

Environmental Sustainable Transport and Climate Change Mitigation Master Plan

8th ATRANS Symposium Bangkok

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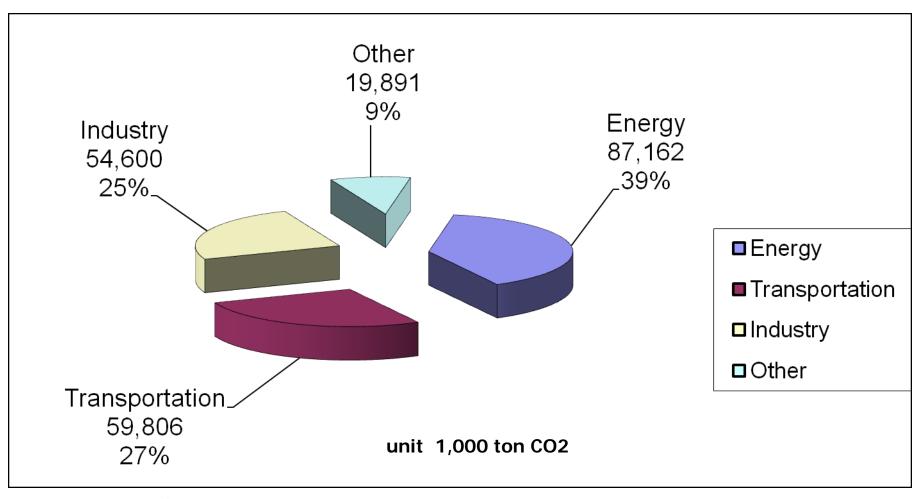


Topic

- Background
- Environmental Sustainable Transport and Climate Change Mitigation Masterplan
- Non Motorized Transport :NMT Master plan

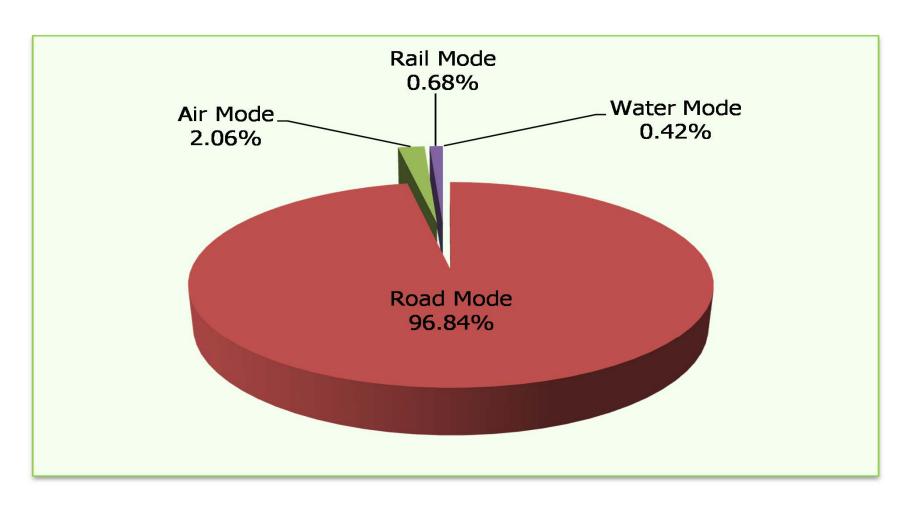


GHGs Emission by Sector: 2011



Source: Thailand Energy Statistic 2012

Volumes of Greenhouse gas released by Thailand's Transport Sector



Source: National Greenhouse Gas listing

11th Thailand National Economic and Social Development Plan (Transport Sector During Year 2010-2015)

