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Delivering the benefits of self-driving technology safely, quickly, and broadly
Improve lives
The average driver spends 54 minutes each work day commuting—the equivalent of 10 days a year

Increase safety
Every hour 154 people lose their lives on the world’s roads

Expand access
25.5 million people with a disability in the U.S. have difficulty traveling outside of the home

Transform logistics
In the U.S., trucking accounts for 300B miles annually & 65% of total goods movement

SOURCES: 1. 1.35m people die per year in road fatalities (WHO 2018) [1]. 2. In the 2017 NHTS, an estimated 25.5 million people report having disabilities that make traveling outside the home difficult. (3-20, USDOT Transportation Statistics Annual Report 2018). 3. Trucks moved 65% of Goods by weight in 2017 ([https://www.bts.gov/topics/freight-transportation/freight-shipments-mode](https://www.bts.gov/topics/freight-transportation/freight-shipments-mode)). 4. 27min one-way commute (US Census Bureau, 2018)
Chris Urmson  
Chief Executive Officer, Co-founder

Drew Bagnell  
Chief Scientist, Co-founder

Sterling Anderson  
Chief Product Officer, Co-founder

~1600  
Employees

1400+  
Product & Engineering

1100+  
Patents

1Includes patents and pending applications worldwide
The Aurora Driver is a common platform across transportation verticals.
The Aurora Driver can create immense value for trucking partners

### Speed up service and supply chains
- The Aurora Driver can operate **24 hours/day** vs a traditional truck’s 11
- Moving a load from LA to Houston drops from **2+ days to a single day**
- Can reach **entire US within a day** with only 2-3 distribution centers

### Alleviate driver shortage
- **80,000+ driver shortage** set to rise to 160,000 by 2030
- **Aging workforce** as fewer enter a difficult job, with 54% of truckers above 45 years old in 2020, compared with 31% in 1994
- **92% turnover** for large truckload for-hire carriers

### Increase safety
- Half a million US large truck crashes are reported each year
- Truck Drivers had the **most fatalities of any occupation group in 2018**
- Human factors like recklessness, fatigue and distraction are attributed to **94% of crashes**

### Improve energy efficiency
- >10% fuel and emissions reduction potential through eco-driving, off-peak deployment, and capping peak speeds

### Optimize vehicle utilization and design
- Maximum, near **24 hour** utilization potential without Hours of Service limitations
- **Optimized truck configuration** does not require heavy, expensive creature comforts

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**Sources:**
1. Deloitte ‘Autonomous trucks lead the way’ link
3. ATA Truck driver shortage analysis 2021
4. ‘Turnover Rate at Large Truckload Carriers Rises in Third Quarter’, ATA
5. Large Truck and Bus Crash Facts 2018
6. CDLLife ‘Driving a truck is the deadliest job in the U.S.’ link
7. NHTSA 2015 Critical Reasons for Crashes Investigated in the National Motor Vehicle Crash Causation Survey
8. ICCT ‘Automation in the long haul: challenges and opportunities’ paper

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Development, launch, and scale of the Aurora Driver is expected to happen in five phases:

- **Phase I**: Lay the foundation
- **Phase II**: Develop & refine
- **Phase III**: Validate
- **Phase IV**: Launch
- **Phase V**: Expand
Aurora’s FirstLight Lidar is engineered for the needs of highway driving

Multi-modal long-range sensing

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**
  Coherent light allows FirstLight to see more than twice as far as traditional lidar

- **Interference Immunity**
  Eliminates virtually all interference from sunlight and other sensors

- **Simultaneous Range + Velocity**
  Doppler effect provides high velocity precision at every point

- **FirstLight Lidar**
  - Not limited by solar loading
  - Immune to sensor interference
  - Provides instantaneous range and velocity

1 Based on internal Aurora testing of lidar
Aurora’s Virtual Testing Suite creates a paradigm shift in testing safety, efficiency, and speed

Aurora’s Virtual Testing Suite (which includes simulation and data replay technologies) improves:

- **Safety**: Dramatically reduces the number of on-road miles needed to develop the Aurora Driver
- **Efficiency**: Aurora’s motion planning simulation is 2,500x less expensive than on-road testing
- **Speed**: At scale, Aurora’s Virtual Testing Suite can simulate in one hour, the equivalent of over 50,000 trucks operating on the road. Aurora was able to simulate 2.25M unprotected left hand turns before testing that capability on public roads.
The Aurora Atlas is HD mapping with exceptional maintainability

Aurora’s Atlas architecture:

- Provides accuracy where it’s needed most: near the vehicle
- Unlocks rapid (near-real-time) updates
- Enables efficient maintenance so that map data can always be up-to-date
- Shards data so that map building can be massively parallelized
Safety Focus

Operational Safety

- Hiring & On-boarding
- On-Road Policies
- Procedures
- Continuous Learning
- Tools & Systems

Safety Case Framework

Aurora’s self-driving vehicles are acceptably safe to operate on public roads ©

- G1 Proficient: The self-driving vehicle is acceptably safe during nominal operation
- G2 Fail-Safe: The self-driving vehicle is acceptably safe in presence of faults and failures
- G3 Continuously Improving: All identified potential safety issues posting an unreasonable risk to safety are evaluated, and resolved with appropriate corrective and preventative actions
- G4 Resilient: The self-driving vehicle is acceptably safe in case of reasonably foreseeable misuse and unavoidable events
- G5 Trustworthy: The self-driving enterprise is trustworthy
Our Pilots

FedEx
Werner Enterprises
Schneider
Uber Freight

Industry collaborators

U.S. Xpress
Covenant