



TOD FOR RAIL TRANSPORT In THAILAND



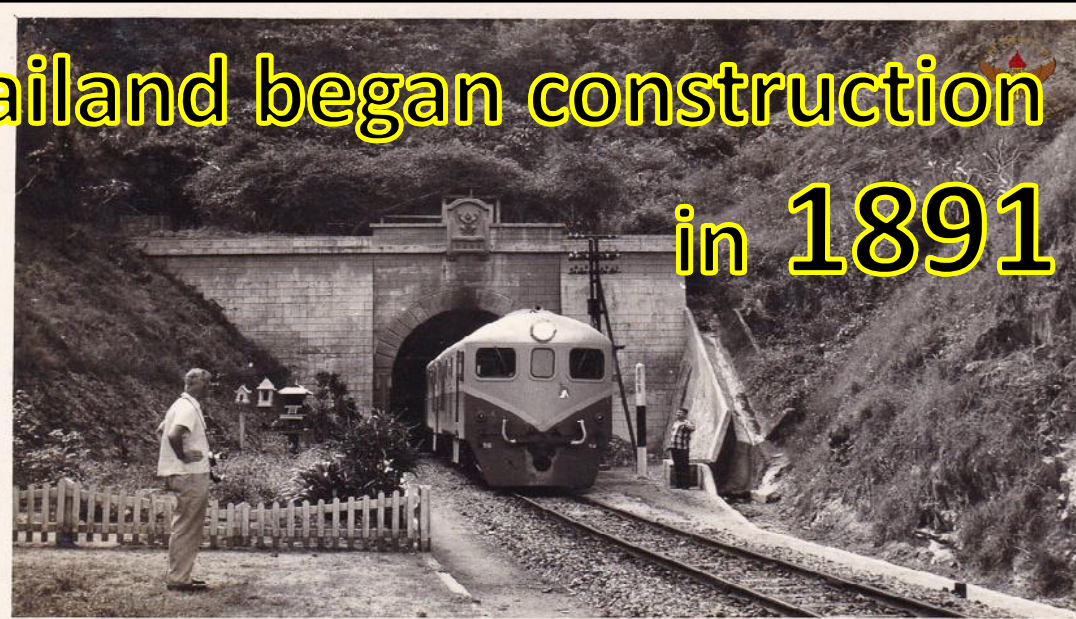
The Westin Grande Sukhumvit, Bangkok ,January 14, 2020