International Trade Agreement

Climate Change Sub – regional Corporation

Energy

Aging Society

Green Transportation

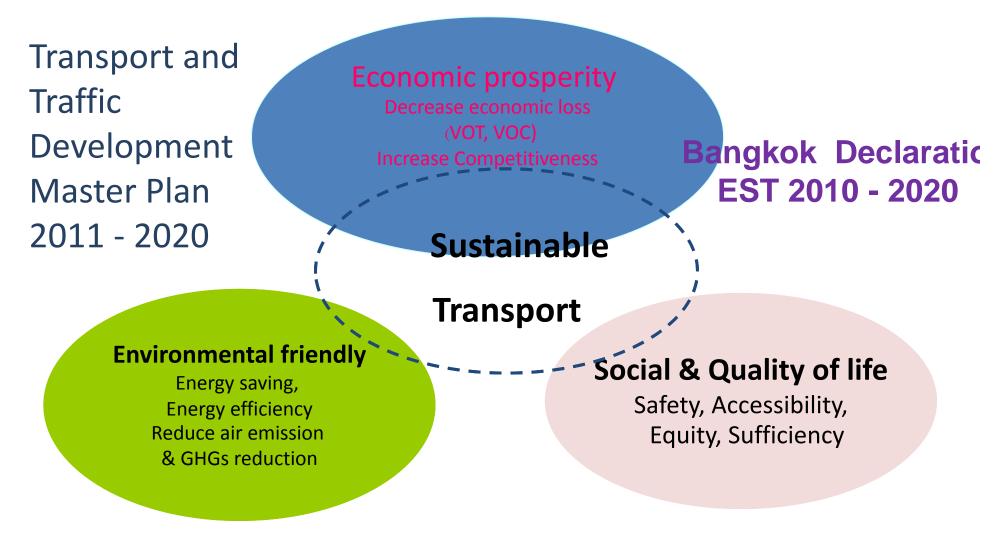
- Change to Alternative Energy, Green Energy and Efficiency use in Energy
- Road and Rail integrated Network around country and Neighboring Country
- Improve Multi-modal Transportation
- Improve Transport System, Efficiency, Effectiveness, Accessibility, Safety, Transport for all, (Aging people and Handicap)
- More Public Private Participation(PPP) Investment

Linkage of National Strategic Formulation through Transportation Planning



Ministry of Transport

Vision: Toward Sustainable Transport



Master Plan Development

Internal Driving force

International Driving

Force : EST forum,

Rio+20, UNFCCC

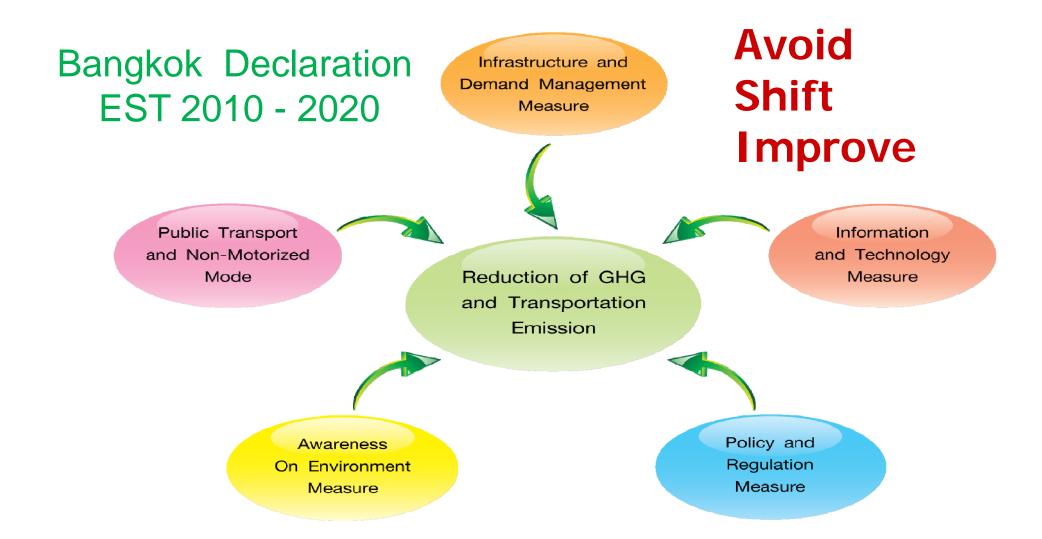
Environment

Economic

Social

Environmental Sustainable Transport Masterplan

SUSTAINABLE TRANSPORT MASTER PLAN



Strategy 1: Upgrade capability of agencies and personnel for the development of an environmentally sustainable transport system.

