# Global Market Forecast & Wietnam Airlines Fleet Plan

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## People want and need to travel

**Linking families and friends** 

**Enabling tourism** 

**Ensuring connectivity** 

**Supporting economies** 

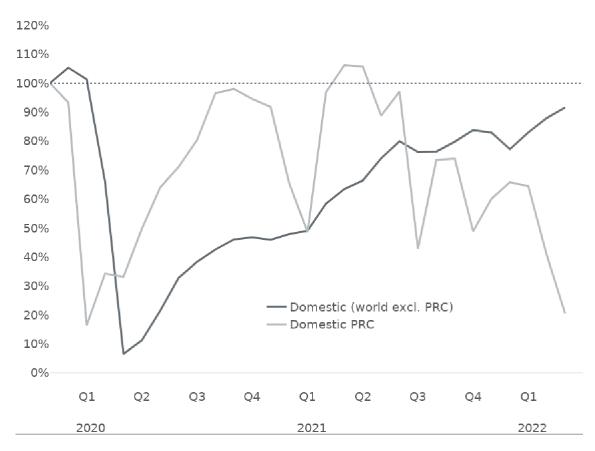
**Reconnecting cultures and societies** 



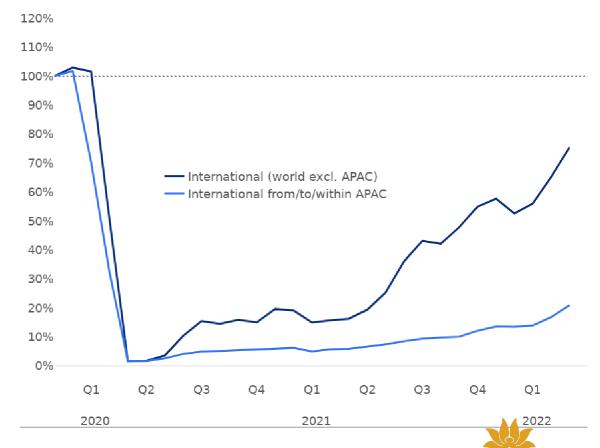
## Air traffic is recovering continuously with a few, notable exceptions

Source: OAG, FR24, SABRE, IATA, Airbus GMF

#### Domestic leg traffic RPK compared to 2019

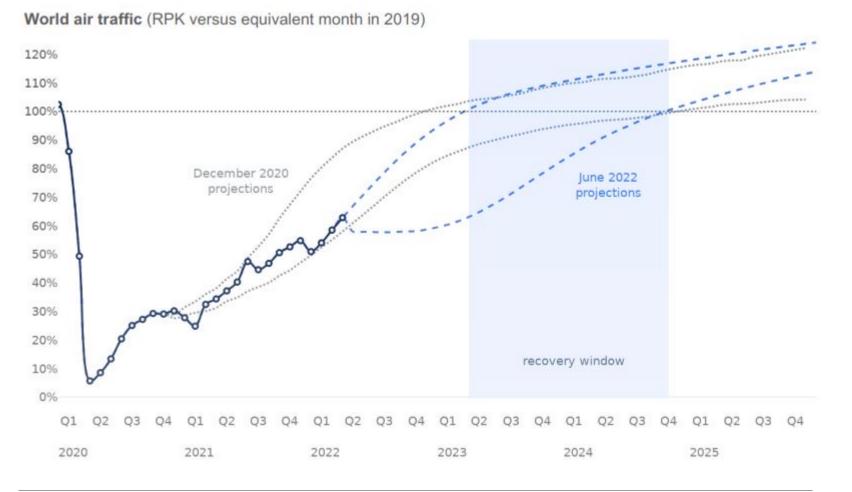


#### International leg traffic RPK compared to 2019



## Air traffic recovery to 2019 levels between 2023 and 2025

Source: Sabre, OAG, FR24, IATA, Airbus GMF

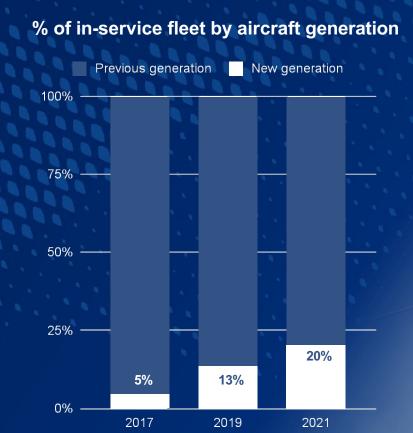


Recovery trend confirmed despite recent events (Omicron wave, war)

