Korean Safety Regulations on Micro Mobility related to passive safety
Implementation of Safety Regulations on Micro Mobility

- Reference: L7 category vehicle in EU regulation 168/2013

- Classification and safety regulations on Micro Mobility
  * Research: Reference GRSP-61-24_Introduction plan for implementing safety requirements of micro mobility
    - **Enforcement date**: 11 July 2018

- Classification of Micro Mobility
  - Power: Maximum continuous related power: 15kw or less
    (Internal-combustion engine: 250cc or less)
  - Dimensions: Length: 3.6m or less, Width: 1.5m or less, Height: 2.0m or less
  - Vehicle Type: passenger vehicle (600kg or less), vehicle for the carriage of goods (750kg or less)
Major requirements related to passive safety

- **Door latch & hinge**: similar to UN R11, apply about 80% of load

<table>
<thead>
<tr>
<th>Applied Load</th>
<th>Striker &amp; Latch (direction)</th>
<th>Hinge (direction)</th>
</tr>
</thead>
</table>
| UN R11             | 1,130 kg (Vertical)  
905 kg (Width)   | 1,130 kg (Longitudinal)  
905 kg (Width)   |
| Korean Requirements| 910 kg (Vertical)  
730 kg (Width)    | 910 kg (Longitudinal)  
905 kg (Width)   |

- **Seatbelt Anchorage**
  - 2 points-seatbelt: 1,820kg (0.2s or more)
  - 3 points-seatbelt: 1,100kg (0.2s or more at pelvic & torso)

<table>
<thead>
<tr>
<th>Applied Load</th>
<th>2 points-seatbelt</th>
<th>3 points-seatbelt</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN R14 (Seatbelt anchorage)</td>
<td>2,270 kg (pelvic)</td>
<td>1,360 kg (pelvic &amp; torso)</td>
</tr>
<tr>
<td>Korean Requirement</td>
<td>1,820 kg (pelvic)</td>
<td>1,100 kg (pelvic &amp; torso)</td>
</tr>
</tbody>
</table>

- **Seat Anchorage**
  - Applied load: 20 times of seat weight

- **Electrical Safety of high voltage system**
  - After collision test*, Check the safety insulation & prevention against electrical shock
  - * Frontal: 48.3km/h, Rear: 48.3km/h, Lateral: 50km/h
Thank you for your attention