

# Korea's Policy towards Vehicle Safety Standards Harmonization

November 2006

Ministry of Construction and Transportation  
Republic of Korea

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# I. Background

- WIO system has reduced most trade barriers caused by tariffs
- But different countries' different automobile safety standards work as technical trade barriers



Korea needs to respond to this trend

# II. Policy Goals and Implementation Plans

- **Improve safety standards to international levels**
- **Enhance vehicle quality to provide maximum protection of passengers**

Harmonize safety standards with international standards

- Gradually adopt ECE Reg.
- Actively adopt GTR

Enhance international cooperation on automobile safety standards

Enhance Multilateral Cooperation

- Lead APEC/VSHG
- Participate in ESV
- Consider dispatching to WP29

Pursue Bilateral Cooperation

- Strengthen cooperation with China, Japan and the US
- Plan to build coop. channel with EC

Transparent Procedures

# III. Overview of Korean Safety Standards

- 1960 : Introduced Vehicle Management System
- 1993 : Strengthened Safety Standards (38 Items introduced)

➤ Self-certification system was introduced in 2003, replacing type approval system.

## ❖ Composition of Safety Standards (Ministerial Regulation)

<b>General Provisions</b>	<b>3 Articles(Art.1    Art.3)</b>
<b>Provisions for Vehicles in use</b>	<b>55 Articles (Art.4    Art.58)</b>
<b>Provisions for Motorcycles</b>	<b>26 Articles (Art.59    Art.84)</b>
<b>Provisions for New Vehicles</b>	<b>28 Articles (Art.85    Art.112)</b>
<b>Supplementary Provisions</b>	<b>4 Articles (Art.113    Art.116)</b>

# III. Overview of Korean Safety Standards

- Structures : 7 Articles
- System and Equipment : 78 Articles

**Structural Standards**  
(Dimension, etc.)

**Emission, Noise**

MOE

## Components/device standards

**Active Safety Standards**

**Passive Safety Standards**

**Performance Standards**

# III. Overview of Korean Safety Standards

## ● Active Safety : 16 items

items	Relevant standards
1. Lamps, Reflective Devices and Associated Equipments	ECE 7,19,23,38,46,48 FMVSS 108
2. Forward and Rearward Visibility	ECE 46
3. Windshield Defrosting and Defogging System, Wiping and Washing System	FMVSS 103
4. Accelerator Control Systems	FMVSS 124
5. Brake for Passenger Cars	ECE 13H
6. Brake for Veh. Other Than Passenger Cars	ECE 13
7. Brake for Trailers	ECE 13

# III. Overview of Korean Safety Standards .

## ● Active Safety : 16 items (Cont'd)

items	Relevant standards
8. Brake for Cars Equipped with ABS	ECE 13
9. Brake for Trailers Equipped with ABS	ECE 13
10. Brake during Turning for Combination Veh.	-
11. Rapid Tire Pressure Loss	FMVSS 110
12. Steering Performance	ECE 79
13. Speed Limitation Device	ECE 89
14. Speedometer	ECE 39
15. Electro-Magnetic Compatibility (EMC)	EEC 10
16. Horn	-



# III. Overview of Korean Safety Standards

## ● Passive Safety : 21 items

items	Relevant standards
1. Occupant Crash Protection	ECE 95 (Side) FMVSS208 (Frontal)
2. Steering Control Rearward Displacement	FMVSS 204
3. Fuel System Integrity	FMVSS 301
4. Windshield Mounting	FMVSS 212
5. Windshield Zone Intrusion	FMVSS 219
6. Seating System Anchorages	FMVSS 207
7. Head Restraints	FMVSS 202
8. Door Locks and Door Retention Components	<b>GTR 1</b>
9. Impact Protection from the Instrument Panel	FMVSS 201
10. Impact Protection from the Seatback	FMVSS 201
11. Impact Protection from the Sun-visors	FMVSS 201

