Status of PSG IWG
(Mutual Resolution No.[4])

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Background of MR No.[4]

- Panoramic Sunroof Glazing (PSG) is widely used in global vehicle production

- Ceramic layer, CPA (Ceramic Printed Area), is necessary on the toughened safety glass panes of PSG for the technical requirements and design purposes

- However, CPA reduces mechanical strength of toughened safety glass panes in general

- This indicates a higher risk of complete toughened safety glass pane breakage

- Informal Working Group (IWG) had established with adoption by the AC.3 on March 2015
Background of MR No.[4]

• The aim was to develop an amendment UN GTR No.6 (Safety Glazing) and UN R No.43

• Long-term studies are required for testing requirement amendment UN GTR No.6 and UN R No.43, would be take several years

• Industry has been developing new technologies for PSG, such as an enamel material instead of ceramic, it would have a possibility to reduce risk of glass breakage, but not available in the near future

• Based on this situation, all members of PSG IWG agreed recommendation with this Mutual Resolution is good intermediate solution until new technologies are possible to use
- **Major PSG IWG activities**

  - The activities of PSG IWG since 2015 can be categorized into 3 phases

  1. **1st phase (2015, 2016)**
     - Collect, analyze and discuss existing data from global markets to understand number of glass breakages and risk of injuries

  2. **2nd phase (2017, 2018)**
     - 1st amendment of UN GTR No.6 had submitted and approved on 112th GRSG session on April of 2017
     - Gather further data and validate how much research is needed to be able to make amendments UN GTR No.6, UN R No.43

     - Research will take too long so that IWG concluded to have a Mutual Resolution is a good immediate solution
     - IWG focused to define and agree on CPA limitation values
     - Among the 10 times of Webex meeting on 2019, IWG prepared Mutual Resolution No.4