Lower boundary of recovery 'corridor' includes risk of further waves



## Airlines require the latest, most efficient and lowest-emission aircraft







## ~39,500 new passenger & freighter aircraft deliveries over 2022-2041

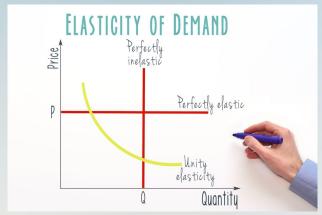
Source: IHS Markit, Airbus GMF Note: Passenger aircraft above 100 seats & freighters with a payload above 10t

Gross Domestic Product 2019-2041 CAGR	2.6%			
Passenger Traffic 2019-2041 CAGR	3.6%			
Freight Traffic 2019-2041 CAGR	3.2%			
Beginning 2020 fleet in service (Pre-Covid)	22,880			
2041 fleet in service	46,930			



## Fundamental drivers unchanged, but some becoming more relevant







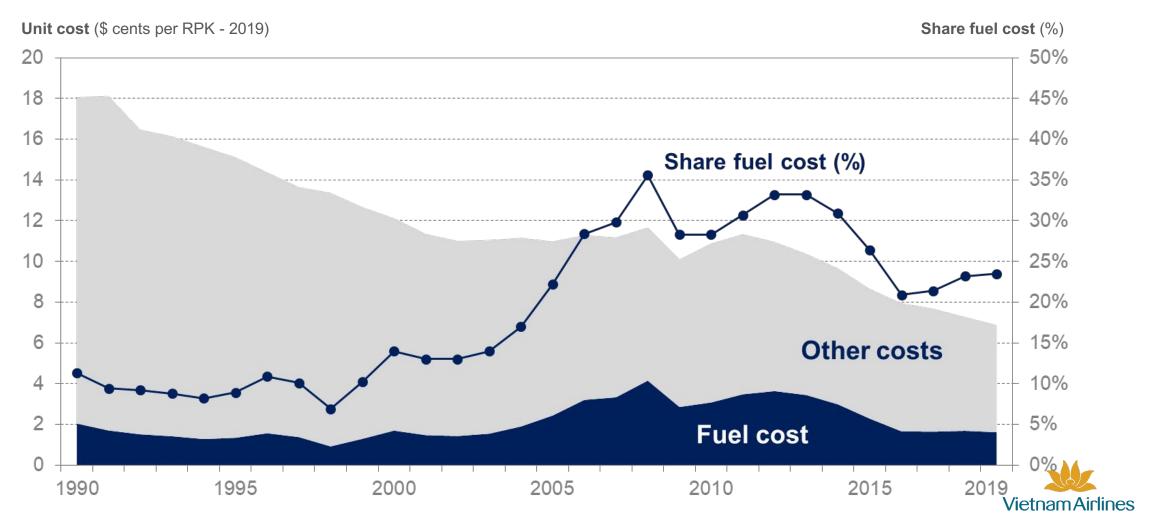






## Share of energy cost in airline operating costs is growing

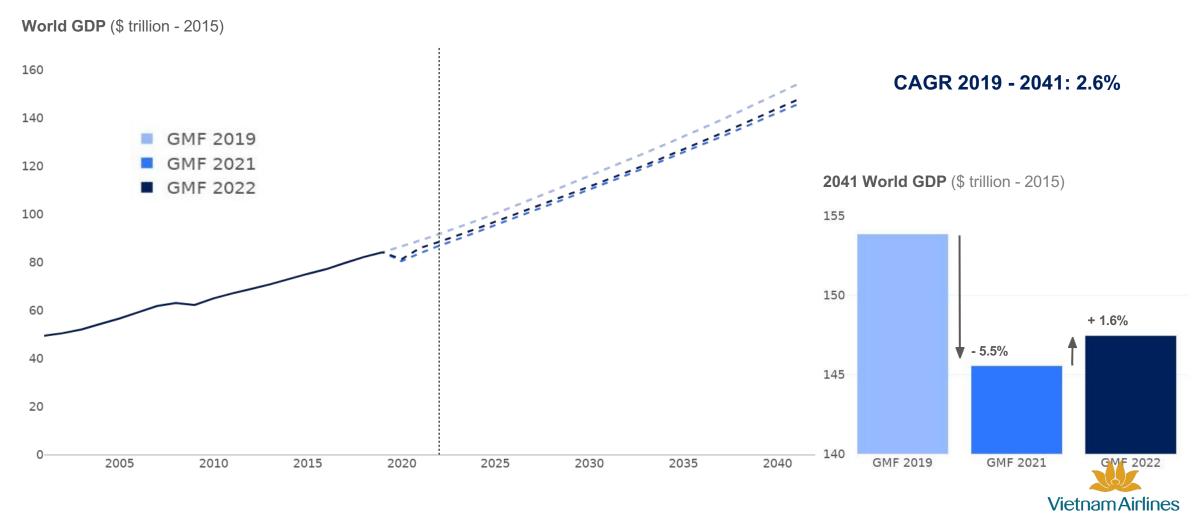
