

Informal document GRSP-53-18  
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agenda item 21(a))

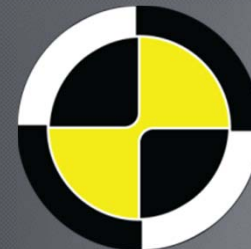
# Progress of ASEAN NCAP

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*Secretary General, ASEAN NCAP*

*14<sup>th</sup> May 2013,*

*GRSP 54<sup>th</sup>, Geneva*



ASEAN  
NCAP

# Agenda

1. Introduction to ASEAN NCAP
2. Overview of ASEAN NCAP Phase
3. ASEAN NCAP Organization Chart
4. ASEAN NCAP Phase 1 results
5. ASEAN NCAP Phase 2 updates
5. ASEAN NCAP Road Maps

Agenda 1:  
Introduction of  
ASEAN NCAP



## UN Decade of Action for Road Safety – May 11 2011

The Decade was approved by the Moscow Ministerial in 2009 and UN General Assembly in 2010. It was launched by a global relay of events on 11<sup>th</sup> May. A Plan for the Decade has been prepared based on five pillars:

1. Building Management Capacity
2. Encouraging Safer User Behaviour
3. Building Safer Roads
4. Building Safer Vehicles
5. Improving Post Crash Care

Each pillar includes indicative and interim targets to progress towards the Decade's overall goal which is to 'stabilize and then reduce the level of road fatalities'. This requires a 50% reduction in the forecast level of fatalities by 2020 which could avoid 5 million deaths, 50 million injuries and save \$3 trillion in social costs.





## Decade Plan - Influencing Vehicle Design



**Activity 1:** Encourage Member States to apply and promulgate motor vehicle safety standards as developed by the UN's World Forum for the Harmonization of Vehicle Regulations (WP 29).

**Activity 2:** Encourage implementation of new car assessment programmes in all world regions to increase the availability of consumer information about the safety performance of motor vehicles.

**Activity 3:** Encourage agreement to ensure that all new motor vehicles are equipped with seat belts and anchorages that meet regulatory requirements and pass applicable crash test standards (as minimum safety features)..

**Activity 4:** Encourage global deployment of crash avoidance technologies with proven effectiveness such as Electronic Stability Control and Anti Lock Braking systems in motorcycles.

**Activity 5:** Encourage use of fiscal and other incentives for motor vehicles that provide high levels of road user protection and discourage export of new and used cars that have reduced safety standards.

**Activity 6:** Sustain investment in research and development of safety technologies that will improve vehicle safety and reduce risks to vulnerable road users.

**Activity 7:** Encourage managers of governments and private sector fleets to purchase and maintain vehicles that offer advanced safety technologies and high levels of occupant protection.

# Progress of ASEAN NCAP

15<sup>th</sup> September 2011, Kuala Lumpur

- ASEAN NCAP Kick Off Meeting.
- Agreed to sign MOU between partners in 7<sup>th</sup> December 2011 in Delhi, India.
- Technical review and discussion of protocols.

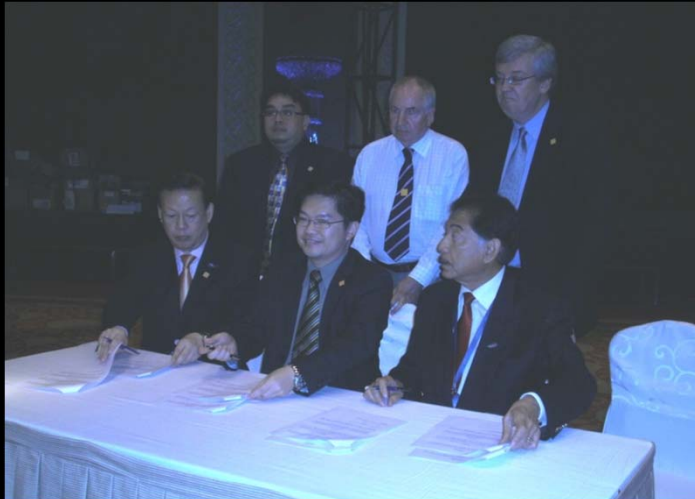




# Progress of ASEAN NCAP

7<sup>th</sup> ~ 8<sup>th</sup> December 2011

- MOU Signing between MIROS & GLOBAL NCAP on collaboration.
- MOU Signing between partners; MIROS, AAM, AAS, AAP, ANCAP & GLOBAL NCAP for ASEAN NCAP establishment





