

Status Report of the Informal Working Group of Deployable Pedestrian Protection Systems (IWG-DPPS)

**63rd GRSP Session
14 – 18 MAY 2018**

Chair: Jin Seop Park, Republic of Korea
Secretary: Thomas Kinsky, OICA

Background

- **Background**

- Republic of Korea suggested the clarification of the test procedure for deployable pedestrian protection systems (56th session of GRSP, Dec. 2014)
- WP.29 and AC.3 endorsed the request for authorization to develop an amendment to GTR No.9 in Task Force (170th session of WP.29 and 48th session of AC3, Nov. 2016)
- TF-DPPS met during
7 - 8 Feb. 2017 in Paris, 28 - 29 Mar. 2017 in Paris,
7 Sep. 2017 in a web meeting, 21 - 23 Nov. 2017 in Berlin
- WP.29 and AC.3 endorsed the revision of the authorization to develop an amendment to GTR No.9, transforming the TF into an IWG (174th session of WP.29 and 52nd session of AC3, Mar. 2018)

Objective

- **Objective**

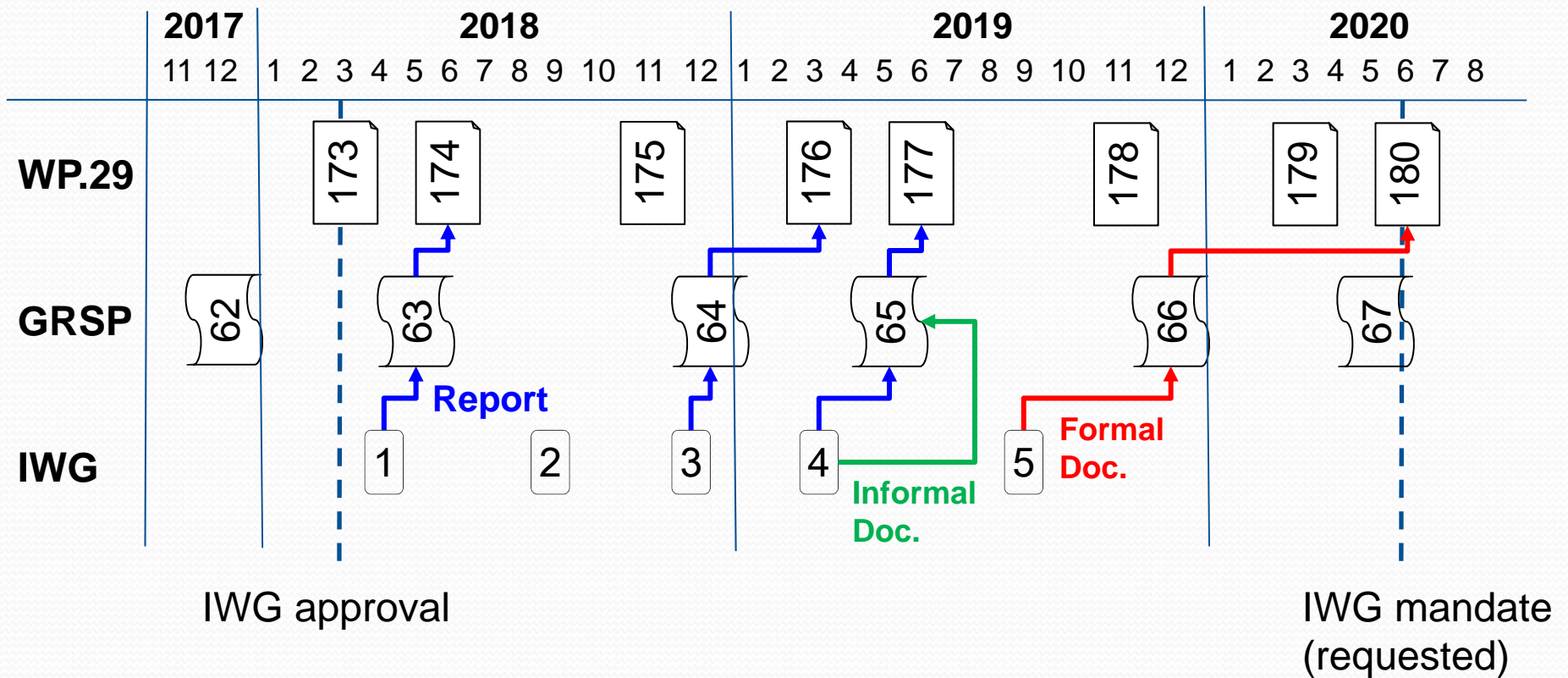
- To develop an amendment to GTR No.9 for a test procedure for deployable pedestrian protection systems, i.e. deployable bonnets or external airbags
- To develop new and more detailed requirements, so that the new procedure guarantees that deployable systems are correctly activated as designed to protect pedestrians and other vulnerable road users, and at least the same level of protection as non-deployable systems
- To consider the development of a corresponding proposal to amend the UN R 127 on Pedestrian Safety

Informal Working Group

- 1st IWG-DPPS meeting
 - Date: 18 – 20 Apr. 2018
 - Location: KIA Motors Office, Frankfurt, Germany
- Review and Draft Terms of Reference
 - Discussion: the objective and time schedule, etc.
 - Operation: Chair (Republic of Korea), Secretary (OICA)
- Contents
 - Drafting a milestone plan including specific tasks
 - Forming a sub-group to discuss controversial issues

Timeline

- Plan and Schedule



- Request for the extension of IWG-DPPS mandate to Jun. 2020

Milestone

- **Agreement on technical requirements: 2nd IWG-DPPS**
 - DPPS tasks (Pre-requisites, Verification, Headform Tests)
 - Generating performance requirements
 - Deciding on marking procedure
- **Agreement on test execution procedural details: 3rd IWG-DPPS**
- **Decision on open IWG items in GRSP: May 2019 GRSP**
- **Documentation: 4th IWG-DPPS**
 - Outline of the document
 - Draft wording
 - Finalized IWG wording proposal to GRSP
 - Recommendation of transitional period

Status of Amendment Discussion

- IWG is making progress based on 25 discussion items for the amendment

Prerequisite & Criteria	Information to be submitted, HBM requirement, Simulation requirement, Protection requirement below lower deployment threshold, Protection requirement at higher speed, Bonnet deflection requirements due to body loading, etc.
Verification	Total response time test, Deployment test, Test for protection requirement below lower threshold, Test for protection requirement at higher speed
Headform Test	Static test at the undeployed position, Static test at the deployed position, Dynamic test, Partial dynamic test

- Sub-group is preparing the discussion on the controversial items (blue above) in IWG
- Contracting Parties will discuss the items to reach the agreement

Next IWG Meeting

- **2nd Meeting**

- In Brussels, Belgium, 4 – 6 Sep. 2018
- Agreement on technical requirements
- Generating performance requirements
- Deciding on marking procedure

- **3rd Meeting**

- Geneva, Switzerland, the day prior to the 64th GRSP(tbd)
- Agreement on test execution procedural details

Thank you for your attention!