

EGEA Working Group 6 Meeting

7th July 2010, Frankfurt



Report on meeting with DG Move

- 2nd June 2010, Brussels -



Directive 2009/40/EC: current status

New testing items on modern electronic safety systems (Not comfort systems!)

- First step based on check of MIL only
- Member States may use scan tools (~ field test)

- Anti-lock Braking System (ABS)
- Electronic Brake System (EBS)
- Electronic Power Steering (EPS)
- Electronic Stability Control (ESC)
- Safety Belt Load Limiter
- Safety Belt pre-tensioner
- Airbag
- SRS Systems

Directive 2009/40/EC: new items

New testing items on modern electronic safety systems:

- **Anti-lock Braking System (ABS) – EGEA focus**
- **Electronic Brake System (EBS)**
- **Electronic Power Steering (EPS)**
- **Electronic Stability Control (ESC) – EGEA focus**
- **Safety Belt Load Limiter**
- **Safety Belt pre-tensioner**
- **Airbag**
- **SRS Systems**

ABS and ESC

Method:

**Combination of dynamic and
diagnostic test methods**

ABS: EGEA Proposal

ABS



- **AVAILABILITY CHECK**
Identification of the system components and its variants
- **SELF DIAGNOSIS STATUS CHECK**
Polling the status of system lamp of the system control unit
- **FUNCTIONALITY TEST BY ACTIVATING THE ACTUATORS**
Pressure build-up in the brake circuits
- **EFFICIENCY TESTS THROUGH PLAUSABILITY OF ACTUAL SIGNALS**
Sensors driving dynamics (in discussion)
Sensors capture of actual state brake system
Sensors capture of driver activities
Buttons/switches


ESC: EGEA Proposal

ESC

- **AVAILABILITY CHECK**
Identification of the system components and its variants
- **SELF DIAGNOSIS STATUS CHECK**
Polling the status of system lamp of the system control unit
- **FUNCTIONALITY TEST BY ACTIVATING THE ACTUATORS**
Pressure build-up in the brake circuits
- **EFFICIENCY TESTS THROUGH PLAUSABILITY OF ACTUAL SIGNALS**
Sensors driving dynamics (in discussion)
Signal driving dynamic
Sensors capture of actual state brake system
Sensors capture of tyre pressure
Sensors capture of driver activities
Buttons/switches



Suspension testing: EGEA Recommendation

- ... to improve the Suspension Test included in Directive 2009/40/EC by basing it on the Lehr's dumping coefficient principle
 - EGEA is currently working on validation of the different measurement principles.
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Suspension testing: EC questions

- ➔ **Any proposed legal limit values need a comprehensive technical justification by the proposer**
- ➔ **Two-step approach for damping ratio (ISO standard?)**

Efficiency based testing of electronic systems: ABS and ESC

How to find a common technical basis for testing (methods and limit values)?



Suspension Testing

Result of testing activities at CERAM



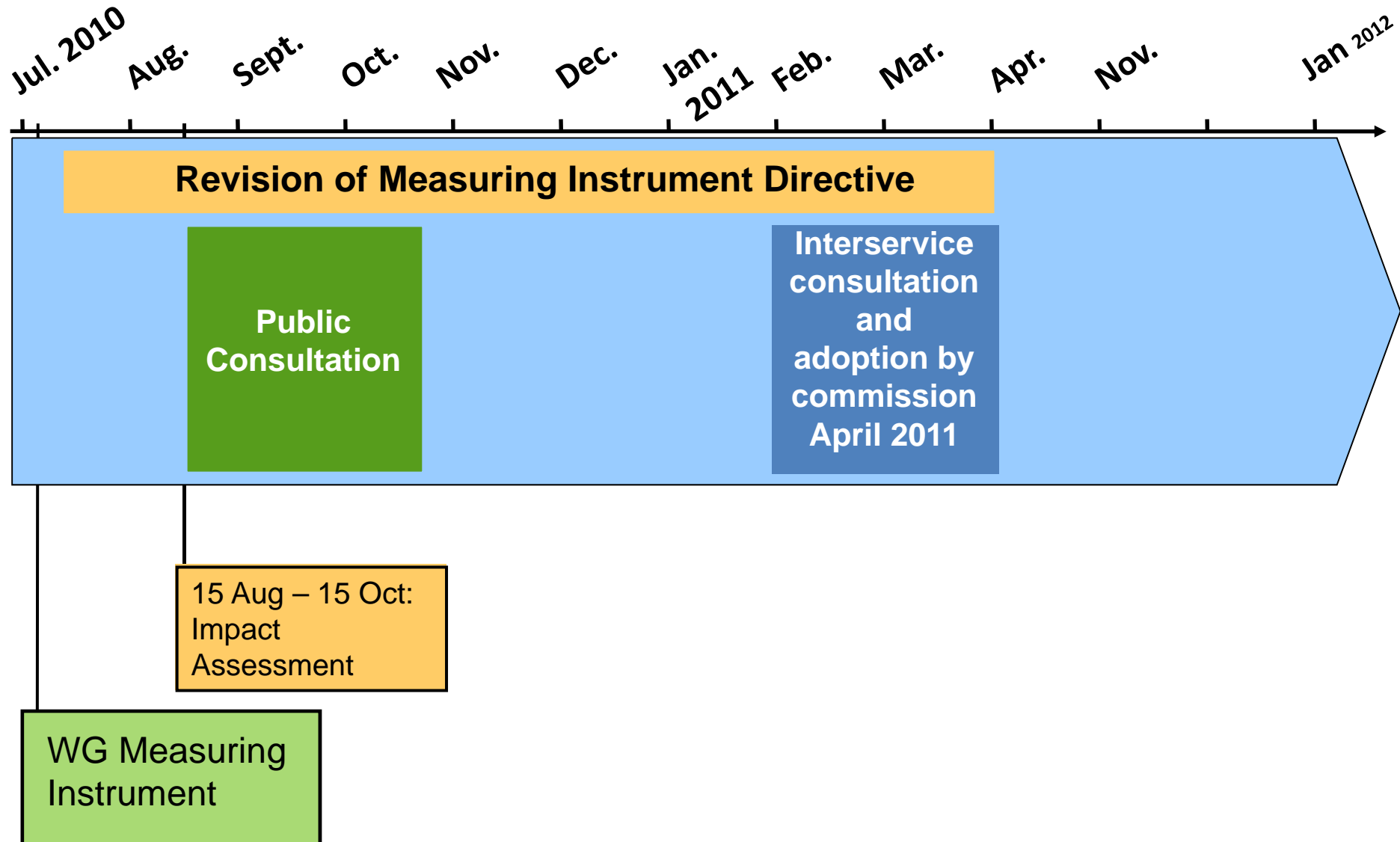
Exchange of information on disparate tests requirements based on national legislations deviating from Directive 2009/40/EC



Revision of Measuring Instrument Directive (MID) 2004/22/EC



Revision of MID 2004/22/EC: Timeline





Thank you!

