

Future direction for harmonization of vehicle regulations

~ Japanese contribution to WP29 ~

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1. Japan's basic position on the harmonization activities of vehicle regulations

✚ Aiming at:

- promotion of the development and early dissemination of safe & environmentally friendly vehicles; and
- facilitation of the international distribution of vehicles

✚ deeming that:

- the most appropriate place to promote international harmonization of vehicle regulations is WP29,

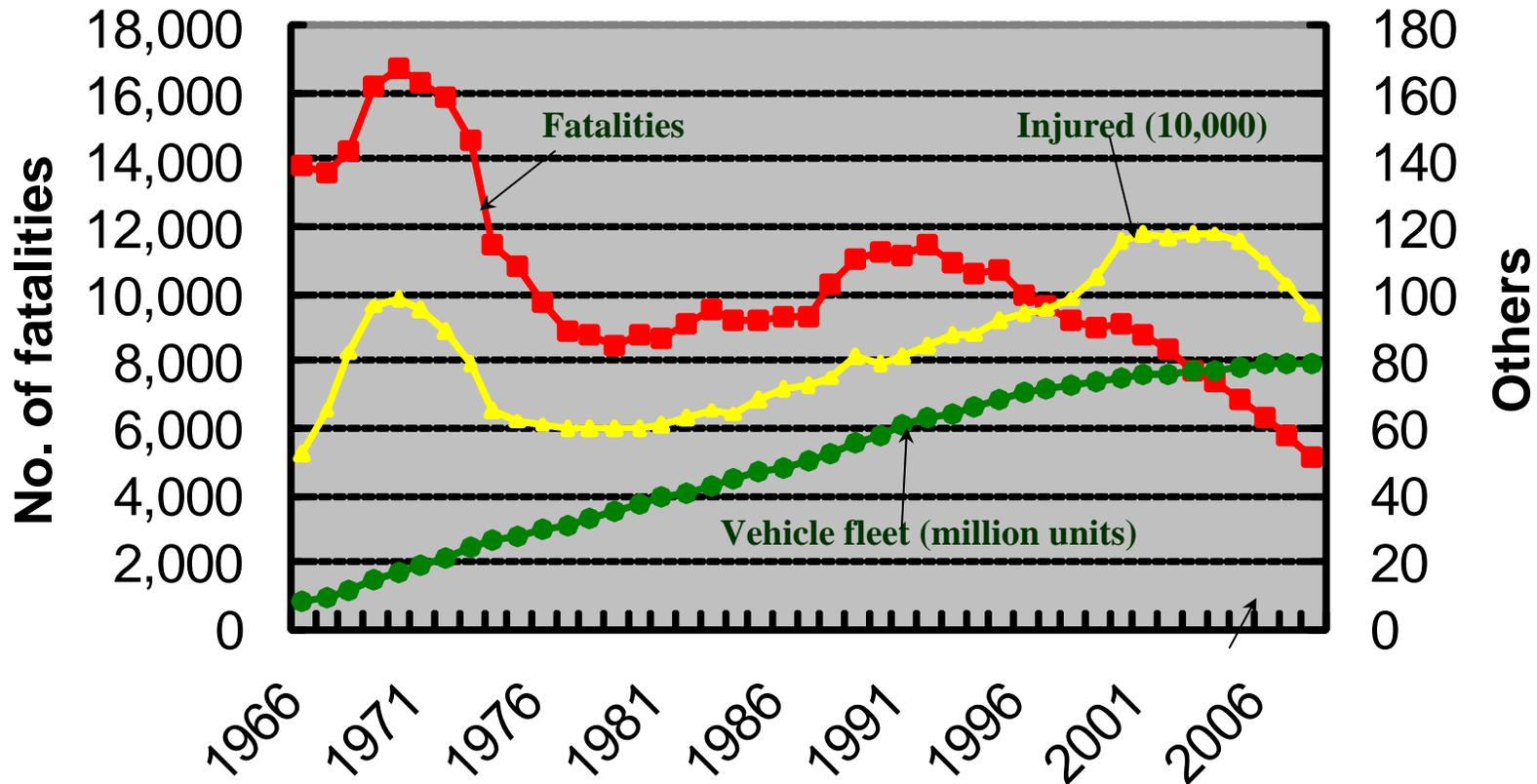
Japan has been proactively participating in the WP29 activities and promoting the international harmonization of vehicle regulations.

