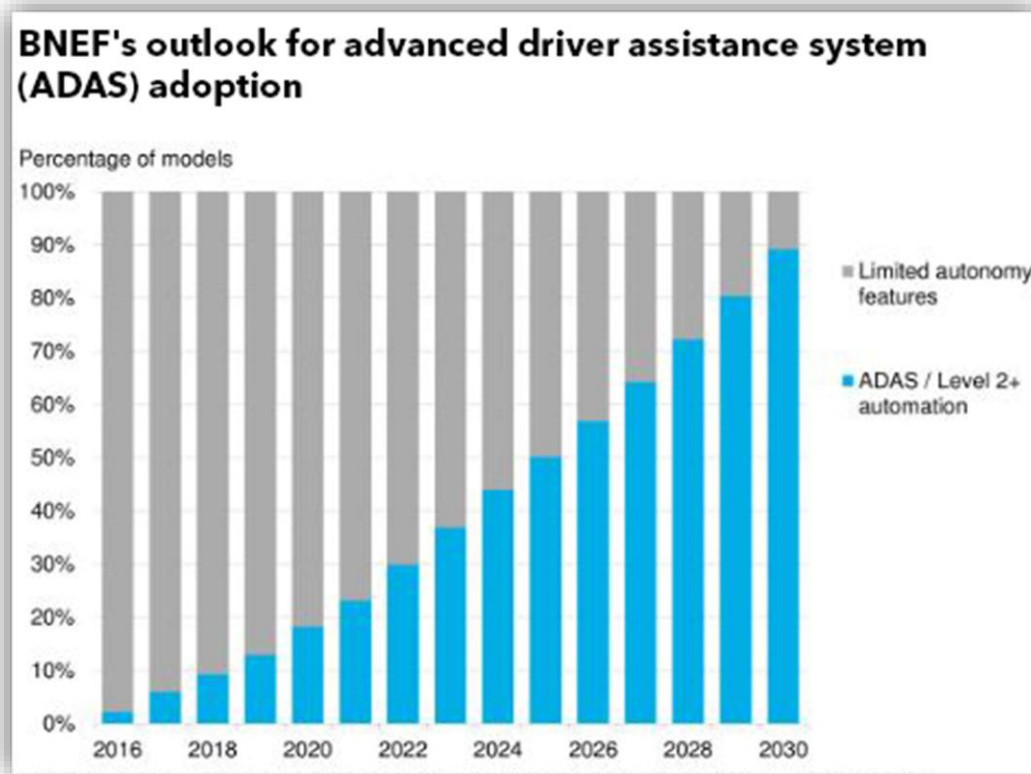


Standardization for Vehicle Occupant Monitoring Systems (VOMS)

Problem Statement and Key Challenges



- Modern vehicles increasingly rely on Driver Monitoring Systems (DMS).
- DMS addresses critical safety challenges such as distraction, fatigue, and other impairments.
- Vehicle Occupant Monitoring systems (VOMS) combine DMS with occupant monitoring for comprehensive safety.
- EU mandates: all newly sold cars must include DMS.

Root causes of deaths on roads

20% caused by fatigue

70% involved observable distraction

- Current DMS solutions lack consistent standards for performance evaluation
- Challenges include diverse vehicle designs and driver demographics

The need for standardization

- Simplify integration through unified data models
- Enhance safety by ensuring that VOMS solutions detect driver impairments effectively
- Enhance driver comfort
- Enable driver identification
- Enable detection/reduction of motion sickness
- Reduce costs and development times for stakeholders
- Enable easy comparison of various VOMS products for OEMs and Tier1s