

# **ASEAN Automotive Outlook:**

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## Challenges in Today's Automotive Industry

Today's automotive industry is changing rapidly. There are a constantly new challenges in an increasingly dynamic environment. How will your organization respond?

- Global platform proliferation presents greater volume opportunity, but more models drive complexity
- Accelerated lifecycle changes and launch activity
- Increasing regulatory pressures on emissions and fuel economy
- Game-changing technologies in autonomous driving and mobility options
- OEMs looking to suppliers to drive ongoing innovation
- Suppliers face capacity constraints in mature markets, but volume volatility in emerging regions

## **Global presence with regional expertise**

Through key strategic hubs, LMC Automotive coordinates is analysts and sales staff who operate throughout the world.

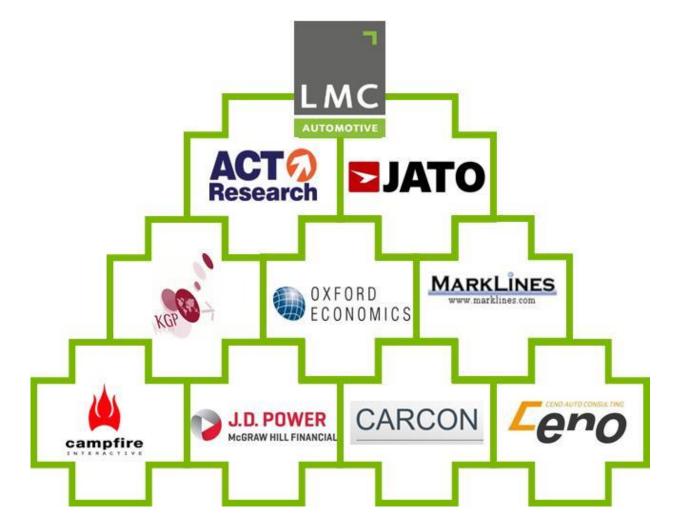


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### **Alliances and Partners**

Specialist partners across a broad spectrum of automotive disciplines enables us to provide an unrivalled scope and depth of analysis.





## A broad portfolio of offerings

Our product portfolio offers comprehensive coverage across the industry and global markets, but with the flexibility to suit your needs.

### More than 30 Global and Regional Services

• Production, Sales and Powertrain forecasts for all Passenger Cars, as well as Light and Heavy Commercial Vehicles

### **Four Global Automotive Conferences**

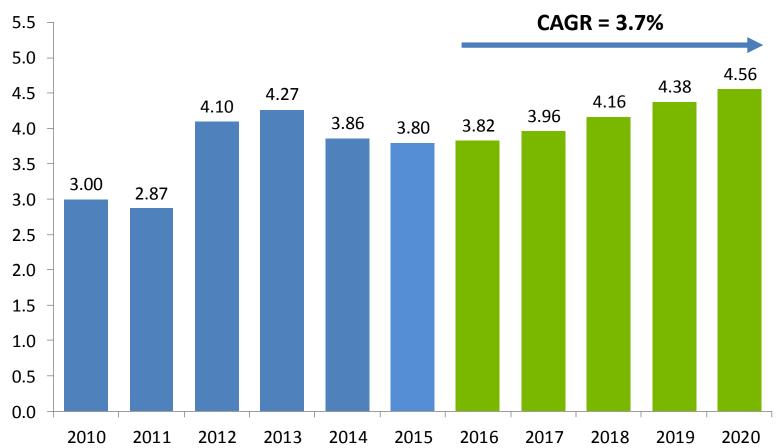
- May Light Vehicle Seminar Frankfurt, London
- October Automotive Industry Conference Michigan, USA
- October Asia Pacific Outlook Conference China, Japan
- November Global Industry Truck Seminar London, UK

### Nine Global Client Webinars. Free registration - > <u>www.lmc-auto.com</u>



### Outline

- Light vehicle production Current situation
- ASEAN 5 Production outlook
- Key Challenges:
  - ASEAN production
  - Thailand
  - Impact of BREXIT
- Our view on EVs



