Climate - friendly Transport development for Thailand
Berlin, 18 September2017

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TOPIC

- Current situations
- NAMAs and NDC in Transportation
- People-centered Urban Mobility in Thailand

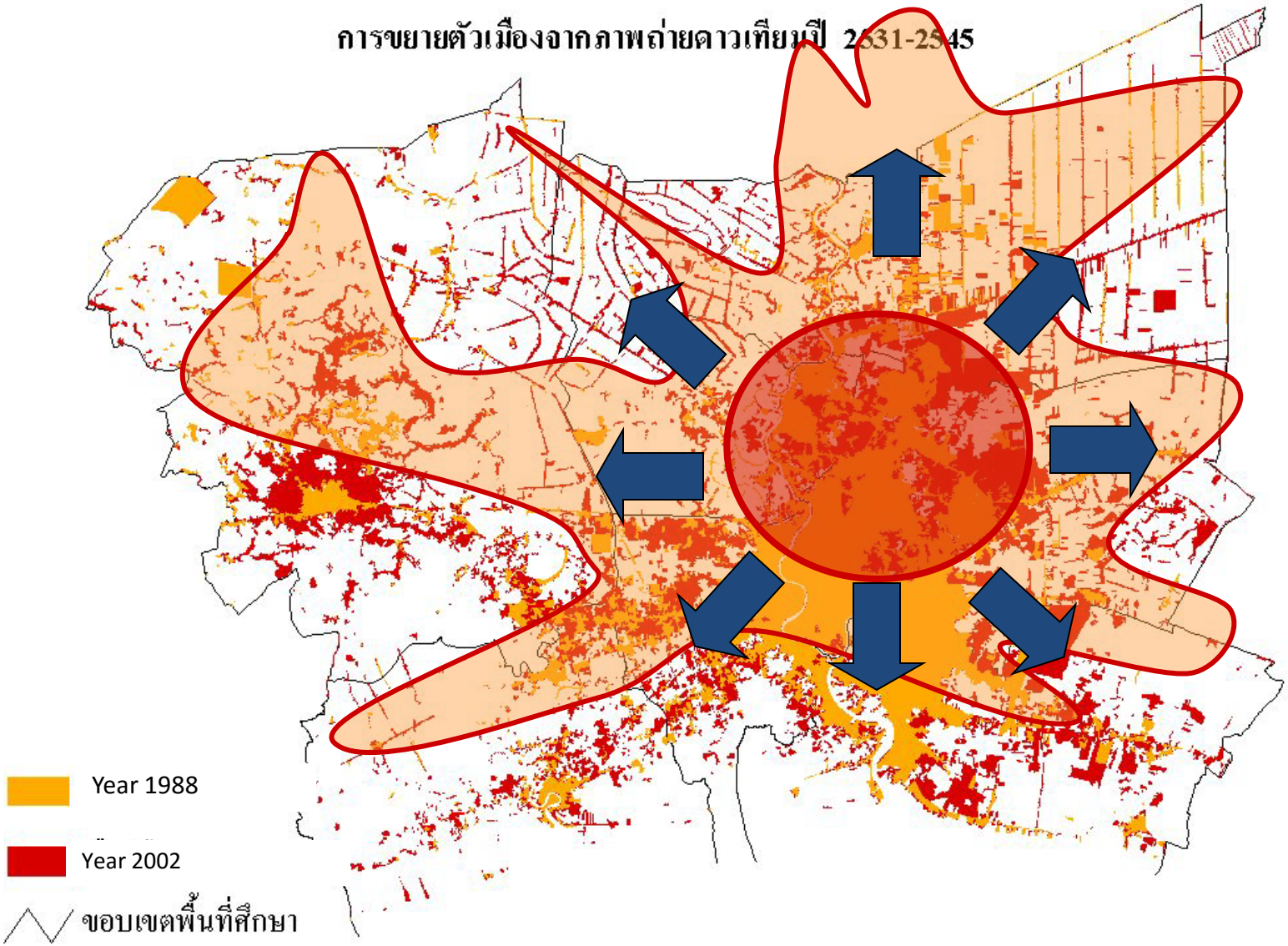
Bangkok Metropolitan Region , BMR
POPULATION : 17.5 millions
AREA : 7,760 sq.km.
GDP 68 % of National GDP

Bangkok Metropolitan

Panorama

Ministry of Transport

Bangkok's Land Use (Urban Sprawl)