Strategy 2: Establish appropriate plans and mechanisms for interfacing and monitoring of transport and traffic work plans/measures/projects; and to move them forward to implementation.

Strategy 3: *Establish comprehensive and inter-connected transport infrastructure.*

Strategy 4: Efficient transport management for sustainability and greenhouse gas reduction.

Strategy 5: Promote transport R&D and adoption of environment-friendly innovations and technologies.

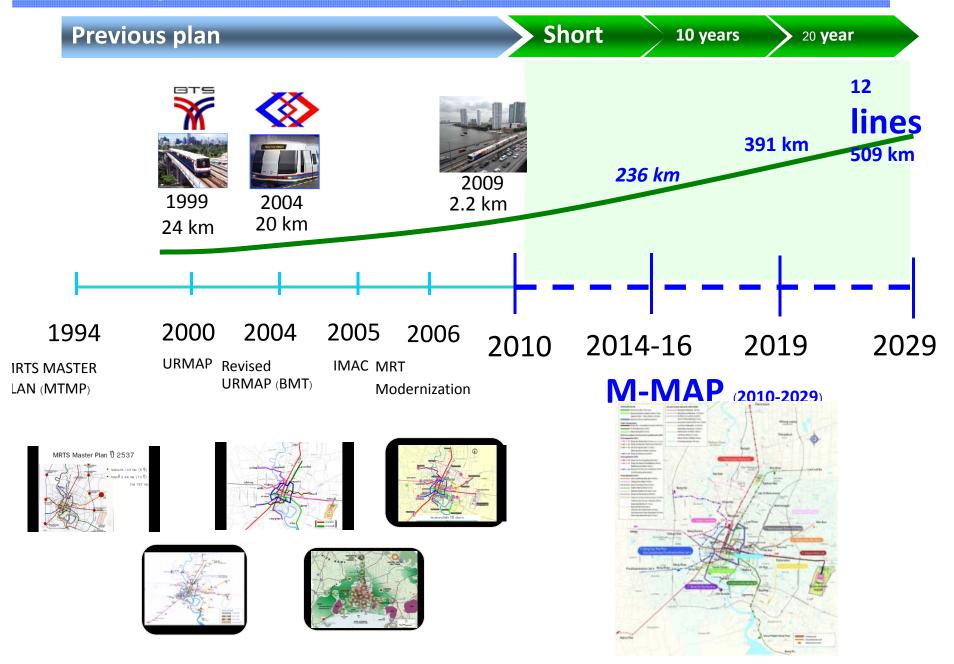
Strategy 6: Promote public awareness of the environment.

