



FEDERAL TRANSIT ADMINISTRATION (FTA)

Transit Bus Automation Quarterly Update

Q2 2022 Update



U.S. Department of Transportation
Federal Transit Administration

This FTA document identifies and provides information on transit bus automation pilot projects, demonstrations, and tests and consists of:

- Summaries of news items published in Q2 2022 related to automated transit buses, including both domestic and international projects.
- Summaries of U.S.-based activities related to automated vehicle testing projects with transit agency participation. A sub-section lists projects receiving U.S. Department of Transportation (USDOT) funding.

The information in this document is gathered from publicly available sources (e.g., news articles, press releases, and government websites) and may not represent a comprehensive list of all U.S. transit agency automated vehicle activity. Information on additional projects may be sent to transitautomation@dot.gov.

1. NEWS ITEMS (DOMESTIC AND INTERNATIONAL)

The table below contains Q2 2022 news items related to the use of driving automation systems in transit buses and other vehicle types used to provide public transportation.

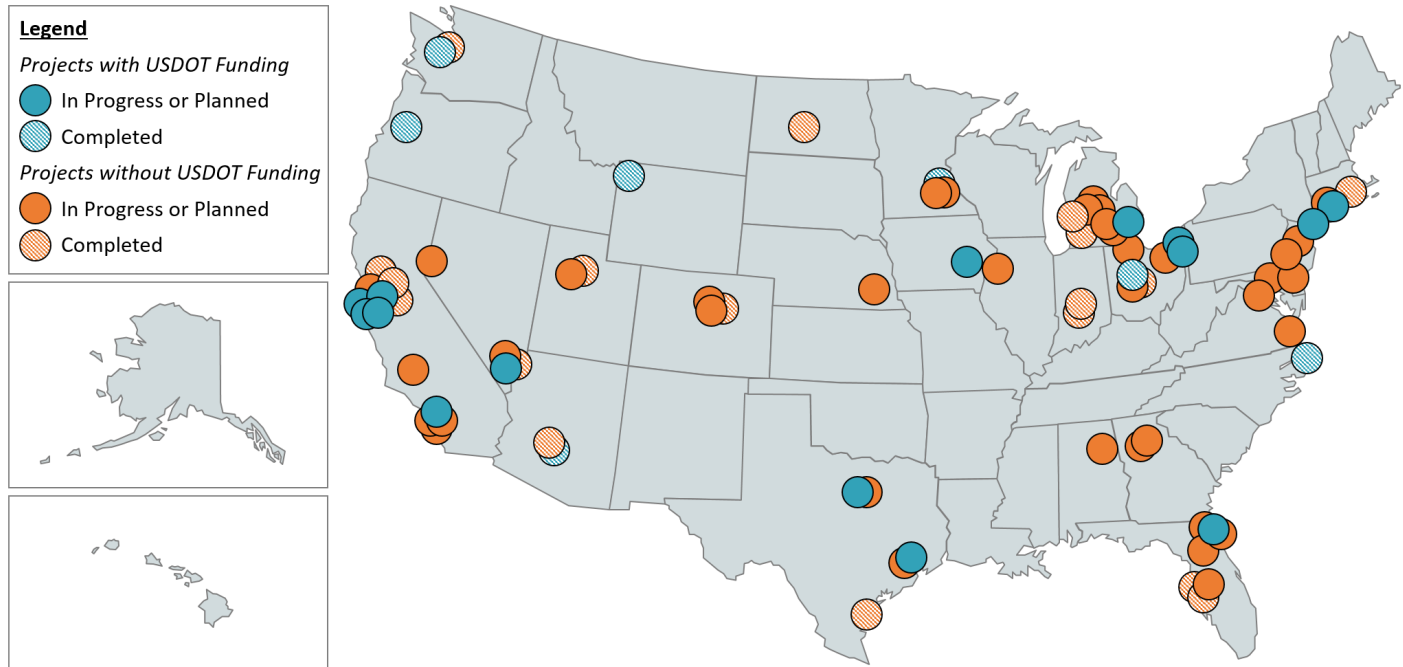
Transit Bus Automation News

Month	News Item
April 2022	<ul style="list-style-type: none"> ➤ Israel announced a \$6.25 million national initiative to conduct public transportation pilots with automated vehicles (link) ➤ Volkswagen began testing its automated ID.Buzz vans in Munich, Germany (link) ➤ May Mobility unveiled its Toyota Sienna Autono-MAAS vehicle with plans to phase it in at U.S. pilot sites during 2022 (link) ➤ Honda, Teito, and Kokusai partnered to launch a Cruise Origin service in Tokyo, Japan beginning in the mid-2020s (link) ➤ WeRide deployed three shuttles and two cars on 17km of open roads in Bo'ao, Hainan, China (link) ➤ Pony.ai received approval to operate a paid on-demand services in Nansha, Guangzhou, China (link) ➤ Stagecoach began on-road testing of an automated Alexander Dennis bus in Scotland as part of the CAVForth project (link) ➤ Mobileye launched automated vehicle testing in Miami, FL and Stuttgart, Germany (link) ➤ ADASTEC began providing rides to passengers in its automated bus at Michigan State University, in East Lansing, MI (link)
May 2022	<ul style="list-style-type: none"> ➤ Sensible 4 completed a 2.5 month pilot as part of the SHOW project in Tampere, Finland (link) ➤ Perrone Robotics and Lightning eMotors partnered to provide electric fleet vehicles (including buses) to customers (link) ➤ Navya and UTAC tested automated shuttle remote supervision capabilities in Linas-Montlhéry, France (link) ➤ Argo announced the beginning of unstaffed operations in Miami, FL and Austin, TX (link) ➤ Waymo announced an expansion for its operations in Phoenix, AZ (link) ➤ Toyota unveiled its ADS-compatible MY22 Sienna platform that it is providing to Aurora Innovation and May Mobility (link)
