



VIRTUAL EDITION

4th Annual Conference

Autonomous Vehicles and Public Transport in Europe

November 16-17, 2022

Hosted by:

Global **Mass Transit** Report
Information & analysis on the global mass transit industry

Supported by:

AVAMERICA
NEWS, ANALYSIS & PERSPECTIVE ON AUTONOMOUS VEHICLES

BACKGROUND

Deployment of autonomous vehicles (AVs) has received a major boost in Europe. Over the past year, key policies have been announced, pilot projects have been successfully completed, full-sized driverless buses have been introduced and many public transport authorities and operators have unveiled plans to introduce AVs in public transit in urban, suburban and rural areas.

In March and April 2022, the European Commission published two draft regulations for more widespread deployment of fully automated vehicles. This came in right after many European countries amended regulations in 2021 to create an environment of acceptance for AVs. These developments are expected to positively impact the use of AVs in public transport as buses, shuttles and as vehicles for first- and last-mile connectivity.

Several important projects recorded significant developments. A successful autonomous driving pilot was completed in March 2022 in Finland under the SHOW project despite highly challenging winter conditions. The TERMINAL project saw the completion of the practical test phase with the automated cross-border shuttle for commuters between France and Germany. From September 2021, a driverless shuttle began providing an on-demand service without an operator on board inside Kongsberg Technology Park within the framework of the Sohjoa Last Mile project in Norway. The UK's first full-sized driverless buses began trials in Scotland in April 2022 as part of the CAVForth project.

The integration of AVs in public transport and scaling up existing pilots are not without challenges. Public transport agencies face difficulties in their efforts to achieve complete integration and there remain concerns about the interaction of AVs with non-AVs on roads. Safety concerns regarding ownership and accountability in unprecedented situations, general public apprehension and regulatory concerns persist. There are also issues regarding data and cybersecurity.

Despite the challenges, AVs present public transport agencies with the opportunity to become a digital integrator, reap the benefits that data present, implement Mobility-as-a-Service (MaaS), strengthen first- and last-mile connectivity through shared robotaxis and minibuses, develop new business models, reimagine parking spaces and urban design, ensure sustainable mobility and create a balanced and integrated multimodal transport solution.

To discuss the potential, opportunities, and challenges, **Global Mass Transit** is organising its **fourth annual conference on Autonomous Vehicles and Public Transport in Europe** on **November 16-17, 2022**.

MISSION

The mission of the conference is to discuss the progress under EU-funded projects; policy and regulatory framework emerging in Europe; best practices to integrate AVs and public transport; noteworthy case studies, pilot projects and trials; potential use cases of AVs in public transport; strategies for the deployment of AVs to support public transport operations; the infrastructure required to deploy AVs; and funding and procurement strategies. The conference will also showcase new and existing technologies for AVs.

The conference will bring together experts from government agencies, public transport authorities, vehicle technology suppliers, R&D institutes, academic institutions and private companies to address issues in policy, planning, funding, technology, market development, testing and the deployment of AVs.

KEY TOPICS TO BE DISCUSSED

- ❖ Developments under the Sustainable and Smart Mobility Strategy, 2030
- ❖ Key policy, regulatory and strategy initiatives driving the adoption of AVs
- ❖ Progress on EU projects
- ❖ Integrating AVs in public transport
- ❖ Role of transport authorities/operators in the connected autonomous mobility future
- ❖ Potential use cases of AV technology in transit
- ❖ Learnings from pilots, case studies and experience so far
- ❖ Consumer acceptance – affordability, comfort, privacy and safety
- ❖ Planning and designing autonomous mobility services and integrating them into public transit networks
- ❖ Future plans, outlook and opportunities
- ❖ Strategies for the deployment of AVs to support transit operations
- ❖ Physical and digital infrastructure to integrate automation and connectivity
- ❖ 5G as a key enabler of AVs
- ❖ Role of HD mapping in autonomous driving
- ❖ Sharing and utilising AV-generated data
- ❖ Data ownership, protection, privacy and cybersecurity
- ❖ AVs for first- and last-mile connectivity, autonomous shuttles and robo-taxis
- ❖ AVs and public transport in non-urban areas
- ❖ AVs driving the deployment of MaaS
- ❖ AVs and the future of mobility

