

Implementing 1958/1998 Agreement in Korea

Hyoung-gu, Kim
hyoungu35@kotsa.or.kr

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1. Self-Certification System in Korea
2. Implementing 1958/1998 Agreement in Self-Certification System

1. Self-Certification System in Korea

● Self-Certification System in Vehicle Regulations

Type approval is granted to a product that meets a minimum set of regulatory, technical and safety requirements. Generally, type approval is required before a product is allowed to be sold in a particular country, so the requirements for a given product will vary around the world.

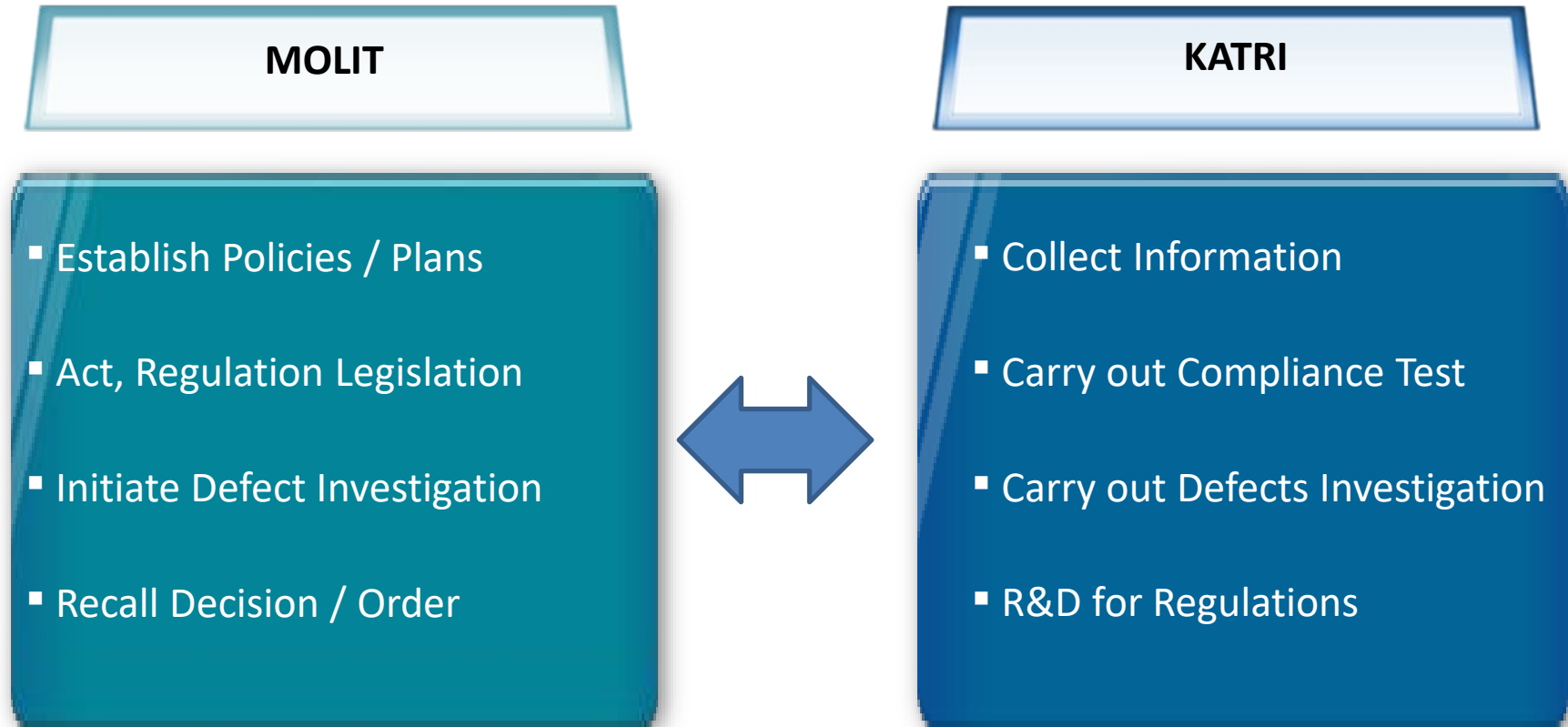
Self-certification system

- Government provides the vehicle safety standards to manufacturers for securing the safety of vehicles.
- Manufacturers certify themselves with their vehicles comply with the safety standards voluntarily and sell them in market without any vehicle approval from the government.
- If vehicles in market do not meet the safety standards or have a defect affecting the safety driving, the government can order the recall to the manufacturers.

| Item | Type Approval | Self-Certification |
|-------------|---|---|
| Before sale | <ul style="list-style-type: none">• Approval before sale• TAA/TS, Certification testing | <ul style="list-style-type: none">• No approval for vehicle• Manufacturer voluntarily testing |
| After sale | <ul style="list-style-type: none">• Conformity of Production(CoP)• In-service conformity | <ul style="list-style-type: none">• Compliance Test, Recall if fail |