June 2022	<ul style="list-style-type: none"> ➤ Navya announced that it will provide automated shuttles for the EU-funded ULTIMO project (link) ➤ Cruise received a permit from the California PUC to charge a fare for unstaffed rides in San Francisco, CA (link) ➤ Dubai RTA launched its 3rd Dubai World Challenge for Self-Driving Transport 2023 with a focus on automated buses (link) ➤ Hyundai launched its "RoboRide" on-demand service using ADS-equipped Hyundai Ioniq 5 vehicles in Seoul, South Korea (link) ➤ Navya, Michelin, and beti partnered to pilot automated shuttles in rural scenarios (link) ➤ Sensible 4 announced a pilot that will operate from June 2022 to early 2023 and use two electric Toyota Proace vehicles operating along a 2.2-mile route from the local harbor to the hospital in Bodø, Norway (link) ➤ MAN Truck & Bus and partners presented findings from the recently completed "@CITY" project (link) ➤ Pony.ai received permission to charge a fare for its PonyPilot+ on-demand service in Guangzhou, China (link) ➤ Macnica purchased two Navya shuttles and signed an MOU to buy two of Navya's next generation vehicle platforms (link)

2. AUTOMATED TRANSIT BUS TESTING ACTIVITIES IN THE UNITED STATES

The USDOT has identified many domestic planned, in-operation, and completed automated transit bus testing activities, as well as many transit agencies interested in participating in automated vehicle testing activities. In several cases, these projects have been or are funded through USDOT programs. Some transit agencies have expressed interest in participating in test activities but do not have a formalized project, or there may be limited information available on the project. The locations of automated transit bus testing are shown in the map below, and additional details are contained in the tables on subsequent pages. The projects included in the map and tables focus on testing automation systems for full-size transit buses or smaller transit vehicles (e.g., low-speed automated shuttles and light-duty vehicles).

U.S. Transit Bus Automation Testing Activities



Source: USDOT Volpe Center, July 2022

Projects with USDOT Funding

Many transit agencies have received USDOT funding for automated vehicle test activities. Some of this funding has been provided through Federal Transit Administration (FTA) programs such as:

- [Accelerating Innovative Mobility \(AIM\)](#)
- [Congestion Mitigation and Air Quality \(CMAQ\) Improvement Program](#)
- [Innovative Safety, Resiliency, and All-Hazards Emergency Response and Recovery \(SRER\) Research Demonstrations](#)
- [Integrated Mobility Innovation \(IMI\) Demonstration Program](#)
- [Mobility on Demand \(MOD\) Sandbox Program](#)
- [Safety Research and Demonstration \(SRD\) Program](#)
- [Strategic Transit Automation Research \(STAR\)](#)
- [Vehicle Assist and Automation \(VAA\) Demonstration](#)

Additional projects have been funded by other USDOT modal administrations or by departmental programs, including:

