

## EU Vehicle Emission Testing Scheme Lunch Briefing 1<sup>st</sup> June 2016, European Parliament

**Technical Service - Presentations of status,  
experiences and view on emission measurements**

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# Emission Measurements and Type Approval in Future



In order to raise the efficiency of the regulatory framework we point out:

- Type approval and emission measurements must be with fair competition and with equal conditions throughout Europe
- Emission regulations will get more complex in future: new methods like RDE, new test cycle like WLTP, new calculation tools like COM2PAS will need increased resources (test equipment / experts) at all areas: competence is key
- Independent Emission Competence at the Technical Service can be supported by more emission testing in the labs of Technical service.

# Emission Testing on Chassis Dyno



- NEDC and WLTP tests: should be carried out 100% in labs of Technical Service (minimum 50%; 50% as witness tests at the manufacturer)
- CO<sub>2</sub>-Emissions: CO2MPAS calculation should be done by Technical Service
- Coast Down Test should be done by Technical Service (at least 100% witness test )

# Correlation Test PEMS vs. Chassis Dyno



- From Technical Service point of view should be mandatory
- Should be carried out 100% by Technical Service
- Is still necessary to get respect for RDE emission result
- Also necessary to prove out PEMS setup before RDE street test



# Real Driving Emissions RDE



- From Technical Service view: this is the emission measurement method of future
- Broader boundary conditions than any test cycle: e.g.: temperature, road gradient, humidity, vehicle weight...
- Should be carried out 100% by Technical Service (no witness)
- Choice of route and driving behaviour by Technical Service

# TÜV Hessen / Automotive



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Discussions are welcome  
Thank you for your attention

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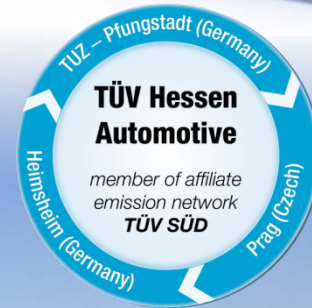
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## Automotive Test Center (ATC)

in Germany for Europe:  
Technical Service for Type Approval



-  Chassis Dynamometer advanced
-  Heavy Duty Engine Test Bed
-  Mobile/Portable Emission Measurement



# TÜV Hessen Specialist for all RDE PEMS Applications

