



# 2023 OVERVIEW

## Agenda

01

### Actual and forecast

Actual and forecast of passengers & aircrafts

02

### Slot comparison

Comparison of slot request and actual in summer 2023

03

### Load factor performance

summer 2023 and winter 2023-2024 (at dec23)

04

### Nationalities of passengers

the top 10 nationalities of passengers in 2019 vs 2023

05

### The recovery of Chinese passengers and flights

2019 vs 2023

06

### Traveler pattern

Portion of Free Independent Traveler (FIT) Group Inclusive Tour (GIT)

12 Months(October 2022 - September 2023)

AOT



**639,892**  
(+62.2%)

**Int**  
321,053 (+133.5%)  
**Dom**  
318,839 (+24.1%)



**100.06M**  
(+114.3%)

**Int**  
53.91M (+287.9%)  
**Dom**  
46.15M (+40.8%)



**1.15M**  
(-6.0%)

**Int**  
1.12M (-6.2%)  
**Dom**  
28,183 (+4.3%)

BKK



**294,085** (+56.2%) **48.37M** (+137.8%) **1.11M** (-7.9%)

**Int**  
204,632 (+89.6%) **Int**  
36.58M (+245.5%) **Int**  
1.10M (-8.0%)  
**Dom**  
89,453 (+11.3%) **Dom**  
11.79M (+20.9%) **Dom**  
11,691 (+5.3%)

CNX



**52,682** (+58.8%) **7.80M** (+79.2%) **5,290** (+7.8%)

**Int**  
11,145 (+1247.6%) **Int**  
1.49M (+1661.7%) **Int**  
369 (+3590.0%)  
**Dom**  
41,537 (+28.4%) **Dom**  
6.31M (+47.9%) **Dom**  
4,921 (+0.5%)

HKT



**82,283** (+72.8%) **13.01M** (+122.8%) **21,966** (+242.1%)

**Int**  
39,107 (+139.1%) **Int**  
6.90M (+244.9%) **Int**  
17,441 (+440.3%)  
**Dom**  
43,176 (+38.1%) **Dom**  
6.11M (+59.3%) **Dom**  
4,525 (+41.8%)

DMK



**177,195** (+84.7%) **25.74M** (+112.1%) **11,014** (+135.4%)

**Int**  
64,521 (+442.1%) **Int**  
8.71M (+643.8%) **Int**  
8,166 (+435.1%)  
**Dom**  
112,674 (+34.1%) **Dom**  
17.03M (+55.3%) **Dom**  
2,848 (-9.6%)

HDY



**20,956** (+11.8%) **3.20M** (+25.1%) **3,302** (-13.3%)

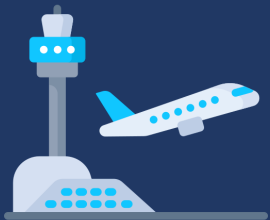
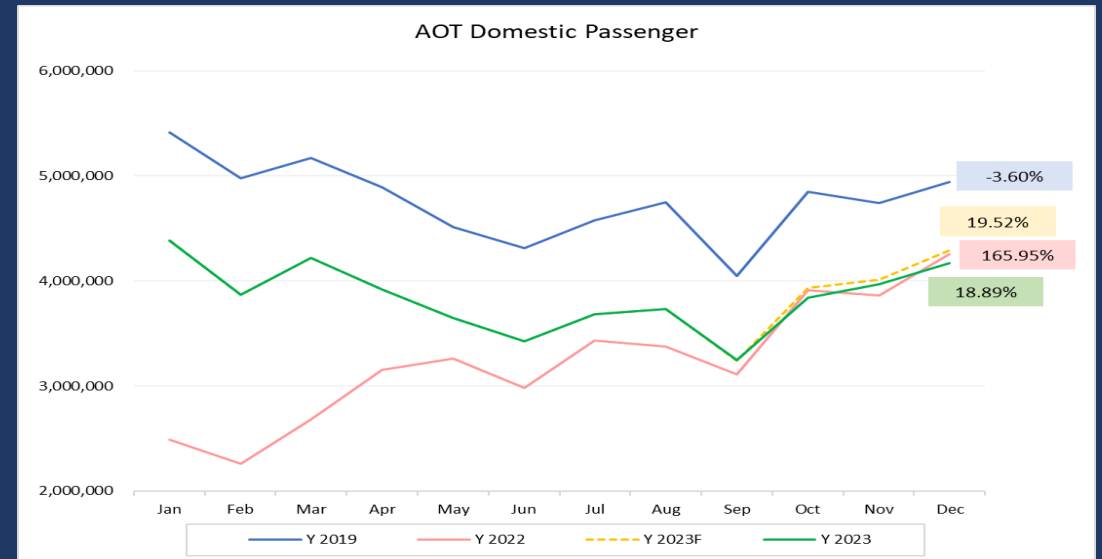
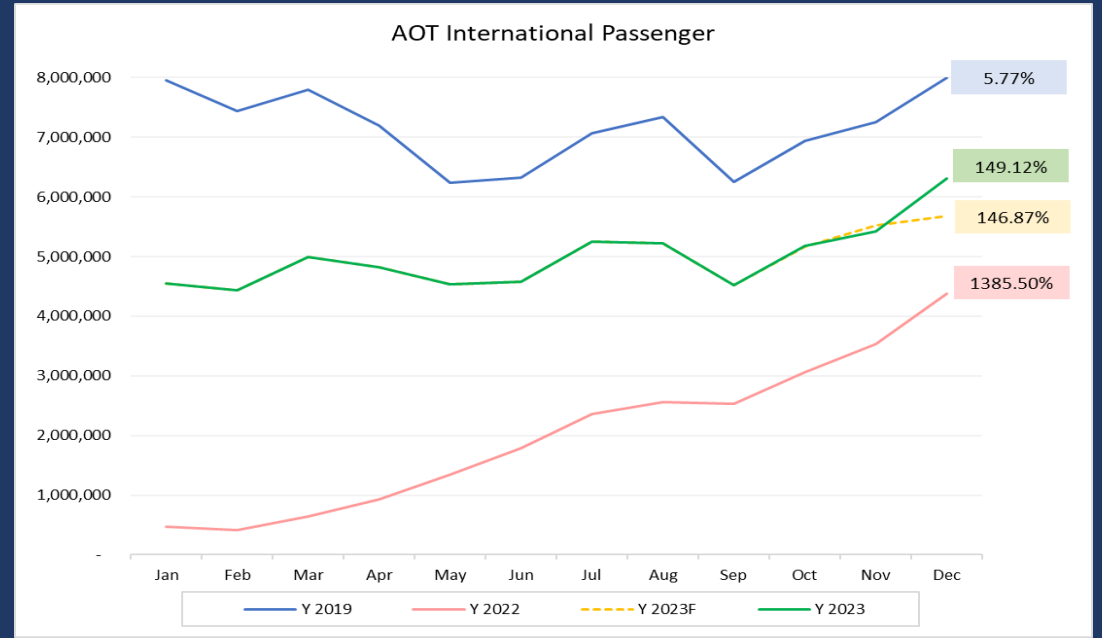
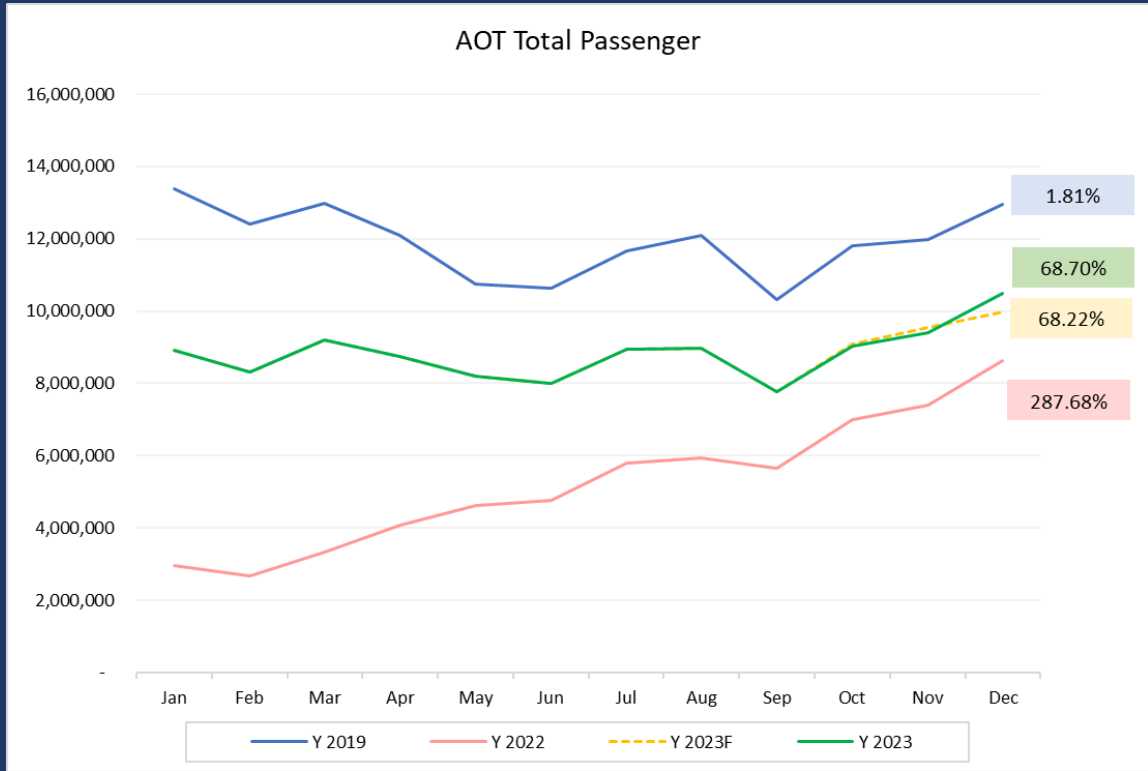
**Int**  
1,588 (+228.8%) **Int**  
234,848 (+310.8%) **Int**  
-  
**Dom**  
19,368 (+6.0%) **Dom**  
2.96M (+18.5%) **Dom**  
3,302 (-13.3%)

CEI



**12,691** (+18.6%) **1.94M** (+32.5%) **896** (+2.1%)

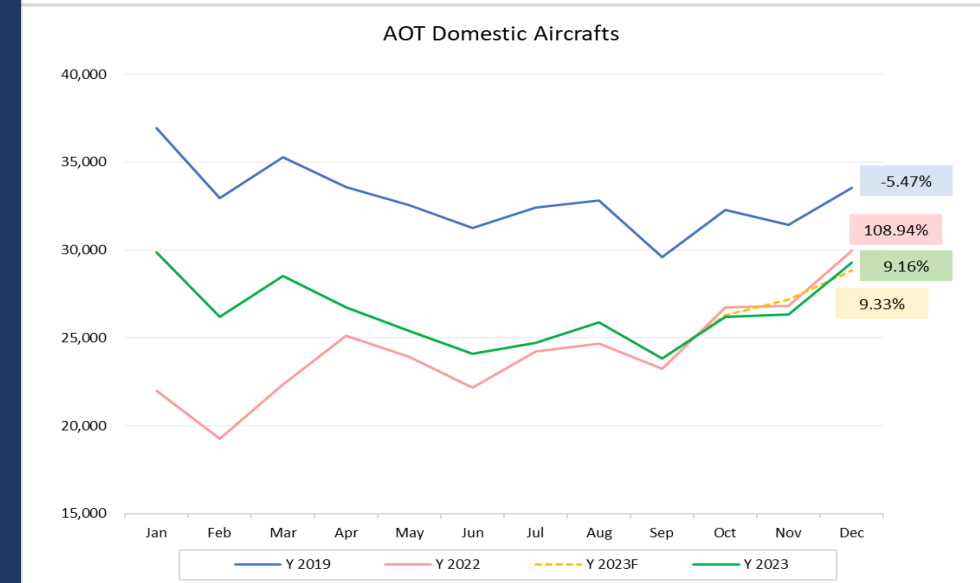
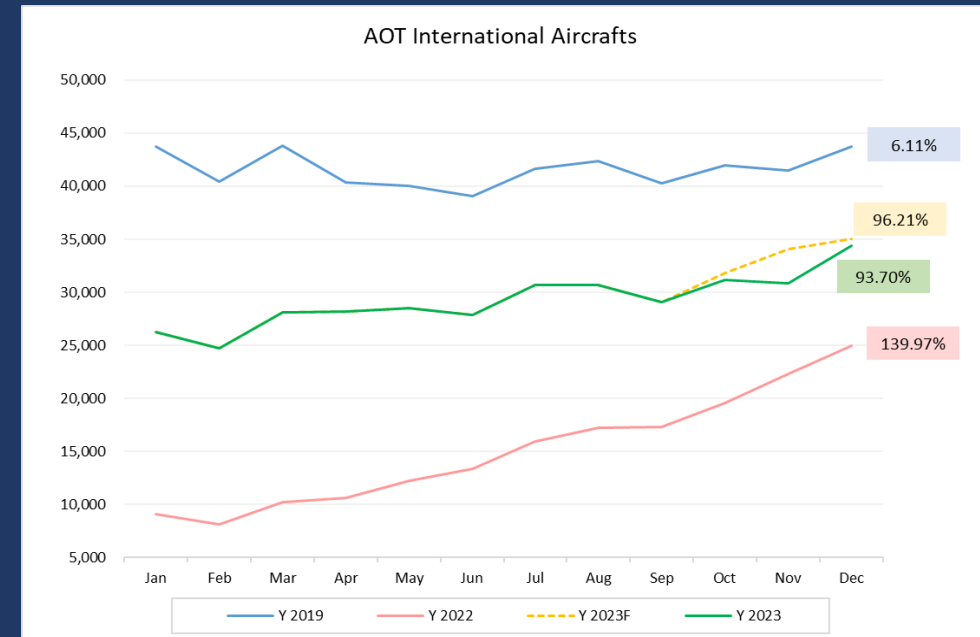
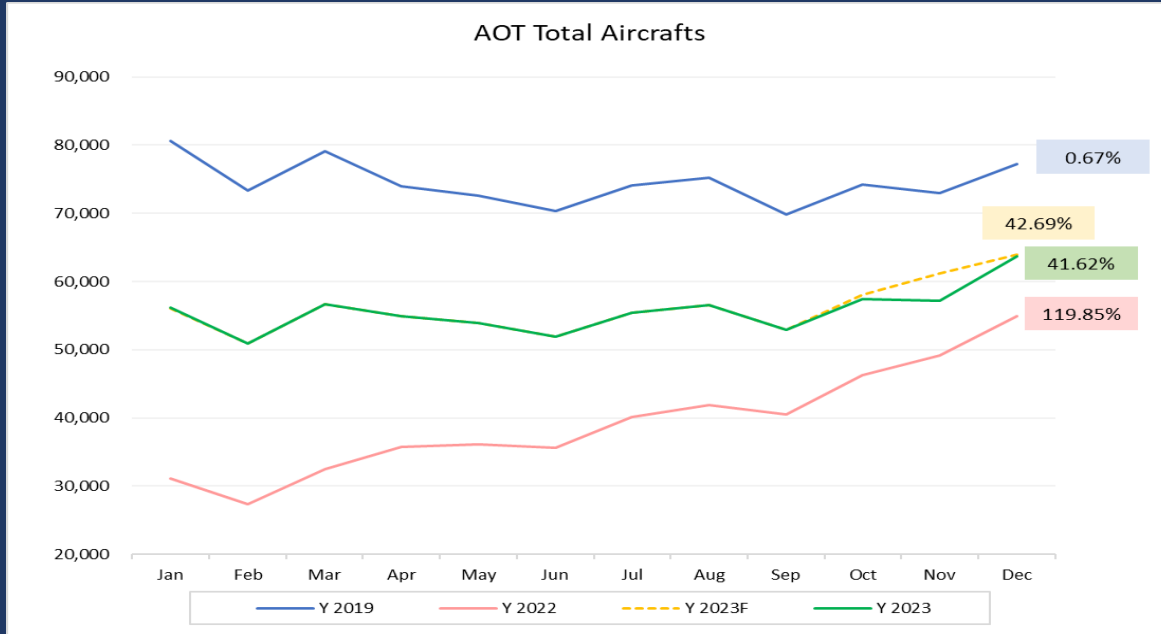
**Int**  
60 (+757.1%) **Int**  
406 (+745.8%) **Int**  
-  
**Dom**  
12,631 (+18.1%) **Dom**  
1.94M (+32.5%) **Dom**  
896 (+2.1%)





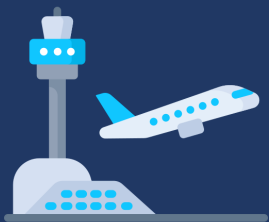
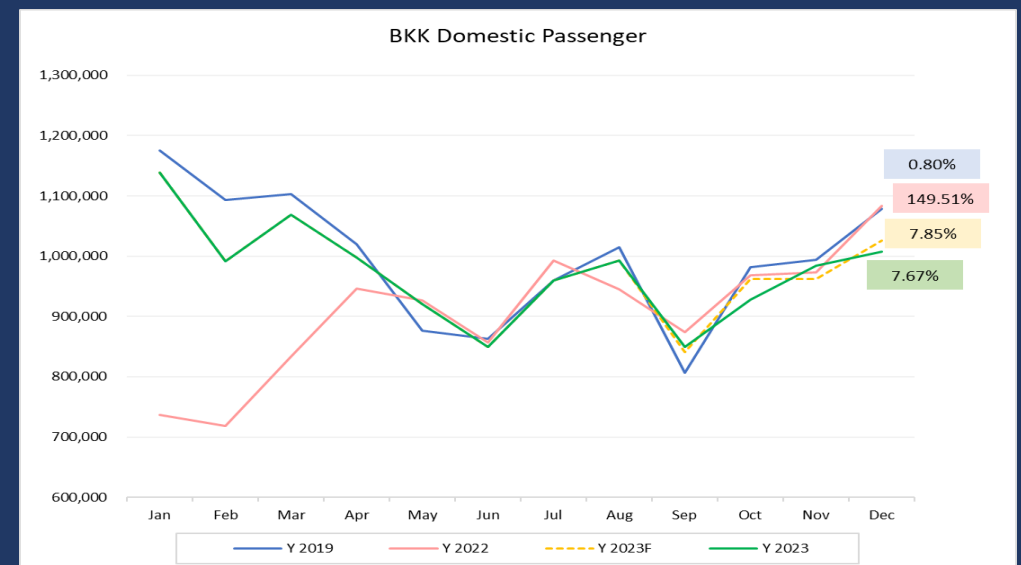
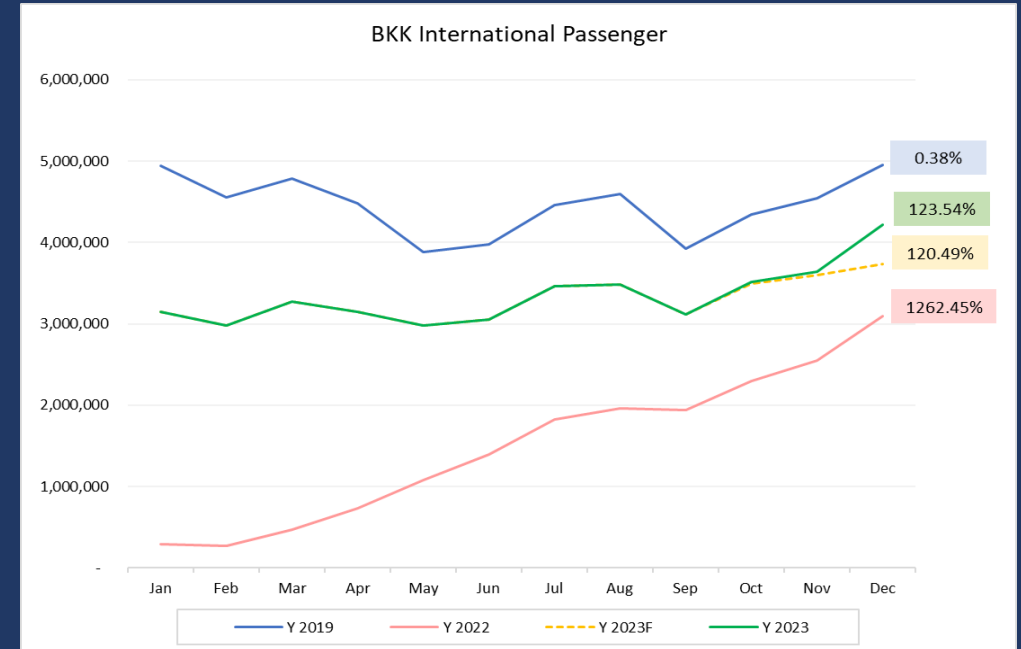
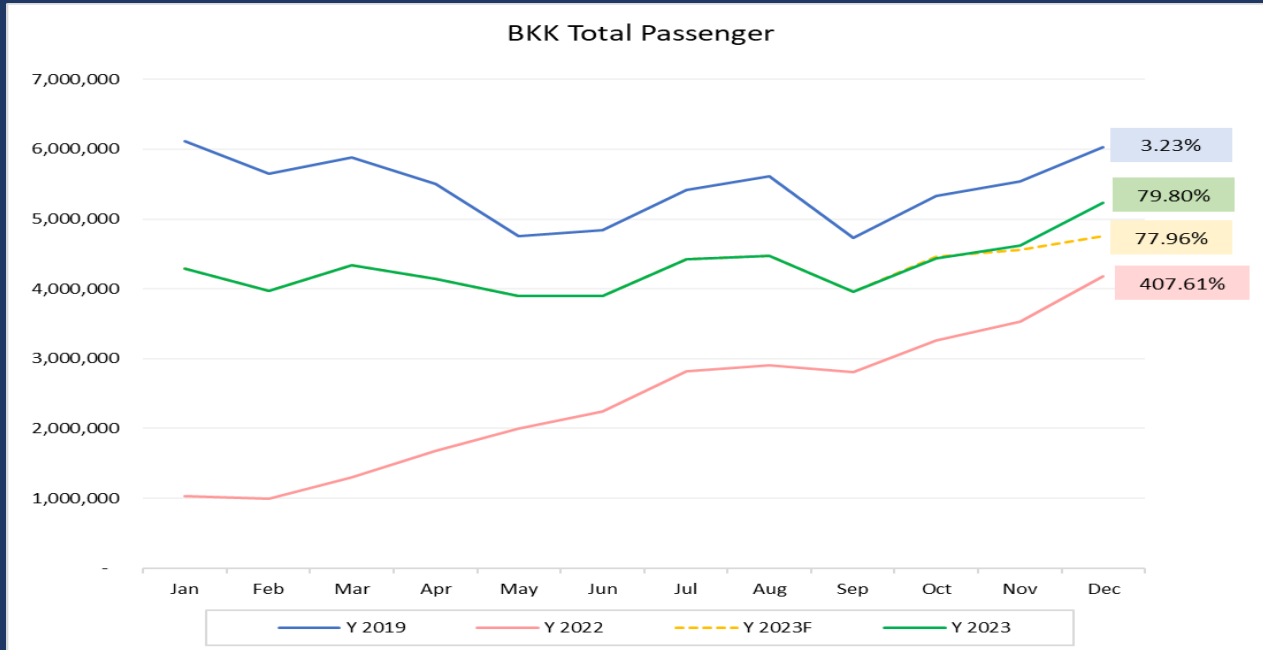
# 01

