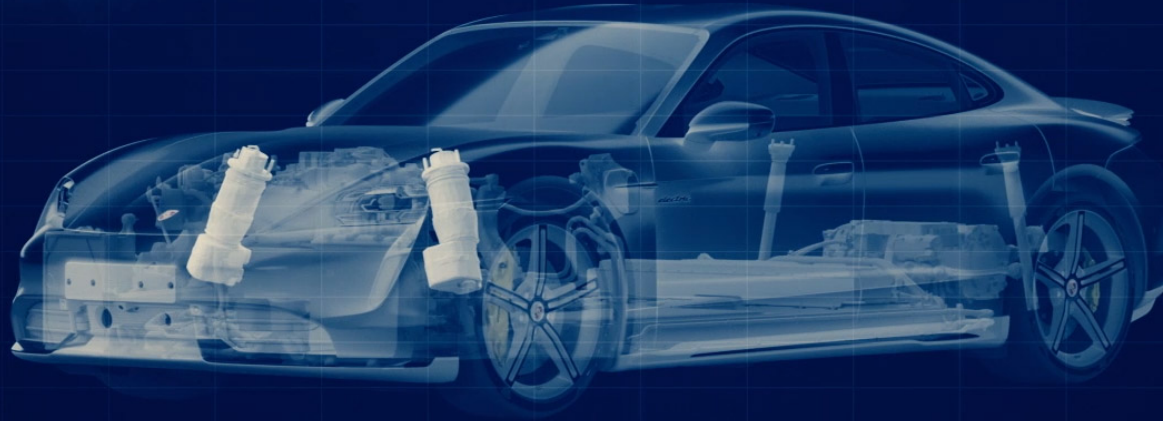


Predictive Maintenance VME



Road Condition Map





Basis for these use cases is the Big Loop and Machine Learning algorithms in order to be able to adapt data quickly and at an early stage.

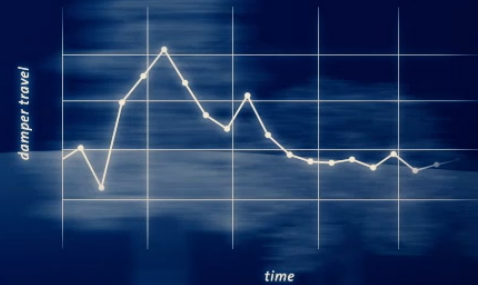
The necessary sensor technology is already installed in all vehicles today, in order to improve the driving behavior.

Through a constant data transmission, the driving experience for the customer can be optimized continuously.

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damper travel





The technology can be used for all chassis components.

The continuous processing of all sensor signals supports the customer with maintenance decisions. Damage can be detected at an early stage, thus avoiding consequential damage.

With the Digital Chassis Twin, signs of wear can be predicted and service intervals personalized. This increases planning reliability for both, the workshop and the customer.

The Predictive Maintenance technology enables a digital vehicle file that could be used to determine the residual value.

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estimated friction





Wetness detection can already be ordered in the current 911 with additional sensors. In the future, the grip level will also be displayed without additional sensors needed.

The additional information about the road surface informs the customer in advance about potential danger spots.

The information about the road surface is elementary for highly automated driving functions.

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Summary



In the future, the Digital Chassis Twin will bundle the status of all chassis components of the customer fleet in a central intelligence in the backend.

By bundling the processed sensor data, conclusions can be drawn that are beneficial for each vehicle and for each customer.

The transfer of these development activities to CARIAD enable access to larger amounts of data and faster implementation of innovation.

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