



### Cautionary statement regarding forward-looking statements

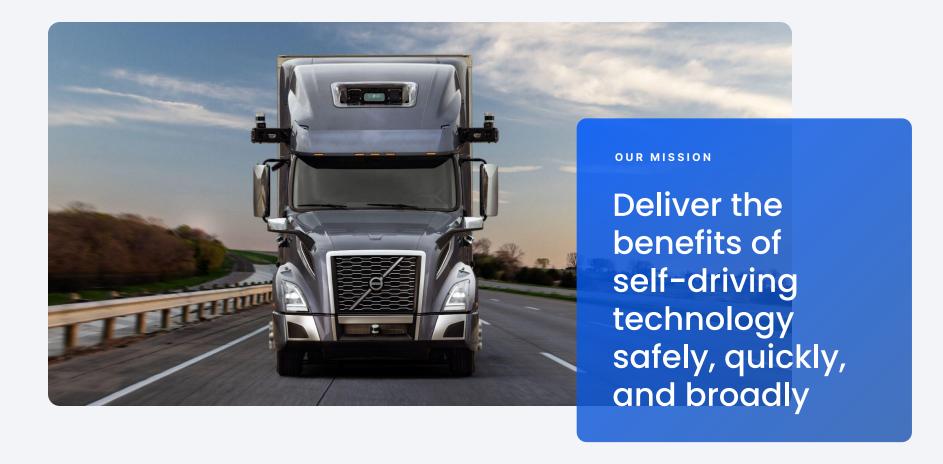
This presentation contains certain forward-looking statements within the meaning of the federal securities laws. The words "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect," "could," "would," "project," "plan," "potentially," "likely," "illustrative," "indicative," and similar expressions and variations thereof are intended to identify forward-looking statements, but are not the exclusive means of identifying such statements. All statements contained in this presentation that do not relate to matters of historical fact should be considered forward-looking statements, including but not limited, to those statements around: our ability to achieve certain milestones around, and realize the potential benefits of, the development, manufacturing, scaling, and commercialization of the Aurora Driver, related services and technology, and on the timeframe we expect or at all; the market opportunity, utilization rates and profitability of our products and services, including the serviceable addressable market for the Aurora Driver; our business model and aspects of our commercial operations following commercial launch; the potential savings and opportunities our products and services may offer current and future customers, including the anticipated unit economic of driver as a service, the associated expected gross profit and long-term gross margin and positive free cash flow; the regulatory environment for the Aurora Driver; and our expected cash runway. These statements are based on management's current assumptions and are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. In addition, statements that "we believe" and similar statements reflect management's beliefs and opinions on the relevant subject. These statements are based upon information known to us as of the date of this presentation, and although we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted a thorough inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and you are cautioned not to unduly rely upon these statements. For factors that could cause actual results to differ materially from the forward-looking statements in this presentation, please see the risks and uncertainties identified under the heading "Risk Factors" section of Aurora Innovation, Inc.'s ("Aurora") Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 15, 2024, and other documents filed by Aurora from time to time with the SEC, which are accessible on the SEC website at www.sec.gov. All forward-looking statements reflect our beliefs and assumptions only as of the date of this presentation. Aurora undertakes no obligation to update forward-looking statements to reflect future events or circumstances.

This presentation also contains statistical data, estimates and forecasts that are based on independent industry publications or other publicly available information, as well as other information based on our internal sources. This information may be based on many assumptions and limitations, and you are cautioned not to give undue weight to such information. Aurora's projected uses of cash is based upon assumptions including research and development and general and administrative activities, as well as capital expenses and working capital. We have not independently verified the accuracy or completeness of the data contained in the industry publications and other publicly available information. Aurora does not undertake to update such data after the date of this presentation.

All third-party logos appearing in this presentation are trademarks or registered trademarks of their respective holders. Any such appearance does not necessarily imply any affiliation with or endorsement of Aurora.

# Use of Non-GAAP Financial Information

This presentation makes reference to free cash flow, a non-GAAP financial measure. Free cash flow is defined as net cash provided by operating activities, the most directly comparable financial measure calculated in accordance with GAAP, less purchases of property and equipment. Aurora believes that free cash flow is a meaningful indicator of liquidity to management and investors that provides information about the amount of cash generated from our operations that, after the investments in property and equipment, can be used for strategic initiatives. Aurora believes that free cash flow provides useful information to investors and others in understanding and evaluating Aurora's operating results in the same manner as management. However, free cash flow is not a financial measure calculated in accordance with GAAP and should not be considered as a substitute for or superior to net cash provided in operations or any other operating performance measure which is calculated in accordance with GAAP. Using any such financial measure to analyze Aurora's business would have material limitations because the calculations are based on the subjective determination of management regarding the nature and classification of events and circumstances that investors may find significant and because they exclude significant expenses that are required by GAAP to be recorded in Aurora's financial measures. In addition, although other companies in Aurora's industry may report measures titled free cash flow or similar measures, such financial measures may be calculated differently from how Aurora calculates such financial measures, which reduces their overall usefulness as comparative measures. Additionally, to the extent that forward-looking non-GAAP financial measures are provided, they are presented on a non-GAAP basis without reconciliations of such forward-looking non-GAAP measures due to the inherent difficulty in forecasting and quantifying certain amounts that are necessary for such reconciliations. Because of these limitations, you should consider free cash flow alongside other financial performance measures, including net cash flow from operations and other financial results presented in accordance with applicable accounting standards.