### III. Overview of Korean Safety Standards .

#### ● Passive Safety : 21 items (Cont'd)

items	Relevant standards
12. Impact Protection from the Armrests	FMVSS 201
13. Impact Protection from the Interior Rearview Mirrors	FMVSS 111
14. Impact Protection for the Driver from the Steering Control System	FMVSS 203
15. Side Door Strength	FMVSS 214
16. Roof Crush Resistance	FMVSS 216
17. Seat Belt Assembly Anchorages	FMVSS 210
18. Rear Under Ride Protection	ECE 58
19. Flammability of Interior Materials	FMVSS 302
20. Interior Compartment Doors	FMVSS 201
21. Anchorages for Child Restraint System	-

# III. Overview of Korean Safety Standards

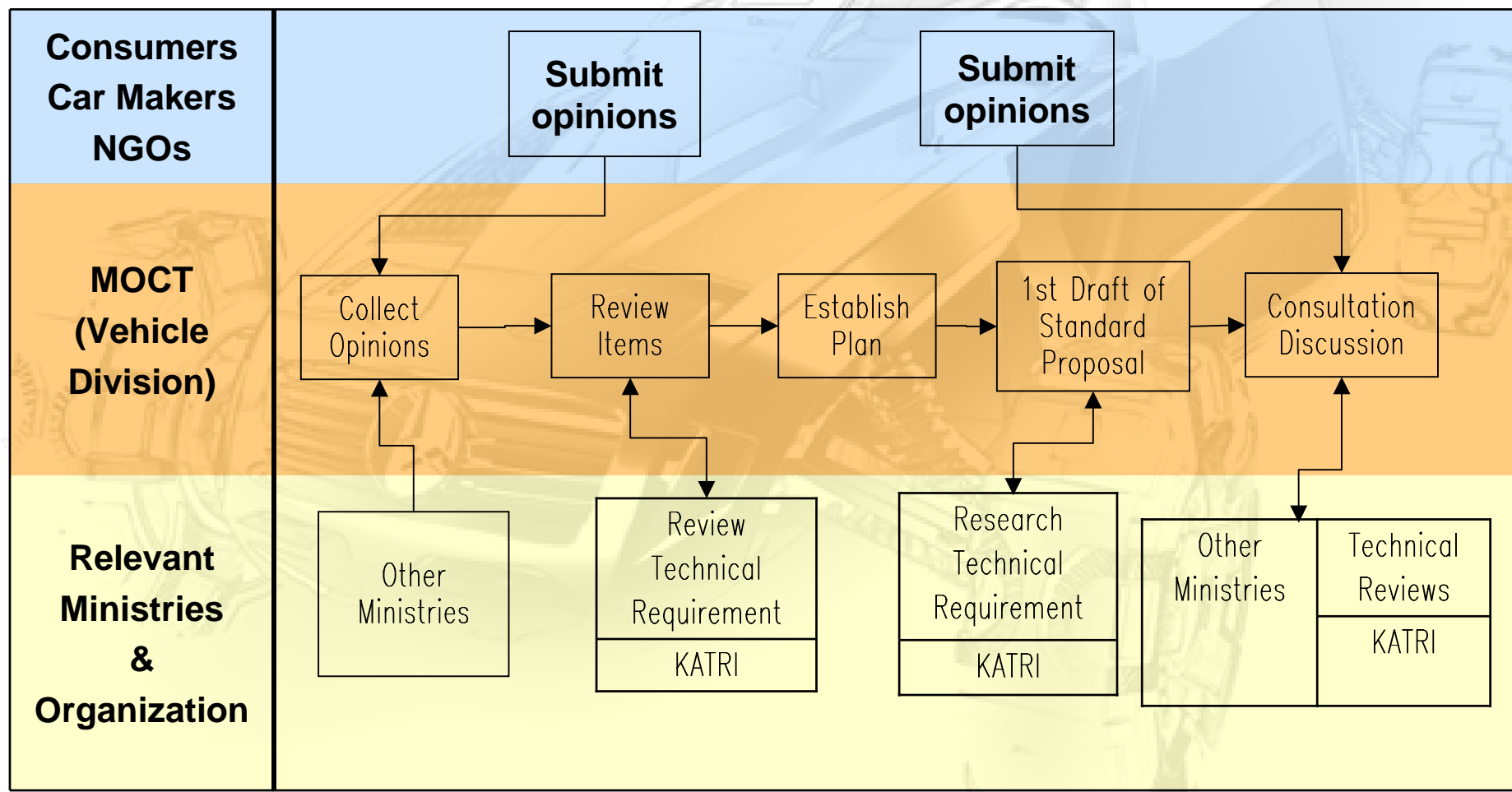
## ● Performance & etc. : 5 items

items	Relevant standards
1. Engine Power	ECE 85
2. Noise	-
3. Fuel Consumption	CFR 40 part 600
4. Bumpers	CFR 49 part 581
5. Towing Devices	EEC 77/389