1. Self-Certification System in Korea

● Function & Roles of MOLIT and KATRI



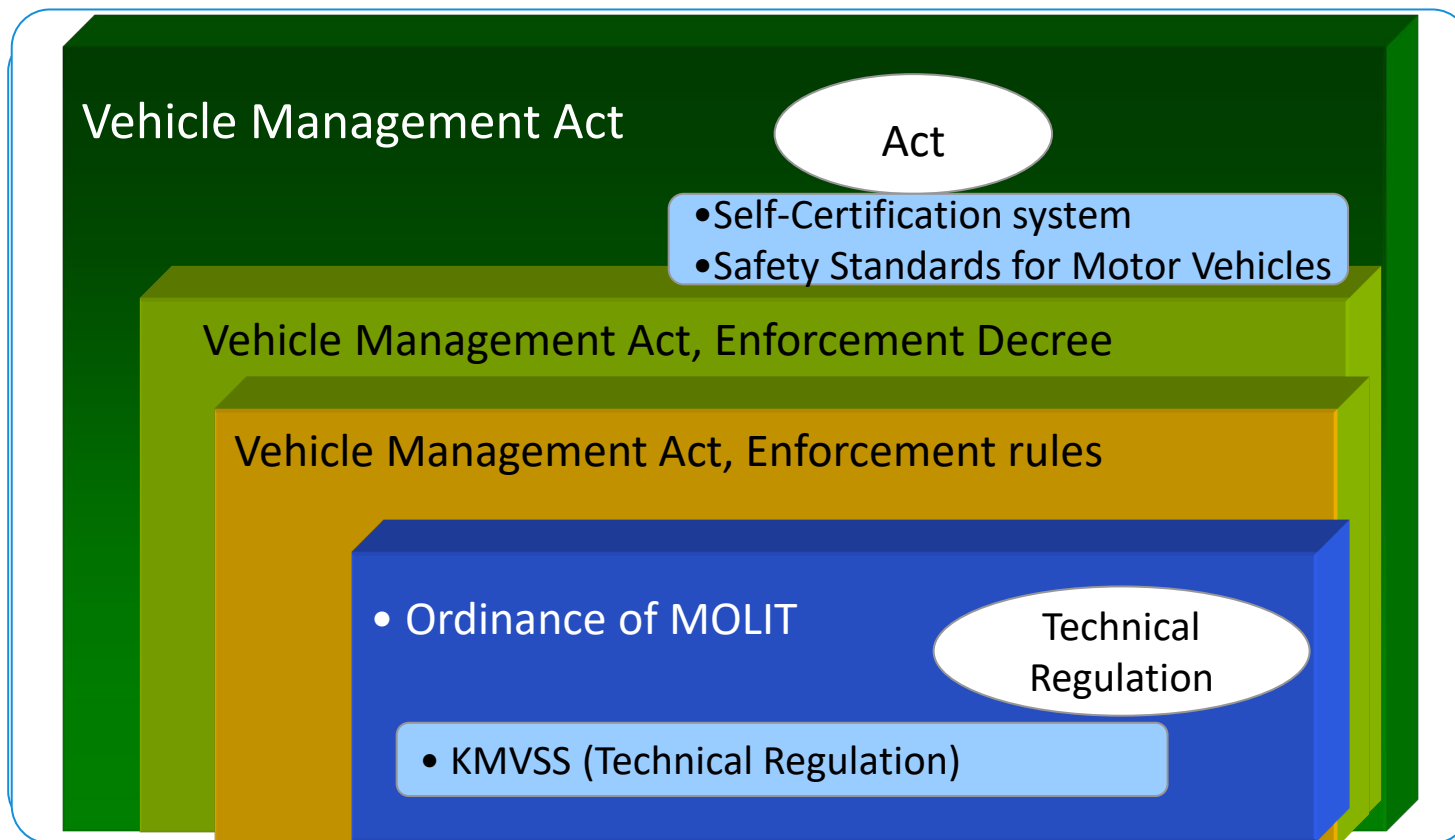
* MOLIT : Ministry of Land and Infrastructure, Transport