Source: IATA, Airbus GMF



## GDP projection has been reviewed upward since GMF 2021

#### Despite war in Ukraine generating downward pressure

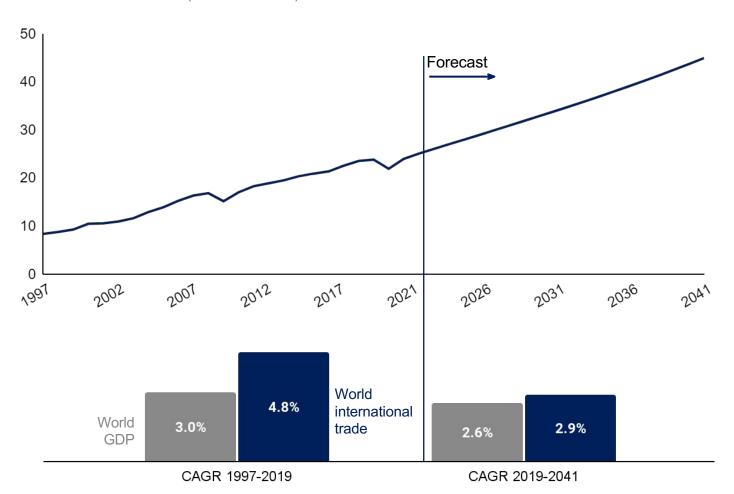
Source: IHS Markit, Airbus GMF



## World international trade is expected to double in the next 20 years

Source: IHS Markit, Airbus GMF





## Strong demand for air cargo supported by world trade growth

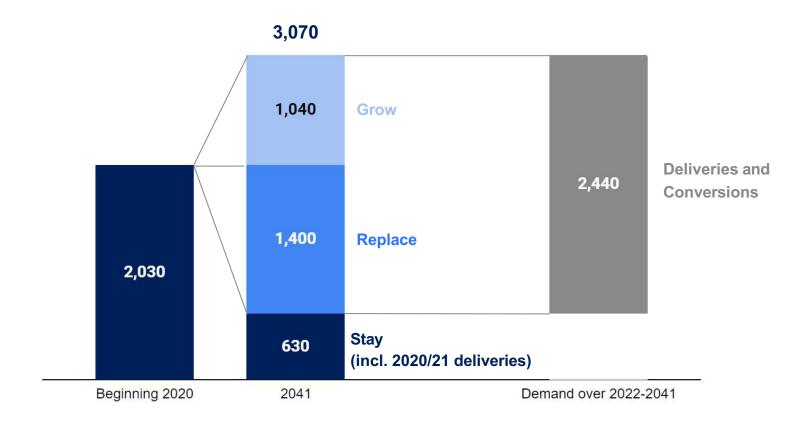




## World freighter fleet in service will reach 3,070 aircraft by 2041

Number of aircraft

Source: Airbus GMF Note: Freighters with a payload above 10t



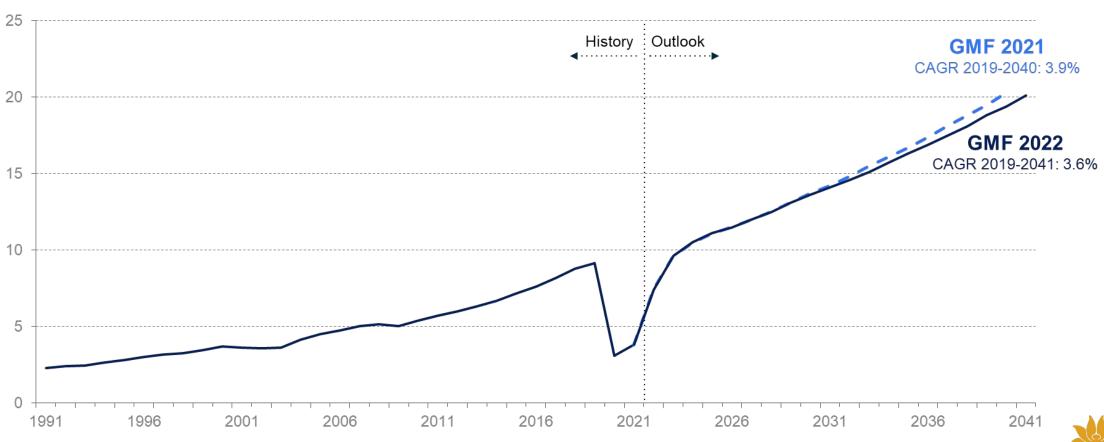
- 2,030 aircraft in-service beginning of 2020:
  - 31% will stay in-service (including 2020 & 2021 deliveries)
  - 69% will be replaced
- Demand for 2,440 new-build or converted freighters over 2022-2041



