

ASEAN MOTORCYCLE ABS

STATUS REPORT

MROS
MALAYSIAN INSTITUTE OF ROAD SAFETY RESEARCH
■ ASEAN ROAD SAFETY CENTRE





MOTORCYCLE  **ABS** PARTNERSHIP

GLOBAL  **FOR SAFER CARS** **NCAP**



TOWARDS  **ZERO** FOUNDATION

ASEAN Road Traffic Status

- 58% of vehicles in ASEAN are motorcycles
- Small engine capacity (250cc and below) – dominating ASEAN market (80% in Thailand & Indonesia, 90% in Malaysia)
- Road crashes losses – affected ASEAN GDP 2-3%
 - Indonesia USD17.8 billion in 2014 (Jusuf et al., 2014)
 - Thailand USD16.5 billion (WHO, 2020)
 - Malaysia USD2 billion (MIROS, 2018)
 - Vietnam USD1 billion (Dong & Hoang, 2017)
- Almost 60% road fatalities in ASEAN are among motorcyclists

Benefit of ABS

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graph TD; A[Benefit of ABS] --> B[Life benefit]; A --> C[Economic benefit]; B --> D["✓ Projected related crash-reduction of 26% - 39%"]; B --> E["✓ Could save up to 8,000 motorcyclists lives every year in ASEAN"]; C --> F["✓ Based on value of statistical life (VOSL) of each country"]; C --> G["✓ Malaysia – USD0.5 billion annually"]; C --> H["✓ Thailand – USD0.9 – 1.5 billion annually"]; C --> I["✓ Boost GDP more than 1%"];
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Life benefit

- ✓ Projected related crash-reduction of 26% - 39%
- ✓ Could save up to 8,000 motorcyclists lives every year in ASEAN

Economic benefit

- ✓ Based on value of statistical life (VOSL) of each country
- ✓ Malaysia – USD0.5 billion annually
- ✓ Thailand – USD0.9 – 1.5 billion annually
- ✓ Boost GDP more than 1%

Motorcycle ABS Regulation in ASEAN

ABS to be mandatory on motorcycles 150cc and above in Malaysia following MIROS study – transport minister

Posted in Bikes, Local Bike News, Local News, Safety, Technology / By Mick Chan / May 24 2022 5:01 pm



The Malaysian government will make the fitment of anti-lock braking systems (ABS) mandatory for motorcycles displacing a capacity of 150 cc and more, [Astro Awani](#) reported.

According to transport minister Datuk Seri Wee Ka Siong, the mandatory fitment of ABS will apply to all motorcycle manufacturers present in Malaysia, however enforcement will only begin after findings from a detailed study carried out by the Malaysian Institute of Road Safety Research (MIROS) have been received.

THE
NATION



2023

/ pr-news

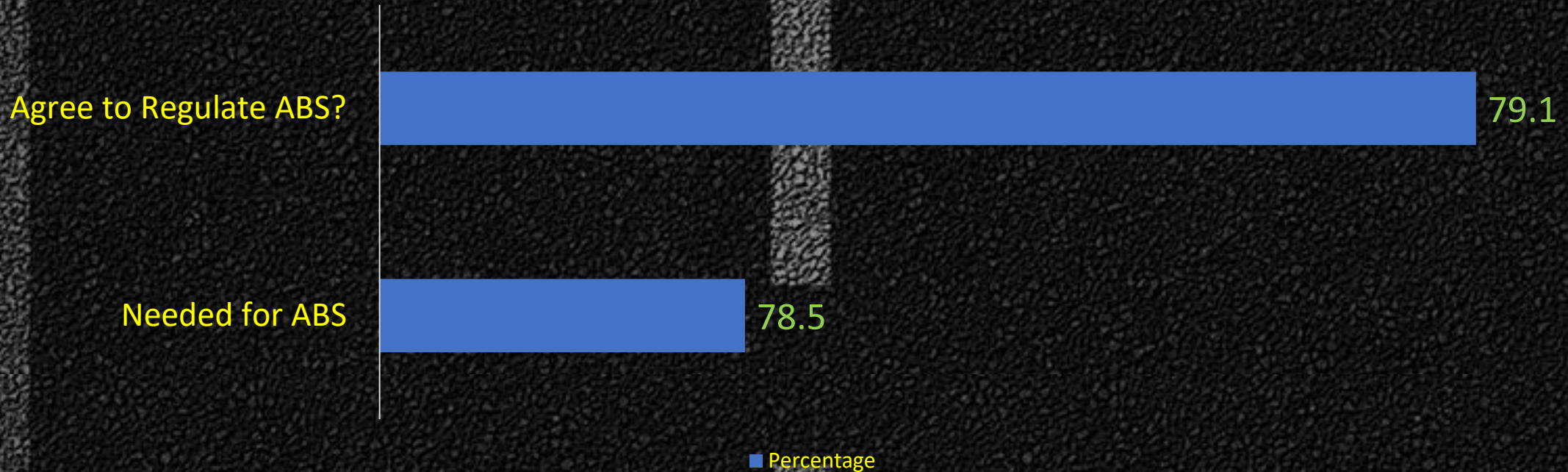
Local support for global two-wheeler manufacturers in ASEAN - Production at Amata plant in Thailand to start in the second quarter of 2022. - From 2024, motorcycle ABS will be mandatory in Thailand for all new models over 125 cc. - Roughly 25 percent of accidents involving motorized two-wheelers could be prevented by motorcycle ABS.

