

# Volvo Cars, Zoox, SAIC and More Join Growing Range of Autonomous Vehicle Makers Using New NVIDIA DRIVE Solutions

## NVIDIA's Automotive Pipeline Now Exceeds \$8 Billion for AI-Based Mobility Solutions

**GTC** -- Volvo Cars, Zoox and SAIC are among the growing ranks of leading transportation companies using the newest [NVIDIA DRIVE™](#) solutions to power their next-generation AI-based autonomous vehicles, NVIDIA announced today.

NVIDIA's design-win pipeline for NVIDIA DRIVE now totals more than \$8 billion over the next six years, reflecting a growing range of next-generation cars, trucks, robotaxis and new energy vehicles (NEVs).

"Transportation is becoming a technology industry. Besides having amazing autonomous driving and AI technologies, vehicles will be programmable platforms to offer software-driven services. The business models of transportation will be reinvented," said Jensen Huang, founder and CEO of NVIDIA. "Our design wins demonstrate how NVIDIA is partnering with one of the world's largest and most impactful industries to help revolutionize the future of mobility."

### Volvo Cars and NVIDIA Extend Collaboration

Volvo Cars announced that it will use NVIDIA DRIVE Orin™ to power the autonomous driving computer in its next-generation cars, extending the companies' deep collaboration over the last few years. The first car featuring DRIVE Orin technology, the next-generation Volvo XC90, is planned to be revealed next year.

NVIDIA DRIVE Orin's high-performance, energy-efficient compute will work together with software developed in-house by Volvo Cars and Zenseact (Volvo Cars' autonomous driving software development company), an advanced sensor suite that includes lidar as well as steering and braking backup systems. As a result, the global automaker's fleet of intelligent vehicles will be safer, more personal and sustainable — along with being richly programmable and perpetually upgradable via over-the-air software updates designed to make Volvo Cars' next-gen vehicles better every day.

Read more about [Volvo Cars' announcement](#).

### Robotaxis Turn to DRIVE

The world is moving trillions of miles a year, and more and more of these miles are being delivered as a service, thanks to the robotaxi companies developing on the NVIDIA DRIVE platform.

Zoox recently unveiled its purpose-built robotaxi designed for everyday urban mobility. The vehicle is powered by NVIDIA DRIVE and is one of the first robotaxis featuring bi-directional capabilities, putting the next generation of intelligent transportation into motion.

DiDi, China's leading mobility-as-a-service provider, has also announced it is adopting NVIDIA DRIVE for its entire autonomous driving test fleet. These robotaxi companies join others already developing on the NVIDIA DRIVE platform, including Pony.ai and Auto X.

Read more about some of these [robotaxi leaders using NVIDIA DRIVE](#).

### Sparking the NEV Revolution

Additionally, a growing number of automotive startups and EV brands have in recent months announced plans to build software-defined vehicles using NVIDIA DRIVE Orin to deliver continuously improving AI capabilities, beginning as early as next year. They include:

- SAIC, China's largest automaker, which is readying two new EV brands packed with advanced AI features. The R Auto family of next-gen vehicles will feature the R-Tech advanced intelligent assistant, powered by NVIDIA DRIVE Orin, to run perception, sensor fusion and prediction for automated driving features in real time. Its ultra-premium IM brand — a joint venture with Alibaba — will deliver long-range EVs powered by NVIDIA DRIVE Orin, including a sedan and SUV with autonomous parking and other automated driving features. Orders are starting now for the sedan, with the SUV following in 2022.
- Faraday Future, a global intelligent mobility company, which is using NVIDIA DRIVE Orin in its flagship ultra-luxury FF 91 EV to achieve advanced highway autonomous driving capabilities and advanced parking and summon features when it goes on sale in 2022. Its next-generation FF 71 and FF 81 vehicles, which will be available in 2023 and 2024, respectively, will also be powered by NVIDIA DRIVE Orin.
- Vietnam's leading automaker, VinFast, which is starting mass production of its VF e34, VF e35 and VF e36 intelligent

EVs with level 2-3 autonomous capabilities. It plans to upgrade these premium EV models from NVIDIA DRIVE Xavier™ to NVIDIA DRIVE Orin.

- Nio, which has announced that its ET7 sedan will offer advanced automated driving capabilities featuring a supercomputer, dubbed Adam, powered by four NVIDIA DRIVE Orin SoCs totaling 1,000 TOPS. The ET7 will start to ship in China in 2022.
- Li Auto, which is developing next-gen EVs using NVIDIA DRIVE Orin with plans to ship in 2022. The China carmaker's new EVs are being developed in collaboration with tier-1 supplier Desay SV and feature advanced autonomous driving features and an extended battery range.
- Xpeng, which is already putting its advanced driving technology on the road with the P7 sedan. Last month, the automaker completed a record-setting, six-day cross-country autonomous drive with a fleet of P7 vehicles powered by NVIDIA DRIVE Xavier. Xpeng plans to upgrade to NVIDIA DRIVE Orin in 2022.

Read more about the new generation of [electric vehicles built on NVIDIA DRIVE](#).

### **Trucks to Hit the Road with NVIDIA DRIVE**

The trucking industry is plagued by a severe driver shortage amid growing demand for e-commerce goods. The NVIDIA DRIVE platform helps deliver safe, fully autonomous trucks that can operate in geo-fenced areas, public roads and highways.

Navistar is partnering with TuSimple to build self-driving trucks designed from the ground up for level 4 autonomous operation, powered by NVIDIA DRIVE. The U.S. maker's intelligent trucks are targeted for production by 2024.

China's largest truck maker, FAW, is working with Plus to develop autonomous trucks on the NVIDIA DRIVE platform. These trucks will start production later this year and will upgrade to Orin in 2022.

Volvo Autonomous Solutions, part of Volvo Group, is also using the end-to-end NVIDIA DRIVE platform for the development of autonomous transport solutions and next-generation level 4 trucks.

For more information on these and other GTC announcements, Huang's [keynote address](#) is available for on-demand streaming.

### **About NVIDIA**

[NVIDIA's](#) (NASDAQ: NVDA) invention of the GPU in 1999 sparked the growth of the PC gaming market and has redefined modern computer graphics, high performance computing and artificial intelligence. The company's pioneering work in accelerated computing and AI is reshaping trillion-dollar industries, such as transportation, healthcare and manufacturing, and fueling the growth of many others. More information at <https://nvidianews.nvidia.com/>.

Certain statements in this press release including, but not limited to, statements as to: the expected pipeline of automotive orders for NVIDIA DRIVE; the car industry becoming a technology industry, where vehicles will be completely programmable computers and business models will be reinvented; vehicles having autonomous driving and AI technologies; NVIDIA's design wins demonstrating how it is partnering with an industry that will revolutionize the future of mobility; the impact and benefits of the NVIDIA DRIVE platform and NVIDIA's collaborations with car makers; the features, benefits and availability of cars with NVIDIA DRIVE technology; and more of the world's moving miles being delivered as a service are forward-looking statements that are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic conditions; our reliance on third parties to manufacture, assemble, package and test our products; the impact of technological development and competition; development of new products and technologies or enhancements to our existing product and technologies; market acceptance of our products or our partners' products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of our products or technologies when integrated into systems; as well as other factors detailed from time to time in the most recent reports NVIDIA files with the Securities and Exchange Commission, or SEC, including, but not limited to, its annual report on Form 10-K and quarterly reports on Form 10-Q. Copies of reports filed with the SEC are posted on the company's website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

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