MR.SORAPONG PAITONPONG

**DIRECTOR GENERAL,
DEPARTMENT OF RAIL TRANSPORT**

The first railway line in Thailand began construction

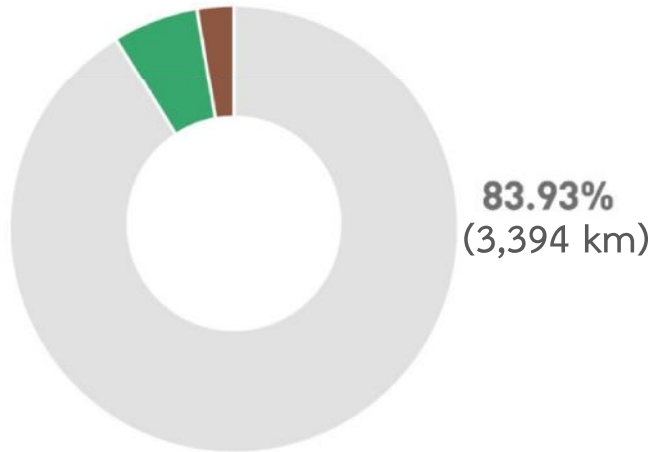
in 1891



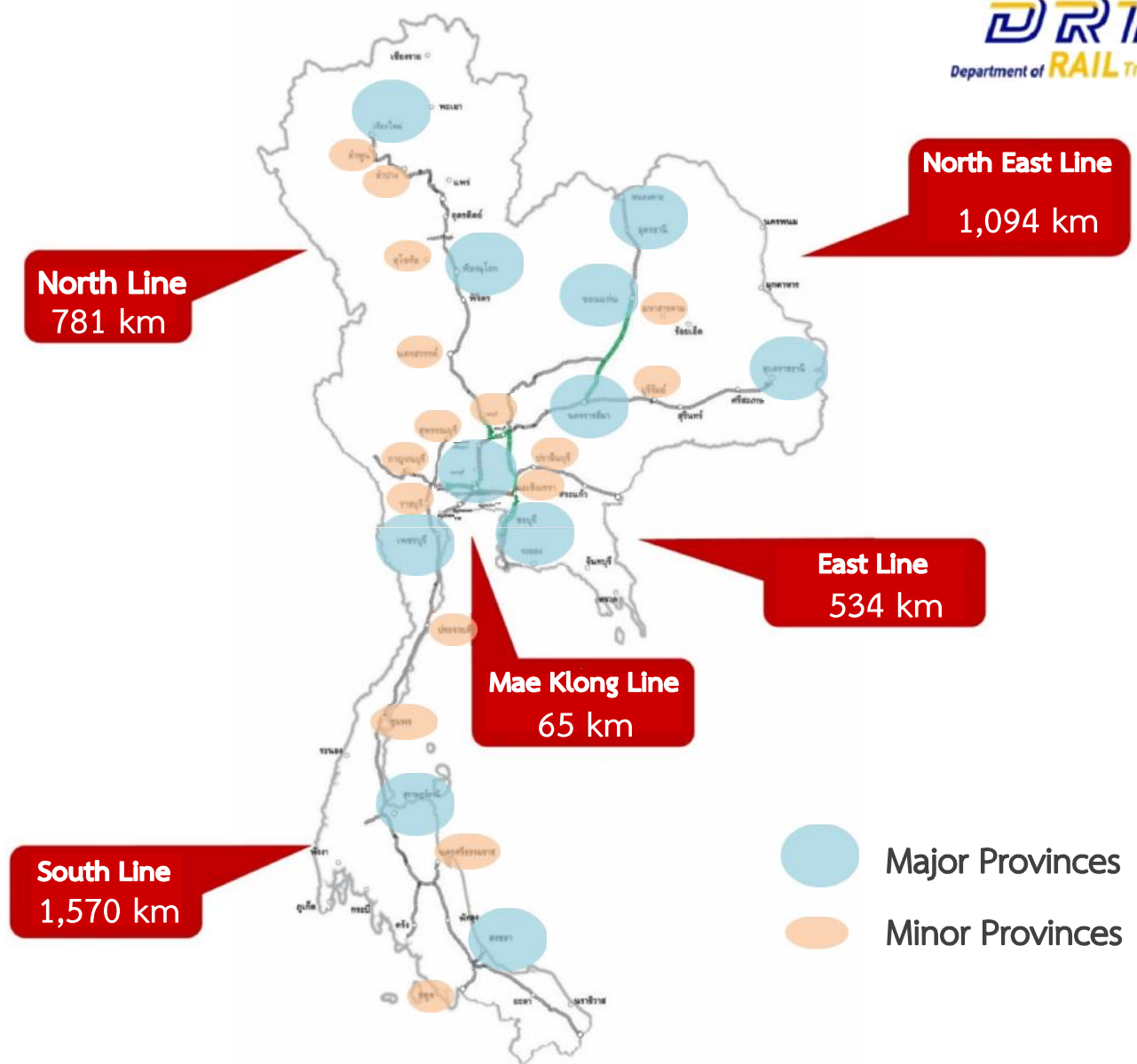
Existing Railway Network

- Total 4,044 km
- 47 Provinces

13.43% (543 km) 2.64% (107 km)



- Single Track
- Double Track
- Triple Track



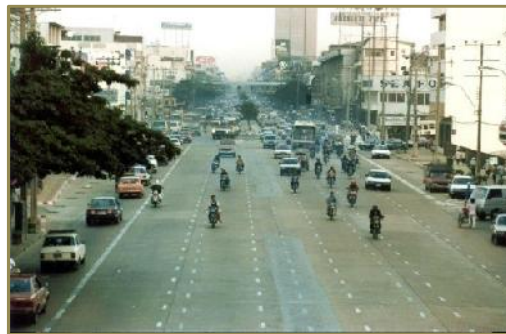
- Major Provinces
- Minor Provinces

1st National Economic and Social Development Plan : 1961 - 1966

แผนพัฒนาการเศรษฐกิจแห่งชาติ
ระหว่างระยะเวลา
พ.ศ. ๒๕๐๔ ถึง พ.ศ. ๒๕๐๖
และถึง พ.ศ. ๒๕๐๘

จัดทำโดย : สำนักงานสภาพัฒนาการเศรษฐกิจแห่งชาติ

Focus on Road Development



Unplanned Urban Growth



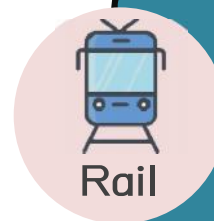
Existing Transport Network in Thailand

467,221 km

National Highway	66,794 km
Motorway & Expressway	354 km
Rural Road	47,916 km
Local Road	352,157 km



4,044 km



Single Track	3,394 km
Double Track/Triple Track	650 km

5,247 km

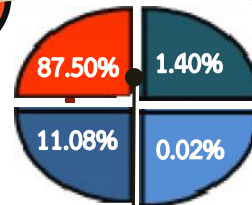
Coastal/Maritime	2,614 km
River	1,750 km
Canal	883 km



38 Airport



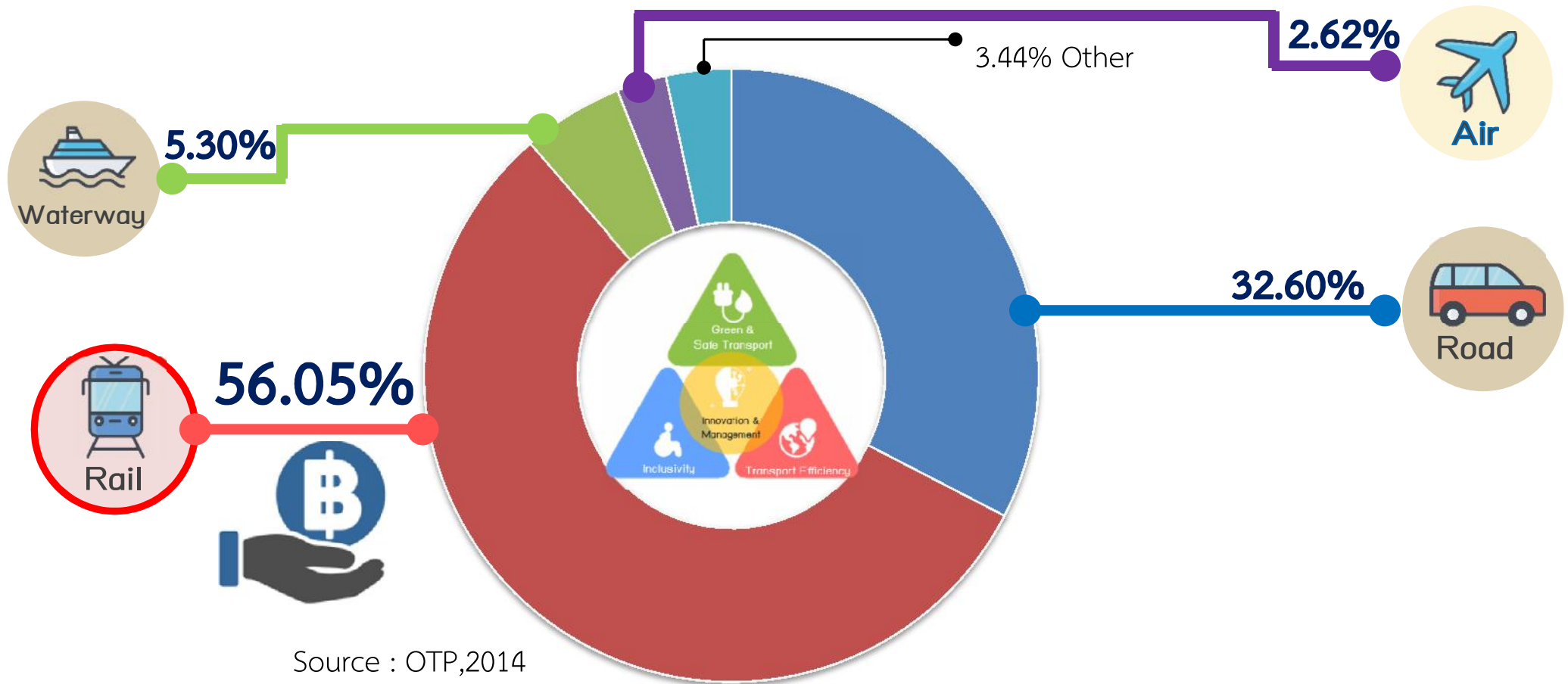
DOA Airports	28 Airports
AOT Airports	6 Airports
Bangkok Airways	3 Airports
Royal Thai Navy	1 Airport