## Actual and forecast : Aircrafts of AOT



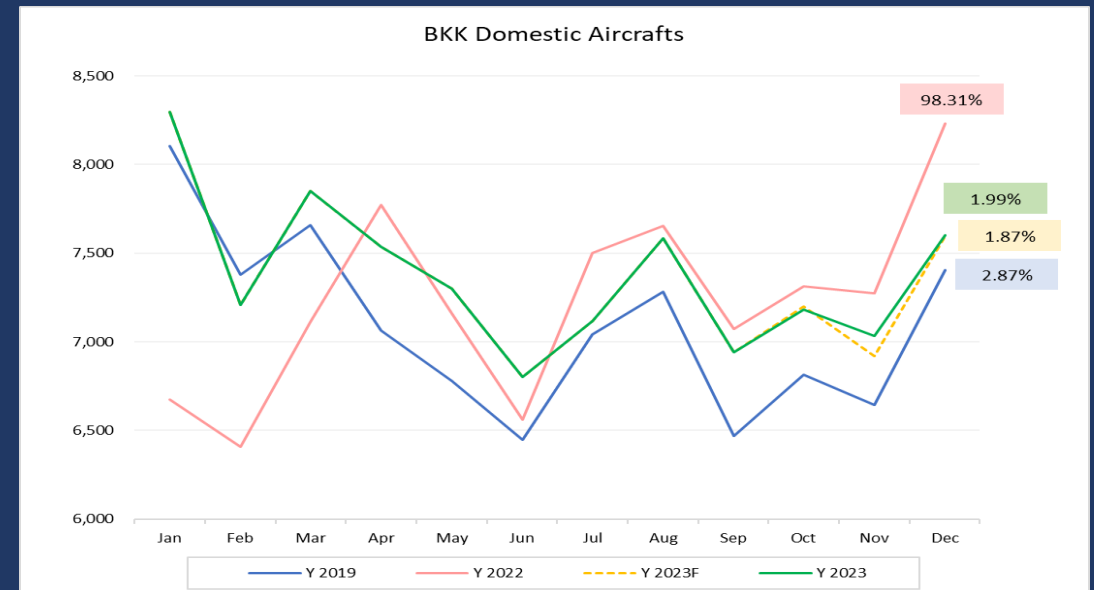
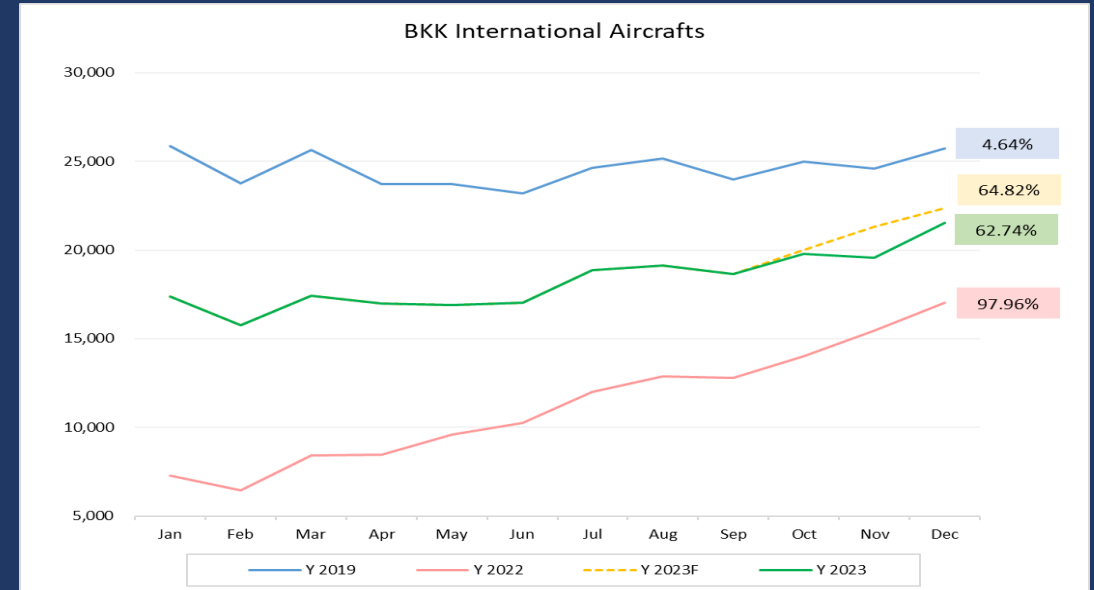
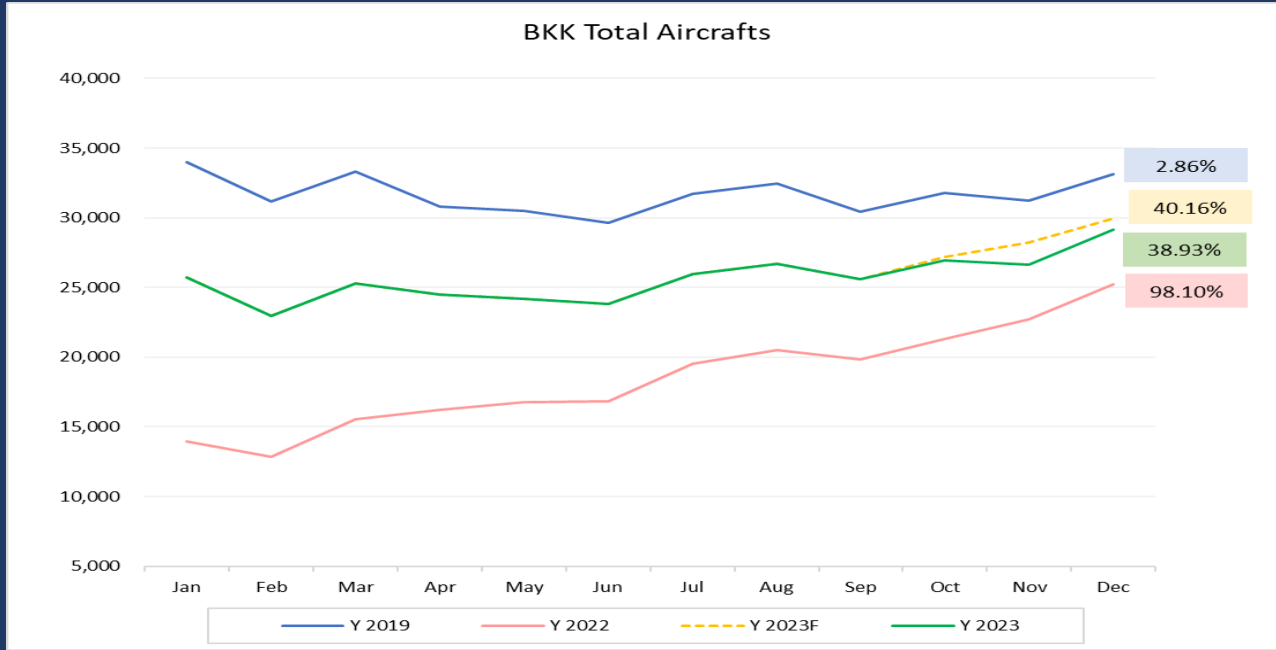
# 01

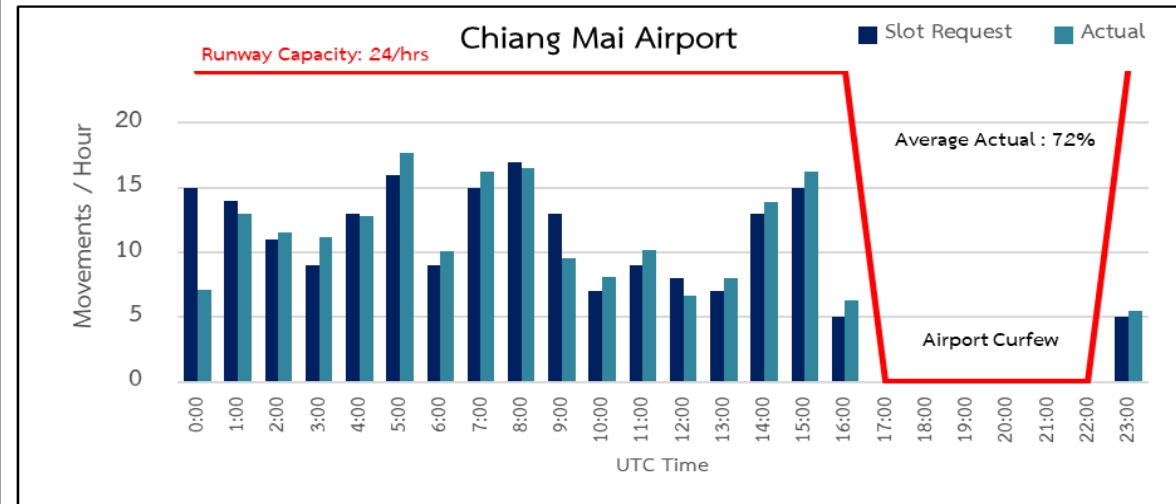
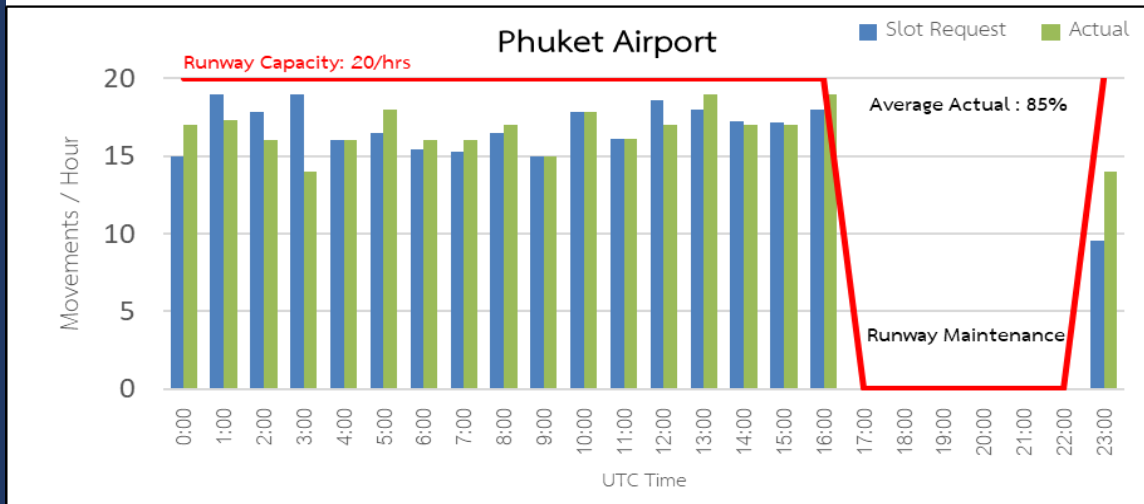
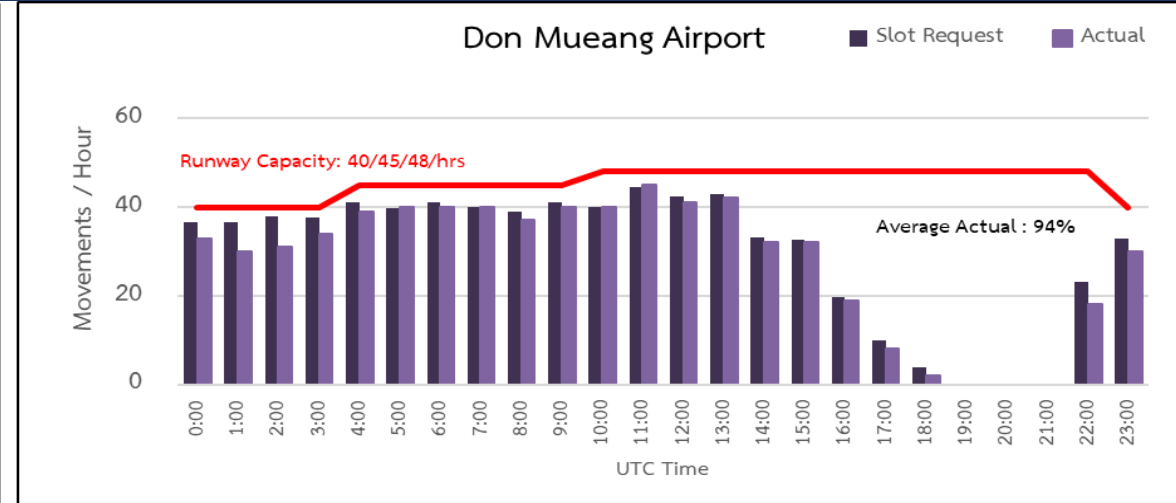
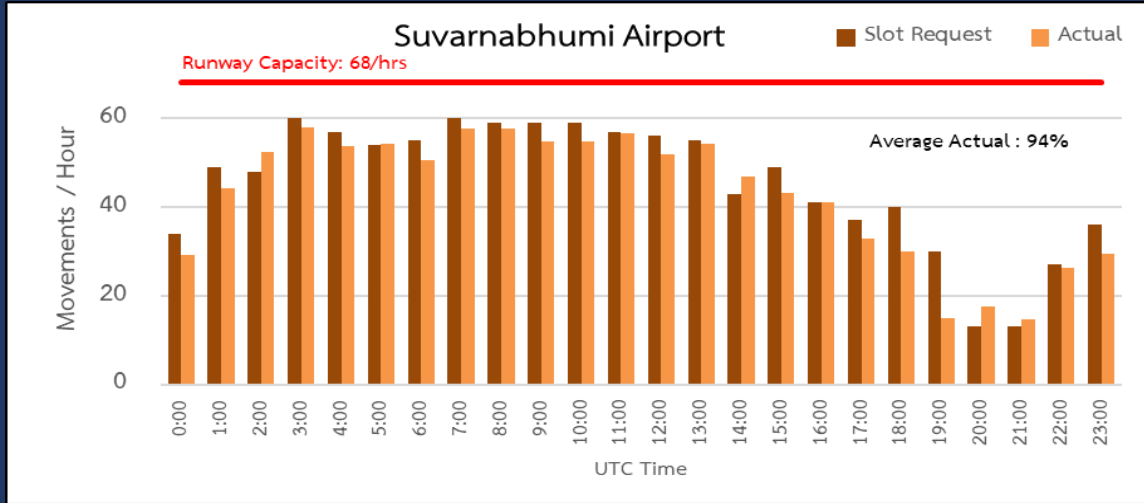
## Actual and forecast : Passengers of BKK



# 01

## Actual and forecast : Aircrafts of BKK





## 03

## Load factor performance



AFRICA	SUMMER 2023		WINTER 2023/24	
	BKK	HKT	BKK	HKT
AIR AUSTRAL	-	-	91.1%	-
ETHIOPIAN AIRLINES	94.6%	-	54.4%	-
KENYA AIRWAYS	53.0%	-	31.7%	-
<b>TOTAL</b>	<b>61.9%</b>	<b>-</b>	<b>56.2%</b>	<b>-</b>

AMERICA	SUMMER 2023		WINTER 2023/24	
	BKK	HKT	BKK	HKT
AIR CANADA	-	-	97.7%	-
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>97.7%</b>	<b>-</b>

OCEANIA	SUMMER 2023		WINTER 2023/24	
	BKK	HKT	BKK	HKT
JETSTAR AIRWAYS	90.8%	95.0%	93.9%	93.1%
QANTAS AIRWAYS	90.7%	-	91.9%	-
THAI AIRASIA X	48.3%	-	58.8%	-
THAI AIRWAYS	84.6%	-	87.9%	-
<b>TOTAL</b>	<b>81.3%</b>	<b>95.0%</b>	<b>85.7%</b>	<b>93.1%</b>

MIDDLE EAST	SUMMER 2023		WINTER 2023/24	
	BKK	HKT	BKK	HKT
EMIRATES	74.2%	87.4%	78.0%	90.8%
ETIHAD AIRWAYS	87.7%	84.5%	88.1%	91.3%
QATAR AIRWAYS COMPANY	86.1%	80.0%	86.4%	79.3%
<b>TOTAL</b>	<b>79.7%</b>	<b>81.6%</b>	<b>81.4%</b>	<b>81.7%</b>

EUROPE	SUMMER 2023		WINTER 2023/24	
	BKK	HKT	BKK	HKT
AEROFLOT RUSSIAN AIRLINES	83.2%	85.5%	78.4%	78.2%
FINNAIR O/Y	75.1%	-	75.3%	80.2%
THAI AIRWAYS	84.4%	-	81.9%	-
TURKISH AIRLINES	89.2%	88.5%	88.5%	92.7%
<b>TOTAL</b>	<b>85.2%</b>	<b>85.8%</b>	<b>83.6%</b>	<b>80.8%</b>







ASIA PACIFIC	SUMMER 2023				WINTER 2023/24			
	BKK	DMK	CNX	HKT	BKK	DMK	CNX	HKT
THAI AIR ASIA	80.2%	80.4%	67.4%	82.1%	81.5%	82.1%	85.0%	71.6%
THAI AIRWAYS	71.9%	-	-	-	78.8%	-	-	-
THAI VIET JET AIR	71.2%	-	62.2%	67.4%	80.3%	-	81.5%	89.0%
VIETJET AIR	78.8%	-	59.9%	-	80.1%	-	84.8%	82.2%
VIETNAM AIRLINES	80.1%	-	-	-	84.5%	-	-	-
<b>TOTAL</b>	<b>74.7%</b>	<b>78.6%</b>	<b>69.4%</b>	<b>72.1%</b>	<b>82.1%</b>	<b>81.8%</b>	<b>82.1%</b>	<b>73.5%</b>

CONTINENTS	SUMMER 2023				WINTER 2023/24			
	BKK	DMK	CNX	HKT	BKK	DMK	CNX	HKT
AFRICA	61.9%	-	-	-	56.2%	-	-	-
AMERICA	-	-	-	-	97.7%	-	-	-
ASIA PACIFIC	74.7%	78.6%	69.4%	72.1%	82.1%	78.6%	82.1%	73.5%
EUROPE	85.2%	-	-	85.8%	83.6%	-	-	80.8%
MIDDLE EAST	79.1%	-	-	81.6%	81.4%	-	-	81.7%
OCEANIA	81.3%	-	-	95.0%	85.7%	-	-	93.1%



# AOT

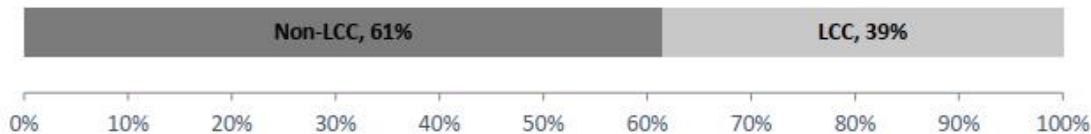
## FY2023 International Traffic

No. of Schedule Airlines: **84 Non-LCCs + 38 LCCs**

	Schedule	Non-Schedule	Total Int. Pax
<b>PAX (million)</b>	<b>54.40</b>	<b>1.45</b>	<b>53.90</b>
<i>%Recovery from 2019</i>	<i>63.1%</i>	<i>85.6%</i>	<i>63.6%</i>



Non-LCC vs LCC Passengers



Top 5 Destinations by Passenger (%Recovery)



Top 5 Airlines by Passenger (%Recovery)

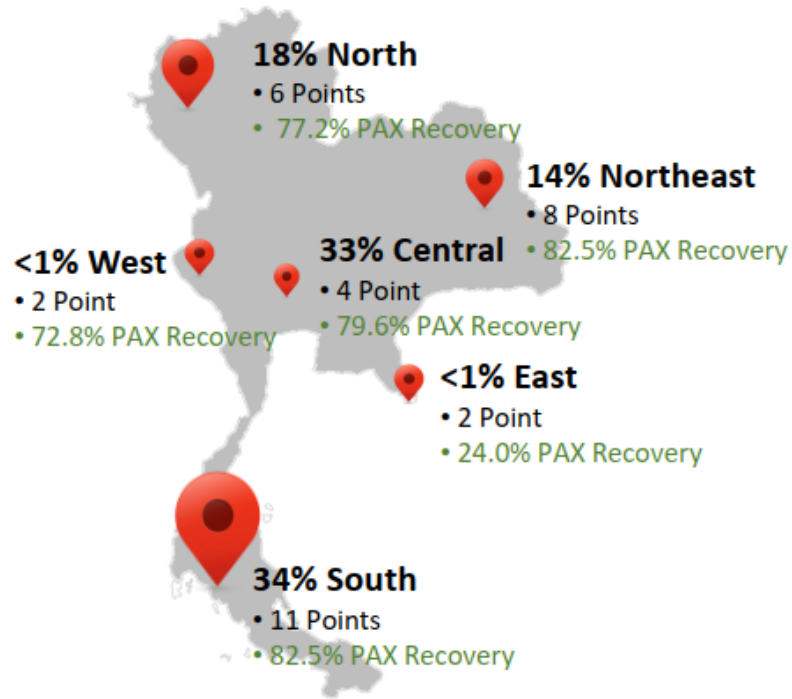


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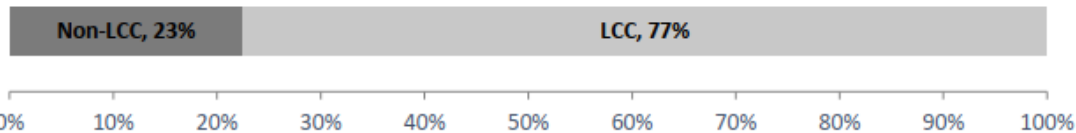
## FY2023 Domestic Traffic

No. of Schedule Airlines: **2 Non-LCCs + 4 LCCs**

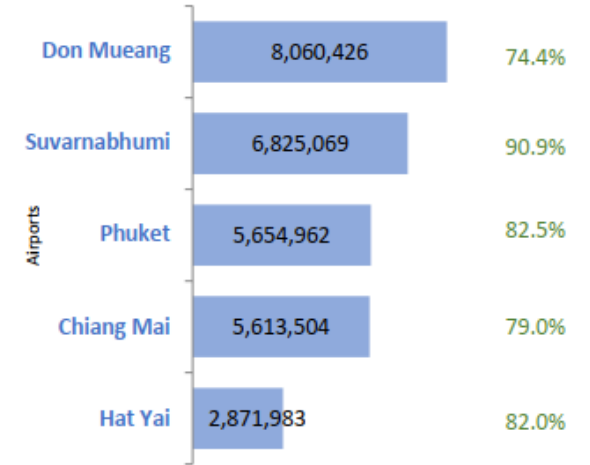
	Schedule	Non-Schedule	Total Int. Pax
<b>PAX (million)</b>	<b>45.66</b>	<b>0.49</b>	<b>46.15</b>
<i>%Recovery from 2019</i>	<i>80.8%</i>	<i>93.2%</i>	<i>80.9%</i>