### Aurora is in the pole position for autonomous trucking

Trucking is a massive market

Aurora Driver can unlock tremendous value for customers

Only player with strategic partnerships to enable commercialization at scale

Competitive landscape
has cleared significantly
providing an open
playing field

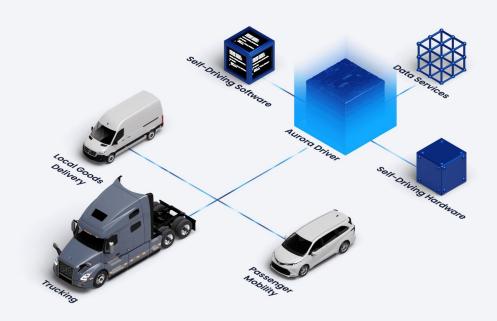
Liquidity to fund operations beyond expected Commercial Launch

Driver as a Service (DaaS) business model supports anticipated capital efficient shareholder value creation We're on the road to a scalable and self-sustaining business





We're building the Aurora
Driver around a common core
to power various vehicles in
multiple use cases—trucking is
our first focus



We're designing our autonomous trucking product to address the industry's primary pain points

## Frequency of major collisions

The Aurora Driver will provide

Safer operation

Driver shortage and high turnover

The Aurora Driver will provide

>>>

Scalable; stable driver supply

Hours of service limitations

The Aurora Driver will provide

>>>

Higher utilization; faster freight

High fuel costs

The Aurora Driver will provide

>>>

Ability to reduce fuel use and emissions

## High insurance costs

The Aurora Driver will provide

Safer operation; more data for fault attribution

## Trucking is a massive market

With attractive unit economics and significant need for this technology

~\$1 trillion

~\$4 trillion **Best in Class OEM Partners** 

**Industry-Leading Logistics Companies** 



WERNER





Fec Exx.



PACCAR

**Uber Freight** 





**O**ntinental **3** 

**Industry-Leading Fleet Service Partner** 

Pioneering Hardware as a Service Partner

Our strong, strategic

and scale in trucking

relationships support our

path to commercialization

We're on the road to a scalable and self-sustaining business



We expect to have all essential components in place for Commercial Launch



Aurora Driver technology is ready



Customers are ready



Regulators are ready



Autonomy-enabled vehicle platform is ready

We expect to have all essential components in place for Commercial Launch



**Aurora Driver** technology is ready



ready



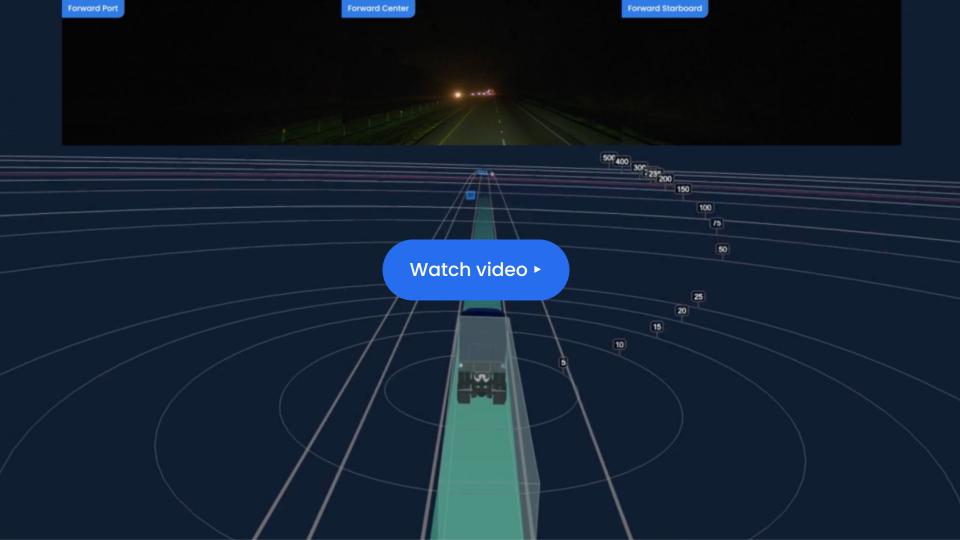
Regulators are ready



**Autonomy-enabled** vehicle platform is ready

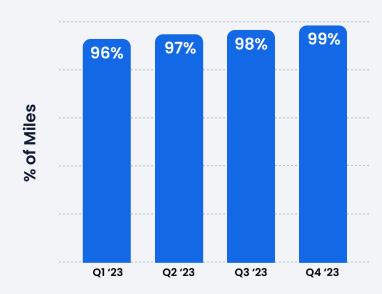
The Aurora Driver's performance is impressive in both nominal driving and complex scenarios





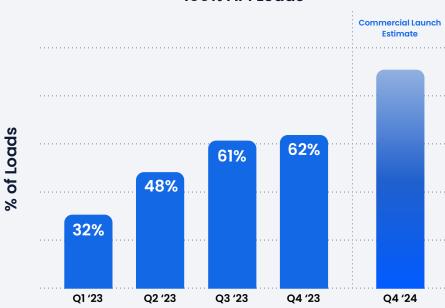
This performance is underscored by the increases we have seen in the Autonomy Performance Indicator (API)

#### Autonomy Performance Indicator (API)



In 2024, we will focus on driving up the percentage of 100% API loads

#### 100% API Loads





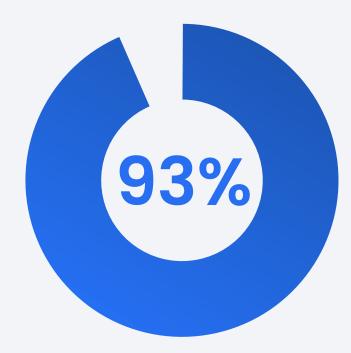
We will know that the
Aurora Driver is acceptably
safe to launch on the
Dallas to Houston lane
when we have a closed
Safety Case

