



4th Annual Conference on

AUTONOMOUS VEHICLES AND PUBLIC TRANSPORT

March 2-3, 2022

JW Marriott San Francisco Union Square

Hosted by:

AVAMERICA
NEWS, ANALYSIS & PERSPECTIVE ON AUTONOMOUS VEHICLES

Organized by:

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

MISSION

The mission of the conference is to examine the recent developments and progress in the deployment of autonomous vehicles for public transit including first/last-mile, fixed route, paratransit and circulator services. It will also discuss the policy framework, best practices to integrate AVs and public transport, potential use cases of AVs in public transport, strategies for the deployment of AVs to support transit operations, infrastructure required to deploy AVs, and funding strategies. The conference will showcase case studies, pilot projects, and new and existing technologies for AVs.

The conference will bring together experts from the federal, state and local governments, transit agencies, operators, vehicle technology suppliers, R&D institutes, academic institutions and private companies to discuss developments and issues in policy, planning, funding, technology, market development, testing and deployment of AVs.

BACKGROUND

Autonomous vehicle (AV) projects in public transport have again started getting attention and funding, after a lull of almost a year induced by Covid and its financial impact on transit agencies.

New policies and programs have been announced and funding extended by USDOT; pilot projects have been launched; automated transit bus demonstrations have been completed; new partnerships have been formed; funding has been raised by autonomous shuttle manufacturers and technology providers; and so on. USDOT has stated that nearly 70 AV projects for transit, comprising full-size transit buses and low-speed automated vehicles (LSAVs), are either in operation or at the planning stage. For many of these projects, transit agencies have received USDOT funding through various programs.

For the potential of AVs to be fully realized, some of the themes that need to be discussed with a sense of urgency in the next year or two include safety, equity, accessibility and inclusion, privacy and data security, cybersecurity, consistent standards, information sharing, AV electrification, and collaboration and transparency. Governments, agencies and policymakers will also have to undertake stronger policy action to keep pace with the rapidly evolving AV technology.

To discuss the progress so far, best practices and key issues, **AV America** and **Global Mass Transit** are organizing the **4th edition** of the conference, “**Autonomous Vehicles and Public Transport**”, at **March 2-3, 2022** in **JW Marriott San Francisco Union Square**.

KEY TOPICS TO BE DISCUSSED

- ❖ Policies, guidelines and regulations driving the development of AVs
- ❖ Automated Vehicles 4.0 (AV 4.0)
- ❖ Automated Vehicles Comprehensive Plan
- ❖ Transit bus automation, STAR Plan
- ❖ Role of transit agencies/operators in the connected autonomous mobility future
- ❖ Impact of Covid-19 on AVs in public transport
- ❖ Use cases for shared AV services including first/last-mile, fixed route, paratransit and circulator services and impact on transit
- ❖ Planning and designing new autonomous and driverless mobility services and integrating them into public transit networks
- ❖ Prioritizing equity, accessibility and inclusion around the deployment of AVs
- ❖ Consumer acceptance – affordability, comfort, privacy and safety
- ❖ Impact of AV technologies on workforce
- ❖ Learnings from pilots, case studies and experience so far
- ❖ Infrastructure requirements for the deployment of AVs
- ❖ Data ownership, protection and privacy
- ❖ Developing a comprehensive cybersecurity strategy, FTA guidance
- ❖ AVs and Mobility-on-Demand
- ❖ AVs and Mobility-as-a-Service (MaaS)
- ❖ Mobility hubs of the future, integrating AVs and other forms of transit

DAY 1: MARCH 2, 2022

Session 1: Opening Session on Role of Autonomous Vehicles in Public Transport: Emerging Trends and Outlook

- ❖ Key Emerging Trends
- ❖ AVs in public transport and the future of mobility
- ❖ Long-term impact of Covid on AVs in public transport
- ❖ Market outlook and opportunities
- ❖ Etc.

Session 2: USDOT Perspective: Policies and Programs

- ❖ AV 4.0: Ensuring American leadership in automated vehicle technologies
- ❖ Automated Vehicles Comprehensive Plan
- ❖ Transit Bus Automation, STAR Plan
- ❖ FTA funding automated vehicle test activities by transit agencies
- ❖ Developing and promoting consistent standards

Session 3: Keynote Session: Transit Agency/Operator Perspective

- ❖ Role of transit agencies/operators in the connected autonomous mobility future
- ❖ Experience so far, challenges, lessons learned
- ❖ Planning and designing autonomous mobility services and integrating them into public transit networks
- ❖ Prioritizing equity, accessibility and inclusion around the deployment of AVs
- ❖ Consumer acceptance - affordability, comfort, privacy and safety

Session 4: Technology Showcase

- ❖ 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
- ❖ Etc.

Session 5: Impact of AVs on Workforce

- ❖ Labor force transformation
- ❖ Labor force training needs
- ❖ Safety issues

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
- ❖ Aligning AVs in public transit
- ❖ Best practices and lessons learned
- ❖ Future plans

CLOSE OF DAY 1

DAY 2: MARCH 3, 2022

Session 7: Data and Automated Vehicles

- ❖ Automated Vehicle Data Principles and Framework
- ❖ Voluntary data exchange use cases
- ❖ Data protection and privacy
- ❖ Developing a comprehensive cybersecurity strategy, FTA guidance

Session 8: 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

Session 9: AVs and Mobility-as-a-Service

- ❖ MaaS driving the deployment of AVs
- ❖ Platforms and technologies
- ❖ Market outlook, benefits and challenges

Session 10: AVs and Public Transit in Rural Areas

- ❖ Cost-effective AV solutions for meeting rural mobility gaps
- ❖ Experience so far, case studies
- ❖ Benefits, challenges and lessons learned

