

# Capacity Expansion Program for Tokyo Metropolitan Airports

---

Japan Civil Aviation Bureau  
November 2018

## Current annual slots at metropolitan airports

### Haneda Airport

Annual slots: 447,000 (Domestic: 357,000, International: 90,000)

### Narita Airport

Annual slots: 300,000

## Further functional enhancement of metropolitan airports

### Policies to be developed on future functional enhancement at metropolitan airports

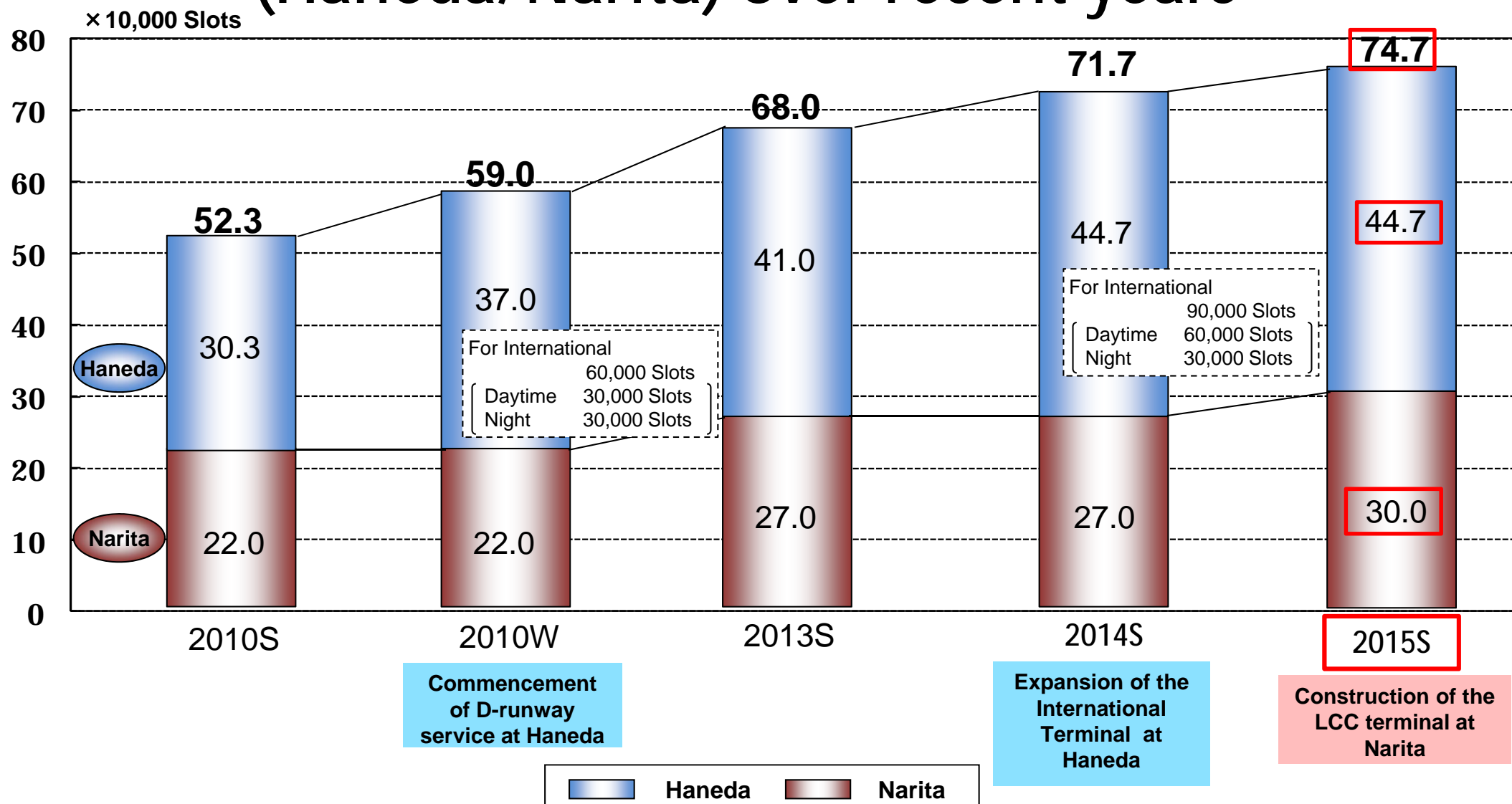
based on the interim report of Subcommittee for Technical Review to Enhance Functions of the Metropolitan Airports

