# Thailand Country report Intergovernmental 11<sup>th</sup> Regional Environmentally Sustainable Transport Forum in Asia

3-5 October 2018

Office of Transport and Traffic Policy and Planning
Ministry of Transport
Thailand

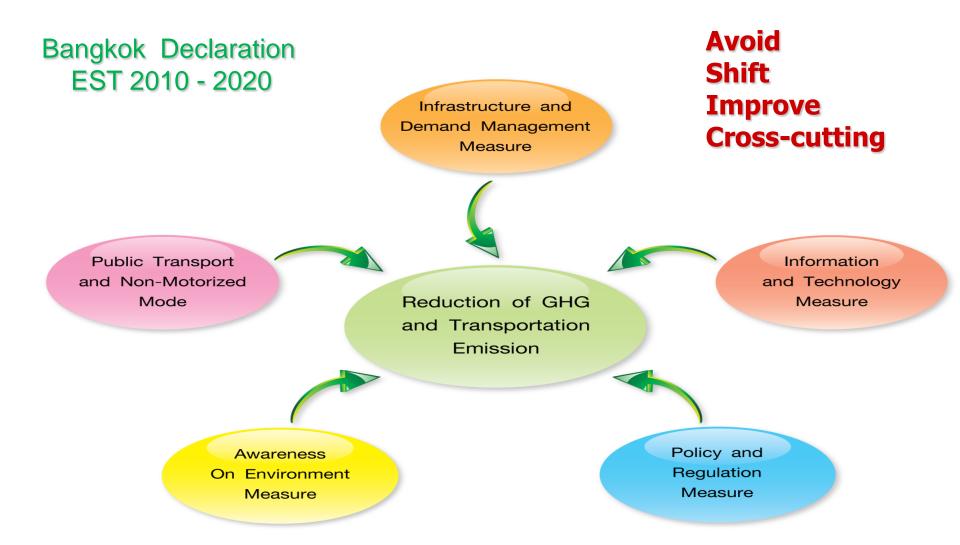


### Topic

 Thailand's Environmental Sustainable Transport development according to Bangkok 2020 declaration



## Thailand's SUSTAINABLE TRANSPORT MASTER PLAN





reduce unnecessary travel/ reduce trip distances

- Introduce TOD (Transit-oriented-Development at) Phahonyotin transport hub)
- Develop Phahonyotin transport hub to be Thailand Smart city

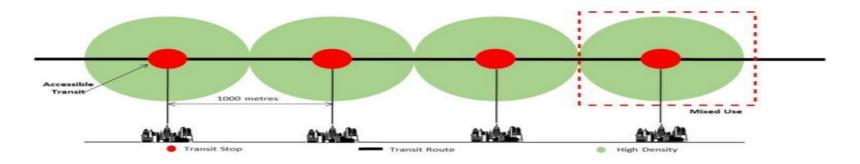






reduce unnecessary travel/ reduce trip distances

- Study on City and Transport Infrastructure Development (2018-2019)
  - Masterplan for cities along High-speed train, double-track and Transport Center Hub
  - Apply Urban planning and Transit-Oriented Development (TOD)
  - Control urban sprawl along railway development





reduce unnecessary travel/ reduce trip distances

### Information and Communications Technologies

studied on the Intelligent Transport System (ITS)
 Development Master Plan. The plan is currently under proposed to the ministry and the Commission of the Management of Road Traffic for approving before collaborating the master plan with other related agencies respectively. The ITS development in Thailand is now focused on GPS tracking system on vehicles and the proposal of Public Transport Information Standard in ITS.

## Shift

#### towards more sustainable modes

#### Non-Motorized Transport: is one of travel choices,

- studied and developed NMT policies include in transport master plan in all major cities over the country.
- -The length of the available bicycle path is 566.13 km. over the country, the length under construction is 715.39 km. This current bicycle path are under responsibility of Ministry of transport, Bangkok Metropolitan Administration and Ministry of Tourism and sport.
- -Guideline for Bicycle path design and construction (2016) www.otp.go.th