To achieve its vision of making motorcycle riding safer, more efficient, and fun, Bosch makes market-specific products and solutions available to global two-wheeler manufacturers. In order to meet the increasing demand for safety systems in the Asian market, Bosch plans to start production of motorcycle ABS at its Amata plant in Rayong, Thailand, in the second quarter of 2022. Following Japan and India, therefore, the Amata plant will be Bosch's third manufacturing site for motorcycle ABS in the world. This global manufacturing network allows Bosch to support global two-wheeler manufacturers' efforts to optimize their supply chains. "With ABS10 light and base, we provide dedicated safety systems for the small commuter scooters and motorcycles that represent a major mode of transportation in ASEAN. Our customers will benefit from local production at an established plant that already has experience of producing four-wheeler ABS systems," says Geoff Liersch, president of the Two-Wheeler & Powersports unit at Bosch.

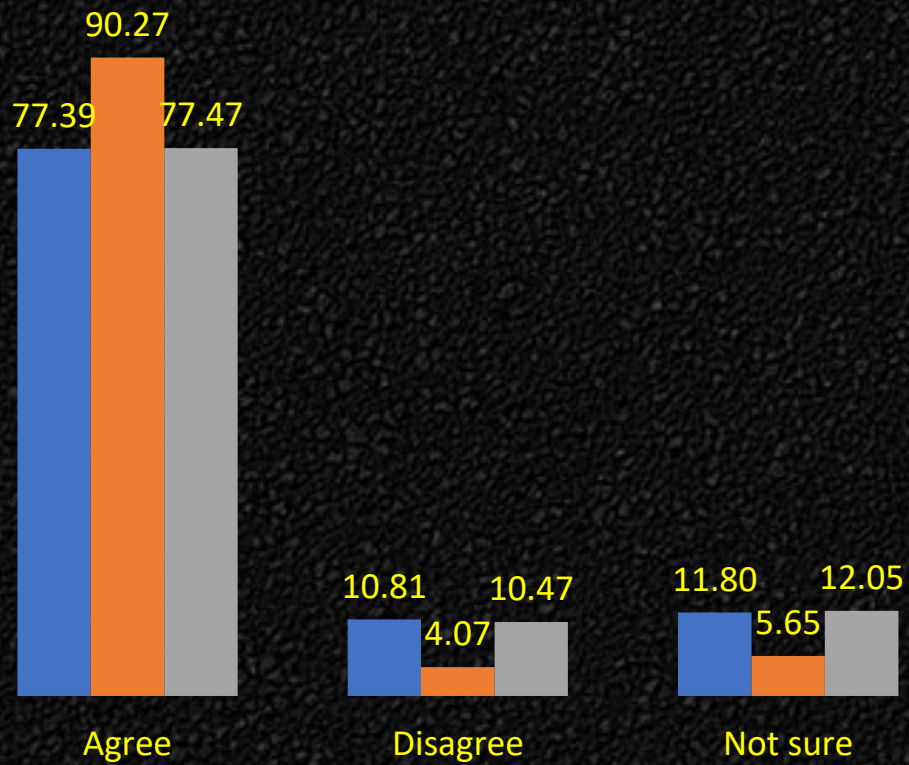
- Malaysia – 150cc above, 2025
- Thailand – 125c, 2024
- Other ASEAN countries?

Consumer Awareness & Demand

- 1,200 respondents across ASEAN countries

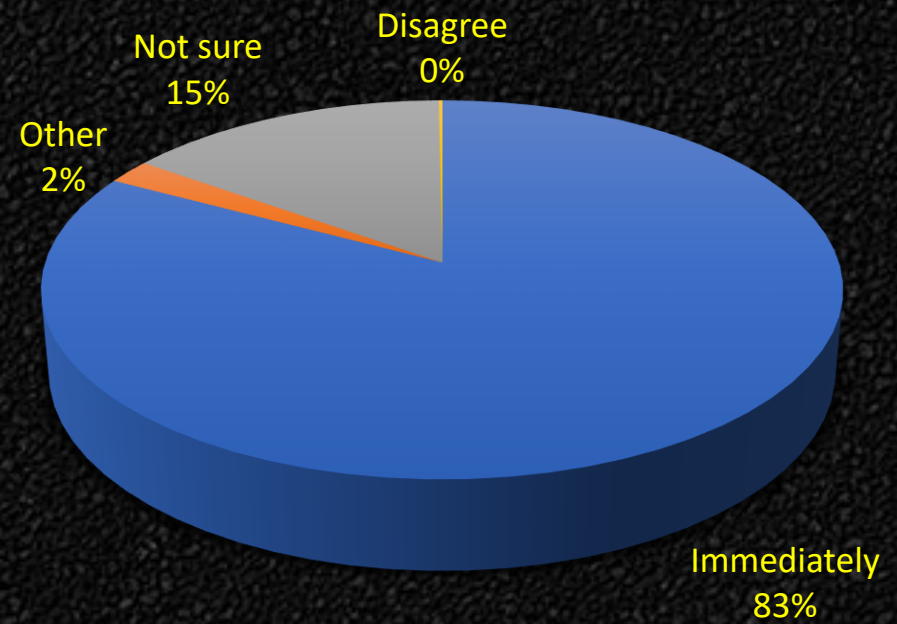


Motorcycle segment shall be equipped ABS (%)



- Motorcycle below 250 cc
- Motorcycle more than 250 cc
- All motorcycle

When?



What's Next?

- Motorcycle ABS projected crash reduction 26% - 39%
- Economic benefits due to crash reduction
- With Thailand and Malaysia implementing, most low engine capacity bike in ASEAN region will be equipped with ABS or ABS-ready from the motorcycle manufacturers' principals
- Thus, it will be one step away for other countries to implement the ABS mandatory fitment.

THANK YOU

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