



Autonomous Trucking: Lessons Learned for Safety and Supply Chain Efficiency

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Aurora

MAY 2026 CTC MEETING





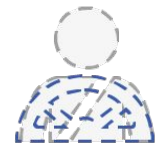
OUR MISSION

**Deliver the benefits of
self-driving technology
safely, quickly, and broadly**

Levels of Automation

Advanced **Driver Assistance System (ADAS)**

Automated Driving System (ADS)/AVs



00

No Automation

Zero autonomy; the driver performs all driving tasks.

01

Driver Assistance

Vehicle is controlled by the driver, but some driving assist features may be included in the vehicle design.

02

Partial Automation

Vehicle has combined automated functions, like acceleration and steering, but the driver must remain engaged with the driving task and monitor the environment at all times.

Conditional Automation

Driver is a necessity, but is not required to monitor the environment. The driver must be ready to take control of the vehicle at all times with notice.

04

High Automation

The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.

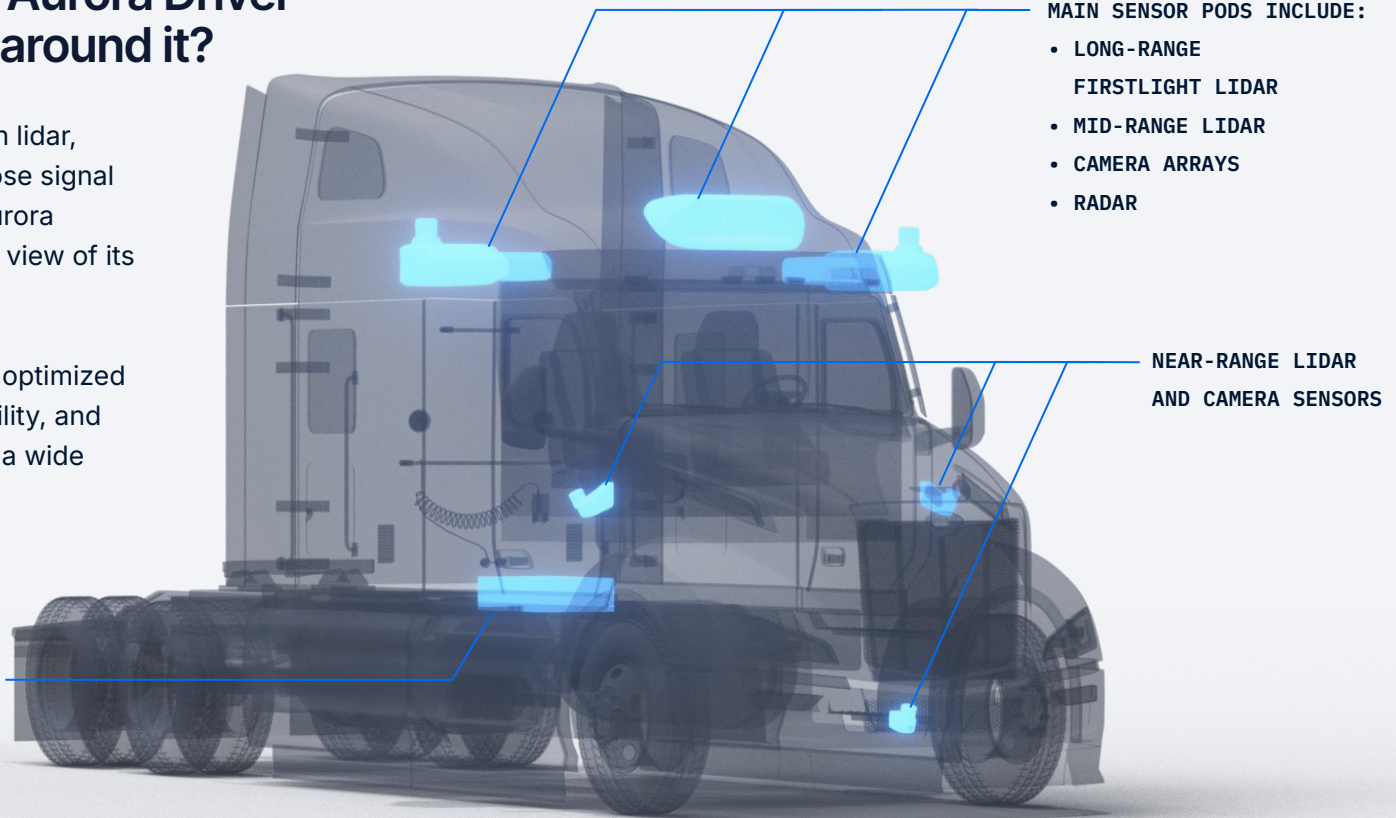
Full Automation

The vehicle is capable of performing all driving functions under all conditions. The driver may have the option to control the vehicle.