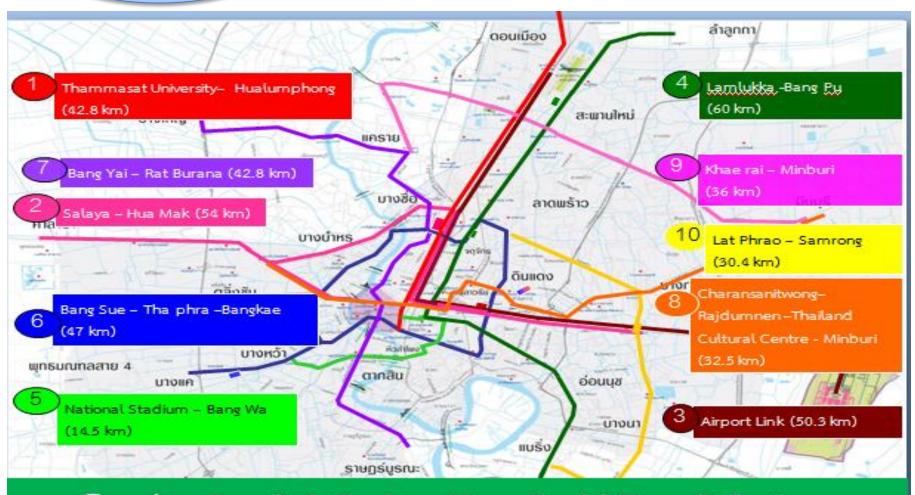






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#### towards more sustainable modes



Greater Bangkok Region: Mass Rapid Transit System

Ten Metro routes (open by December 2019) length 410 km

#### Shift: Towards more sustainable modes

Project	Length (km)	Cost (million baht)	Project period
Routes with heavy traffic and main routes for transporting freight			
1) Jira Junction – Khon Kaen	185	26,007	2558-2561
2) Prachuab Kiri Khan - Chumphon	167	17,293	2558-2561
3) Nakhon Pathom— Hua Hin	165	20,038	2558-2561
4) Mab Ka Bao — Nakhon Ratchasima	132	29,855	2559-2563
5) Lop Buri – Pak Nam Pho	148	24,842	2559-2563
6) Hua Hin – Prachuab Kiri Khan	90	9,437	2559-2563
5 lines + 1 line	887	127 <b>,472</b>	2563

#### Double Track Projects (Metre Gauge)

- Solves the problem of congestion
- Double track (standard metre gauge) supports freight transport and local train