# Progress of ASEAN NCAP

23<sup>rd</sup> March 2012, Malacca, Malaysia

- 4<sup>th</sup> ASEAN NCAP Steering Committee
- Endorsing all related protocols including vehicle selection.
- First time attended by Indonesia (IMI), Thailand (TGGGS) & Vietnam (VR).
- Grant Agreement signing between Global NCAP & MIROS





# Progress of ASEAN NCAP

## Automotive Safety Week 2012: Southeast Asia – May 2012



### Dedicated International & National Meetings

- Global NCAP's Board of Trustees Meeting
- NHTSA – MOT Meeting
- World Car Manufacturer Meeting
- Global NCAP Roundtable with NCAPs
- PROTON Green Mobility Challenge Progress Meeting
- Society of Automotive Engineers (SAE) Student Convention



### Seminars

- **Parallel Sessions (ASW 2012: SEA)**
  - Active Safety
  - Automotive Safety
  - Road Safety
  - Passive Safety
  - Automotive Simulation
  - E-Mobility
- **Seminar (GNCAP)**
  - Consumer & Cars
  - A World Tour of NCAPs
  - Vehicle Safety in the UN Decade of Action 2010-2020



### Exhibitions & Demonstrations

- Proton
- Produa
- Toyota
- Puspakom
- Honda
- Bosch (ESC)
- Volvo
- Autoliv Horotaka
- JKJR
- PDRM
- Etc
  
- **Total Sponsor (25)**



### Launching & Award

- MIROS PC3 Lab
- **Crash Demonstration - ASEAN NCAP Test 001**
- MIROS Safety Awards
- GNCAP Annual Awards by HRH Prince of Kent





# Progress of ASEAN NCAP







31<sup>st</sup> January 2013, Malacca, Malaysia

- ASEAN NCAP Phase 1 Result Release
- Side Impact demonstration crash test (HONDA Civic) and Open Day
- Attended by 300 participants all over ASEAN and NCAPs

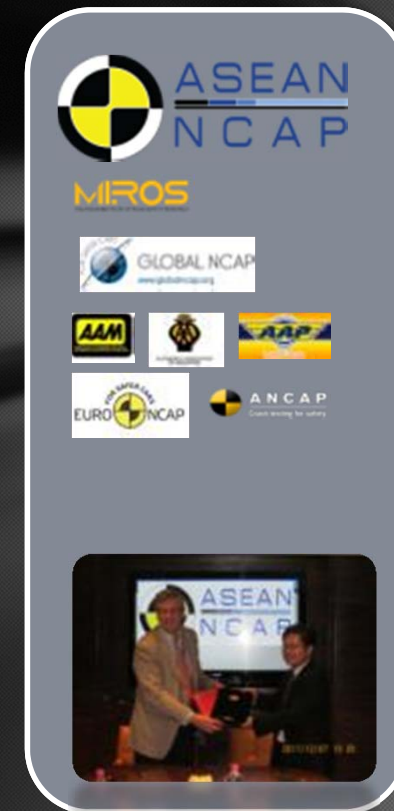




# NCAPs around the world

Continent	Program Name	Label	Countries
ASIA	<b>China New Car Assessment Program</b> Acronym: C-NCAP		<ul style="list-style-type: none"> <li>China</li> </ul>
	<b>Japan New Car Assessment Program</b> Acronym: JNCAP Established 1991		<ul style="list-style-type: none"> <li>Japan</li> </ul>
	<b>Korean New Car Assessment Program</b> Acronym: KNCAP Established 1999		<ul style="list-style-type: none"> <li>Korea</li> </ul>
AUSTRALIA	<b>Australasian New Car Assessment Program</b> Acronym: ANCAP Established 1992		<ul style="list-style-type: none"> <li>Australia</li> <li>New Zealand</li> </ul>
EUROPE	<b>European New Car Assessment Program</b> Acronym: Euro NCAP Established 1997		<ul style="list-style-type: none"> <li>France</li> <li>Germany</li> <li>Italy</li> <li>Spain (Catalonia)</li> <li>Sweden</li> <li>The Netherlands</li> <li>UK</li> <li>European region as a whole</li> </ul>
NORTH AMERICA	<b>Insurance Institute for Highway Safety – Vehicle Ratings</b> Acronym: US IIHS		<ul style="list-style-type: none"> <li>USA</li> </ul>
	<b>New Car Assessment Program (NHTSA<sup>3</sup>)</b> Acronym: US NCAP Established 1978		<ul style="list-style-type: none"> <li>USA</li> </ul>
SOUTH AMERICA	<b>Latin American &amp; Caribbean New Car Assessment Program</b> Acronym: Latin NCAP		<ul style="list-style-type: none"> <li>Latin America and Caribbean region as a whole</li> </ul>