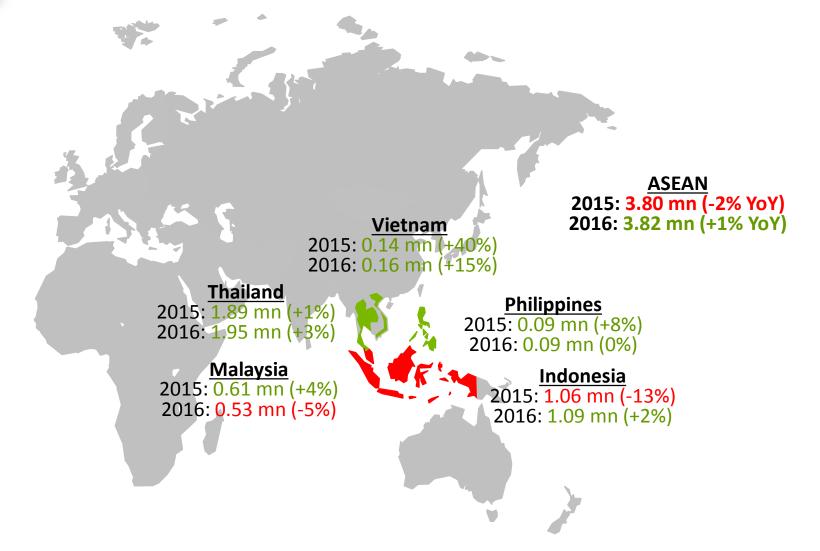
Million units

Source: LMC Automotive

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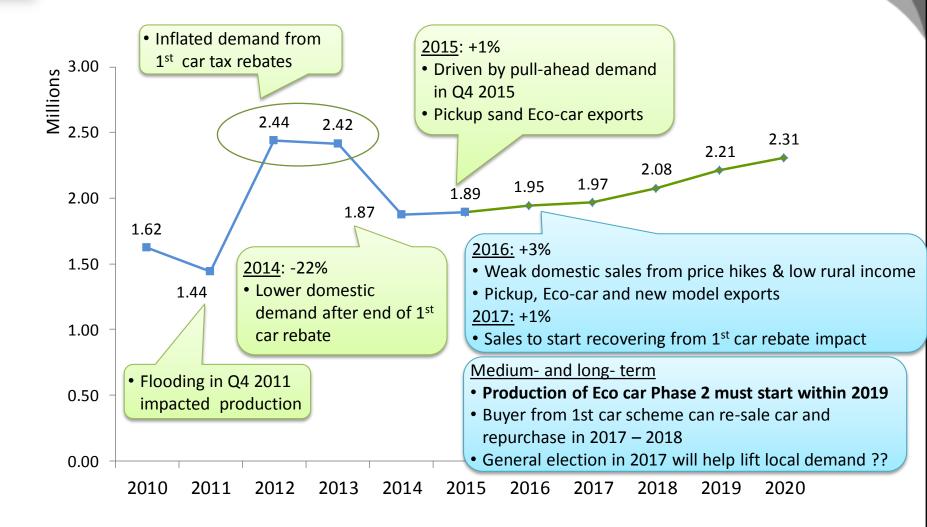
## **ASEAN Production by country**



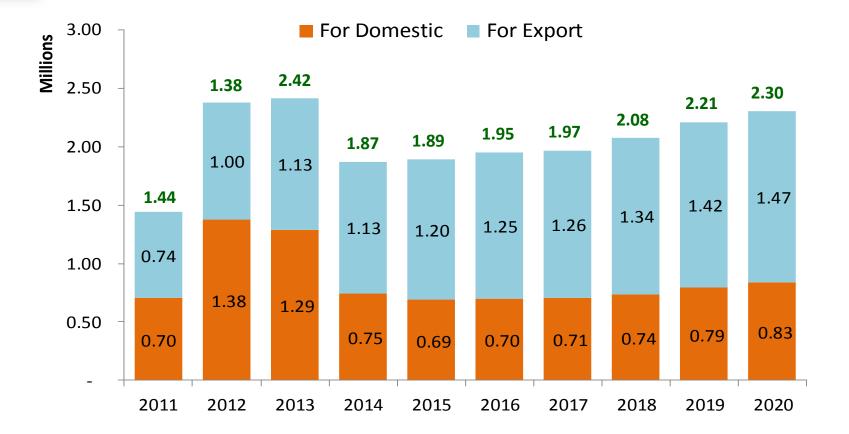
**Remark :** Thailand and Indonesia production are around 80% of regional production.