|                | ■ Possible technical measures to be implemented by the 2020 Tokyo Olympics and Paralympics  | ■ Possible technical measures to be implemented after the 2020 Tokyo Olympics and Paralympics  |
|----------------|---|--|
| Haneda Airport | <ul style="list-style-type: none"> <li>• Re-examination of runway capacity</li> <li>• Revision of runway operation and flight routes</li> </ul> <p>⇒ + approx. 40k per year</p> <p><b>Total: + approx. 40K [+ approx. 50 per day]</b></p>   | <ul style="list-style-type: none"> <li>• Building a new runway</li> </ul>  |
| Narita Airport | <ul style="list-style-type: none"> <li>• Upgrading ATC systems</li> <li>• Building high-speed exit taxiways</li> <li>• Relaxing restrictions of curfew</li> </ul> <p>⇒ + approx. 20K per year</p> <p>⇒ + approx. 20K per year</p> <p>⇒ + α per year</p> <p><b>Total: + approx. 40K + α [+ approx. 50 per day]</b></p> | <ul style="list-style-type: none"> <li>• Extending existing runways</li> <li>• Building a new runway</li> </ul> <p>⇒ + approx. 160K per year</p> |
|                | <p><b>Total: approx. 830K slots</b><br/>(750K + approx. 80K per year) [+ approx. 100 per day]</p>   | <p><b>Total: approx. One million slots</b><br/>(approx. 830K + approx. 160K per year)<br/>[+ approx. 200 per day]</p>                            |

※Descriptions in red letters are the measures to achieve the goal of the tourism vision

# Capacity of the Metropolitan Airports

## Capacity expansion of the Metropolitan Airports (Haneda/Narita) over recent years



# Need for Further Functional Enhancement at Metropolitan Airports

## Take in the growth potential from the world including burgeoning Asian countries (Japan Revitalization Strategy, etc.)

### Increase of Foreign Tourists

2017

Travel consumption: 4 trillion 416.1 billion yen (QE)

Foreign tourists: 28 million 91 thousand (Provisional value)

Tourism vision to support the future of Japan

- Foreign tourists to Japan  
2020: 40 million 2030: 60 million
- Travel consumption by foreign tourists  
2020: 8 trillion yen 2030: 15 trillion yen

Increase of foreign tourists and expansion of travel consumption

### Enhancement of International Competitiveness of Metropolitan Industries and Cities

Promotion of establishment of enterprises

- Utilization of comprehensive special zones such as Asian HQ special zone
  - ➡ Invitation of 500 foreign enterprises or more including head quarters from Asian region (Tokyo)
- Study of national strategic special zones
  - ➡ Improvement of investment environment in Japan

Activating movement of people and goods

Revitalization of Japanese economy

### Regional Activation across the Country

Largest home and abroad aviation network in Japan

International routes 106 cities

+

Domestic routes 48 cities

Activating cross-border movement of people and goods

Spread of the overseas growth potential to local regions

Smooth and successful holding of 2020 Tokyo Olympics and Paralympics

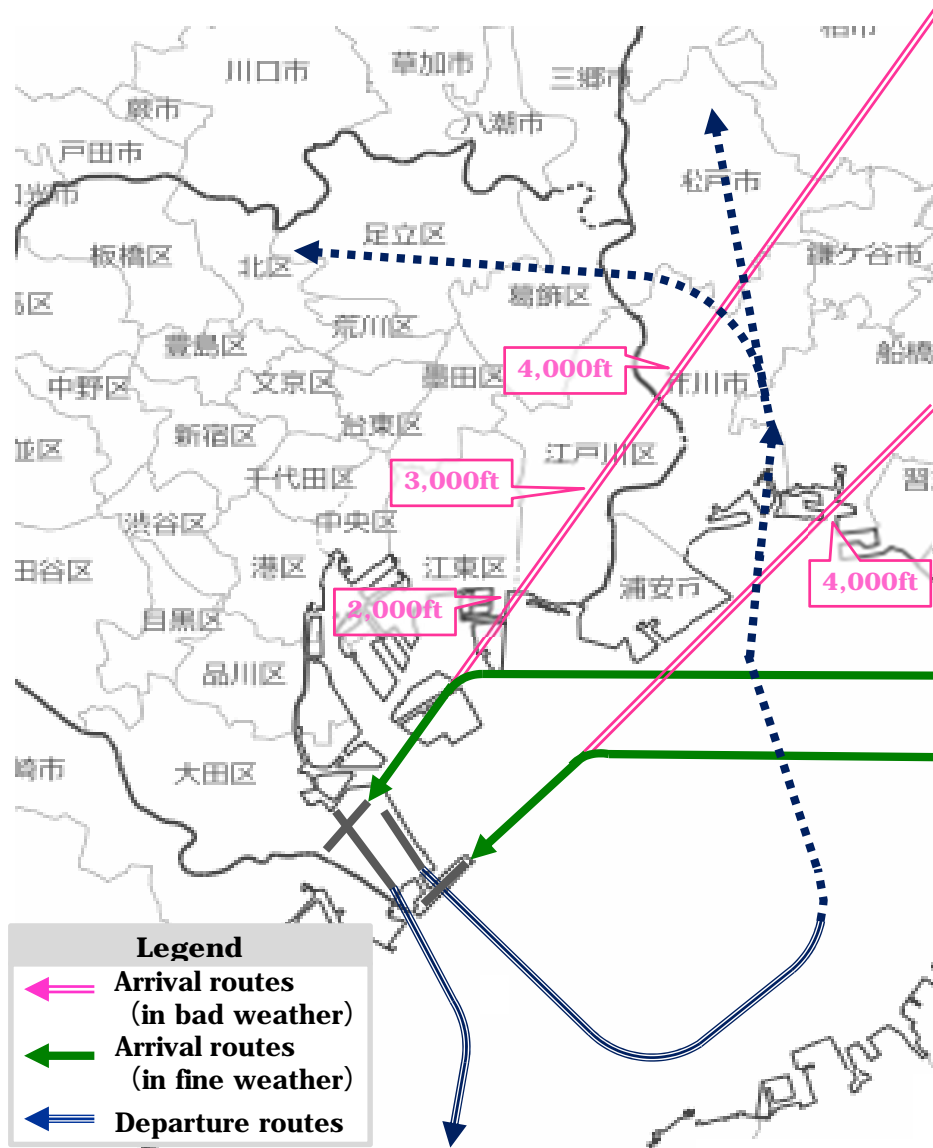
**Need for further functional enhancement of metropolitan airports**

