

# CALSTART

## Connected & Automated Transportation Users Forum Next Generation, Purpose-Built, Transit AV Cohort

### Overview

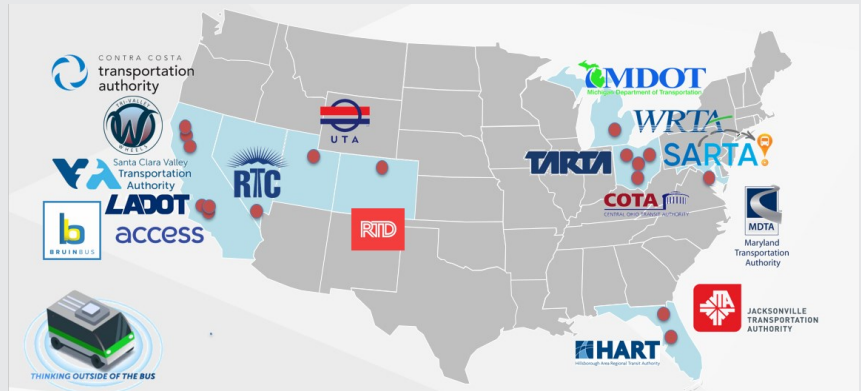
In September 2019, CALSTART, a national nonprofit organization that promotes clean transportation technologies, announced that, as part of its Connected and Automated Transportation Users Forum (CATUF) effort, it would engage with transit agencies to develop specifications for the next generation, purpose-built, automated transit bus.

Under Memorandum of Commitments CALSTART is working with a growing group of more than 16 transit agencies from across the US to address the critical gaps and needs for the future automated transit industry. The cohort is working to identify the unique needs or key performance parameters (KPPs) necessary to satisfy both transit operations and community members whom are served by public transportation and to provide better transit services, which includes the movement of goods to support their community, with vehicle solutions that holistically meets these diverse needs.

The cohort meets monthly to collaborate and take action to address the autonomous vehicle deployment needs of transit providers with particular focus on vehicle requirements, accessibility, and testing and certification, as well as policy and infrastructure. Together we are advancing autonomous transit and mobility for all.



### Transit Leaders Working Together from Across the US



Initial requirements for the 1st generation, purpose-built transit AV, include:

- Automated (SAE Level 4)\*
- Zero emission (e.g., electric or fuel cell)
- Compliant with Federal Motor Vehicle Safety Standards (FMVSS)
- Compliant with Buy America requirements
- Compliant with Americans with Disabilities Act (ADA) requirements
- Designed to operate in all climate conditions
- Capable of accommodating 10 to 14 passengers and two wheelchairs
- Capable of operating at 20-30 mph

The cohort intends for this work to lead to a potential procurement of approximately twenty to thirty-five first-generation, purpose-built, transit-ready AVs. Following an RFI/RFP process these vehicle procurements could be requested as early as February 2021 or as funds become available and are planned to be delivered by mid-to-late 2022.

\* On board safety operator that also services as a concierge

### Expected Outcomes

- Development of 2-3 pilot vehicles on Key Performance Parameters that meet the needs of transits (In process—FTA AIM)
- Increased funding to support the development of transit AVs that meet safety and crash testing requirements for AVs and improved ADA compliance
- Procurement of 20-35 first generation, purpose-built, transit AVs to be deployed at agencies across the US

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