## Thai production outlook

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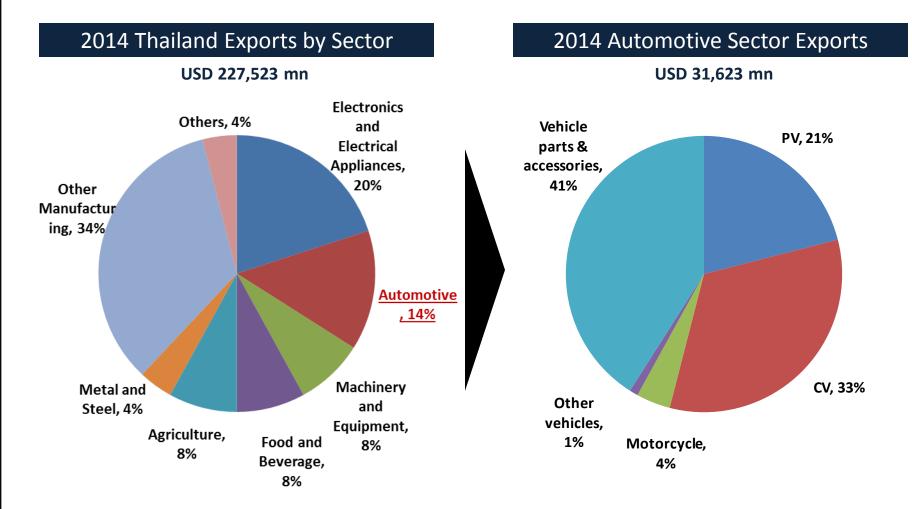


Source: LMC Automotive



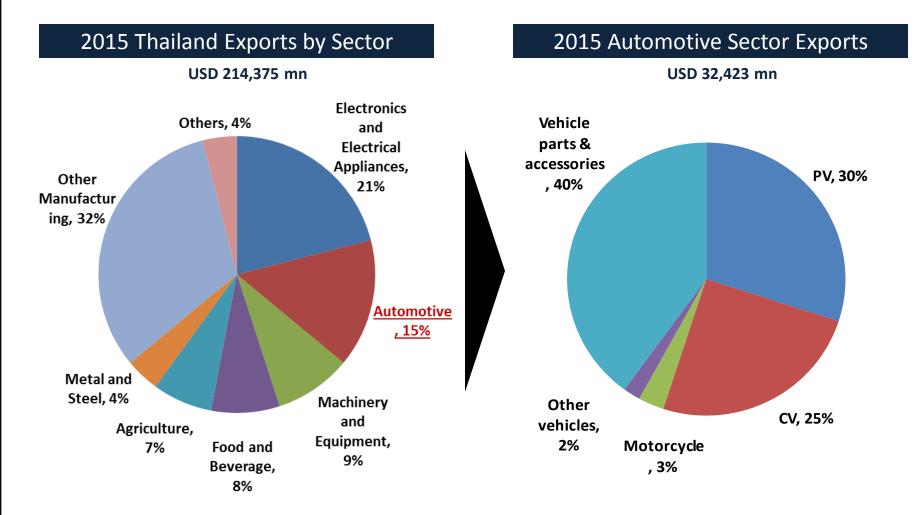
- Export is the main growth driver; Pickup, Eco-car and new models
- Weak global economy; China slow down and Middle East in particular
- Super Cluster policy aims to enhance industry R&D and technologies

#### Source: LMC Automotive



Source: Bank of Thailand

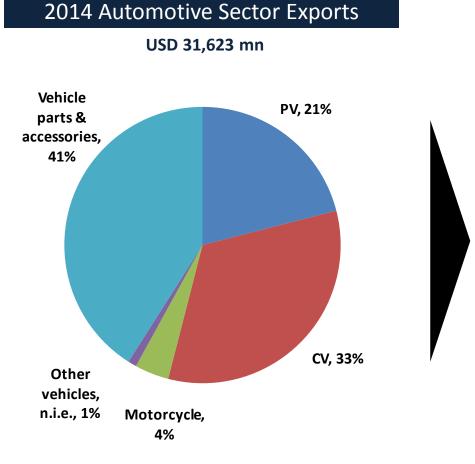
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Source: Bank of Thailand

