are creditable.

**Registration deadline:**

**17 April 2019**

Registrations will be processed in the order in which they arrive. In case of cancellation after the registration deadline up to one week before the event 50 % of the participation fee and any hotel costs are billed. Refund is not possible in the last week before the event. Cancellations are to be made in writing. Of course, it is possible to send a substitute.

**Billing by VDV Akademie GmbH:**

The registration fee will be invoiced upon receipt of the registration form.

**Contact:**

Ms Heike Schieffer

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**We look forward to welcoming you!**

**Your VDV Academy**

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**Data privacy request**

Your data will be used by the VDV Academy for the organisation of the event. The complete data privacy statement is found under <https://www.vdv-akademie.de/datenschutz/>. You can revoke your consent anytime by mail to [akademie@vdv.de](mailto:akademie@vdv.de).

I accept publication of my contact data in the list of participants of the event  yes  no

I would like to be informed about events and products of the VDV Academy by mail  yes  no

During the event we record images and sounds, which will be used in reports on the event or to promote the service offer of the VDV Academy.