How does the Aurora Driver see the world around it?

Our sensor pods contain lidar, radar, and cameras whose signal combines to give the Aurora Driver a comprehensive view of its environment.

Their modular design is optimized for serviceability, durability, and seamless blending with a wide array of vehicles.



Firstlight provides more than 34 seconds of planning horizon

The ability to see at distance with both Lidar & Camera—is crucial to unlocking safe autonomous operation at high speed. FirstLight FMCW Lidar enables quicker reaction and longer range for safer, more capable driving.



Long Range Performance



Interference Immunity



Simultaneous Range + Velocity

1st Gen 

200m

400m

600m

800m

1000m

Next Gen Firstlight 

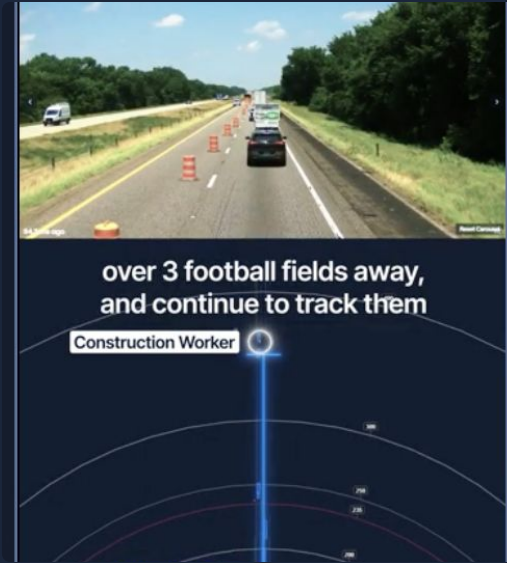
Detecting a pedestrian at night



Making way for emergency vehicles



Safely navigating a construction zone



An opportunity to address primary trucking industry challenges

INDUSTRY PAIN POINT



High driver turnover

1,200,000 additional drivers needed over the next decade¹, 90%+ annual turnover for large fleets²



THE AURORA DRIVER WILL PROVIDE

Scalable; stable driver supply



Hours of service limitations

Traditional trucking is subject to 11 hours of service limitations



Higher utilization; faster freight



High fuel costs

~\$4+/gallon diesel average in 2023³



Potential to reduce fuel use and emissions by up to 32% through more efficient vehicle operations⁶



High insurance costs

~5,900 deaths in large truck accidents in 2022,⁴ 4% annual increase, on average, in insurance premiums⁵



Safer operation; more data for fault attribution

Economic Impacts of Self-Driving Freight in the U.S.

By 2035, self-driving freight could generate **\$9.4 billion** in safety benefits per year on U.S. highways

82% Expanding Opportunity

of AV workers **make more than the U.S. median wage**. Many of these high-paying jobs are accessible to workers without a college degree.

 **\$9** billion

in **additional purchasing power** for U.S. households in 2035

Source:
Economic impacts of self-driving freight in the U.S. (2026) Steer Group.