BENEFITS OF ATTENDING A VIRTUAL EVENT

- ❖ **Live interaction** with senior speakers and key stakeholders (Q&A facility)
- ❖ **Easy connectivity** to geographically dispersed delegates (click of a mouse)
- ❖ **Virtual meetings** and interactions with industry peers and leaders
- ❖ **Cost effective** (lower ticket price as compared to a physical conference)
- ❖ **Flexibility and convenience**
- ❖ **Access to conference recordings** to watch later “on demand”

AGENDA (Tentative)

www.globalmasstransit.net

Tentative Conference Program (More details coming soon)

Day 1: November 16, 2022

Session 1: Opening Keynote Panel Discussion on Role of Connected and Autonomous Vehicles in Public Transport

- ❖ Key emerging trends, new mobility services and models
- ❖ Market outlook and opportunities
- ❖ Consumer acceptance – affordability, comfort, privacy and safety
- ❖ Prioritising equity, accessibility and inclusion around the deployment of AVs

Session 2: Keynote Session on EC Policies and Projects

- ❖ Goals and targets under the Sustainable and Smart Mobility Strategy, 2030
- ❖ EU's AV communication and guidelines
- ❖ EC's planned timeline for AVs: opportunities and challenges
- ❖ EU vehicle approval framework
- ❖ Progress on EU projects: FABULOS, AVENUE, SHOW

Session 3: Country-level Perspective on the Deployment of AVs

- ❖ Key policies and regulations promoting AVs in public transit
- ❖ Funding and financing initiatives
- ❖ Current projects, experience so far and future plans
- ❖ Discussion on micro-mobility, self-driving vehicles, regulatory sandboxes, safety, regulations and broader future of transport themes

Session 4: Role of Technologies in Scaling Autonomous Mobility in Transit

- ❖ Vehicles, shuttles
- ❖ AI, deep learning, ADAS
- ❖ Vehicle-to-vehicle, vehicle-to-infrastructure, vehicle-to-everything technologies
- ❖ HD maps for autonomous driving
- ❖ LIDAR, RADAR, cameras, sensors, INS
- ❖ Cloud computing for AVs

- ❖ Leveraging existing transit assets, retrofitting
- ❖ Physical and digital infrastructure to integrate automation and connectivity

Session 5: Benefits and Challenges of Integrating CAVs in Public Transport – PTA/PTO Perspective

- ❖ Experience so far, challenges, lessons learnt, future plans
- ❖ Planning and designing autonomous mobility services and integrating them into public transit networks
- ❖ Introducing driverless buses, shuttles for public transport
- ❖ Role of AVs in providing first- and last-mile connectivity
- ❖ Role of AVs in mitigating climate change, promoting inclusiveness, increasing safety

Session 6: Case Studies, Pilot Projects and Planned Deployments

- ❖ Use cases for shared AV services including first-/last-mile, fixed route, paratransit and circulator services
- ❖ Best practices and lessons learnt
- ❖ How successful cities deploy AVs
- ❖ Future plans, outlook and opportunities

Close of Day 1

Day 2: November 17, 2022

Session 7: AVs and Mobility-on-Demand

- ❖ AVs for first- and last-mile connectivity, autonomous shuttles and robotaxis
- ❖ Software and hardware requirements to enable AMoD
- ❖ Integration with current transport offerings, role of transport authorities/operators
- ❖ Case studies

AGENDA (Tentative)

Tentative Conference Program (More details coming soon)

Session 8: AVs and Public Transport in Rural Areas

- ❖ Role of AVs in public transport in rural areas
- ❖ Technologies, digital and other infrastructure requirements in rural areas
- ❖ Economics of AVs in rural areas
- ❖ Safety and AVs in the rural environment