NEW



First Test – 24<sup>th</sup> May 2012

# Support from Related Parties



GLOBAL NCAP  
[www.globalncap.org](http://www.globalncap.org)



FIA Foundation  
for the Automobile and Society



*Stake  
Holders*

*Financial*

*Support*

*Technical*

*Support*

*Program*

*Advisory*

Agenda 2:  
ASEAN NCAP  
Organization Chart



# ASEAN NCAP Organization Chart

## Steering Committee

(MIROS, AAM, AAS, AAP & AAC) + (Global NCAP, Latin NCAP & Australasian NCAP – Advisory Panel)

## Technical Committee

(MIROS, TGGG, UOP, Latin NCAP & ANCAP)

WG

Frontal Impact

WG

Side Impact

WG

Child Restraint

WG

Safety Assist

Agenda 3:  
Overview of ASEAN NCAP Phase 1

# Vehicle involved in Phase 1



\*Start Date: 15<sup>th</sup> November 2012

\*Last test: 29<sup>th</sup> January 2013



# Testing Information

## Test quantity

• ODB 40% Demo Test :	1
• Official Test :	7
• Pre-Test :	5
• Speed Validation Test :	2
• Reconciliation Test* :	1
<b>TOTAL</b>	<b>16</b>

### \*Reconciliation Test:

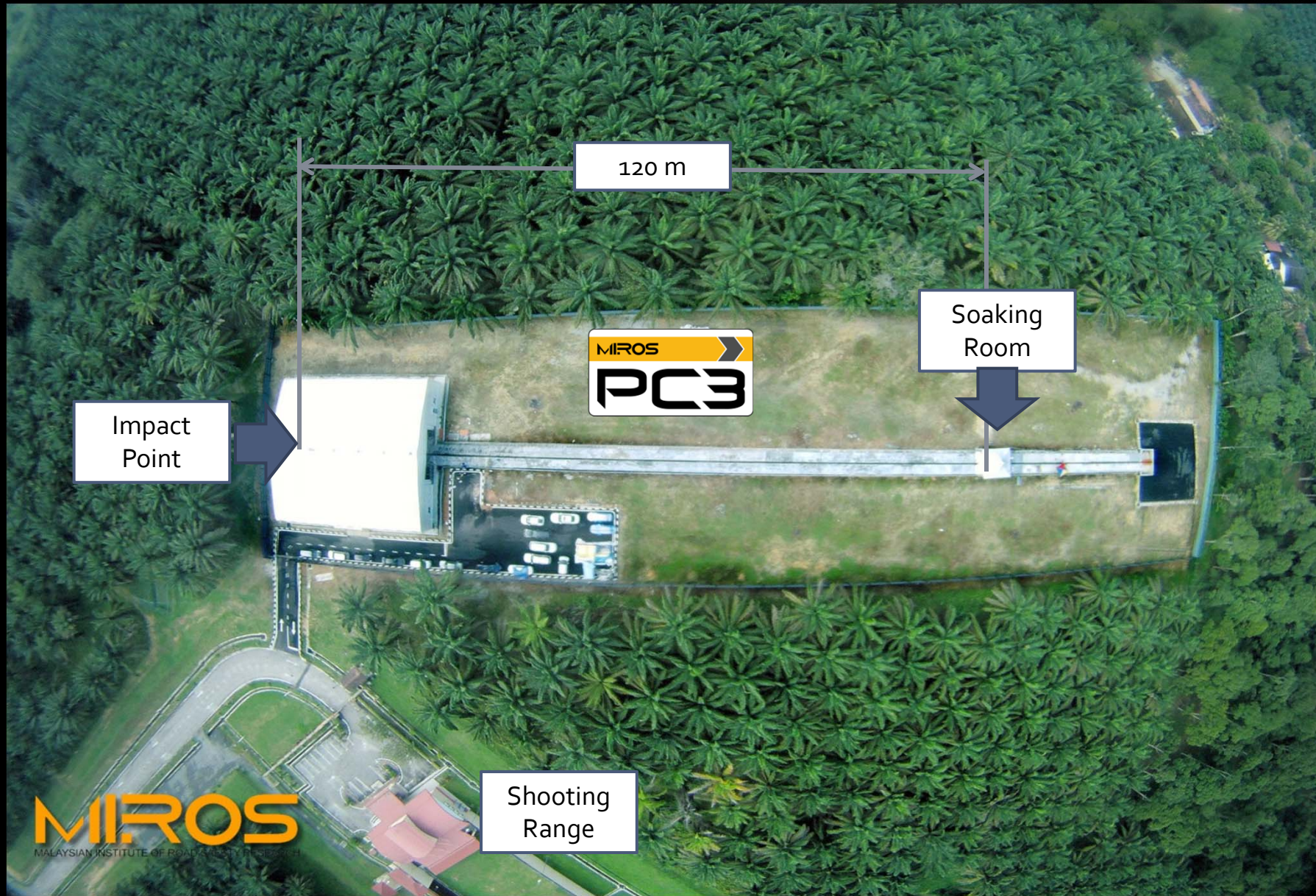
Taken from accounting jargon means the process of making consistent or compatible, in this case, the variant tested is obsolete prior to the official launch, therefore the new lowest variants of vehicle require to be tested.



