

New ITS Plans for Bangkok, Thailand

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EXECUTIVE SESSIONS

ES02 May 9, 16:00-17:30 / Main Hall

ITS Asia-Pacific Updates II

- ITS Asia-Pacific was firstly signed in 1999 to seek for solution with ITS against the road and transport challenges that the Asia-Pacific region were facing. Since then, the member ITS organizations have developed and deployed ITS in collaboration with the public agencies and partners in and outside the region. As the economies emerge, the transport challenges have got more complicated and the ITS domain is growing at the unprecedented speed. In this session, the ITS Asia-Pacific members and friends will present the experience the future vision to improve the "Everyone's Mobility by ITS" in the countries and areas.
- Moderator: Edward Chung, Professor, Department of Electrical Engineering, Hong Kong Polytechnic University, Hong Kong
Speakers: Young-Kyun Lee, Executive Director, Center for Overseas Business, ITS Korea, Korea
Speakers: Mohammed Hikmet, President, ITS New Zealand, New Zealand
Speaker: Ricardo Sigua, Professor, Institute of Civil Engineering, University of the Philippines Diliman, The Philippines
Speaker: Sorawit Narupiti, Associate Professor, Civil Engineering (Transportation), Faculty of Engineering, Chulalongkorn University, Thailand



ITS Master Plan in Bangkok Metropolitan Region -- February 2018



สำนักงานนโยบายและแผนการขนส่งและจราจร
Office of Transport and Traffic Policy and Planning
กระทรวงคมนาคม (Ministry of Transport)

Important Matters of Transportation in Bangkok Metropolitan Region

A nighttime photograph of Bangkok, Thailand, showing the city skyline with illuminated skyscrapers and traditional buildings. The Chao Phraya River flows through the center, with a boat visible. The foreground shows modern buildings and a residential area.

Problems that need to be solved

- Traffic Congestion
- (Traffic Safety)

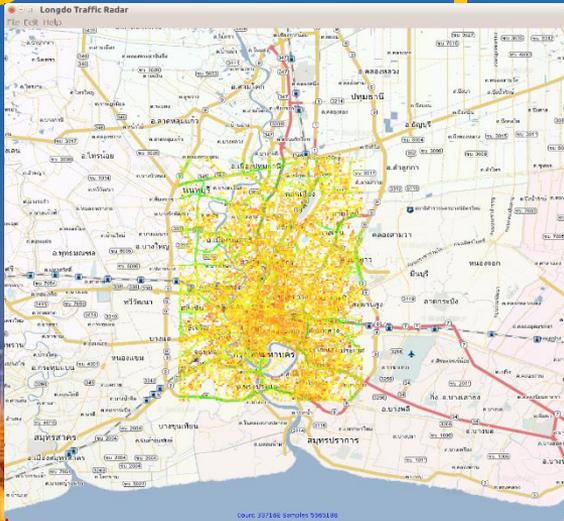
Promote the use of public transportation

Integration of transportation and traffic operations

Reduce the use of personal cars

Etc.

Important Matters of Transportation in Bangkok Metropolitan Region



Problems that need to be solved

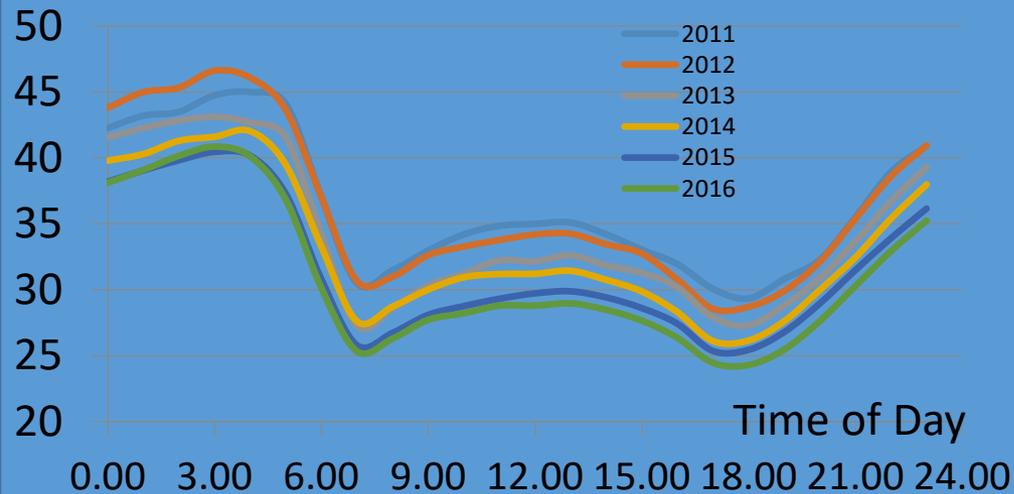
- Traffic Congestion
- (Traffic Safety)

Promote the use of public transportation

ation of transportation and traffic
tions

ce the use of personal cars

Speed (kph)



Important Matters of Transportation in Bangkok Metropolitan Region

Problems that need to be solved

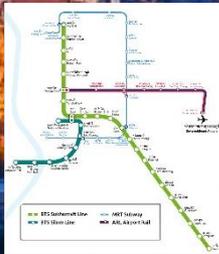
- Traffic Congestion
- Traffic Safety

Promote the use of public transportation

Integration of transportation and traffic operations

Reduce the use of personal cars

Etc.



