

Safer Cars for ASEAN Region

INTRODUCTION TO HEATSTROKE IN REAR SEATS

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On our 7th Years

New Car Assessment Program for Southeast Asia region (ASEAN NCAP) has been established since 8th December 2011 on MOU Signing between Global NCAP and MIROS in New Delhi, India.



#	year	Countries	#	year	Countries
1	1959	USA	6	1999	South Korea
2	1978	USA	7	2006	China
3	1991	Japan	8	2010	South America
4	1992	Australia & New Zealand	9	2011	Southeast Asian countries
5	1997	FRA, GER, ITA, ESP, SWE, NED, UK (EU)			





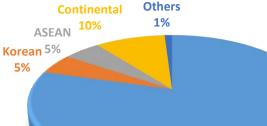
Summary of Achievements

- How many cars have been tested?
 - > To date
 - > 79 models & variants
 - **100** ratings
- How many brands?
 - **>** 23
 - ➤ All Japanese brands have been tested.
 - ➤ 17 brands from Top 20 ASEAN brands (left out BMW, Mercedes & Hino)





ASEAN MARKET



Japanese 79%

- What is the market coverage?
 - ➢ By End of 2017
 - Complete Top 30 models
 - ➤ **46** models from Top 60
 - ➤ 90% market share
 - ➤ 9 out of 10 car sold in ASEAN Region rated with ASEAN NCAP.
 - **> 96%** is 4-star & above



Current Test & Assessments

Safer Cars for ASEAN Region

50%

25%

25%

ADULT OCCUPANT PROTECTION



Starting from 2017 until 2020, instead of a separate rating for AOP and CDP, a single rating system is introduced in which AOP contributes 50% of the overall rating with a maximum 36 points from three main assessments: offset frontal, side impact and HPT evaluation.

The test protocol for offset frontal test remains the same except for the inclusion of Q dummies replacing the existing P dummies. On the other hand, the requirement for side impact test has improved considerably from a legislation test (UN R95) to a more comprehensive test.

In addition, realizing the need to further improve the safety of occupants from side impacts, ASEAN NCAL has introduced additional requirement on the fitment of HPT in which the score is based on Fitment Rating Sy tem (FRS). HPT can be other than an airbag, as long as it protects the head. However, for technologies other than conventional curtain or head airbags, manufacturer is requested to provide evidence that the system is effective, at least in principle, before a test can be allowed.

2012 - 2016 (AOP Single Rating)

Offset Frontal Test - Maximum score of 16

Compliance with UN R95
 4-Star & above (September 2013–2014)
 3-Star & above (2015–2016)

2017 - 2020 (50% of the Overall Rating)

Offset Frontal Test Maximum score of 16 Side Impact Test Maximum score of 16

MAXIMUM OF 36 POINTS

. The calculation is based on FRS with a maximum of 4

CHILD OCCUPANT PROTECTION



Protection for children in a vehicle is as important as adult protection. Currently ASEAN NCAP is separately rating adult and child.

Instead of a separate rating in 2012–2016 requirement, the new requirement for COP comprising 25% of the overall safety rating. This step is taken to ensure a vehicle receives the highest star award and also provides the best protection for the child.

Dynamic Assessment Dynamic Assessment

Frontal Impact	Head Chest Neck	P1.5 3 6 3	P3 6 6 N/A	Frontal Impact Side Impact	Head Chest Neck Head	Q1.5 4 2 2 4	Q3 4 2 2 4
CRS Based Assessment		(12 Poi	nts)	CRS Installation Assess	ment	(12 Po	ints)
CRS Marking CRS to Vehicle Interface		8 points 4 points		References List Assessn OEM Assessment	ment	10 po 2 poir	
Vehicle Based Assessment		(1)	3 Points)	Vehicle Based Assessme	ent	(13 Points)
Use of CRS on the Front Se Provision of Three-Points: Gabarit Assessment ISOFIX Integrated CRS		1; 2; 3;	points points points points	Provision of Three-point Gabarit Installation 2 Simultaneous Use Seat ISOFIX Usability Two or more Largest ISO	ing Positions		1 point 2 points 2 points 2 points 1 points

Furthermore, assessment method has been improved in the new protocol for dynamic assessment by introducing Q dummies replacing P dummies. Q dummy provides better biofidelic response compared to P dummy. In addition, side impact test assessment s been added to the dynamic assessment criteria. based assessment section has been replaced by stallation assessment. As for Vehicle Based not, there will be apparent changes which includes additional requirement on passenger airbag warning, marking and disabling. The list of the CRS required for the assessment is as follows.