## Passenger traffic expected to grow at 3.6% from 2019 to 2041

Source: ICAO, Airbus GMF



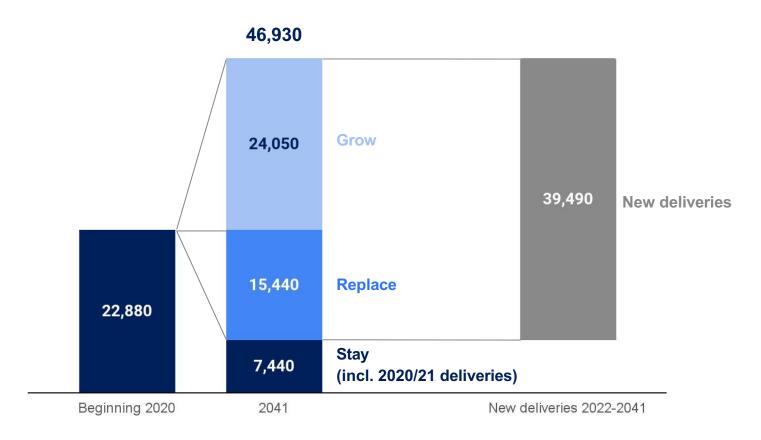


## Demand for ~39,500 new passenger & freighter aircraft

Source: Airbus GMF

Notes: Passenger aircraft above 100 seats & freighters with a payload above 10t

#### **Number of aircraft**



## • 22,880 aircraft in-service beginning of 2020:

- 33% will stay in-service (including 2020 & 2021 deliveries)
- 67% will be replaced

#### • 39,490 new deliveries 2022-2041:

- 60% for growth
- 40% for replacement



## Global demand for ~39,500 new passenger & freighter aircraft

Source: Airbus GMF

Note: Demand for passenger aircraft above 100 seats & freighters with a payload above 10t

#### **Typically Single-Aisle**

31,620 aircraft

80% share of total new del.

#### **Typically Widebody**

**7,870** aircraft

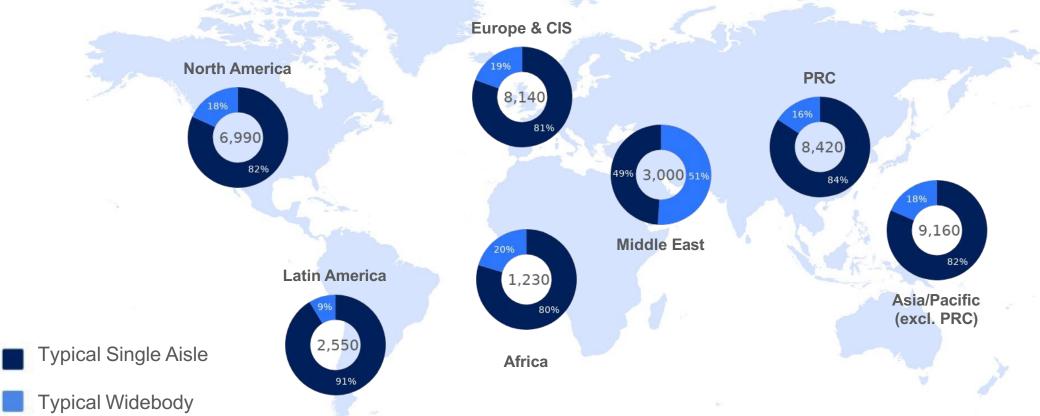
20% share of total new del.