#### Safety Case Framework



The Autonomy Readiness
Measure (ARM) illustrates the
great progress we are making
toward closing the Dallas to
Houston Safety Case

## Autonomy Readiness Measure (ARM) (as of mid-Jan '24)





Our validation framework is the key element supporting the closing of the remaining software Safety Case claims



#### **Scenarios Encountered in Trucking Operations**

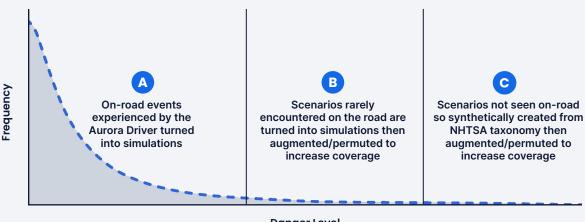
When validating a self-driving system, one of the challenges is the most dangerous scenarios on the road are also the rarest



Frequency of Encounter in Naturalistic Driving

#### Scenarios Encountered in Trucking Operations

Therefore road-based testing is not enough-**Aurora's Virtual Testing** Suite is designed to amplify exposure to rare events

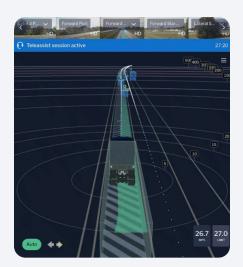


**Danger Level** 

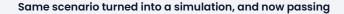


## We turn challenging on-road events the Aurora Driver has encountered into simulation tests to help determine the Aurora Driver is ready

#### Scenario experienced on road



Our vehicle operator took over as the Aurora Driver attempted to get back to the right lane with stopped vehicle and pedestrian on the shoulder





The Aurora Driver stays in the left lane







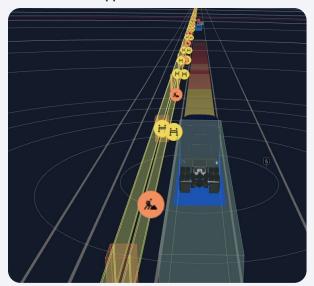
## For scenarios rarely encountered on the road, we create variations of these encounters to further challenge the Aurora Driver's performance





## We synthetically generate the rarest of events, which the Aurora Driver has not experienced on the road, from the NHTSA collision categorization and amplify them via permutation

An example of a (passing) simulation replicating a "stopped in lane" scenario



**Red box:** minimum expected response from the Aurora Driver **Blue truck:** actual response from the Aurora Driver

#### Example permutations of the same scenario



Stopped vehicle in a different position



Cones on both sides

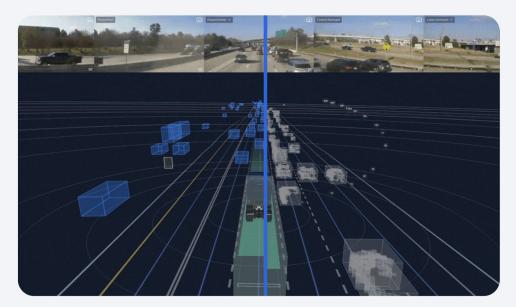


Cones on the right, moving vehicles on the left



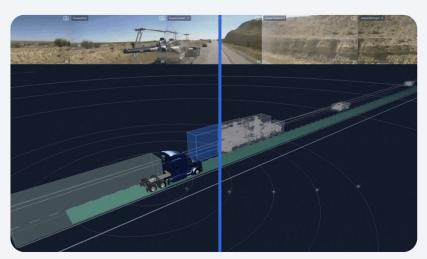
Cones on the right, moving vehicle on the left, different road curvature

This validation approach coupled with how we have architected our perception system with redundancy addresses the perceived long-tail challenge



Redundant perception system in action

## Our redundant perception system enables the Aurora Driver to identify and respond to atypical objects and actors on the highway and surface streets



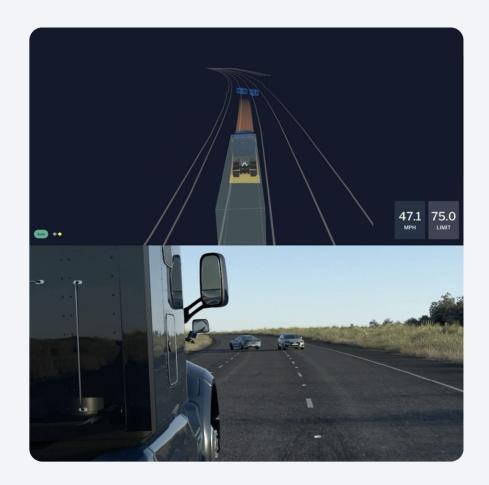
Redundant perception system tracking a helicopter being towed down the highway



Identifying and performing a lane change around a mattress in lane

To further demonstrate the Aurora Driver's expected performance on the Dallas to Houston launch lane specifically, we looked at available accident reports for fatal collisions that involved a tractor trailer for the years 2018-2022

We simulated those collisions and determined that had the Aurora Driver been driving, none of these fatal collisions would have occurred



We expect to have all essential components in place for Commercial Launch



Aurora Driver technology is ready



Customers are ready



Regulators are ready



Autonomy-enabled vehicle platform is ready

### To-date through 1/31/24, we've delivered



1,000,000+

Nearly 100%

Miles

On-Time

## In 2024, we're aiming to double our loads per week through existing and incremental customer growth as we prepare for Commercial Launch