Proportion of Logistics by Mode

Source : OTP,2013

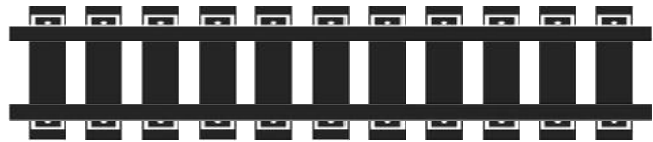
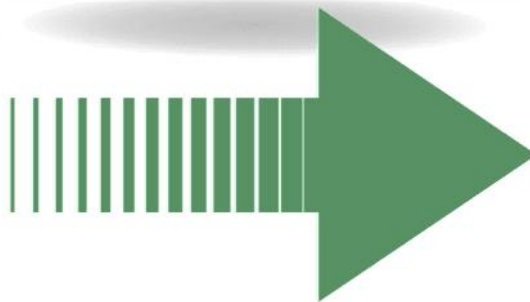
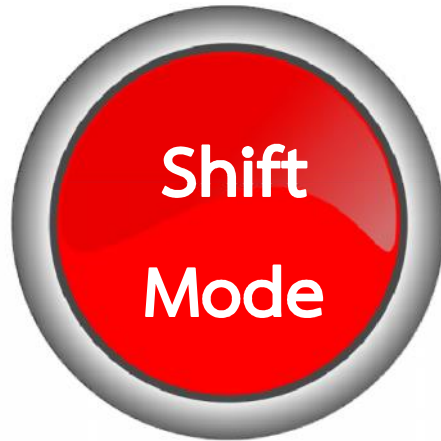
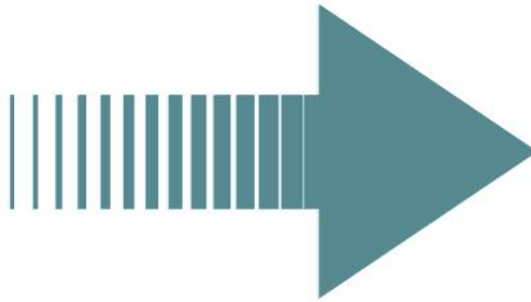
Thailand's Transport Infrastructure Development Strategies 2015 - 2022