- [Advanced Transportation and Congestion Management Technologies Deployment \(ATCMTD\) Program](#)
- [Automated Driving System \(ADS\) Demonstration Grants](#)
- [Better Utilizing Investments to Leverage Development \(BUILD\) Program](#)¹
- [Federal Highway Administration \(FHWA\) Office of Federal Lands Highway \(FLH\)](#)
- [Federal Lands Transportation Program \(FLTP\)](#)
- [FHWA Technology and Innovation Deployment Program \(TIDP\)](#)
- [Smart City Challenge \(SCC\)](#)

The table below lists many projects with USDOT funding that test automated transit buses and related technologies. Note that, in response to the COVID-19 public health emergency, many automated vehicle operations, especially those with shared rides, have been suspended—as a result, many of the projects listed with an “In Operation” status may be temporarily suspended. Each entry contains information on the transit agency or lead organization, a short description of the project, the funding program supporting the project, and a project status.

The status of “In Planning” indicates projects that are producing planning documents or conducting other activities to prepare for operations. The status of “In Operation” indicates projects that are operating a vehicle (e.g., to map out a route, to verify functionality, on a closed course, in mixed traffic, with or without passengers) or are in the data collection/evaluation phase. Projects with a “Completed” status are no longer in operation, and “Cancelled” projects have been discontinued and are no longer moving forward.

Note: Light teal blue shading and bolded text indicate projects that have been added or updated since the previous version of this document.

Projects with USDOT Funding

State	Transit Agency / Lead	Description	USDOT Program	Status
AZ	Valley Metro	Providing service to users of the RideChoice program via Waymo vehicles. The initial phase of testing provided rides to Valley Metro employees. On-road testing was completed in summer 2020.	MOD	Completed
CA	Access Services	Testing automated vans to provide shuttle service between a light rail station and Veterans Administration (VA) hospital. The team has conducted initial off-site testing.	STAR (Strategic Partner)	In Planning
CA	Contra Costa Transportation Authority (CCTA)	Testing automated vehicles through three real-world demonstration projects.	ADS	In Planning

¹ In 2021, the BUILD discretionary grant program was renamed as the Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant program, and, prior to 2018, it had been known as the Transportation Investment Generating Economic Recovery (TIGER) grant program.

State	Transit Agency / Lead	Description	USDOT Program	Status
CA	San Francisco County Transportation Authority (SFCTA) and San Francisco Municipal Transportation Agency (SFMTA)	Testing automated shuttles to provide first-last mile circulation on Treasure and Yerba Buena Islands.	ATCMTD	In Planning
CA	Santa Clara Valley Transportation Authority (VTA)	Developing accessibility features for an automated Local Motors Olli shuttle and testing it at the VA Palo Alto Health Care System. In early 2022, this work was temporarily paused due to the closure of Local Motors.	CMAQ	In Operation – Temporarily Paused
CA	Santa Clara VTA	Partnering with the Western Reserve Transit Authority (WRTA) and CALSTART to test a purpose-built, common specification prototype automated bus in Mahoning Valley, OH and Santa Clara Valley, CA. VTA is participating as a member of the Connected and Automated Transportation Users Forum (CATUF) effort. In March 2021, an RFP to procure buses was issued, and in August 2021, VTA announced its intent to enter into negotiations with First Transit as the successful proposer.	AIM	In Planning
CT	Connecticut Department of Transportation	Testing automated, electric New Flyer buses on the CTfastrak bus rapid transit corridor to improve safety for riders with disabilities.	IMI	In Planning
FL	Jacksonville Transportation Authority (JTA)	Testing 12-15 automated vehicles and other ITS systems in Jacksonville, FL. In January 2022, JTA signed a deal with a consortium led by Balfour Beatty to design, build, maintain, and operate a service on an at-grade loop along Bay Street from Hogan Street to the Sports and Entertainment District.	BUILD	In Planning
IA	University of Iowa	Testing automated vehicles in a loop from Iowa City through rural areas and small towns, providing an example for how ADS can connect rural populations (focus on connecting rural transportation-challenged populations such as older adults).	ADS	In Operation
MI	City of Detroit	Developing a replicable safety evaluation process and deploying vehicles on test tracks and streets in Detroit to evaluate their safety. The project will also work with older adults and persons with disabilities to better understand their mobility challenges.	ADS	In Planning
MN	Minnesota Valley Transit Authority (MVTA)	Equipping buses in MVTA's express bus fleets with GPS-based technology to improve safety and bus service within narrow shoulder lanes along highly congested corridors (a non-automated system).	SRER	Completed
NC	North Carolina Department of Transportation (NCDOT) and National Park Service (NPS)	Testing an EasyMile EZ10 automated shuttle on a route at the Wright Brothers National Memorial. Transdev managed operation of the shuttle.	FLTP	Completed

