MESAS – Structural assessment of pavements on network level

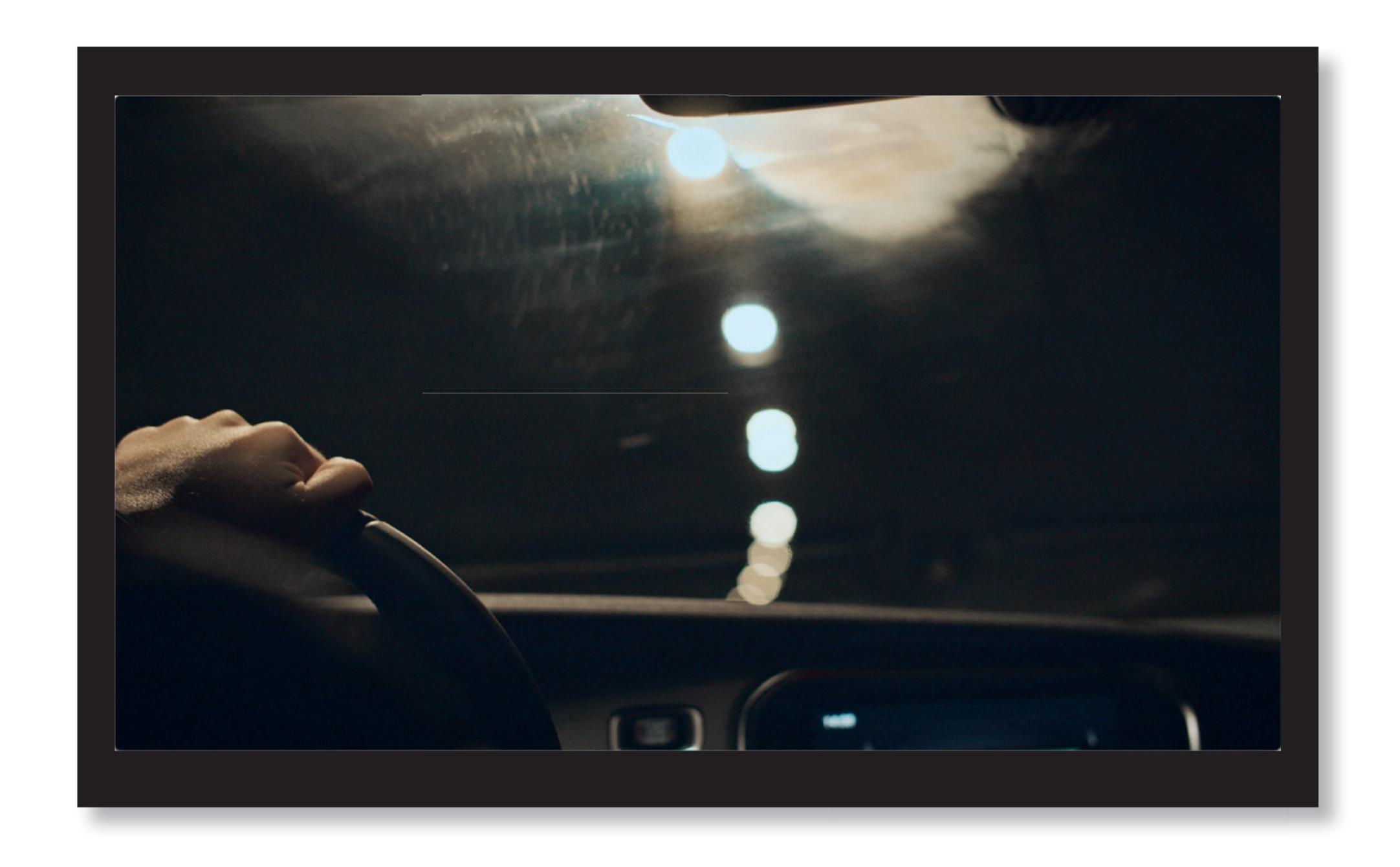
Based on a fast-moving bearing-capacity measuring system, the Traffic Speed Deflectometer (TSD) and added with the latest technology for condition assessment, the innovative non-destructive measurement system MESAS was developed.

In the future, MESAS will make a significant contribution to structural condition assessment and pavement management at network level, and thus support the data basis created by the established pavement condition and monitoring system ZEB. The vehicle, designed for research and development, is equipped with the following subsystems, among others:

- bearing capacity measurement according to the TSD method
- ground penetration radar system for subsurface inventory
- laser sensors for recording the evenness and surface image
- front cameras for environment detection
- GPS for high-precision georeferencing
- Acquisition and data management software designed for the network level

Goals

- Development of procedures and methods for the structural assessment of pavements
- Supplementing maintenance planning with features on the internal condition of roads
- Interlinking and evaluation of data from the individual measurement systems
- Development and application of Big Data analyses





MESAS – Multifunctional assessment tool for the structural evaluation and the design of pavements



Further information