* KATRI : Korea Automobile Testing & Research Institute

1. Self-Certification System in Korea

● Motor Vehicle Management ACT

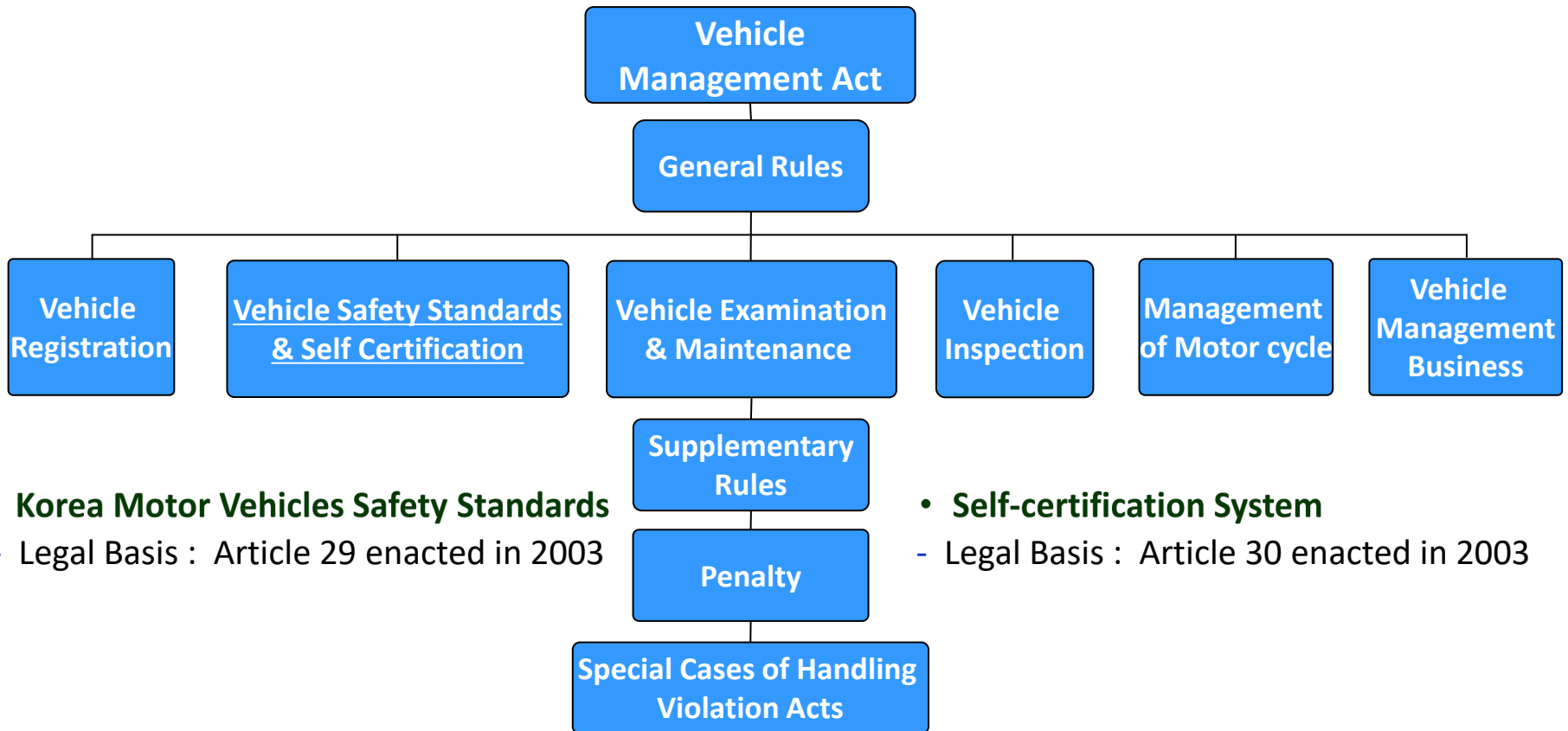
- **Purpose** : ensuring performance and safety of vehicles as well as efficient management of vehicles



1. Self-Certification System in Korea

● Motor Vehicle Management ACT

- **Motor Vehicle Management ACT** enacted in 1986
- Purpose: efficient management of vehicles & ensuring performance and safety of vehicles



- **Korea Motor Vehicles Safety Standards**
 - Legal Basis : Article 29 enacted in 2003

