SECOND ICAO NEXT GENERATION OF AVIATION PROFESSIONALS GLOBAL SUMMIT

Roles and Responsibilities of Universities in Setting up a National NGAP Strategy

Shenzhen, China 13, December 2018



Contents

- Aviation in the R. O. Korea
- Pilot Demand
- **Strategies**
- **Conclusions**



- ROK's aviation industry has developed into the world's 7th thanks to the continuous nurturing of aviation industry
- Around 0.9% of Korea GDP
 Around 80,000 decent job creation



Airline/Airport

- (Airline) Total 88 airlines in operation
 (50 countries, 344 routes, 4,398 frequencies per week, as of 2017 Summer)
 9 national airlines in operation (44 countries, 231 routes, 2,795 frequencies)
- (Airport) 15 airports across the nation
 8 int'l airports (ICN, GMP, PUS, CJU, etc.), 7 domestic airports (KWJ, USN, RSU, etc.)

International Status

(Unit: million)

Category	PAX + CGO		PAX		CGO	
	Rank	Amount (ton-km)	Rank	Amount (pax-km)	Rank	Amount (ton-km)
international	6	22,756	12	123,284	4	11,435
international + domestic	7	23,611	15	131,890	4	11,485

Airports in Korea



√ 15 airports are in service

Group	Number	Airport
Hub	1	Incheon
Regional base	6	Jeju, Gimpo, Gimhae, Daegu, Cheongju, Muan
General	8	Yangyang, Wonju, Pohang, Ulsan, Gunsan, Gwangju, Yeosu, Sacheon

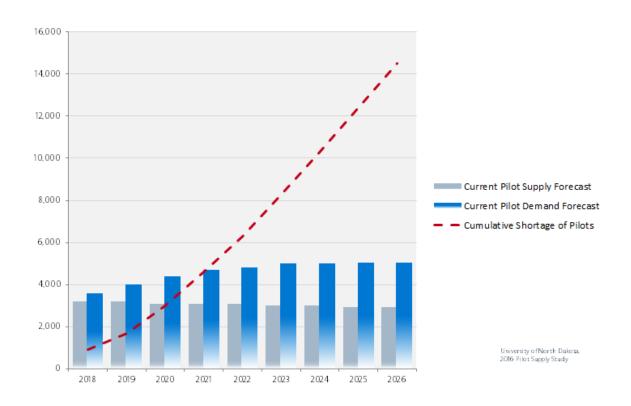
√ 4 airports are in planning

Airport	Cost (Billion \$)	Object
Jeju 2 nd	4.3	1 RWY(3,200m), Terminal(25Mpax), Access Road
Gimhae	5.3	3 rd RWY(3,200m), Terminal(28Mpax), Access Road/Rail
Ulleung	0.51	1 RWY(1,200m), Terminal, Access Road
Heuksan	0.16	1 RWY(1,200m), Terminal, Access Road



Pilot Demand is Critical Due to

- Fleet Growth
- Pilot Retirement and Attrition



Pilot Demand

Pilot Shortage

Until 2036

World Wide : 330,000

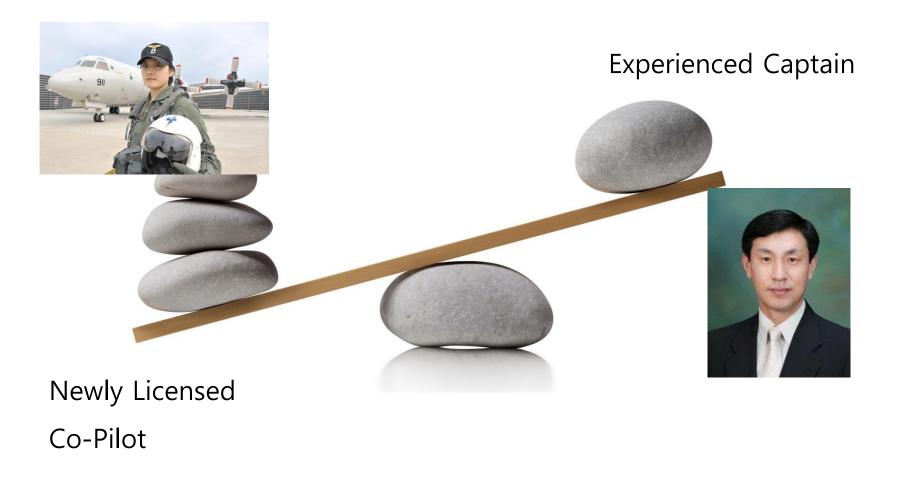
Asia Pacific : 220,000



In Korea,

Every Year about 600 Pilot Shortage

However we have imbalance in Pilot Supply





- Pilot demand should be precisely analyzed by Universities.
- Standard pilot training program should be developed
- Cooperation between Government, Industry and Academia should be enhanced
- ➤ Data-driven evaluation and maintenance of training program should be evolved.

- Change management concept can be incorporated into training program.
- Safety Management System should be part of training program
- Administrational and financial assistance can enhance training quality.

- Professional Pilot Program Model
- MOU between Airlines and Universities
- ➤ Hire first and Train later
- ➤ Pilot Aptitude Test
- Aviation Internship program
- ➤ Share Data and Information among Institutions
- Encourage Best Practices in pilot training



- > Asia Pacific and Korea need more Pilots
- > However training pilot takes time
- There are imbalance in experienced captain newly licensed pilot
- Cooperation should be enhanced among stake holders
- Universities can contribute in pilot training area with some ICAO new strategies