Total Investment : 1.9 Trillion baht



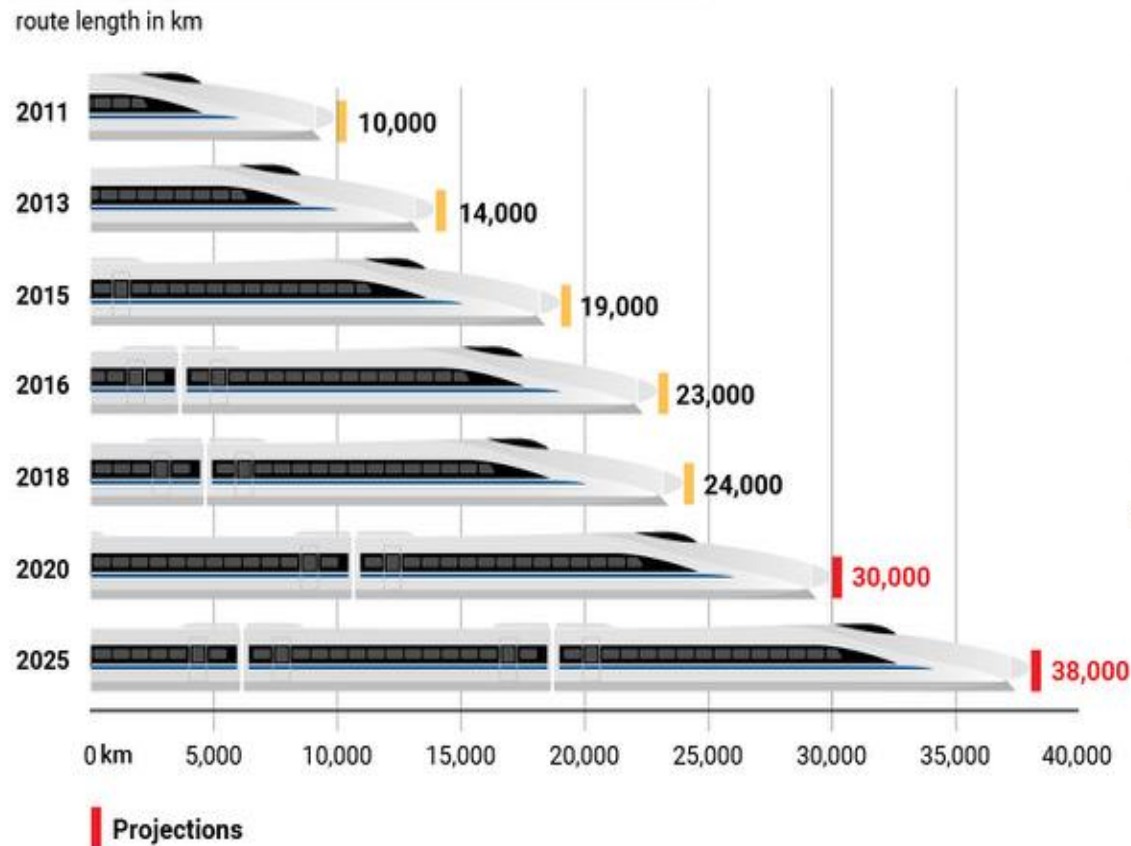
Road



Rail



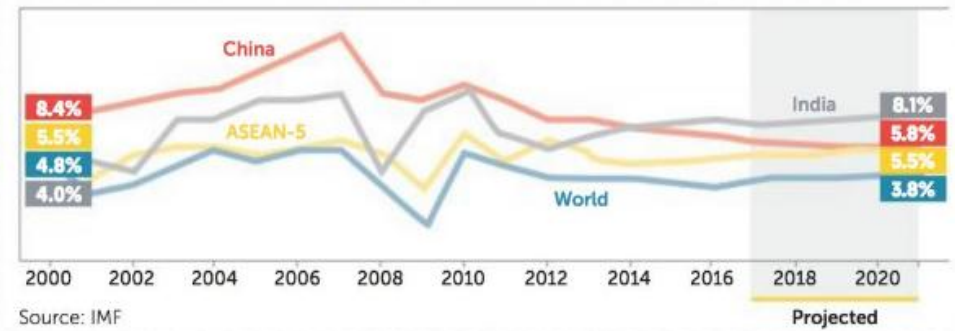
China's Growing High Speed Rail Network



Source: www.webuildvalue.com

Economic Growth in China

GDP GROWTH RATE (%)



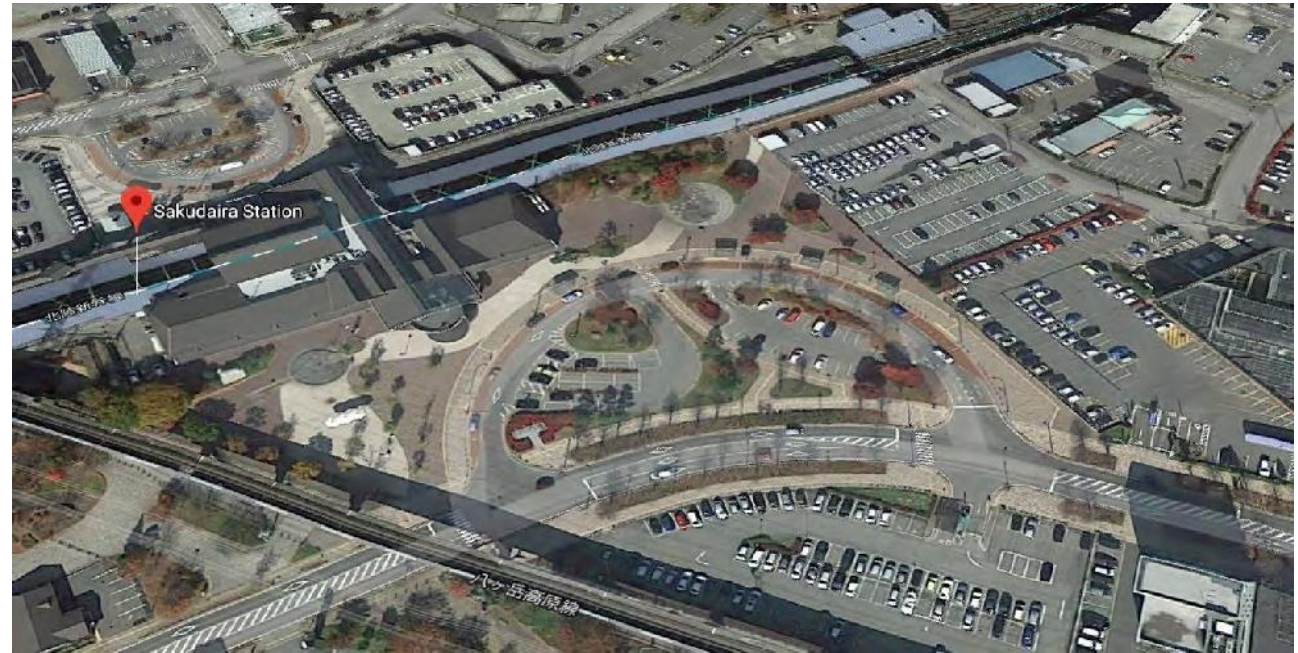
Source: <http://www.dukece.com/insights/opportunity-planet-asia/>