Test Laboratory: MIROS PC<sub>3</sub>



# PC<sub>3</sub> Top View





# Support from Related Parties



*Financial  
Support*



*Technical  
Support*



*Product Support*

We moved the base line!!!!

Toyota VIOS – upgraded all version to double airbags starting September 2012

Honda City – New column pad cover, SBR for both front passenger; create ASEAN specification for low and high grade.

Nissan March – New column pad cover for whole ASEAN region

Ford Fiesta – Implementation of top tether for all ISOFIX application starting 20<sup>th</sup> May 2013.

Proton SAGA- Deletion of single airbag variant starting February 2013. Lowest variant will be equipped with double airbags and top tether

# Summary of tested vehicle





Agenda 3:  
ASEAN NCAP Phase 1 Result









# Overall Result [ Phase 1 ]



## ADULT OCCUPANT PROTECTION

<i>FORD Fiesta</i>	 ADULT OCCUPANT PROTECTION	★★★★★
<i>HONDA City</i>	 ADULT OCCUPANT PROTECTION	★★★★★
<i>TOYOTA Vios</i>	 ADULT OCCUPANT PROTECTION	★★★★
<i>NISSAN March</i>	 ADULT OCCUPANT PROTECTION	★★★★
<i>PROTON Saga FLX+</i>	 ADULT OCCUPANT PROTECTION	★★★
<i>PERODUA Myvi</i>	 ADULT OCCUPANT PROTECTION	★★★
<i>HYUNDAI i10</i>	 ADULT OCCUPANT PROTECTION	★★
<i>PROTON Saga</i>	 ADULT OCCUPANT PROTECTION	★

## CHILD OCCUPANT PROTECTION

<i>HONDA City</i>	 CHILD OCCUPANT PROTECTION	81%
<i>FORD Fiesta</i>	 CHILD OCCUPANT PROTECTION	66%
<i>PROTON Saga FLX+</i>	 CHILD OCCUPANT PROTECTION	58%
<i>PERODUA Myvi</i>	 CHILD OCCUPANT PROTECTION	54%
<i>PROTON Saga</i>	 CHILD OCCUPANT PROTECTION	49%
<i>HYUNDAI i10</i>	 CHILD OCCUPANT PROTECTION	48%
<i>NISSAN March</i>	 CHILD OCCUPANT PROTECTION	48%
<i>TOYOTA Vios</i>	 CHILD OCCUPANT PROTECTION	48%