2. Domestic situation on vehicle safety and environmental protection in Japan

~ SAFETY ~

Current situation on road traffic accidents

- In 2008: 5,155 fatalities, 0.95M injuries, 0.77M accidents
- The situation of the road traffic accident is still serious in Japan



2. Domestic situation on vehicle safety and environmental protection in Japan

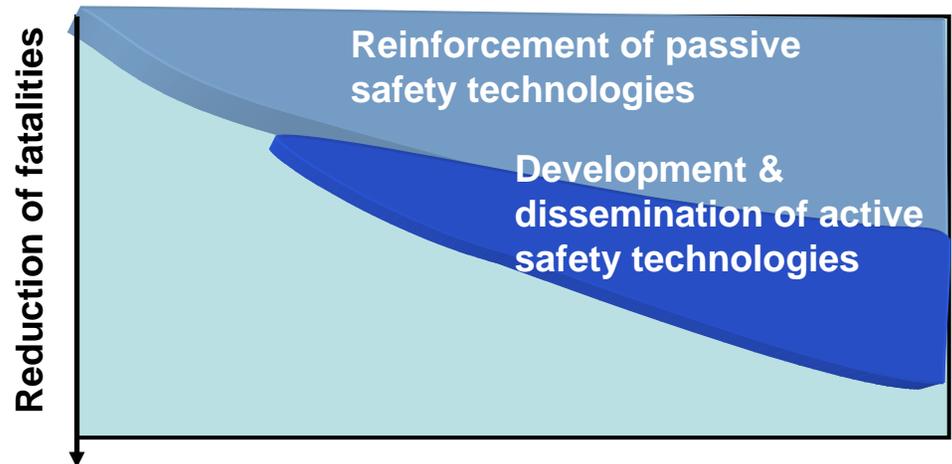
~ SAFETY ~

New governmental target (set in Jan. 2009)

■ Reduction of the number of fatalities to 2,500 or less by 2018

Vehicle Safety Measures

To achieve the target, it is necessary to develop and disseminate active safety technologies, in addition to passive safety technologies.



Items to be introduced

ESC; Pedestrian Safety; Braking Assist; etc...

Candidate items for future regulations

Approaching Warning Device for HEV and EV; Prevention of Drunk Driving, Safety of Lithium-ion Battery; etc...

2. Domestic situation on vehicle safety and environmental protection in Japan ~ ENVIRONMENT ~

Statement by the Prime Minister (in Sep. 2009 at the 64th session of the UN General Assembly)

- Reduction of GHG emissions by 25% by 2020, compared to the 1990 level, on agreement on ambitious targets by all the major economies

It is necessary to:

- Consider
 - + Development of regulations to further improve fuel efficiency,
 - + Development of low-emission and fuel-efficient vehicles,
 - + Introduction of incentives such as taxation reduction system, etc.;
- Integrate various measures aimed at vehicles, infrastructures or behavioral change.

3. Japan's future direction for harmonization of vehicle regulations

Japan would like to:

- Make a major contribution to the development of following ECE Regulations and gtrs
 - + ECE Regulations: AEBS, LDWS, ELSA, etc.
 - + gtrs: Head Restraints, HFCV, WLTP, Pedestrian Protection, etc.
- Contribute to the promotion of activities for building up the common understandings on new technologies for safety and environment through activities like the one by ITS Informal Group.

4. Japan's future direction for contribution to WP29 activity

Japan would like to:

- Strengthen its support activities for Asian countries to actively engage in WP29 activity;
- Make proposals for implementation of necessary work for establishing the common bases of international whole vehicle type approval (IWVTA) .

5. Proposal for implementation of necessary work for establishing the common bases of IWVTA

Purpose of the proposal

- ✚ To aim, in the future, to upgrade the current mutual recognition of approvals, which only covers vehicle equipment and parts, to the one that covers a whole vehicle, through realization of mutual recognition of International Whole Vehicle Type Approval (IWVTA)
- ✚ To establish, keeping in this assumed goal, the common bases regarding basic elements necessary for establishing the IWVTA.

5. Proposal for implementation of necessary work for establishing the common bases of IWVTA

Benefits of Establishment of Mutual Recognition of IWVTA

If the mutual recognition of vehicle type approval (including all technical requirements on a whole vehicle) is established under the UN,

- (1) Benefits from harmonizing regulations, while maintaining road safety and environmental protection, will increase, further promoting Contracting Parties' activities for harmonizing regulations related to vehicle construction and equipment, etc.
- (2) It will serve as a model system that would help the aligned vehicle type approval system to be established around the world and accelerate the activities for realization of mutual recognition system based on the type approval.

Government (G)

- ◆ Through harmonization, advance safety and environmental regulations will be implemented internationally.
- ◆ Testing and approval procedures will be streamlined.
- ◆ Establishment of vehicle type approval system in developing countries, etc. will be facilitated.

Industry (I)

- ◆ Costs and man-hours required by differing development and certification procedures for complying with regulations of each product destination will be reduced.
- ◆ Resource can be spared for development of improved safety and environmental technologies.

User

Wider availability of safer, more environmentally-friendly vehicles with reasonable prices

Realization of sustainable mobility society

*Beneficial for both G and I.
*Should be realized through G-I collaboration.

6. Final thoughts

- The role of WP29 in further promotion of the international harmonization activities would become more and more important internationally.
- Japan expects for WP29:
 - ✚ to make further progress as a forum addressing international harmonization of vehicle regulations where countries all over the world literally participate in its activities, through further expansion of CPs to the Agreements, activities towards the establishment of IWVTA system, etc;
 - ✚ its initiative on the worldwide dissemination of safer and more environmentally friendly vehicles using new technologies.

Thank you for your attention.



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