TOD Best Practices form Japan



Rail as Tool for Regional Development



MRT Network in BMR (Bangkok Metropolitan Region) : 2010-2029



14

Lines

559.16

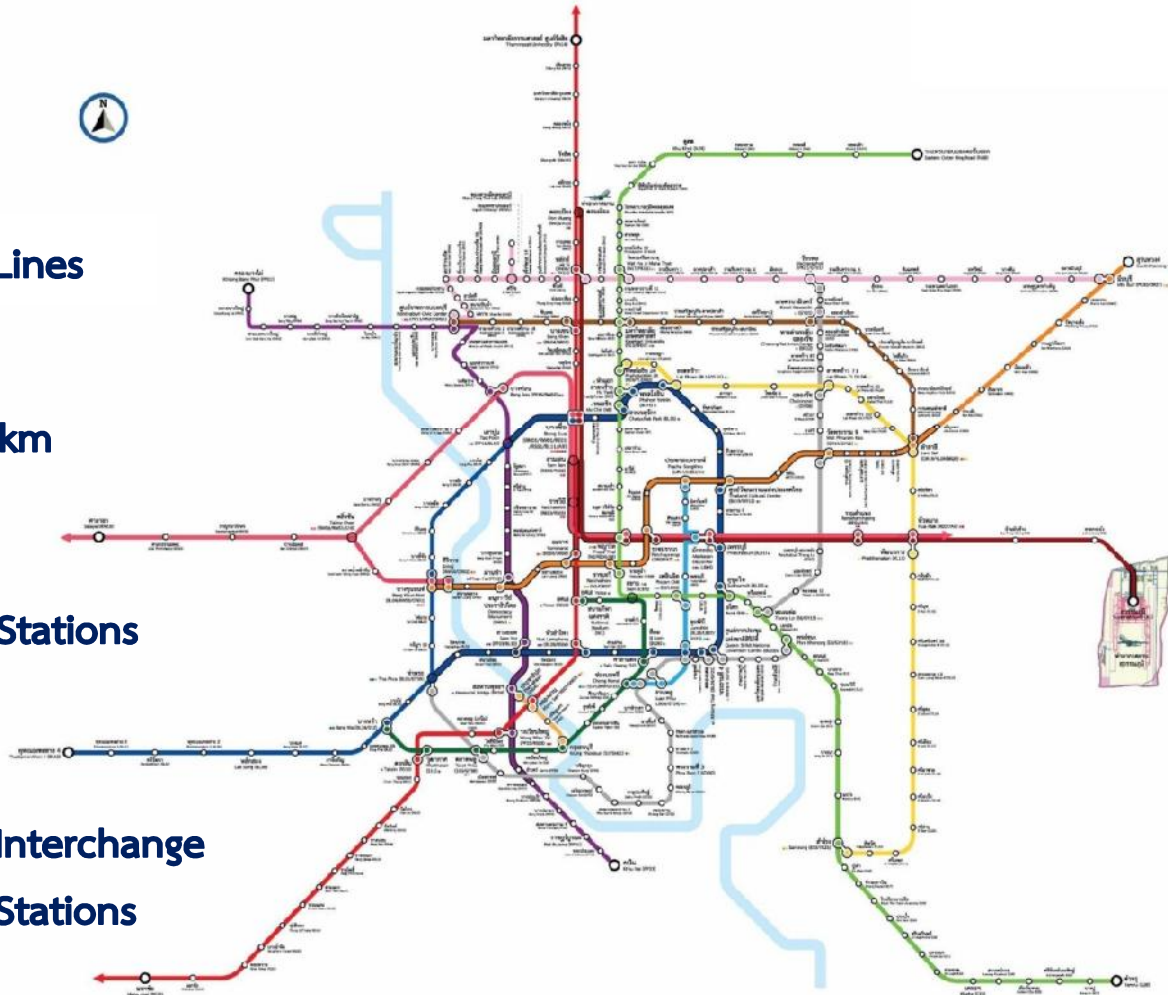
km

366

Stations

56

Interchange
Stations



Current Status of MRT in BMR

In-Operation **5 lines** : 153.8 km



Land Price along BTS Lines

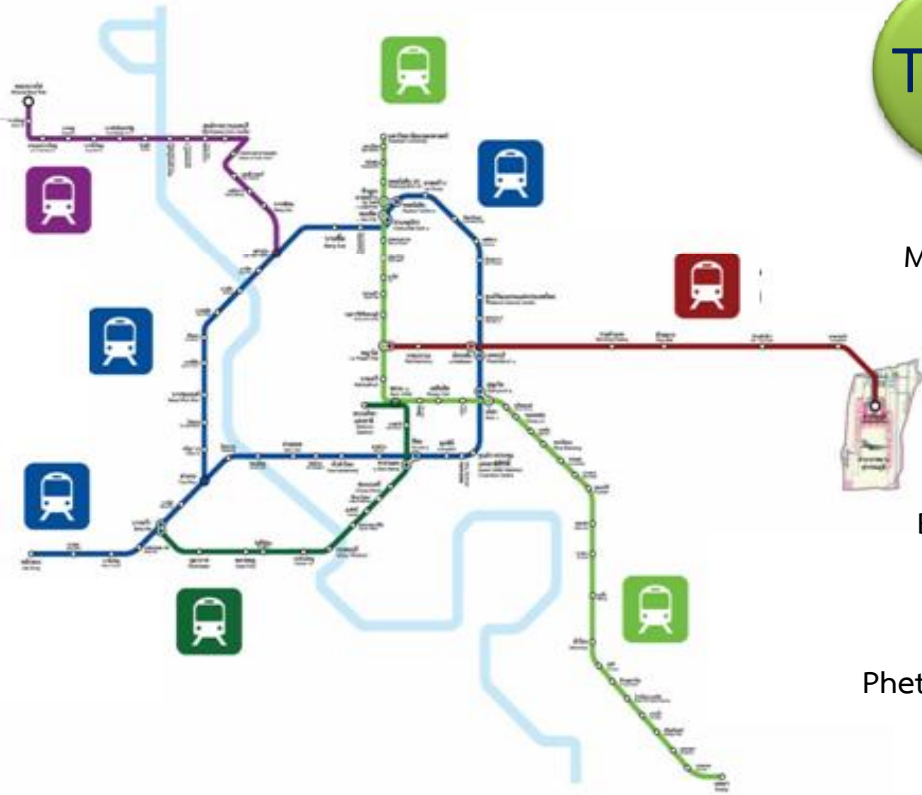
~10 Times

Year 2018

Year 1999



Source : Agency for Real Estate Affairs, 2018



TOP 14

Increasing of Land prices in Bangkok from 2017-2018

	% increase	Baht/Square Wah
Wireless Rd.	25%	2,000,000
MRT Sukumvit Station	25%	2,000,000
MRT Ratchapisek Station	25%	750,000
Rama IV Rd.	25%	500,000
MRT Phaholyothin Station	25%	500,000
Lat Phrao Intersection	25%	500,000
BTS Udomsuk Station	32%	450,000
Panaphan	29%	450,000
MRT Lat Phrao Station	29%	450,000
BTS Punnawithi Station	25%	450,000
BTS Bangna Station	25%	400,000
BTS Barring Station	25%	350,000
Srinakarin-Bangna Rd.	25%	200,000
Phetkasem-Phasrijareon Rd.	25%	200,000



Source: Bangkok Post, 2018

Urban Area

Project Concept for Bang Sue Area Development



2021

Inauguration of Thailand's new transport hub with multimodal linkage



264,862 square meters of functional area



An interchange with the Blue Line



Park & Ride Building accommodating 1,700 cars



24 platforms

4 commuter train platforms
8 long-distance train platforms
10 high-speed train platforms
2 Airport Rail Link platforms

