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# Continental and Aurora Finalize Design of World's First Scalable Autonomous Trucking System

- Aurora and Continental reach key development milestone of exclusive partnership: Completion of blueprint and design of the future Aurora Driver hardware and fallback system
- Companies release a roadmap to the planned Start of Production (SOP) in 2027 based on detailed development plans and key milestones
- Lineside integration: As part of the roadmap to 2027, Continental will work closely with and directly ship the Aurora Driver hardware to Aurora's truck manufacturing partners

AUBURN HILLS, Mich. & PITTSBURGH--(BUSINESS WIRE)-- Continental and Aurora Innovation (NASDAQ: AUR) announced they have achieved a key development milestone to commercialize autonomous trucks at scale. The companies have finalized the design and architecture of the future fallback system and hardware of the Aurora Driver – an SAE (Society of Automotive Engineers) Level 4 autonomous driving system – that Continental plans to start production of in 2027. The finalized hardware design comes less than a year after the companies entered an industry-first partnership aimed at high-volume manufacturing of autonomous trucking systems.

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20240105601574/en/>

## World's first serviceable automotive-grade autonomous system at scale

Introducing new hardware to the market is complex and time-intensive, often taking years from initial design to the start of production. Recognizing this challenge early on, Aurora teamed up with Continental to jointly develop reliable, serviceable, cost-efficient autonomous hardware kits for mass production. The partnership gives Aurora a path to deploy autonomous trucks at scale after its initial driverless launch, planned at the end of 2024. With Continental's automotive development and manufacturing expertise, the future Aurora Driver will be designed to deliver customer value for one million miles.

“Technologies for autonomous mobility present the biggest opportunity to transform driving behavior since the creation of the automobile,” said Philipp von Hirschheydt, Executive Board member for the Automotive Group sector at Continental. “Achieving this milestone puts us on a credible path to deploy easy-to-service autonomous trucking systems that customers demand.”

## Joining engineering forces to maximize safety

Aurora is also working with Continental's world-class engineering team to provide an

industrialized fallback system that is expected to go into production in 2027. To operate safely without a human driver, autonomous vehicles require built-in redundancies that provide backups in the rare case a component or sensor fails. One of these redundancies is the fallback system – a specialized secondary computer that can take over operation if a failure occurs in the primary system. This innovative dual engineering approach is intended to reduce the exposure of the main and fallback system to single points of failure.

“From day one, we knew we’d need to build a strong ecosystem of partners to bring this technology to market safely and at a commercial scale,” said Chris Urmson, Co-Founder and CEO at Aurora. “Finalizing the design of our future hardware is a meaningful step toward making the unit economics of the Aurora Driver compelling and building a business for the long-term.”

### **The Path to the Start of Production in 2027**

Continental and Aurora are also sharing their four-year partnership roadmap to commercialize thousands of autonomous trucks:

- **2023 – Blueprint and Design:** Aurora and Continental align on the detailed system architecture, key requirements, and detailed technical specifications of the Aurora Driver hardware and new high-performance fallback system. This phase is complete.
- **2024-2025 – Build and Test:** With the system architecture in hand, Continental will build initial versions of the hardware for testing at its new facility in New Braunfels, Texas, USA, and across its global manufacturing footprint.
- **2026-2027 – Finalization, Start of Production, and Integration:** Continental will industrialize and validate the future Aurora Driver hardware and fallback system before the Start of Production at its facilities. The hardware will leverage a wide spectrum of Continental’s extensive automotive product portfolio from sensors, automated driving control units (ADCU), high-performance computers (HPC), telematics units, and more. The hardware and fallback system will be shipped to Aurora’s trucking manufacturing partners for integration into autonomous-ready vehicles. During this phase, the companies will also develop a service playbook and maintenance network for Aurora’s customers.
- **2027 and beyond – Deployment at Scale:** Thousands of trucks integrated with the Aurora Driver are ready to autonomously haul freight across the U.S.

“Entering an exclusive partnership with Aurora was a very good decision as it is an ideal match,” von Hirschheydt added. “Being the industry’s only tier-one supplier with a commitment to industrialize autonomous hardware kits at scale allows us to be at the forefront of and capitalize on this groundbreaking technology.”

### **Continental and Aurora at CES 2024**

Continental will showcase its latest technologies, including its work with Aurora, at a structure exhibit in Central Plaza across from the Las Vegas Convention Center from Tuesday, January 9 through Friday, January 12. An invitation-only media event has been scheduled for January 9. Please contact Mary Arraf for details.

To learn more about this news and partnership, please visit us at Continental’s booth.

Follow Continental CES 2024 highlights on Facebook, Instagram, and X: #ContinentalCES

## About Continental

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2022, Continental generated sales of €39.4 billion and currently employs around 200,000 people in 57 countries and markets.

## About Aurora

Aurora (Nasdaq: AUR) is delivering the benefits of self-driving technology safely, quickly, and broadly to make transportation safer, increasingly accessible, and more reliable and efficient than ever before. The Aurora Driver is a self-driving system designed to operate multiple vehicle types, from freight-hauling trucks to ride-hailing passenger vehicles, and underpins Aurora Horizon and Aurora Connect, its driver-as-a-service products for trucking and ride-hailing. Aurora is working with industry leaders across the transportation ecosystem, including Continental, FedEx, PACCAR, Ryder, Schneider, Toyota, Uber, Uber Freight, Volvo Trucks and Werner. For Aurora's latest news, visit [aurora.tech](http://aurora.tech) and [@aurora\\_inno](https://twitter.com/aurora_inno).

## CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This press release contains certain forward-looking statements within the meaning of the United States federal securities laws. All statements contained in this press release that do not relate to matters of historical fact should be considered forward-looking statements, including but not limited to: those statements around Aurora's and Continental's ability to develop, bring to market, manufacture, and scale, autonomous systems and related products and services on the timeframe we expect or at all; statements relating to anticipated market demand for, and cost efficiencies resulting from, autonomous trucking solutions; and statements regarding the impact of autonomous driving systems on customer operations. These statements are based on the current assumptions of Aurora's and Continental's management and are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual performance or achievements to be materially different from any future performance or achievements expressed or implied by the forward-looking statements. For factors that could cause actual results to differ materially from the forward-looking statements in this press release, please see the risks and uncertainties identified under the heading "Risk Factors" in Aurora's Annual Report on Form 10-K for the year ended December 31, 2022, filed with the United States Securities and Exchange Commission (SEC) on February 21, 2023, its Quarterly Report on Form 10-Q for the quarter ended September 30, 2023, filed with the SEC on November 2, 2023 and other documents filed by Aurora from time to time with the SEC, which are accessible on the SEC website at [www.sec.gov](http://www.sec.gov). All forward-looking statements reflect Aurora's and Continental's beliefs and assumptions only as of the date of this press release. Aurora and Continental undertake no obligation to update forward-looking statements to reflect future events or circumstances.

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Press contacts

Mary Arraf

Head of Communications Automotive

Continental, North America

Phone: +1 248 766-9241

Email: [mary.arraf@continental.com](mailto:mary.arraf@continental.com)

Rachel Chibidakis

Partner and Product Communication

Aurora

Phone: +1 415-314-9392

Email: [press@aurora.tech](mailto:press@aurora.tech)

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