

ASEAN Automobile Safety Forum 2018/10



15th November 2018 Karawang, West Java, Indonesia









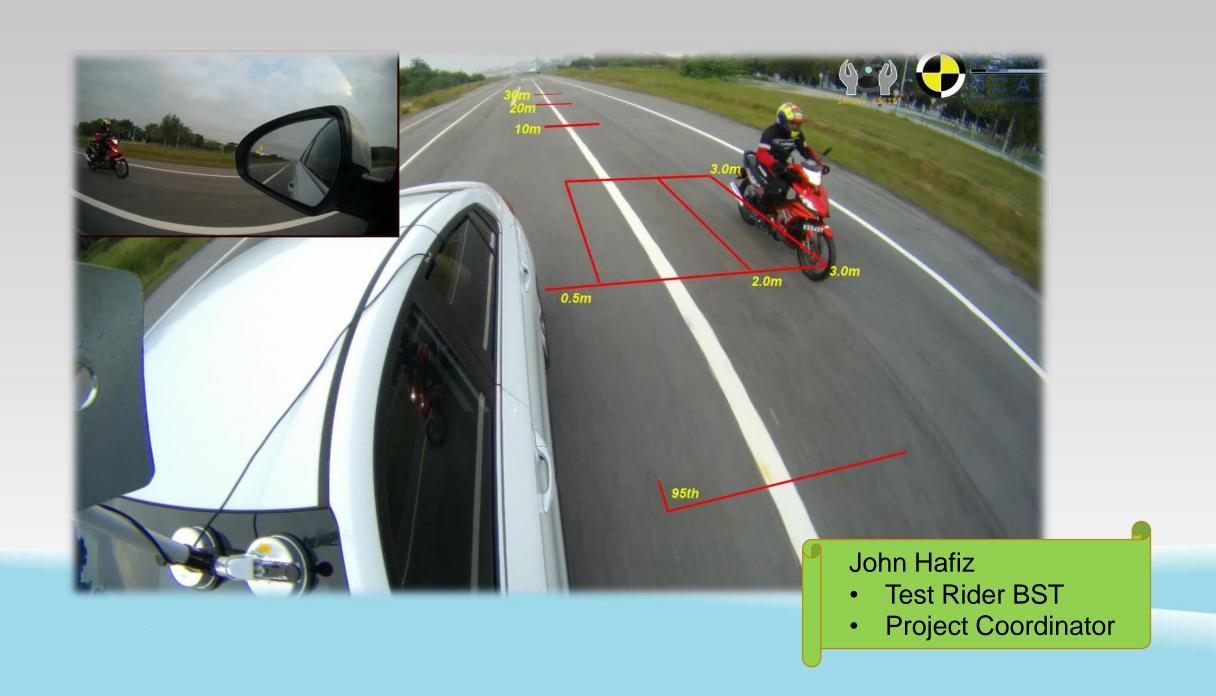












N1-Vehicle category - Small truck lorry safety -



AASF 2018/10 15th November 2018 Karawang, West Java, Indonesia

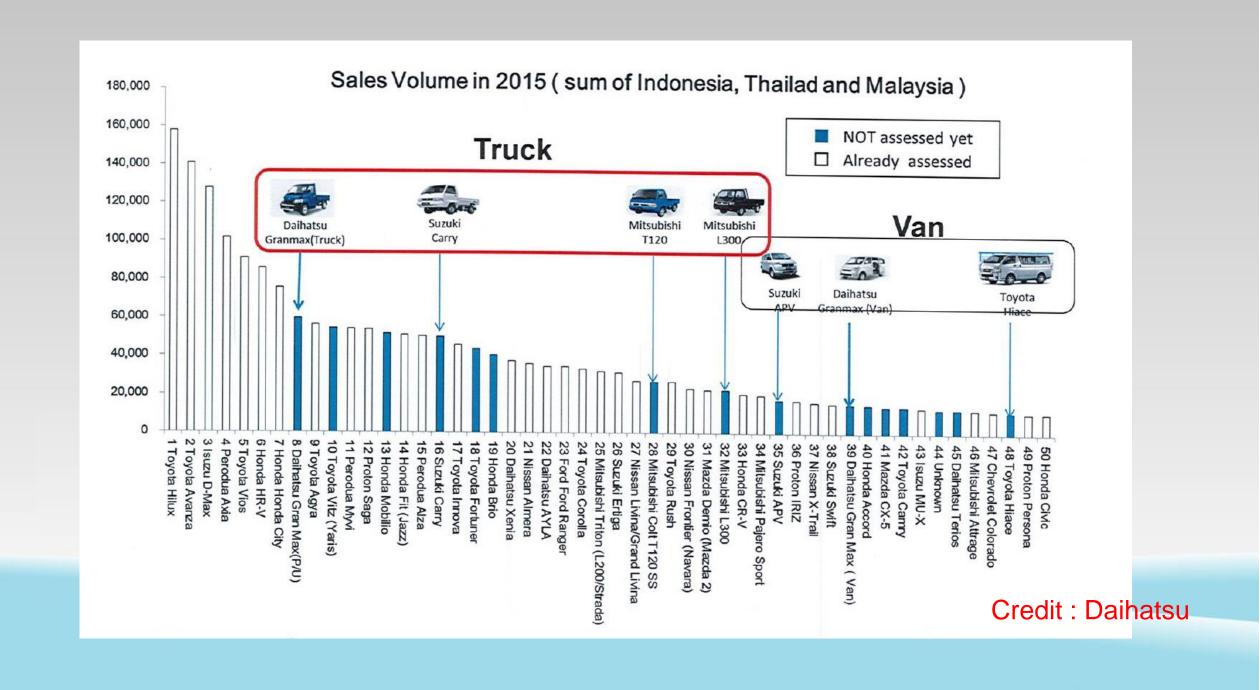
Commercial vehicles produced in ASIA, 2017



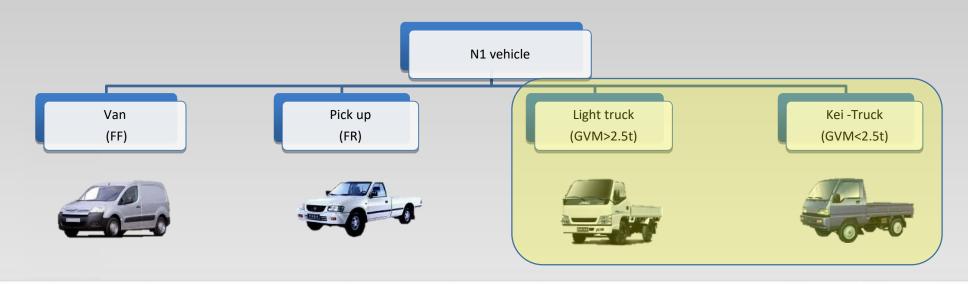
BESTSELLING NEW CARS ACROSS THE ASEAN 2017



Suzuki has opened a factory in Myanmar in 2017 and produced 2,700 Suzuki Carry trucks, of which about 1,000 units were sold in the domestic market.



What is N1 category vehicle?



CATEGORY: N

Category N - Power-driven vehicles having at least four wheels and for the carriage of goods

ategory	Vehicle Description
N1	Vehicles for the carriage of goods and having a maximum mass not exceeding 3.5 tonnes
N2	Vehicles for the carriage of goods and having a maximum mass exceeding 3.5 tonnes but not exceeding 12 tonnes
N3	Vehicles for the carriage of goods and having a maximum mass exceeding 12 tonnes



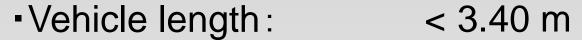
MTSUBISHIN

What is Kei-Truck?

'tiny/mini'



Limited specification



• Vehicle width:

• Vehicle height: < 2.00 m</p>

•Engine displacement: < 660 cc

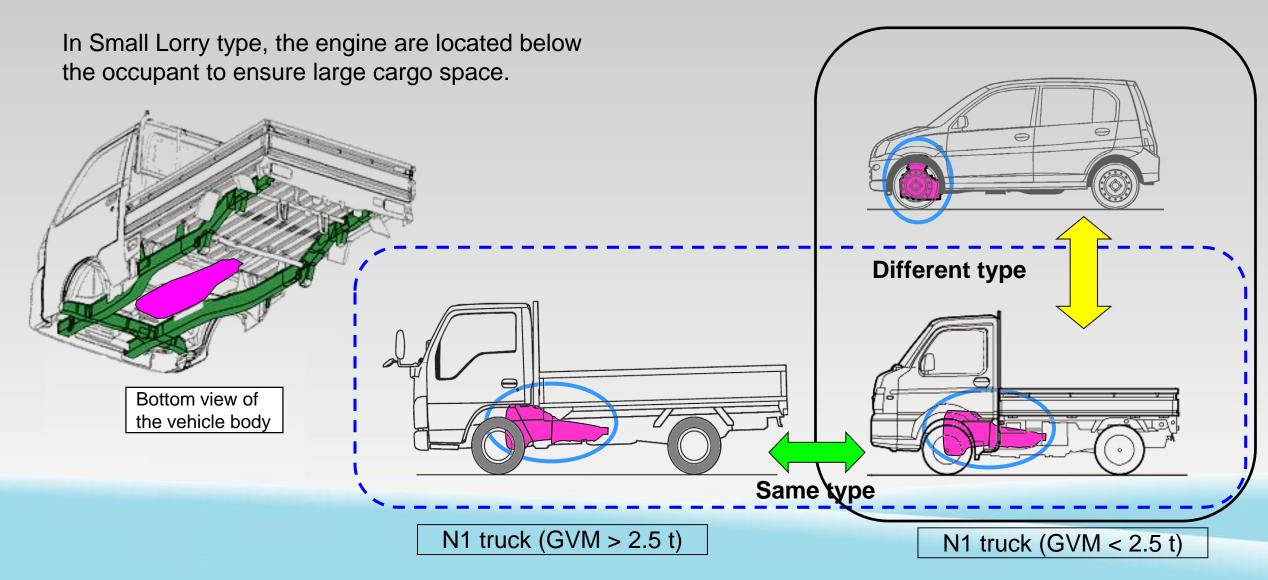








Why the engine location different?



Source: http://www.jasic.org

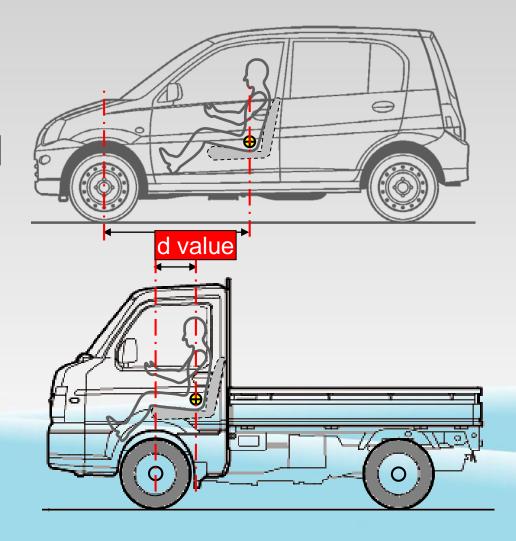
Longitudinal distance

d value: Longitudinal distance between the hip point (R-point) on the driver's seat and the center of the front axle

Passenger Vehicle

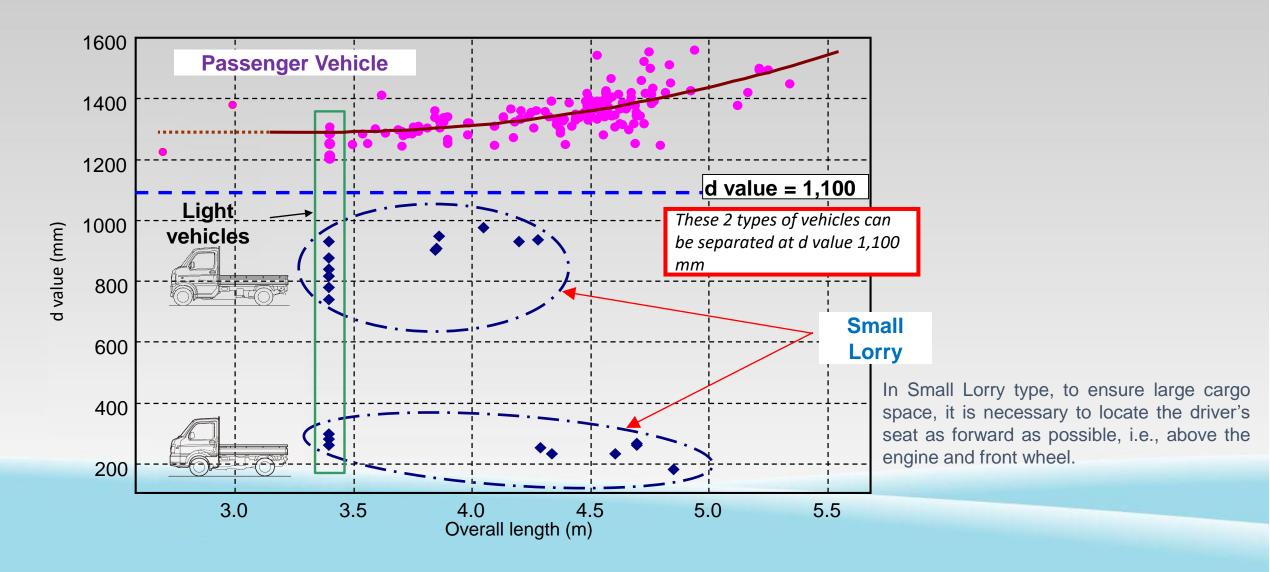
Therefore, d value, which expresses the positional relation between occupant and front tyre can be used to classify these two vehicles.