#### **Scheduled Commercial Loads Per Week**

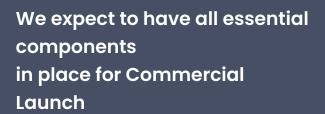


Through our Commercial
Readiness Program, pilot
customers will have the
opportunity to more deeply
assess the Aurora Driver's
performance as a final step
to move forward with
driverless operations



**Four Comprehensive Stages** 







**Aurora Driver** technology is ready



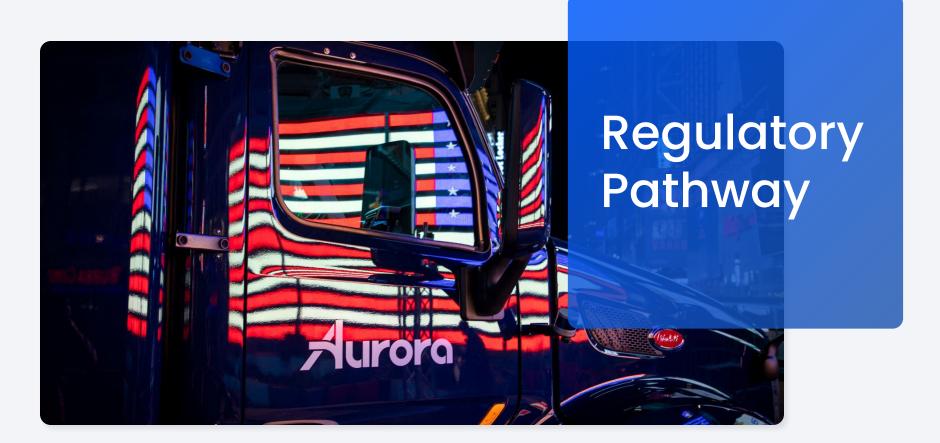
ready



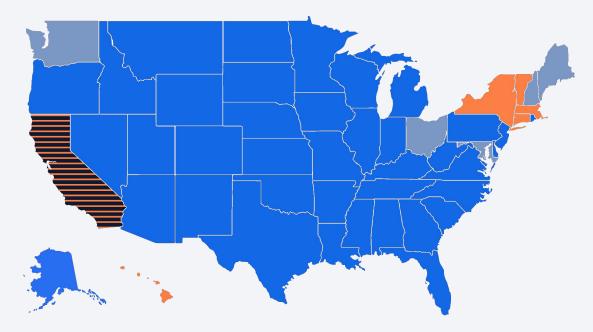
Regulators are ready



**Autonomy-enabled** vehicle platform is ready



**Under existing law and** regulation, autonomous vehicles can be deployed in the vast majority of states in the U.S. today including our Texas launch market

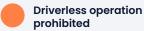




24 states expressly allow and 16 states implicitly allow the driverless deployment of autonomous vehicles



CA prohibits autonomous trucking testing and deployment, but allows the testing and deployment of autonomous light vehicles



LA and AL allow autonomous commercial vehicle operations, but have no existing regulations regarding autonomous light vehicle operations



**Autonomous trucking** currently prohibited



Under existing law and regulation, autonomous vehicles can be deployed in the vast majority of states in the U.S. today including our Texas launch market



Deployment permitted

24 states expressly allow and 16 states implicitly allow the driverless deployment of autonomous vehicles Testing permitted

CA prohibits autonomous trucking testing and deployment, but allows the testing and deployment of autonomous light vehicles Driverless operation prohibited

\* LA and AL allow autonomous commercial vehicle operations, but have no existing regulations regarding autonomous light vehicle operations







We work collaboratively with regulators and lawmakers at the federal, state, and local levels



"It sounds
like Aurora is
developing the
gold standard."

-Congressman Salud Carbajal (D-CA)



Chris Urmson presenting to the House Transportation & Infrastructure Committee on "The Future of Automated Commercial Motor Vehicles: Impacts on Society, the Supply Chain, and U.S. Economic Leadership"



"Autonomous vehicles are

expected to help improve

The state of Texas welcomes autonomous vehicle testing and expressly permits the deployment of driverless trucks

"Autonomous trucks are growing to be an important part of Texas' economy and supply chain... We'd like to thank Aurora for partnering with our department in this endeavor, and for their transparency during the process."

- Officer T. Mrozinski, Frisco PD Traffic Unit - Commercial Motor **Vehicle Enforcement** 



Dallas to simulate how autonomous trucks can recognize and respond to emergency vehicles

We expect to have all essential components in place for Commercial Launch



Aurora Driver technology is ready



Customers are ready



Regulators are ready



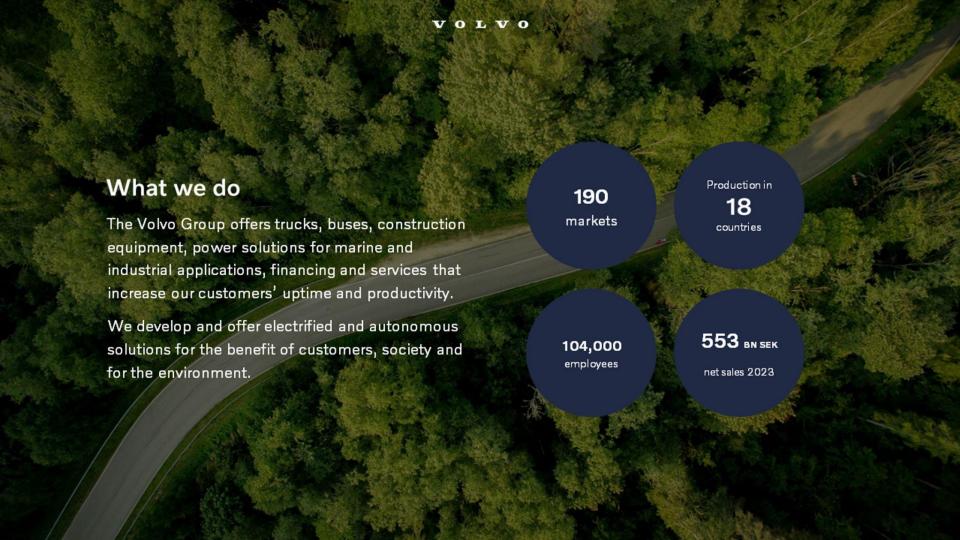
Autonomy-enabled vehicle platform is ready



