

Media Information

May 28, 2026

BMW Group and Mistral AI advance AI in crash simulation

+++ Use of industrial datasets for AI model training +++ AI improves crash simulation analysis +++ Combining engineering expertise and advanced AI capabilities +++

Munich / Paris. The BMW Group and Mistral AI are partnering to advance the use of AI in crash simulation. The aim is to improve quality, accuracy and speed in complex engineering tasks. The collaboration marks a first step towards scaling domain-specific AI across further areas of vehicle development and the BMW Group value chain.

“For the BMW Group, the use of industrial data is a key factor in translating artificial intelligence into value creation,” said Dr. Franz Decker, CIO and Senior Vice President of the BMW Group. “By combining our engineering datasets with Mistral AI’s model training capabilities, we are building specialized AI which supports complex development tasks.”

Complexity and Data Volume in Crash Simulation

The scale and complexity of crash simulation at the BMW Group underline the need for domain-specific AI. Each week, the company runs thousands of virtual crash simulations, generating vast amounts of engineering data. Over time, this has resulted in a historical dataset of over one petabyte of crash simulation data. It provides highly detailed insights into vehicle structures and material behaviour, forming a unique foundation for training an industrial AI model.

“As Industrial AI becomes the new frontier for AI, we are proud to partner with the BMW Group” said Marjorie Janiewicz, Chief Revenue Officer of Mistral AI. “This collaboration shows how industry specific AI models can help solve complex engineering challenges such as crash simulation.”

Large Industry Model as technical foundation

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To scale this approach, the BMW Group is focusing on so-called Large Industry Models (LIM). These are AI systems trained on industry specific engineering and simulation data from vehicle development and safety testing. Unlike general-purpose AI systems, LIMs embed domain-specific knowledge directly into the AI model. This requires not only industrial data, but also deep domain expertise and technical environments that allow AI systems to learn directly from BMW's development processes.

The partnership highlights the importance of industrial data for the next phase of data-driven value creation and strengthens the BMW Group's AI and innovation ecosystem.

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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 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 2025, the BMW Group sold 2.46 million passenger vehicles and more than 202,500 motorcycles worldwide. The profit before tax in the financial year 2025 was € 10.2 billion on revenues amounting to € 133,5 billion. As of 31 December 2025, the BMW Group had a workforce of 154,540 employees.



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The economic success of the BMW Group has always been based on long-term thinking and responsible action. Sustainability is a key element of the BMW Group's corporate strategy and covers all products – from the supply chain through production to the end of their useful life.

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