



Media information
14.02.2023

BMW and Valeo engage in a strategic cooperation to co-develop next-generation Level 4 automated parking experience.

Munich/Paris. BMW Group and Valeo are taking their long-existing relationship to the next level with a new partnership. After the major announcement of their collaboration for ADAS domain controller, sensors and software for parking and maneuvering for BMW's upcoming platform generation "Neue Klasse"¹, the BMW Group and Valeo announced their cooperation for the co-development of fully automated parking technologies up to Level 4.²

In January both companies signed an agreement for a strategic cooperation, which will focus on joint development of next-generation high-end parking user experience for customers on private grounds and parking facilities. Ranging from Automated Maneuver Assistance to Level 4 Automated Valet Parking, all functions will be based on technology and sensors in the car. Infrastructure based services will also be jointly developed to experience fully automated parking and charging in enabled public parking facilities and sites.

The software functions are based on the current automated parking software stack first launched with the BMW iX in 2021. In the next generation it will be further extended by a powerful computing platform hosting the jointly developed algorithms.

"This joint development is an important milestone for the BMW Group with regard to our next generation of automated driving and parking. With scalable L4 parking experiences, we confirm and strengthen our leading position in this domain. To create truly amazing end user functions, state-of-the-art software and hardware is needed in all aspects of the digital value chain, as well as the power of a fleet data ecosystem. The BMW Group is excited to further extend its long-lasting partnership with Valeo with this strategic cooperation. We aim to continue delivering world-class driving and parking experiences to our customers," said Nicolai Martin, Senior Vice President Driving Experience, BMW Group.

"We are proud of the long-term cooperation between the BMW Group and Valeo. The co-development and deployment of Automated Parking solutions will permit Level 4 driverless operation in BMW's upcoming series production vehicles," said Marc Vrecko, President of Valeo's Comfort and Driving Assistance Systems Business Group. "Building on already commercialized stack components, this cooperation will leverage our know-how and technologies, such as advanced AI-based computer vision algorithms, and enable us to extend our portfolio to L4 functions as well as into cloud services. Other automakers will be able to join this platform, with BMW once again setting the standard for the most intuitive and pleasant user experience that its customers rightly expect."



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What is Automated Valet Parking?

Automated Valet Parking (AVP) offers drivers and passengers a fully automated and driverless parking experience. At a drop-off zone the driver leaves the car and the vehicle takes over tasks such as autonomously finding a parking spot, the necessary maneuvers for parking in and out and can also drive back to a pick-up zone to return the vehicle back to the driver. To optimize use of the parking time, additional services like fully automated charging or fully automated washing can be deployed. Such functionalities offer real customers benefits in terms of comfort and safety.

According to the draft of an upcoming ISO standard, Automated Valet Parking solutions will be clustered in two main categories, Type 1 and Type 2 systems. For a Type 1 system, the necessary technologies (incl. all sensors, computing units and algorithms) run on the vehicle while for a Type 2 system, the required technologies (incl. sensors and the AVP management system) are installed in the relevant infrastructure, e.g. parking facility, and the vehicle is controlled by the infrastructure.

The partnership supports both, AVP Type 1 and Type 2, and will strive for the most advanced solutions for next generation parking experiences up to Level 4 according to market and customer requirements.

¹"Neue Klasse": the next generation modular platform for the BMW vehicles.

²Level 4: fully automated driving/parking, with no supervision needed by the driver.



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The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises over 30 production sites worldwide; the company has a global sales network in more than 140 countries.

In 2022, the BMW Group sold nearly 2.4 million passenger vehicles and more than 202,000 motorcycles worldwide. The profit before tax in the financial year 2021 was € 16.1 billion on revenues amounting to € 111.2 billion. As of 31 December 2021, the BMW Group had a workforce of 118,909 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company set the course for the future at an early stage and consistently makes sustainability and efficient resource management central to its strategic direction, from the supply chain through production to the end of the use phase of all products.

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Valeo

As a technology company and partner to all automakers and new mobility players, Valeo is innovating to make mobility cleaner, safer and smarter. Valeo enjoys technological and industrial leadership in electrification, driving assistance systems, reinvention of the interior experience and lighting everywhere. These four areas are vital to the transformation of mobility and will drive the Group's growth in the coming years. Valeo is listed on the Paris Stock Exchange. Valeo in figures: In 2021, the Group generated sales of 17.3 billion euros and invested 12% of sales in R&D. At December 31, 2021, Valeo had 183 plants, 21 research centers, 44 development centers and 18 distribution platforms, and employed 103,300 people in 29 countries worldwide.

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