# Haneda Airport Possible Measures by 2020

---

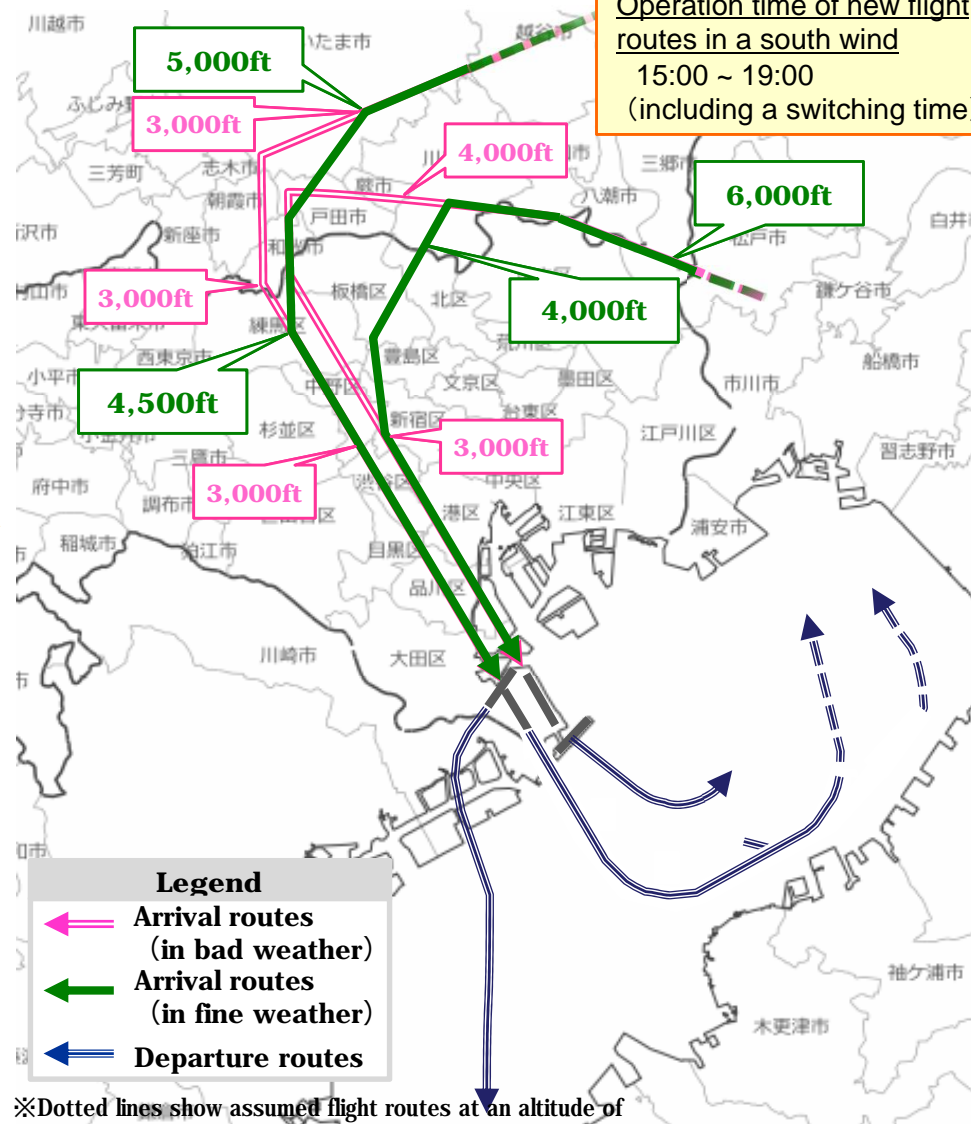
# Change of Runway Operation & Flight Routes (South-wind operation)