- Active Safety Items mainly based on ECE Regulations, and
- Passive Safety Items mainly based on US FMVSS

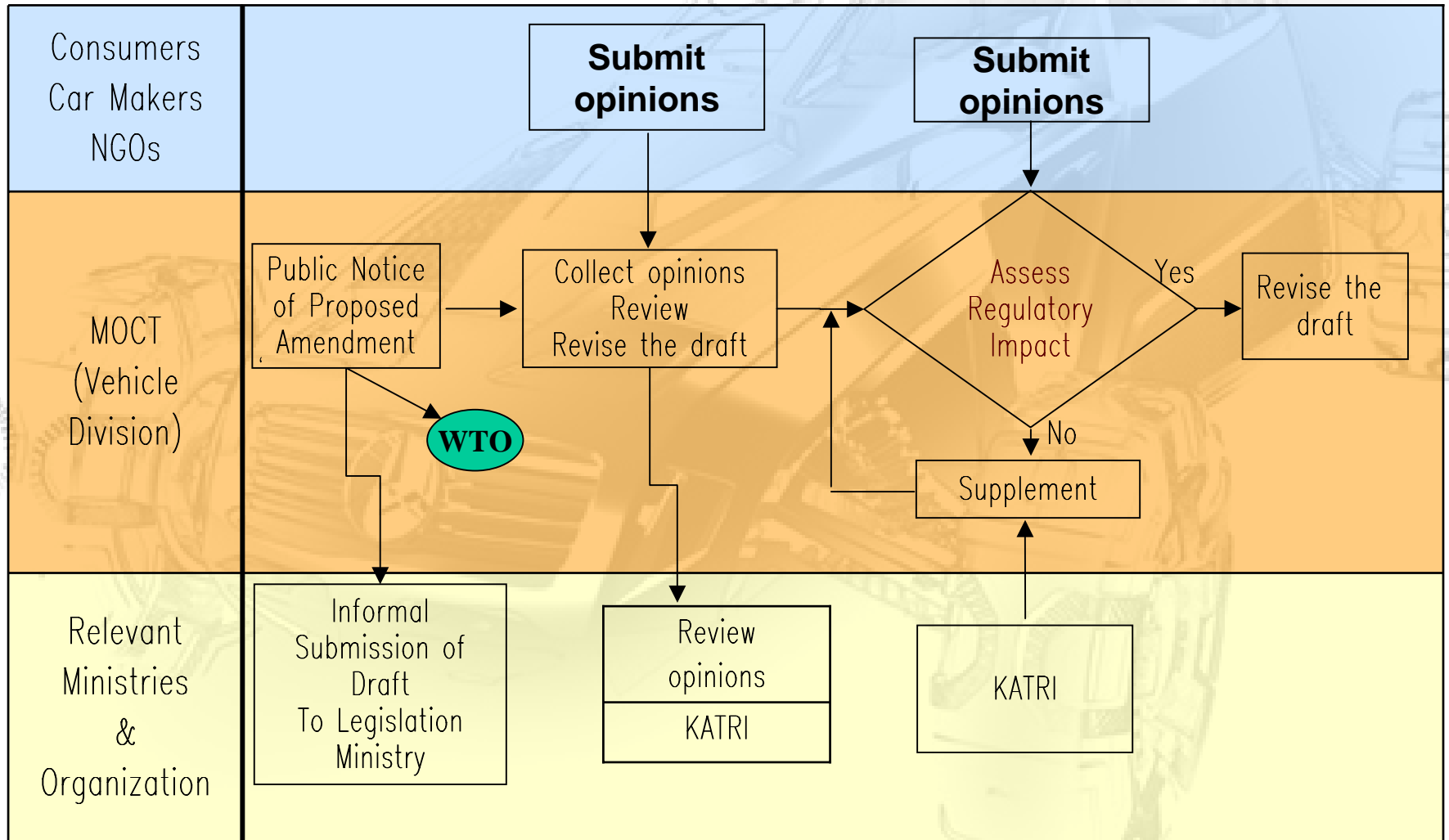
# IV. Procedures to amend safety standards .

