TRL contract with EC: Provision of information for the development of frontal impact legislation:
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Objectives, Client and Timescales

Objective

- Gather and evaluate all available information related to a potential update of Regulation 94, in particular that relevant to the review currently being performed by a GRSP informal working group

Client

- DG Enterprise and Industry, European Commission

Timescales

- Sept 2008 to April 2009
Potential options to improve legislation

- **Main Options**
  - 1. No change.
  - 2. Replace the current R94 ODB test with a Progressive Deformable Barrier (PDB) test
  - 3. Add a full width high deceleration test to the current R94 ODB test procedure
    - Rigid or deformable barrier?
  - 4. Combination of options 2 and 3
Potential options to improve legislation

- Supplementary options
  - Dummy related
    - Incorporate the THOR-Lx, and possibly the THOR upper leg, as a retro-fit to the Hybrid III dummy
  - Other
    - Extend the scope of the Directive to include N1 vehicles, in particular those less than 2.5 tonnes, and all M1 vehicles
    - Add a steering wheel movement lateral displacement limit of 100 mm to current vertical and horizontal limits
    - Add an appropriate footwell intrusion criterion and associated limit
    - Assess rear seated positions
Considerations for evaluation of potential options

- Whether the option will address the needs identified in the accident studies
- Potential for unintended consequences
- Potential for further development to include measures to assess and control compatibility
- Relationship with present international requirements
- Issues that require further investigation to ensure suitability for regulatory application
- Cost-benefit