

Information on mandatory fitting of advanced safety systems in Japan

Engineering Policy Division

Road Transport Bureau

MLIT Japan

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- Introduction
- Mandatory fitting of advanced brake systems for motorcycles
- Mandatory fitting of Lane Departure Warning Systems for heavy duty vehicles

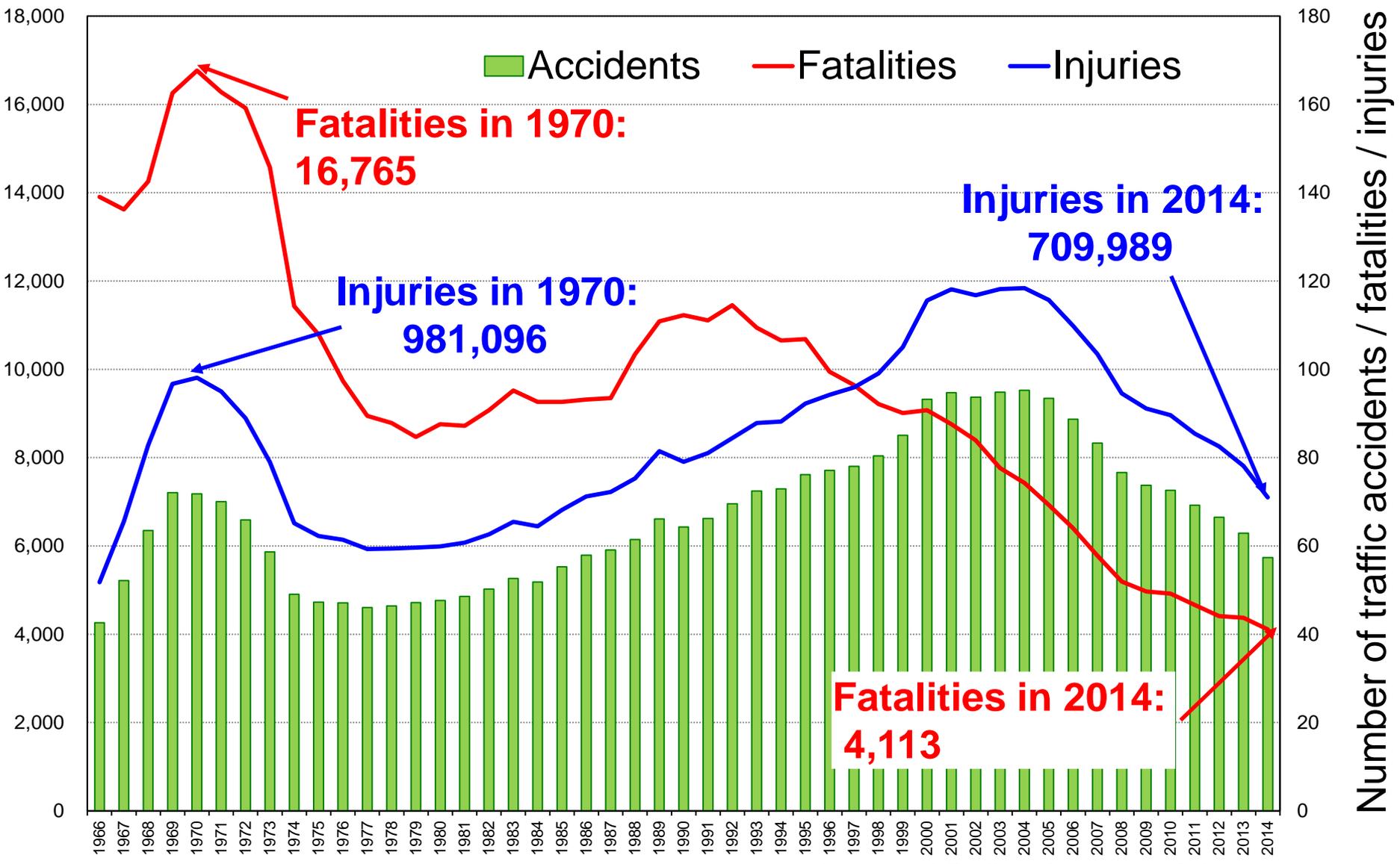


Introduction

- In Japan, the number of traffic accident fatalities is 4,113 in 2014. It is difficult to achieve the target of our government “Reduce the fatalities by traffic accidents to less than 2,500 by the year 2018”.
- Therefore additional vehicle safety measures are needed.
- Specifically,
 - Motorcycles: In Japan, while the number of fatalities on four-wheel vehicles has decreased by 52% from 10 years ago, the number of fatalities on two-wheel vehicles* has decreased by only 38%. Furthermore the number of fatalities per two-wheel vehicles is 4.7 times that of per four-wheel vehicles in 2013.
 - Heavy duty vehicles: Many heavy duty vehicles cause critical accidents on highways. The damages of accidents caused by heavy duty vehicles are more serious than others.
- In terms of the above mentioned, MLIT published new national regulations for mandatory fitting of ABS/CBS for motorcycles and LDWS for heavy duty vehicles, in line with the technical requirements in UN regulations.

*Moped (type 1) are excluded.

Introduction –Traffic accidents in Japan-



(National Police Agency of Japan)

Mandatory fitting of advanced brake systems* for motorcycles

*Advanced brake systems: Anti-lock Brake Systems (ABS) and Combined Brake Systems (CBS)

- Scope

- Motorcycles* ($125\text{cm}^3 < \text{engine capacity}$)
- Mopeds (type 2) ($50\text{cm}^3 < \text{engine capacity} \leq 125\text{cm}^3$)

*Enduro and Trial motorcycles are excluded.

- Effective dates

- New types: October 2018
- All new vehicles: October 2021

(Issued: January 22 2015)

Category	Engine Capacity: c[cm ³]	Example	Technical inspection	Highway	License