We are testing prototype autonomous Volvo VNL trucks equipped with safety-critical redundant systems installed by Volvo







## Volvo Autonomous Solutions: Transforming the movement of goods through efficient, sustainable, and safe autonomous transport solutions

To prepare for commercial launch, we have started to manually haul loads for key customers to test aspects of the transport solution and establish frameworks and procedures for safe and reliable operations.

Volvo Autonomous Solutions has achieved an industry-first milestone with the removal of the safety driver in an active commercial mining operation at Brönnöy Kalk mine in Velfjord, Norway. Now running revenue generating production shifts, fully autonomously.



#### Safety and redundancy are in our DNA



#### Applicable across vehicle platforms

SVAT architecture & virtual driver integration interfaces based on Volvo's Common Architecture & Shared Technology for all brands, powertrains, markets & applications

#### Standardized integration

Volvo has integrated and centralized the controls for braking, steering, propulsion, and by that standardized the integration of Aurora driver

#### Redundant systems

Redundant steering, redundant braking, redundant communication, redundant power management and energy storage, redundant computation, and vehicle motion management systems ensure safety even if severe faults occur in the vehicle

## Purpose built vehicle for autonomous operations



## Volvo and Aurora share a clear path towards driverless launch and scaling



## On path towards commercial growth







Moving commercial freight for key partners



Aurora Terminal



CVSA certification
For Enhanced Pre-Trip
Inspections (EPTI)

#### VOLVO

## Privileged access to the global scale and resources of the Volvo Group

Including top-tier hardware renowned for safety and performance







New River Valley for high-volume production

Best-in-class hardware

1000+ dealer and service points

## Two strong teams: 1+1 > 2



With the delivery of the autonomy-enabled vehicle platform, we expect to have all essential components in place for Commercial Launch



Aurora Driver technology is ready



Customers are ready



Regulators are ready



Autonomy-enabled vehicle platform is ready

We're on the road to a scalable and self-sustaining business



#### Our path to expected gross profit in 2026 is supported by:

#### **Revenue drivers**



Rapid Iane penetration & expansion



Increased asset utilization



Increased value creation

#### **Cost reduction levers**



Realization of remote assistance efficiencies



Reduction in on-site support



Introduction of next-generation hardware

Leveraging our R&D investments to-date, we expect to rapidly scale the Aurora Driver given the self-similarity of the U.S. interstate highway system



#### Anticipated 2024 Launch Lane

We have already transferred the Aurora Driver's capabilities from the Dallas to Houston lane to the Fort Worth to El Paso lane

#### Illustrative lane expansion through 2026

Unlocking longer lanes across the Sun Belt will increase utilization and be a key driver of our near-term top-line growth

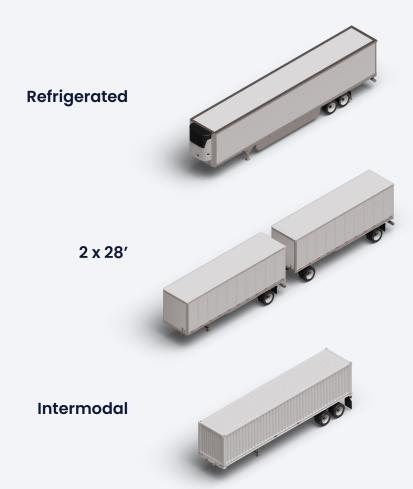


Anticipated 2024 Launch Lane

Supportable operating conditions will expand, unlocking high asset utilization on new and existing lanes



Proven operational performance and new trailer types will allow increased penetration of open lanes

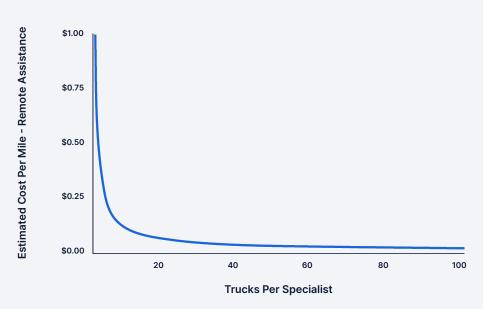


Following our terminal to terminal launch, we plan to unlock customer endpoints to augment our terminal footprint and increase customer value



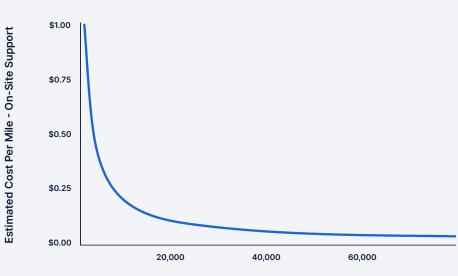
As the Aurora Driver's performance continues to improve, we expect to reduce remote assistance costs