Session 9: Data Management and Protection

- ❖ Data generation capabilities of AVs
- ❖ Data ownership, protection, privacy and sharing
- ❖ Data integration platforms
- ❖ Leveraging data analytics for insights
- ❖ EU-wide cybersecurity infrastructure and processes

Session 10: Role of Private AV Operators in Mass Transit – A Panel Discussion

- ❖ Operations and maintenance of AV fleets
- ❖ Integrating with public transport authorities
- ❖ Cloud-based tools for mixed fleet management
- ❖ Fully managed AV service

Session 11: Closing Session on AVs and Future of Mobility – A Panel Discussion

- ❖ Redefined commute and new mobility paradigms
- ❖ Policy and regulatory recommendations
- ❖ Provision of Mobility-as-a-Service (MaaS) with AVs
- ❖ Role of AVs in sustainable mobility planning

End of the Conference

PARTICIPATING ORGANIZATIONS

Some of the key participating organisations at our previous editions of 'Autonomous Vehicles and Public Transit' conferences in Europe and the US include: 2getthere; Aalto University; Access Services; Acumen Building Enterprise, Inc.; AdaSky; AECOM Ventures; Alameda-Contra Costa Transit District; Allianz Partners; Alpha Struxure; Amalgamated Transit Union; Antelope Valley Transit Authority; Arriva UK Bus; Aurora Innovation; Autonomous Insights; Autonotrafic; Autoritat del Transport Metropolità (ATM); Bestmile; BNSF Railway; Bosch GmbH; Braunability; CALSTART; Carris (Lisbon); Center for Transportation and the Environment; Central Contra Costa Transit Authority; CEPS; City of Toronto; Community Transit; Complete Coach Works; Corpus Christi Regional Transportation Authority; Cyngn; D. Transport; De Lijn; Dewitt Greer Centennial Professor of Engineering at the University of Texas at Austin; DG MOVE, European Commission; Drive Sweden, Lindholmen Science Park; Drive.ai; EasyMile; Ecolane USA, INC.; EMT Madrid; ERTICO; Eurocities; European Investment Bank; Evobus GmbH; FAAC Incorporated; Facebook; Famoco; First Group; First Transit, Inc.; Foresight AI; Forum Virium Helsinki; Georgia Institute of Technology Transportation Institute; German Aerospace Center (DLR), Institute of Transport Research; GILLIG LLC; Glendale Transit; Goggo Network; Golden Empire Transit District; Government of Estonia; Hamburger Hochbahn; HNTB; Innovate UK; Innovusion Inc.; Institute for Mobility and Transport; IVU Traffic Technologies AG; Karsan USA LLC; Keolis; Kitsap Transit; KPMG; Lea + Elliott, Inc.; Lilee Systems; Local Motors; London's European Office; Los Angeles County Metropolitan Transportation Authority; Los Angeles Department of Transportation; LTK Engineering Services; May Mobility; MDOT Maryland Transit Administration; Metro Ligerio Oeste S.A.; Metro Transit, Seattle; Metropolitan Transportation Commission San Francisco; Michigan State University; Ministry of Transport and Communications of the Republic of Lithuania; Minnesota Department of Transportation; Mitsubishi Corporation; Mobile Climate Control; Moovit Inc.; Morgan Olson; MT Legal s.r.o.; MTM, Inc.; National Express Transit; NAVYA; NCC Group; New Flyer of America; NiO - Nahverkehr in Offenbach GmbH; Nordic Innovation House; Nossaman LLP; Nova Modus; NOW GmbH; Optibus; Oracle Corp; Oxfordshire County Council; P3 Automotive GmbH; Parsons; Polis; Populus; Qbuzz; RAND Corporation; RATP Dev; RET Rotterdam; Rhein-Main-VerkehrsverbundServicegesellschaftmbH; Roaring Fork Transportation Authority; Royal College of Art (Intelligent Mobility Design Centre); Sam Schwartz Engineering; SamTrans (San Mateo County Transit District); San Diego Metropolitan Transit System; San Francisco Bay Area Rapid Transit District (BART); San Francisco Municipal Transportation Agency; Santa Clara Valley Transportation