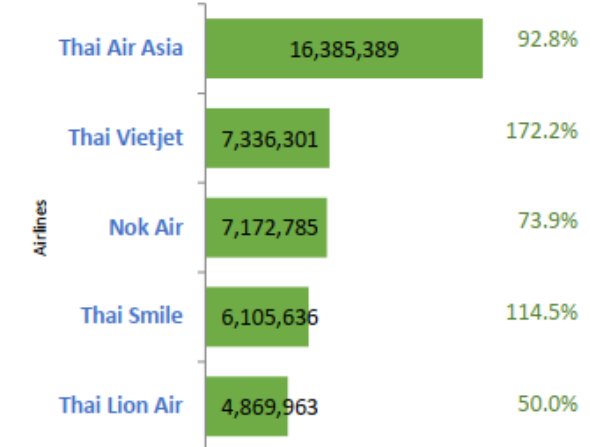
Non-LCC vs LCC Passengers

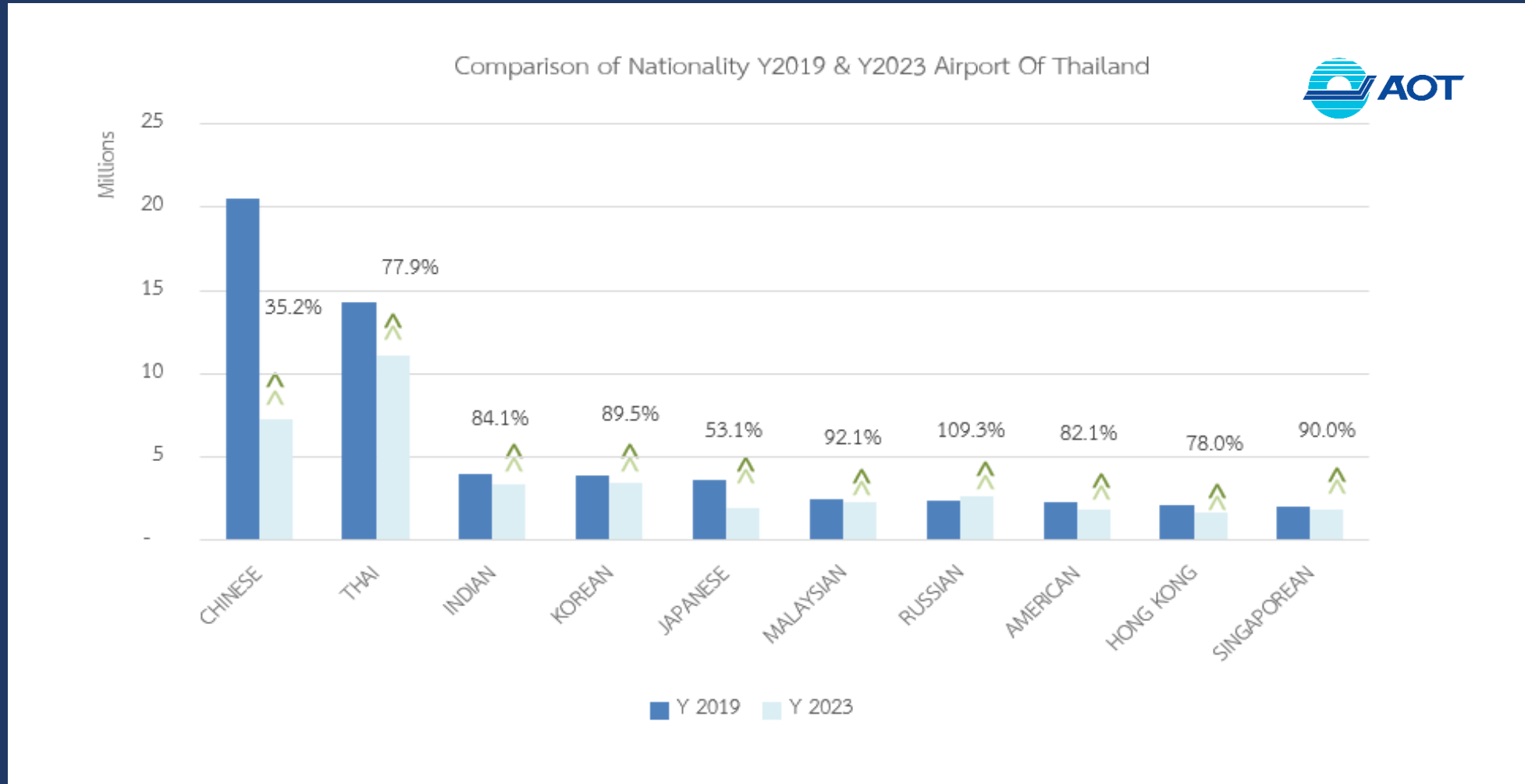


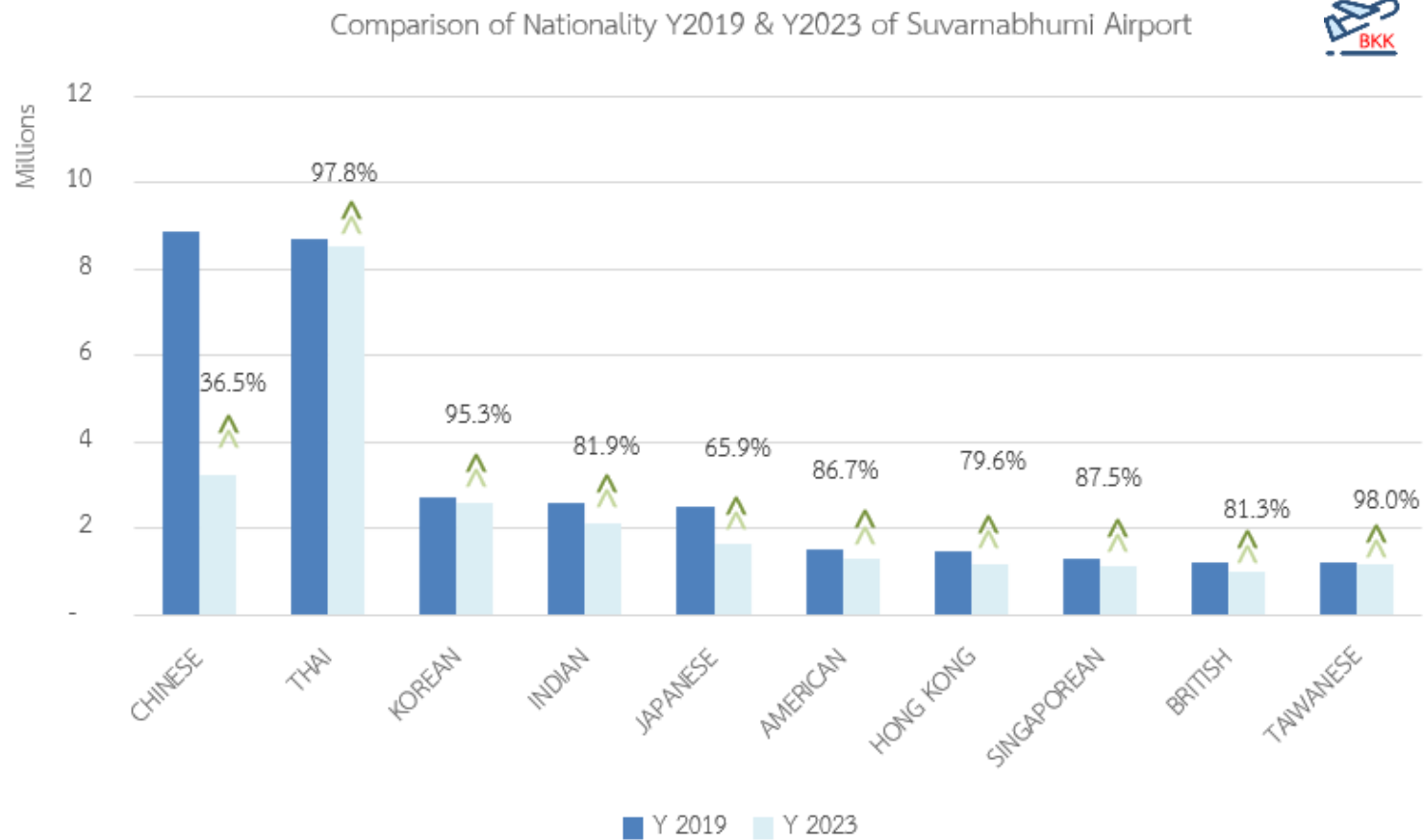
Top 5 Destinations by PAX (%Recovery)



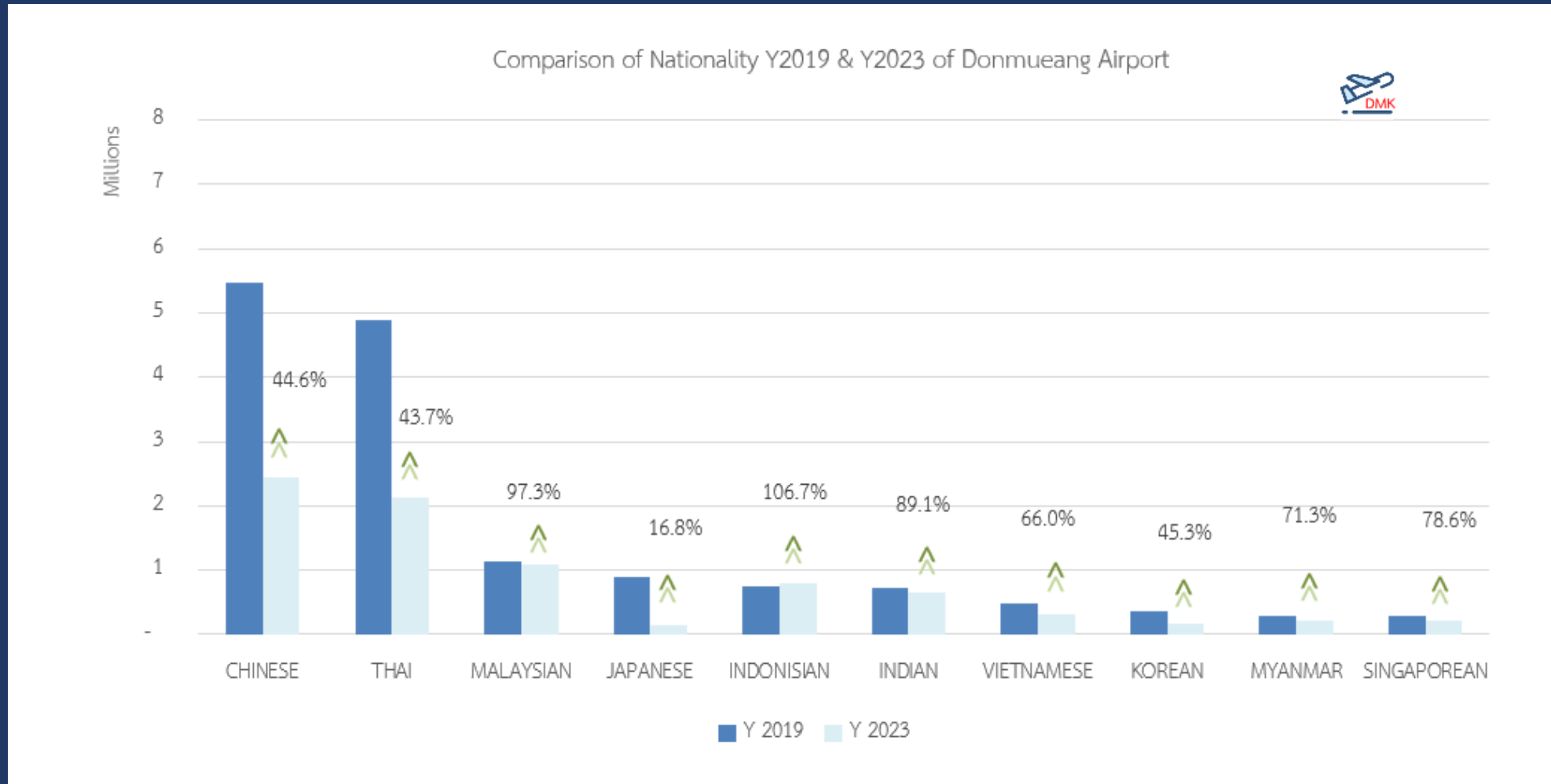
Top 5 Airlines by PAX (%Recovery)



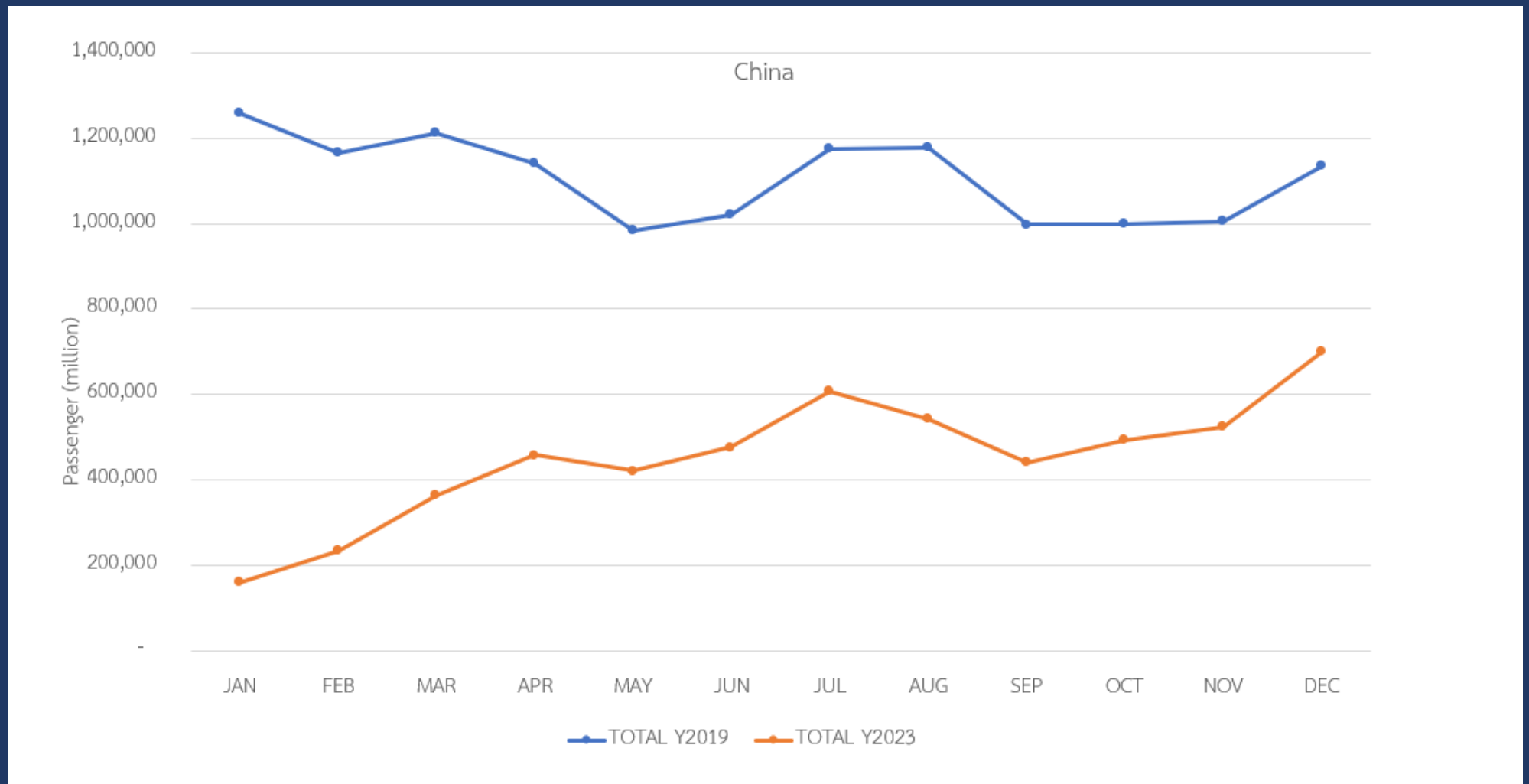








## Comparison of Chinese Passenger (Arrival)



## Chinese Visa Policy (Arrival)



# 06

## Traveler pattern

### Free Independent Traveler (FIT) Group Inclusive Tour (GIT)

(FIT)



Y2019

98%

(83,502,39 passenger)

Y2023

97.3%

(57,904,993 passenger)

(GIT)



2%

(1,728,382 passenger)

2.7%

(1,591,283 passenger)



(85,230,772 passenger)

(59,496,276 passenger)



# Airport Development Projects.





# Suvarnabhumi Airport (BKK)



CNX

CEI



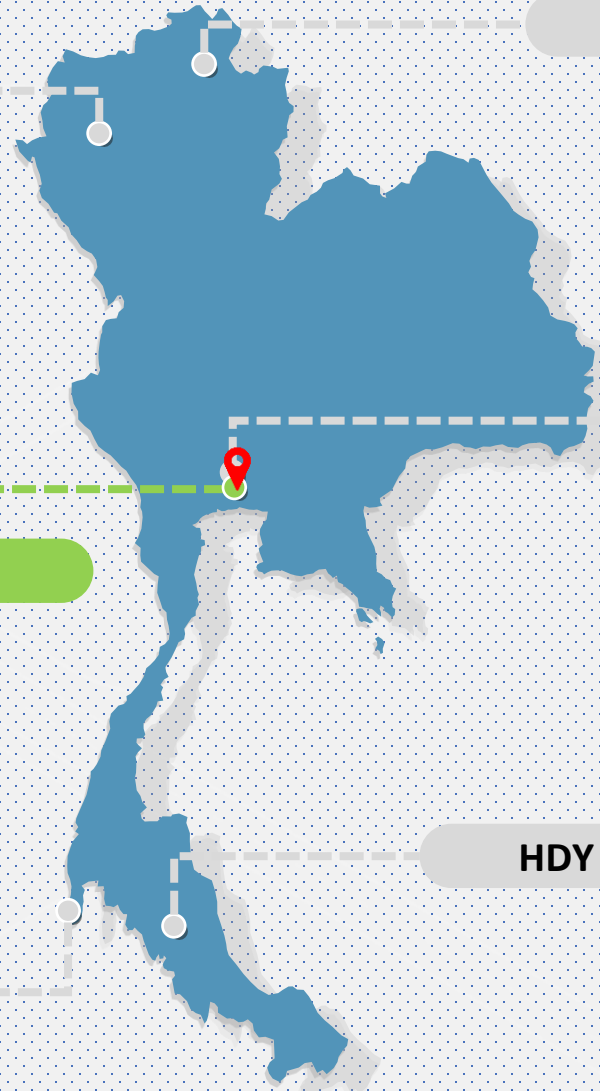
BKK

DMK

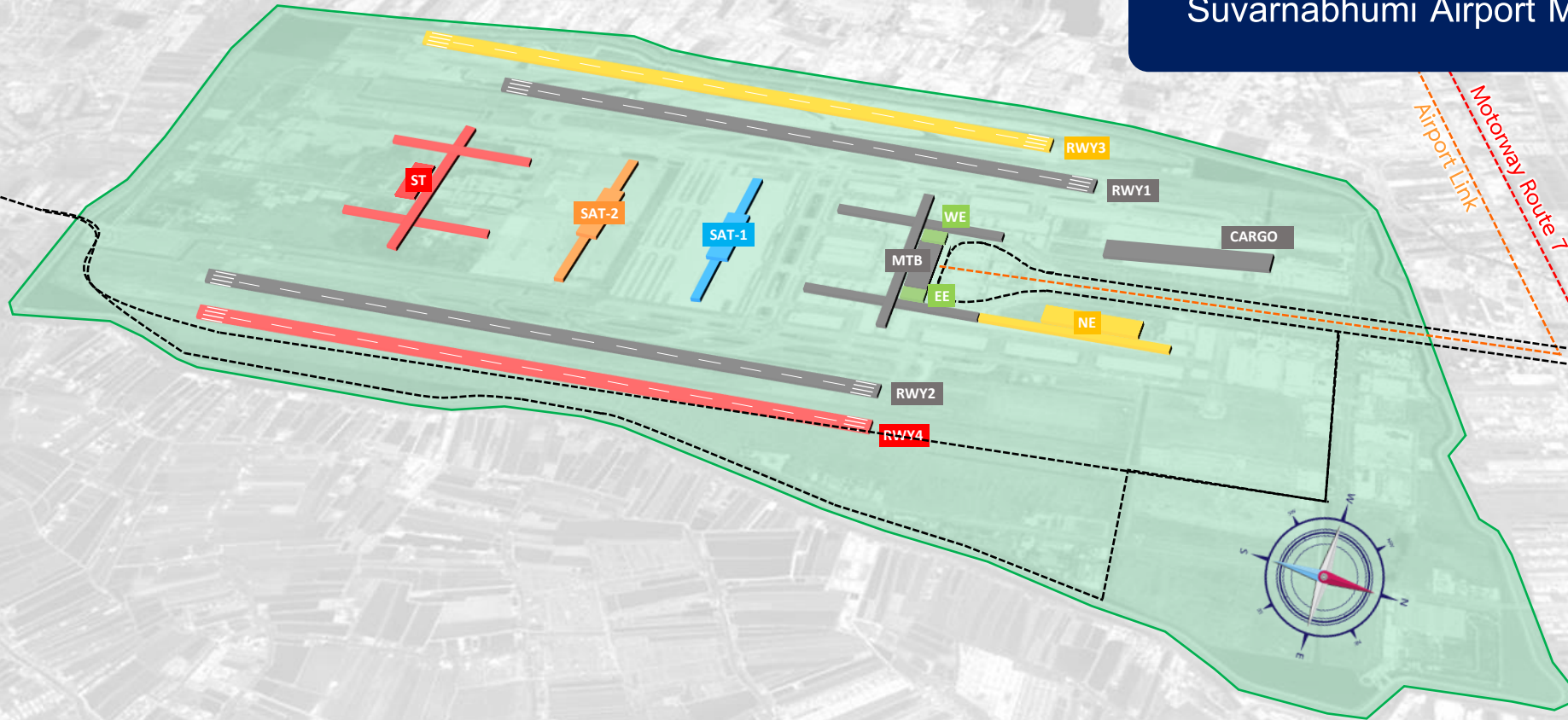


HKT

HDY



# Suvarnabhumi Airport Master Plan



## Present

45 million annual passengers (MAP)  
 68 flights / hour

- Main Terminal Building (MTB)
- Runway 1 and 2
- 120 Parking Bays (51 Contact, 69 Remote)

## Phase 2 2023

60 million annual passengers  
 68 flights/hour

- Midfield Satellite Building 1 (SAT-1)

## Phase 3 2016-2024

90 million annual passengers  
 94 flights/hour

- Runway 3
- North Expansion

## Phase 4 2021-2026

105 million annual passengers  
 94 flights/hour

- Midfield Satellite Building 2 (SAT-2)

## Phase 5 2025-2030

150 million annual passengers  
 120 flights/hour

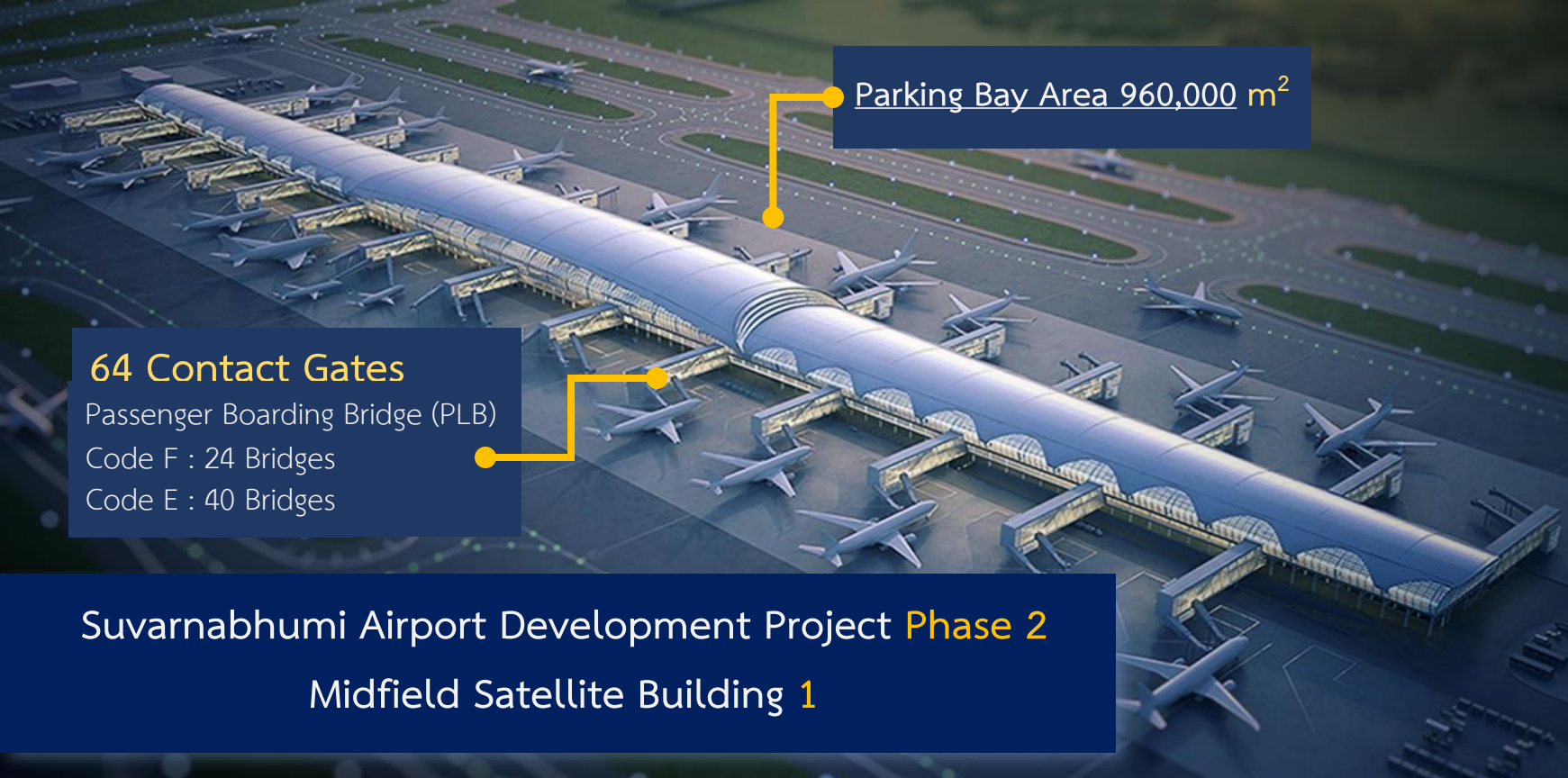
- South Terminal Building
- Runway 4

## Extra Phase

150 million annual passengers  
 120 flights/hour

- East Expansion and West Expansion





Parking Bay Area 960,000 m<sup>2</sup>

**64 Contact Gates**  
 Passenger Boarding Bridge (PLB)  
 Code F : 24 Bridges  
 Code E : 40 Bridges

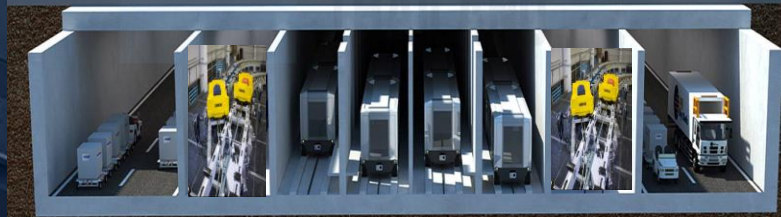
**Suvarnabhumi Airport Development Project Phase 2**  
**Midfield Satellite Building 1**