## 1st Phase: Drafting of an Amendment Proposal



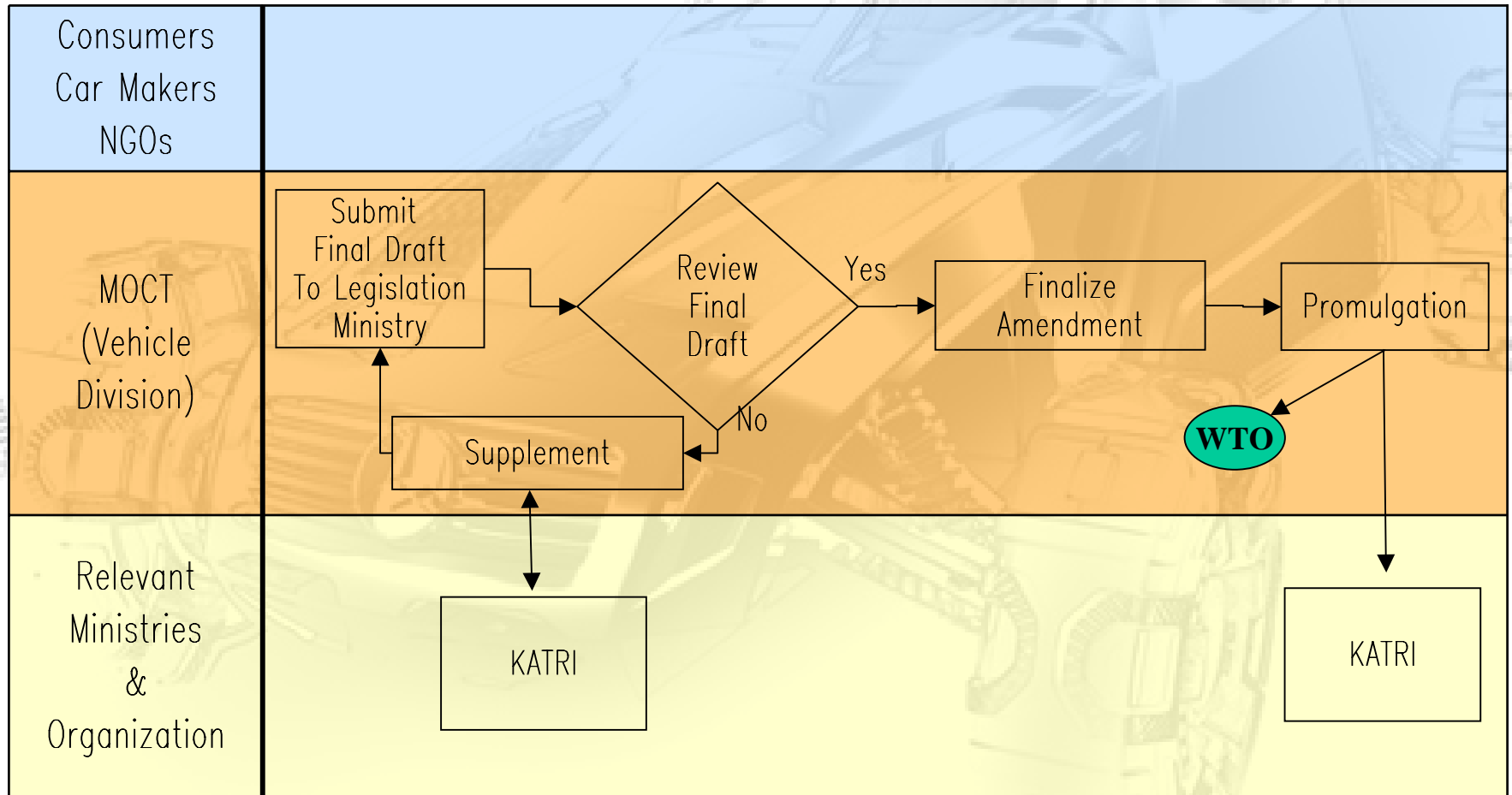
# IV. Procedures to amend safety standards .