### ~39,500 new deliveries between 2022 and 2041

#### 80% typically Single Aisle - 20% typically Widebody



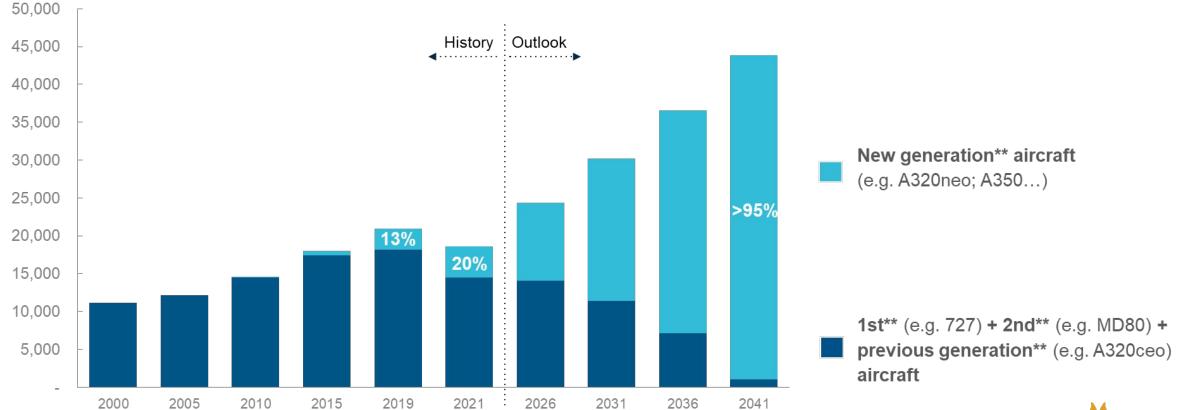




## By 2041, new generation passenger aircraft will represent >95% of the fleet

Source: Cirium, Airbus GMF

#### Number of passenger aircraft in service\*





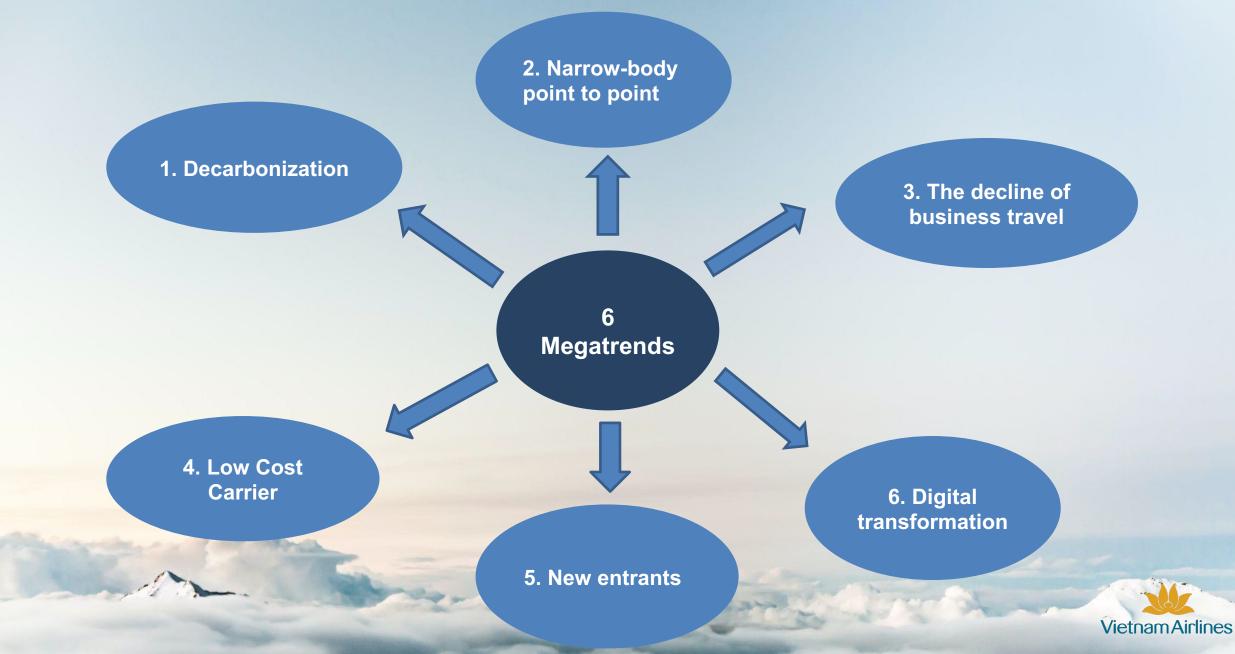
<sup>\*</sup> Western built passenger aircraft above 100 seats – pax aircraft only / \*\*1st generation: A300, DC 9, DC10, 707, 727, 737, 747 / 2nd generation: A310, MD11, MD80, MD90,737, 747, 757, 767, F100 Previous generation: A320 Fam., A330, A340, 717,737NG, 747, 777 / New generation: A220, A320neo Fam., A330neo, A350, A380, 737Max, 777X, 787 & new programs

