

Submitted by the experts from IWG EqOP

Informal document GRSP-73-37-Rev.1
(73rd GRSP, 15 – 19 May 2023
agenda item 20)

Equitable Occupant Protection - EqOP

Status report of the subject informal working group of GRSP

May 12, 2023

WP.29

- GRSP agreed to transform the Ad-hoc group DEOP into an Informal Working Group Equitable Occupant Protection
- GRSP chair sought endorsement of WP.29 during its March session through the oral GRSP report
- IWG expected to be formally approved in the WP.29 June session
- IWG has had a meeting in Yokohama on April 6 in conjunction with the ESV Conference
- IWG will have a follow-up meeting on May 15 in conjunction with the 73rd session of GRSP at UNOG

Definitions

- Acronym for Equitable Occupant Protection
 - EqOP
- Meaning of “Equitable”
 - “dealing fairly and equally with all concerned” (Merriam-Webster)
- ”All concerned”, shall be with respect to sex, age, weight, height, and body shape (weight distribution), i.e., a diverse adult population

Secretariat

- Chairperson: Ms Pernilla Bremer (Swedish Transport Agency, Sweden)
- Vice-chairperson: Ms Corina Klug, PhD (TU Graz, Austria)
- Secretary: Mr Torbjörn Andersson (CLEPA, AUTOLIV)
- Secretary: Mr Philipp Wernicke (OICA, BMW)

Long-term goals

- Equitable and enhanced protection of a diverse population
 - Passenger car occupants given priority
- Robust, inclusive, and effective, regulatory solutions
 - For protecting a diverse population in an equitable way

IWG EqOP Workplan – Reporting format

- Meeting minutes
- Presentations
- Task force reports / presentations
- Discussion paper / master document
- Worktable
- UN wiki pages

IWG EqOP Workplan – General

Task 1 - Diversity Issues

Identify and present a map of issues which should be addressed by regulatory upgrades directly vs gaps where more research is needed regarding equitable protection by *December 2023*

Task 2 - Regulatory Changes

Recommendation on the usage of existing ATDs, in order to benefit the female population, by *December 2023*

Full report on attaining equity in crash safety regulations by *May 2025*

December 2027

Task 3 - Virtual Crash Testing

Status Report *December 2023*

Biannual Status Report

Assess Virtual Crash Testing as method in regulations to improve equity in occupant protection by *December 2027*