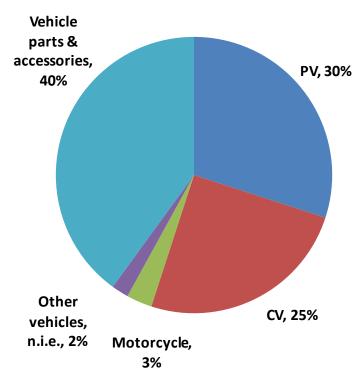


### Eco car gaining in 2015, SUV 2016



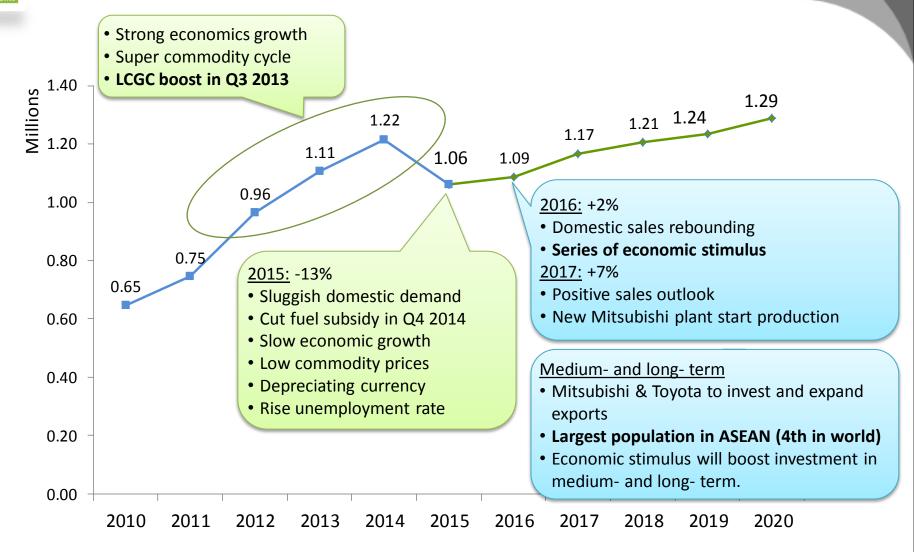
### 2015 Automotive Sector Exports

USD 32,423 mn



Source: Bank of Thailand

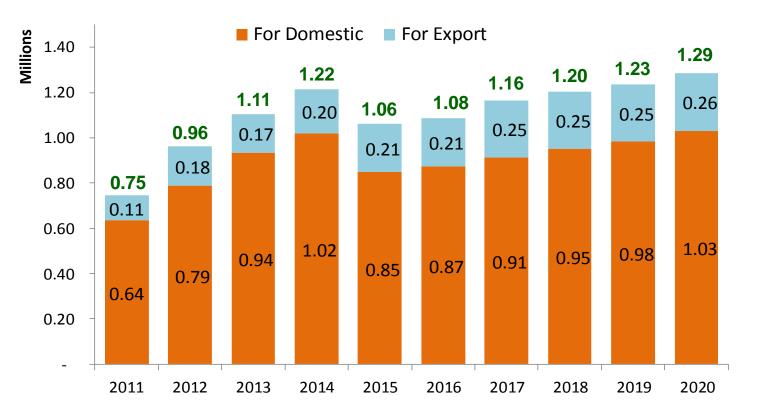
## Indonesia Production outlook



Source: LMC Automotive

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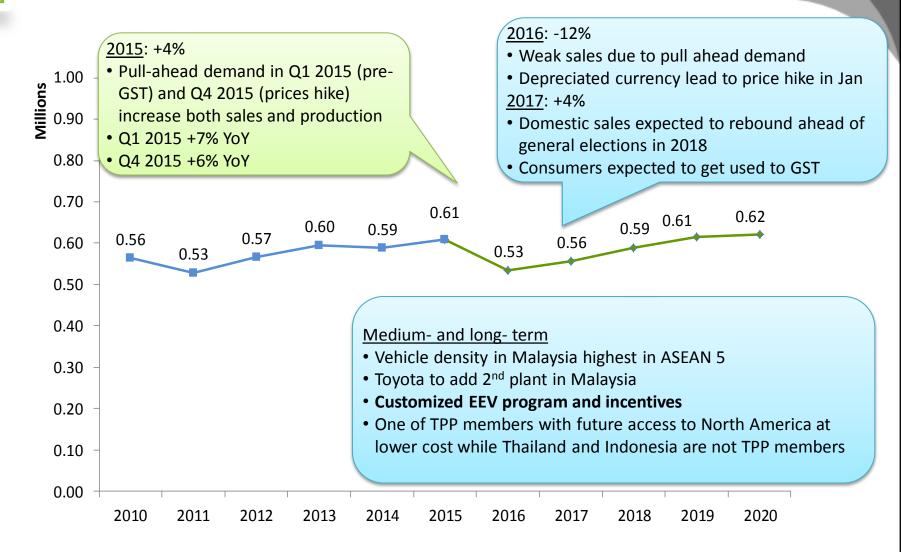
## Indonesia production: Expanding capacity