Maxi Cosi Cabriofix Group O+/I/II Combi Malgot Combi Buon Junior Air

Passenger Airbag Warning Marking

Group [[/][[Britax Baby Safe Plus ISOffx Base Group O+ Maxi Cosi Milofix Group I Britax Duo Plus Group II/III Britax Parkway SGL Manufacturer Selection

Manufacturer Selection

SAFETY ASSIST



Promotion of Safety Assist Technologies (SATs) has become of the main pillars in the new road map 2017-2020.

It contributes 25° of the overall rating with a maximum of 18 points focusing on Effective Braking and Avoidance (EBA), SRR, BST and AG lanced SASs. This differs significantly from pervious requirement in which only ESC and frontal SBR systems are constant as the system of the system of the system of the system of the state of the system of the sys

Instead of only EC, ABS is also considered in the new road map under EBA. Based on ASEAN NCAP's observation, ABS nament or unity Eu., ADS is also considered in the new road map under EBA. Based on ASEAN INCAP's observation, ABS filtment rate in critain ASEAN contrives is still locking and it is still locking offered as optional rather than standard equipment. As an encouragement for vehicle manufacturers, incentive is given to those vehicles fitted with rear SBRs in addition to front I SBR. This is also part of ASEAN INCAP's mission to increase wearing rates among rear passengers beyond legislation approach.

Apart from that in vision to reduce the number of lane-changing/merging crashes especially involving motorcycles, ASEAN NCAP in roduces additional incentive for vehicle equipped with BST. This is part of ASEAN NCAP's strategic approaches in urbing the number of accidents and injuries involving motorcycles in the region. Furthermore, as a way forward for authomous vehicle initiative around the world and harmonization with other NCAPs, advanced SATs such as

2012 - 2016 (Prerequisite for 5-Star AOP)

Seathelt Reminder Driver Front Passenger

2017 — 2020 (25% of the Overall Rating)

Reminders Anti-lock Braking - Driver - Front Passenger Electronic Stability

maximum of 8 points

Technology

based on FRS with

a maximum of 6

Nearside
 Offside

AEB City AEB VRU Lane Departure Warning System Forward Collision Warning System A score of 1 point is awarded for each SAT

available in any variant (minimum 1 country for each sector) with a maximum

Integrated CRS

Advanced Safety Assist Technologies*

based on FRS with a maximum of 2 **MAXIMUM OF 18 POINTS**

*Manufacturers are encouraged to propose any Advanced SATs subject to ASEAN NCAP approval.



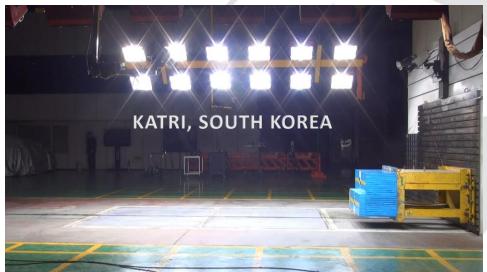
Mix of Results (from various crash testing facilities)