Important Matters of Transportation in Asian Region



Purple Line (North)



Red Line (Future)



Blue Line Extension

Green Line Extension



Key Indicators

Goal	Indicators	Current	Target		
			3 Year	5 Year	10 Year
Promotion of Public Transport	The proportion of public transport users (%)	32.82	42	45	53
Mobility Improvement	Average speed on city streets network during rush hour (km / h)	22.30	28	28	28

Important Matters of Transportation in Bangkok Metropolitan Region



Problems that need to be solved

- Traffic Congestion
- Traffic Safety

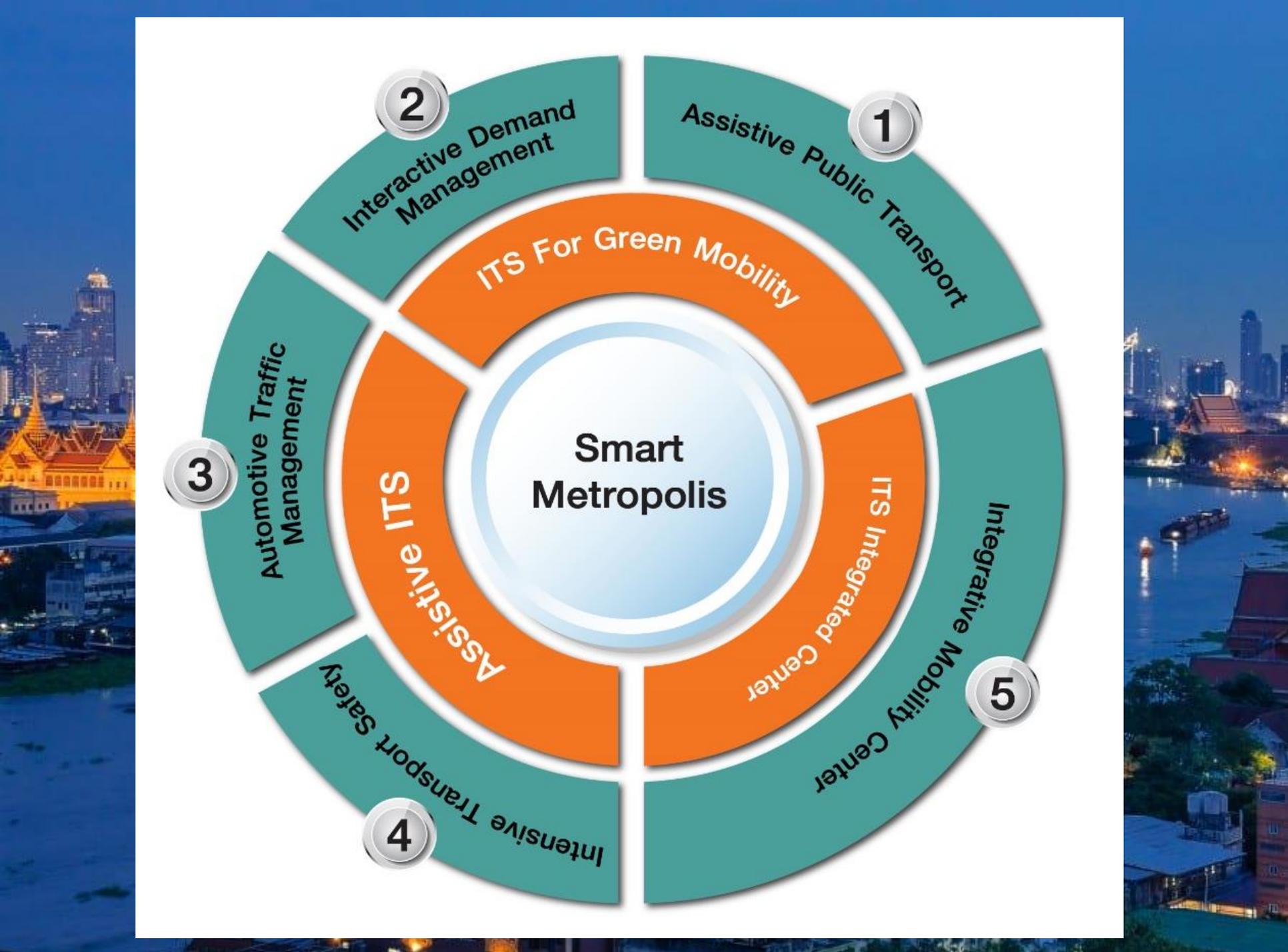
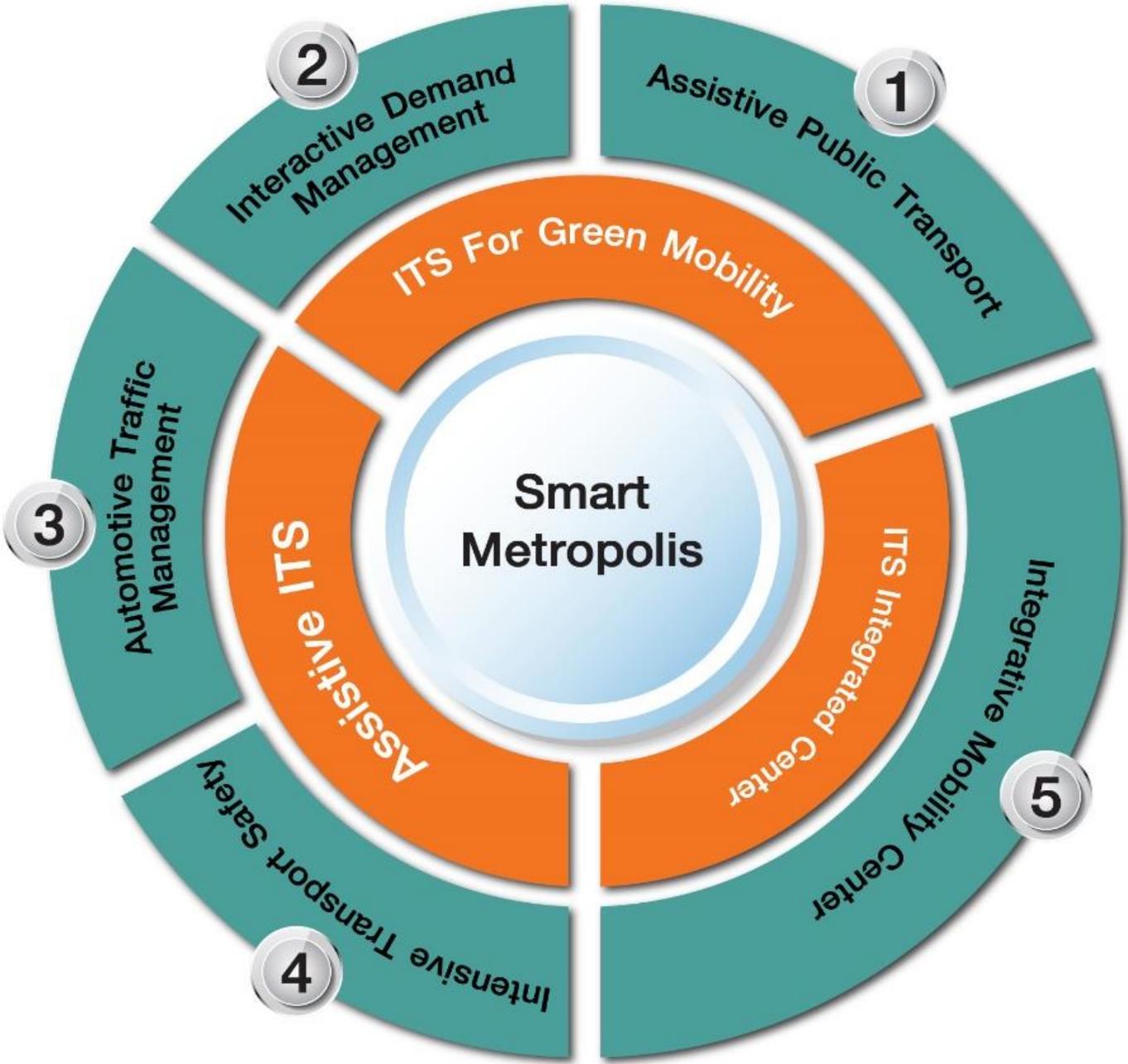
Promote the use of public transportation