State	Transit Agency / Lead	Description	USDOT Program	Status
NY	Port Authority of New York and New Jersey	Testing lateral lane-keeping and bus platooning to improve operations and reduce headways between buses as they traverse Exclusive Bus Lane (XBL) between the Lincoln Tunnel and New Jersey Turnpike. Partners include Robotic Research and Southwest Research Institute (SwRI). The team has conducted initial off-site testing.	STAR (Strategic Partner)	In Planning
NV	Regional Transportation Commission of Southern Nevada (RTC/N)	Testing an automated circulator shuttle in the Las Vegas Medical District.	BUILD	In Planning
OH	Western Reserve Transit Authority (WRTA) - Eastgate Regional Council of Governments is the lead	Testing automated shuttles in a dedicated shuttle lane as part of the SMART2 Network in Youngstown, Ohio.	BUILD	In Planning
OH	WRTA	Partnering with the Santa Clara Valley Transportation Authority (VTA) and CALSTART to test a purpose-built, common specification prototype automated bus in Mahoning Valley, OH and Santa Clara Valley, CA. WRTA is participating as a member of the CATUF effort. In March 2021, an RFP to procure buses was issued, and in August 2021, VTA announced its intent to enter into negotiations with First Transit as the successful proposer.	AIM	In Planning
OH	Central Ohio Transit Authority (COTA) - City of Columbus is the lead	Testing EasyMile EZ10 automated shuttles for the Linden LEAP pilot, which began in February 2020. Due to COVID-19, the shuttles were repurposed to deliver food boxes to residents in Linden, OH. The shuttles ceased operation in April 2021.	SCC	Completed
OR	Lane Transit District (LTD)	Testing lateral lane-keeping and precision docking on LTD's Emerald Express Bus Rapid Transit.	VAA	Completed
TX	City of Arlington	Integrating automated vehicles from May Mobility into its existing on-demand system operated with the Via ride-sharing service. The service includes a wheelchair accessible vehicle and allows University of Texas at Arlington students to ride fare free. The initial one-year pilot ended in March 2022, but the North Central Texas Council of Governments provided funding to extend the Arlington RAPID service for another two years.	IMI	In Operation
TX	Metropolitan Transit Authority of Harris County (METRO)	Testing an automated cutaway bus to provide service to Texas Southern University, the University of Houston, and Houston's Third Ward community. The service will connect to Metro buses and light rail.	AIM	In Planning
WA	Pierce Transit	Testing DCS Technologies' Pedestrian Avoidance Safety System (PASS) automated emergency braking in 30 buses. This project was rescope to focus on driver assistance technology, and the automation component was not activated when the buses were in revenue service.	SRD	Completed

State	Transit Agency / Lead	Description	USDOT Program	Status
WY	National Park Service (NPS)	Testing two Local Motors Olli automated shuttles on routes in the Canyon Village area of Yellowstone Park, with shuttle operations managed by Beep.	TIDP & FLH	Completed

Source: USDOT Volpe Center, July 2022

Projects without USDOT Funding

The transit agencies listed in the table below are involved in demonstration or pilot activities that are not part of a USDOT-funded program. As with the previous table, cells with light teal blue shading and bolded text indicate updates from the previous version of this document. In addition, due to the COVID-19 pandemic, many of the projects listed with an "In Operation" status may be temporarily suspended.

Note: Light teal blue shading and bolded text indicate projects that have been added or updated since the previous version of this document.