- **Self-certification System**
 - Legal Basis : Article 30 enacted in 2003

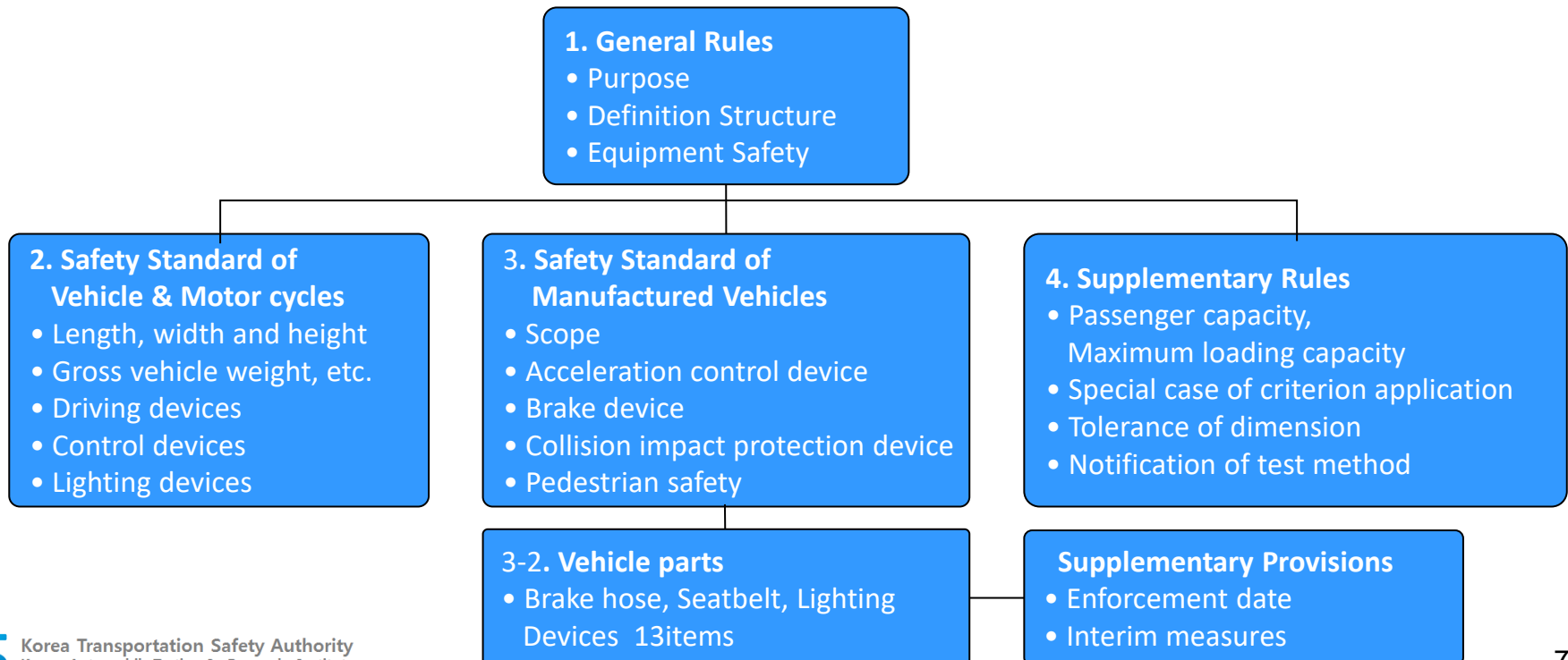
1. Self-Certification System in Korea

● Motor Vehicle Management ACT, Article 29

- Article 29 (Structure and Devices of Motor Vehicles)(1) If the structure and devices of a motor vehicle as prescribed by Presidential Decree fail to meet the performance requirements and standards required for safe operation (hereinafter referred to as "**safety standards for motor vehicles**"), the motor vehicle shall not be operated.

● Korea Motor Vehicle Safety Standards

- No. 465 Ordinance of the Ministry of Land, Infrastructure and Transport



1. Self-Certification System in Korea

● How to do the Self-Certification System in Korea?

1. Manufacturer Registration

- Manufacturer and their safety test facilities should be registered to the Ministry of Land, Infrastructure and Transport(MOLIT) in order to enforce the responsibility of follow-up services including recall to the companies conducting self certification.
- In case of imported vehicles, if the Korean representative of the foreign manufacturer is designated, the corresponding manufacturer is assumed to have the self certification capability

2. Self Certification Label

- When the self certification is completed by the manufacturer, the label of self-certification should be displayed in the vehicle.



