

14 Facts About MSU's Electric Autonomous Bus

- One of the largest electric autonomous transit vehicles to be deployed on U.S. roadways to date
- On campus thanks to a \$100,000 grant through the Michigan Office of Mobility and Electrification, which was awarded to ADASTEC
- The bus was manufactured by Karsan and updated with ADASTEC's advanced autonomous technologies
- Integrated with a breadth of cutting-edge sensor, safety and mapping equipment
- Outfitted with ADASTEC Open Automated Bus Platform, named flowride.ai
- Offers Level 4 autonomy – meaning it can operate without any human interaction
- Its cloud-based platform supports data sharing, mission control and fleet management operations
- Will drive a 2.5-mile nonstop route along Farm Lane – from the Commuter Lot (#89) to the MSU Auditorium
- Data will be collected and analyzed from the bus, including V2I (vehicle to infrastructure) communication technologies as well as experiential learning from persons with disabilities to inform future design considerations
- To ensure safety, a trained operator will be behind the wheel at all times
- Before the bus will accept passengers, it will have finished approximately 630 test trips on campus
- During testing, the bus will be traveling at 15 mph; this will increase to 25 mph once fully deployed in 2022
- Traffic lights along the route will be controlled through intelligent roadside units and communicate with the bus
- Has 22 seats to transport students, faculty and staff