Integration of transportation and traffic operations

Reduce the use of personal cars

Etc.





ITS for Green Mobility

Assistive Public Transport

- ▶ Bus Arrival Information at 30 Key Bus Stop
- ▶ Public Transport Information
- ▶ Common Ticket System
- ▶ Connected Mass Transit
- ▶ Bus Arrival Information in Bangkok and Vicinities
- ▶ Automatic Mass Transit

3 years

5 years

10 years

Strategy 1
Assistive Public Transport



Improve Public Transport

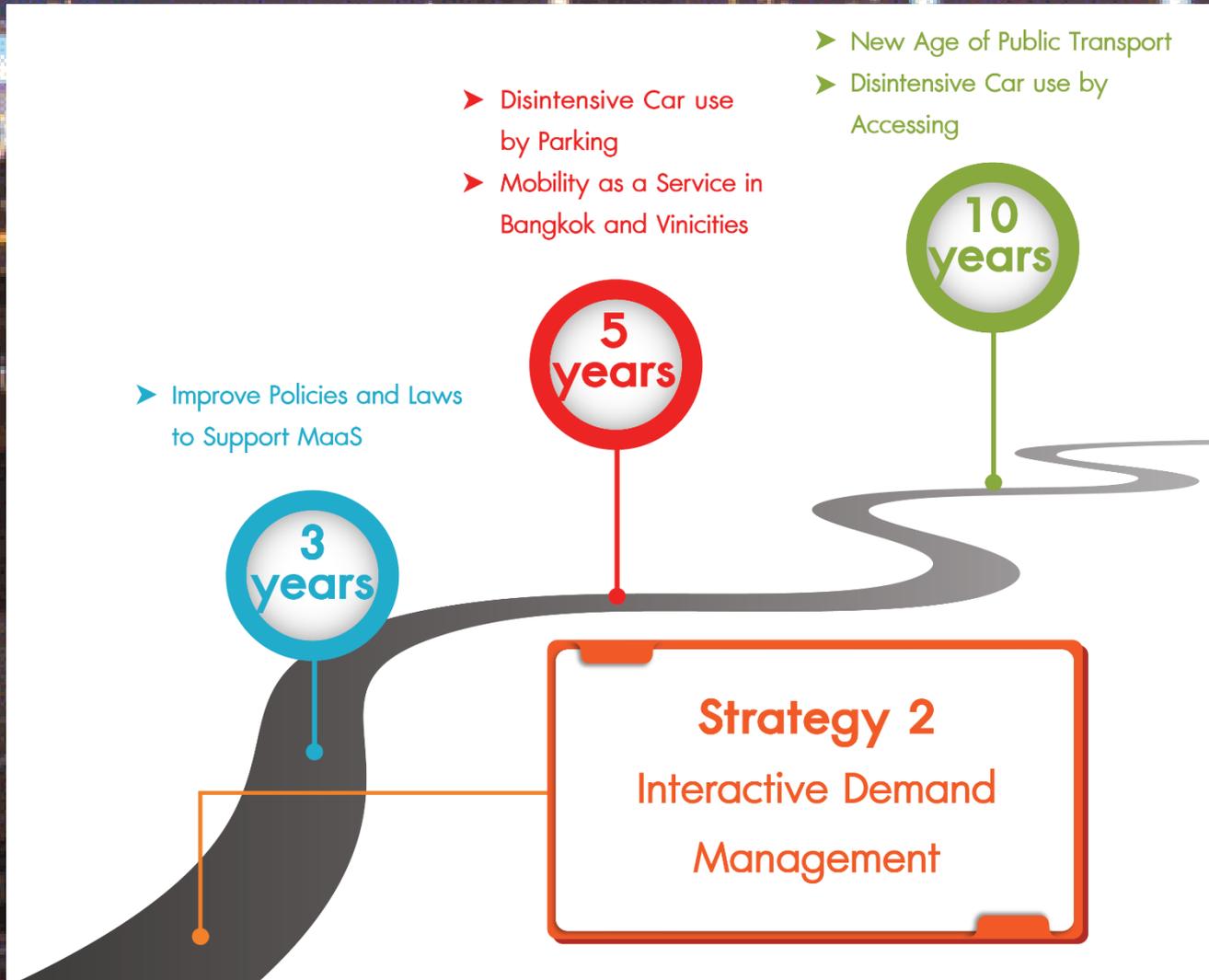


Common e-Ticket



ITS for Green Mobility

Interactive Demand Management



Mobility-as-a-Service



BRANDED CONTENT

MOBILITY-AS-A-SERVICE อนาคตที่สดใสของคนใช้ขนส่ง มวลชน

Assistive ITS

Automotive Traffic Management



Traffic Information Navigation System Journey Planner



Thailand Journey Planner

ROUTING

Origin

Destination

