UNECE GRSP IWG Equitable Occupant Protection (EqOP)
Task Force 2 – Rear-end impact

Draft minutes of the seventh meeting.
On-line meeting, September 03, 2025.
30 participants.

Adoption of the agenda
Adopted, with a change of item order and an additional presentation.

Approval the minutes from last meeting
Approved, with linguistic changes to the discussion on suboptimization.

Presentations with subject discussions

1. Head restraint geometry and seat interaction (Chalmers)
   Whiplash associated disorder risk is higher for the female population. Seat testing should be improved to reflect real-world performance. Whiplash protection performance should be evaluated dynamically with both male and female models.
2. Update on the parametric study of FE seats in rear impact (UVA/IIHS)
   No single model parameter improves or worsens all dummy output metrics at the same time. Occupant variation shows important differences in certain dummy output metrics, but not all of them. Seat stiffness (both foam and frame) seems to play an important role in multiple dummy output metrics. The seat design parameters that are important for dummy output metrics differ by occupant type (BioRID vs EvaRID).
3. Presentation on related topics (UTAC)
   The strengths and limitations of both static and dynamic testing approaches should be re-evaluated using recent data. A balanced approach may be needed to ensure both cost-efficiency and realistic injury risk assessment.

Continue topic discussions in the next meetings

1. The group agreed to focus on the complete seating system—evaluating the combined performance of the seatback and headrest—either by complementing static testing with a quasi-static procedure or by shifting toward more dynamic testing.
2. We should not only consider the backward movement of the head/neck relative to the torso during the rear-end impact but should also consider the inverse.
3. We should start planning the next in-person workshop.
4. Note that we postponed the issues of how to avoid wrong adjustment and how to avoid suboptimization.

Next meeting
Date TBD through poll.