Projects without USDOT Funding

State	Transit Agency / Lead	Description	Status
AZ	City of Peoria and Maricopa Association of Governments	Testing Navya Autonom automated shuttles on a fixed route in healthcare district located near Plaza Del Rio Boulevard. The "RoboRide Medical Autonomous Shuttle" service operated Monday through Saturday from 8:00-2:00 pm. The pilot launched in January 2022 and ran through April 2022. Beep managed operation of the shuttle.	Completed
CA	Central Contra Costa Transit Authority (CCCTA) and Contra Costa Transportation Authority (CCTA)	Testing two EasyMile EZ10 shuttles at GoMentum Station and Bishop Ranch business park.	Completed
CA	CCTA	Participating as a member of the CATUF effort.	In Planning
CA	Golden Empire Transit District (GET Bus)	Participating as a member of the CATUF effort.	In Planning
CA	Livermore Amador Valley Transit Authority (LAVTA), the City of Dublin, the Bay Area Air Quality Management District, BART, and the Metropolitan Transportation Commission	Testing an EasyMile EZ10 automated shuttle and providing service from the Dublin/Pleasanton BART Station to nearby locations. Service began on November 16, 2020 and continued through July 30, 2021. Transdev managed operation of the shuttle. A previous short-term demonstration of an EasyMile EZ10 automated shuttle was conducted in 2018.	Completed
CA	Yolo County Transit District (YCTD)	Demonstrating an EasyMile EZ10 automated shuttle.	Completed
CA	Foothill Transit	Participating as a member of the AECOM Automated Bus Consortium (ABC) effort.	In Planning

State	Transit Agency / Lead	Description	Status
CA	Long Beach Transit (LBT)	Participating as a member of the AECOM ABC effort.	In Planning
CA	Los Angeles County Metropolitan Transportation Authority (LA Metro)	Participating as a member of the AECOM ABC effort.	In Planning
CO	Regional Transportation District (RTD) - Denver	Testing an EasyMile EZ10 automated shuttle to connect the 61st Avenue and Peña Boulevard commuter rail station to nearby areas.	Completed
CO	RTD	Participating as a member of the CATUF effort.	In Planning
CO	Colorado Smart Cities Alliance, EasyMile, Stantec, Colorado School of Mines, City of Golden, Colorado Springs, Greenwood Village, Siemens, Panasonic, NREL, Colorado Department of Transportation (CDOT)	Testing EasyMile EZ10 automated shuttles as part of the "Autonomous Vehicles in Colorado" (AvCo) effort in three different communities (Golden, Greenwood Village, and Colorado Springs). In Golden, CO, shuttle service for the Mines Rover project commenced on August 1, 2021 and has concluded. There are no shuttles currently operating as part of the AvCo project. Additional service in other locations will begin at different times yet to be announced.	In Operation – Temporarily Paused
DE	Delaware Department of Transportation (DelDOT)	Testing two EasyMile EZ10 Gen 3 automated shuttles on a 1.2 mile (22 minute) loop on the DelDOT Campus in Dover, DE. The shuttles will operate in other locations around the state once feasibility is determined.	In Operation
FL	Gainesville Regional Transit System (RTS)	Testing an EasyMile EZ10 shuttle in partnership with the City of Gainesville and Transdev. Some initial testing took place in May 2018, but the project was on hold until it launched in February 2020.	In Operation
FL	Hillsborough Area Regional Transit Authority (HART)	Testing two Navya Autonom automated shuttles on a route between the TECO Line Streetcar and the Marion Transit Center along North Marion Street. The one year pilot began in October 2020. Beep managed operation of the shuttle.	Completed
FL	Jacksonville Transportation Authority (JTA)	Testing multiple automated shuttle models (EasyMile EZ10, Navya Autonom, and Local Motors Olli) on a 1/3-mile track as part of a project to replace the existing Skyway monorail. JTA is also testing a minibus to be provided by GreenPower and Perrone Robotics.	In Operation
FL	JTA	Participating as a member of the CATUF effort.	In Planning
FL	Pinellas Suncoast Transit Authority (PSTA)	Participating as a member of the AECOM ABC effort.	In Planning