We are autonomously hauling freight across three states

Current Operations

REGION

Sunbelt

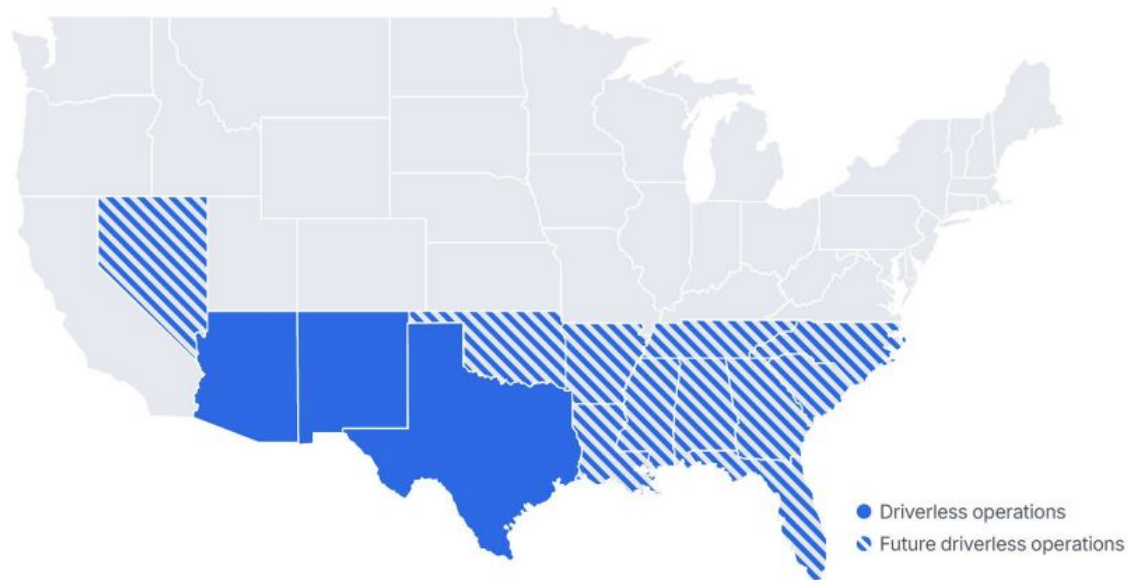
STATUS

We are autonomously hauling freight for our customers across three states

EXPANSION

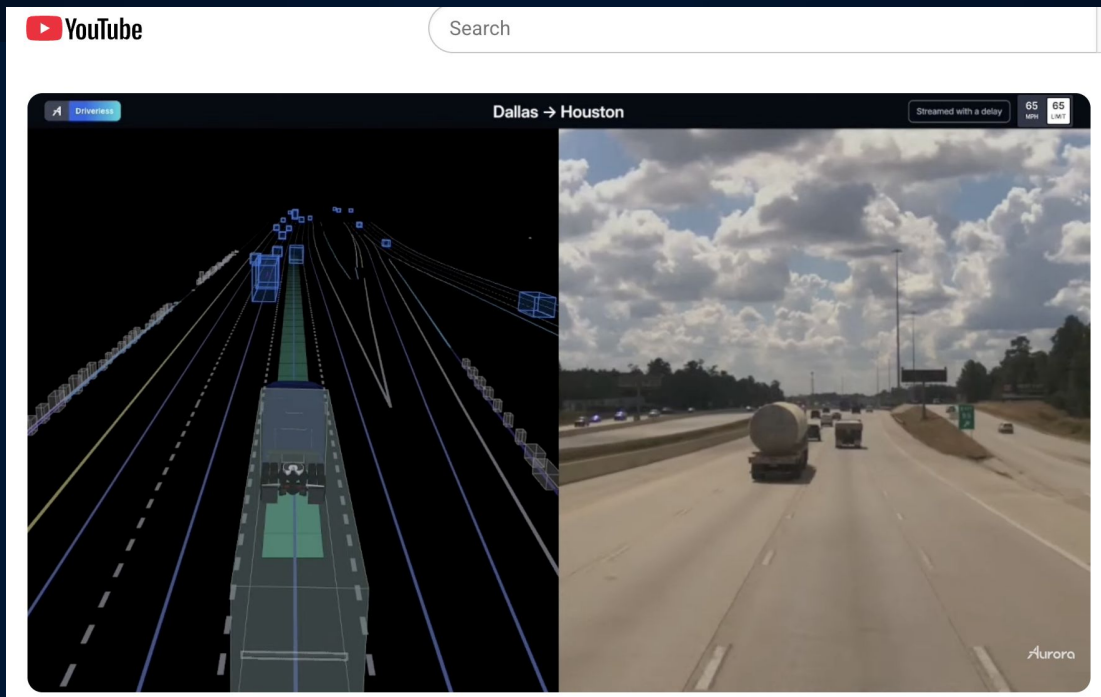
Illustrative network expansion planned through 2026

Illustrative expansion through 2026



Aurora Driver LIVE

WATCH LIVE MON-FRI | 8AM-5PM CT



www.youtube.com/@AuroraDriver

A blue semi-truck is driving on a multi-lane highway. The truck is positioned in the center-right of the frame, moving towards the viewer. It has a white trailer and is under a concrete overpass. The background shows other vehicles in the distance and a clear sky. The word "Aurora" is overlaid in large white text across the middle of the image.

Aurora

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