## Remote support specialist to AV trucks ratio will significantly improve over time, driving down cost per mile



# We also expect this performance improvement to reduce the need for on-site support

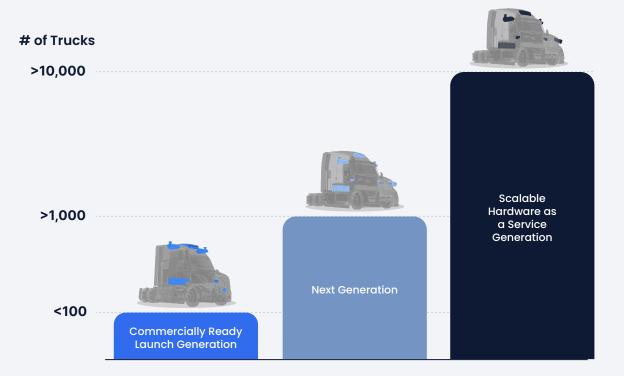
## Frequency of on-site support will decline over time, further reducing cost per mile



Miles Between On-Site Support



Our hardware strategy is designed to support our scaling and cost reduction objectives



Next generation kit designed for 1M miles, improved reliability, and assembly by contract manufacturer to support positive gross profit objective # of Trucks >10,000 >1,000 **Next Generation** <100

Our hardware strategy is designed to support our scaling and cost reduction objectives

Next generation kit designed for 1M miles, improved reliability, and assembly by contract manufacturer to support positive gross profit objective In 2025, we plan to introduce our next generation hardware kit that is designed to drive a step function reduction in cost while also bringing exciting performance gains



Our next generation computer delivers a 40%+ reduction in power and weight at approximately half the cost



Our next generation FirstLight Lidar delivers meaningful resolution, field of view, and range increases with nearly 40% reduction in cost





Also key to reducing
hardware costs is increased
reliability - our next
generation kit is designed for
1M miles of operation



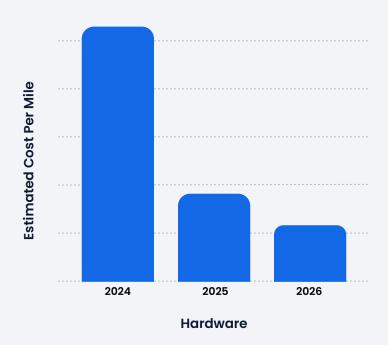




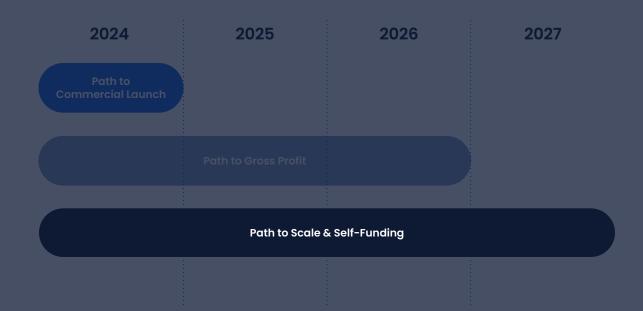


Reduction in material costs and increased reliability enables the achievement of our targeted 50%+ cost reduction goal for this next generation hardware kit

#### Aurora Driver hardware cost efficiencies due to lower bill of materials (BOM) costs, increased useful life, and improved reliability



We're on the road to a scalable and self-sustaining business



# of Trucks >10,000 >1,000

<100

Commercially Ready Launch Generation

Scalable Hardware as a Service Generation

> Hardware as a Service structure - Aurora pays for the hardware on per mile basis

FirstLight Lidar on a chip

Our hardware strategy

is designed to support

our scaling and cost

reduction objectives



## Our path to scale & self-funding is supported by our:



Continental Hardware as a Service partnership

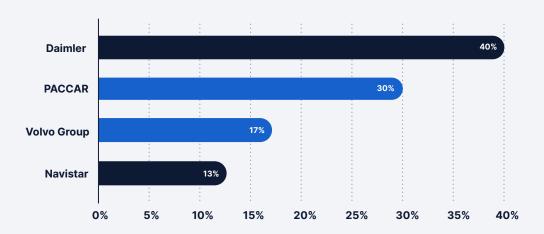


OEM partnerships with Volvo Trucks and PACCAR

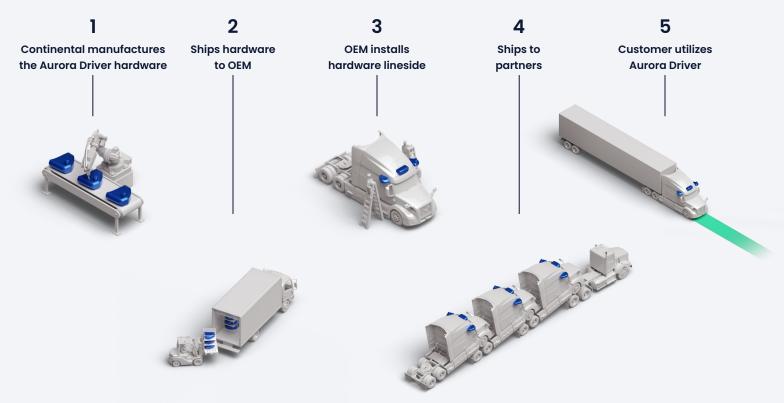


Rapid lane expansion

Our strategic partnerships with two of the top four class 8 truck OEMs that collectively represent ~50% of the U.S. market are key scaling enablers

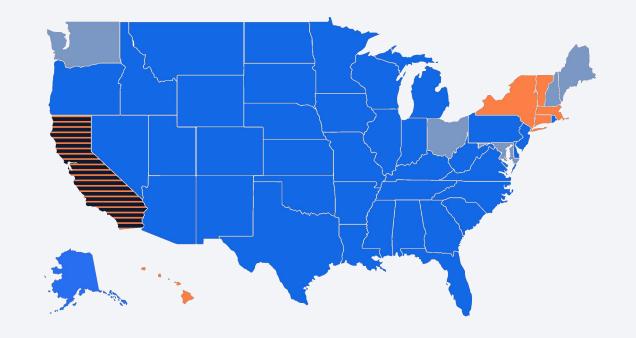


## The Complete Aurora Driver Freight Ecosystem





Under existing law and regulation, autonomous vehicles can be deployed in the vast majority of states in the U.S. today





24 states expressly allow and 16 states implicitly allow the driverless deployment of autonomous vehicles.