#### Global Market Forecast 2022-2041

- Air traffic demand is coming back strongly as the world adapts to Covid.
   Traffic will recover to 2019 levels between 2023 and 2025
- GMF 2022 integrates effects of rising energy costs and stated policies
- Passenger traffic growth 3.6% CAGR
   Freight traffic growth 3.2% CAGR
- ~39,500 new aircraft deliveries will be needed, of which >2,400 new and converted freighters
- ~80% will typically be Single-Aisle aircraft and ~20% will be Widebodies
- Only 20% of today's fleet are latest generation



## 6 Megatrends shaping the future aviation industry



## Pilot and Technician Outlook by Region



\*PTO 2022 does not include a forecast for new personnel in Russia due to sanctions against aircraft exports.

Pilots Technicians Cabin Crew Members



#### Outlook on a Page

Region	Africa	China	Europe	Latin America	Middle East	North America	Northeast Asia	Oceania	South Asia	Southeast Asia	World
Total New Personnel	67,000	412,000	449,000	118,000	202,000	435,000	84,000	37,000	114,000	193,000	2,111,000
Pilots	20,000	126,000	122,000	35,000	53,000	128,000	22,000	9,000	37,000	50,000	602,000
Technicians	21,000	124,000	120,000	35,000	50,000	134,000	24,000	10,000	34,000	58,000	610,000
Cabin Crew	26,000	162,000	207,000	48,000	99,000	173,000	38,000	18,000	43,000	85,000	899,000

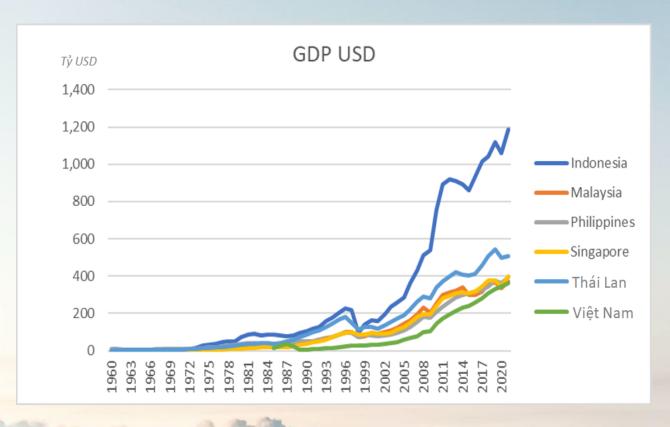


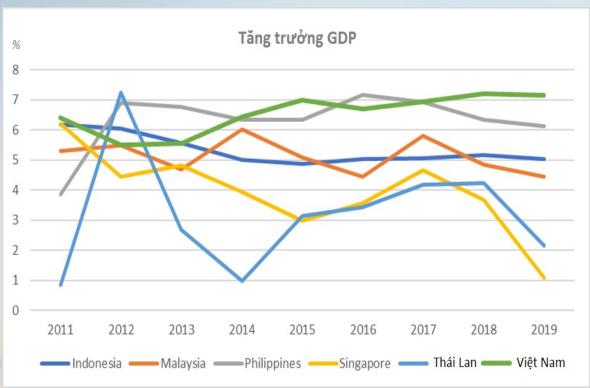






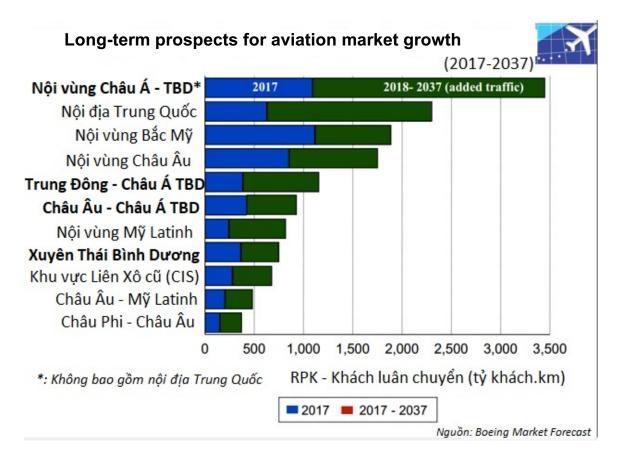
## The stable and sustainable development of the Vietnamese economy is the foundation for the development of the aviation market



