Since mid-2011, BMW Group test vehicles have been undergoing public road tests on the A9 motorway between Munich and Nuremberg—with no driver intervention.

BMW Group, Intel, and Mobileye recently partnered on a fleet of 40 autonomous BMW 7 Series* prototype vehicles to demonstrate the significant advancements made by the three companies toward delivering fully autonomous driving.

The vehicles bring together Intel® high-performance computing elements, Mobileye's automotive-grade computer vision technology, and BMW’s industry-leading research into highly automated driving functions. These jointly developed prototypes are helping to pave the way for the first highly automated production vehicle, the BMW iNext*, to be launched in 2021.

**DEMO DESCRIPTION**

The demo invites attendees to see one of the first of BMW Series 7 collaboration prototypes in person and explore this scalable, car-to-cloud platform designed to perform with consistent, predictable behavior and the highest level of safety.

**KEY POINTS**

- Highly automated driving is only possible through the perfect interaction of every component and system
- In order to develop self-driving production vehicles, a total of approximately 240–250 million test kilometers need to be completed—around 10 percent of it on the road
- Data from numerous sensors feeds a 360-degree model of the vehicle's surroundings, which sophisticated driving strategy software uses to compute the necessary driving maneuvers