# FORD Fiesta

**Variant:** LXTi-VCT Automatic  
**Year Built:** 2012  
**Model Year:** 2011  
**Vehicle Category:** 4-door Sedan  
**Engine Capacity:** 1.6 Litre Petrol  
**Kerb Mass:** 1147 kg  
**Test Laboratory:** MIROS PC3



**Production of Thailand**

**FORD FIESTA**  
WITH 7 AIRBAGS



**ADULT OCCUPANT PROTECTION** ★★★★★

**CHILD OCCUPANT PROTECTION** 66%

CRASH TEST JANUARY 2013



"Making Cars Safer in ASEAN Region"

ACT0007 Ford Fiesta FO

3 Jan 2013



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# FORD Fiesta

**Pre-requisite for 5-Star in ASEAN NCAP:**

Electronic Stability Control – YES

Seatbelt Reminder – YES (Driver & Front Passenger)

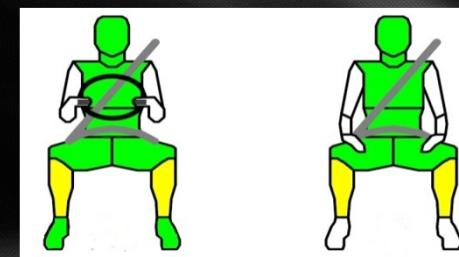
This car is eligible for maximum 5-star.

All Ford Fiesta is produced in Thailand and Ford offers a variant with driver airbag only for ASEAN market except Malaysia. This model is not available for Singapore and Myanmar. Only vehicle with at least double airbags, ESC and Seat belt reminder for frontal occupant is eligible to claim for 5 stars ASEAN NCAP ratings.



Dummy	P3	P1.5
Attachment	ISOFIX and Seat Belt	ISOFIX
Brand of CRS	Britax Duo Plus [FORD]	Britax Baby Safe Plus SHR II [FORD] Britax Baby-safe ISOFIX base

CRS Assessment	
Dynamic Test*	17.39 / 24
CRS Based Assessment	12 / 12
Vehicle Based Assessment	3/13
<b>TOTAL</b>	<b>32.39/49</b>
Compliance Percentage	66.10%



Modifier:  
No Modifier

TOTAL SCORE
15.73 / 16.00

\*For P3, the test was conducted using seat belt and ISOFIX attachment due to the unavailability of top tether anchorage point. Ford will introduce top tether to all ISOFIX applications in ASEAN Fiesta no later than 20<sup>th</sup> May 2013. Predicted calculation of CRS assessment using top tether would end up to minimum 10% increment from previous scoring.

Model year refers to the latest changes of safety package for each variant.

# HONDA City

Variant: Grade S

Year Built: 2012

Model Year: 2012

Vehicle Category: 4-door Sedan

Engine Capacity: 1.6 Litre Petrol

Kerb Mass: 1142 kg

Test Laboratory: MIROS PC3



Production of  
Malaysia

HONDA  
CITY  
WITH 2 AIRBAGS



ADULT  
OCCUPANT  
PROTECTION



CHILD  
OCCUPANT  
PROTECTION

81%

CRASH TEST DECEMBER 2012



www.aseanncap.org

"Making Cars Safer in ASEAN Region"

ACT0004 Honda City FO

13 Dec 2012



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# HONDA City

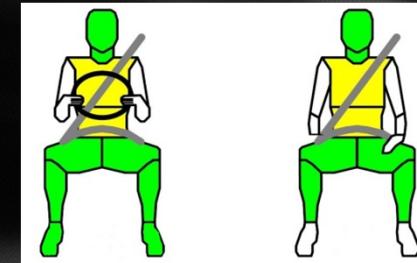
**Pre-requisite for 5-Star in ASEAN NCAP:**

Electronic Stability Control – YES\*

Seatbelt Reminder – YES\* (Driver & Front Passenger)

This car is eligible for maximum 5-star.

\*Honda equipped City model with double airbags all over Southeast Asia region. From the changes started 30<sup>th</sup> January 2013 in all over Southeast Asian HONDA production, there will be two choices of Low and High grade of HONDA City. High End grade of Honda City is eligible for ASEAN NCAP 5 stars rating starting from the said date.