Project Concept

Zone B Concept :

ASEAN Commercial and Business HUB

- ASEAN Mall
- Office Building
- Hotel
- Parking
- Condo / Serviced Apartment
- Exhibition / Convention Hall

Zone A Concept:

Smart Business Complex

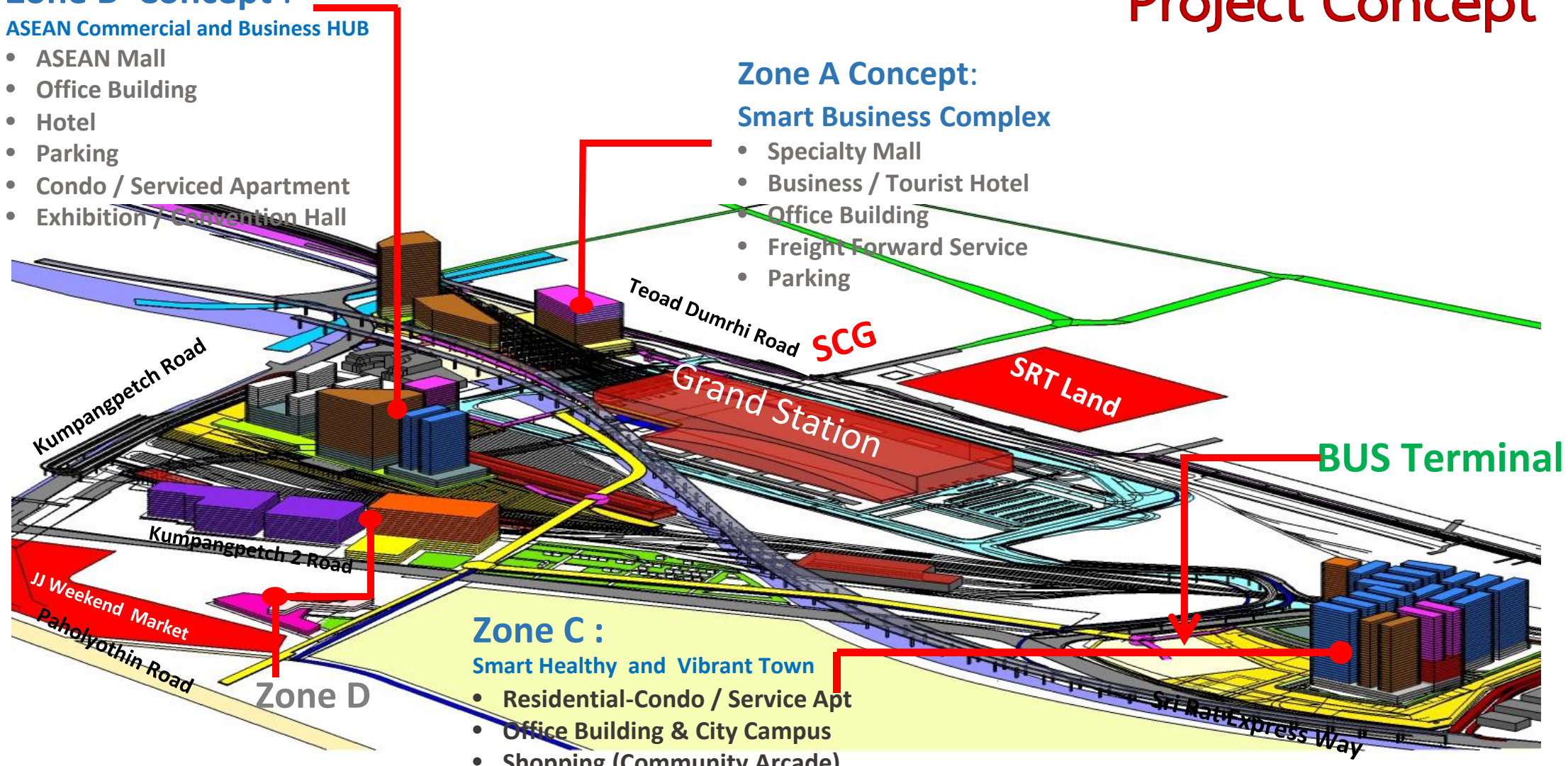
- Specialty Mall
- Business / Tourist Hotel
- Office Building
- Freight Forward Service
- Parking

Zone C :

Smart Healthy and Vibrant Town

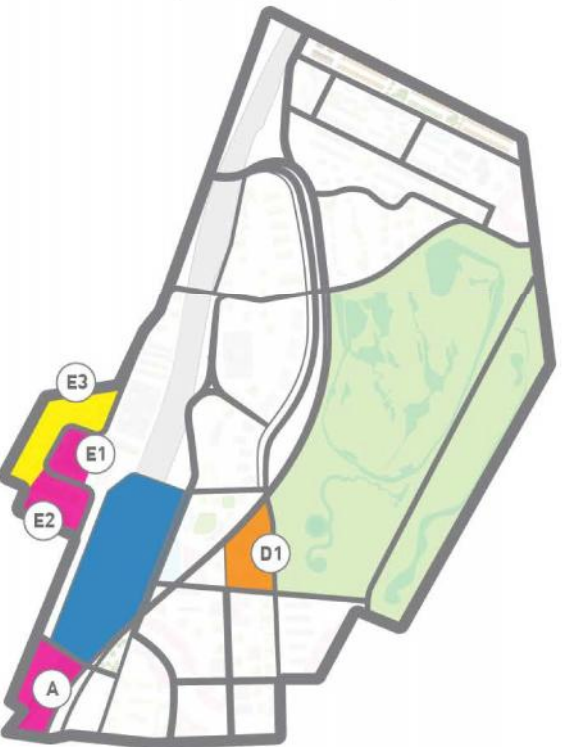
- Residential-Condo / Service Apt
- Office Building & City Campus
- Shopping (Community Arcade)
- Sport Complex / Assembly Hall
- Hotel & Parking