# Testing permitted

CA prohibits autonomous trucking testing and deployment, but allows the testing and deployment of autonomous light vehicles.



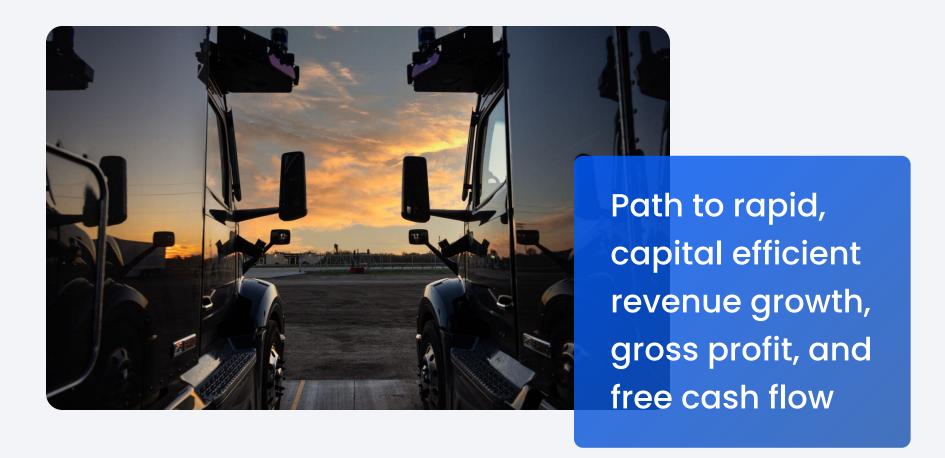
\* LA and AL allow autonomous commercial vehicle operations, but have no existing regulations regarding autonomous light vehicle operations.





### Aurora Driver Indicative Roadmap to Scale





# Aurora End of 2023 Snapshot

| Operational Profile                                     | 2023              |
|---|-------------------|
| Announced Customers                                     | 7                 |
| Commercial Loads  | ~3,000            |
| Commercial Miles  | 820,000+          |
|   | <b>A</b>          |
| Financial (\$M)   |                   |
| Pilot Revenue   | ~\$2 <sup>1</sup> |
| Operating Expenses (excluding stock-based compensation) | \$675             |
| Cash Used in Operations                                 | \$598             |
| Capital Expenditures                                    | \$15              |
| Liquidity <sup>2</sup> (as of 12/31/23)                 | \$1,348           |
|   |                   |

Liquidity now expected to fund operations into 4Q25



# Driving our business in key focus areas

#### **Utilization Per Truck**

#### Increasing truck miles traveled

- Lane expansion
- Capability expansion
- Market share capture

#### **Gross Profit Per Truck**

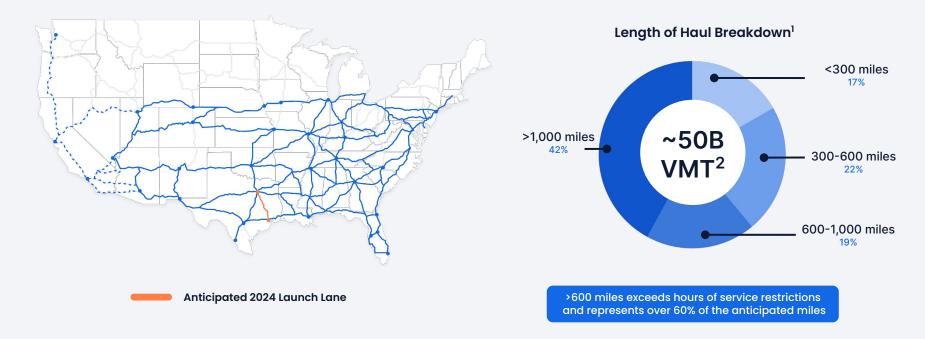
#### Increasing revenue per mile

- Deliver total cost of ownership (TCO) benefits
- Opening customer end-points

#### Reducing cost per mile

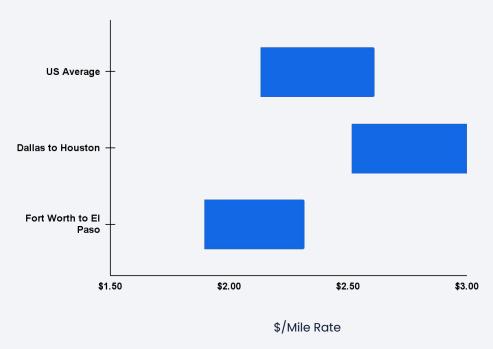
- Hardware cost reduction
- Remote assistance
- On-site support
- Insurance claims

# We expect the Aurora Driver to operate in a 50B VMT serviceable addressable market (SAM) by the start of 2028



We expect to own and operate a small fleet in early commercialization with associated Transportation as a Service (TaaS) revenue to be driven by market rates and the value we create