↕

↕

Enter Journey Details

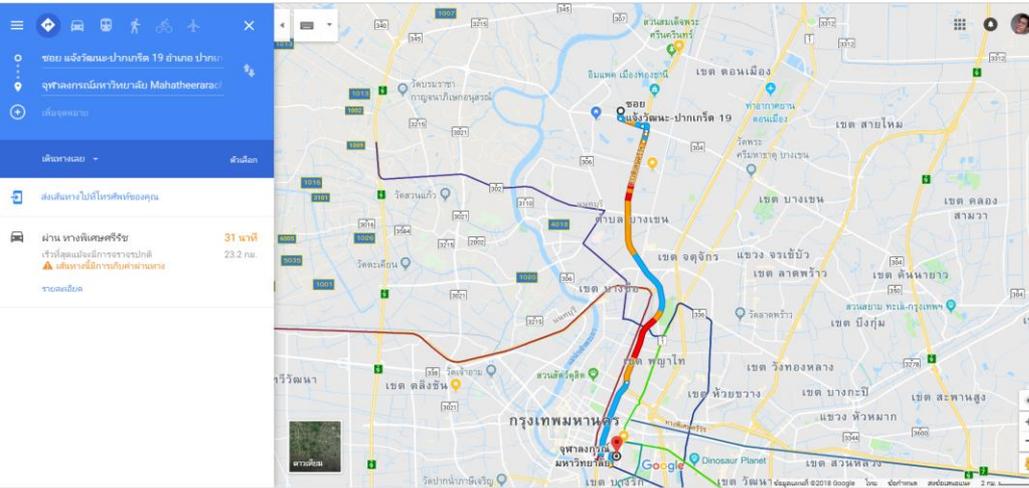
Starting from - Going To

Select Journey Result

Show the best routes with multimodal mode, travel time and cost for your journey

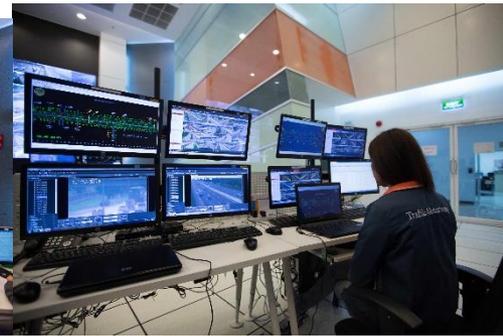
Display Route Result

Show route information



ป้ายจราจรอัจฉริยะ

Traffic Control Center

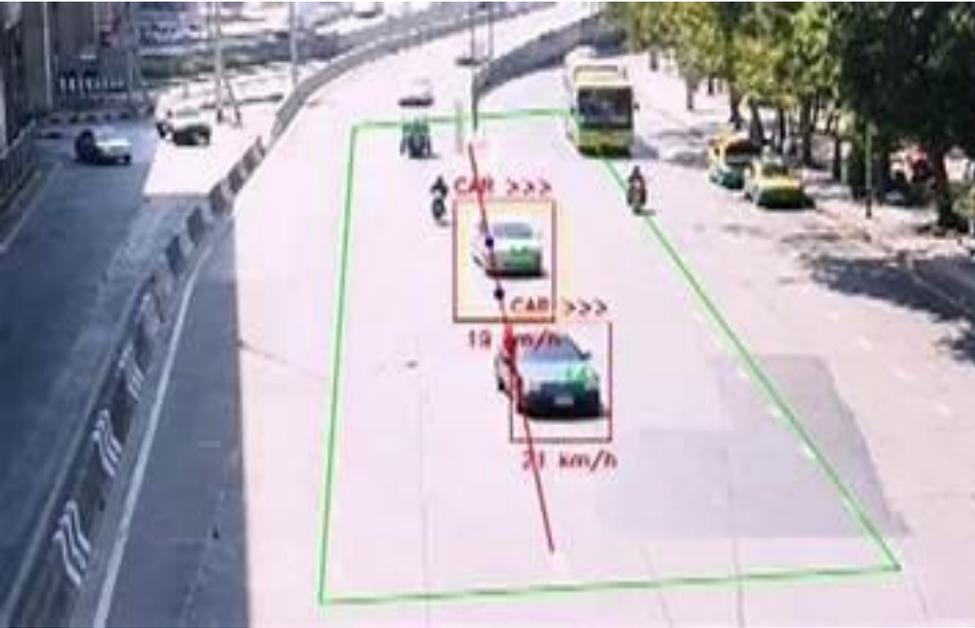


Assistive ITS

Intensive Safety Management



Law enforcement

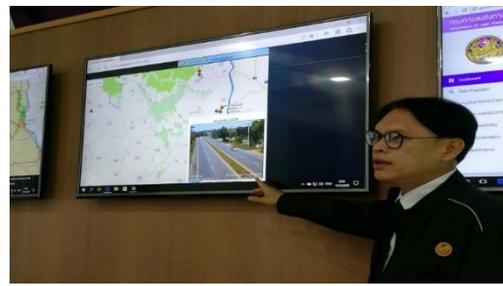
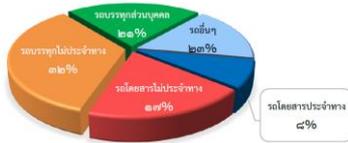


Law enforcement using GPS Tracking

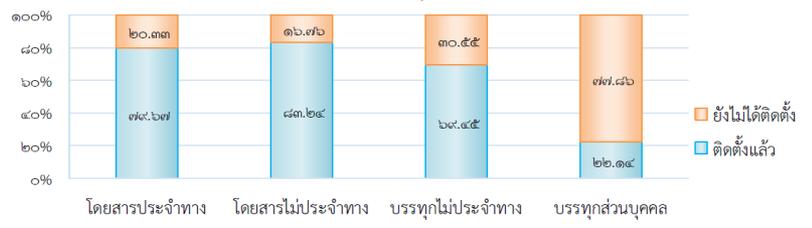


๓. จำนวนรถที่เชื่อมต่อข้อมูลกับศูนย์ GPS หน่วย : คัน

รถโดยสารประจำทาง	รถโดยสารไม่ประจำทาง	รถบรรทุกไม่ประจำทาง	รถบรรทุกส่วนบุคคล	รถอื่นๆ	รวม
๒๑,๑๐๔	๔๙,๒๔๙	๘๘,๐๘๒	๕๖,๖๑๗	๕๖,๒๔๓	๒๕๗,๒๙๕



สถิติการติดตั้ง GPS ของรถทุกประเภท (ร้อยละ)