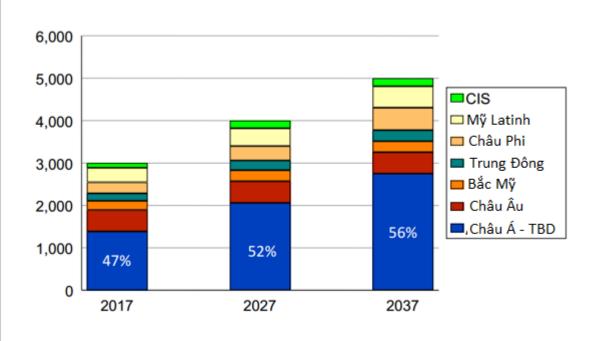




## Asia is the region with the largest potential for aviation development in the world, driven by the middle class







Hộ gia đình với thu nhập hàng năm từ 20.000 đến 150.000 USD theo PPP giá cố định 2017

The growth of the middle-class market in the Asia-Pacific region is driven by growth in China and India. It is estimated that by 2020, China's per capita GDP will increase by 1.5 times compared to 2014, while India will increase by about 1.8 times

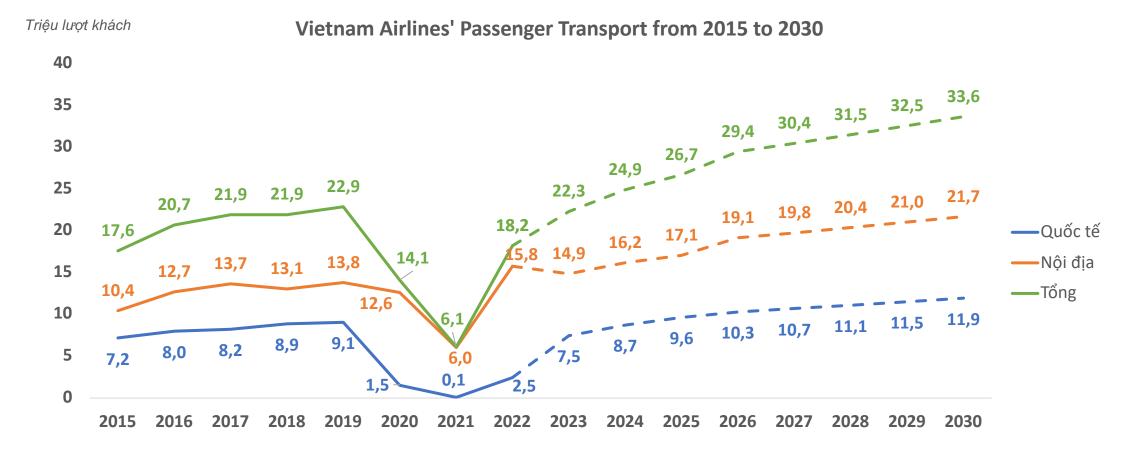


## The Vietnamese aviation market is forecasted to recover to the level of 2019 by 2024, while international market recovery is expected by 2025. The domestic market has already surpassed 2019 by 2022