Potential GHGs reduction in Transportation Sector

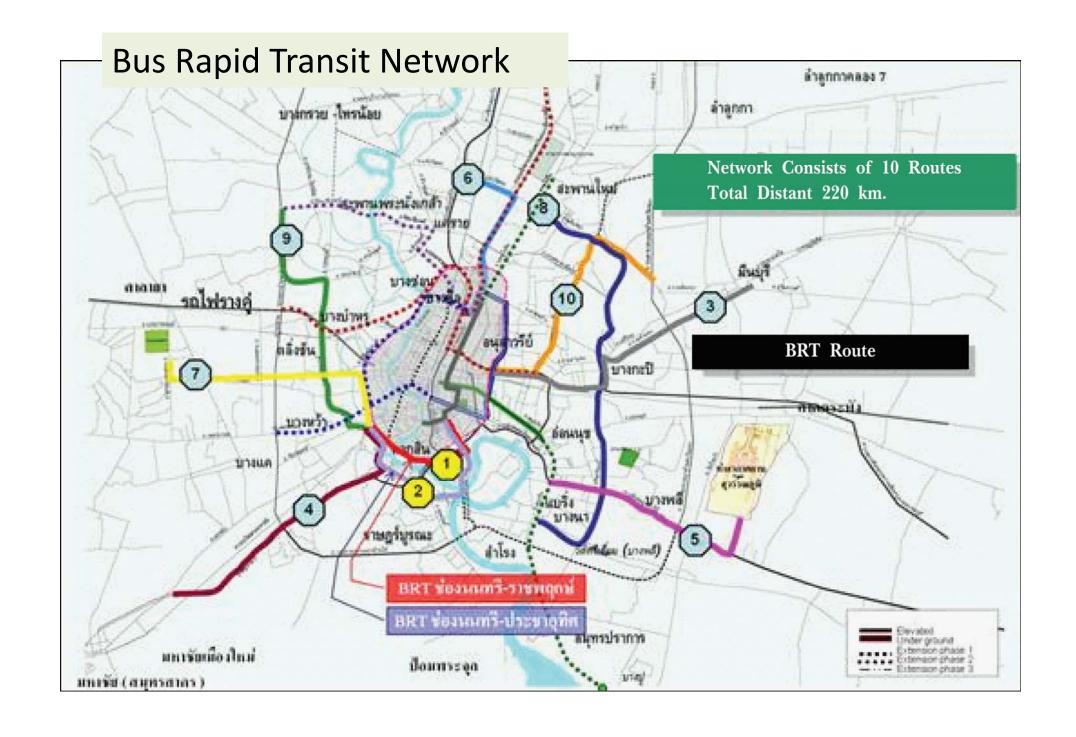
Year	GHGs at BAU (Million tons CO ₂ e)	Potential of GHGs reduction	
		(Million tons CO ₂ e)	%
2005	57.52	-	-
2017	67.53	11 - 13	16 - 19
2020	74.02	15 - 16	20 - 22
2030	102.82	27 - 30	26 - 29