**BHS**

Baggage Handling Capacity : **180 bags/minute**  
 Speed : **600 meters/minute**  
 System : Individual Carrier System (ICS)

Tunnel Connecting SAT-1 to MTB (Length of 1 km)



Service Road    BHS    APM    BHS    Service Road

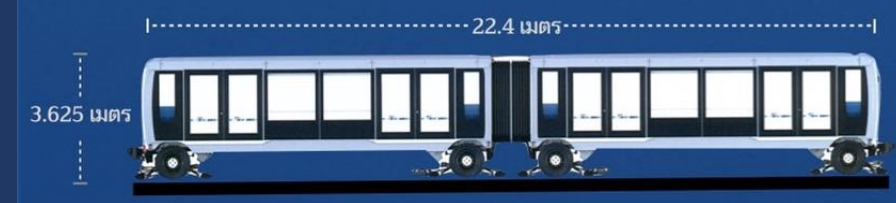
Increasing the annual handling capacity from **45 million to 60 million** passengers per year

Consisting of 4 floors and 2 underground floors  
 (Building Areas of **216,000 m<sup>2</sup>**)

- B2 FL. APM Station
- B1 FL. System Work
- G FL. Baggage Conveyor System
- 2 FL. Arrival
- 3 FL. Departure
- 4 FL. Shops & Restaurants

**28 aircraft parking bays**

Divided into:  
Code E:  
 20 parking bays  
 and  
Code F:  
 8 parking bays



**APM**

Travel Time (MTB-SAT-1) : **60 seconds**  
 Speed: 50-55 km/hr (max 80km/hr)  
 distance : 940m (NMTB – SAT 1)  
 Handling Capacity: 3,590 pax/hr  
 Waiting Time: **Less than 3 mins**







## 3<sup>rd</sup> Runway Construction Project Suvarnabhumi Airport 3rd Runway & Parallel Taxiway

### Construction of Runway and Taxiway Pavements :

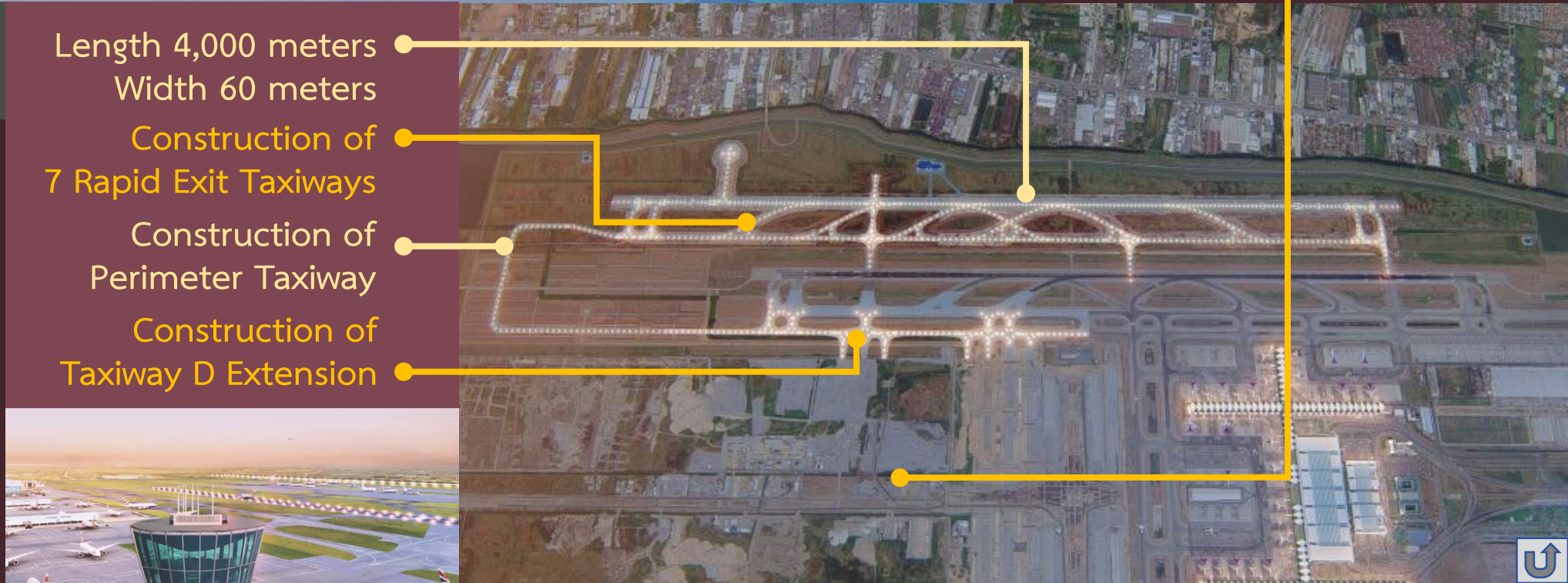
1. Flexible Pavement made from asphalt surfaces for general runway and taxiway
2. Rigid Pavement made from concrete surfaces on Taxiway D Extension-1

### Ground Quality Improvement Work

Around the contact gate area of  
Midfield SAT-2  
Total area : **917,000 m<sup>2</sup>**

Precision approach runway  
category 2

- Length 4,000 meters
- Width 60 meters
- Construction of 7 Rapid Exit Taxiways
- Construction of Perimeter Taxiway
- Construction of Taxiway D Extension



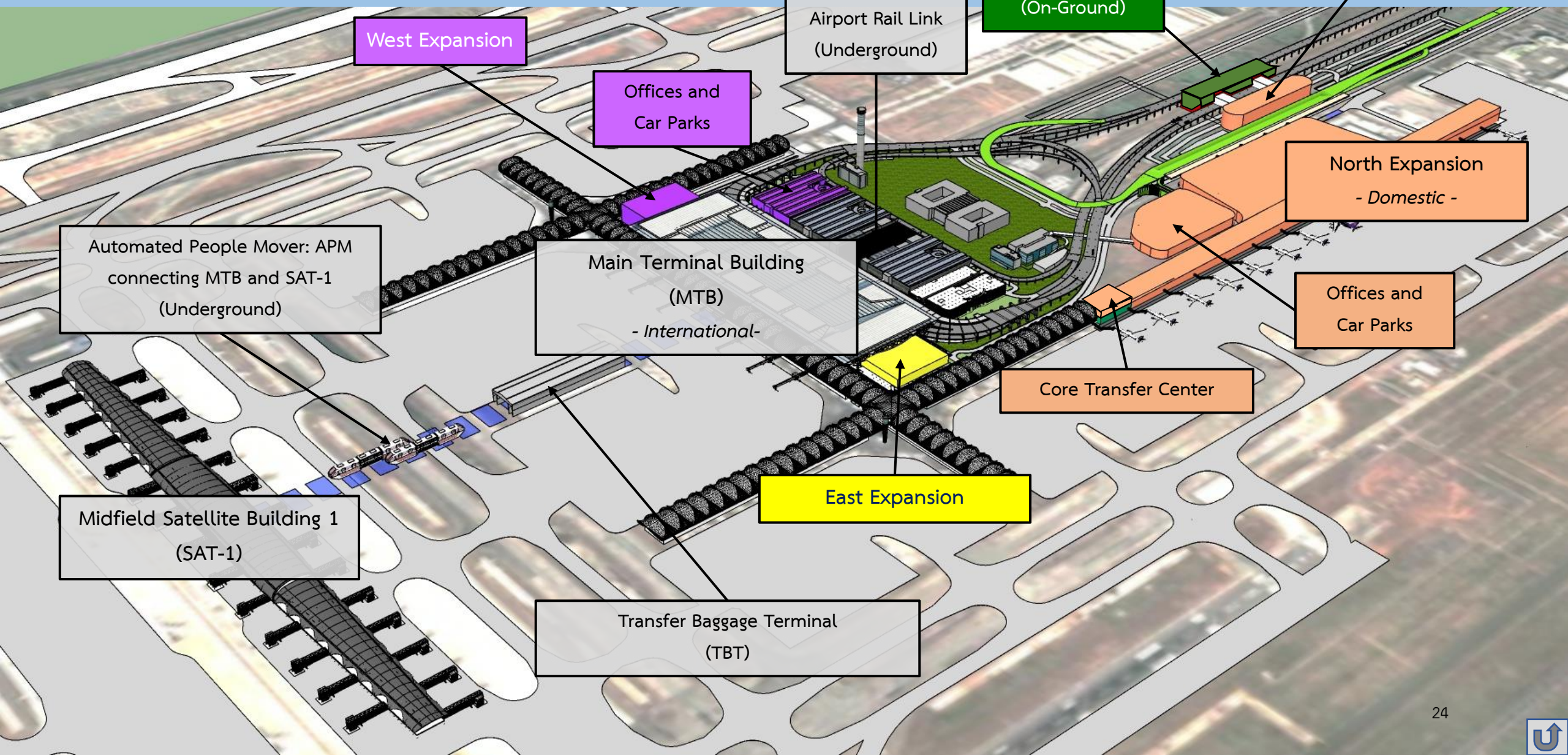
Increasing Flight  
Handling Capacity  
68 flights/hour to

**94**  
flights/hour





# Suvarnabhumi Airport Development Project Phase 3



West Expansion

Offices and Car Parks

Airport Rail Link (Underground)

Airport Rail Link (On-Ground)

Ground Transportation Center

Automated People Mover: APM connecting MTB and SAT-1 (Underground)

Main Terminal Building (MTB) - International

North Expansion - Domestic -

Offices and Car Parks

Midfield Satellite Building 1 (SAT-1)

Core Transfer Center

East Expansion

Transfer Baggage Terminal (TBT)





# Extra Phase

## Project Details

- Construction of Suvarnabhumi East Expansion to increase passenger handling capacity to 15 million annual passengers

## Operational Plan

- Design Improvement period,  
June 2023 - August 2024  
- Construction period ,  
Feb 2025 – Feb 2071

## Work Progress

- Design adjustment process

Construction of EAST EXPANSION



Cabinet approved the budget and  
EIA approved the project

2023

2024

2025

2026

2027

2028

2029

2030

Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4

improvements

Cabinet Approval

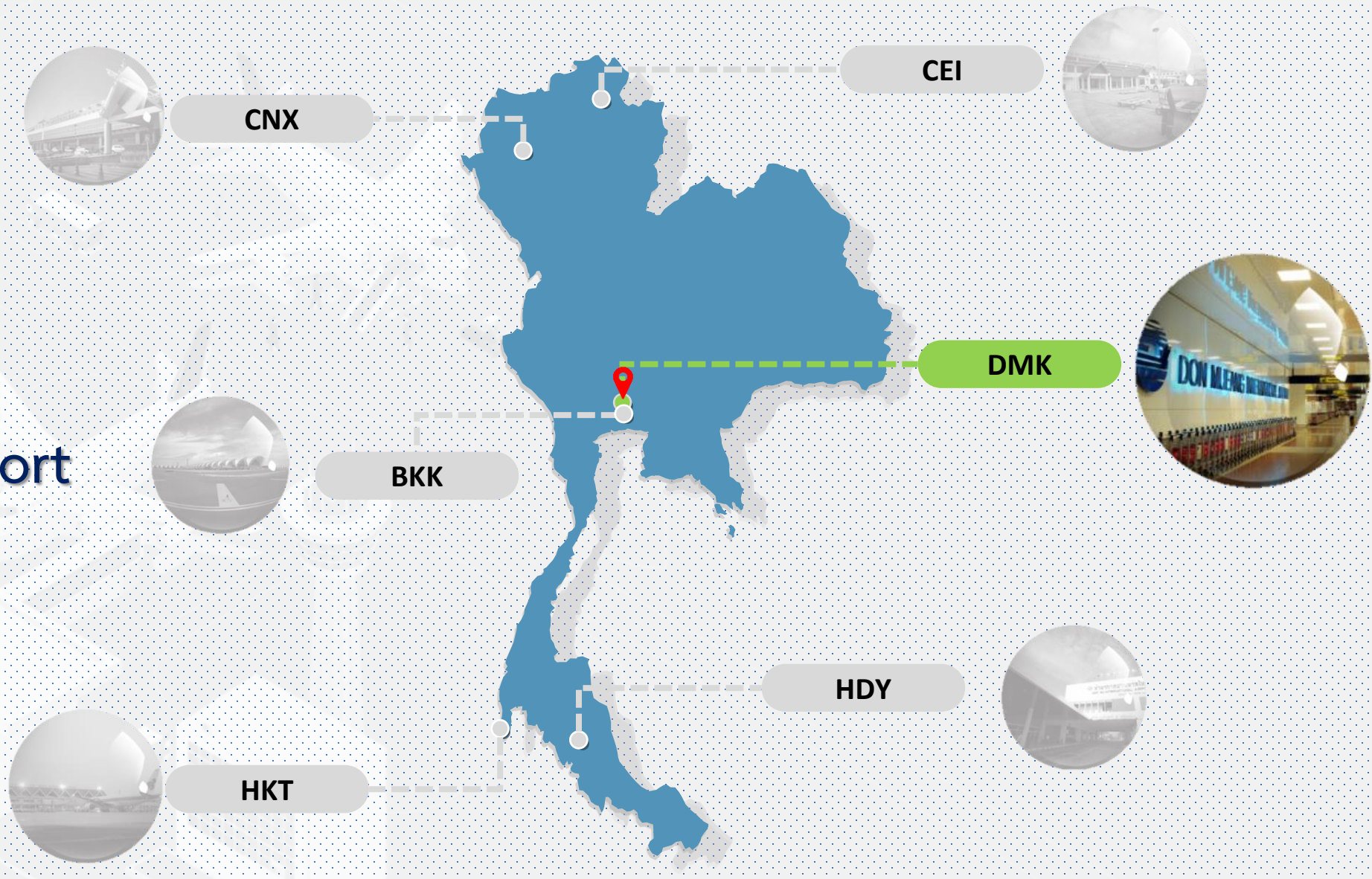
46 million Baht

Procurement for

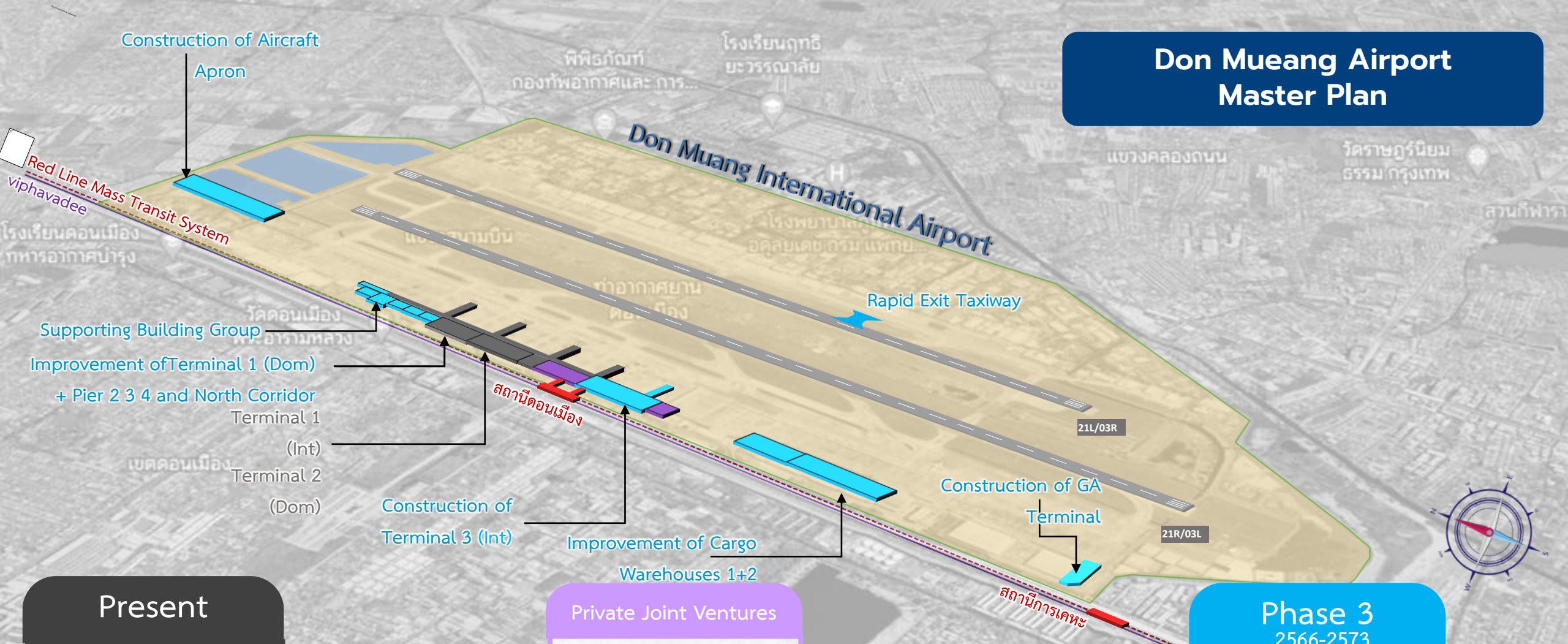
Construction period

11,500million

# Don Mueang International Airport (DMK)



# Don Mueang Airport Master Plan



**Present**

- 30 MAP
- 50 flights/hour
- Terminal 1 (Inter)
- Terminal 2 (Dom)
- 114 Parking Bays (27 Contact, 87 Remote)



**Private Joint Ventures**

- Junction Building
- Car Park Building



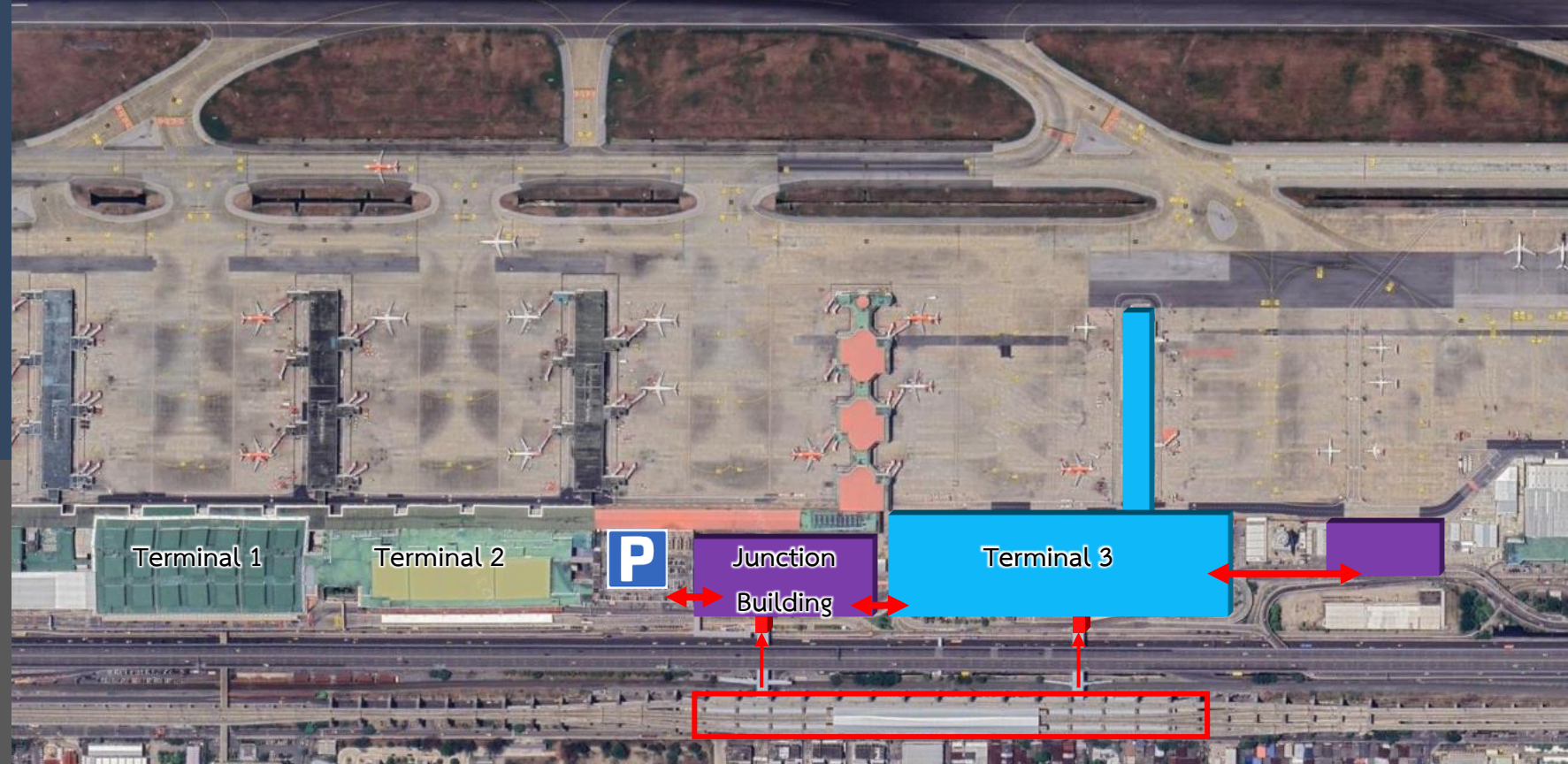
**Phase 3**  
2566-2573



- 50 MAP
- 50 flights/hour
- Terminal 3 (Inter)
- Improvement of Terminal 1 (Dom)

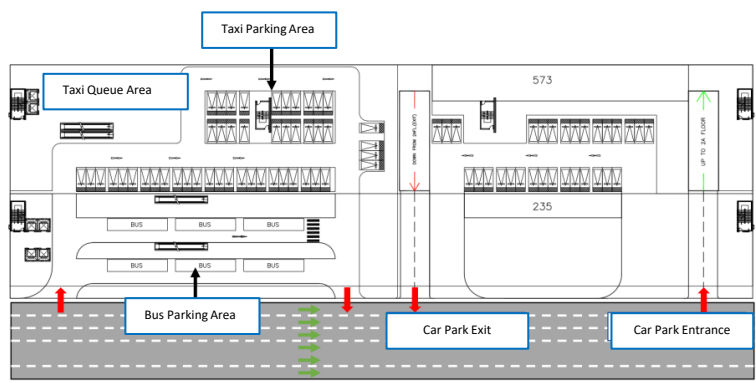


# JUNCTION BUILDING

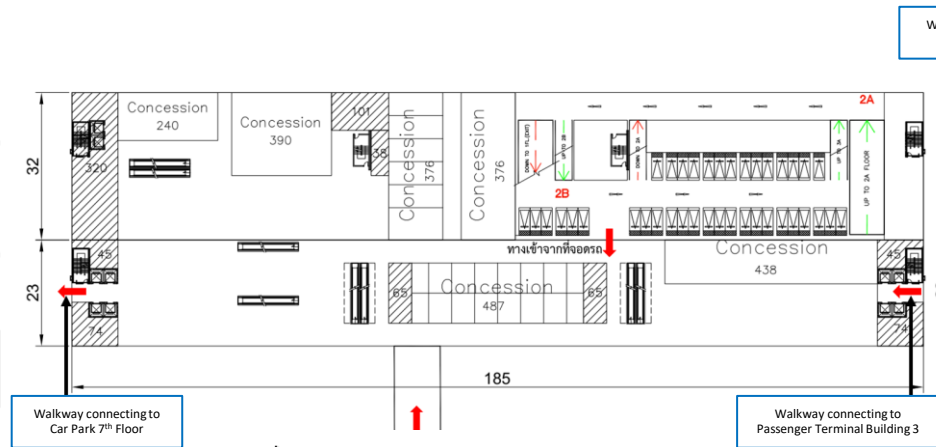
To be a connecting point of changing mode of transport from air to others as well as being a space for providing other facilities apart from main airport facilities.