## 2<sup>nd</sup> Phase: Development of an Amendment Proposal



# IV. Procedures to amend safety standards .

## 3<sup>rd</sup> Phase : Finalization and Promulgation



# V. Ensuring Transparency in Rulemaking Procedures

<b>Step 1 Collecting Opinions from Interested Parties</b>	<b>When making plans for standards establishment/amendment, we will gather opinions from various stakeholders including car manufacturers, consumers and related organizations throughout the whole process.</b>
<b>Step 2 Regulatory Impact Assessment</b>	<b>1<sup>st</sup> Assessment: Within MOCT 2<sup>nd</sup> Assessment: Through Regulatory Reform Committee Under Prime Minister (PM)</b> <ul style="list-style-type: none"><li>- Co-Chair: PM and civilian representative</li><li>- Members: 12 civilian representatives, 6 Gov. representatives</li></ul>
<b>Step 3 WTO Notification</b>	<b>Notification to WTO:</b> <ol style="list-style-type: none"><li>1. When standards establishment/amendment is proposed</li><li>2. When standards establishment/amendment is promulgated</li></ol>

# VI. Harmonizing with International Standards .

## Directions

- ◆ Adopt all the GTRs
- ◆ Harmonize with ECE Regulations

## Principles in Selecting Items for Harmonization

- ◆ Priority is given to standards for passenger cars
- ◆ Select items that have less impact on domestic industry and transportation environment
- ◆ Pursue harmonization of 4~5 items every year



# VI. Harmonizing with International Standards .

Year	ECE Regulations & GTR
2005	<p><b>ECE R13H (Passenger Car Brakes)</b> <b>ECE R19 (Front Fog Lamps)</b> <b>ECE R58 (Rear Under-ride Protection)</b></p>
2006	<p><b>GTR No.1 (Door Locks and Retention)</b> <b>ECE R39 (Speedometers)</b> <b>ECE R95 (Lateral Collision)</b> <b>ECE R121 (Tell-Tales) or Proposed GTR</b> <b>Proposed GTR (Head Restraints)</b></p>