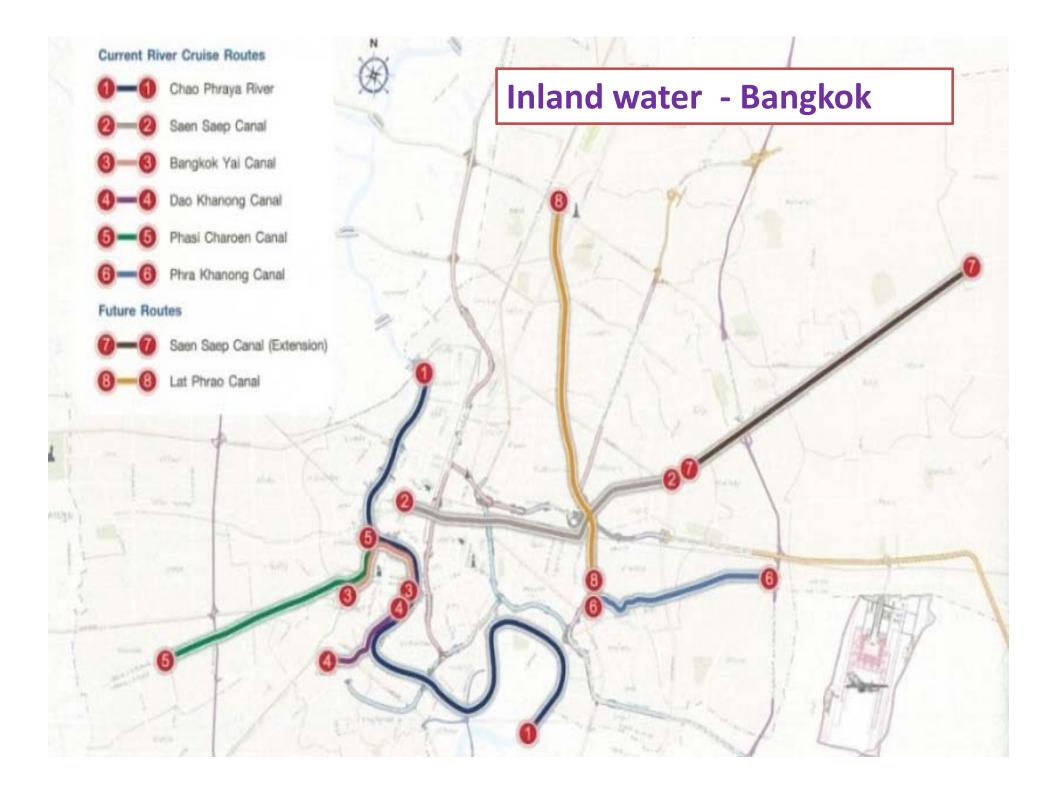
Source: OTP, 2013

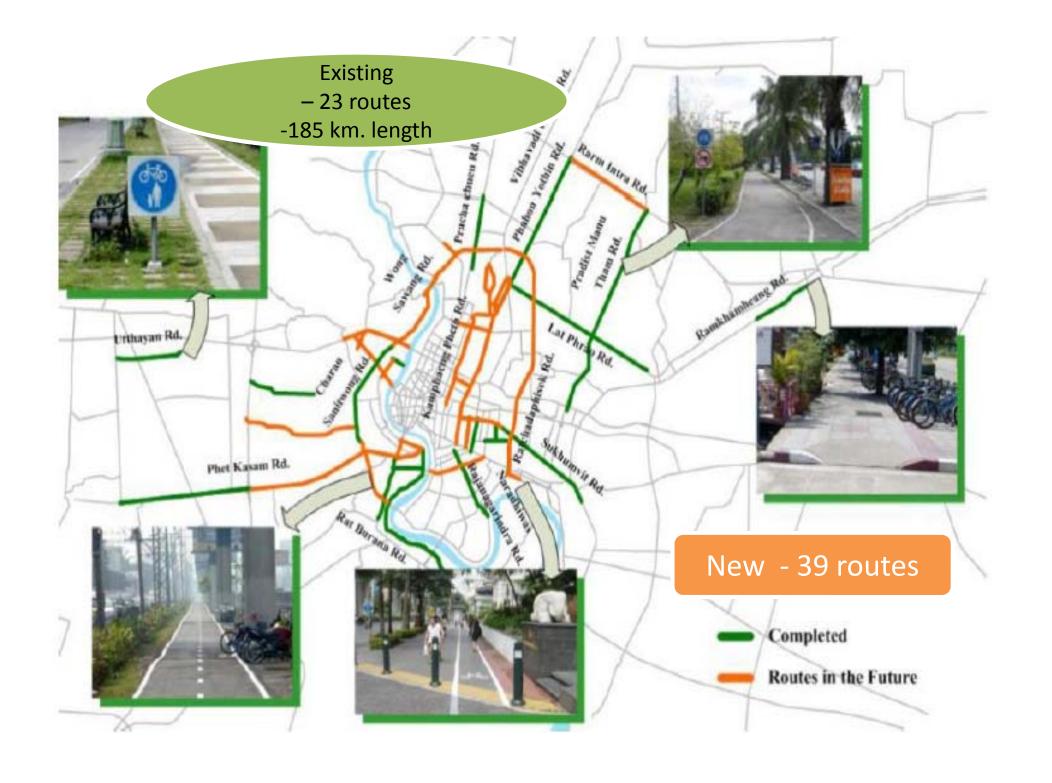
Mass Rapid Transit Master plan





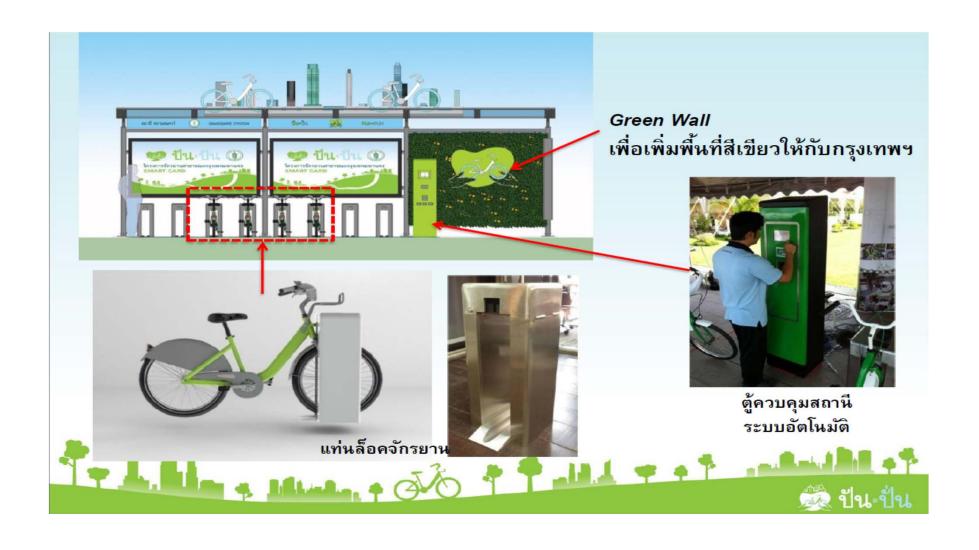






Current NMT Facility in Bangkok

Pun Pun Public Bicycle Project



Current NMT Facility in Bangkok

Pun Pun Public Bicycle Project