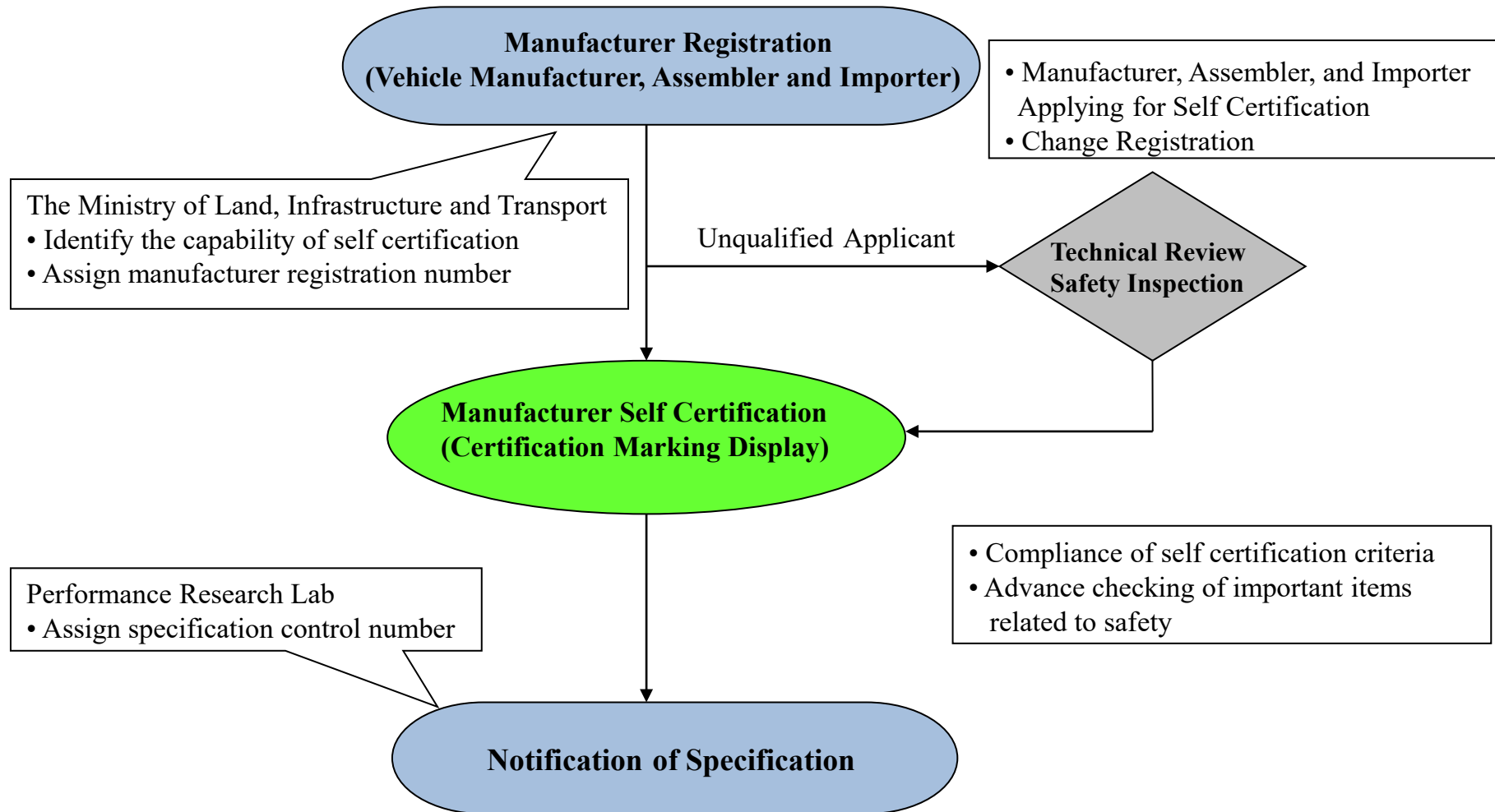
3. Notify the Vehicle Specification

- Upon the completion of the self certification, the vehicle specification should be notified to the Performance Test Agent(National Vehicle Management Network System).
- Then, manufacturer can get the Vehicle Specification Number which will be used for their vehicle registration through the National Vehicle Management Network System.