## Current Flight Routes



※Dotted lines show assumed flight routes at an altitude of approx. 6,000ft or more

## New Flight Routes



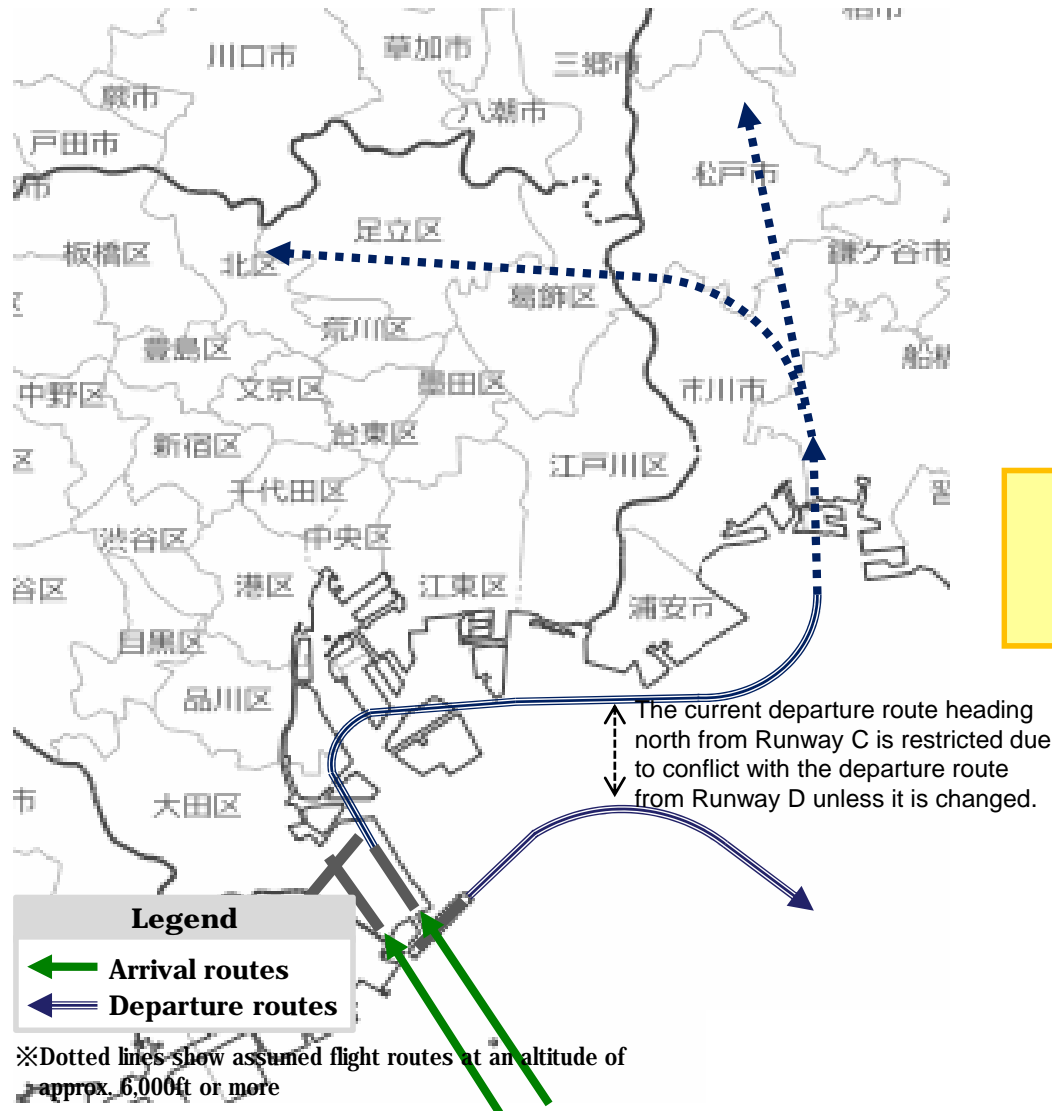
※Dotted lines show assumed flight routes at an altitude of approx. 6,000ft or more

