

TRANSPORTATION TECHNOLOGY TRENDS

Data Sources

produced by

Florida Department of Transportation
Systems Forecasting and Trends Office

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1.0 Moving People

This section contains the data sources for the statistics included on the Moving People page of the pamphlet.

- Portion of urban state highways with heavy congestion during the peak period
FDOT, [The FDOT Source Book](#), Accessed February 2026
- Person miles traveled on state highways
FDOT, [The FDOT Source Book](#), Accessed February 2026
- 10% more trips projected due to AV technologies
Victoria Transport Policy Institute, [Autonomous Vehicle Implementation Predictions: Implications for Transport Planning](#), Accessed February 2026
- Increase in airline passenger boardings
FDOT, [The FDOT Source Book](#), Accessed February 2026
- Waymo launched AV rideshare in Miami in January 2026
Transport Topics, [Waymo Launches Miami Robotaxi Service, Testing at Airport](#), Accessed February 2026
- Tensor to launch AV in US
Spectrum News, [Silicon Valley startup unveils Robocar for private ownership](#), Accessed February 2026
- Holon to construct Jacksonville AV shuttle production facility
PR Newswire, [Holon to establish autonomous shuttle manufacturing facility in Jacksonville, Florida, pioneering the future of mobility in the United States](#), Accessed February 2026
- Number of CV and AV initiatives in Florida
FDOT, [CAV Deployments](#), Accessed February 2026
- Ride-sharing AV costs projected to drop
McKinsey & Company, [Getting on board with shared autonomous mobility](#), Accessed February 2026
- Dynamic tolling is in place along I-4 and I-95
Central Florida Public Media, [New dynamic toll pricing begins on I-4 Express](#), Accessed February 2026
- Now: SunGuide and INRIX process 500K - 1 million alerts annually. Extrapolated from District 3 SunGuide which processed 52,179 alerts in fiscal year 2024.
Florida Department of Transportation, Traffic Engineering & Operations
- I-4 Florida's Regional Advanced Mobility Elements (FRAME) delivers information to CVs and improves signal operations on routes parallel to I-4 when traffic is diverted from I-4. 23% reduction in stops along parallel routes to I-4 after signals were coordinated.
FDOT
- Corridor travel time reduction with adaptive signal control

USDOT, [Implementation of Adaptive signal Control Technology in Florida Resulted in an Overall Travel Time Reduction of 9.36 Percent for Eight Corridors](#), Accessed February 2026

- Up to 25% corridor travel time reduction after signal retiming.
Florida Department of Transportation, Traffic Engineering & Operations

- Brightline annual ridership
[Brightline](#)

- Micromobility trips in Orlando in 2016
Orlando Sentinel, [Orlando Juice Bike Share marks 1st year](#), Accessed February 2026

- Micromobility trips in Orlando in 2025
City of Orlando, [Orlando Shared Mobility Dashboard](#), Accessed February 2026

- Air tax companies are set to launch first operations
FDOT, Advanced Air Mobility Business Plan, Accessed February 2026

- Trips expected using advanced air mobility
FDOT, Advanced Air Mobility Business Plan, Accessed February 2026

2.0 Moving Freight

This section contains the data sources for the statistics included on the Moving Freight page of the pamphlet.

- Truck vehicle miles traveled on state highways
FDOT, [The FDOT Source Book](#), Accessed February 2026
- Portion of manufacturing shipments from e-commerce
Statista, [E-commerce as percentage of total manufacturing shipments in the United States from 2000 to 2021](#), Accessed February 2026
- Increase in manufacturing construction spending, \$5,925 in July 2018 compared to \$20,079 in June 2024.
Federal Reserve Bank of St Louis, [Total private construction spending: manufacturing in the United States](#), Accessed February 2026
- Cost of delay for combination trucks
FDOT, [The FDOT Source Book](#), Accessed February 2026
- Increase in freight costs, 308.9 in July 2018 compared to 417.206 in July 2024.
Federal Reserve Bank of St. Louis, [Producer Price Index by Industry: General Freight Trucking, Long-Distance Less Than Truckload: General Freight Trucking, Long-Distance Less Than Truckload](#), Accessed February 2026
- Per mile freight trucking cost in the southeast in 2024
ATRI, [An Analysis of the Operational Costs of Trucking: 2025 Update](#), Accessed February 2026
- Higher truck and trailer payment costs drove the increase in operational costs
ATRI, [An Analysis of the Operational Costs of Trucking: 2025 Update](#), Accessed February 2026
- Walmart stores with drone delivery by 2026
Wing, [Wing and Walmart launch Metro Atlanta's first drone delivery service in time for the holidays](#), Accessed February 2026
- Amazon launched drone delivery service in the Tampa Bay Area in early 2026.
FOX 13 Tampa Bay, [Amazon launches Prime Air drone delivery in Ruskin, first site in Florida](#), Accessed April 2026
- A digital twin is a virtual replica of real-world systems using real-time data. Digital twins can support freight logistics: (1) Tracking the status, location, and condition of containers and trucks. (2) Evaluating outcomes from 'what if' scenarios before resources are invested. Florida Department of Transportation, Traffic Engineering & Operations
- 10 anticipated digital twin models statewide by 2035.
FDOT
- Parking spaces in the FDOT Truck Parking Availability System
Florida 511, [Truck Parking Availability](#), Accessed February 2026
- Estimated annual savings with autonomous technology