Bangkok situation

Quality of Life

The CO_2 PROBLEM IS A TRANSPORT PROBLEM, PREDOMINATELY CARS AROUND URBAN AREAS

Travel Pattern of people in Bangkok

Total

22

Mil.Trips/Day

Mass Transit 3.5%

Bus 36.4%

7.98
Mil. trips/Day

BTS

0.64
Mil. Trips/Day

MRT

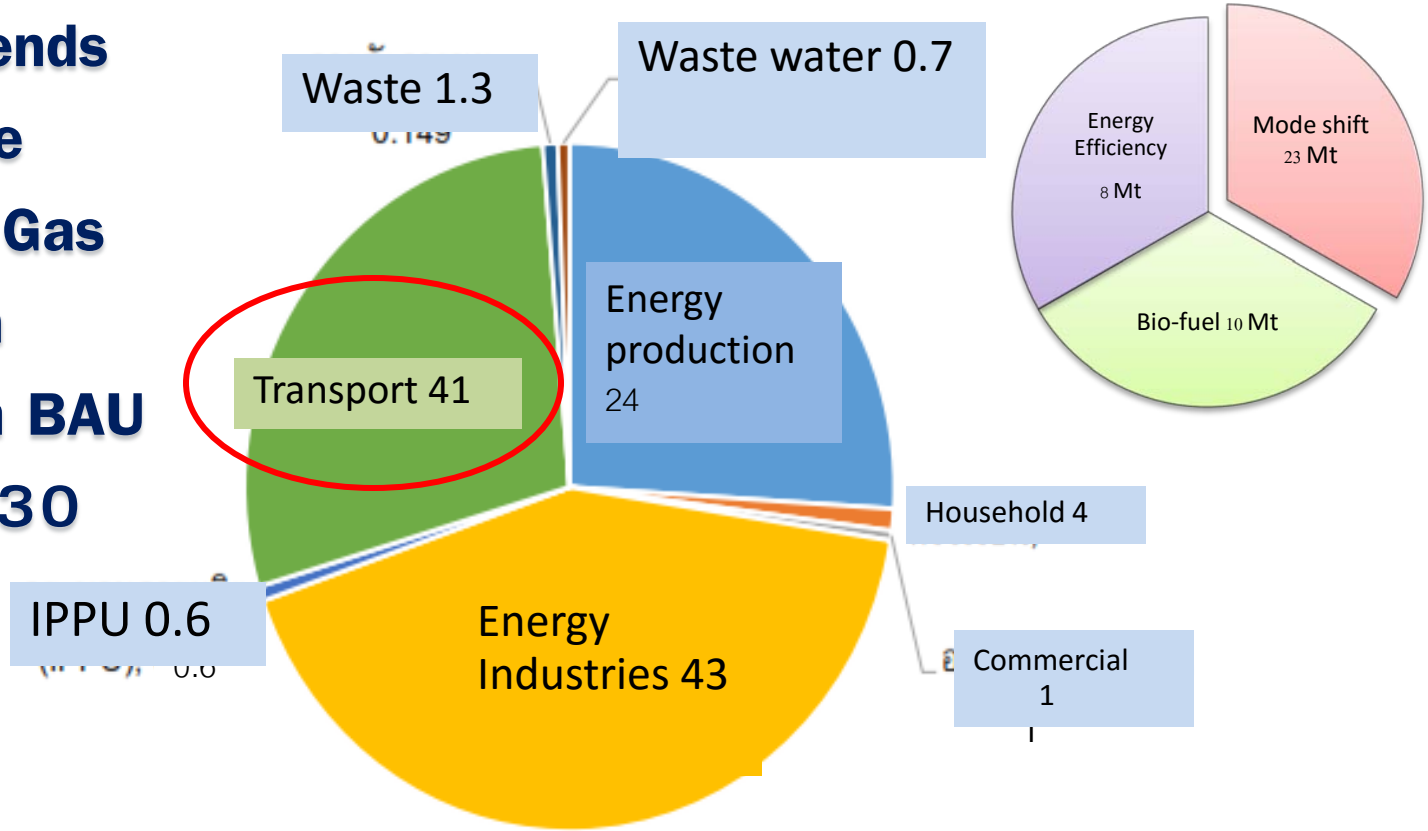
0.22