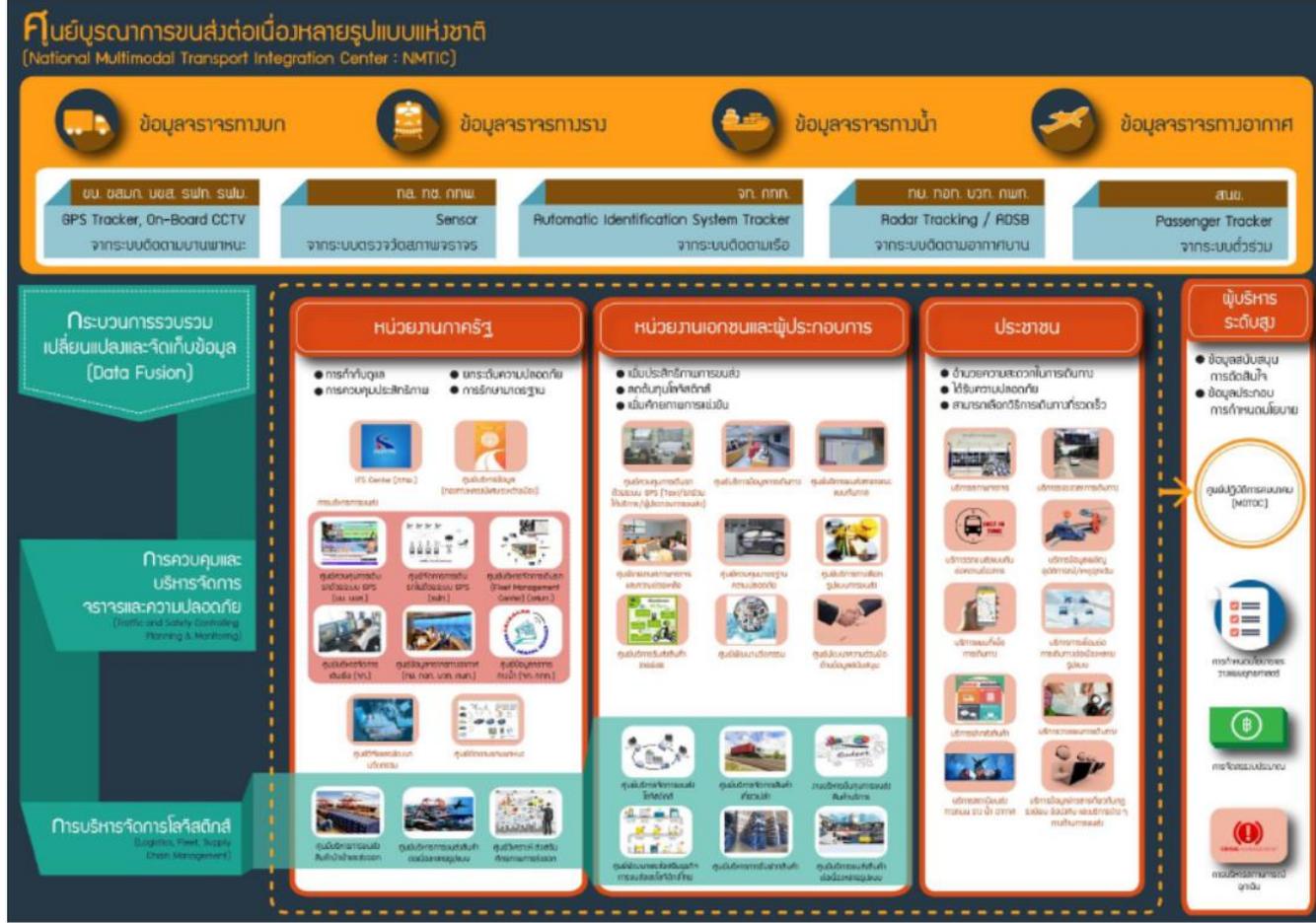
ITS Integrated Center

Integrative Mobility Center

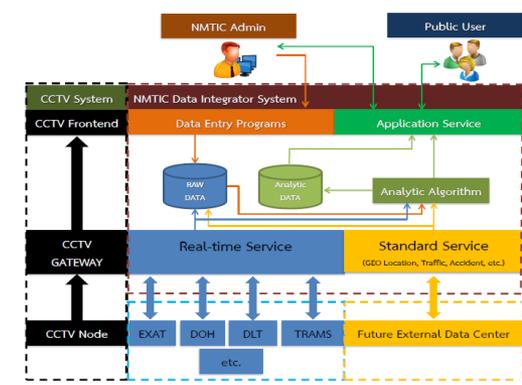