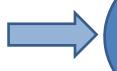


Non-Motorized Transport (NMT) project

Non-Motorized Transport project (started from 1 November 2013 – 31 August 2014) Connect the link between each mode of Transport

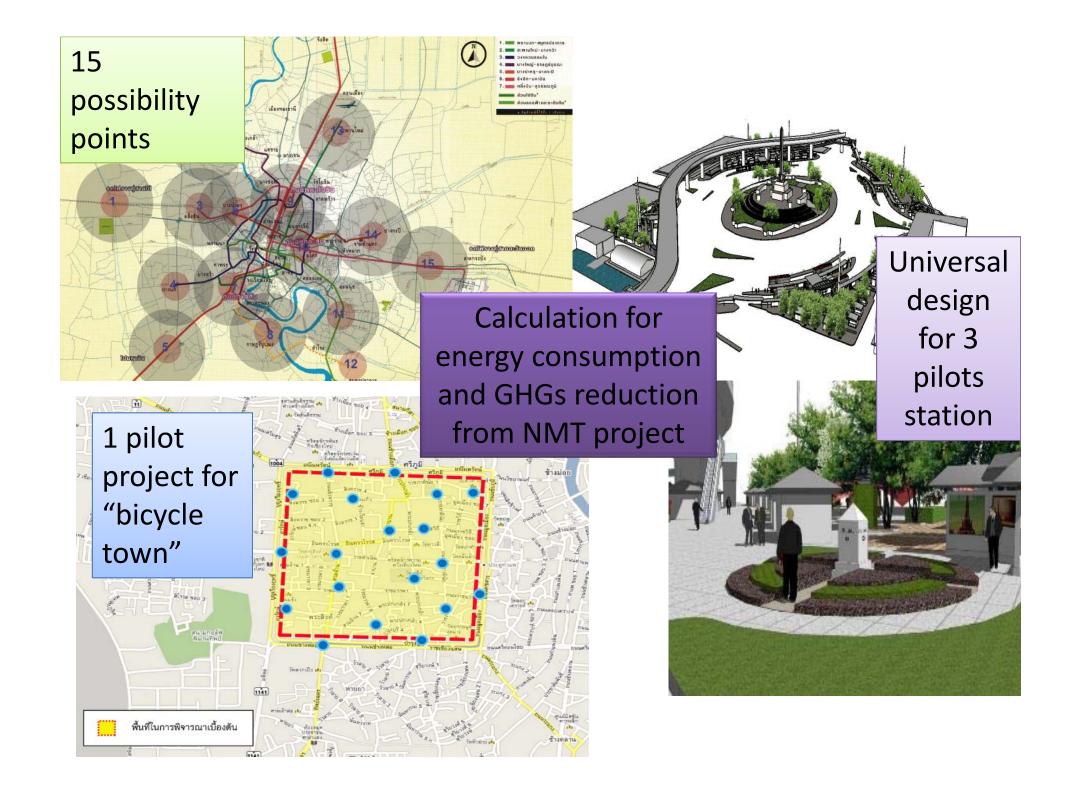
- 3 pilot
projects in BMR
- 1 pilot
"bicycle town"
- Energy
consumption
reduction
- GHGs emission
reduction