Zone D

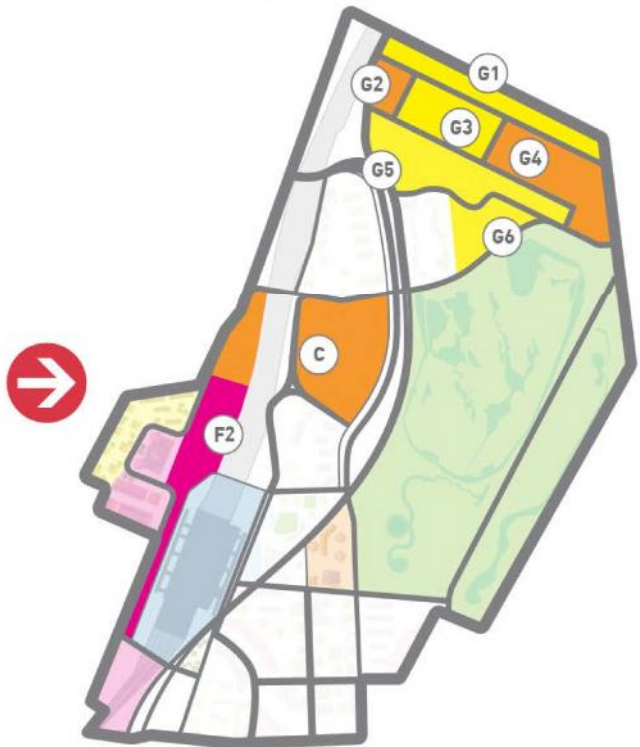


PHASED DEVELOPMENT OF PAHONYOTHIN TRANSPORT CENTER

Short Term 2022
(Phase 1)



Middle Term 2027
(Phase 2)

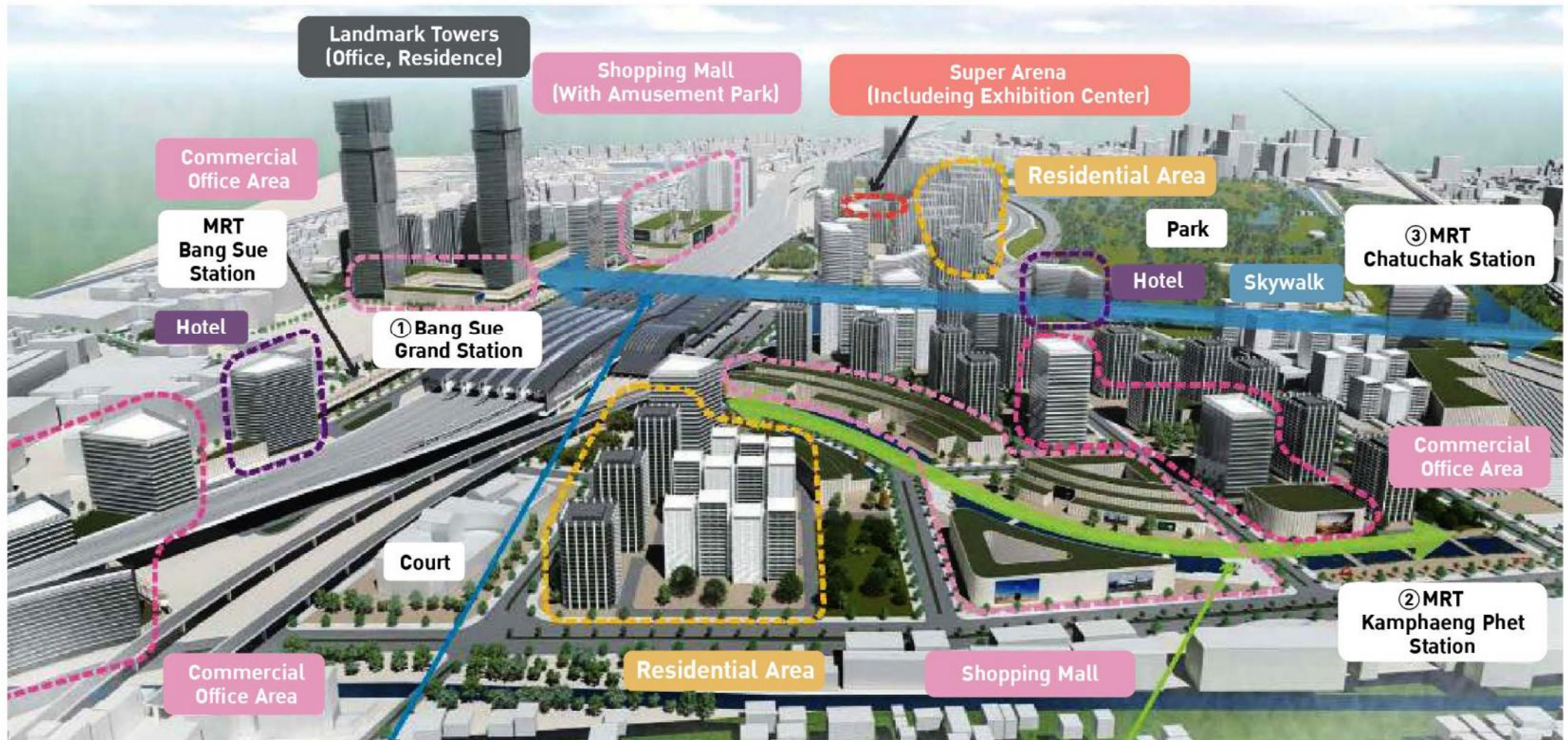


Long Term 2032
(Phase 3)