Modifier:  
No Modifier

**TOTAL SCORE**

15.44 / 16.00

Dummy	P <sub>3</sub>	P <sub>1.5</sub>
Attachment	ISOFIX and Top Tether	ISOFIX
Brand of CRS	Britax Duo Plus [HONDA Genuine ISOFIX CRS]	Britax Baby Safe Plus SHR II [HONDA Genuine ISOFIX CRS] Britax Baby-safe ISOFIX base

CRS Assessment	
Dynamic Test	21.79 / 24
CRS Based Assessment	12 / 12
Vehicle Based Assessment	6/13
<b>TOTAL</b>	<b>39.79/49</b>
Compliance Percentage	81.20%

Model year refers to the latest changes of safety package for each variant.

Agenda 4:  
ASEAN NCAP Phase 2 Updates



# Test in PC<sub>3</sub>

Start : 18<sup>th</sup> April ~ 27<sup>th</sup> July 2013

Vehicle	Manf. Origin	Type	Made In	Market	With Pre-test	First Involvement
1 	Japan	MPV	Indonesia	Indonesia	Yes	No
2 	Japan	MPV	Indonesia	Indonesia	Yes	Yes
3 	Japan	Sedan	Thailand	Thailand	Yes	No
4 	Malaysia	MPV	Malaysia	Malaysia	Yes	No
5 	Japan	Sedan	Thailand	Indonesia	Yes	No
6 	Japan	Small	Thailand	Thailand	Yes	Yes
7 	Japan	Small	Malaysia	Malaysia	Yes	Yes
8 	China	MPV	Malaysia	Malaysia	No	Yes
9 	<i>Japan</i>	<i>Sedan</i>	<i>Thailand</i>	<i>Malaysia</i>	-	Yes

Vehicle	Manf. Origin	Type	Made In	Market	Test Type	First Involvement
1 	<i>Germany</i>	<i>Sedan</i>	<i>Malaysia</i>	<i>Malaysia</i>	<i>Pre</i>	Yes
2 	<i>Malaysia</i>	<i>MPV</i>	<i>Malaysia</i>	<i>Malaysia</i>	<i>Development</i>	No



