MAHLE Powertrain MAApps

What are the data challenges facing engineers?

- **Complex data**
  - Increasing volumes of test data
  - Data from multiple sources and multiple formats
- **Resource constraints**
  - Reducing project timescales and limited resource availability
- **Lack of standardisation between teams**
  - Individuals using ‘local’ uncontrolled tools

**MAHLE Applications**

- Fully configurable toolsets, developed by calibration specialists, to support key work packages:
  - Engine Functions
  - Transmission Functions
  - Diagnostics
  - Vehicle Functions
- Standardised and automated data processing and reporting
MAHLE Powertrain MApps

Benefits

- Tailored data processing & reporting tools for key calibration tasks
  - Results are easily understood by all team members
- Efficient resource utilisation
  - Automation of data processing frees engineering resources
- Integrates into all phases of a calibration program
  - Early identification of concerns improves product quality
  - Evidence presented in a consistent & standardised format to support gateway reviews

Capabilities

- Robustness project
  - Manage data processing, analysis & reporting from any fleet data
  - Give regular feedback on calibration robustness throughout a product's development
  - Support concern resolution
- Report evidence to support AES / BES / AECD documentation
  - Help support decisions for new requirements / features
- Develop bespoke toolsets to support development / calibration activities

Summary

MAHLE Powertrain's MApps is a powerful toolset for data processing that is adaptable for multiple activities. This in-house developed, bespoke software provides a reliable method for processing and interrogating large amounts of data. Tailored reports are generated to allow easy identification of issues and concerns to aid the development process.