#### Average Dry Van Rates for 2023<sup>1</sup>



Our Driver as a Service (DaaS) business model is highly capital efficient and aligns with our customers' needs

| Description                        | Aurora provides its technology to an external fleet owner and/or operator   |
|------------------------------------|---|
| Revenue                            | Fee per mile  |
| Costs borne by Aurora <sup>1</sup> | Variable: Aurora Driver hardware cost <sup>2</sup> , remote assistance, on-site support, other, i.e. insurance <sup>3</sup> |
|                                    | Fixed: Development and extension of Aurora Driver   |

Fleet Ownership & Operation

Third party

We expect the Aurora **Driver to provide** meaningful total cost of ownership (TCO) benefits



More efficient and less variable driver costs



Increased revenue per truck with potential to more than double asset utilization



Better fuel economy

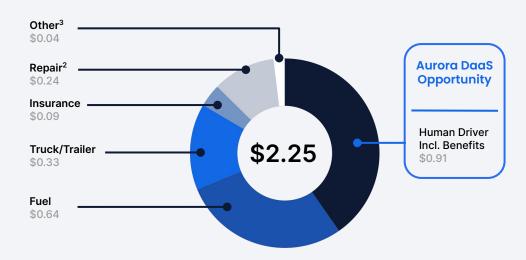


Reduced insurance costs



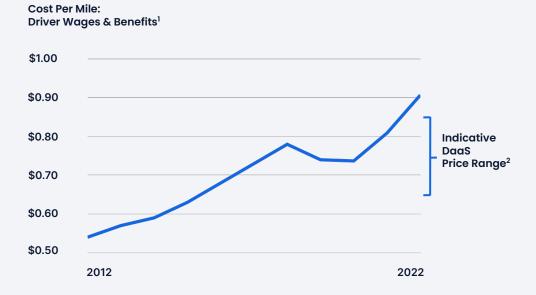
#### **Current Trucking Cost Per Mile<sup>1</sup>**

Our product and pricing strategy are designed to drive a compelling value proposition versus existing alternatives



#### Trucking labor costs continue to rise

Indicative DaaS pricing range provides customer TCO benefit while supporting "SaaS" like gross margins



Under DaaS pricing, Aurora customers have an opportunity to achieve lower costs, with a more predictable and stable supply, versus today's alternatives

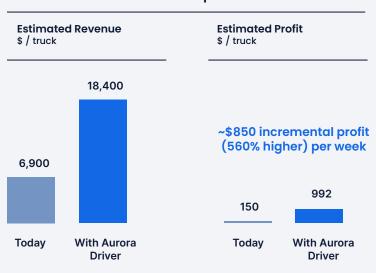
In comparison to today's driver costs plus reducing other indirect costs, we have an opportunity to reduce customers' driver costs by 20-40%

In addition to driver costs (\$0.91), there are indirect cost reduction opportunities (est. \$0.15):

- No driver sourcing or turnover costs
- No workers compensation
- No ongoing driver training
- Reduced driver management and driver services overhead

## Customer Perspective: Delivers significant revenue and profit growth

# Illustrative Terminal-to-Terminal Case Study: 1 week comparison

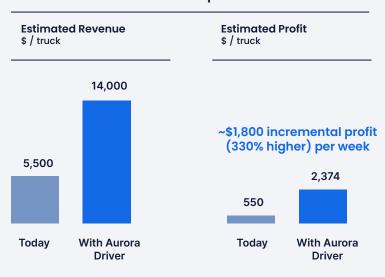




| Assumptions                 | Today               | With Aurora<br>Driver |
|-----------------------------|---------------------|-----------------------|
| Trips / week                | 3                   | 8                     |
| Revenue / mile <sup>1</sup> | \$2.30              | \$2.30                |
| Cost / mile                 | \$2.25 <sup>2</sup> | \$2.18 <sup>3</sup>   |
| Net Margin                  | 2%                  | 5%                    |

## Customer Perspective: Delivers significant revenue and profit growth

# Illustrative End-to-End Case Study: 1 week comparison





| Assumptions                 | Today               | With Aurora<br>Driver |
|-----------------------------|---------------------|-----------------------|
| Trips / week                | 11                  | 28                    |
| Revenue / mile <sup>1</sup> | \$2.50              | \$2.50                |
| Cost / mile                 | \$2.25 <sup>2</sup> | \$2.08 <sup>3</sup>   |
| Net Margin                  | 10%                 | 17%                   |

# Scaling and improvement in key cost levers provide a glidepath to expected positive gross profit in 2026 and SaaS-like margins over time

#### **Key Efficiency Drivers**

- Step change improvements in Aurora Driver hardware cost and reliability
- Transition from 1:few to 1:many remote assist specialists to trucks
- Reduction in on-site support
- Insurance cost improvements resulting from an expanding safety record, driving history, and scene recording



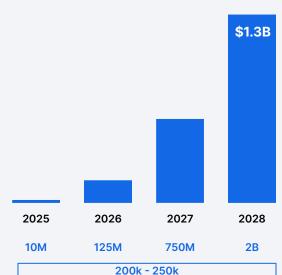
Gross Margin % (E)

# Execution of our customer-centric strategy can drive high margins and positive free cash flow in 2028

#### **Key Drivers & Assumptions**

- Gross margin expansion to ~70% by 2028
- Controlled spend cash use including capex averaging \$175-\$185M per quarter until free cash flow positive
  - Capex peaks in 2026 at ~\$80M and 0 reduces to less than \$10M per year thereafter with Continental Hardware as a Service structure
- Incremental capital of ~\$850M required to achieve positive free cash flow

#### **Estimated Revenue**





Annual Miles per Truck (E)



We expect to have all essential components in place for Commercial Launch



Aurora Driver technology is ready



Customers are ready



Regulators are ready



Autonomy-enabled vehicle platform is ready

We're on the road to a scalable and self-sustaining business