Percentage of a south wind operation  
About 40% (Annual average)

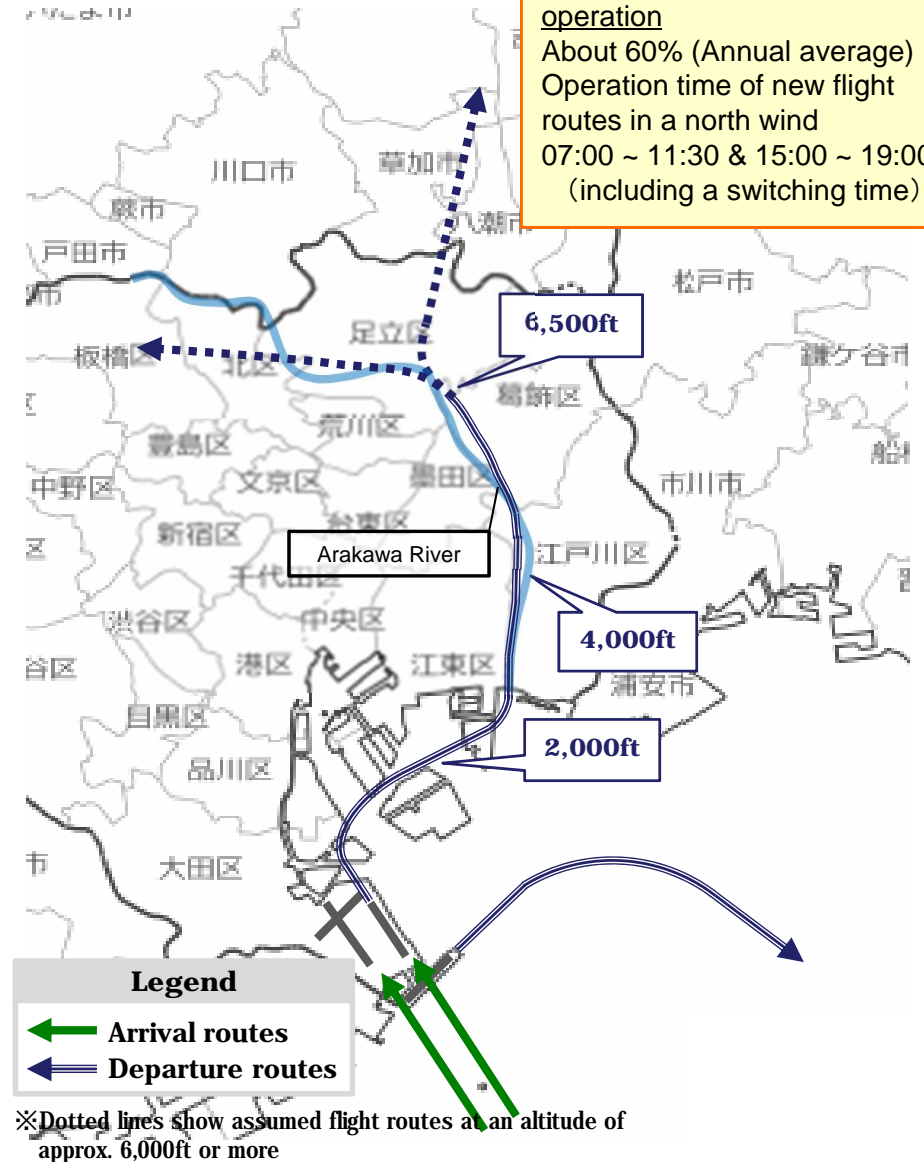
Operation time of new flight routes in a south wind  
15:00 ~ 19:00  
(including a switching time)