Motorcycle (normal)	400 < c		Yes	Yes	Large
	250 < c ≤ 400	 <small>Photo: CB400 SUPER FOUR</small>			Normal
Motorcycle (light)	125 < c ≤ 250		No	No	Small
Moped (type 2)	50 < c ≤ 125				
Moped (type 1)	c ≤ 50	 <small>スーパ-2750</small>			

- Requirements

Category	Mandatory fitting
Motorcycle (normal)	ABS*
Motorcycle (light)	
Moped (type 2)	ABS* or CBS*
Moped (type 1)	-

* ABS and CBS shall meet performance requirements in UN regulation No. 78.

- Estimation by Government of Japan

194 people at most can be saved annually by mandatory fitting of advanced brake systems for motorcycles.

Mandatory fitting of Lane Departure Warning Systems for heavy duty vehicles

- Scope
 - M2*, M3*, N2, N3
 - *Coach only.



- Requirements
 - Vehicles shall be equipped with Lane Departure Warning Systems (LDWS) in accordance with UN regulation No. 130.
- Estimation by Government of Japan

125 people at most can be saved annually if all vehicles fit LDWS.

- Effective dates*

(Issued: January 22 2015)

		New types	All new vehicles
M2	-5t	Nov. 2019	Nov. 2021
M3	5-12t	Nov. 2019	Nov. 2021
	12t-	Nov. 2017	Nov. 2019
N2	3.5-8t	Nov. 2019	Nov. 2021
	8-12t	Nov. 2018	Nov. 2021
N3	12-20t	Nov. 2018	Nov. 2021
	20-22t	Nov. 2018	Nov. 2020
	22t-	Nov. 2017	Nov. 2019
	13t- (Tractor)	Nov. 2018	Nov. 2020

*On the same dates, mandatory fitting of Advanced Emergency Brake Systems (AEBS) 01 series will be come into force in Japan.

Heavy vehicles –Effective dates (2)-

 : New types (Europe)*

 : New types (Japan)

 : All new vehicles (Europe)*

 : All new vehicles (Japan)

		' 13	' 14	' 15	' 16	' 17	' 18	' 19	' 20	' 21	' 22
M2	-5t										
M3	5-12t										
	12t-										
N2	3.5-8t										
	Tractor										
	8-12t										
N3	12-20t										
	20-22t										
	22t-										
	13t- (Tractor)										

* Vehicles without air suspension in Europe: (New types) Nov. 2016, (All new vehicle) Nov. 2018

Thank you for your attention!

More Information?

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