Commercial Mixed Use Residential

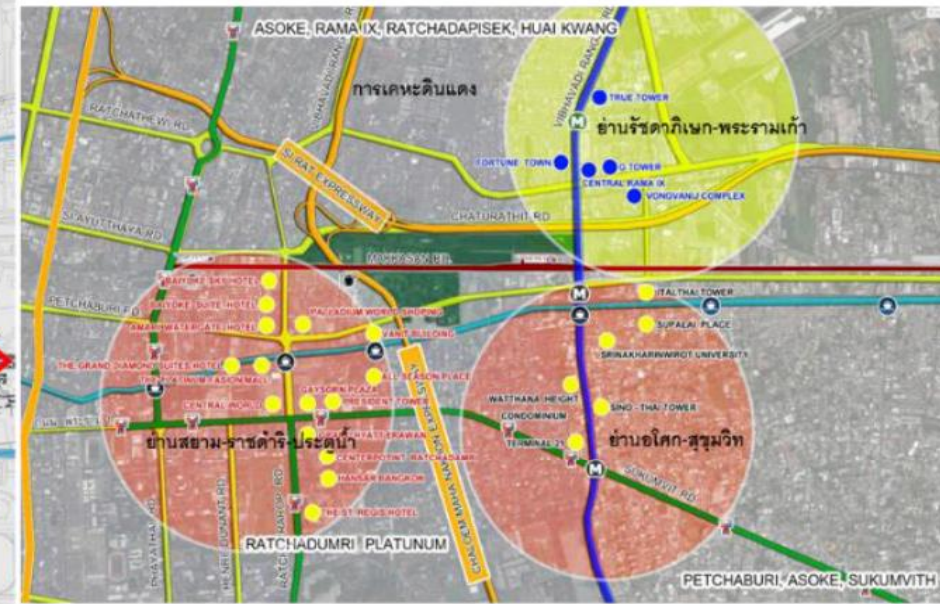
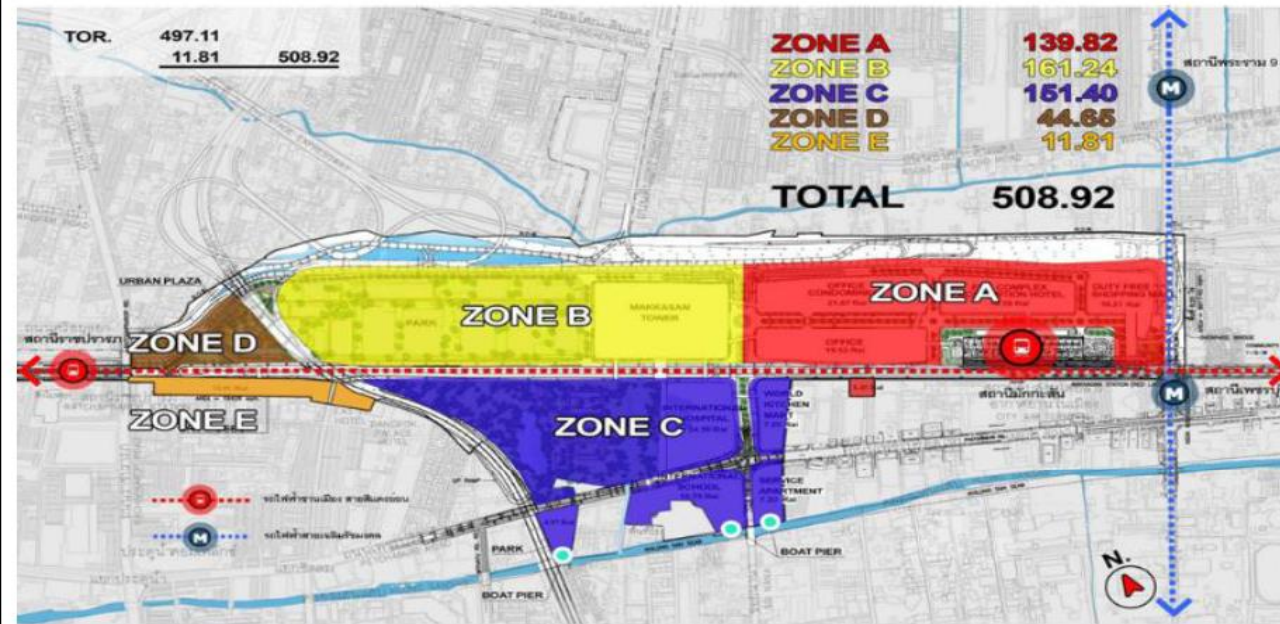
PAHONYOTHIN TRANSPORT CENTER: A New Urban Core



Skywalk connects Office Towers and stations (①③)

Two stations (①②) are connected each other through Shopping Mall and water path²⁵

Project Concept for Makkasan Area Development



Area A: 139.82 Rais
ARL Makkasan: 27.48 Rais
FAR: 8:1

Property development of Makkasan area

Property development of Makkasan area is expected to be used in various ways e.g. mixed-use, commercial purpose and public service

Makkasan property development area is located at the heart of Bangkok which is surrounded by

- Siam- Ratchadumri- Pratunam area
- Ratchadapisek - Rama IX area
- Asoke - Sukhumvit area



Mixed-used building



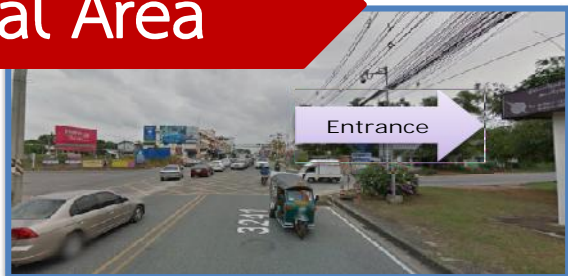
Convention hall



EEC Head Quarters

Project Concept for Sriracha Area Development

Regional Area



- - - Rail Way
- Sukhumvit Road No.3
- Motor Way No.7
- ⋯ เส้นทางเข้า-ออก สถานี
- A J-Park
- B Assumption College Sriracha
- C Robinson
- D Koh Loy
- Sriracha Station

Limitation for **TOD** in Thailand

1978 →

Law

Land Acquisition Act



Government can not investment

Investment by Private Sector



Lesson Learnt from Japan for **Bangkok-Chiang Mai HSR**



HSR Station Proposed for TOD



Phitsanulok

Nakhonsawan

Promote Tourism
Sukhothai



Investment Cost Phase 1 : Bangkok-Phitsanulok 276,226 mil.Baht



TOD



DRT
Department of **RAIL** Transport



Thank you