Schedule for Phase 2



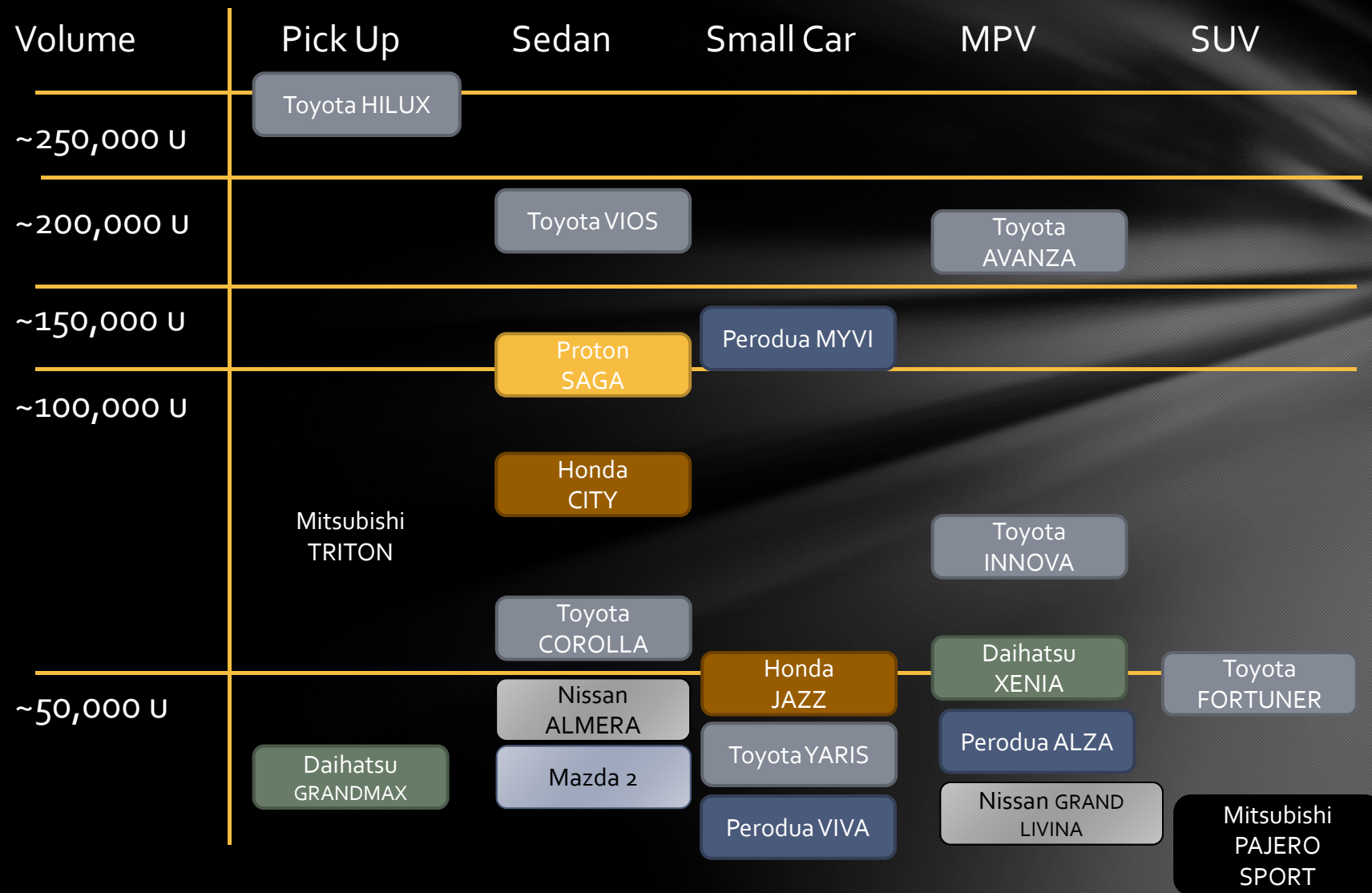
Postpone to Phase 3

# Test in JARI

Vehicle	Manf. Origin	Type	Made In	Market	Pre-Test	First Involvement
1 	Japan	SUV	Japan	Singapore	No	Yes
2 	<i>Japan</i>	<i>SUV</i>	<i>Japan</i>	<i>Malaysia</i>	<i>No</i>	<i>Yes</i>
3 	<i>Japan</i>	<i>Sedan</i>	<i>Japan</i>	<i>Malaysia</i>	<i>No</i>	<i>No</i>



# Sales Data 2012 (ASEAN Top 20)



# Updates (Plan vs. Actual)

Phase 1 theme: Small Car and Sedan

Plan	Actual
No sponsorship allowed	Yes, as plan
1 manufacturer : 1 car	Yes, except for *reconciliation test.
2 manufacturing countries	Yes, Malaysia & Thailand
Completion date; End October 2012	Delay to End January 2013

Phase 2 theme: MPV and others

Plan	Actual
Sponsorship is allowed	Yes, as plan
1 manufacturer : 2 car	Yes, 1 in PC3 and 1 in JARI.
5 manufacturing countries	No, 3 manufacturing countries, [LHD volume is not justifiable: 1/8 of RHD]
Completion date; End June 2013	Delay to End July 2013





Agenda 5:  
ASEAN NCAP Roadmap

# Road Maps

Phase 1	Phase 2	Phase 3
May 2012 – Jan 2013	Feb 2013 – June 2013	July 2013 – Dec 2013
ODB 64: 40% offset	ODB 64: 40% offset	ODB 64: 40% offset
5 star pre-requisite [ESC & SBR Frontal]	5 star pre-requisite [ESC & SBR Frontal]	<b>5 star pre-requisite</b> [ESC & SBR Frontal & Side Impact R95 (to be tested at ASEAN NCAP certified lab)]
		<b>4 star pre-requisite</b> – Side Impact R95 to be tested at ASEAN NCAP certified lab.



# Plan:

Phase 3 theme: Pick Up, SUV and others

## Plan

Sponsorship is allowed

1 manufacturer : 2 car (1 in PC3 and 1 in JARI etc.)

5 manufacturing countries: Targeting vehicle from LHD countries (Vietnam or Philippines)

Completion date; End December 2013

UN R95 for Phase 1 & 2 vehicle; either conducted at PC3 or other location TBC



We are what we repeatedly do; excellence then is not an act,  
but a habit - Aristotle



THANK YOU – TERIMA KASIH