

German industry proposes new development standard for safe automated driving

22-Nov-2023 10:57 GMT

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Supply Chain and Technology, Automotive

The VVM model provides a verification framework ensuring safety and reliability that is crucial for automated driving development

The German automotive industry has developed a new methodology for verifying the safety of automated driving systems in urban environments, following a four-year joint project by 21 partners. The Verification and Validation Methods (VVM) project aims to provide a consistent approach for the industry, closing a methodological gap and securing Germany's pioneering role in international competition, according to a press release on Nov. 21.



Source: Getty Images

The project's scenario-based safety verification approach could help set global standards once approved by authorities. The VVM methodology includes a suite of procedures, methods and tools for verifying the safety of automated vehicles, with a focus on urban traffic. The project's coordinator, Roland Galbas from Bosch, highlights the challenge of coping with traffic in an urban environment, which requires comprehensive structures and processes to ensure safe operation and maneuvering verification.

The project's co-coordinator, Mark Schiementz from BMW, emphasized the importance of safety and reliability in the development of automated driving functions, and how the VVM model provides a basis for verifying safety.

The project's results will be discussed at a final presentation in Stuttgart, Germany, with the aim of delivering the world's first consistent methodical approach to safety for automated driving in an urban environment.

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