Small Lorry



Source: http://www.jasic.org

d-Value comparison

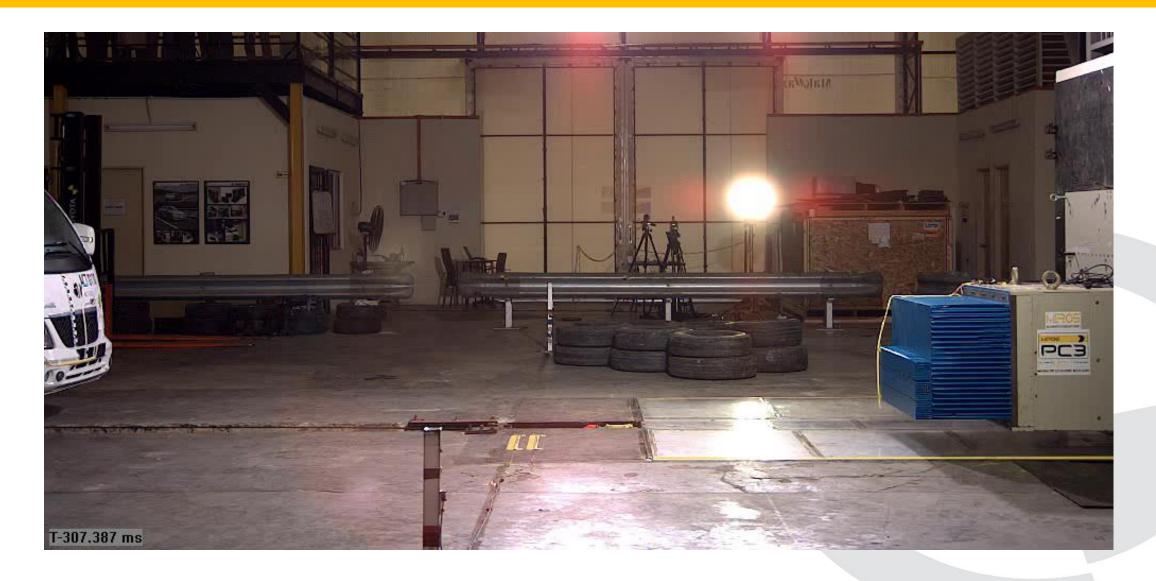


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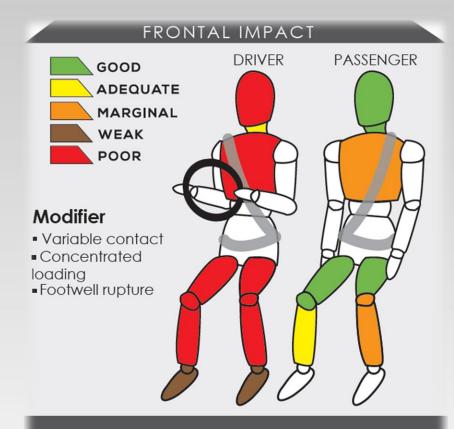


Frontal Offset Crash Test



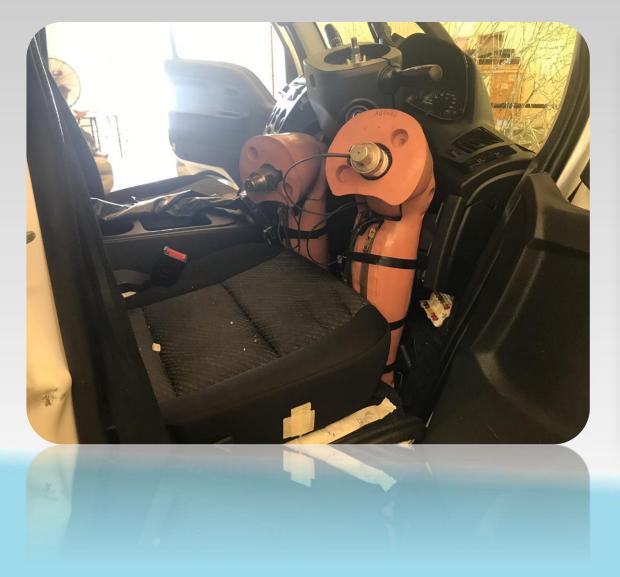
Post-crash test image; Frontal Offset 64KM/H