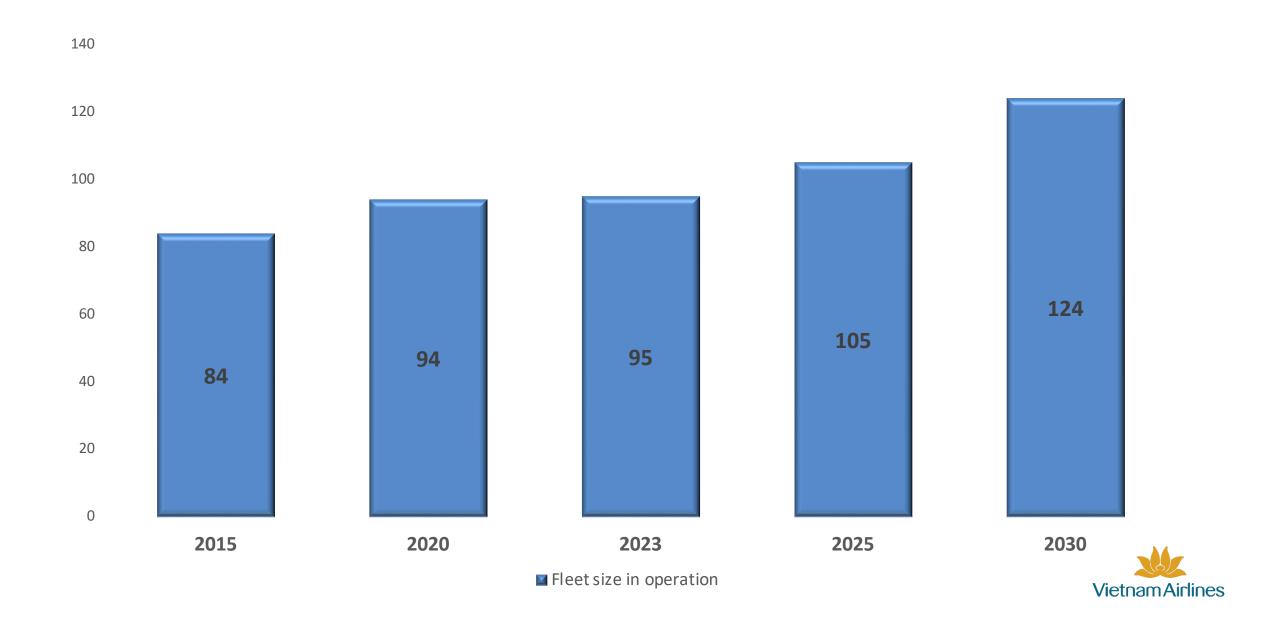


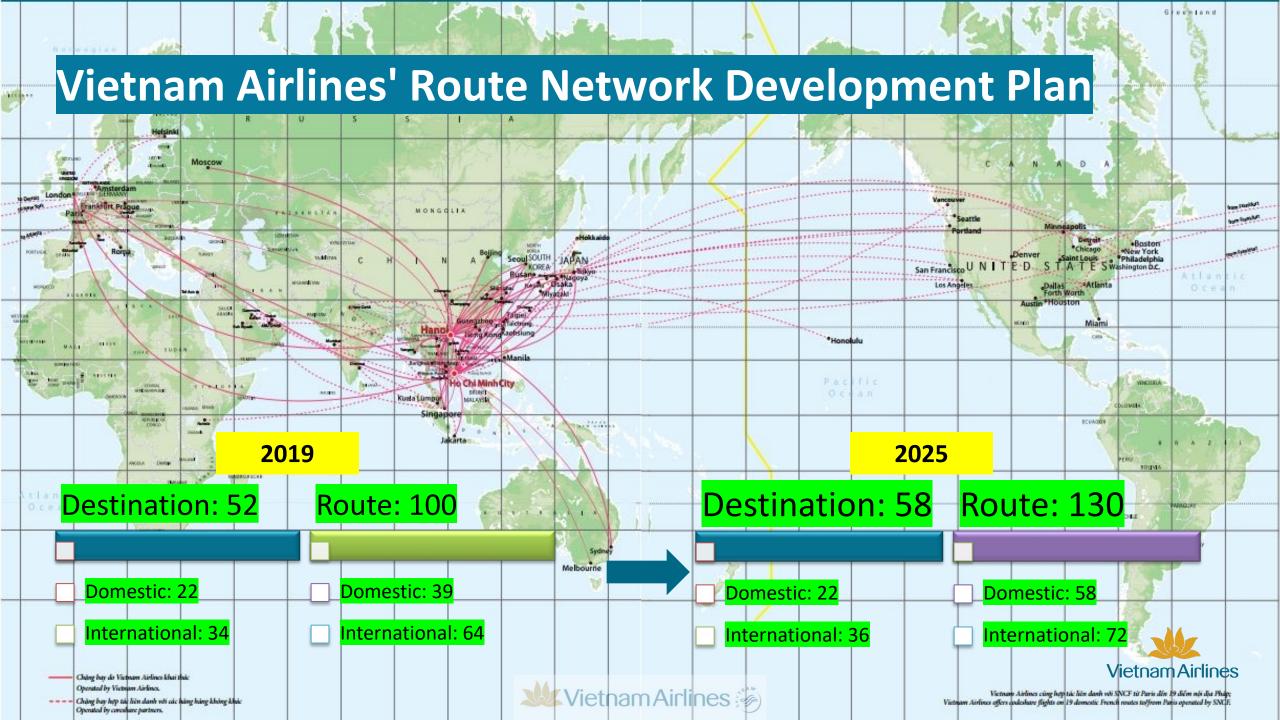
Vietnam Airlines' passenger traffic is expected to recover from 2024 for domestic flights, and from 2025 for international flights, with the domestic market surpassing the 2019 level in 2022. From 2026 to 2030, the growth rate is expected to be a minimum of 3-4% per year





## Vietnam Airlines' Fleet Plan through 2030







## Merci Beaucoup