THE FUTURE OF *TRANSPORTATION* IS HERE

Why SAVs are Important to Public Transit and the Economy

Advances in shared autonomous vehicle (SAV) technology are moving forward at a rapid pace. With an ability to operate much more efficiently, the electric SAV will "unleash" the full potential of major transit investments, now and into the future, with near-future SAVs functioning as a reliable feeder service for frequent and convenient public transportation, such as the BART system and the Livermore Amador Valley Transit Authority's (LAVTA) bus rapid transit networks.

The result will be less congestion and pollution, greater safety on roadways, and a leap in the quality of life for residents.

Specifically, the vision of this project is to test and later place into service, SAVs on public roads near the Dublin/Pleasanton BART station. The objective is to transport residents who live beyond convenient walking distance to and from the BART stations and LAVTA's bus rapid transit system.

These residents would forgo the hassle of driving a short distance and finding parking for their single occupant vehicle at the station if an attractive alternative was available.

Goals

Increase BART and LAVTA Bus Rapid Transit ridership

Create transit jobs

Shift single occupant vehicle trips to transit trips, reducing emissions

Increase farebox recovery for transit operations

Improve trip reliability, safety and the environment

Partners

LAVTA has initiated an SAV project in the City of Dublin that will build upon and reap synergies from the nearby Bishop Ranch autonomous vehicle project. LAVTA's partners in this project include:

- The **Bay Area Air Quality Management District** **baaqmd.gov**
- The **City of Dublin** **ci.dublin.ca.us**
- SAV distributor **EasyMile** **easymile.com**
- The **GoMentum** autonomous vehicle testing facility **gomentumstation.net**
- The **Contra Costa Transportation Authority** **ccta.net**
- **First Transit** Vehicle maintenance and operator **firsttransit.com**
- **County Connection** **countyconnection.com**
- The **Bay Area Rapid Transit** District (BART) **bart.gov**

Livermore Amador Valley
TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA 94551
wheelsbus.com | (925) 455-7500 | info@lavta.org

Vehicle Safety

Safety is our first priority. LAVTA has a safety plan for this demonstration and is taking extra safety precautions.

- Maximum testing speed is 15 miles per hour.
- A human operator from First Transit will be onboard the shuttle at all times during testing.
- The EZ10 has a perfect safety record with than 230,000 riders logged and more than 75,000 miles without incident in mixed pedestrian and bicycle envivonments.

Autonomous vehicle testing is not a thing of the future; it is already here. First Transit has 60 years experience and is one of the largest private-sector providers of mobility solutions in North America, moving 350 million passengers annually.

LAVTA has selected First Transit as the operator and to provide maintenance for the shared autonomous vehicle. Currently First Transit has three active SAV operations in North America (this being the fourth).

EZMile's EZ10 SAV

The EasyMile EZ10 SAV to be used in testing weighs about 3,500 pounds, has space for 12 riders and will operate initially at 15 mph or less. The low operating speed allows for adequate response time to avoid potential hazards in the roadway.

The SAV is an electric, zero emission vehicle. It is a second generation and can operate on fixed or on-demand routes. Although the SAV is driverless and has no steering wheel, gas or brake pedal, the SAV involved in LAVTA testing will always have a First Transit employee onboard who can take control of the vehicle if necessary.

Bay Area Air Quality Management District
Contra Costa transportation authority
EASY MILE
First Transit
GOMENTUM STATION
DUBLIN CALIFORNIA
County Connection
BART