Mil. Trips/Day

Car 56.9%

12.5
Mil. Trips/Day

Thailand's National Determined Contribution

Thailand Intends to Reduce Greenhouse Gas Emission By 20% From BAU Level By 2030

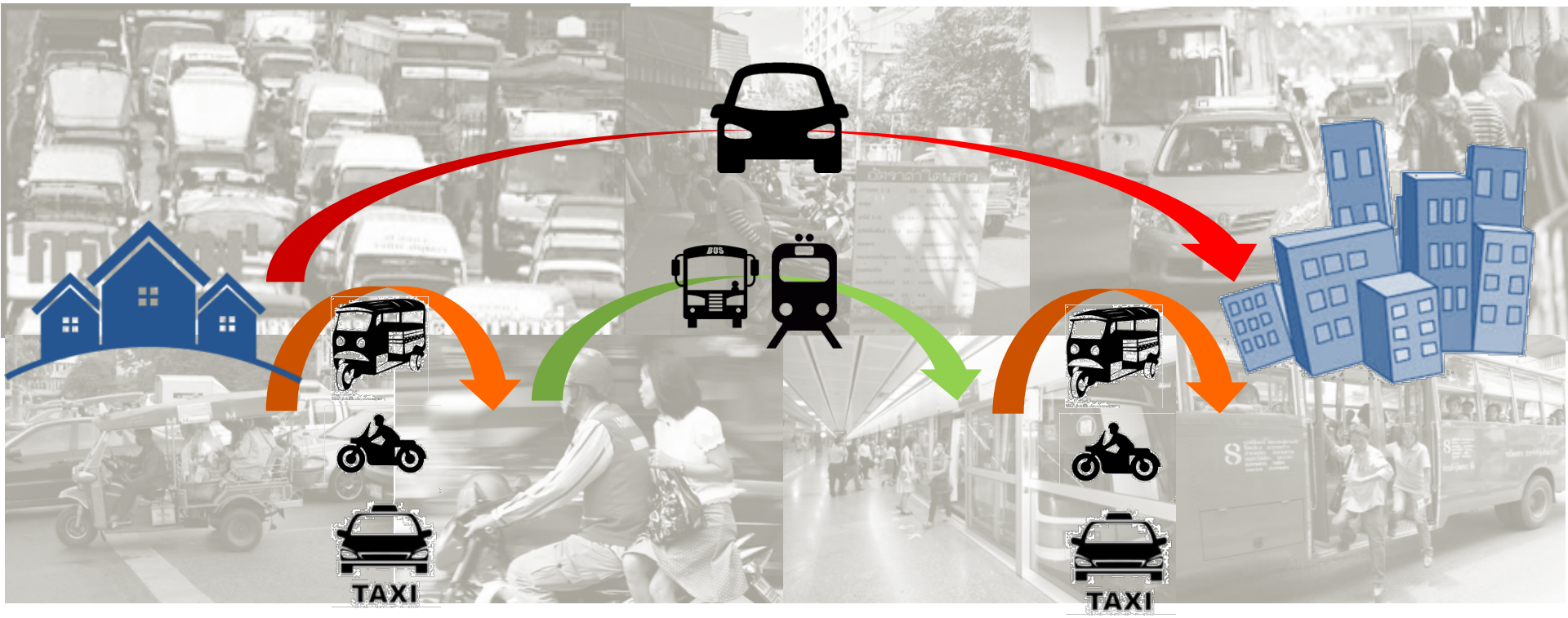


115.6 $MtCO_2$

(ร้อยละของการลดก๊าซเรือนกระจก, ผลรวมคิดเป็นร้อยละ 20 ณ ปี ค.ศ.2030)