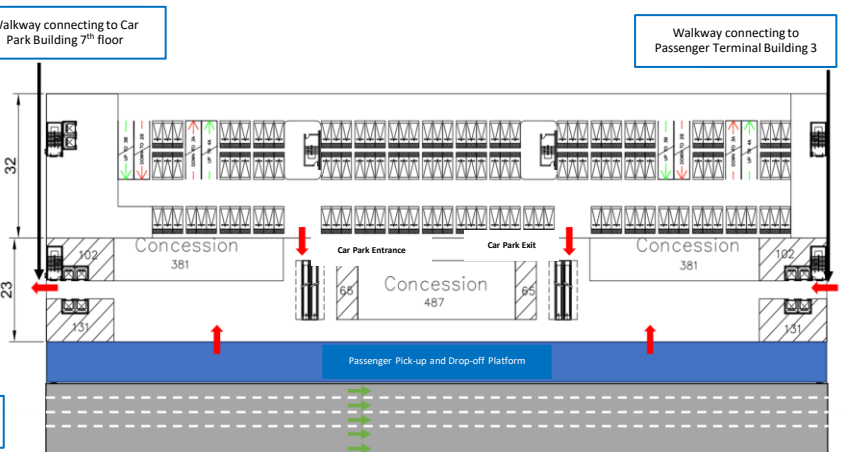
-  area 97,680 m<sup>2</sup>
-  Commercial area 19,000 m<sup>2</sup>
-  Car Park 1,100 spaces



1<sup>st</sup> Floor : Bus & Taxi



2<sup>nd</sup> Floor: Arrival Meeting Point / train connection



3<sup>rd</sup> Floor: Departure Meeting Point



## Project Details

Constructing an international passenger terminal and renovating Terminal 1 to increase the accommodating capacity of passengers from 30 to 50 million passengers per year.

## Operational Plan

- Design Period, June 2023 – August 2024
- Construction Period, May 2025 – Dec 2030

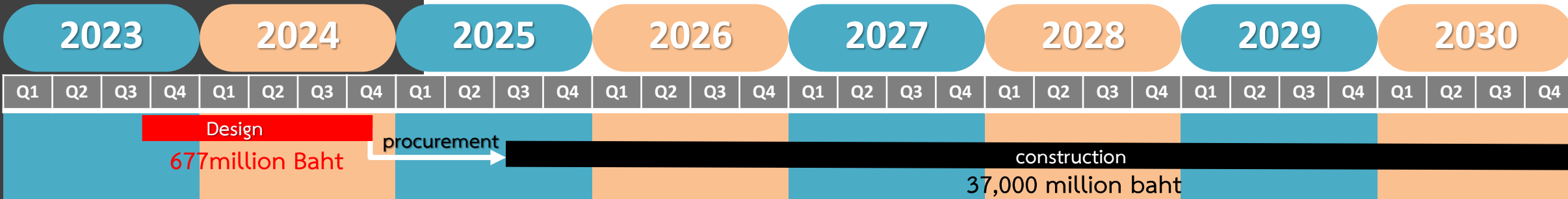
## Work Progress

- under design

# DMK Development Project Phase 3



Cabinet approved the budget and EIA approved the project



# PHUKET INTERNATIONAL AIRPORT (HKT)

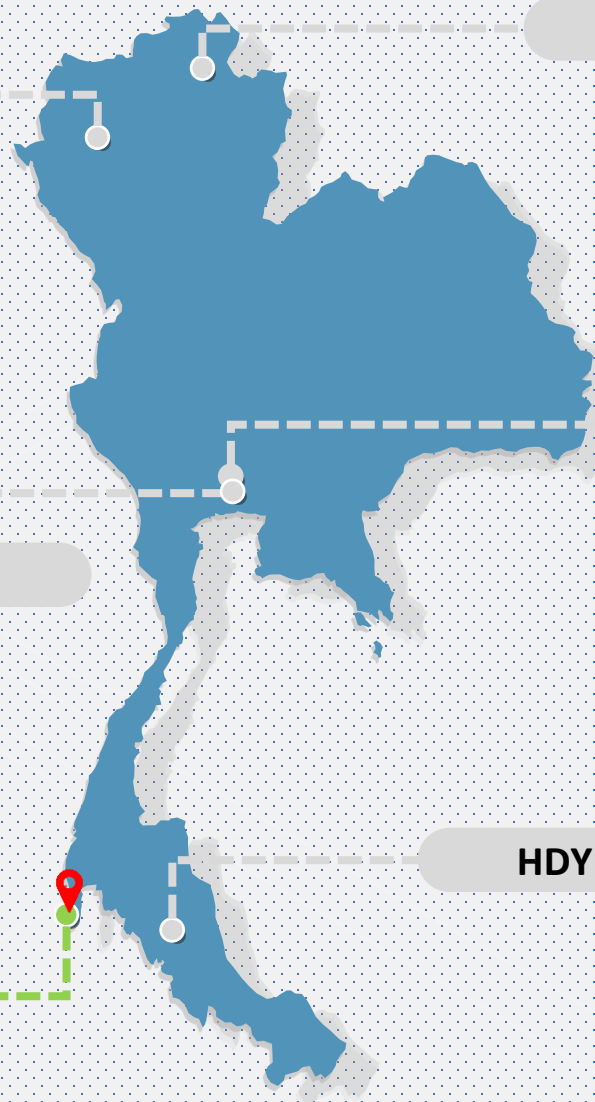


CNX



BKK

HKT



CEI

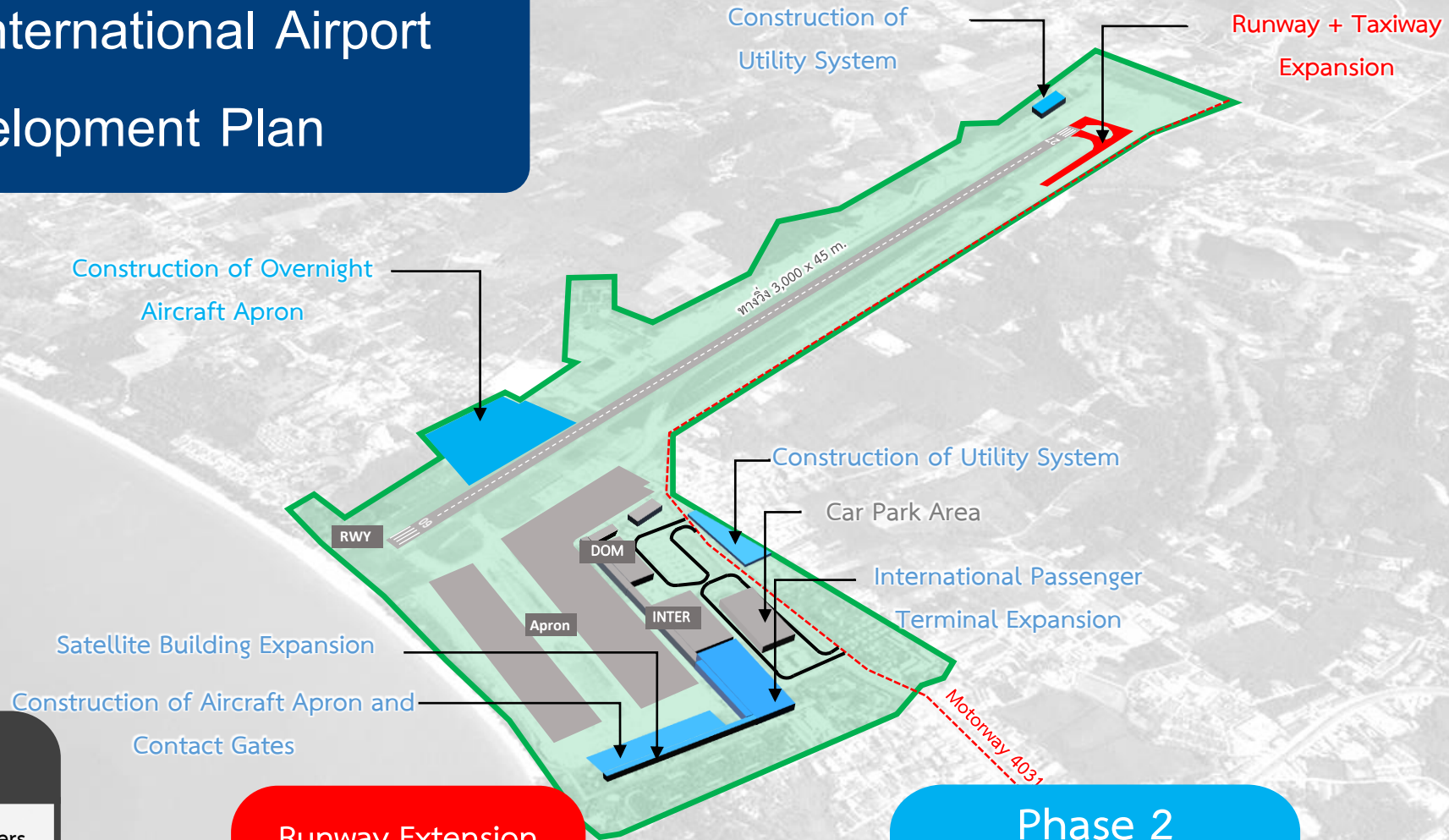
DMK

HDY





# Phuket International Airport Development Plan



## Phase 1 At Present

12.5 million annual passengers  
20 flights/hour

- Domestic and International Passengers Terminal
- Runway 1
- 25 Parking Bays (11 Contact, 14 Remote)

## Runway Extension (In progress)

- 25** flights/hour
- 100 meters length extension on Runway No. 27
  - Taxiway extension parallel to the P route

## Phase 2 2023-2029

- 18** million annual passengers  
**25** flights/hour
- Expansion of International Passenger Terminal, and Apron
  - Improvement of Utilities System

## Phase 3

- Processing the transfer execution of Krabi International Airport
- Conducting a feasibility study of Andaman International Airport

## Project Details

Constructing the extension of international passenger terminal to increase the handling capacity of passengers from 12.5 to 18 million passengers per year.

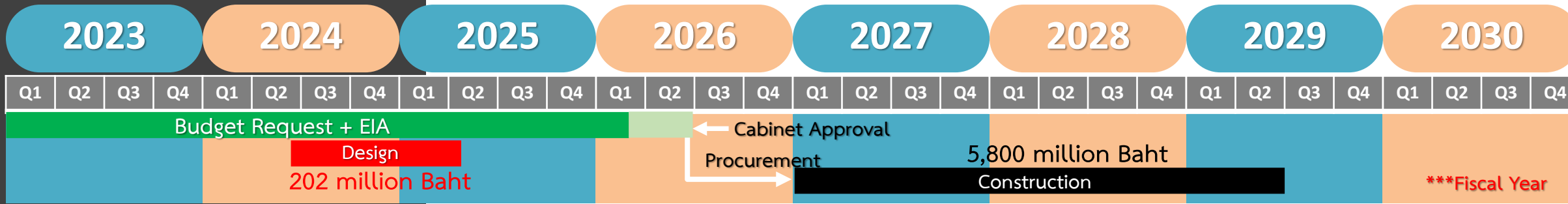
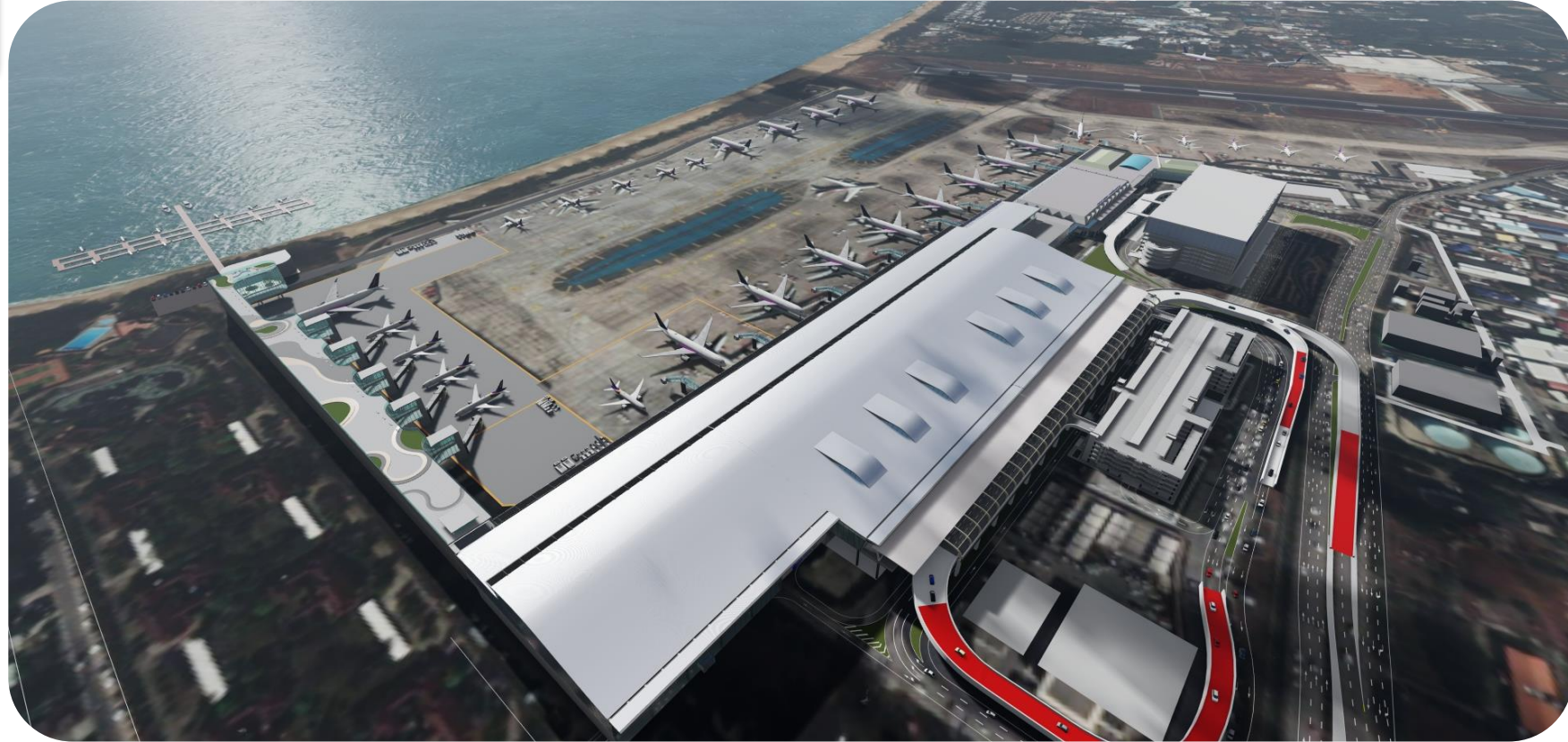
## Operational Plan

- Designing Period,  
Mar 2024 – Feb 2025
- Proposing EIA and the Cabinet for approving of the plan in April 2026
- Construction Period,  
Oct 2026 – March 2027

## Work Progress

- In the process of procuring a design contractor

# Phuket International Airport Development Project **Phase 2**

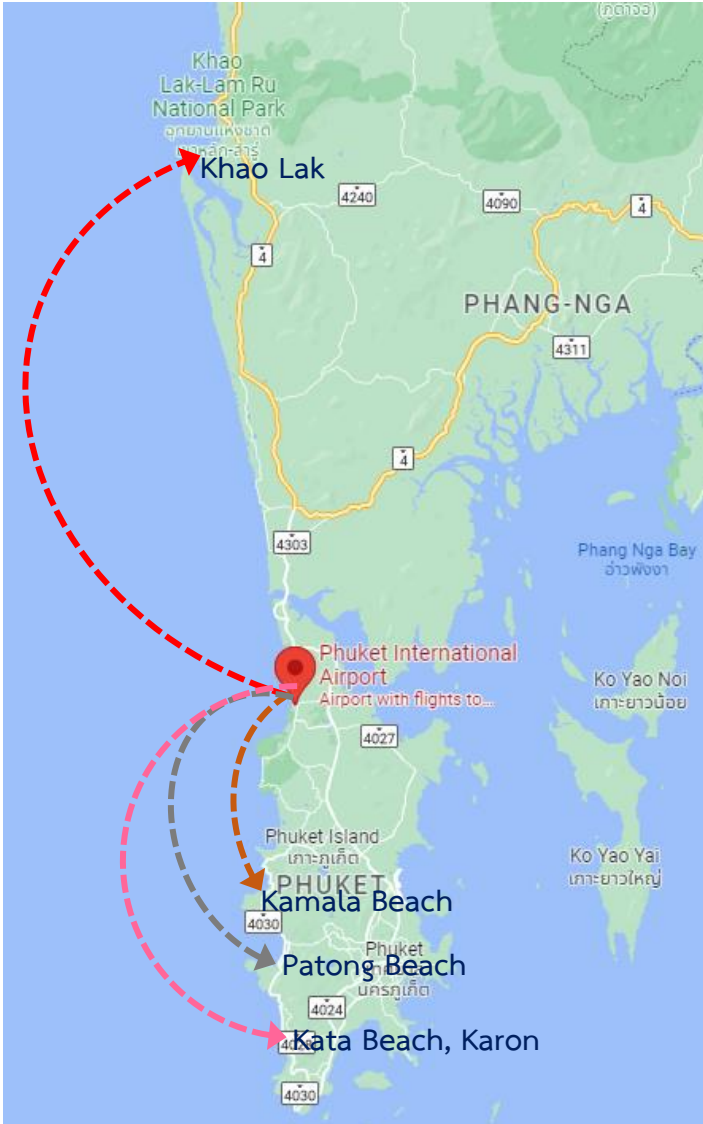
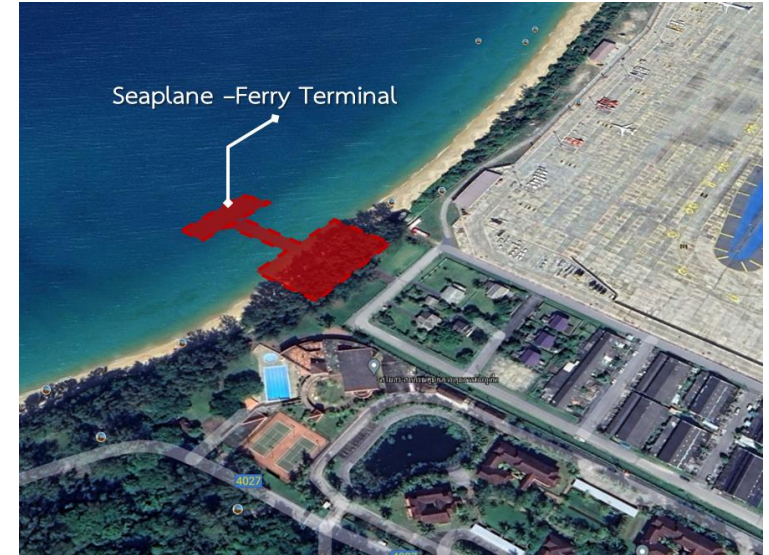




# HKT : Phuket International Airport (Seaplane & Ferry Terminal)

● Travelling route from the Phuket ferry terminal, and projections of passenger numbers and benefits

Location : Seaplane – Ferry Terminal



Routes from the Airport	Travelling time (minutes)		
	Road	Ferry	Reduced Time
Kamala Beach	42	20	22
Patong Beach	62	30	32
Kata Beach, Karon	75	37	38
Khao Lak	65	55*	10

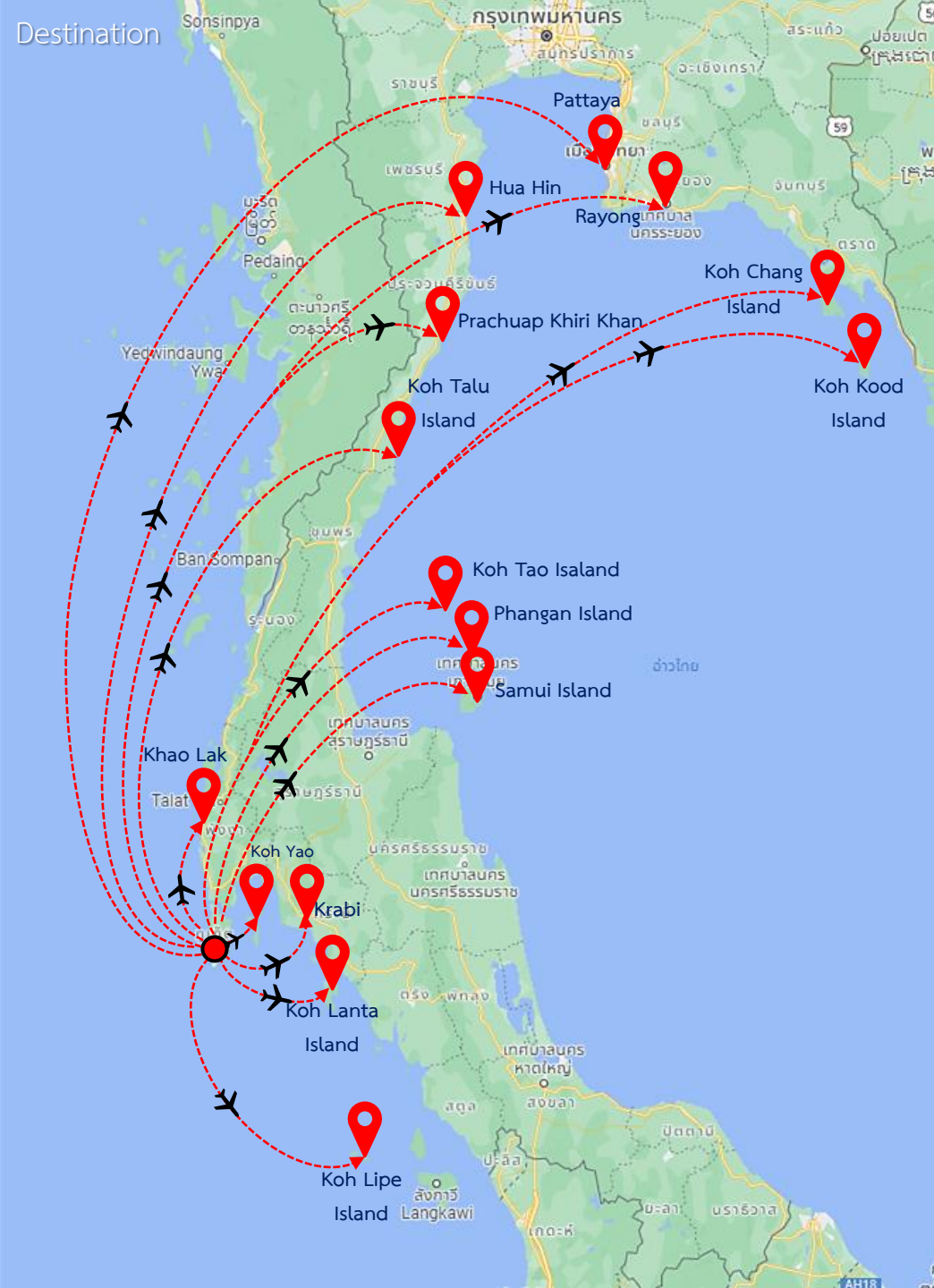
Forecast for passenger numbers	Not less than 370,000 pax/year
Service period/year	6 month (Nov-Apr)

### Benefits from the Project

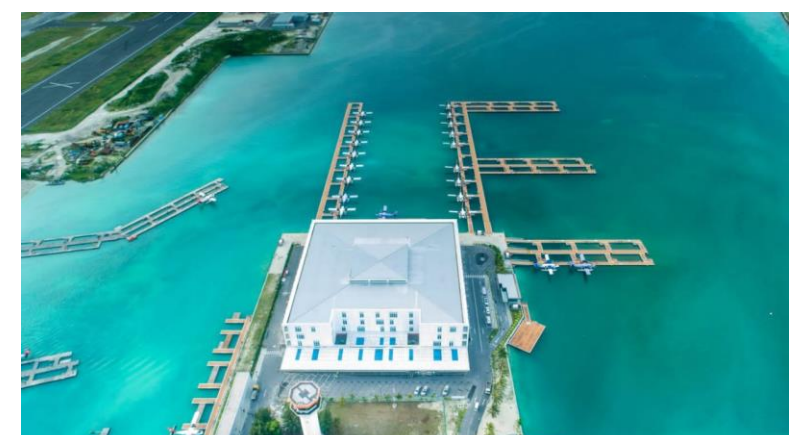
- Reduced Travelling time
- Ferry Routes are additionally optional and more convenient for tourists to go to their destinations such as Group of Similan Island.
- No delays and reducing traffic congestion within the Area of Phuket Province.

