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

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Overview

- **Objective**
  To develop the amendment of GTR No.9 & UN R127 w.r.t. Deployable Pedestrian Protection Systems (DPPS)

- **Activities**
  - TF: NOV., 2016 ~ MAR., 2018
  - IWG: MAR., 2018 ~ JUN., 2021 (TOR mandate)

- **Meetings**
  - 6th Meeting (3rd ~ 4th MAR., 2020 / Online)
  - 7th Meeting (15th ~ 17th SEP., 2020 / Online)
  - 8th Meeting (18th NOV., 2020 / Online)

* Due to the Covid19 pandemic, the progress is slow
Summary of the amendment discussion

Verification of detection

Headform Test (physical)

Prerequisites
- System info
- HIT

Verification of detection

Headform Test (physical)

Prerequisites
- System info
- HIT

- Simulation
- Physical testing

Must meet the regulation criteria

Static test in undeployed position @LT x 0.9

Static test in deployed position @ 9.7 m/s

Static test in deployed position @ 9.7 m/s

Dynamic test @ 9.7 m/s

* HIT = Head Impact Time
LT = Lower Threshold
Major Issues

- HIT determination
  - simulation: considering the modification from Euro NCAP procedure (HBM, position, etc.)
  - physical testing: dummy testing based on SAE J2782
  - still some challenges

- Verification Impactor
  - Reviewing Flex-PLI as a candidate impactor

- Defining test area
  - undeployed condition: Korea, Germany, Japan, UK
  - deployed condition: Netherland, OICA

* HBM = Human Body Model
Major Issues

- HIT vs WAD for dynamic test
  - regression: UK, Netherland, Germany, Spain
  - dot-to-dot: Japan, Korea

- Sensing area
  - Discussing the definition and correlation with head test area

* WAD = Wrap Around Distance
Next IWG meeting

- **Next Meeting**
  - 20\textsuperscript{th} ~ 21\textsuperscript{st} JAN., 2021
  - Online meeting

- **More meetings (t.b.d.)**

- **Tentative Timeline**
  
  - **GTR9 drafting**
  - Informal GRSP Dec 2021
  - Formal GRSP May 2022
  - WP29 Nov 2022
Thank you for your attention