State	Transit Agency / Lead	Description	Status
FL	Florida DOT, PSTA, and Tampa Bay Area Regional Transit Authority (TBARTA)	Testing two Navya Autonom automated shuttles along Bayshore Drive in St. Petersburg, FL as part of the “Autonomous Vehicle Advantage” (AVA) project. The four month pilot began in November 2020. Following the initial AVA pilot, shuttle service using a Local Motors Olli shuttle began in Dunedin, FL in May 2021. That service was temporarily paused following an incident in June 2021. In December 2021, the AVA Local Motors Olli shuttle began operating in Clearwater, FL for a six week pilot. AVA service in Dunedin, FL used a Navya shuttle, and operated from April 28, 2022 until June 12, 2022. Beep managed operation of the AVA shuttles.	Completed
GA	Metropolitan Atlanta Rapid Transit Authority (MARTA)	Participating as a member of the AECOM ABC effort.	In Planning
GA	City of Peachtree Corners	Testing automated shuttles from Local Motors and Navya as part of the project "Piloting Autonomous Use Locally" (PAUL). Daily service operates from 10:00-4:00 pm and includes seven stops along the “Technology Parkway – Curiosity Lab” route. Beep is managing operation of the shuttles. Other partners include T-Mobile, OVHcloud, Applied Information, and Temple. Use of the Local Motors shuttles was paused due to the closure of Local Motors.	In Operation
IL	Quad Cities MetroLINK	Participating as a member of the AECOM ABC effort.	In Planning
IN	Bloomington Transit	Demonstrating an EasyMile EZ10 automated shuttle.	Completed
IN	Toyota Mobility Foundation (TMF), Energy Systems Network (ESN), Indiana Economic Development Corporation (IEDC), and IndyGo	Testing May Mobility shuttles (five Lexus RX 450h SUVs and one wheelchair-accessible Polaris GEM shuttle) as part of the “Together in Motion Indiana Initiative” through two six-month fixed-route services. The first service took place in downtown Indianapolis, IN and Indiana University–Purdue University Indianapolis (IUPUI), from June 2021 to November 2021. The second service took place in Fishers, IN and operated from December 2021 to June 2022.	Completed
MD	Robotic Research LLC and New Flyer	Developing a 40’ automated transit bus, with initial development and testing in Clarksburg, MD and planned demonstrations in Anniston, AL.	In Operation
MD	Maryland Transportation Authority (MDTA)	Participating as a member of the CATUF effort.	In Planning
MI	Michigan Department of Transportation (MDOT) and PlanetM	Participating as a member of the AECOM ABC effort.	In Planning

State	Transit Agency / Lead	Description	Status
MI	MDOT, PlanetM, and Pratt and Miller Engineering	Constructing and testing automated shuttles at Western Michigan University in Kalamazoo.	Completed
MI	MDOT, PlanetM, and Ann Arbor Area Transportation Authority	Demonstrating the Q'Straint Quantum automated wheelchair securement system in 10 buses in Ann Arbor.	In Operation
MI	MDOT	Participating as a member of the CATUF effort.	In Planning
MI	PlanetM, Michigan State University, and Adastec	Testing a full-size automated bus on a seven-mile route in East Lansing, MI. On-campus testing began in late 2021, and the bus will begin providing service to students, staff, and faculty beginning in April 2022.	In Operation
MI	City of Grand Rapids	Testing May Mobility shuttles (four Lexus RX 450h SUVs and one wheelchair-accessible Polaris GEM shuttle) as part of the "Grand Rapids Autonomous Vehicle Initiative," which provided on-demand rides in a 4.21-square mile service area. On-demand service began on July 26, 2021 and lasted until April 29, 2022. It followed a previous service that provided fixed-route service on a 3.2-mile route with 20 passenger stops. That previous service began in July 2019 and lasted for one year.	Completed
MI	Ann Arbor SPARK, Mcity, and Michigan Economic Development Corporation (MEDC)	Testing May Mobility shuttles (four Lexus RX 450h SUVs and one wheelchair-accessible Polaris GEM shuttle) as part of the "A2GO" service, connecting Kerrytown, the University of Michigan campus, and the State Street corridor in Ann Arbor, MI. Service commenced in October 2021.	In Operation
MN	Minnesota Department of Transportation (MnDOT) and Rochester Public Transit	Participating as a member of the AECOM ABC effort.	In Planning
MN	Minnesota Department of Transportation (MnDOT) and the City of Rochester, Destination Medical Center, Mayo Clinic, First Transit, and EasyMile	Testing two EasyMile EZ10 shuttles as part of "the Med City Mover" service in downtown Rochester, MN. Operations are scheduled to occur from 9:00-3:30 pm on Monday through Friday and 9:00-5:00 pm on Saturdays and Sundays, from September 2021 through August 2022.	In Operation
ND	Capital Area Transit	Demonstrating an EasyMile EZ10 automated shuttle.	Completed
NE	StarTran (City of Lincoln)	Testing an automated shuttle. A previous short-term demonstration of a Navya automated shuttle was conducted in 2018.	In Planning