Source: Feasibility study and design survey on tourist Ferry Terminal around Phuket airport area (boarding boat – aircraft, Marine Department) which brings to more study on reports.





# Seaplane Routes



# Chiang Mai International Airport (CNX)



CNX



BKK



HKT



CEI



DMK

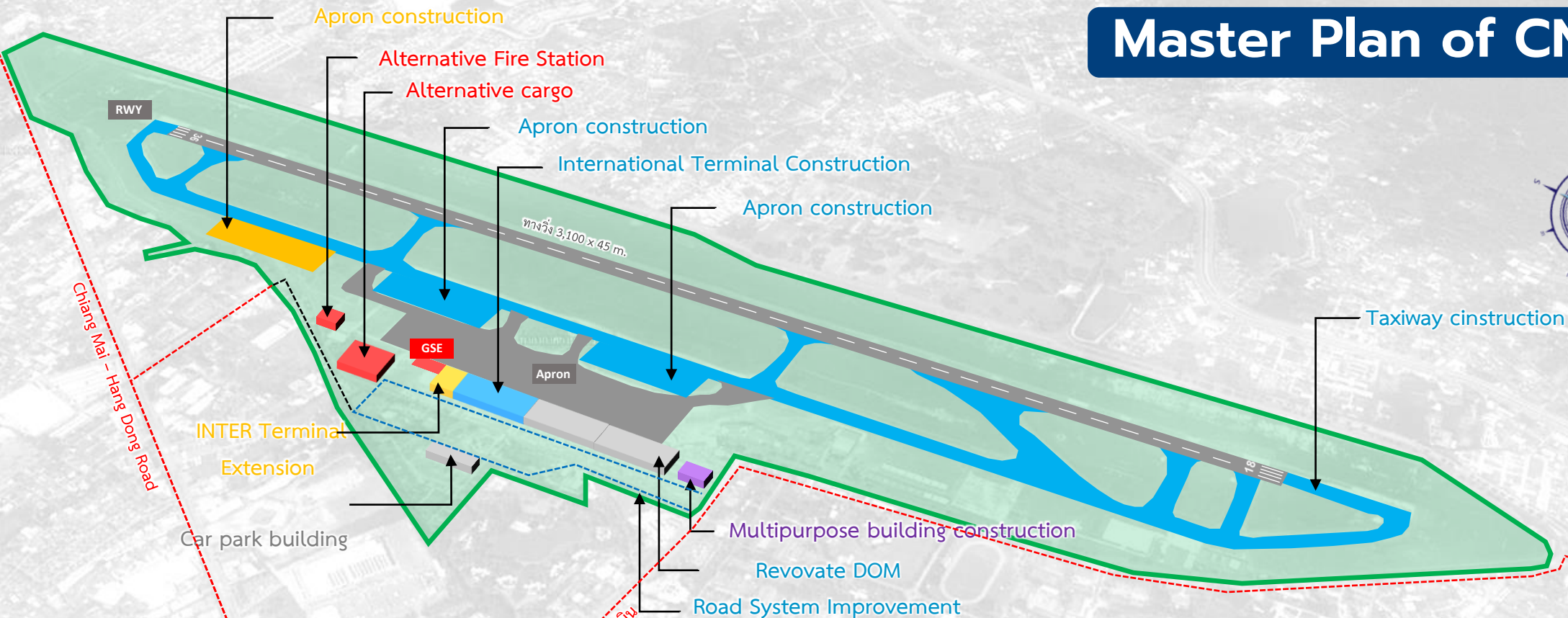
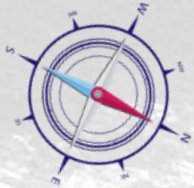


HDY





# Master Plan of CNX



**At present**

- 8 million annual passengers
- 24 flights/hour
- Passenger Terminal
- Runway 1
- 12 parking bays (6 Contact, 6 Remote)

**PPP concession**

- Construction of multi-function building

**Construction of alternative building**

- Cargo
- Fire and Rescue station
- GSE

**Phase 1**  
2023 - 2029

- 16.5 million annual passengers
- 31 flights/hour
- Construction of International Terminal
- Construction of parallel taxiway and apron

**Phase 2**  
In process of revision

- 20 million annual passengers
- 31 flights / hour
- Construction of passenger terminal extension and apron

**New Airport**



# Chiang Mai International Airport Development Project Phase 1

## Project Details

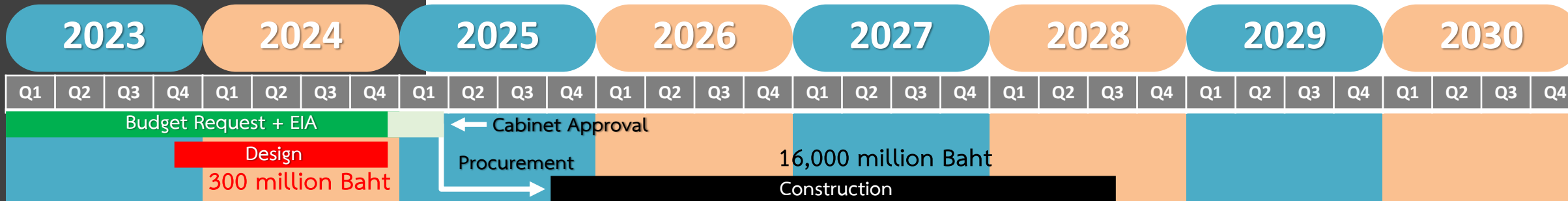
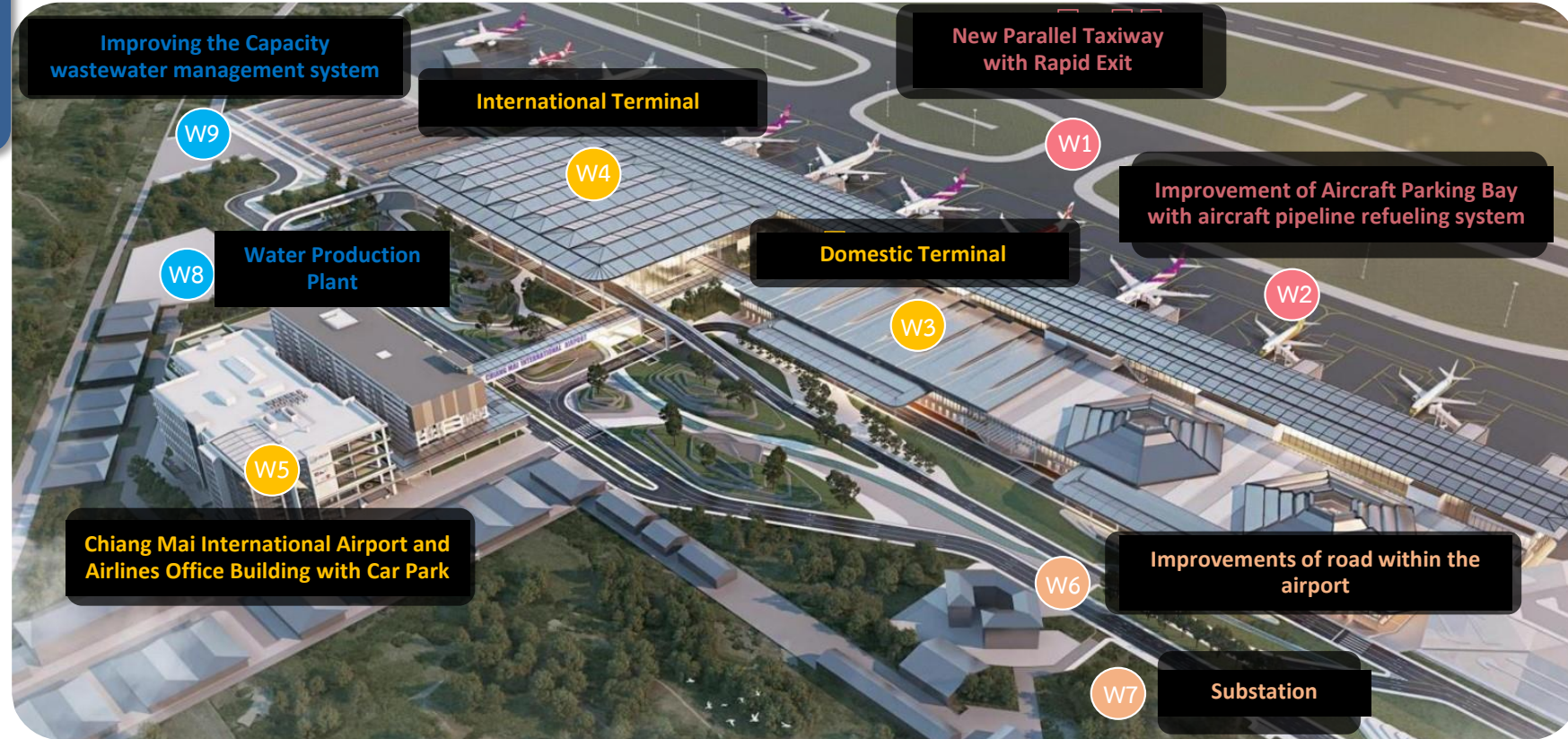
- Constructing a new international passenger terminal
- Modifying the existing passenger terminal into a domestic passenger terminal
- Resulting in the increasing capacity to accommodate passengers from 8 to 16.5 million passengers a year.

## Operational Plan

- Design Period, Aug 2023 – Aug 2024
- EIA and Cabinet Approval Period, Dec 2024
- Construction Period, July 2025 – May 2028

## Work in Progress

- under design



# Mae Fah Luang - Chiang Rai International Airport



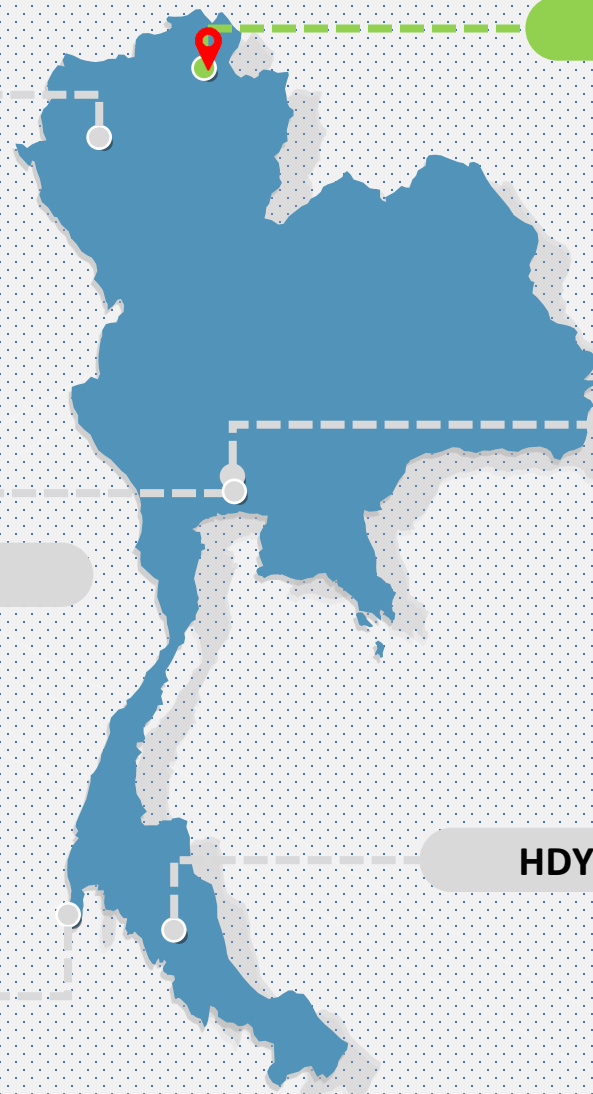
CNX



BKK



HKT



CEI



DMK

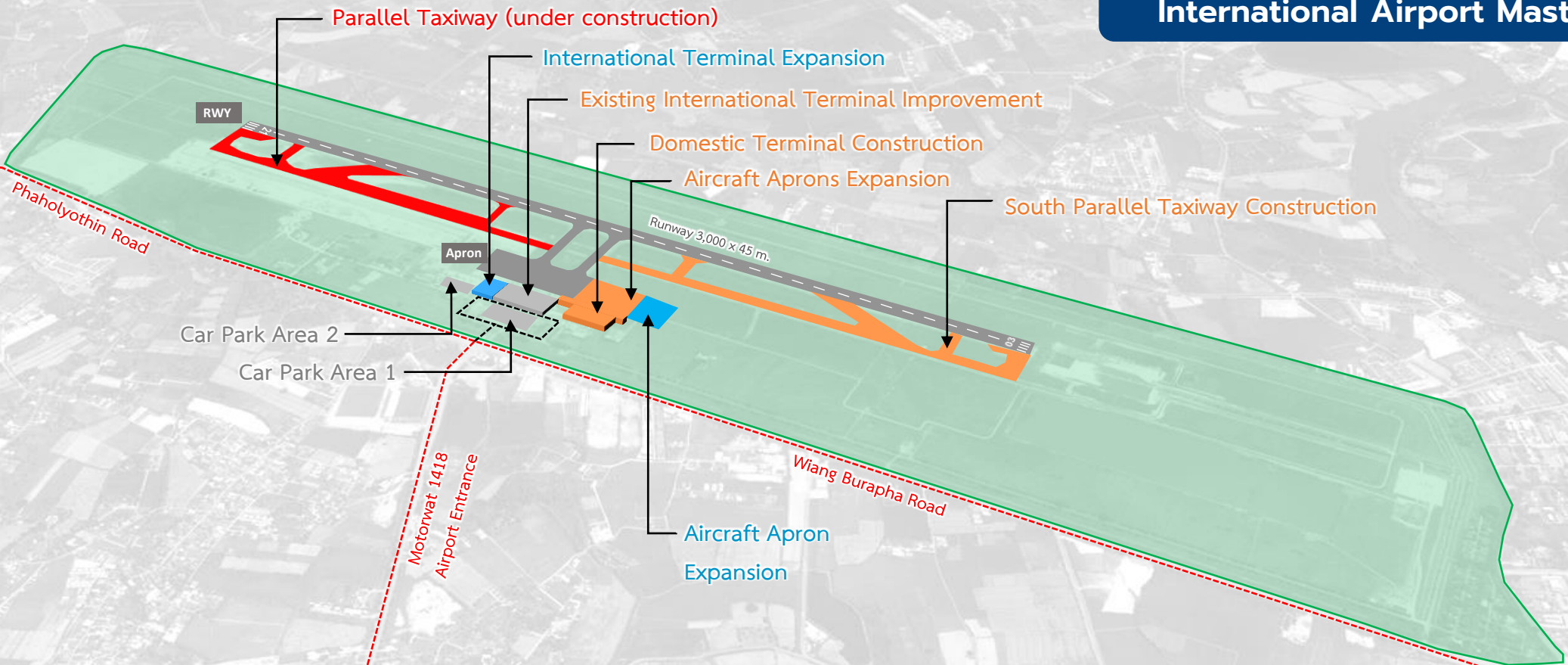


HDY





# CEI: Mae Fah Luang - Chiang Rai International Airport Master Plan



## At Present

3 million annual passengers  
 11 flights/hour  
 - Passenger Terminal Building  
 - Runway 1  
 - 7 Parking bays (3 Contact, 4 Remote)

## Taxiway Construction

- North Parallel Taxiway Construction

## Phase 1

6 million annual passengers  
 23 flights/hour  
 - Domestic Passenger Terminal building Construction  
 - South Parallel Taxiway

## Phase 2

8 million annual passengers  
 23 flights/hour  
 - International Passenger Terminal Expansion and Aircraft Apron Construction and utility system improvement

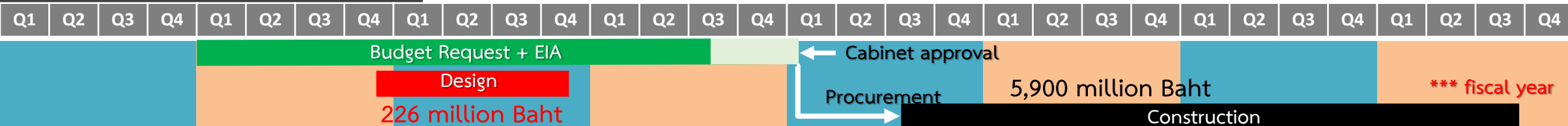
# Mae Fah Luang - Chiang Rai International Airport Development Project **Phase 1**



**Project Details**  
 -Increasing passenger handling capacity from 3 million to 6 million annual passengers

**Operational Plans**  
 - Design period, Sep 2024 – Aug 2025  
 - Proposal of the operational plan to EIA and the cabinet for approval in Oct 2027  
 - Construction period, May 2027 – June 2030

**Work in Progress**  
 Under TOR process and Employment of Design Contractor and EIA consulting services





# Hat Yai International Airport



CNX

CEI



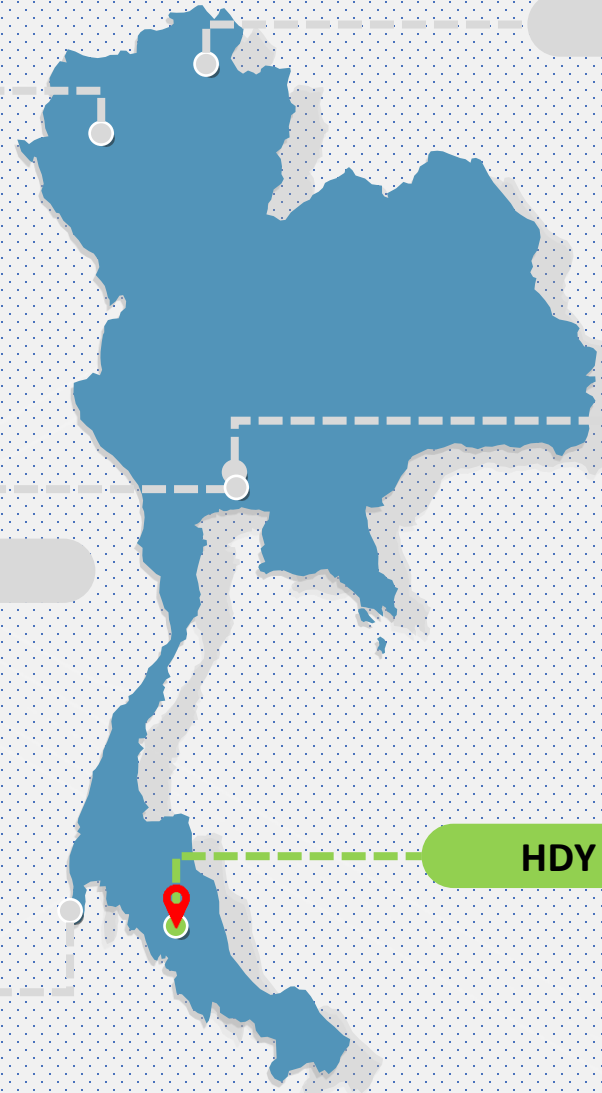
BKK

DMK

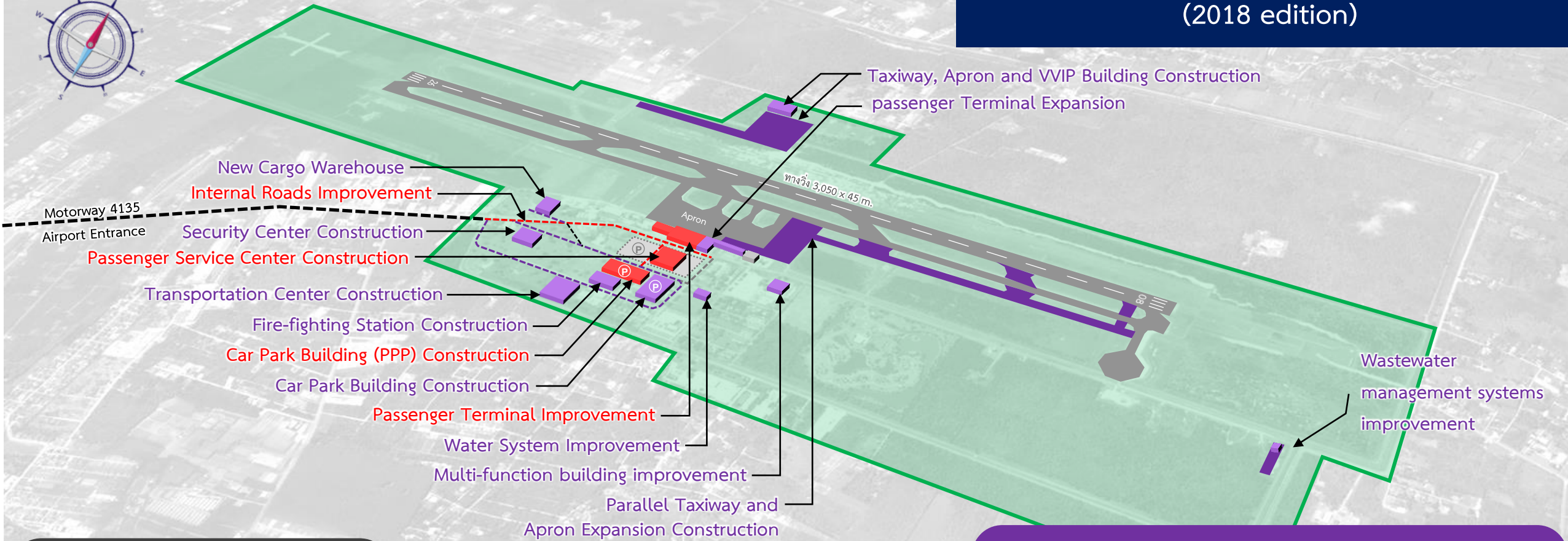
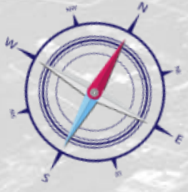


HKT

HDY



# Hat Yai International Airport Master Plan (2018 edition)



## Present

2.5 million annual passengers  
12 flights / hour

- Passenger Terminal
- Runway 1
- 9 parking bays  
(3 Contact, 6 Remote)

## Urgent Period

1. Passenger Service Building Construction and Passenger Terminal Improvement
2. Internal Roads improvement
3. Car Park Building Construction (PPP)

## Phase 1 (master plan under review)

10.5 million annual passengers (INT 0.7 + DOM 9.8)  
21 flights/hour

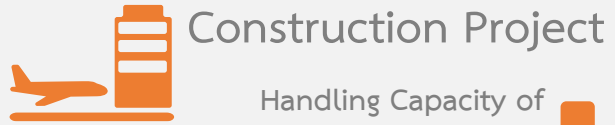
- Taxiway construction and apron expansion
- Passengers Terminal Building Expansion and Improvement
- Car Park Building and Cargo Warehouse Construction
- Multi-function building and Public Utility Systems Improvement



