

Press Release

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Volvo EX90 to support Google's new HD map

In our upcoming Volvo EX90, lidar, cameras and radars come together to understand your car's surroundings and help keep you safe. To further improve our assisted-driving technologies and eventually reach autonomous driving in the future, we also need a way to recognise your environment at detail – both immediately in front of you and at longer distances beyond the twists and turns ahead.

Enter Google's HD map – a comprehensive map designed specifically for car makers that provides highly detailed and up-to-date road information.

Continuing our long-standing collaboration with Google, Volvo Cars and our strategic affiliate Polestar will be the first car makers to bring its HD map technology into our cars, starting with the recently unveiled Volvo EX90 and Polestar 3.



'This animation is intended to illustrate Volvo Cars' development efforts of Pilot Assist, its assisted-driving feature, with support from Google's HD map as well as input from its advanced exterior sensor set made up of a lidar, five radars and eight cameras. It is not illustrative nor indicative of Google's HD map's exact capabilities or applications.'

By integrating Google's HD map, we will be able to bring together data from our industry-leading sensor set in the Volvo EX90 with Google's precise lane-level and localisation data to facilitate assisted-driving features such as lane change assistance and Volvo Cars' Pilot Assist technology, as well as future autonomous driving functionality.

"The addition of Google HD Maps in our future car line-up marks an expansion of our strategic collaboration with Google, reflecting our commitment to work with technology leaders," says COO and Deputy CEO, Javier Varela. "Implementing Google HD Maps in our upcoming cars will help

us offer our drivers a more enjoyable driving experience and in future contribute to the introduction of safe autonomous driving.”

“Building on our long history of mapping the world, Google’s new HD map is designed specifically for automakers and provides comprehensive lane-level and localisation data that is crucial to powering the next generation of assisted and autonomous driving systems,” says Jorgen Behrens, VP and General Manager of Geo Automotive, Google. “We’re excited to continue partnering with leading automakers such as Volvo Cars to improve the safety and comfort of drivers everywhere.”

This road information combined with the data from the Volvo EX90’s lidar and other sensors will be processed through the car’s core computer system powered by NVIDIA DRIVE AI Platforms Xavier and Orin.

By combining data from Google’s HD map with information collected from our exterior sensors, including a lidar and software developed by safety software company Zenseact, we aim to create a more predictable, safe and comfortable drive.

In the future, Google’s HD map will also support the introduction of our autonomous driving technology in combination with our sensor set consisting of a roof-integrated lidar, radars, cameras and ultrasonic sensors, to further improve the car’s understanding of its environment.

“Zenseact is proud to work alongside Volvo Cars and Google on the implementation of this game-changing technology for assisted and, later on, autonomous driving,” says Ödgård Andersson, Chief Executive Officer of Zenseact. “It will play an important role in our journey towards zero collisions.”

The small print

- Google’s HD map will be available in cars with Pilot Assist.
- Volvo Cars’ Pilot Assist offer may vary depending on the market, model year and car model.
- Google, Google Maps are trademarks of Google LLC.

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Volvo Cars in 2021

Volvo Car Group recorded an operating profit of 20.3 BSEK. Revenue in 2021 amounted to 282.0 BSEK, while global sales reached 698,700 cars.

About Volvo Car Group

Volvo Cars was founded in 1927. Today, it is one of the most well-known and respected car brands in the world with sales to customers in more than 100 countries. Volvo Cars is listed on the Nasdaq Stockholm exchange, where it is traded under the ticker “VOLCAR B”.

Volvo Cars aims to provide customers with the Freedom to Move in a personal, sustainable and safe way. This is reflected in its ambition to become a fully electric car maker by 2030 and in its commitment to an ongoing reduction of its carbon footprint, with the ambition to be a climate-neutral company by 2040.

As of December 2021, Volvo Cars employed approximately 41,000 full-time employees. Volvo Cars’ head office, product development, marketing and administration functions are mainly located in Gothenburg, Sweden. Volvo Cars’ production plants are located in Gothenburg, Ghent (Belgium), South Carolina (US), Chengdu, Daqing and Taizhou (China). The company also has R&D and design centres in Gothenburg, Camarillo (US) and Shanghai (China).

For further information, please contact:

Volvo Cars Media Relations
+46 31-59 65 25
media@volvocars.com

Volvo Cars Investor Relations
+46 31-793 94 00

investors@volvocars.com

About Zenseact

We're a software company dedicated to revolutionising car safety. By designing the complete software stack for autonomous driving and advanced driver-assistance systems, from sensing to actuation, we're fighting to end car accidents and make roads safe for everyone. Zenseact was founded by Volvo Cars, and the teams of more than 500 developers and engineers are based in Gothenburg, Sweden, and Shanghai, China.

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