



Process of developing measures related to vehicle safety and environmental protection

The Public and private joint Forum in Asian Region

8th December 2021



Outline

- 1. THAILAND's Overview of Road Safety**
- 2. Current National Regulations**
- 3. DLT Safety Regulation's Enforcement plan**
- 4. Other Measure**



1. THAILAND's Overview of Road Safety

Thailand issued the cabinet resolution
“The Strategic Map for the Decade of Action for Road Safety 2011–2020.”

An Executive Order “Prevention and Reduction of Road Accidents
2011” from the Prime Minister’s Office

Establishment of The Road Safety Directing Centre

Six Sub-Committees were established
under the Centre’s orders

1. Road Safety
Management

2. Safer
Road

3. Safer
Vehicle

4. Safer
Road User

5. Post-
crash Care


6. Data
System

1. THAILAND's Overview of Road Safety

- 12 Global Road Safety Performance Targets

TARGET 1 | 2020 

Target 1: By 2020, all countries establish a comprehensive multisectoral national road safety action plan with time-bound targets.

TARGET 2 | 2030 

Target 2: By 2030, all countries accede to one or more of the core road safety-related UN legal instruments.

TARGET 3 | 2030 


Target 3: By 2030, all new roads achieve technical standards for all road users that take into account road safety, or meet a three star rating or better.

TARGET 4 | 2030 

Target 4: By 2030, more than 75% of travel on existing roads is on roads that meet technical standards for all road users that take into account road safety.

TARGET 5 | 2030 

Target 5: By 2030, 100% of new (defined as produced, sold or imported) and used vehicles meet high quality safety standards, such as the recommended priority UN Regulations, Global Technical Regulations, or equivalent recognized national performance requirements.

TARGET 6 | 2030 


Target 6: By 2030, halve the proportion of vehicles travelling over the posted speed limit and achieve a reduction in speed-related injuries and fatalities.

TARGET 7 | 2030 

Target 7: By 2030, increase the proportion of motorcycle riders correctly using standard helmets to close to 100%.

TARGET 8 | 2030 

Target 8: By 2030, increase the proportion of motor vehicle occupants using safety belts or standard child restraint systems to close to 100%.

TARGET 9 | 2030 

Target 9: By 2030, halve the number of road traffic injuries and fatalities related to drivers using alcohol, and/or achieve a reduction in those related to other psychoactive substances.

TARGET 10 | 2030 

Target 10: By 2030, all countries have national laws to restrict or prohibit the use of mobile phones while driving.

TARGET 11 | 2030 

Target 11: By 2030, all countries to enact regulation for driving time and rest periods for professional drivers, and/or accede to international/regional regulation in this area.

TARGET 12 | 2030 

Target 12: By 2030, all countries establish and achieve national targets in order to minimize the time interval between road traffic crash and the provision of first professional emergency care.

1. THAILAND's Overview of Road Safety

Target 5 responsible by Safer Vehicle Sub-Committee

- ❑ Main responsibilities and goals
 - To **improve vehicle standards** on both active and passive safety
 - To improve the vehicle inspection on both safety and environmental standards
 - Promote the utilization of advance safety technology in vehicles
 - Establish the task force according to Subcommittee's order
 - Perform other tasks as assigned.

DLT, as the secretariats of Safer Vehicle Sub-Committee, have authority to issue the policy for vehicle safety as a requirement of vehicle registration



TARGET 5 2030

Target 5: By 2030, 100% of new (defined as produced, sold or imported) and used vehicles meet high quality safety standards, such as the recommended priority UN Regulations, Global Technical Regulations, or equivalent recognized national performance requirements.