Authority; SBB - Swiss Railways; Scania Group; Senate of Canada; Sensible 4; Smartmicro; SNC-Lavalin Inc; Société de transport de Montréal (STM); Solano County Transit (SolTrans); Southwest Research Institute; SPDG; Streamr Network AG; STV Incorporated; The Goodyear Tire & Rubber Company; The National Transportation Systems Center; The New Drive; The Solis Group; TomTom; TPER SPA; Transdev; Transport for Greater Manchester; Transport for London; Transport for West Midlands; Transport Scotland; Transports Metropolitans de Barcelona (TMB); Tri-County Metropolitan Transportation District of Oregon (TriMet); TTA S.r.l; Uitrit4; UNECE; University of Geneva; University of Nevada, Reno (UNR); Upper Great Plains Transportation Institute; USDOT Volpe; Utah Transit Authority; Verkehrsbetriebe St. Gallen; Vias institute; Voyage Auto; Vrije Universiteit Brussel; WABCO GMBH; Wiener Linien; WSP; Yunev; Zenuity; Zenzic; ZF Friedrichshafen AG; ZF Industries, LLC; Zoox; etc

ORGANIZERS

About Global Mass Transit

Global Mass Transit is a leading provider of information and analysis on the global mass transit industry. We publish a monthly market intelligence report (**Global Mass Transit Report**), a weekly newsletter (**Global Mass Transit Weekly**), and operate the www.globalmasstransit.net (website). We publish multi-client research studies and undertake custom research assignments. Global Mass Transit tracks developments in over 100 countries across all regions to ensure reliable and actionable research. Some of our leading research reports are Global Transit Ticketing & Fare Collection Report and Database 2021- 2030; Mobility-as-a-Service Initiatives and Opportunities in 100 Cities Report; Global Upcoming Light Rail Projects Report & Database 2022-2036; Global 1,000 Upcoming Rail Projects Report & Database 2022-2036; Europe Bus Market Outlook Report 2022-2031; Asia Pacific Bus Market Outlook Report 2021-2030; NFC Mobile Ticketing for Transit Report 2021-2030; Global Upcoming Metro Rail Projects Report and Database 2022-2036; State DOT Profiles and Plans for Transit and High Growth Urban Rail Markets Report. Global Mass Transit also organises conferences on topical and crucial issues with focused sessions and discussions featuring speakers with vast experience and expertise in North America, Europe, Asia Pacific, the Middle East and Africa. Some of our past conferences include Mobility-as-a-Service in Europe, Transit Fare Systems for Revenue and Data Management in the US, Autonomous Vehicles and Public Transport in the US, Mobility-on-Demand in Transit in the US, Transit State of Good Repair in the US, Transit Ticketing & Fare Collection APAC, Transit Ticketing & Fare Collection MENA, Wireless Communications in Mass Transit in the US, Clean Buses in Europe, Clean Buses in APAC, Rail Asset Management Europe and Rail Asset Management APAC. These conferences received a strong response from speakers and delegates alike. We have been serving over 300 clients since 2009. Our clients include leading organisations across the world such as ABB, Accenture, Access IS, Agence Métropolitaine de Transport (AMT), Apple Pay, Arriva Nederland, Auckland Transport, Aurecon, Autoritat del Transport Metropolità (ATM), Bangkok Payment Solutions Company Limited, Bombardier Transportation, Bosch GmbH, Conduent Business Solutions (France) SAS, Confederation of Passenger Transport, Confidex, Cubic Transportation Systems, DB Engineering & Consulting GmbH, DB Stadtverkehr GmbH, Datamatics Global Services, Deloitte & Touche Enterprise Risk Services, Discover Financial Services, DXC Technology, FEIG Electronic, FIME, Gemalto, a Thales Company, GFI Genfare, Giesecke & Devrient GmbH, Google Pay, GVB Amsterdam, IDOM Engineering and Consulting, Infineon Technologies, INIT GmbH, IVU Traffic Technologies AG, JCB International, Kapsch PublicTransportCom, Keolis, Korea Smart Card Company, KPMG, LG CNS, Masabi, Mastercard, Metro Ligerio Oeste S.A., Metropolitana Milanese SpA, Ministry of Transport of Czech Republic, MRT Jakarta, National Transport Authority of Ireland, New Zealand Transport Agency, NFC Forum, North Norway European Office, NXP Semiconductors, Pricewaterhouse Coopers, Provincie Gelderland, Provincie Noord-Brabant, PSI Transcom, RATP, Public Transport Neuchâtel, SamsungPay, Serco, Siemens, Singapore Land Transport Authority, SNCF, SNC-Lavalin, Sojitz Corporation, Stadtwerke Münster, Sumitomo Mitsui Card Company, Swissrail, Tallinna Linnatranspordi, Thales, Toshiba, Touch 'n Go, Transport for London (TfL), Transports Metropolitans de Barcelona, Transport Passengers Emilia-Romagna (TPER), VDV-Kernapplikations GmbH & Co. KG, Visa, Vix Technology, Wiener Linien, Wizway Mobile Ticketing, Worldline, etc.