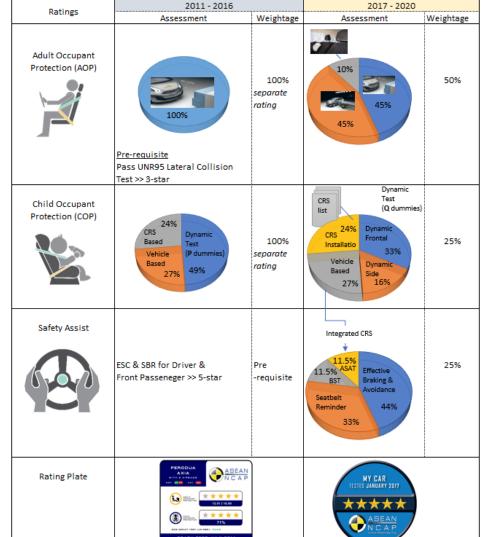


General inquiries: <u>aseancap@gmail.com</u>



Safer Cars for ASEAN Region

New Honda CR-V



*Dual Rating is possible







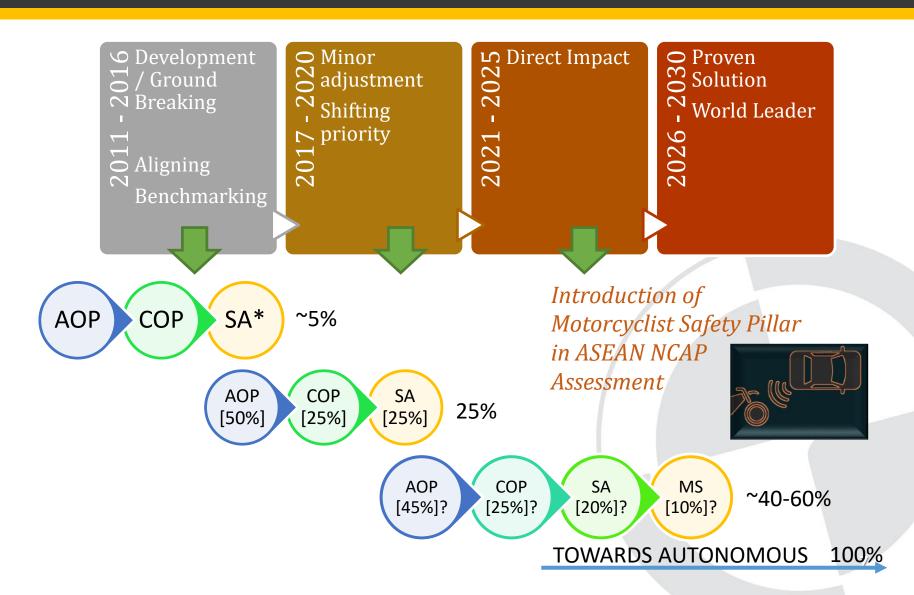


+ Grand Prix Awards Every 2 years
*Safety Performance
*Most Affordable 5-Star car in each
country.



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Roadmap 2021 - 2030





Summary Usage Percentage

Year/ Season	CNY		Aidilfitri		
	Before Ops %	During Ops %	Before Ops %	During Ops %	
2013	11.80	9.00	3.30	1.90	
2014	N/A	N/A	N/A	N/A	
2015	N/A	N/A	3.30	7.20	
2016	16.90	12.50	7.20	4.40	
2017	30.06	23.12	24.96	26.30	







Child Vehicular Heat Stroke Fact Sheet

 The most dangerous mistake a parent or caregiver can make is to think leaving a child alone in a vehicle <u>could never</u> happen to them or their family.

More than 50% cases, they <u>unknowingly</u> left them in the

vehicle.



- Rear facing car seats look the same whether there is baby in it or not
- Babies often fall asleep, becoming quiet.



Child Vehicular Heat Stroke Fact Sheet



VIDEO

LIVE

SHOWS

:::

Q

Hospital CEO Leaves Child to Die in Hot Car

By ABC NEWS July 5











Authorities in lowa are trying to decide whether to file charges against a hospital CEO whose 7-month-old daughter died after being accidentally left in a minivan while she rushed off to attend meetings.

The county medical examiner has ruled the death accidental, but prosecutors have yet to decide whether to charge Kari Engholm over the death of her daughter Clare.

Engholm left Clare in a minivan last month on a day when outside temperatures approached 90 degrees. Engholm was rushing to attend a series of meetings at Dallas County Hospital in Perry, Iowa.

Engholm's family, it seems, has forgiven her, calling the death a tragic mistake, the result of an overstressed woman who was used to her husband dropping the little girl off with the baby sitter.

"Kari is a loving mother and my best friend," her husband, Dennis, said at a memorial service for Clare last month. "She loved Clare deeply. She always remembers and celebrates our children's milestones."





- The inside of a vehicle heats up immediately
 - 125 degree in minutes
- 80% of the increase in temperature happens in the first 10 minutes.
- Children have died from heatstroke in cars in temperature as low as 60 degrees.



Potential Solutions

- ASEAN NCAP proposing new method to solve this problem by awarding points in future roadmap 2021 – 2030 for this new technology.
- Because
 - Our Child, Our Priority