1. Self-Certification System in Korea

● Implementing procedure of Self-Certification System

<Procedure of Self-Certification>

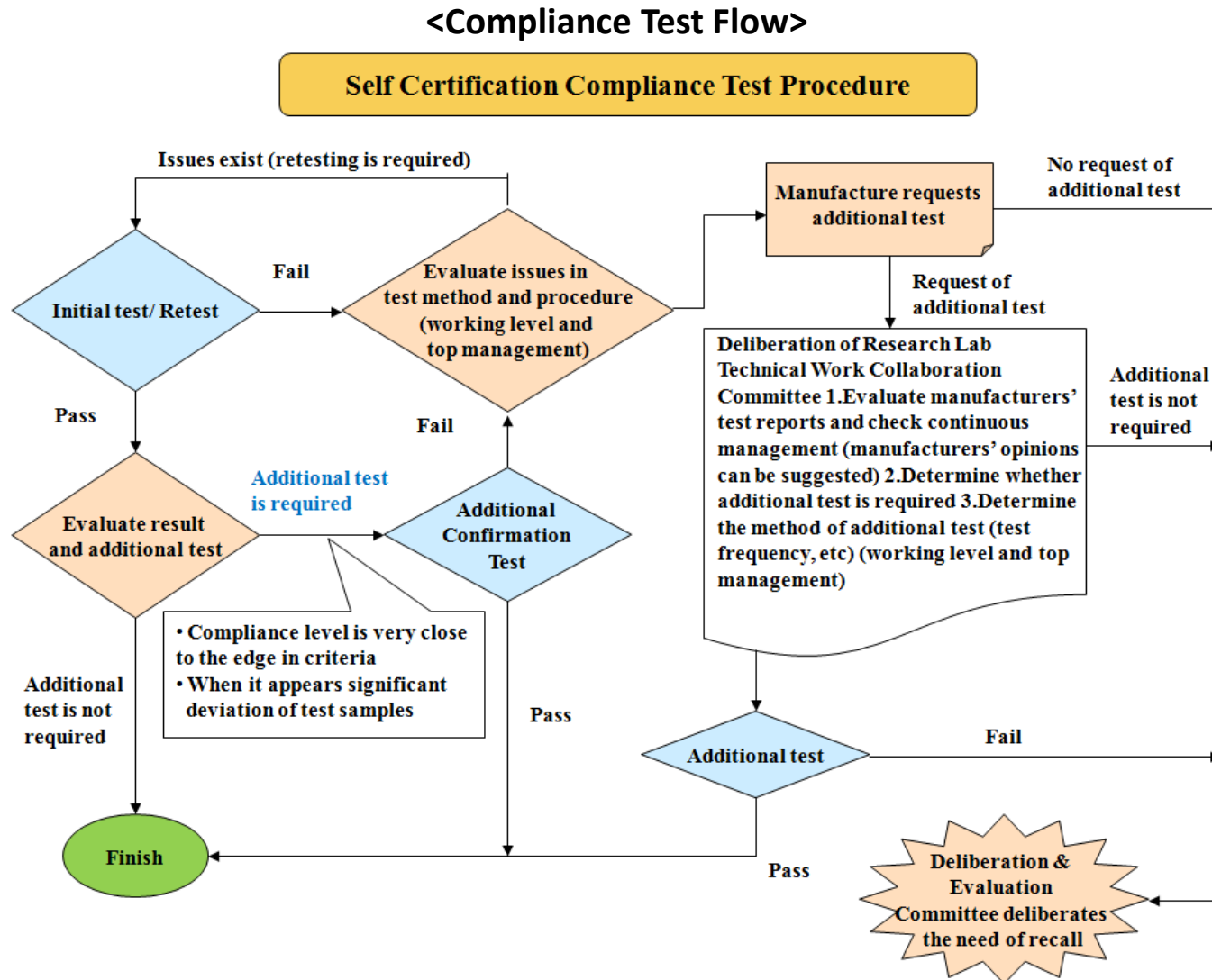


● Compliance Test for Self-Certification System

- **Motor Vehicle Management ACT, Article 30-3, (2)** In order to confirm whether a motor vehicle manufacturer, etc. or part manufacturer, etc. falls under any of the subparagraphs of paragraph (1), **the Minister of Land, Infrastructure and Transport may have a performance test agent conduct the investigation of such fact.** In such cases, the Minister of Land, Infrastructure and Transport shall subsidize the expenses incurred in such investigation.
- **Scope of Investigation**
 - ✓ Whether self certification procedure or violate (False or other improper methods)
 - ✓ Whether Motor vehicles in compliance with the safety standards or not
 - ✓ Whether Vehicle manufactured was sold in proper way from the self certification or not
 - ✓ Whether there was a violation in the execution of recall order, etc.
- **Investigation Method**
 - ✓ MOLIT establishes an annual plan including the target vehicle types and test items and orders the investigation(Compliance Test) to KATRI.
 - ✓ KATRI establishes the investigation plan and reports the details to the MOLIT.
 - ✓ KATRI conducts the investigation results to the MOLIT after the Compliance Test.
 - ✓ When the manufacturer voluntarily accepts the defects and reports the recall plan, MOLIT finishes the investigation.
 - ✓ When the result of the investigation shows incompliance to KMVSS, Penalty will be imposed, and recall will be ordered from MOLIT

1. Self-Certification System in Korea

● Compliance Test Investigation Procedure





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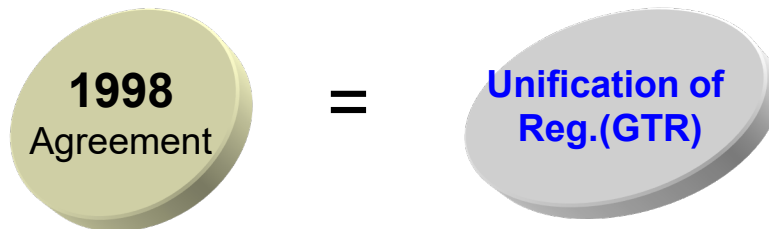
● Status of the Korean accessions on Agreements(UN/ECE/WP.29)

● 1958 Agreement (UN Regulation)



- Accession Date : 2004.12.31
- Contracting Parties : 57 Countries
- UN Regulations : 152 items

● 1998 Agreement (UN GTR : UN Global Technical Regulations)



- Accession Date : 2001.1.1
- Contracting Parties : 38 Countries
- UN Regulations : 20 items

2. Implementing 1958/1998 Agreement in Self-Certification System

● Status of Harmonization with UN Regulations in KMVSS

➤ Summary of Harmonized Regulations in KOREA (2006 ~ 2015)

- 73 UN regulations and 14 UN GTRs were introduced into KMVSS capability

| Year | UN Regulation | UN GTR | Year | UN Regulation | UN GTR |
|------|---|---|------|---|---|
| 2006 | R13H : Passenger vehicle brake R19 : Front fog lamp | GTR No. 1 : Door locks & retention | 2012 | R1,2,8,20,72,112,113 : Headlamps for motorcycle R13 : Brake Assist System(BAS) R53 : Light & Lighting devices for motorcycle R107 : Minimum Turning Radius | - |
| 2008 | R14 : Safety belt anchorages R39 : Speedometer R53 : Motorcycle installation R57 : Motorcycle headlamp R73 : Lateral Protection R95 : Side Collision R107 : Safety Inclination angle R123 : Semi-AFS | GTR No. 3 : Motorcycle brake GTR No. 9 : Pedestrian safety | | R3 : Retro-reflecting devices R4 : Rear registration plate lamps R7 : Front & rear position lamps, Stop-lamps, End-outline Marker Lamps R16 : Seat belts R21 : Power-operation of Windows R23 : Reversing lamps R30, 54 : Pneumatic Tyres R38 : Rear fog lamps R55 : Coupling components R58 : Rear underrun protection R70 : Rear marking plates R98 : Gas Discharge headlamps R100 : Battery electric vehicle R119 : Cornering lamps | GTR No. 4 : WHDC GTR No. 5 : ODB GTR No. 13 : The hydrogen and Fuel cell vehicles |
| 2009 | R48 : Hazard warning signal | - | 2014 | | |
| 2010 | R6 : Side direction indicator R10 : EMC R13 : Spring brake R46 : Rear view mirror R79 : Steering effort R87 : DRL R112 : Asymmetric headlamps R123 : Full AFS R125 : Field of Vision | GTR No. 6 : Safety glazing GTR No. 7 : Head restraint GTR No. 8 : ESC | | | |
| 2011 | R42 : Bumper R64 : TPMS R85 : Engine and Net power R91 : Side marker Lamp | - | 2015 | - | GTR No. 11 : Engine emissions for Non-Road Machinery |

2. Implementing 1958/1998 Agreement in Self-Certification System

● Status of Harmonization with UN Regulations in KMVSS

➤ Summary of Harmonized Regulations in KOREA (2017 ~ 2020)