State	Transit Agency / Lead	Description	Status
NJ	New Jersey Governor's Office, New Jersey Department of Transportation (NJDOT), the City of Trenton, and Princeton University	Testing 100 automated shuttles as part of the "Trenton Mobility & Opportunity: Vehicles Equity System" (Trenton MOVES) project. In December, New Jersey released a Request for Expressions of Interest (RFEI) for the project, and the RFEI closed in February 2022.	In Planning
NV	Regional Transportation Commission of Southern Nevada (RTC of Southern Nevada)	Testing a Navya Autonom automated shuttle in Las Vegas near the Downtown Container Park. The shuttle was operated by Keolis.	Completed
NV	RTC of Southern Nevada	Participating as a member of the CATUF effort.	In Planning
NV	Regional Transportation Commission of Washoe County (RTC Washoe)	Testing a Proterra bus equipped with sensors as part of a larger project with the University of Nevada, Reno to develop an automated bus prototype. This project has been rescoped to focus on driver assistance technology, but may include an automation component in the future.	In Operation
OH	Central Ohio Transit Authority (COTA) - City of Columbus is the lead	Testing May Mobility shuttles on Scioto Mile.	Completed
OH	COTA	Participating as a member of the CATUF effort.	In Planning
OH	Stark Area Regional Transit Authority (SARTA)	Participating as a member of the CATUF effort.	In Planning
OH	Toledo Area Regional Transit Authority (TARTA)	Participating as a member of the CATUF effort.	In Planning
PA	Southeastern Pennsylvania Transportation Authority (SEPTA), Philadelphia Industrial Development Corporation (PIDC), Philadelphia Navy Yard, and Delaware Valley Regional Planning Commission (DVRPC)	Testing an ADA compliant automated electric bus from Perrone Robotics and Lightning eMotors at the Philadelphia Navy Yard. The pilot is expected to launch in summer 2022.	In Planning
RI	Rhode Island Public Transit Authority (RIPTA) - Rhode Island Department of Transportation (RIDOT) is the lead	Testing May Mobility shuttles in downtown Providence.	Completed
TX	Corpus Christi Regional Transit Authority (CCRTA)	Testing an EasyMile EZ10 shuttle (called "SURGE") at Texas A&M University-Corpus Christi began in January 2020. CCRTA partnered with MV Transportation to manage operations.	Completed
TX	Dallas Area Rapid Transit (DART)	Participating as a member of the AECOM ABC effort.	In Planning

State	Transit Agency / Lead	Description	Status
TX	Metropolitan Transit Authority of Harris County (METRO)	Participating as a member of the AECOM ABC effort.	In Planning
UT	Utah Transit Authority (UTA) - Utah Department of Transportation (UDOT) is the lead	Testing an EasyMile EZ10 automated shuttle in several different communities in Utah. The project began in April 2019.	Completed
UT	UTA	Participating as a member of the CATUF effort.	In Planning
VA	Virginia Department of Rail and Public Transportation (DRPT) and Hampton Roads Transit (HRT)	Participating as a member of the AECOM ABC effort.	In Planning
VA	DRPT, Fairfax County, and Dominion Energy	Testing EasyMile EZ10 shuttle (called “Relay”) between the Dunn Loring-Merrifield Metro station and the Mosaic District. Initial testing began in August 2020, and passenger service began in October 2020. The shuttle operates Monday to Thursday from 10:00-2:00 pm. Transdev is managing operation of the shuttle.	In Operation
WA	King County Metro, Kitsap Transit, Community Transit, Pierce Transit, Intercity Ctransit, C-Tran, Ben Franklin Transit, Spokane Transit Authority	Testing of driver assistance systems—Mobileye Shield+ (a non-automated collision avoidance system)—on 38 buses from several transit agencies.	Completed

Source: USDOT Volpe Center, July 2022

Contact

The information in this briefing was compiled by the John A. Volpe National Transportation Systems Center in support of the FTA’s Office of Research, Demonstration and Innovation (TRI). For more information, or to provide information on transit bus automation projects that were not included in this document, send an email to transitautomation@dot.gov.

Cover Image Description

The cover image shows a large transit bus from Pierce Transit, which is parked at the Virginia Tech Transportation Institute (VTTI) Smart Road test track. A member of U.S. Department of Transportation staff took the photo, and staff from Pierce transit and VTTI provided permission for its use.