# Change of Runway Operation & Flight Routes (North-wind operation)

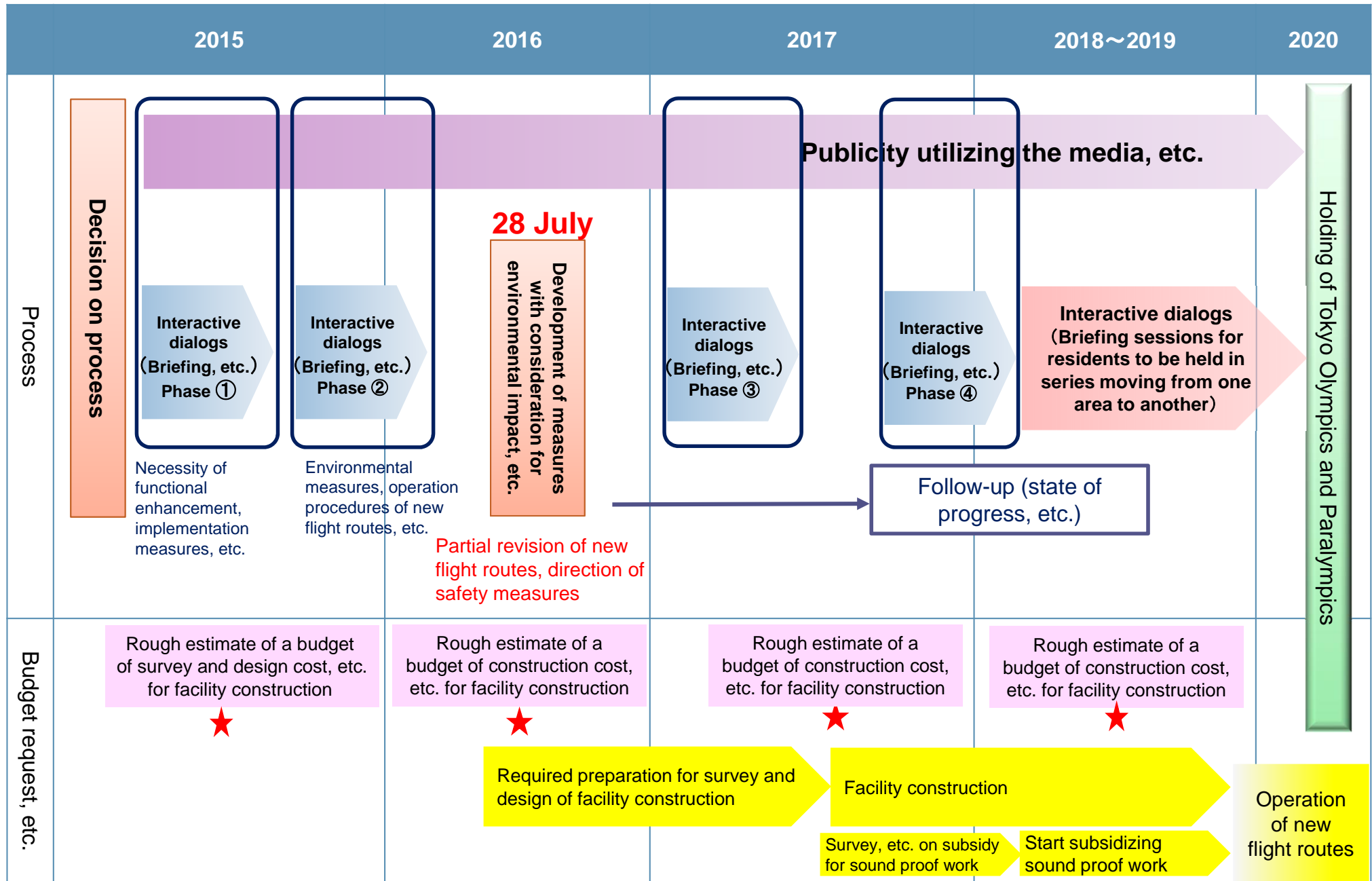
## Current Flight Routes



## New Flight Routes



# Process toward Functional Enhancement at Haneda Airport





# Narita Airport Possible Measures by 2020

---

# Upgrading ATC Systems and Building High-Speed Exit Taxiways at Narita

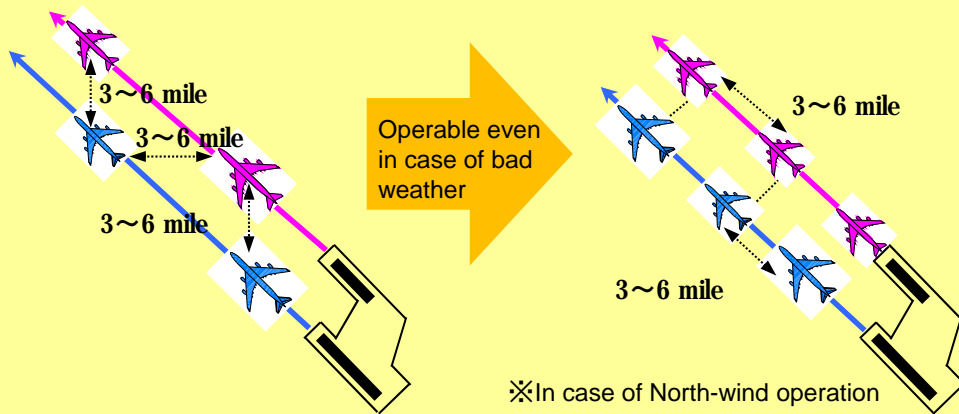
## Upgrading ATC systems

- Simultaneous parallel takeoff and landing system was introduced at Narita Airport in October 2011.
- By upgrading ATC systems (through introduction of WAM\*), air traffic controllers can locate aircraft precisely under the condition of poor visibility due to bad weather, thereby enabling simultaneous parallel takeoff and landing with an independent operation of two runways and as a result, maximum hourly value of 68 movements was achieved.
- Implemented from the 2015 summer schedule (29 March 2015)