People-centered Urban Mobility in Thialand

Baseline

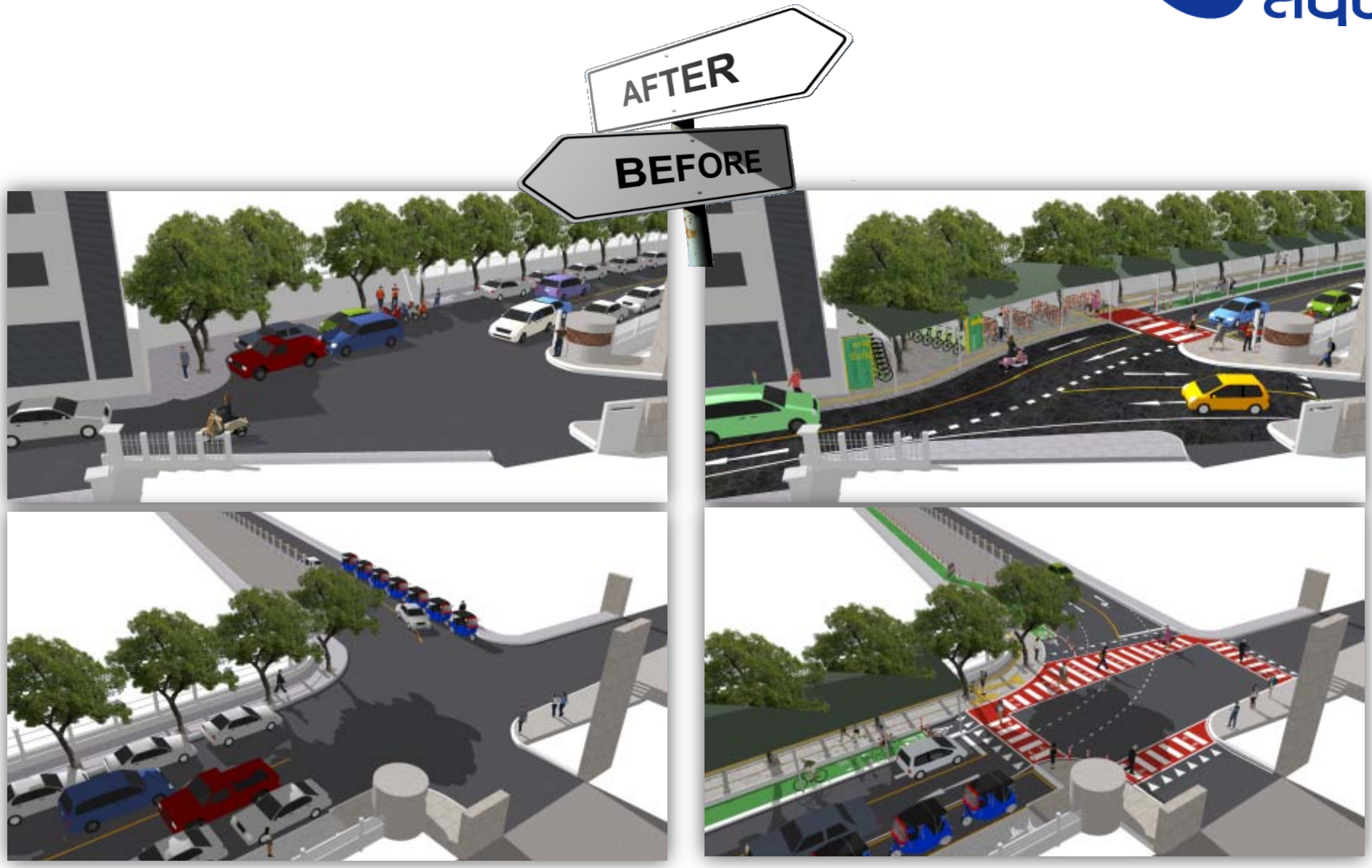


Existing means of passenger transport in urban areas

National Policy Framework promoting Bus and NMT as feeder modes

	Bus Public Transport Management		Non-Motorized Transport Accessibility		
Infrastructure	Improved bus stations	Dedicated bus lanes / BRT	Cycling (Parking, bike lanes, unblocking sois)	Walking (PT stations, Street crossings, sidewalks, cover and shade)	
Regulation & Planning	Bus route optimization and institutional reform	Bus priority measures	Parking management and pricing	Accessibility of footpaths (vendors, objects)	Shared road concepts (speed limits, signage)
Information & Communication	Real time traffic information	Branding and awareness	Awareness Campaigns (benefits and branding of PT and NMT)	'NMT-friendly Neighborhood' (Branding, events)	

Strengthening of Data and Monitoring (MRV)


AFTER
BEFORE

The design of bus routes and infrastructure for public transport connectivity

http://goo.gl/FUp87U

http://goo.gl/AArnnu

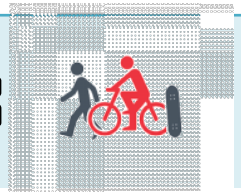
New BMTA's buses which is compatible to environmentally friendly fuel

http://goo.gl/MDkdBR

Integrated ticket

http://goo.gl/cnnDYK

Expected greenhouse gas emission reduction (rough calculation)

Activities for greenhouse gas emission reduction	The estimated greenhouse gas emission reduction in 2030* (million ton CO_2)
1) Urban Public Transport Connectivity by Non-Motorised Transport (NMT)	0.05 – 0.3 
2) Public transport management	0.1 - 0.7
Total	0.1 – 1.0

Improving public bus services and Non-Motorised transport in Bangkok

Conclusion

- This concept can be replicated to new construction public transit lines in the future
- Need the improvement in all aspects: Infrastructure, Regulation and planning and Information and communication
- Need cooperation from various stakeholders
- Need to raise public awareness to people

The number of station according to rail network master plan (after adjusted gray line)

Interchange station	: 52 stations
non-interchange station	: 222 stations
Total station	: 274 stations

Rail transit network master plan in Bangkok and vicinities