# Proposal to Enhance Vehicle Safety for VRUs 

## MLIT, Japan

## Contents

1. Background
2. Proposal (Our Priority)
3. Next Step

## Traffic Accidents and Governmental Target



## Japan's Vehicle Safety Policy regarding VRUs

## Motor Vehicle Safety Policy (from FY2016 to FY2020) [June 24 ${ }^{\text {th }}$ 2016]

- Safety Measures for Child and Elderly Person
- Safety Measures for Pedestrian and Cyclist

To improve awareness of VRUs (pedestrian and cyclist) for drivers e.g. AEBS, Advanced light system, Night-time pedestrian warning, Driver's visibility around vehicle

## Emergency Measures for Elderly Drivers and Children

 [June 18 ${ }^{\text {th }}$ 2019]- Countermeasures for car accidents involving elderly drivers and death of children
- Promotion of Safety Support Car
- Introduction of new driver's license system limiting vehicle type
- Pedestrians account for $35.6 \%(1,258)$ of total fatalities. (If includes cyclists, up to $48.4 \%(1,711)$.)
- More than half of pedestrian fatalities are elderly persons (Age 65+).



## Car(below 20km/h)-to-Pedestrian Injuries and Fatalities Japan case

- M1/N1 contributes to more than half of total fatalities and injuries among pedestrians, at low speed (below $20 \mathrm{~km} / \mathrm{h}$ ).


[^0]$\square$ M1 and N1
Number of Injuries: 135,932
Number of fatalities: 998

## CtoP Injury and Fatality Composition by Vehicle Motion (M1/N1, Forward motion below 20km/h)

## Injuries

## Fatalities



Source: Road traffic accident statics from 2014 to 2018 (5-year-accumulation) (ITARDA)
Number of Injuries: 125,471 Number of fatalities:736 (*excluding other hitting points)

## CtoP Injury and Fatality Composition by Hitting Position (M1/N1, Moving off/Going straight below 20km/h)

## Injuries

Fatalities


Source: Road traffic accident statics from 2014 to 2018 (5-year-accumulation) (ITARDA) Number of Injuries: 15,939 Number of fatalities: 104 (*excluding other hitting points)

## CtoP Injury and Fatality Composition by Hitting Position (M1/N1, Turning right below 20km/h)

## Injuries



## Fatalities



## CtoP Injury and Fatality Composition by Hitting Position (M1/N1, Turning left below 20km/h)

## Injuries



## Fatalities



## Proposal (Our Priority)

## Scope: M1 and N1

Vehicle Motion: Moving off, Going straight (may include Turing left) (*Maximum operational speed: $20 \mathrm{~km} / \mathrm{h}$ )

Detection Target: Pedestrians (may include cyclists)

Required Performance: Driver's vision around the vehicle (especially front and passenger-side direction)

Advanced technology to provide awareness for drivers

## Next step

- At this IWG, MLIT provided information of the necessity to enhance driver's awareness of VRUs by focusing on M1/N1's accidentology.
- If CPs and other stakeholders kindly support it, we would like to proceed the discussion on drafting the forward motion of M1/N1.
- Japan welcomes comments from CPs and stakeholders.

Thank you for your attention.


[^0]:    Source: Road traffic accident statics from 2014 to 2018 (5-year-accumulation) (ITARDA)