National Health Assembly



Cabinet

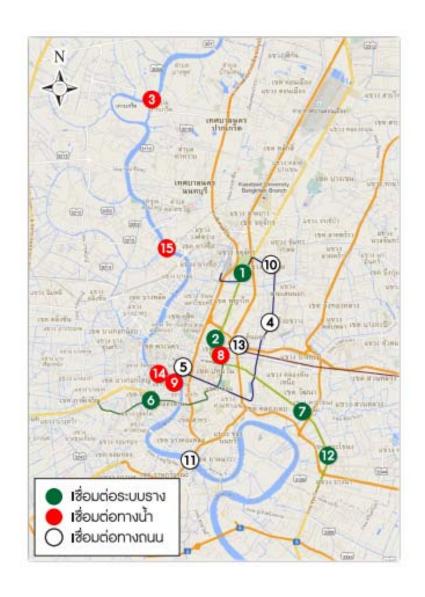
resolution on 19
November 2013
approved the
promotion of "Bicycle
use in daily life"



Target of OTP's NMT project

- To unify the policy of Non Motorized Transport in Public and Private sector in support of NMT in connection with Public Transport Modes
- To create NMT Master Plan that serve the transport need of the people in Greater Bangkok toward sustainable transport
- To create awareness and public participation in using NMT as alternative to private car
- To calculate the energy consumption and GHGs reduction from NMT project in order to submit as NAMAs project.

15 Possibility Points: BMR



- 1. Mor-Chi BTS Station
- 2. Phayathai BTS Station
- 3. Pakkret Boat Station
- 4. Pharam 9 MRT Station
- 5. Hualumpong Bus Station
- 6. Phonimit BTS Station
- 7. Prakanong BTS Station
- 8. Sapan Withayu Boat Station
- 9. Ratchawong Boat Station
- 10. Ladprow Bus&MRT Station
- 11. Pharam 9 Bus Station
- 12. Udomsuk BTS Station
- 13. Ratcharop BTS Station
- 14. Sapan Phut Boat Station
- 15. Wat Tuk Boat Station