### Image of simultaneous takeoff and landing

【In case of non-simultaneous operation】

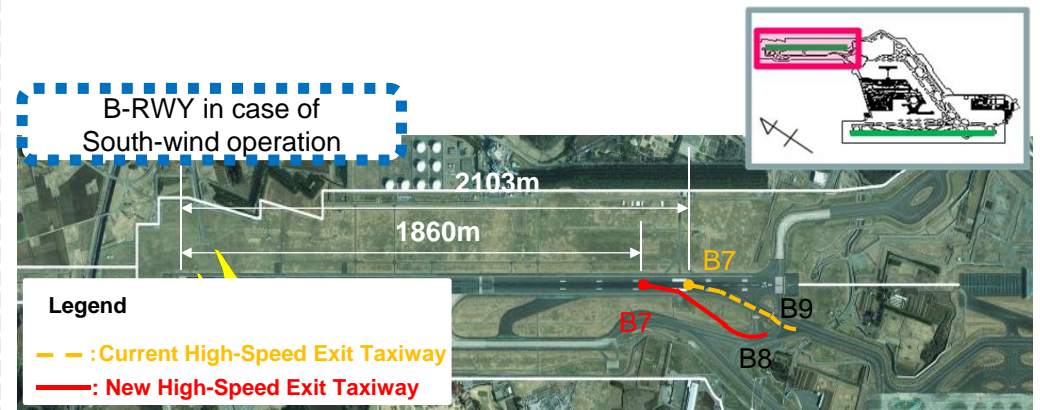
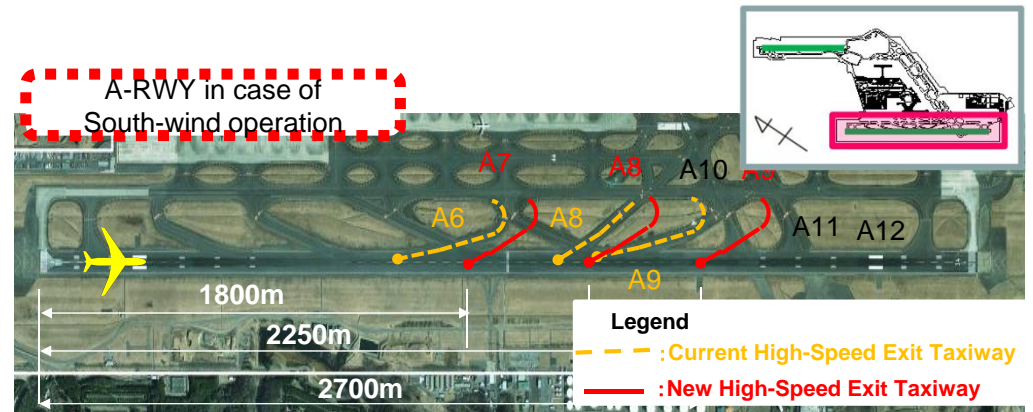
【In case of simultaneous operation】



※ Wide Area Multilateration : Monitoring device required for ATC upgrade

## Building High-Speed Exit Taxiways

By building high-speed exit taxiways at appropriate positions of Runways A and B respectively, hourly value is expected to increase by approx. 2.



Quadripartite Council on Narita Airport  
(composed of the government, Chiba Pref., 9 municipalities around the airport, and the airport company)

- 17 Sept. 2015 Started to study on the third runway
- 27 Sept. 2016 Proposal including the RWY location, coverage of airport and alleviation of restriction of night time flights
- 12 June 2017 Resubmit proposal to review the plan to alleviate night flight restriction