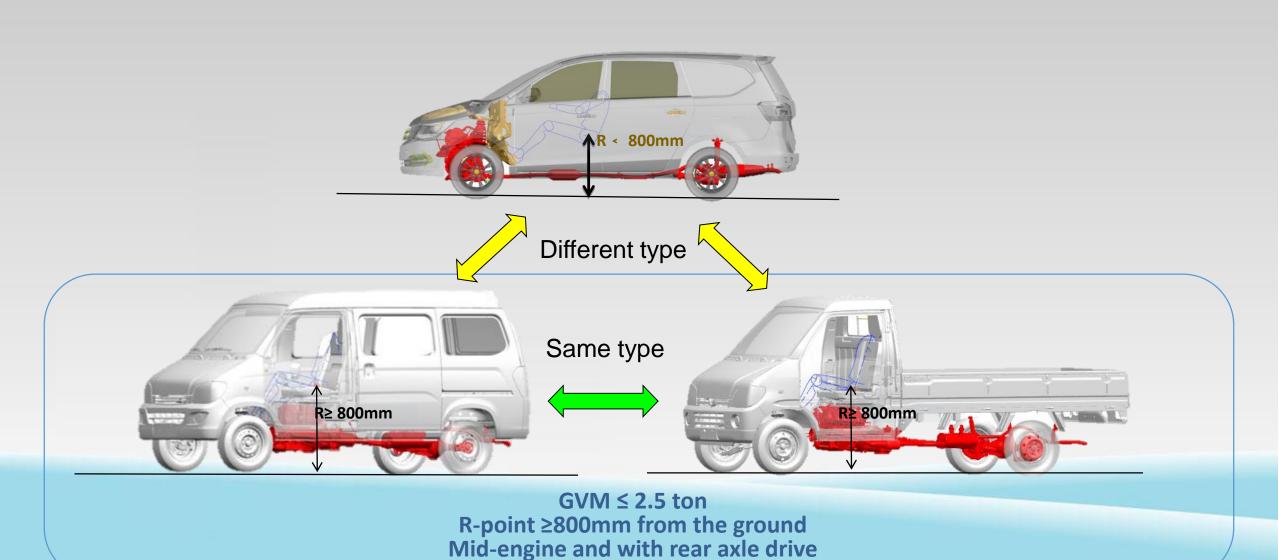
In the frontal impact test, the driver sustained severe injury to the whole body. The front passenger only had marginal protection to its chest with possibility of serious injury to the lower legs in a real world crash.

Dummy injury of frontal crash test





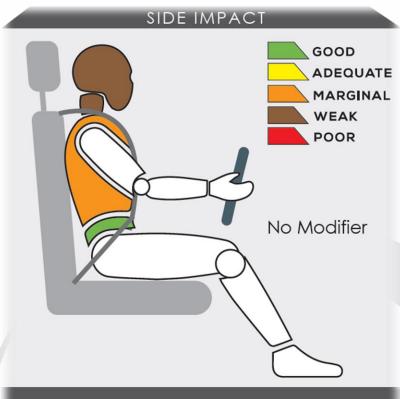
Vertical distance from ground





Side Impact Crash Test





Dummy readings in the side impact test showed weak protection to the driver's head. In addition, the chest too faced slightly similar result in this impact test.

ASEAN NCAP small lorry crash test









Malaysia: Food-Truck fever





It is estimated in the year 2016, there are an estimated 70 modern food trucks in the Klang Valley alone, with an average of **five** food trucks opening each month.

Songthaew in Thailand & Angkot in Indonesia

'the two bench seats fixed along either side of the back of the truck' Has been used in Thailand, Laos and Indonesia as a share taxi.





Real life accident



Vietnam: Overloaded always OK?

In Vietnam, truck overloading used to be a common problem on the country's roads, as drivers can earn more money by loading more cargos and making fewer trips.







We are observing you!!

Please help us in making our road more safer.

Thank you.

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