3 Pilot Project : Details Design









Mo Chit Bus Stop and BTS Station Phaya Thai BTS Station Pak Kret Pier



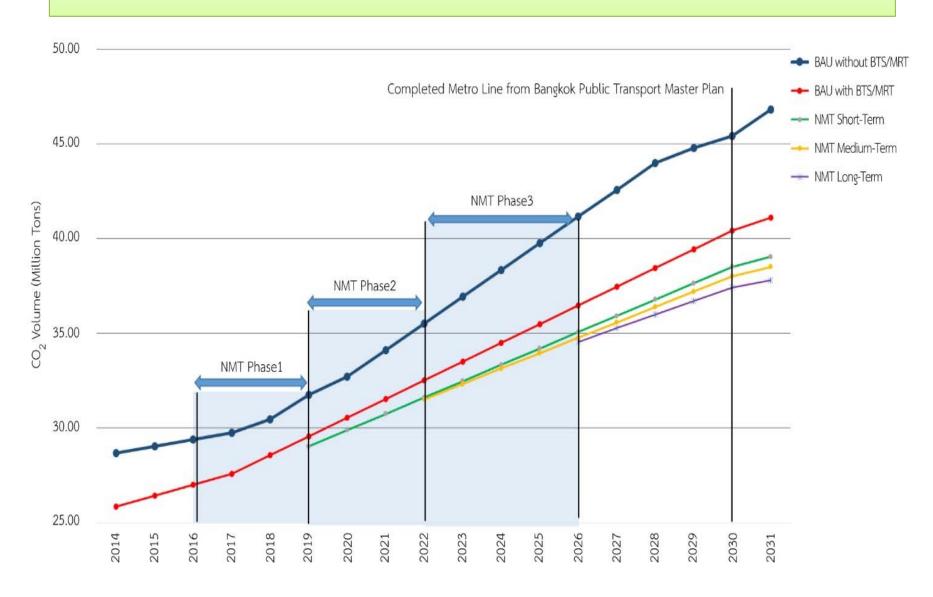


NMT connection with rail transport

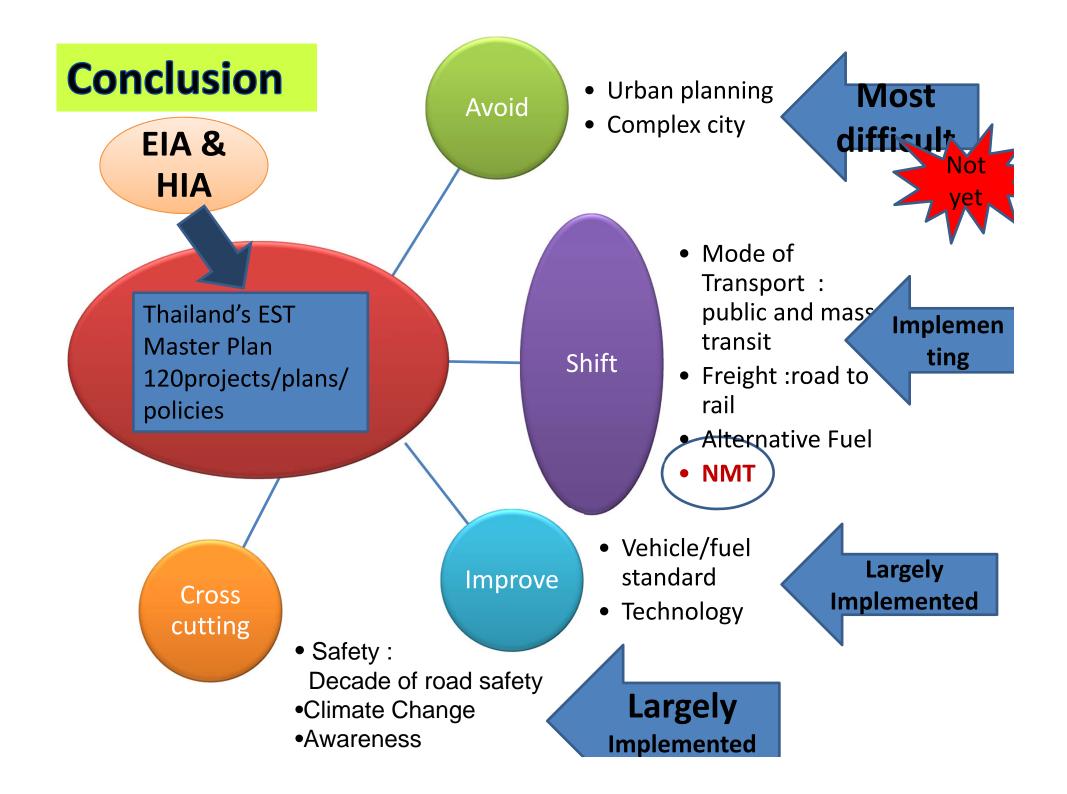
NMT connection with river boat transport

NMT connection with road and rail transport

GHGs reduction from NMT project



Source: OTP, 2015





Thank you for your attention

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