2. Current National Regulations

Goal = Internationalization of Vehicle Safety Regulations



UN Regulations

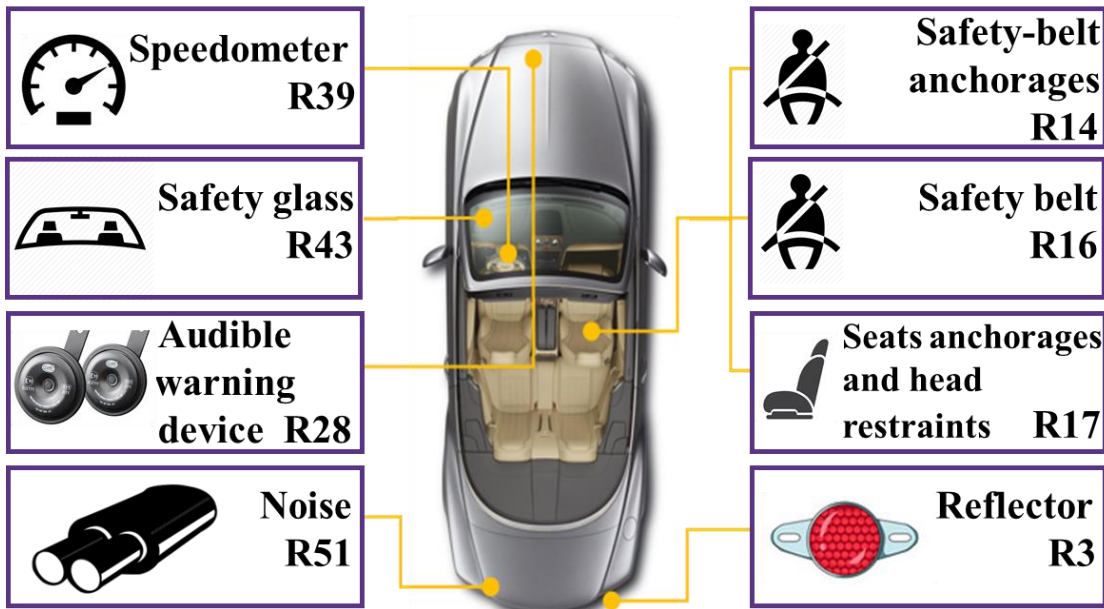


DLT Regulations

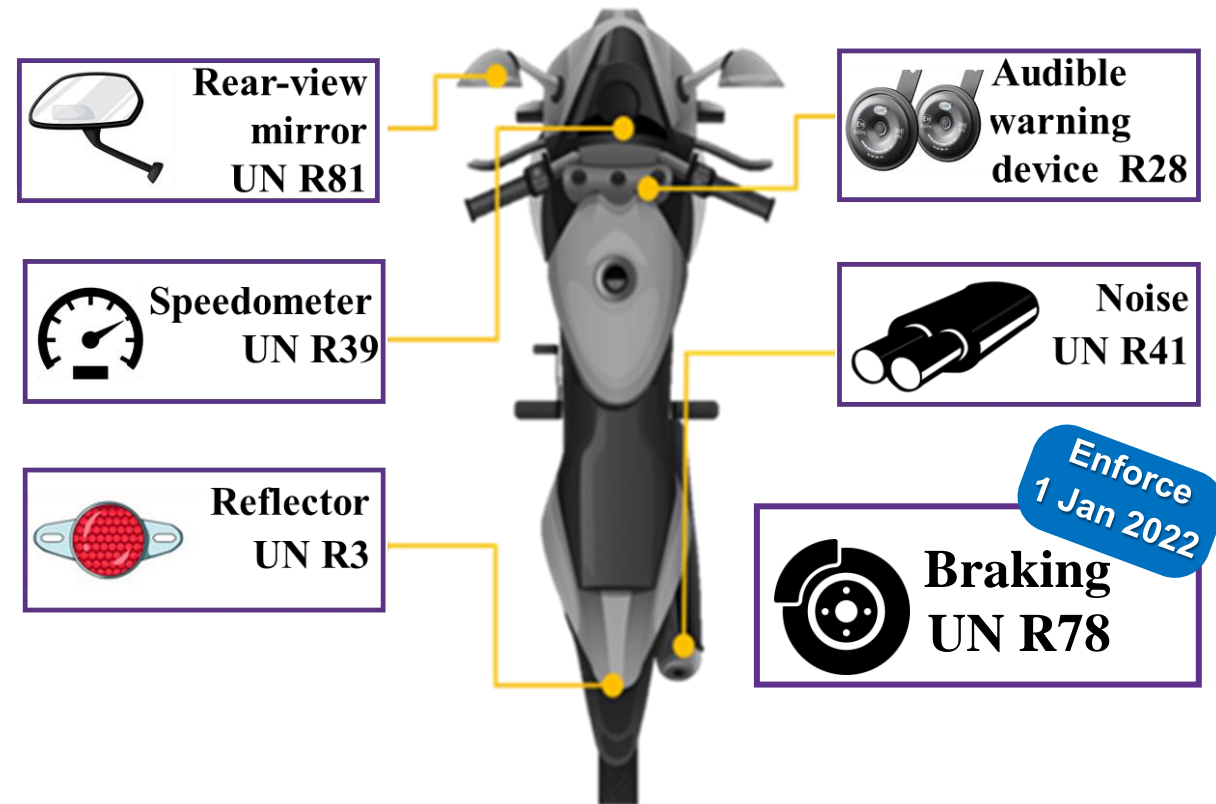


Safer Vehicles

M1 N1 : Enforced



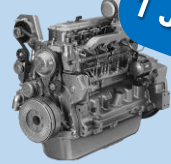
L3 : Enforced



2. Current National Regulations

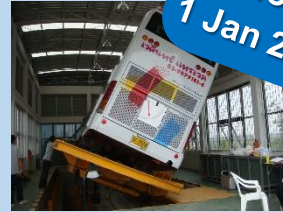


Safety Regulations for Bus



Enforce
1 Jan 2010

Measurement of
the net power
(UN R 85)



