



SOIUTION

ADASTEC flowride.ai equipped buses transforming public transit

- Clear ROI
- Driverless
- Energy Efficient
- Ready for Deployment
- All Weather
- Factory Fitted
- Accessible
- Connected
- Globally Proven, Locally Available
- Flexible
- Safe



return of investment



Reduce Energy Costs

EVs reduce the cost of energy AV optimizes energy usage ~8%

Reduce Labor Costs

AVs reduce the cost of labor

- Not enough drivers
- Labor costs: ~ 3.5 drivers per bus
- \$250K \$300K per year per bus

ADASTEC

Reduce Technology Costs

Sensor/Software costs are acceptable compared to the cost of an EV Bus

automalec

Operating Conditions

- Full Autonomous in the route
- Day/Night working capability
- Operation in Rain/Hazy/Snow
- Controllable Max Speed (25 ml/h)
- No Safety Driver on route (2024)

Routes

- Predetermined
- Pre-mapped
- Simulated
- Mixed traffic conditions
- Multiple Stops

flowride.ai

Supporting wide range of Operating Design Domains

Automated Driving

- Bus stop handling
- Intersection handling
- Traffic lights
- Crosswalk handling
- Precise localization
- Traffic participants handling

Central Control

- Operation Management
- Mission Management
- Communication
- Data sharing

actory fitted

OEMS

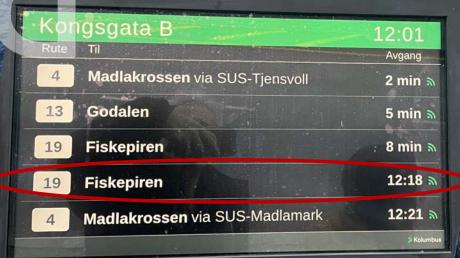


Globally Proven, Locally Available

- USA & Canada
 2 Models
 FMVSS, CMVSS, ADA Compliar
 Buy America Compliant
- **EU** 2 Models
- Japan
- Australia
- Middle East and Asia Coming soon



ntedia



la SUS

X40 1506 1536 1606 Idal via SUS skepirterminalen 1105 1115 1145 1155 1205 1315 1325

ADASTE L'illetter



■/ Ombordtillegg

Høytidsdager

sate

- Fault Tolerant HW
- Fault Tolerant DBW & Braking
- Smooth driving (allowing standing people)
- Minimum Risk Maneuver
- Standards:
 - ISO 26262 Functional Safety
 - ISO/PAS 21448 Safety of the intended functionality
 - ISO 22737 Low-speed automated driving (LSAD) systems for predefined routes
 - SO/SAE 21434 Cybersecurity
 - UL 4600 The standard for Safety for the Evaluation of Autonomous Products.
 - PAS 1881 Operational safety of automated
 - AUTOMOTIVE SPICE





Jepicyments

Deployed

- Michigan State University, MI, USA
- Sleeping Bear Dunes National Lakeshore, MI, USA
- Stavanger, Norway
- Ploiesti, Romania
- Tampere, Finland
- Istanbul, Turkiye
- Ankara, Turkiye

Deployment Stage

- Hannover, Germany
- Michigan State University, MI, USA
- Buffalo, NY, USA
- Rotterdam, the Netherlands
- Arbon City, Switzerland

Pilot Deployments

- Busworld, Brussels, Belgium
- RNTP, Clermont-Ferrand, France
- Global Mobility Call, Madrid, Spain
- Istanbul Ataturk Airport, Turkiye
- Bogazici University, Turkiye
- Hannover, Germany
- Berlin, Germany
- Chateauroux, France



first

First Automated Bus Deployment both in the US and EU

ENHTSA

Forbes

reduce emissions and improve people's travel opportunities especially in urban areas. Self-driving buses can make it financially sustainable to create new bus lines with shorter routes to and from transit hubs.

A first in Europe

The test is a collaboration between transport companies Vy and Kolumbus using AI and sensor technology from Adastec and monitoring technology from Norwegian startup Applied Autonomy.



National Highway Traffic Safety Administraton Automated Vehicle Transparency and Engagement for Safe Testing Initiative **AV TEST Initiative** Mixed Fleet Light Truck VAN SUV Heavy Truck **Delivery Robot** Shuttle Car ADASTEC

Public transit users in Stavanger, Norway, will soon get the opportunity to experience self-driving ... [+] GE