Heavy Duty Trucking, [Report: Autonomous vehicles could save trucking \\$300 Billion in labor costs](#), Accessed February 2026

- Autonomous freight transportation started between Dallas and Houston in May 2025.
Aurora, [Aurora begins commercial driverless trucking in Texas, ushering in a new era of freight](#), Accessed February 2026
- FDOT initiated an Autonomous Freight Pilot Program in Miami-Dade County between Miami International Airport and the warehouse district in Doral.
Miami-Dade TPO, [Connected-Autonomous Vehicle \(CAV\) Program](#), Accessed February 2026
- Portion of heavy duty trucks predicted to be autonomous
McKinsey & Company, [Will autonomy usher in the future of truck freight transportation?](#), Accessed February 2026
- Sensors on vehicles and along roadways support autonomous operations
NACFE, [Autonomous Freight Corridors: Time to Stop Dreaming and Start Paving](#), Accessed February 2026
Mitsubishi Heavy Industries, [MHI-MS Delivers Merging Support Information System for Autonomous Truck Trial Project by MLIT - Sensing Data, on Vehicles Traveling on the Main Highway Obtained Prior to Entering the Acceleration Lane, Supports Safe and Smooth Merging](#), Accessed February 2026
- Truck platooning reduction in fuel usage
Zhang, Chen, Ma, Pan, [Fuel Economy in Truck Platooning: A Literature Overview and Directions for Future Research](#), Accessed February 2026
- Truck platooning faster reaction time
European Automobile Manufacturers Association, [What is Truck Platooning](#), Accessed February 2026
- Truck platooning reduction in emissions
European Automobile Manufacturers Association, [What is Truck Platooning](#), Accessed February 2026

3.0 Safety

This section contains the data sources for the statistics included on the Safety page of the pamphlet.

- Fatalities and serious injury crashes in Florida
Signal Four Analytics, [Florida Traffic Safety Dashboard](#), Accessed February 2026
- Autonomous driving systems are projected to result in 90% fewer crashes
Science Alert, [Driverless Cars Could Reduce Traffic Fatalities by Up to 90%](#), Says Report, Accessed February 2026
- 4x faster hazard detection for AVs with new hardware "reflex" system compared to current practices.
Interesting Engineering, [Machine eye: New self-driving car chip can detect danger 4 times faster than humans](#), Accessed February 2026
- Tampa Hillsborough Expressway Authority CV Pilot
Tampa Hillsborough Expressway Authority, [THEA CV Pilot](#), Accessed February 2026
- 33% of ramps on Florida's State Highway System have Wrong-Way Vehicle Detection Systems.
Florida Department of Transportation, Traffic Engineering & Operations
- 97% of detected wrong-way driving events do not result in a crash.
Florida Department of Transportation, Traffic Engineering & Operations
- 64% decrease in speeding when intelligent speed assistance is installed in a fleet.
Vision Zero Network, [Slow Down Speeders: Using Intelligent Speed Assistance in Your Community](#), Accessed February 2026
- Fewer fatal red-light-running crashes in cities with cameras
IIHS HLDI, [Red light running](#), Accessed February 2026
- Crash risk is assessed using deep learning to combine historic crashes, aerial imagery, and vehicle paths.
Institute of Electrical and Electronics Engineers, [Inferring high-resolution traffic accident risk maps based on satellite imagery and GPS trajectories](#), Accessed February 2026
- Video analytics
Kittelson & Associates, [Breaking Down Video-Based Conflict Monitoring](#), Accessed February 2026
- Crowdsourced data reduced average incident response by 10 minutes
Every Day Counts, [Crowdsourcing for Advancing Operations](#), Accessed February 2026
- Reduction in intersection injury crashes with AVs
FDOT, [Bigdata Analytics and Artificial Intelligence for Smart Intersections](#), Accessed February 2026
- Reduction in intersection crashes with smart signals
FDOT, [Before and After-Implementation Studies of Advanced Signal Control Technologies in Florida](#), Accessed February 2026

- Reduction in lane departure crashes with adoption of lane departure warning
National Safety Council, [Advanced Driver Assistance Systems](#), Accessed February 2026
- Reduction in crashes resulting from tire blowouts, with adoption of airless tires
Materials & Design, [Airless tires; Structural concepts, mechanical design, and application prospects](#), Accessed February 2026
- Accurate detection of pedestrians at midblock locations with passive detection.
FDOT, [Integration of a Robust Automated Pedestrian Detection System for Signalized Intersections](#), Accessed February 2026
- Pedestrian automatic emergency braking is proposed to be mandatory in new vehicles by 2029
NHTSA, [Federal Motor Vehicle Safety Standards; Automatic Emergency Braking Systems for Light Vehicles](#), Accessed February 2026
- 24% reduction in crash injuries after ridehail was introduced.
The Journal of the American Medical Association, [Association of Rideshare Use with Alcohol-Associated Motor Vehicle Crash Trauma](#), Accessed February 2026
- Downtown Orlando Rideshare Hubs
Downtown Orlando, [Downtown Orlando Rideshare Hub Pilot Program](#), Accessed February 2026
- Reduction in impaired driving deaths from in-vehicle impairment detection technology
The Milbank Quarterly, [The Future of Road Safety: Challenges and Opportunities](#), Accessed February 2026