

Ansys and BMW are creating what they call the industry's first holistic simulation tool chain for developing autonomous vehicle technologies. It will enable highly automated and autonomous driving, with the first vehicle launch expected in just two years. The BMW Group are leveraging what Ansys call their "pervasive engineering" simulation solutions and experience to speed up the development of a safety-focused solution for the validation of AD systems.



The multi-year agreement drives the development of the BMW Group's Level-3 offering and Level 4-5 technology, delivering high automation for the highly anticipated BMW iNEXT, expected to launch in 2021. The new automated simulation tool chain will make efficient use of BMW's large amount of sensor data through intelligent data analytics and the creation of scenarios according to statistical relevance and AD system sensitivity. The scenarios will include usual driving situations and corner cases to ensure maximum test coverage. Based on these scenarios, the tool chain will perform rigorous safety assessments of the AD systems in a high-performance virtual environment. Ansys and BMW will support its adaptability and openness regarding relevant interfaces and validation approaches to accommodate and foster safety initiatives.