- Production relies on domestic demand.
- LCGC models create new demand
- Reducing taxes for sedans aim to boost demand and production for export (still at proposal stage)
- New Mitsubishi plant will start production in 2017
- Toyota plans new investment; to be online in 2020

Source: LMC Automotive

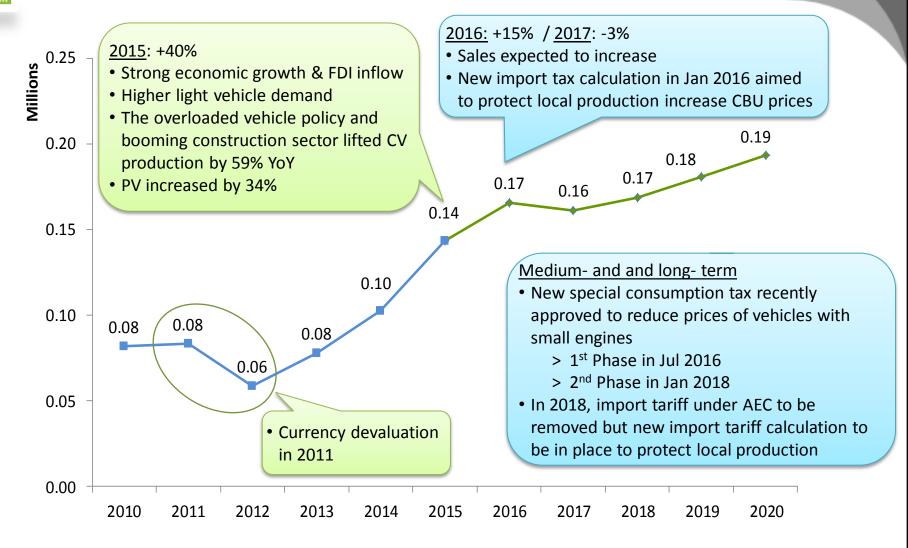
## Malaysia production outlook: Flexible policy



Source: LMC Automotive

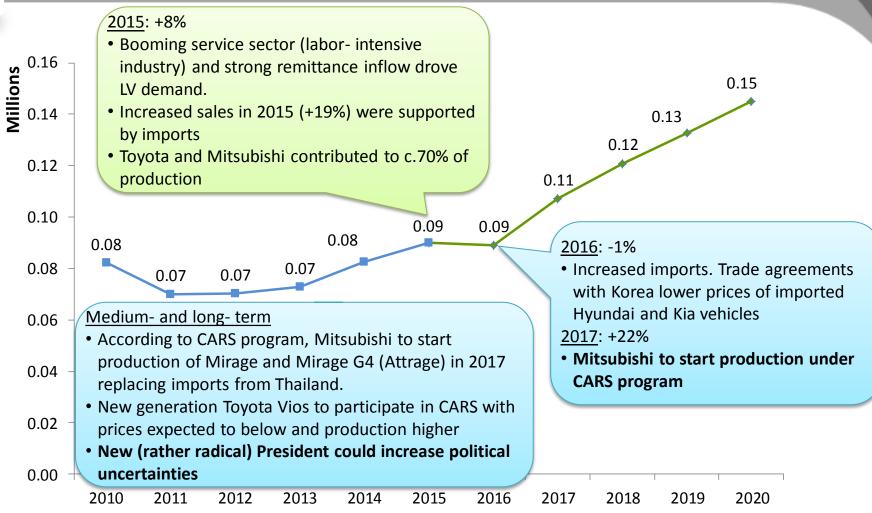
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## Vietnam production outlook: Tax policy changes