# New Airports and Transferred Airports under AOT's Supervision

## Lanna International Airport

Construction Project



Handling Capacity of

**21 Million Pax / Year**

41 flights / hour

\*Investment Budget of **70,000** Million Baht

## Udonthani International Airport

Handling Capacity of

3.4 → **6.5 Million Pax / Year**

20 flights / hour

\*Investment Budget of **3,500** Million Baht

## Buriram International Airport

Handling Capacity of

0.78 → **2.8 Million Pax / Year**

25 flights / hour

\*Investment Budget of **460** Million Baht

## Krabi International Airport

Handling Capacity of

4 → **12 Million Pax / Year**

31 flights / hour

\*Investment Budget of **6,400** Million Baht

## Andaman International Airport

Construction Project



Handling Capacity of

**22.5 Million Pax / Year**

43 flights / hour

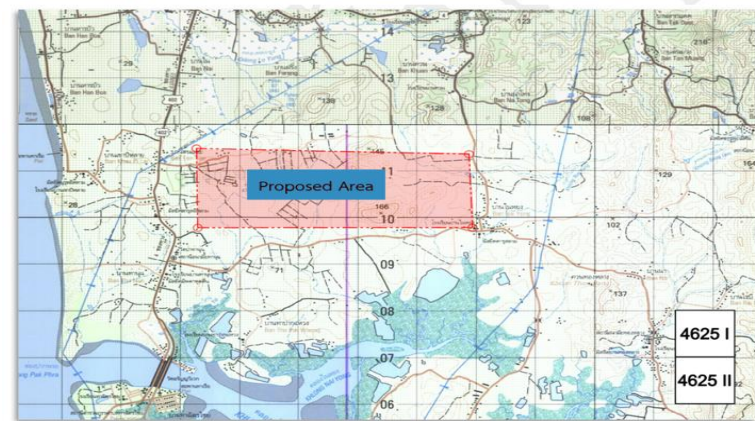
\*Investment Budget of **80,000** million Baht



■ New Airports  
■ Transferred Airports

# Andaman International Airport Construction Project

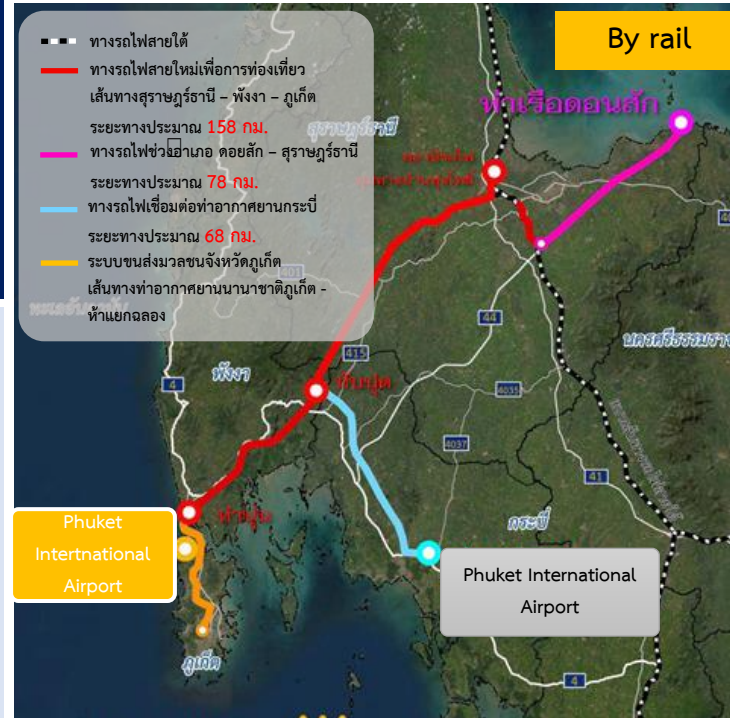
## Transportation



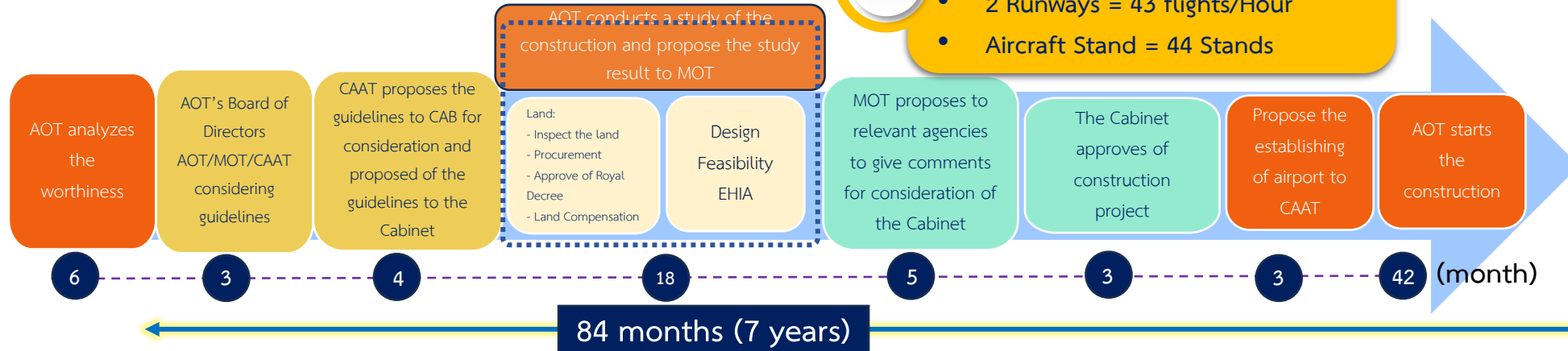
### Location

Kok-Kloy and Lor Yung Subdistrict,  
Takua Thung District,  
Phang-Nga Province

Picture 1: Proposed Area for Phang Nga Airport Development Project



## Establishing Process of Andaman International Airport



- Land = 7,300 Rai
- Terminal = 22.5 Million Pax/Year
- 2 Runways = 43 flights/Hour
- Aircraft Stand = 44 Stands

Investment budget of 80,000 million Baht

- Airside work 28,000 million Baht
- Terminal building work 25,000 million Baht
- Support and utility work 15,000 million Baht
- Price reserve and tax 12,000 million Baht

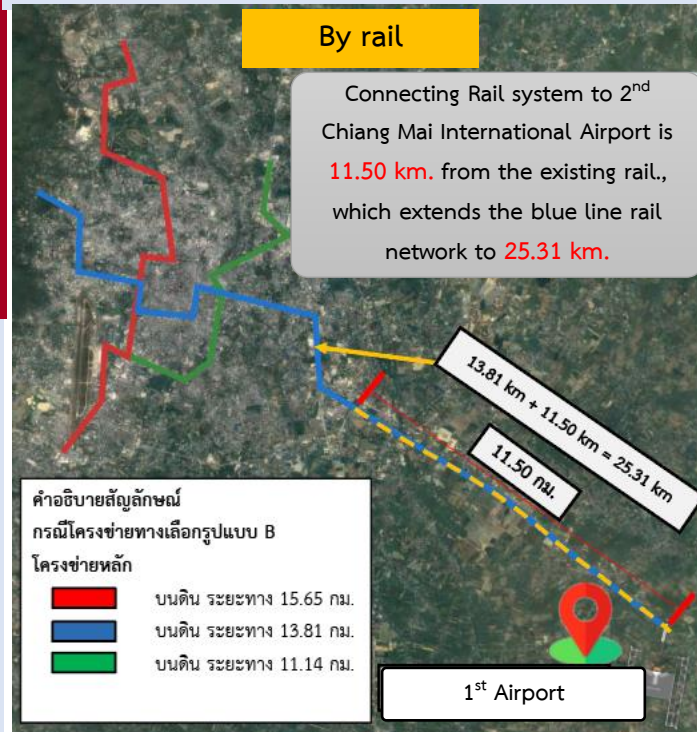


# Lanna International Airport Construction Project

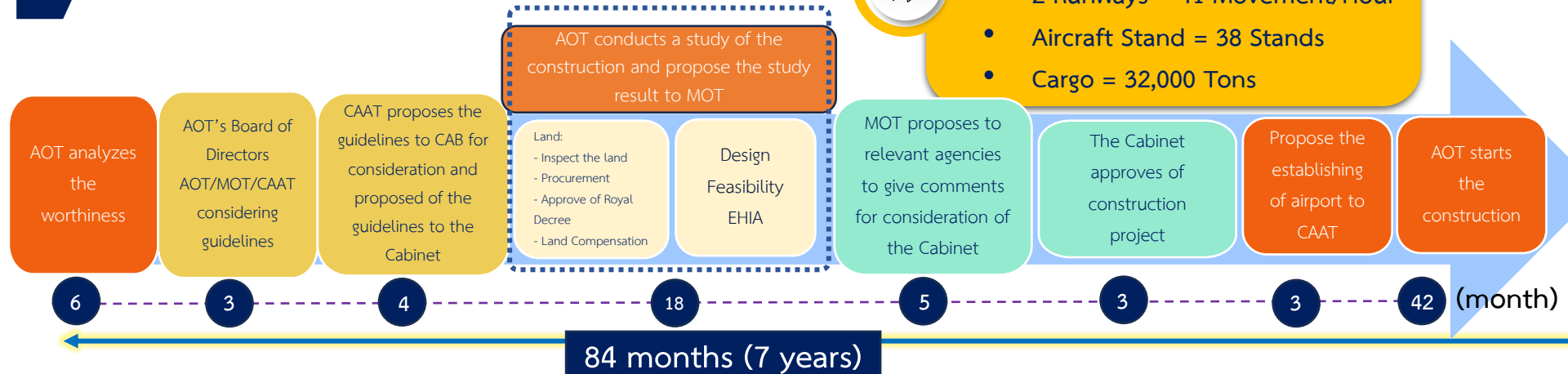


**Location**  
 San Kum Phaeng District  
 Chiang Mai Province and  
 Ban Ti District  
 Lamphun Province

## การเดินทาง



## Establishing Process of Lanna International Airport



- Land = 8,050 Rai
- Terminal = 24 Million Pax/Year
- 2 Runways = 41 Movement/Hour
- Aircraft Stand = 38 Stands
- Cargo = 32,000 Tons

**Investment budget of 70,000 million Baht**

- Airside work 25,000 million Baht
- Terminal building work 22,000 million Baht
- Support and utility work 12,500 million Baht
- Price reserve and tax 10,500 million Baht

# Udonthani International Airport Development Project

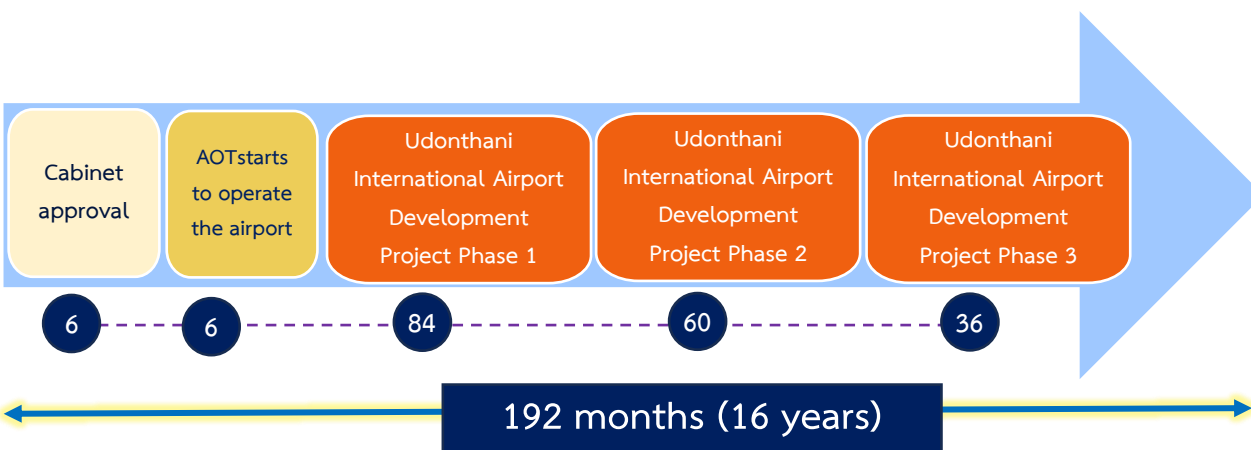


## Location

Mak Kaeng  
Sub-district,  
Mueang District,  
Udonthani  
Province



## Process of Taking Over Udonthani International Airport

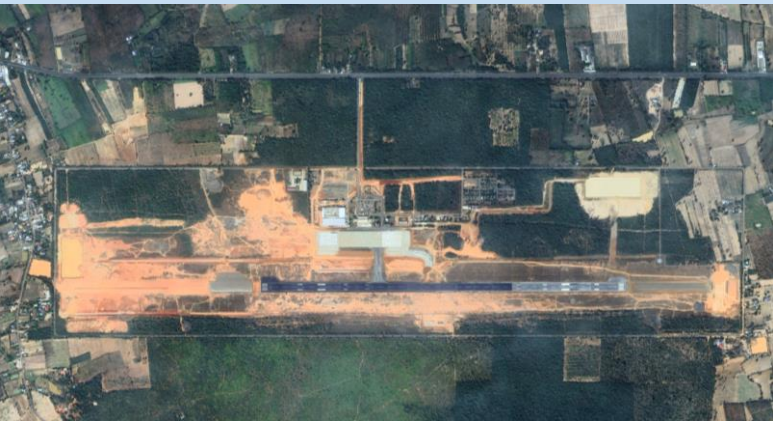


- Terminal = 6.5 Million Pax/Year
- 1 Runway = 20 flights/Hour
- Aircraft Stand = 13 Stands

- Investment budget of 3,500 million Baht
- Development Project Phase 1  
Renovating terminal buildings 1 and 2  
1,320 million Baht
  - Development Project Phase 2  
Constructing new terminal building  
1,580 million Baht
  - Development project Phase 3  
Installing equipment and facilities  
600 million Baht



# Buriram International Airport Development Project



## Location

Ron Thong  
Sub-district,  
Sa-tuek District,  
Buriram Province



## Process of Taking Over Buriram International Airport

Cabinet  
approval

AOT starts to  
operate the airport

Buriram International Airport  
Development Project Phase 1

6

6

36

48 months (4 years)



- Terminal = 2.8 Million Pax/Year
- 1 Runway = 25 flights/Hour
- Aircraft Stand = 11 Stands



Investment budget of  
460 Million Baht

- Installing Smart Airport System

# Krabi International Airport Development Project



## Location

Nua Khlong  
Sub-district  
Nua Khlong District  
and Mueang District  
Krabi Province



## Process of Taking Over Krabi International Airport

Cabinet approval

AOT starts to operate the airport

Krabi International Airport Development Project, Phase 2

6

6

60

72 Months (6 years)



- Terminal = 12 Million Pax/Year
- 1 Runways = 31 flights/Hour
- Aircraft Stand = 40 Stands



Investment budget of 2,700 million Baht

- Design and procurement work, and terminal building construction totalling 2,700 million Baht





# The New Scenes of Airport.

(Airports of the Future:  
The Development of Airport  
Systems)





# The New Scenes of Airport

01

## Innovation

Real time Passenger Tracking, Simulation Programme ,  
Airport collaborative decision-making : A-CDM  
Artificial Intelligence : AI



02

## Technology

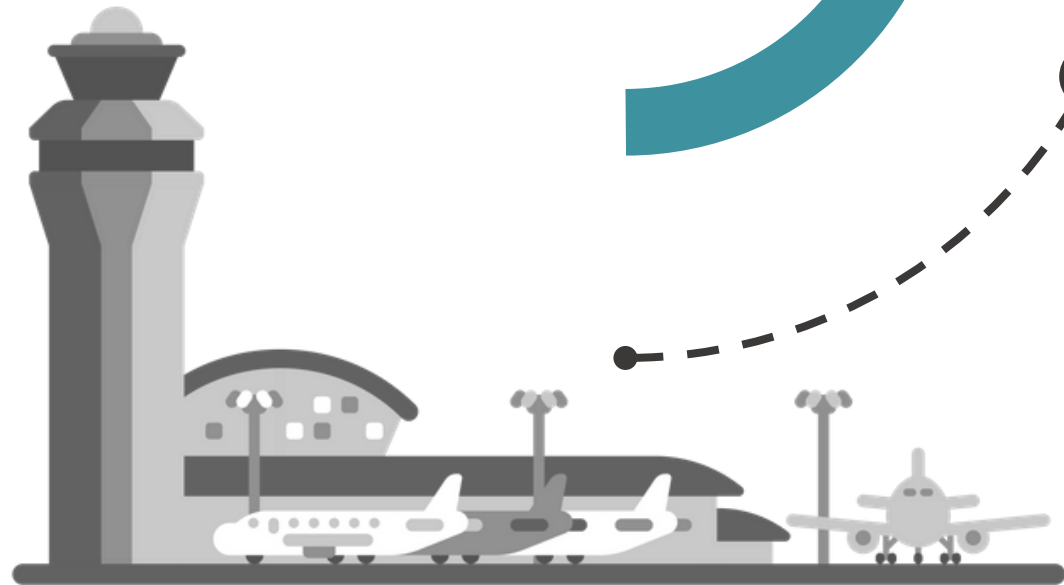
Common Use Self-Service : CUSS,  
Automated People Mover : APM,  
Auto Tray System : ATS, Passenger Validation System : PVS



03

## Green & Sustainability

Social Aspect  
Environmental Aspect  
Economic Aspect

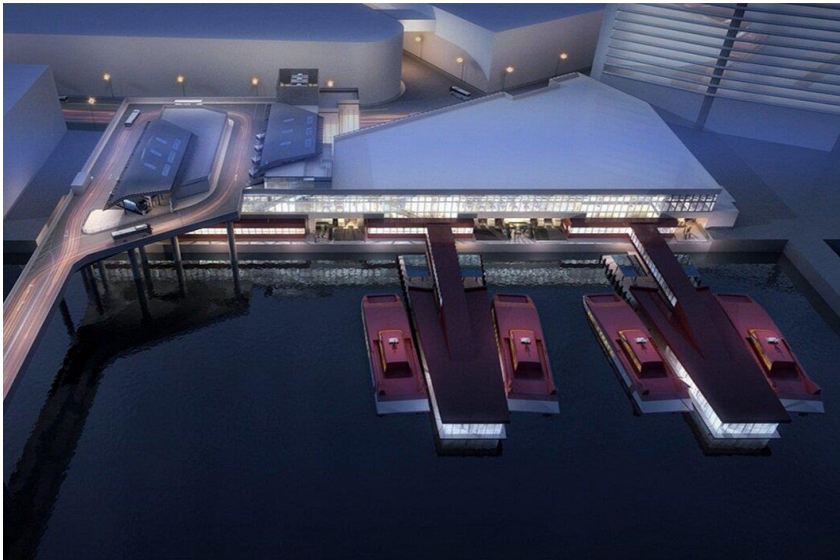


INNOVATION

# Seaplane & Ferry Terminal

Passenger Experience

New Travel Trends



HONGKONG INTERNATIONAL AIRPORT SKY PIER



TAIPA FERRY TERMINAL : MACAU



SIAM SEAPLANE : THAILAND





# Capabilities of the CAST Terminal Simulation Program

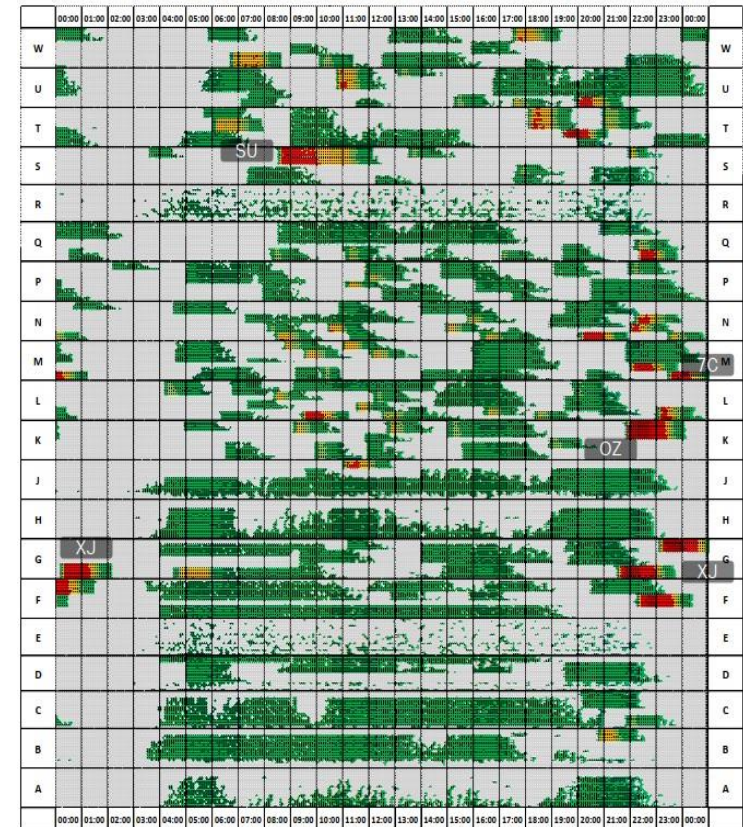
“

The simulation helps avoid real-life trials that are usually associated with significant capital and operational expenditure

”



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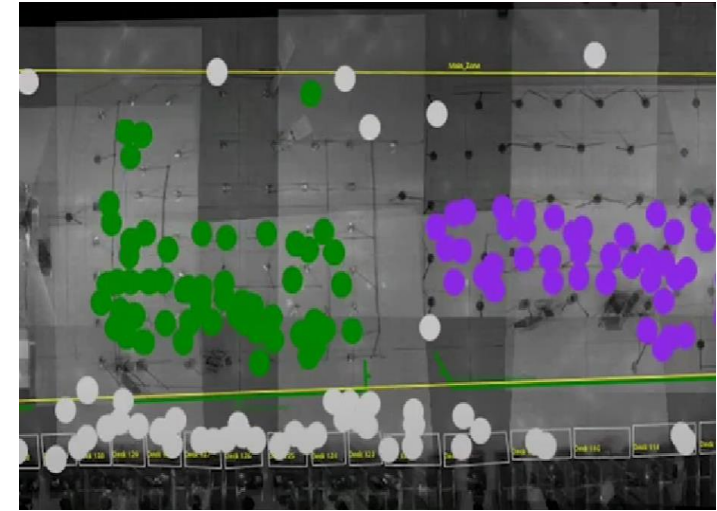
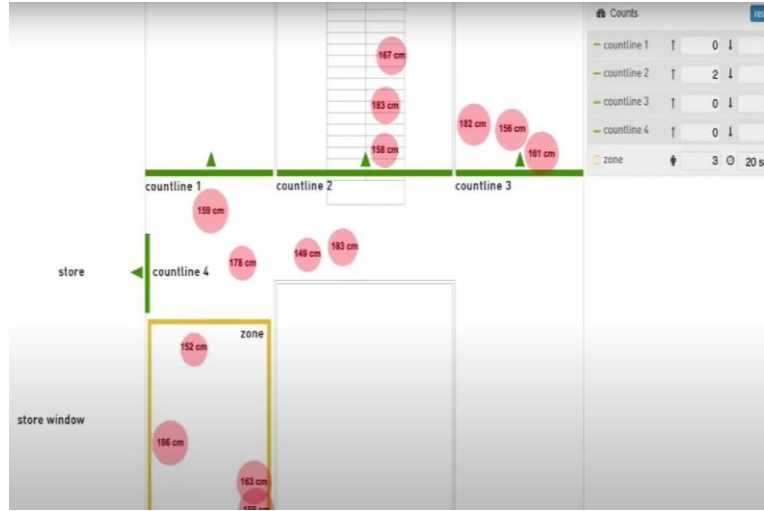




## Real-time Passenger Tracking and Counting System

Real – Time passenger Analysis and Tracking

“Optimize your processes, utilization of space and deployment of personnel”