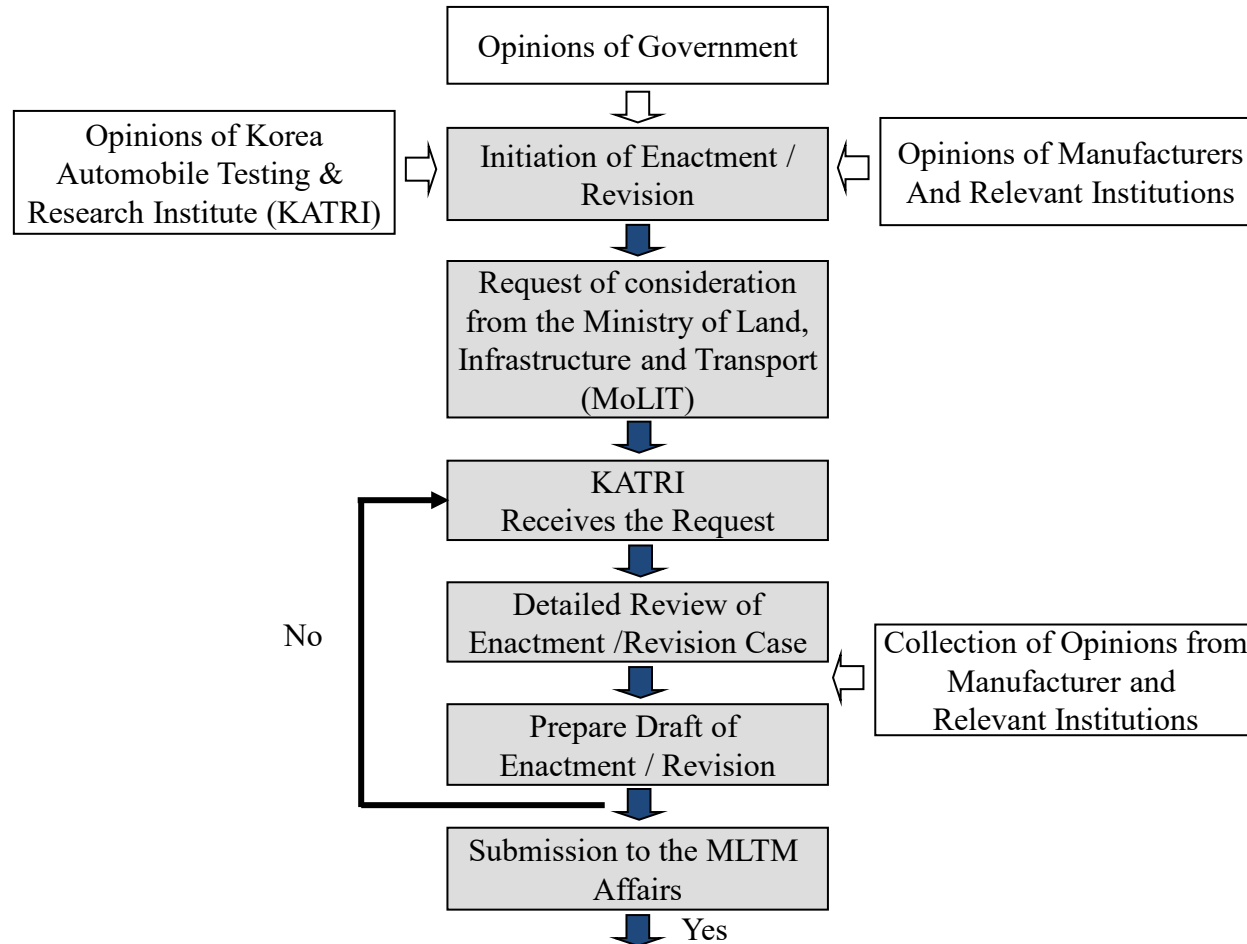
- 73 UN regulations and 14 UN GTRs were introduced into KMVSS capability

| Year | UN Regulation | UN GTR |
|------|--|---|
| 2017 | <p>R18 : Protection against unauthorized use</p> <p>R27 : Advance warning triangles</p> <p>R36 : Construction of public service vehicles(space for fire extinguisher)</p> <p>R66 : Strength of the superstructure of large passenger vehicles</p> <p>R69 : Rear marking plates for slow moving vehicles</p> <p>R75 : Pneumatic tyres(moped, motorcycle)</p> <p>R81 : Rear-view mirrors(motorcycle)</p> <p>R 90 : Replacement brake lining assemblies</p> <p>R121 : Identification of controls & tell-tales</p> <p>R124 : Passenger car wheel</p> <p>R127 : Pedestrian Safety Performance</p> <p>R130 : Lane departure warning system</p> <p>R131 : Advanced Emergency Braking System (AEBS)</p> | <p>GTR No. 2 : Motor cycle emission</p> <p>GTR No. 17 : Cran kcase & evaporativ e emissions of L category vehicles</p> <p>GTR No. 18 : On-Board Diagnostic (OBD) systems for L-category Vehicles</p> |

| Year | UN Regulation | UN GTR |
|------|--|---|
| 2018 | <p>R77 : Parking Lamps</p> <p>R94 : Frontal collision protection</p> <p>R135: Pole side Impact</p> <p>R137 : Frontal impact with focus on restraint systems</p> <p>R138 : Quiet Road Transport Vehicle (QRTV)</p> <p>R139 : Brake Assist Systems</p> <p>R140 :Electronic Stability Control</p> <p>R141 : Tyre Pressure Monitoring System</p> | <p>GTR No. 14 : Pole side impact</p> |
| 2019 | <p>R148 : Light Signalling Devices</p> <p>R149 : Road Illumination Devices</p> <p>R150 : Retro-Reflective Devices</p> | |