#### Source: LMC Automotive

## Philippine production outlook: CARS program



Source: LMC Automotive

|             | Detail   |  |  |  |
|-------------|--|--|--|--|
| Thailand    | <ul> <li>Eco-car program phase 2 faces challenges from policy of neighboring countries</li> <li>Government policies aims to increase automotive R&amp;D and technologies e.g. super cluster policy and proving ground project</li> </ul>   |  |  |  |
| Indonesia   | <ul> <li>LCGC program likely to limit to domestic market with limited export</li> <li>Proposal to revise luxury tax for Sedans (30% - 70% vs. 10% for MPV/SUV/Hatchback)</li> <li>Mitsubishi and Toyota to expand plant capacity aimed at boosting export rather than domestic demand</li> </ul>   |  |  |  |
| Malaysia    | <ul> <li>Government focuses on EV and Hybrid technology.</li> <li>The Energy Efficient Vehicles (EEV) program is flexible and can be customized based<br/>on automaker's proposal. Perodua Axia, Honda Jazz, Mercedes-Benz S400L<br/>Hybrid and E300 BlueTec Hybrid get (varying) incentives under this program</li> <li>One of TPP members</li> </ul>   |  |  |  |
| Vietnam     | <ul> <li>New import calculation effective Jan 2016 have increased CBU prices</li> <li>New special consumption tax will reduce prices of vehicles with small engines making entry models more affordable to first-time buyers</li> </ul>  |  |  |  |
| Philippines | <ul> <li>Only Toyota Vios, Mitsubishi Mirage and Mirage G4 (Attrage) participate in the<br/>Comprehensive Automotive Resurgence Strategy (CARS).</li> <li>Vios is locally-produced model while Mitsubishi models will start production in 2017<br/>instead of being imported from Thailand</li> <li>Production of both OEMs likely to serve domestic demand with limited or no export</li> </ul> |  |  |  |

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|           | Detail  |
|-----------|---|
| Thailand  | <ul> <li>Eco-car program phase 2 faces challenges from policy of neighboring countries         <ul> <li>Minimum production volume requirements</li> <li>Export plans a must for success</li> <li>Volume target plans in conflict with model lifecycle</li> <li>Required investment in engine parts</li> </ul> </li> </ul>   |
| Indonesia | <ul> <li>Tax policy favorable for MPV/SUV/Hatchback (against high tax for Sedan)</li> <li>LCGC program mainly serves the domestic market with limited export         <ul> <li>80% local content now and 100% in 2019</li> <li>Gasoline engine ≤ 1200 cc / Diesel engine ≤ 1500 cc</li> <li>Price less than IDR 100 mn which is low; not many export destinations</li> </ul> </li> </ul> |
| Malaysia  | <ul> <li>The Energy Efficient Vehicles (EEV) program is flexible and can be customized based<br/>on automaker's proposal         <ul> <li>Automaker can negotiate with government</li> <li>The set of CO2 and Fuel consumption depend on the engine size</li> <li>High trade barrier of import CBU Hybrid and EVs vehicle</li> <li>Develop what automaker have</li> </ul> </li> </ul>   |

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- Maturing domestic market with relatively high vehicle density
- Rising labour costs and lack of skilled labour
- Post-eco car: what's next?

- Good in terms of volume but value and technology?

- Auto sector is a key industry for all countries in ASEAN. They are competing rather than cooperating.
- Not a TPP member meaning less access to North America
- Japan: future policy direction focusing on fuel cell as an energy source including for the auto sector. Implication for industry development in Thailand?

## Thailand competitiveness vs. other ASEAN

| Advantages | <ul> <li>Geographic advantage</li> </ul>                                      |  |  |  |  |
|------------|---|--|--|--|--|
|            | <ul> <li>Strong supplier base</li> </ul>                                      |  |  |  |  |
|            | Long industry experience/expertise  |  |  |  |  |
|            | Larger production scale (could be under threat)                               |  |  |  |  |
|            | Good infrastructure   |  |  |  |  |
| Threats    | <ul> <li>Competing policy of neighboring countries</li> </ul>                 |  |  |  |  |
|            | <ul> <li>Demographics: Declining working-age population</li> </ul>            |  |  |  |  |
|            | <ul> <li>Critical for sector (and Thailand) to move up value &amp;</li> </ul> |  |  |  |  |
|            | technology chain  |  |  |  |  |
|            | Indonesia: Large population and low vehicle density                           |  |  |  |  |
|            | <ul> <li>Emerging destination for new investments</li> </ul>                  |  |  |  |  |
|            | <ul> <li>Increasing SUV export (following purchasing trend)</li> </ul>        |  |  |  |  |