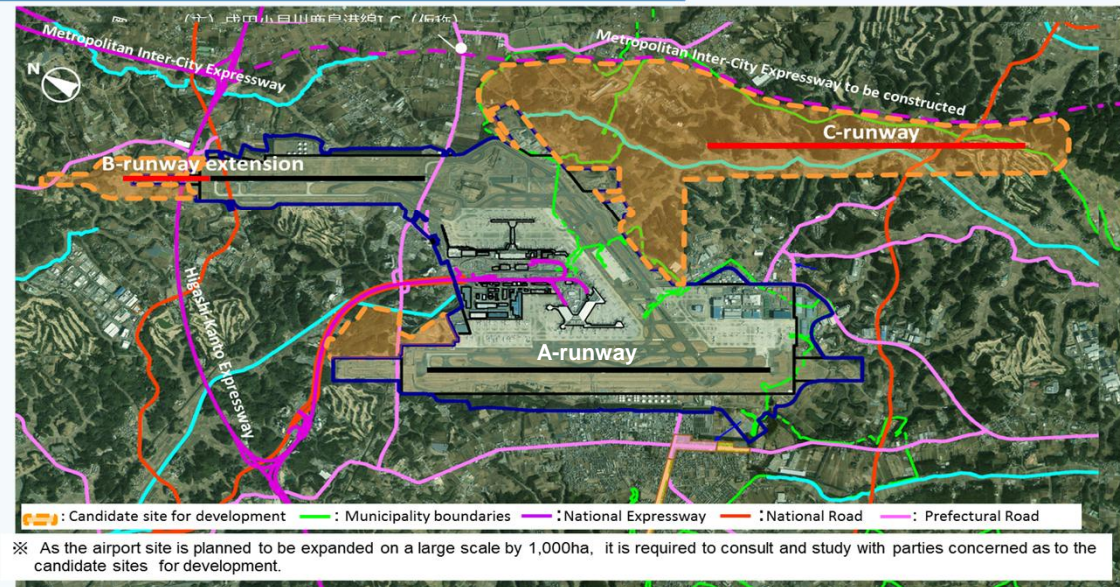
- July 2017 ~ Holding of briefing sessions for local residents
- 31 Jan. 2018 Request from the local municipalities to the Minister
- 19 Feb. 2018 Reply to the requests from the Liaison Council of Narita Airport area municipalities

13 Mar. 2018 Final agreement at the quadripartite council

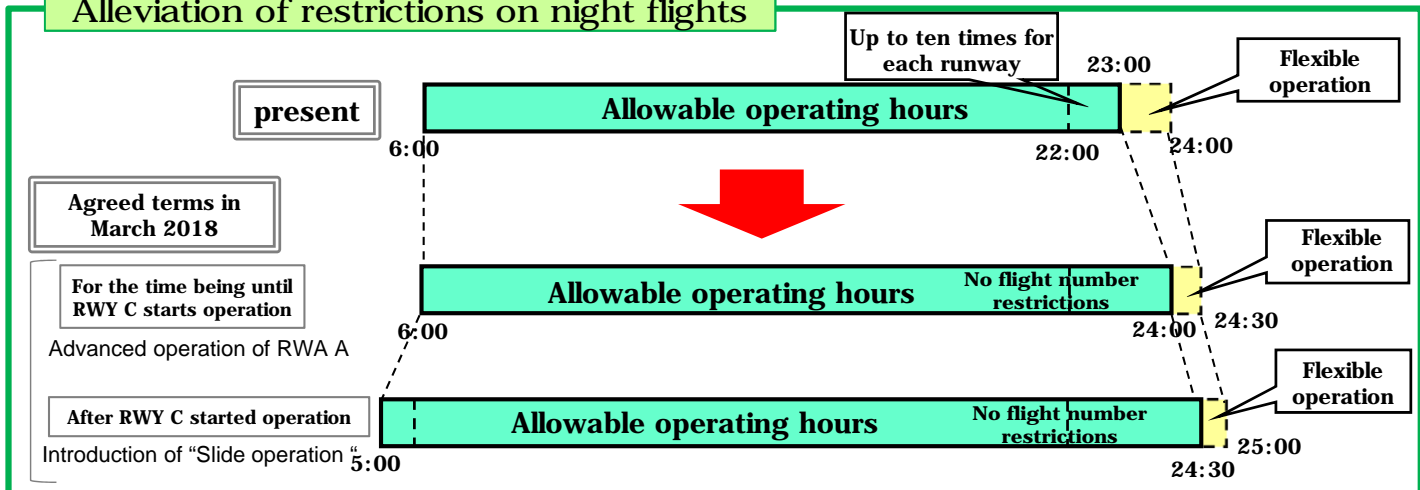
※Liaison Council of Narita Airport area municipalities : Council composed of 9 municipalities around Narita Airport  
 ※Quadripartite Council : Council composed of the government, Chiba Prefecture, 9 municipalities around the airport and the airport company

## [Main terms of agreement]

### Construction of RWY C and extension of RWY B



### Alleviation of restrictions on night flights



→ Airport capacity will be expanded from 0.3 million to **half million** by further functional enhancement