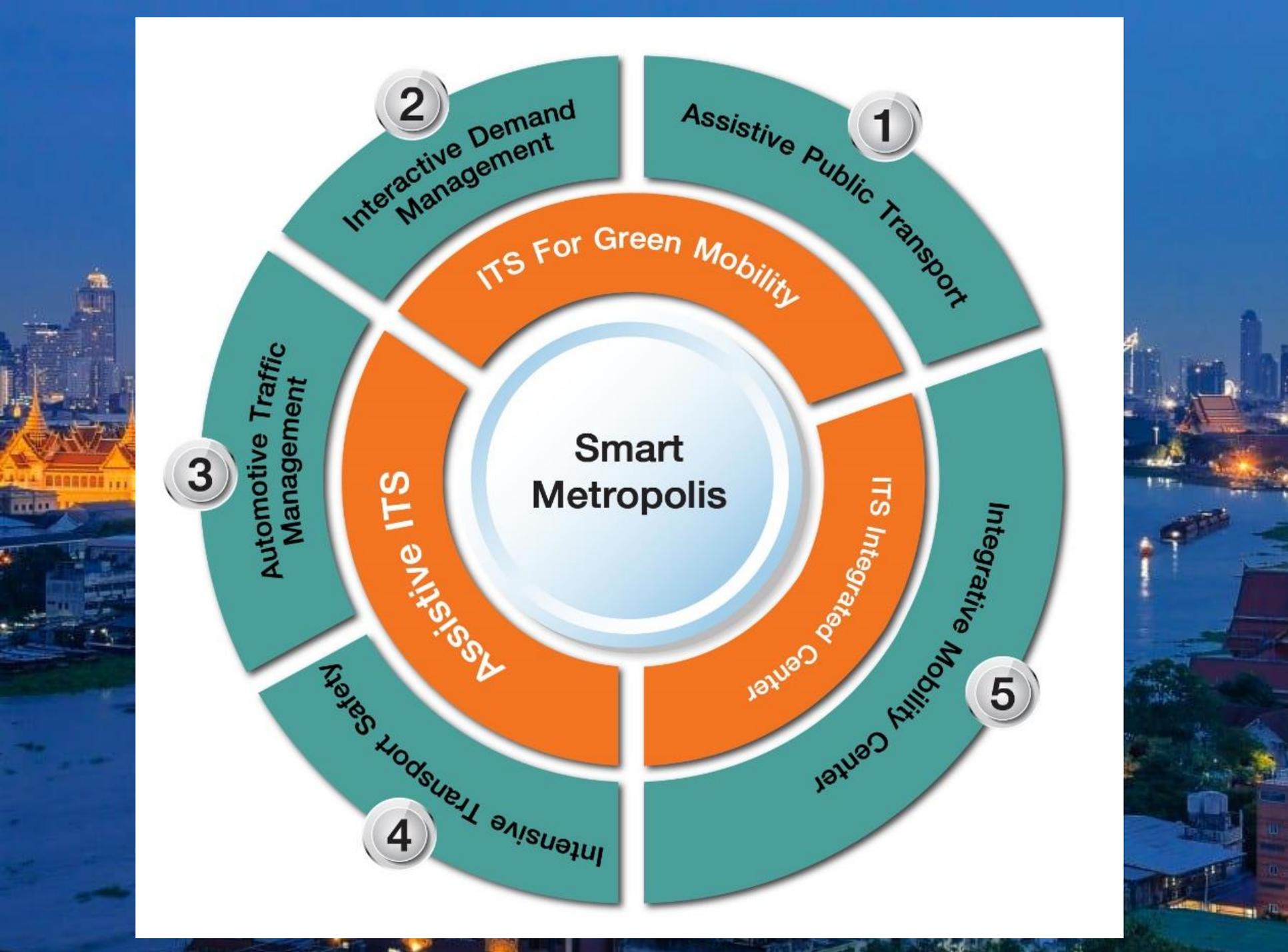
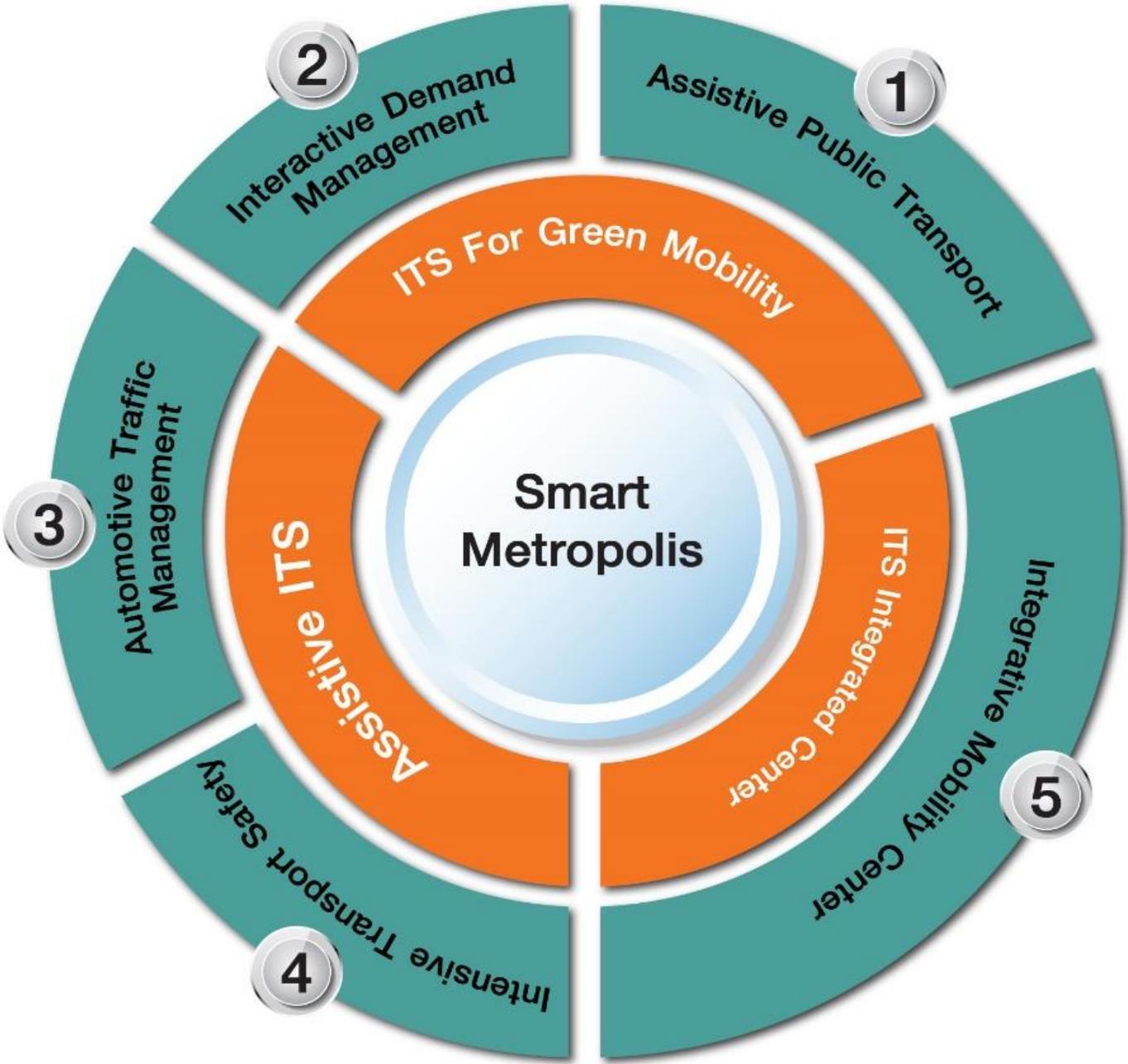
Mobility Center = Data Integration