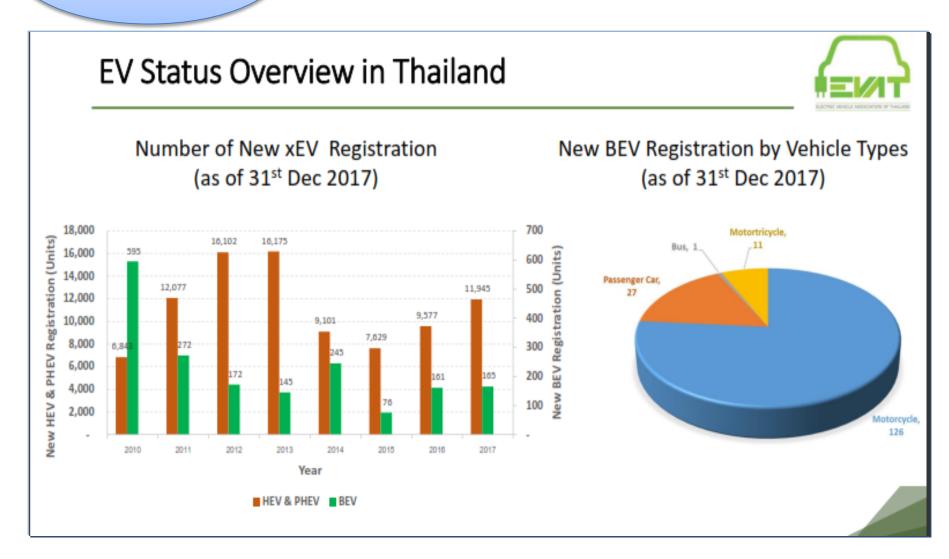


#### **High speed train Development**



#### **Improve**

#### New technologies and standardization



#### **EV Status Overview in Thailand**



#### Plug-in Hybrid Electric Vehicles (PHEV)



BMW x5 xDrive40e



Volvo XC90 Drive-E



Mercedes Benz C350e



BMW 330e



Porsche Cayenne S E-Hybrid



Mercedes Benz \$500

#### EV Status Overview in Thailand



#### Battery Electric Vehicles (BEV)



Leabon Tuk Tuk



FOMM Concept one



BYD e-6



Hyundai ioniq electric



Kia Soul EV









Nissan LEAF



Tesla Model X

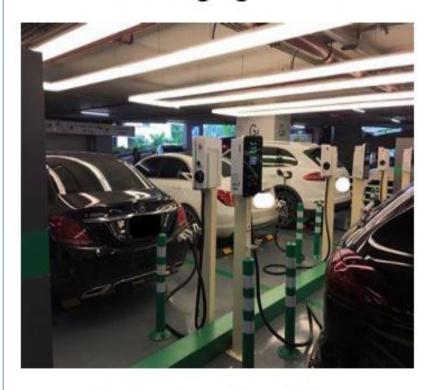


FOMM AWD Sport

#### **EV Status Overview in Thailand**



#### **Public Charging Stations in Thailand**



Paragon Department Store



Pollution Control Department

#### **Improve**

#### New technologies and standardisation

Inspection and Maintenance Programme

- All vehicles are required to pass the in-use vehicle standards prior to the renewal of license.
- Preventive Maintenance helps reduce PM up to 65% and save fuel consumption up to 30%
- Roadside Inspection reduces emissions from in-use vehicles

Implementing of Euro standards to new vehicles.

- -Right now, all passenger cars, vans and light duty vehicles are in Euro IV and will be up to Euro V in 2023
- Buses and trucks are Euro 3 standard and will be up to Euro V in 2026
- Motorcycles is under EC standard and can comply as Euro 4 in 2062





## **Cross cutting**

#### Safety, Health, Air quality, Climate Change ...

Moscow
Declaration
on decade of
Road safety

Energy security:

Promotion of alternative energy use in Transport sector

Bio- diesel and Bio-ethanol was in market place

EURO 4 standard and Inspection & Maintenance

Safety:

Thailand Road safety Action plan

EST cross cutting

Air quality and health impact:

Reduce traffic congestion in inner city , collaboration with traffic police and BMA Climate Change: Target of GHGs reduction from transport sector

> Most of target come from Shift and Improve

COP21-CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

Target of GHG reduction of the transport Sector is 31 Mt-CO<sub>2</sub>e

#### **Conceptual Framework of**

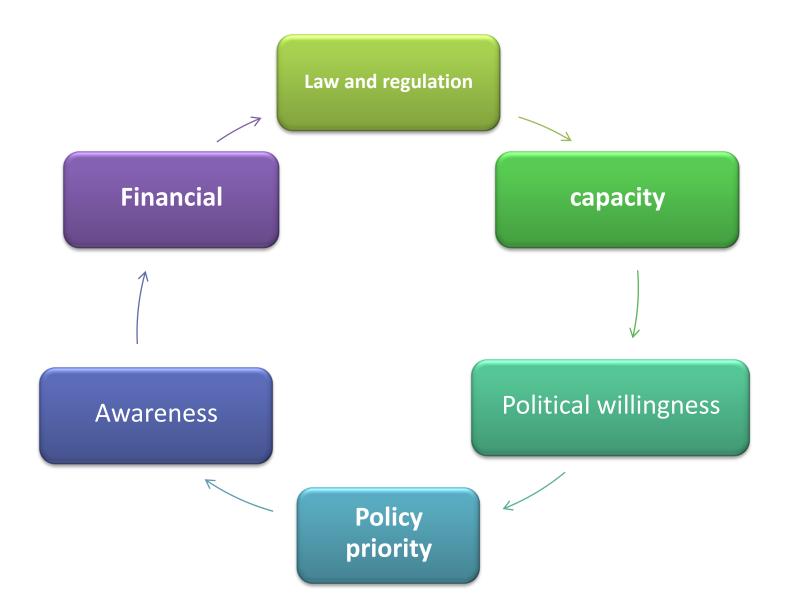
20 years Thailand Transport Systems Development Strategy (2017 – 2036)



- S & X
- **Inclusive Transport**
- Conveniently access to transport services with affordability
- Universal design/Transport for All

- Transport and logistics efficiency
- Logistics cost management
- Enhancement of transport network

#### **Challenges and Difficulties**







## Thank you for your attention