Enforce
1 Jan 2013

Large Bus Stability
Test



Enforce
29 Oct 2014

Tempered Glass as
addition Emergency Exit



Enforce
25 Jan 2016

GPS Installation
on all Public Buses



Enforce
19 Mar 2017

Height Restriction of 4.00 m
for Double Decker Bus



Enforce
1 Jan 2018

Retro-Reflective
Installation (UN R104)



Enforce
1 Jan 2020

Seat Strength, Seat Belt
Anchorage (UN R14,17, 80)



Enforce
1 Jul 2022

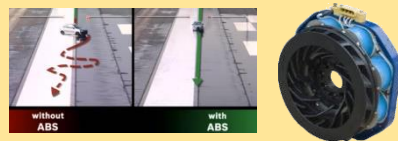
Burning Behaviour
of Interior Material
(UN R118)



Enforce
1 Jan 2023

Strength of Bus Super
Structure (UN R66)

Safety Regulations Under Drafting and Studies



ABS and Endurance
Braking System (UN R13)



Installation of
Indirect Vision for Large
Vehicles (UN R46)



Check and
Maintenance of Vehicle

2. Current National Regulations

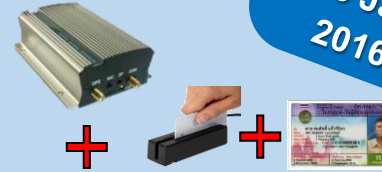


Safety Regulations for Trucks



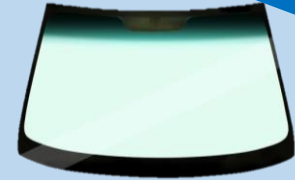
Measurement of the net power (UN R 85)

Enforce 1 Jan 2010



GPS Installation on 10W-Truck and Tractor

Enforce 25 Jan 2016



Safety glazing

Enforce 29 Oct 2014



Retro-Reflective Installation (UN R104)

Enforce 1 Jan 2018



Coupling Device (UN R55)

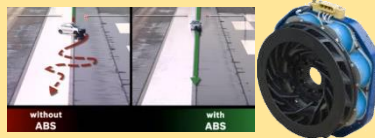
Enforce 1 Jan 2019



Twist-Lock for Container Carrier

Enforce 1 Apr 2020

Safety Regulations Under Drafting and Studies



ABS and Endurance Braking System (UN R13)



Underrun protective devices RUPD, LPD (UN R58, 73)



Check and Maintenance of Vehicle



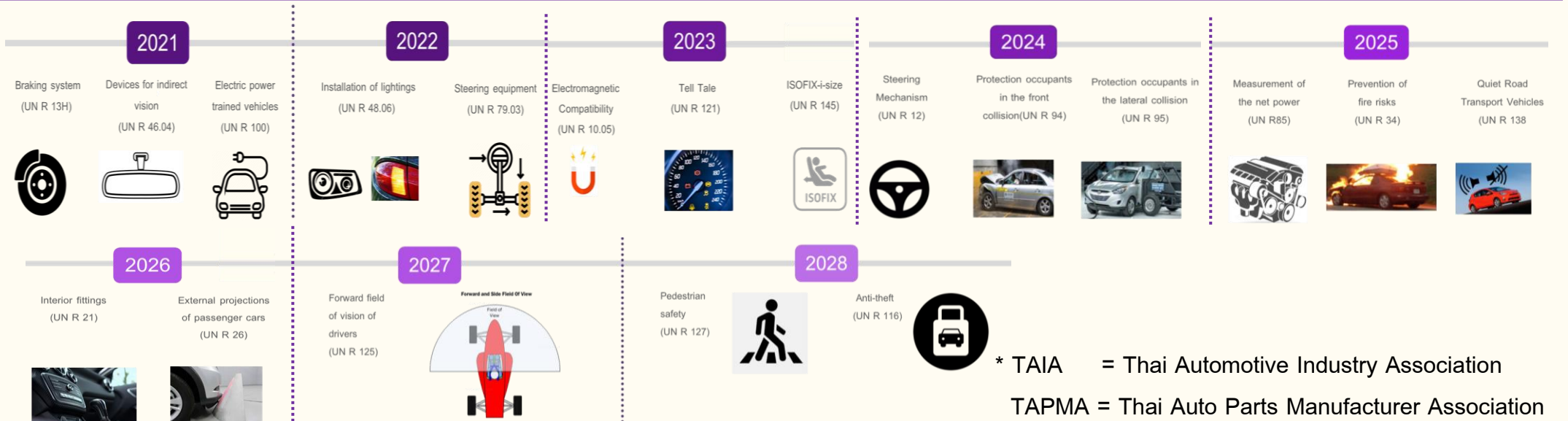
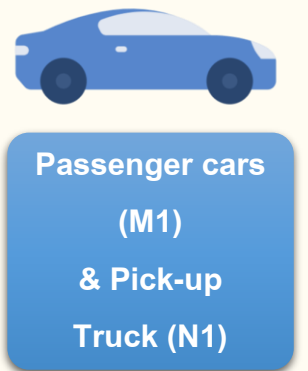
Installation of Indirect Vision for Large Vehicles (UN R46)