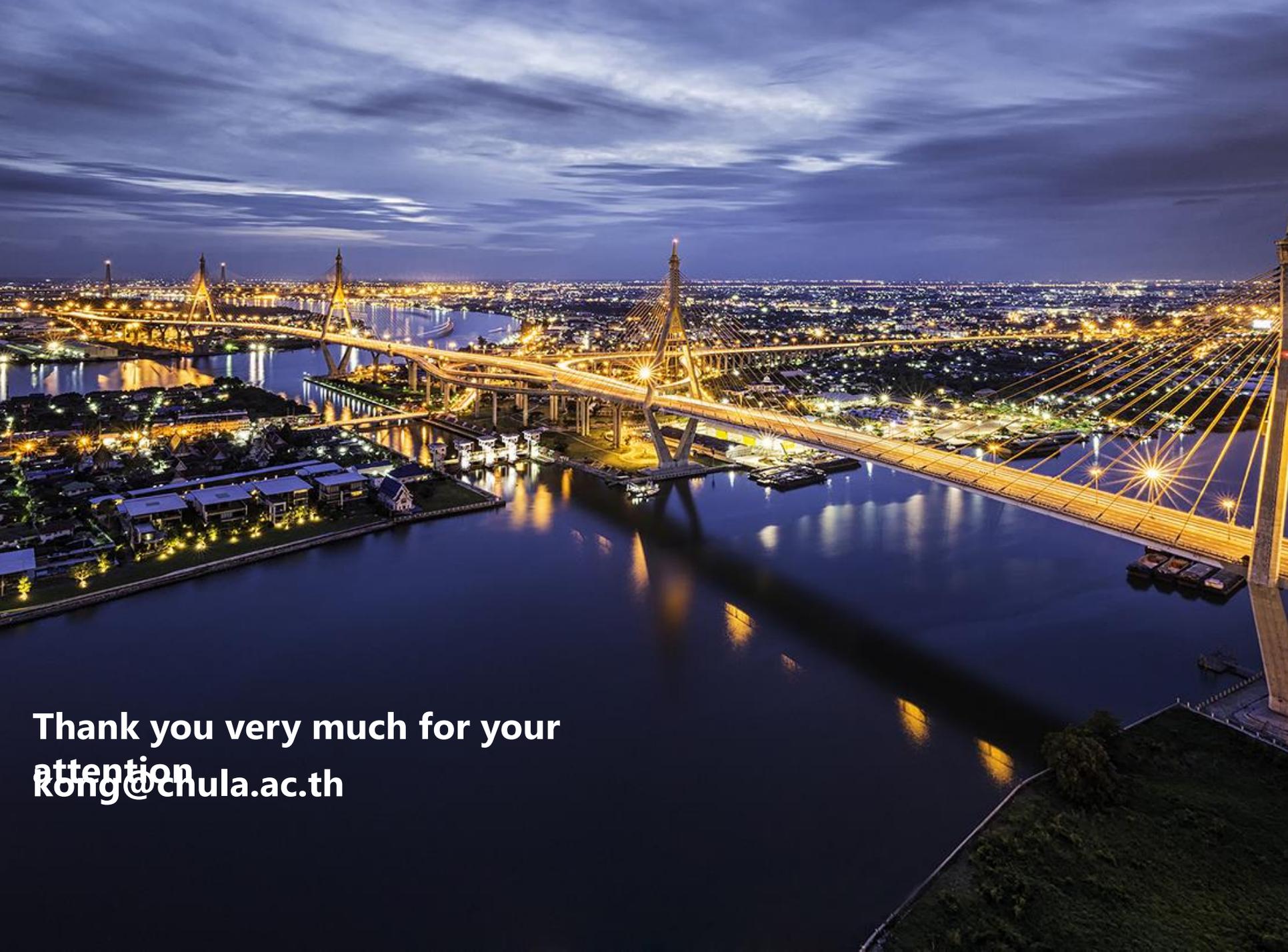
ศูนย์บูรณาการขนส่งต่อเนื่องหลายรูปแบบแห่งชาติ (National Multimodal Transport Integration Center : NMTIC)



1. ระบบจีพีเอส (GPS)
2. ระบบการสภาพจราจร (Traffic)
3. ระบบการรายงานอุบัติเหตุการกั้น (Incident)
4. ระบบรายงานสภาพอากาศ (Weather)
5. ระบบสถานที่และกล้องวงจรปิด (Place and CCTV)
6. ระบบตารางขนส่ง (Schedule)
7. ระบบปริมาณความต้องการของการใช้ยานพาหนะ (Demand)
8. ระบบร้องเรียน (Feedback and Complain)







**Thank you very much for your
attention**
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