Task 4 - Regulatory Shortcomings

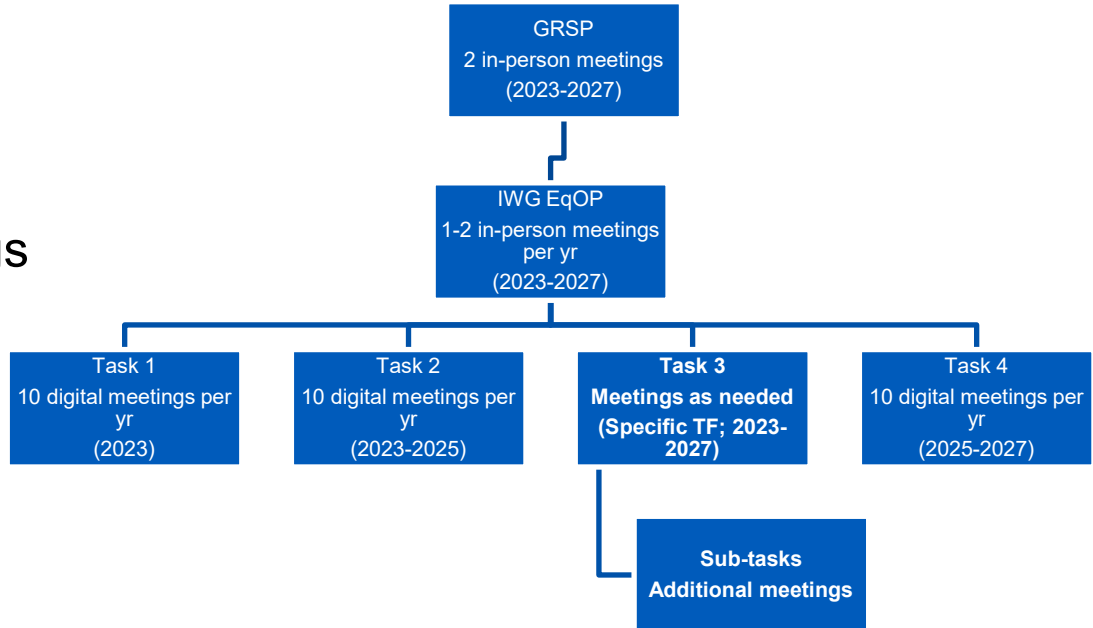
Status Report *December 2023*

Biannual Status Report

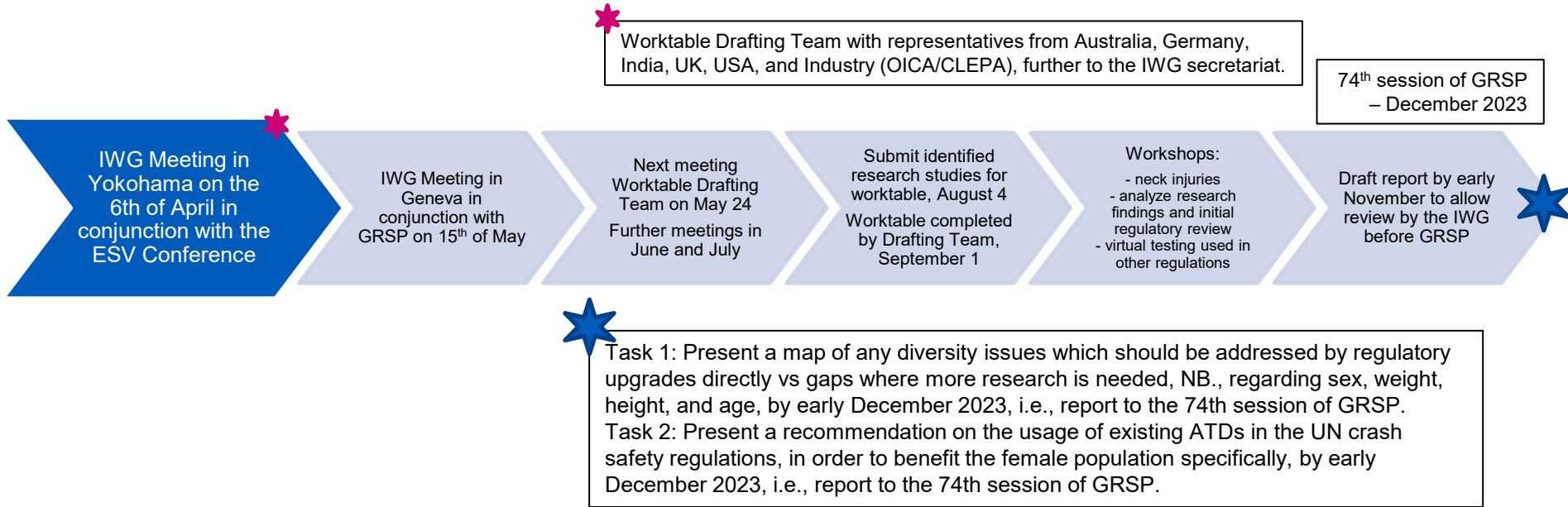
Identify shortcomings of existing regulations that hinders the protection of a diverse population by *December 2027*

IWG EqOP Workplan – Meetings

- GRSP
 - 2 per year
 - May and December
 - In-person meetings
- IWG in-person meetings
 - 2 per year
 - April/May and October/November
- Task related meetings
 - Monthly (or as needed)
 - Remote dial-in



IWG EqOP Workplan – 2023



IWG EqOP Workplan – Worktable

Worktable Drafting Team

- Meeting in Yokohama: Should the worktable be a controlled document regarding versions? We discussed different alternatives. We concluded that we lose control quickly if we let anyone of us update the worktable without any management. We decided to start the work in a smaller group and the chair asked for volunteers. We should have at least one representative per region in addition to the secretariat.
- The Worktable Drafting Team has been established.
 - First meeting on May 2
 - Next meeting on May 24
 - Will consider all contributions
 - Deadline to complete the worktable
 - Updated worktable available on the UN Wiki (clean version with instructions)

Worktable (extract)

Body Region - AIS	Body Region more specific	Overall equity crash data findings (incl. older cars)	Equity crash data findings in modern (2010+) cars			Frequency of the injury at which seating position in modern cars			How are current anthropomorphic test devices (ATD) used in UN regulations to evaluate this injury		
			driver	front passenger	rear seats	driver	front passenger	rear seats	R94 Driver and pass	R137 Driver	R137 Front passenger
General											
Head	Brain										
	Skull										
	Overall										

IWG EqOP Workplan – Ideas for joint workshops to accelerate the work

1. Possible solutions to improve assessment of Whiplash Associated Disorders (WAD) in regulations (5. + 6. Sept – BAST volunteered to host the workshop) → send email to Torbjorn (invitation will be sent out to those indicating interest)
2. **Analyze research findings and initial regulatory review** (23.Oct 13:00 - 25.Oct 13:00) → send email to Torbjorn to register (invitation will be sent out to whole IWG); prepare report for GRSP session in Dec.
3. Virtual testing used in other regulations (Nov; planned in Munich → send email to Philipp Wernicke to join TF VCT; (invitation will be sent out to those indicating interest)