SPONSORSHIP (Limited and available on a first-come-first-served basis)

Pricing: EUR3000 (early bird discount until September 16, 2021), full fee of EUR3500

- A 15-minute speaking slot
- Company logo will be displayed on the event website and the registration page
- Company logo will be displayed in the opening and closing slide/waiting room
- Special mailer to our database announcing your participation with details about your company/products
- Sponsor company mentioned in each promotional mailer
- Mentions in social media posts including a post on the speaker from your company
- Mention in the webinar opening and closing remarks
- 6-9 attendee logins for the employees of the company (regular fee for eight logins is EUR540)
- Contact list of attendees

Please reach out to us so that we can understand your needs better and customise your sponsorship proposal.

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DELEGATE FEES

Delegates	Price before August 31, 2022	Price before October 12, 2022	Standard Price
1 Login	USD 280	USD 340	USD 400
2-3 Logins	USD 450	USD 550	USD 650
4-5 Logins	USD 630	USD 765	USD 900
6-9 Logins	USD 800	USD 970	USD 1,150
10-20 Logins	USD 980	USD 1,190	USD 1,400

* Registration is complimentary for transit agencies and government authorities.

REGISTRATION FORM

☐ I would like to register for the conference

☐ Please send me more information

NAME/DESIGNATION _____ COMPANY _____

MAILING ADDRESS _____

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PAYMENT OPTIONS

1. Credit Card: To make payments by credit card, please visit <https://rb.gy/ijyqje>

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2. Wire Transfer:

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TERMS AND CONDITIONS

Payment Policy

- Full payment must be received prior to the conference in EUR.

Cancellations

- Cancellation requests received in writing 30 days before the date of the conference will be eligible for a full refund, minus a service charge/administration fee of EUR150. We regret that no refunds will be made for any cancellation requests received less than 30 days prior to the conference.
- Substitutions/name changes are welcome at no extra charge. Please send these in writing at least two days prior to the conference.

Disclaimer

- Global Mass Transit shall assume no liability whatsoever in case the conference is postponed or cancelled due to a fortuitous event or unforeseen occurrence that renders its organization impractical, illegal or impossible. For purpose of this clause, a fortuitous event shall include, but not be limited to: war, fire, labor strike, extreme weather or other emergency. Global Mass Transit's responsibility is limited to the return of registration fees only, and not any travel and accommodation costs.
- Please note that it may become necessary for reasons beyond the control of the organizers to make alterations to the content and timing of the program or speakers.

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