



Federal Ministry
of Transport, Building
and Urban Development

UN-Regulation Occupant Protection in the event of a Frontal Impact

**14th Meeting IG Frontal Impact
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Content

- Aim of Frontal Impact Regulation
- Future Steps



Aim of Frontal Impact Regulation

- Address self protection
- Address occupant loadings
- Address geometric compatibility



Future steps (1)

- Phase 1 overview
(short-term, till 2014):
 - Introduction of full-width test
 - Introduction of criteria or procedure for geometric alignment of front structures
 - Introduction of new thorax injury prediction tools if appropriate
 - Introduction of 5th female dummy in full-width test if appropriate



Future steps (2)

- Step 2 overview
(long-term, till 2018):
 - Development of a GTR Frontal Impact
 - Introduction of new dummy family (THOR 50th and THOR 5th)
 - Introduction of new dummy performance criteria
 - Review of offset test procedure



Future steps (3)

- Phase 1 details:
(short-term, till 2014):
 - Introduction of full-width test
 - test procedure
 - speed
 - barrierbased on the outcome of the EU-project FIMCAR
 - Introduction of criteria or procedure for geometric alignment of front structures
 - based on full-width test load cell wall measurements
or
 - based on alternative test procedure (e.g. pendulum test)



Future steps (4)

- Phase 1 details:
(short-term, till 2014):
 - Introduction of new thorax injury prediction tools if appropriate
 - Positive validation of tools is a prerequisite for the introduction
 - Introduction of 5th female dummy in full-width test if appropriate
 - Positive impact assessment is a prerequisite



Future steps (5)

- Step 2 details
(long-term, till 2018):
 - Development of a GTR Frontal Impact
 - Harmonisation of test procedures on frontal impact
 - Harmonisation of tools and performance criteria
 - Introduction of new dummy family (THOR 5th and THOR 50th)
 - THOR 50th is currently updated
 - THOR 5th development about to be started
 - Introduction of new dummy performance criteria
 - Review of offset test procedure