Dangerous Goods Vehicle Standard (ADR)

3. DLT Safety Regulation's Enforcement plan

The DLT-TAIA-TAPMA Working Group had agreed on the DLT Safety Regulation's Enforcement plan on the WG meeting on 28th April 2021



* TAIA = Thai Automotive Industry Association
TAPMA = Thai Auto Parts Manufacturer Association

3. DLT Safety Regulation's Enforcement plan

Bus



2023

WMI/ VIN Number
(ISO3779 / ISO3780)



Prevention of
Fire Risk
(UN R 34)



Electric Powertrain Vehicle
(UN R 100)



Braking System (ESC)
(UN R 13)



2024

Installation of
Lighting and Light-
Signaling Devices
(UN R 48)



Retro-Reflective
Device
(UN R 3)



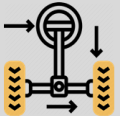
2025

General Construction of Large
Buses and Coaches
(UN R 36, 52, 107)

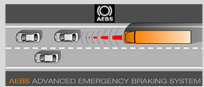


2026

Steering Equipment
(UN R 79)



Advance Emergency
Braking System
(UN R 131)



Speedometer
(UN R 39)



2027

Audible Warning
Device
(UN R 28)



Noise
(UN R 51)



2028

Tell Tale
(UN R 121)



Truck



2023

WMI / VIN Number
(ISO3779 / ISO3780)



Prevention of
Fire Risk
(UN R 34)



Rear Marking Plate
for Heavy and Long
(UN R 70)



Braking System (ESC)
(UN R 13)



2024

Installation of Lighting
and Light-Signaling
Devices
(UN R 48)



Retro-Reflective
Device
(UN R 3)



2025

ADR Vehicle Rollover
Stability Test
(UN R 111)



2026

Steering
equipment
(UN R 79)



Advance Emergency
Braking System
(UN R 131)



External
Projections
(UN R 61)



Cabs of
Commercial
Vehicle
(UN R 29)



Speedometer
(UN R 39)



2027

Audible Warning
Device
(UN R 28)



Noise
(UN R 51)



2028

Tell Tale
(UN R 121)



FUPD
(UN R 93)



3. DLT Safety Regulation's Enforcement plan

The revision of DLT Safety Regulation's Enforcement plan as a result from the 1st Safer Vehicle Sub-committee Meeting

- ❑ The DLT Notification Plan was proposed to the Safer Vehicle Sub-Committee in the 1st meeting in 16th September, 2021
- ❑ The plan was to be revised to be “toward the more prominent regulation active and passive safety oriented”
- ❑ The Sub-Committee agreed to set up the Task Force to revise the Vehicle Regulations Enforcement plan to be according to the Sub-Committee direction
- ❑ **TF should finalised the revised DLT Enforcement plan by January 2022**



4. Other Measures

DLT Notification on Maintenance of Commercial Vehicle



- Vehicle according to LTA requires a preventive maintenance to maintain vehicle in good condition. Vehicle body and structure should be strength and safely to use.
- The DLT Notification is in the process of MOT Approval, expected to be enforce by January 2022

The study of rules and procedures on Electric Vehicle Inspection



- Ensure electrical safety of users and equipment
- Reduce the accident caused by electrical Failure
- To process the draft of DLT notifications on rules and procedures of Electric Vehicle Inspection

The study of motorcycle safety standards



- Motorcycle-related fatalities and serious injuries comprise a high proportion of road trauma in Thailand
- Investigation of international standards related to active/passive safety of motorcycle parts/system and procedures for motorcycle inspection.
- Reduce the accident caused by vehicle with non-standard parts/systems





Department of Land Transport