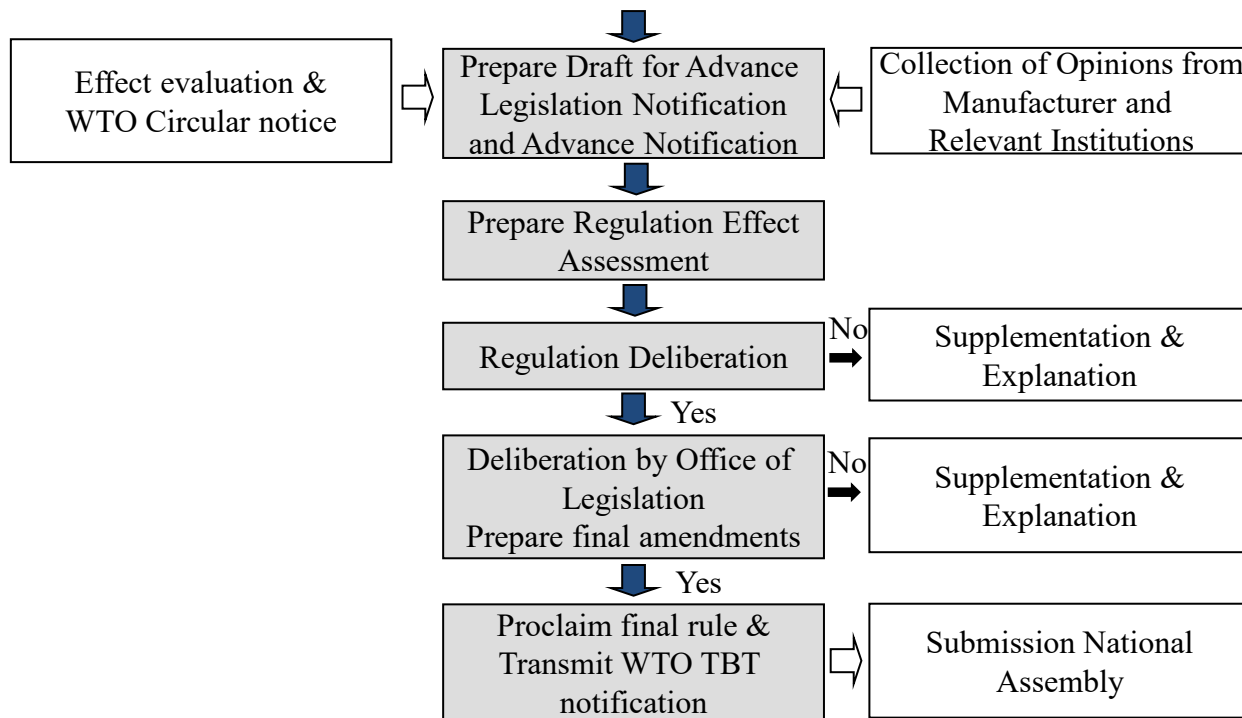
2. Implementing 1958/1998 Agreement in Self-Certification System

● Enactment & Revision Procedure



2. Implementing 1958/1998 Agreement in Self-Certification System

● Enactment & Revision Procedure



2. Implementing 1958/1998 Agreement in Self-Certification System

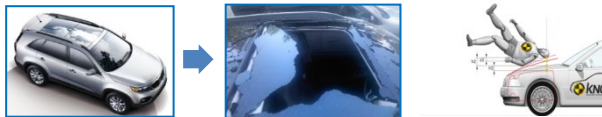
● Main activities in WP.29

- Participation in WP.29 plenary meetings & 6 GRs
 - * Vice Chair of GRSP since 2014
- Participation in 17 Informal Working Groups (as of Dec. '20)



Chair & Vice-chair

- **Chairmanship**
 - (GRSG) **Panoramic Sunroof Glazing IWG**
 - (GRSP) **UN GTR No.9 Phase 2 : Deployable Pedestrian Protection System**
- **Vice-Chairmanship**
 - (GRPE) **Vehicle Interior Air Quality (VIAQ)**
 - (GRSP) **UN GTR No.13(HFCV) Phase 2**
- **TF Leader**
 - (GRSP) **UN GTR No.13(HFCV) Phase 2**



AV & Others

- **Autonomous Vehicle**
 - FRAV(Functional Requirement for AV)
 - Cyber Security & OTA
 - VMAD (Validation Method For AD)
 - AEBS for passenger vehicles
 - DSSAD/EDR
- **Other Informal Working Groups**
 - Electric Vehicle Safety(EVS)
 - Electric Vehicle and Environment(EVE)
 - Simplifications of the Lighting and Lighting Signaling Regulations(SLR)
 - Visibility, Glare and Levelling
 - WLTP Phase 2
 - GTR No.7 Phase 2 (Head restraint System)
 - EPPR IWG, GTR No.16 (Tires) Phase 2
 - STCBC(Safer Transport of Children in Buses and Coaches)



Thank you for your attention

Hyoung-gu, Kim
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