

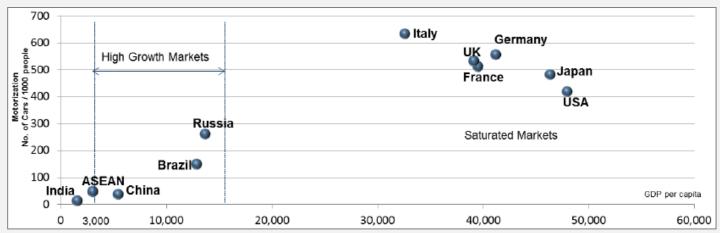




ASEAN: ATTRACTIVE MARKET.



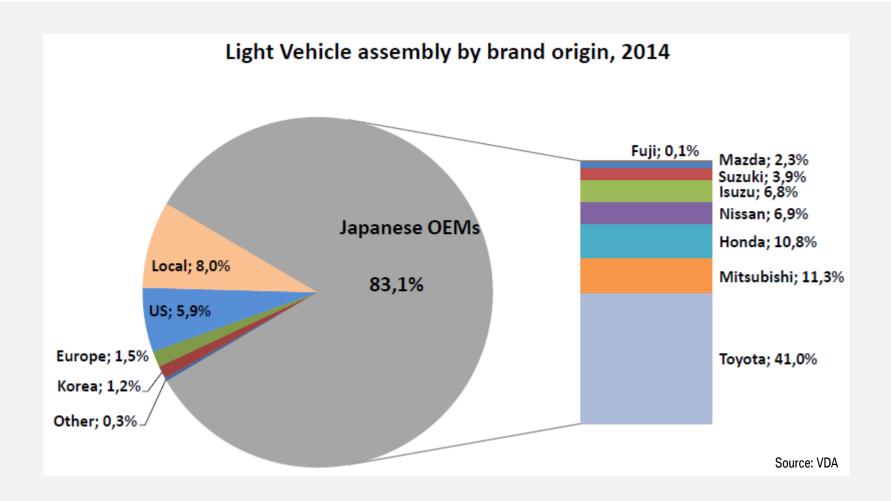
- **■** Population ASEAN > EU.
- Young & tech savvy population.
- GDP growth over proportional.
- Automotive seen as important to industrialize the countries.
- Motorization rate still low.



Source: Frost and Sullivan







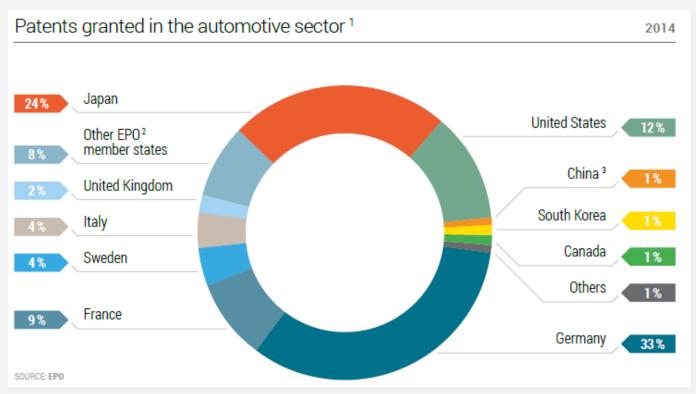
assen

CHALLENGES OF EUROPEAN OEM TO GAIN STRONGER FOOTHOLD IN ASEAN.

- "Anti-Innovation" taxes.
- National automotive policies focus on entry and "low-tech" segments.
- Limited economies of scale and high cost bases.
- Slow AEC implementation.
- Slow progress of Free Trade Agreements with EU and US.
- Lack of qualified staff.



LEADING ROLE OF EUROPEAN OEM IN KEY TECHNOLOGIES.



Source: ACEA



BMW GROUP'S EFFICIENT DYNAMICS STRATEGY ACROSS A BROAD SPECTRUM OF TECHNOLOGIES.



- Continuous optimization of fuel consumption and emissions.
- Lightweight construction.
- 3-cylinder engines.



- First limited electric vehicle
- MINI E on the road since 2009.
- BMW ActiveE in 2011.

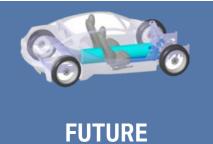
production in 2008.

Introduction BMW i3 and BMW i8 in 2013 and 2014.



- Full and mild hybrid vehicles.
- Initial step towards electrification of the drivetrain.
- Plug-in Hybrid drive-trains.





- Commitment to and validation of technology.
- Focus on Crucial Components:
 Optimization of Powertrain
 Components (Fuel Cell and ICE).
- Improvement of hydrogen storage and efficiency.

BMW Group's drive strategy provides a broad technology spectrum for today and the future.

Combustion engine

E-vehicle

Hybrid technology

Hydrogen

STAYING AHEAD IN A VOLATILE ENVIRONMENT...



Thai Car-Making Supremacy Is at Risk

THE WALL STREET JOURNAL.

Japanese association fears post-2018 automobile imports will worsen Vietnam's trade deficit

Car makers to pay higher taxes

Rangkok Dost

TUOI TRE NEWS

Indonesian Car Sales Sputter as Economy Drops a Gear JakartaGlobe

Mixed sentiments on PH automotive industry plan

Rappler.com

BMW drops wrench into palm energy plan

Bloomberg

STAYING AHEAD IN A VOLATILE ENVIRONMENT...





How to best stimulate innovation and global competitiveness of the ASEAN automotive industry?

How serious is ASEAN about road & vehicle safety and protecting the environment?

How can ASEAN improve income per capita and boost workforce skills within the automotive sector?