Session 11: Mobility Hubs of the Future

- ❖ Provisions to support shared and individually owned AVs
- ❖ Charging infrastructure, pick-up and drop-off areas, dedicated lanes
- ❖ Infrastructure requirements to support AVs and future mobility services

Lunch and Networking

CLOSE OF DAY 2

PREVIOUS PARTICIPANTS

Global Mass Transit has been organizing conferences on Autonomous Vehicles and Public Transport in the US and Europe. Some of the key participating organisations at our previous editions of 'Autonomous Vehicles and Public Transit' conferences in Europe and the US include: 2getthere; AC Transit; Acterra; Altro; ATU Local 256; Argonne National Laboratory; Atlanta Regional Commission; BCRTC; Ben Franklin Transit; Bluespace.ai; Broward County Transit; Brotherhood of Railroad Signalmen; Burlington City; Butler County Regional Transit Authority; CALSTART; Canadian Urban Transit Research Innovation; Capital Metro; Cardinal Infrastructure; Central Midlands Regional Transit Authority; COTA; Chicago Transit Authority; CMU; Columbus City; Community Transit; Contra Costa Transportation Authority; Culver City; DART; DDS Wireless; Deepen; Delaware River Port Authority; Delaware Transit; Ecole Centrale Lyon University; Fairfax County; FDOT - District 7; Fehr & Peers; Fisher Phillips; Fort Collins City; General Motors; GoTriangle; Gujarat Metro Rail Corporation; Hamilton City; Hillsborough Transit; Honolulu Authority for Rapid Transportation; Anne Arundel County; Illinois DOT; Infrastrategies; Jacksonville Transportation Authority; King County Metro; Lea + Elliott; Livermore Amador Valley Transit Authority; Los Angeles DOT; Macon-Bibb County Transit; Maryland DOT; METRO; Metrolink; Miami Beach City; Miami Dade TPO; Miami-Dade DTPW; Missouri DOT; MnDOT; MSU; NCDOT Integrated Mobility Division; New Flyer of America; New York MTA; NJ TRANSIT; North Carolina DOT; North Carolina State University/ITRE; North Dakota State University; Oceaneering; ODEP; ODOT Public Transportation Division; Ohio Transit Risk Pool; Oklahoma City; OmniRide; Palm Beach TPA; Parsons; Pinellas County; Potomac and Rappahannock Transportation Commission; Rock Island County Metropolitan Mass Transit District; RTC Southern Nevada; RTC Washoe; Sacramento RTD; SACOG; San Bernardino County; San Diego City; San Francisco MTA; San Mateo County Transit; Santa Clara VTA; SBB - Swiss Railways; SCRRA; SEPTA; SFB Consulting; Shared-Use Mobility Center; Siemens Mobility; SJSU, Mineta Transportation Institute; Southern California Association of Governments; Stantec GenerationAV; StarMetro; Stark Area Regional Transit; STM (Montreal Transit); SwRI; SYSTRA; Tallahassee City; TARC; TBARTA; Texas A&M Transportation Institute; Thermo King Corporation; Transdev; Torrance Transit; Transit Mutual Insurance; Translink; TriMet; TTC; UNC Charlotte; UTA; Valley Metro; Velodyne Lidar; VIA Metropolitan Transit; Virginia DOT; WeGo Public Transit; Wendel; Wichita Transitetc; 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 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 Mobility-as-a-Service Initiatives and Opportunities in 100 Cities; Global Transit Ticketing & Fare Collection Report and Database 2021–2030; NFC Mobile Ticketing for Transit 2021–2030; Global 1,000 Upcoming Rail Projects Report & Database 2020–2035; Global Metro Rail Projects Report and Database 2020–2035; Global Light Rail Projects Report and Database 2020–2035; Investment and CAPEX Plans of Transit Authorities/Agencies 2019–2030; and Europe Urban Bus Market Outlook Report 2017–2030.

Global Mass Transit also organises conferences on topical and crucial issues with focused sessions and discussions featuring speakers with vast experience and expertise in the US, Europe, Asia and the Middle East. Some of our past conferences include Clean Buses in Europe, Mobility-as-a-Service (MaaS) in the US, Autonomous Vehicles & Public Transport in the US, Data-driven Urban Mobility in Europe, Mobility on Demand in Transit, Transit Ticketing & Fare Collection in Europe, Blockchain in Mass Transit in Europe and Wireless Communications in Transit. 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 de 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, PricewaterhouseCoopers, 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.

About AV America

The mission of AV America is to connect people interested in autonomous vehicles with information and analysis on the autonomous vehicles industry. The portal provides links to news, technology features, policies, reports, presentations, regulations, perspectives, interviews, webinars, videos and podcasts on autonomous vehicles.

DELEGATE FEES

Delegates	Standard Price
One Delegate	USD 1,500
Two Delegates	USD 2,400
Three Delegates	USD 3,300
Four Delegates	USD 4,200
Special category delegates *	USD 500

**There is a special low fee for government agencies, regulatory authorities, academia and research institutions*

(Note: The registration includes lunch, breakfast, tea/coffee, and Wi-Fi internet access, on both days of the conference.)

REGISTRATION FORM

☐ I would like to register for the conference

☐ Please send me more information

NAME/DESIGNATION _____ COMPANY _____

MAILING ADDRESS _____

PHONE _____ MOBILE _____

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1. Credit Card: To make payments by credit card, please visit <http://www.cvent.com/d/5nqly8>

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Beneficiary: India Infrastructure Publishing Private Limited*
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TERMS AND CONDITIONS

Payment Policy

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

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 USD150. 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.