Last Week In Innovative Mobility

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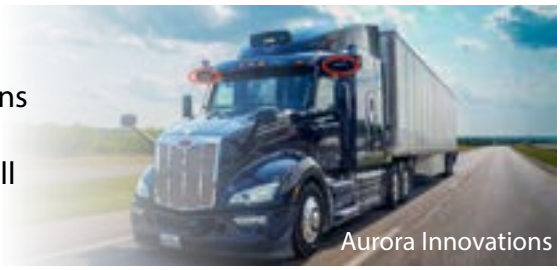
Aerospace Global News

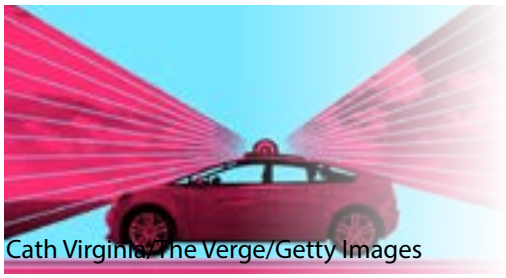
ADVANCED AIR MOBILITY

Joby Aviation has partnered with Nvidia to test IGX Thor, an onboard computing system designed to enable automated flight. IGX Thor will support real-time processing of sensor data, provide estimation in complex environments, adhere to flight paths, adapt to changing conditions, and coordinate with human operators. The collaboration will also advance the development of Joby's advanced aircraft automation platform, Superpilot.

AUTOMATED VEHICLES


Aurora Innovations

Aurora has expanded its automated trucking operations with a new 600-mile route between Fort Worth and El Paso, Texas. The company plans to extend its service to Phoenix, Arizona by the end of 2025. Aurora also announced progress on its next-generation automation hardware, which will be integrated into Volvo VNL Autonomous trucks and feature enhanced lidar sensors and improved performance in adverse weather conditions.


Cath Virginia/The Verge/Getty Images

AUTOMATED VEHICLES

Stellantis has announced a partnership with Nvidia, Foxconn, and Uber to develop automated vehicles (AVs) for use on the Uber platform. Under this collaboration, Stellantis is expected to supply AV-ready vehicles equipped with autonomous driving technology from Nvidia and Foxconn. Development is scheduled to begin in 2028, with an initial deployment of 5,000 AVs planned for the Uber network.

ELECTRIC VEHICLES


Sustainable Bus

Miami-Dade County has launched the Metro Express, the longest electric bus rapid transit (BRT) corridor in the United States. The 20-mile route features dedicated lanes and upgraded stations with amenities such as off-board fare payment, bike storage, Wi-Fi, and shaded seating. The $300 million project was jointly funded by Miami-Dade County, the Florida Department of Transportation, and the Federal Transit Administration.


Caltrain

PUBLIC TRANSIT

Caltrain reported a 47% increase in ridership one fiscal year after introducing its new electric trains. The system now operates 23 seven-car electric trains along a 51-mile route powered by overhead catenary wires. Electrification has enabled Caltrain to increase service frequency and capacity while also returning energy to the grid through its regenerative braking system.

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Innovative Mobility Research (IMR) focuses on the future of mobility and is based at the Transportation Sustainability Research Center at the University of California, Berkeley

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