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### Overview

BREXIT

- The United Kingdom's European Union membership referendum has resulted in a vote to leave the EU, with 52% of the voting for "BREXIT"
- A two-year negotiation period between the UK and the European Council (EC) after the Article 50 is triggered; WTO norms with tariffs applied from two years
- UK possibly facing a recession / Impact on non-UK Europe unclear at this point though impact likely to be much less compared to that on the UK

### **LV Production**

- Impact on vehicle production in the UK could be substantial
- UK exports almost 80% of car production, over half of which go to the EU
- Almost half of all components used in UK-built new cars are imported from the EU
- UK uses EU supply base for capital goods, finished components and skilled labour

### LV Sales

• UK imports almost 90% of its new LVs of which 80% are from the EU (excluding UK)

### Full detail: <u>http://www.lmc-auto.com/news-events/2016-news-releases/</u>

### **Electric vehicles**

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Government subsidies are needed to motivate automakers (development) and consumers (purchase)

| MAKER      | MODEL          | Subsidy<br>Yen | Original Price<br>Yen | Percent<br>% |
|------------|----------------|----------------|-----------------------|--------------|
| Honda      | Fit EV         | 850,000        | 3,809,524             | 22%          |
| Nissan     | e-NV200        | 850,000        | 3,776,000             | 23%          |
| Tesla      | S model        | 850,000        | 8,064,815             | 11%          |
| Mitsubishi | i-MiEV         | 710,000        | 2,628,000             | 27%          |
| Mitsubishi | Minicab-MiEV   | 530,000        | 2,269,000             | 23%          |
| BMW        | i3             | 400,000        | 4,620,370             | 9%           |
| Mercedes   | Smart for two  | 350,000        | 2,824,074             | 12%          |
| Nissan     | Leaf           | 270,000        | 2,466,000             | 11%          |
| BMW        | i8             | 850,000        | 18,203,704            | 5%           |
| Mercedes   | S550 Plug-in   | 850,000        | 15,018,519            | 6%           |
| BMW        | i3 Plug-in     | 750,000        | 5,055,556             | 15%          |
| Honda      | Accord Plug-in | 410,000        | 4,761,905             | 9%           |
| Mitsubishi | Outlander PHEV | 290,000        | 3,399,000             | 9%           |
| Toyota     | Prius PHV      | 250,000        | 2,857,143             | 9%           |

### Japan



### China

- Quotas for new car plates in Beijing was reduced to 150k in 2014-2017 from 240k in 2011-2013.
- Quotas for new car plates in Beijing:
  - 2016: 90k for normal cars vs. 60k for EVs.
  - 2015: 120k for normal cars ns. 30k for EVs.



### **Electric vehicles**

- Fuel and energy policy: Bio-Diesel / Gasohol / CNG / EVs
- Waste and Recycle management
- Policy of neighboring country: Malaysia's EEV

"Previous NAP's tax breaks for CBU hybrid cars have ended resulting price increases of imported hybrid cars"

"BAIC to begin EV production in Malaysia in September 2016"



"The locally-produce S400L Hybrid and E300 BlueTec Hybrid are exempted from import duty and excise tax as they qualify for the EEV"



### **Electric vehicles**

Lack of suppliers for some crucial parts for EVs such as lithium battery, invertor and convertor.

| COUNTRY         | HYBRID/EV TYPE | 2014  | 2015  | 2016F |
|-----------------|----------------|-------|-------|-------|
| Indonesia       | FHEV           | 251   | 137   | 151   |
|                 | MHEV           | 119   | 136   | 45    |
| Indonesia Total |                | 370   | 273   | 196   |
| Malaysia        | BEV            | 0     | 0     | 50    |
|                 | FHEV           | 3,794 | 2,294 | 1,414 |
|                 | MHEV           | 5,369 | 3,385 | 1,500 |
|                 | PHEV           | 0     | 9     | 4     |
| Malaysia Total  |                | 9,163 | 5,688 | 2,968 |
| Thailand        | FHEV           | 4,756 | 4,482 | 4,116 |
|                 | MHEV           | 2,036 | 585   | 978   |
|                 | PHEV           | 0     | 0     | 54    |
| Thailand Total  |                | 6,792 | 5,067 | 5,148 |

### EV sales in Thailand and ASEAN





# **Thank You**

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