# INNOVATION

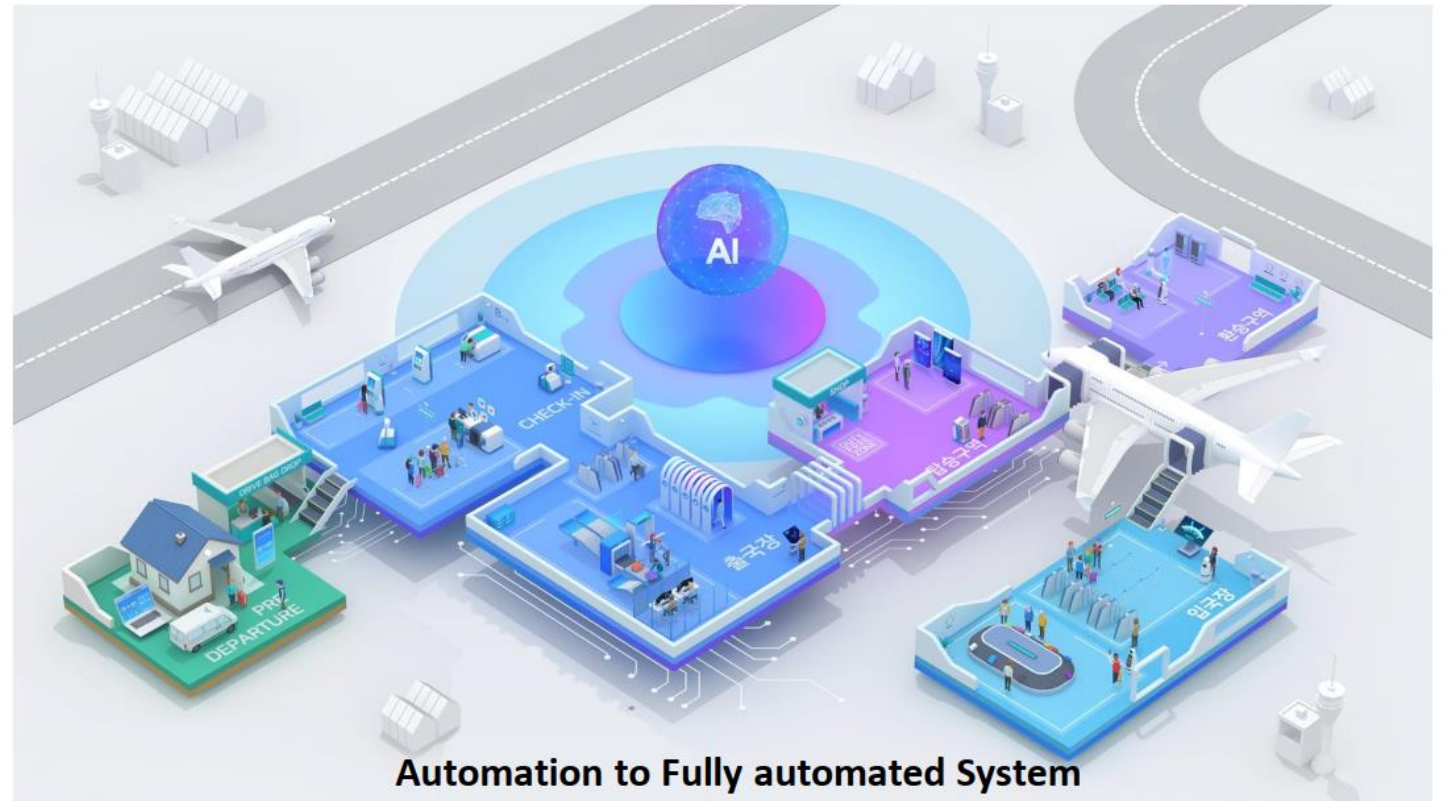
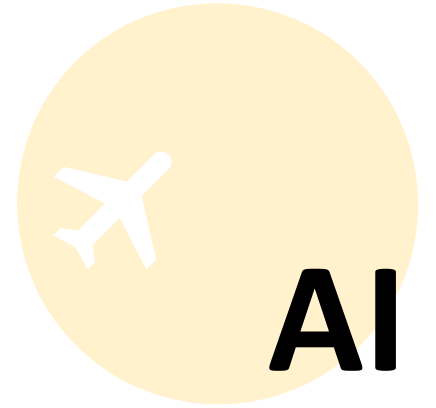


“

When Properly integrated with checkpoint systems, AI-based algorithms significantly improve threat detection

”

“  
Costs can be reduced and productivity increased through accurate and automated data  
”



Automation to Fully automated System



# TECHNOLOGY



Auto Gate

Coordinating with Immigration Office



Self Check In

Coordinating with airlines and related persons



Biometric

Coordinating with airlines and related persons



Tub Base Technology



Automated People Mover (APM)



Sawasdee By AOT  
Application





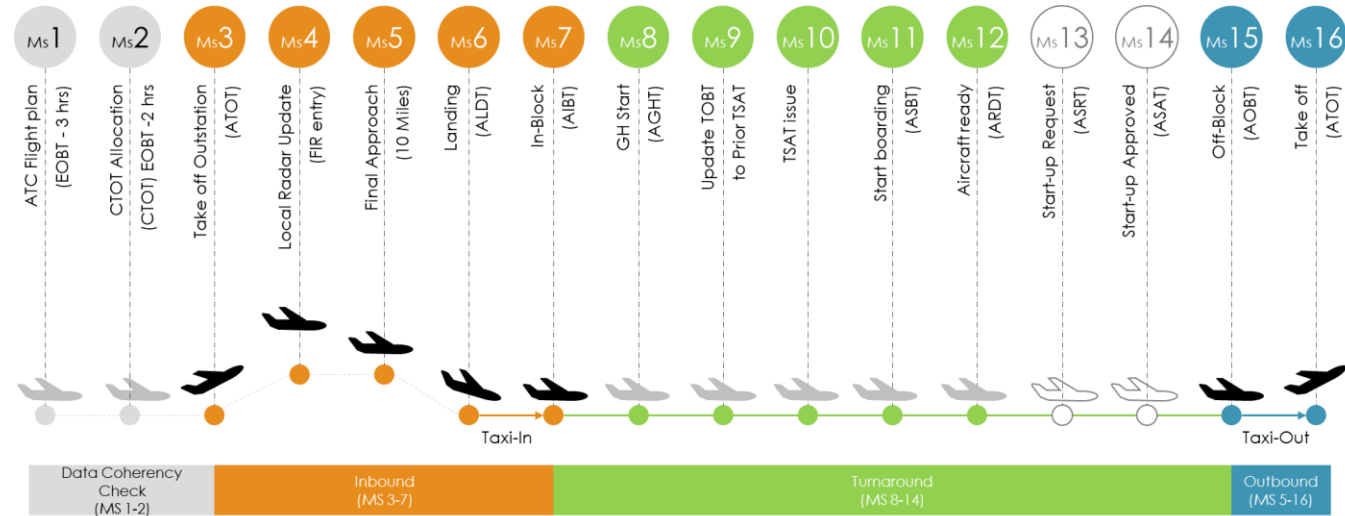
Implementation Concept

# A-CDM

Airport Collaborative Decision Making

## Objective

- Predictability
- On-time Performance
- Use of infrastructure
- Apron and Taxiway Congestion



หลักการและแนวทางในการดำเนินการ A-CDM ของ ทสภ. และ ทดม.

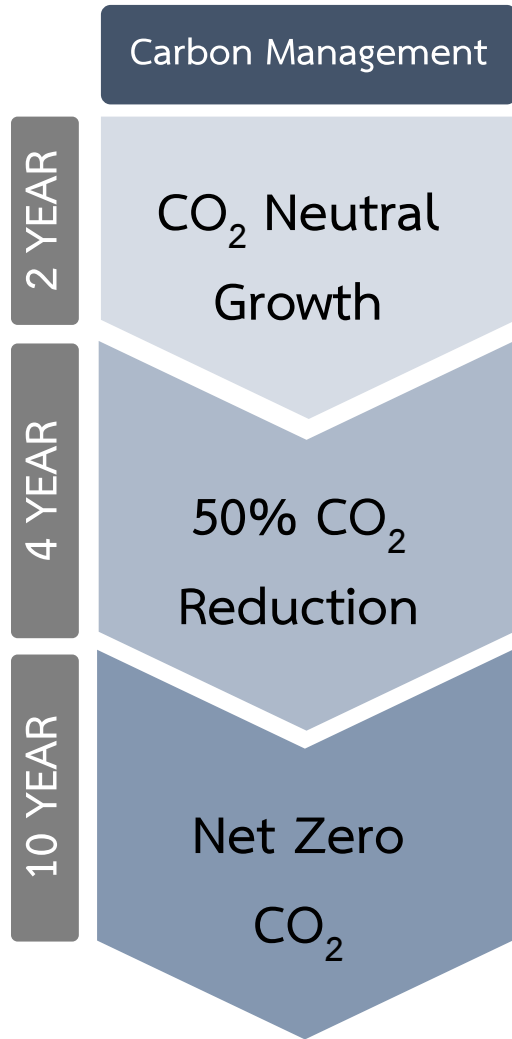
# TECHNOLOGY

“

For every 10 minutes  
passengers spend in  
the security line,  
their spending in the  
terminal decreases by 30%

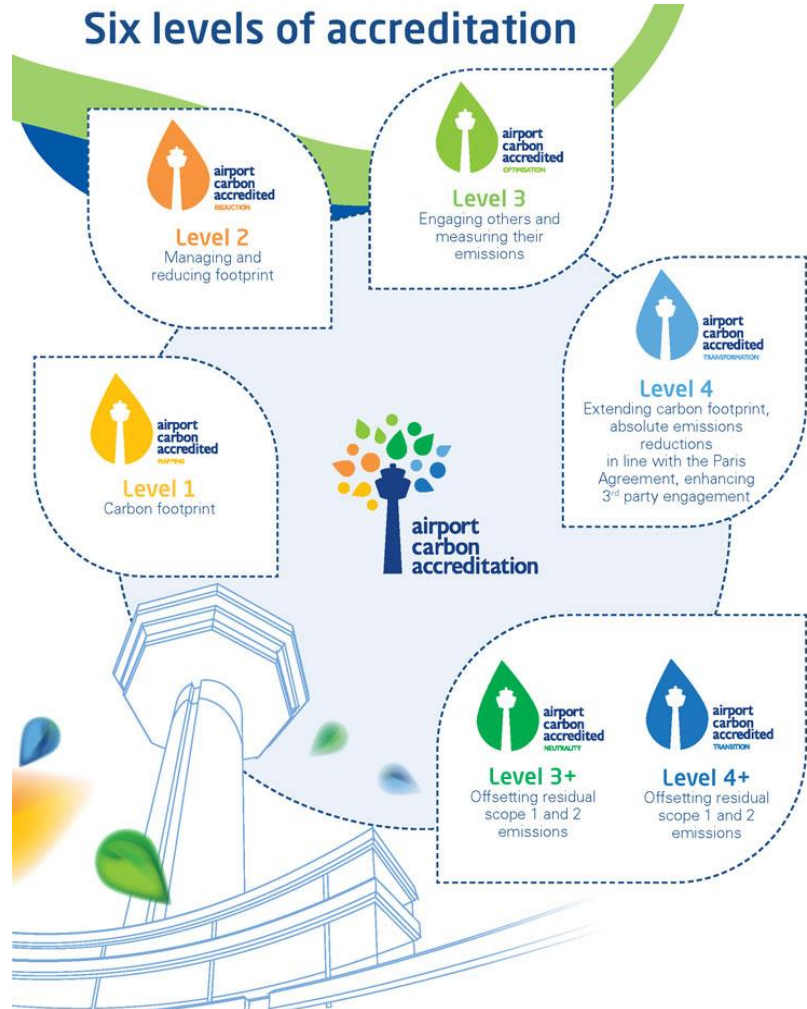
”





# Carbon Management

## Airport Carbon Accreditation Program (ACA)



ACA consists of 6 levels. BKK, DMK, CNX, CEI and HYD are currently accredited with Level 3 Optimization. HKT is currently accredited with Level 1 Mapping.



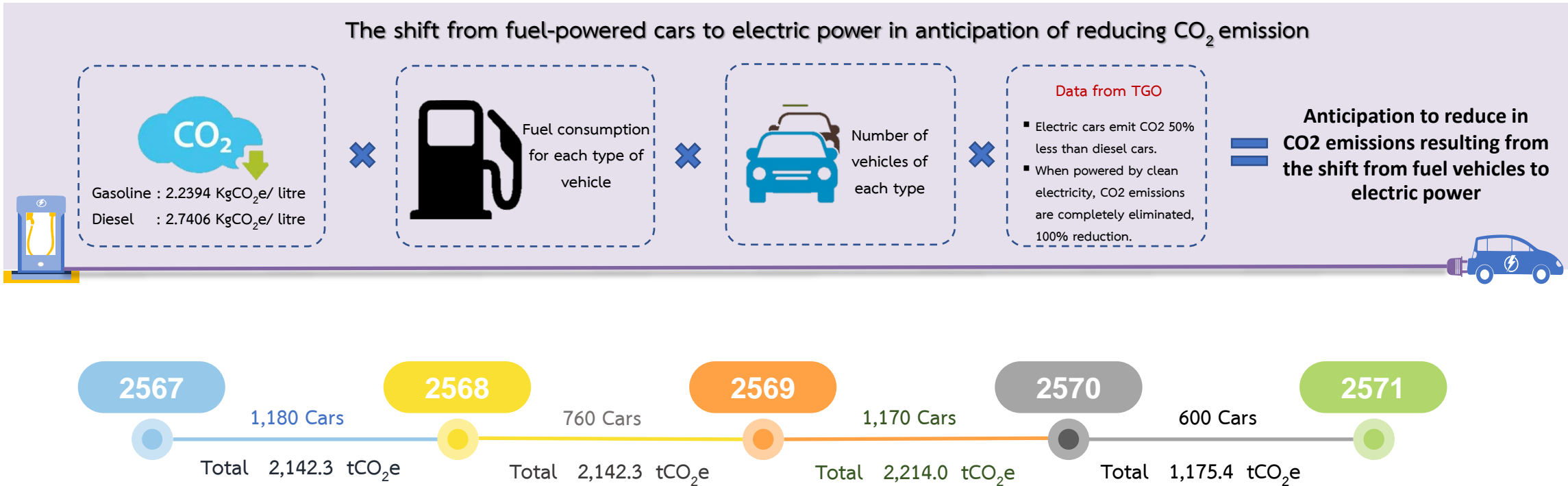
- SCOPE 1**
  - Stationary combustion (ex : generators etc.)
  - Mobile combustion (ex : company owned cars etc.)
  - Activities (ex : firefighting exercises etc.)
  - Process emissions (wastewater treatment)
- SCOPE 2**
  - Electricity
  - Cooling water
- SCOPE 3**
  - LTO
  - APU
  - GSE
  - Surface access
  - Business travel



# AOT's Measures for Reducing Greenhouse Gas Emissions

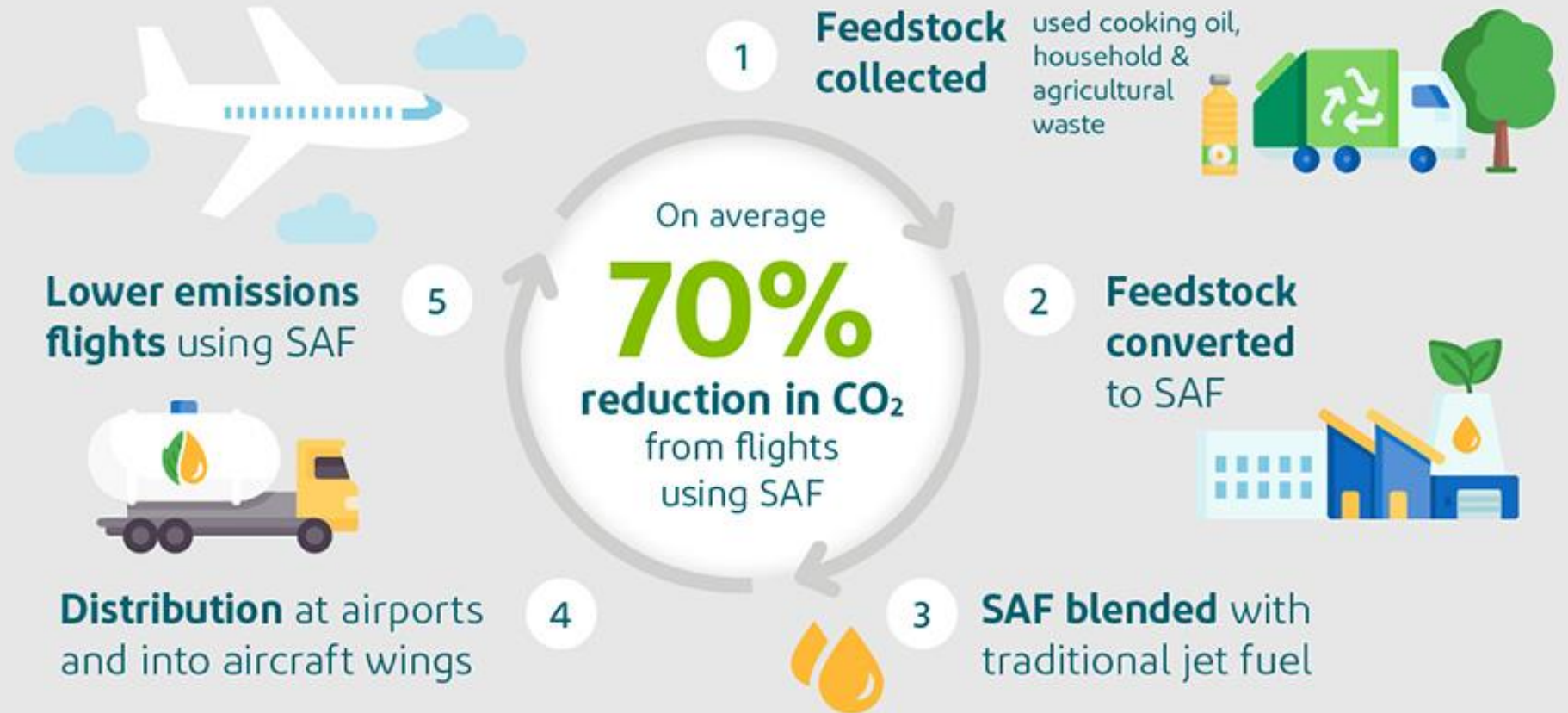
## Use of Electric Cars

- At present, most of the AOT's cars are rental cars. When the rental contract expires in each year, AOT will consider transitioning from conventional fuel cars to electric cars.



## Sustainable Aviation Fuel : SAF

### How Sustainable Aviation Fuel works



# SUSTAINABILITY



## Energy Management

2 YEAR

20% of electrical power come from renewables Energy

4 YEAR

50% of electrical power come from renewables Energy

10 YEAR

100% of electrical power come from renewables Energy

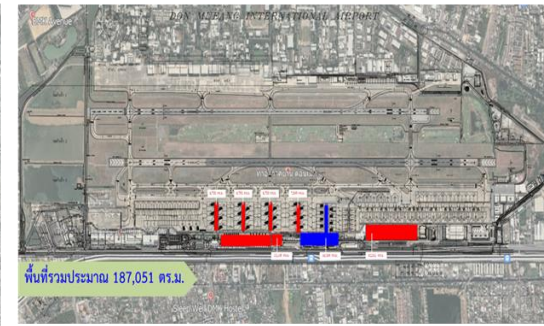
# Energy Management

Installing Solar Cells helps utilize renewable energy, reduce carbon dioxide emissions and cut down on electrical power costs.

Suvarnabhumi Airport



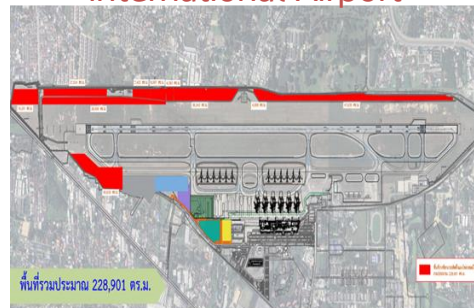
Don Mueang International Airport



Phuket International Airport



Chiangmai International Airport



Mae Fah Luang Chiang Rai International Airport



Hat Yai International Airport



- Current solar rooftop installation areas
- Suitable Rooftop Areas - Identify suitable areas for solar cell panel installation (taking into account the structural weight capacity).
- Potential Area - Identify viable locations for solar cell panel installation and determine the optimal area for the installation of solar panels.



# SUSTAINABILITY



## Energy Management

2 YEAR

20% of electrical power come from renewables Energy

4 YEAR

50% of electrical power come from renewables Energy

10 YEAR

100% of electrical power come from renewables Energy

## Energy Management



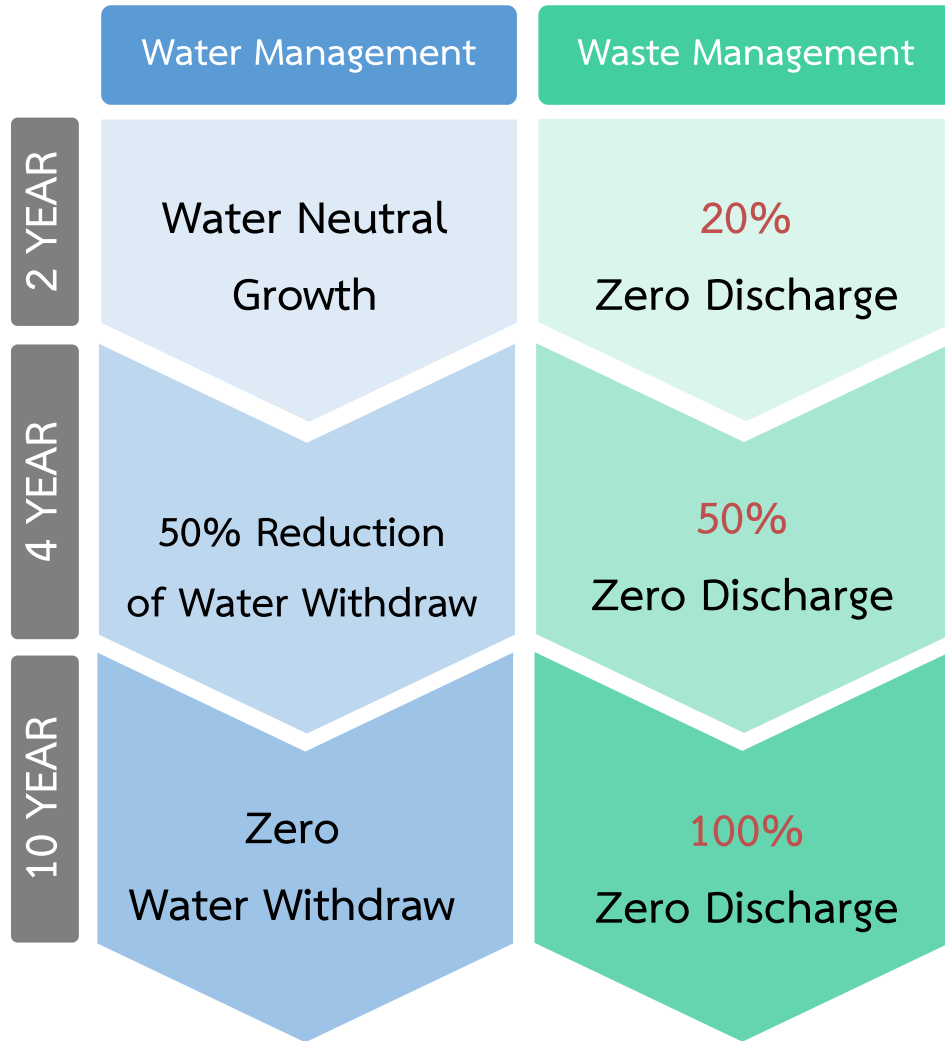
### The Change of vehicles and machines in all AOT 6 airports from fuel vehicles to electric vehicles

According to the government's policy to decrease reliance on fuel, AOT is implementing a comprehensive policy to transition vehicles and machines used in the airports to electric alternatives. This ambitious policy encompasses a total of 3,400 units, promising a substantial reduction in fuel consumption by an estimated 10 million liters or approximately 28,360 tons of carbon dioxide emission annually. Beyond the environmental impact, this initiative is designed to enhance the overall airport experience for passengers by eliminating air pollution from conventional vehicles at the Bus Gate area.

# SUSTAINABILITY



## Water and Waste Management





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# THANK YOU

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