# VI. Harmonizing with International Standards .

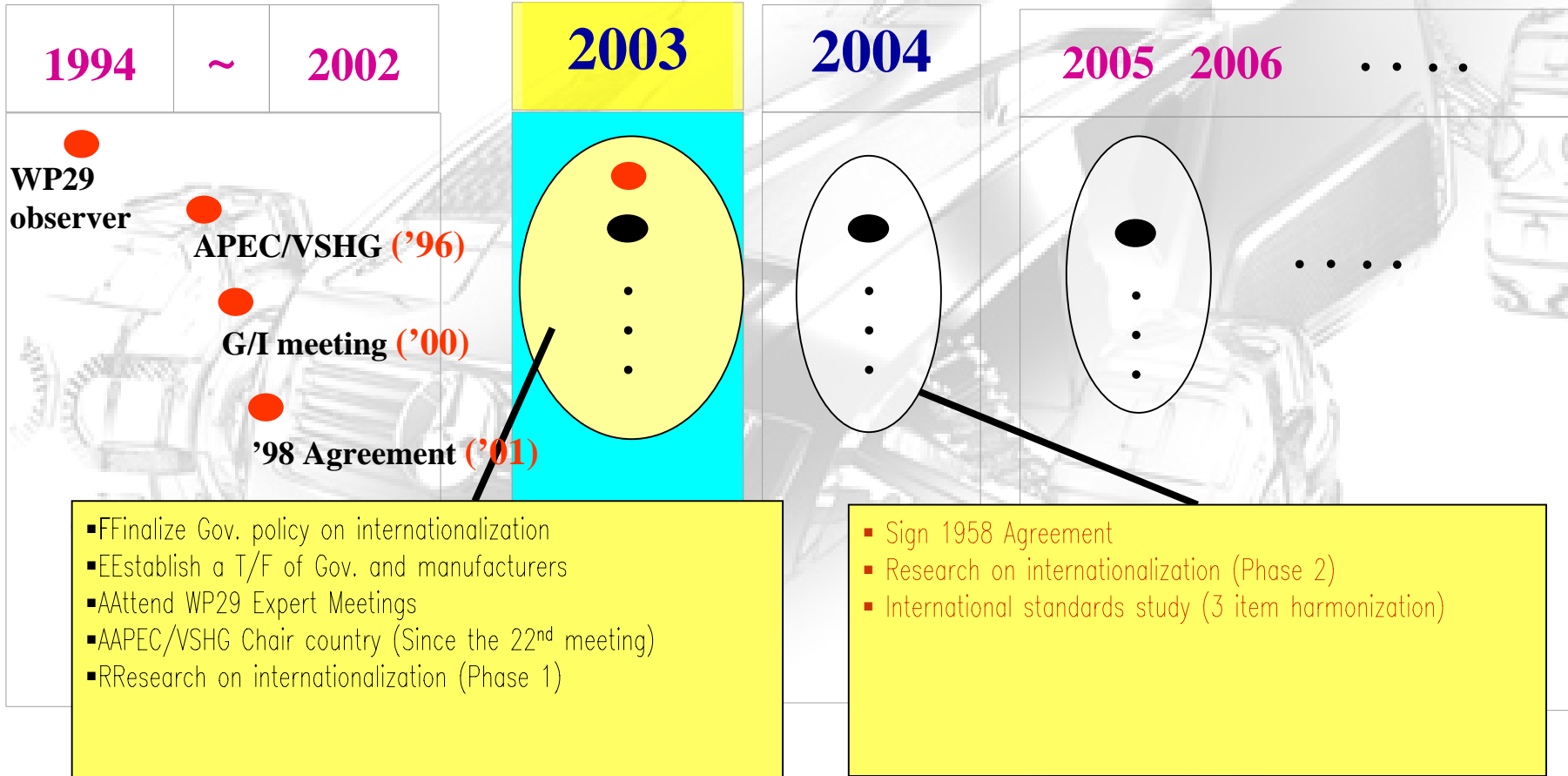
Year	ECE Regulations & GTR
2007	<p><b>ECE R3 (Reflex Reflectors)</b></p> <p><b>ECE R89 (Speed Limitation Devices)</b></p> <p><b>ECE R98 (Gascharge Headlamps)</b></p> <p><b>ECE R99 (Gascharge Light Sources)</b></p>
2008	<p><b>ECE R10 (Radio Interference)</b></p> <p><b>ECE R66 (Strength of Super Structure)</b></p> <p><b>ECE R79 (Steering Equipment)</b></p>

# VII. Enhancing International Cooperation .

**Passive**

**Active**

**Continue harmonization**



# VII. Enhancing International Cooperation .

## APEC/TPT-WG/VSHG

- ◆ First meeting attended was in 1996 (the 10<sup>th</sup> meeting)
  - ◆ VSHG Chair country since 2003 (the 22<sup>nd</sup> meeting)
  - ◆ The 28<sup>th</sup> VSHG Meeting: 5 – 8 September 2006 (Vancouver, Canada)
    - Proposed ways to facilitate APEC/VSHG (Enhanced the cooperation as the chair country)
- ✓ TPT-WG: Transportation Working Group  
✓ VSHG: Vehicle Standard Harmonization Group

## ESV Participation

- ◆ Twelve member countries including European countries, Japan and the United States
  - ◆ Korea joined the conference (6 June 2005)
  - ◆ The 20<sup>th</sup> Meeting: 19 June . 21 June 2007
    - Co-chair country for the motorcycle safety section  
Planning to present some related-research papers
- ✓ **ESV : International Technical Conferences on the Enhanced Safety of Vehicles**

# VIII. Future Directions

## Active role in international standard discussion (WP29)

- Enhance status of the world's 5<sup>th</sup> largest automaker
- Work for standards that benefit carmakers and consumers

## Increase number of items to harmonize

- Plan for mid · long term harmonization
- Research items for harmonization each year

## Strengthen international cooperation

- Actively participate in international and bi-lateral meetings

# Thank you !!

