



Asia Pacific Aviation EMBRACING FUTURE CHALLENGES

Andrew Herdman
Director General
Association of Asia Pacific Airlines







Overview

- Asia Pacific aviation
- Industry trends & outlook
- Evolving business strategies
- Global regulatory challenges
- Future growth



Aviation: delivering global mobility







- Safely connecting people and business
- Wider social and economic benefits
- Outstanding safety record
- Committed to sustainable growth

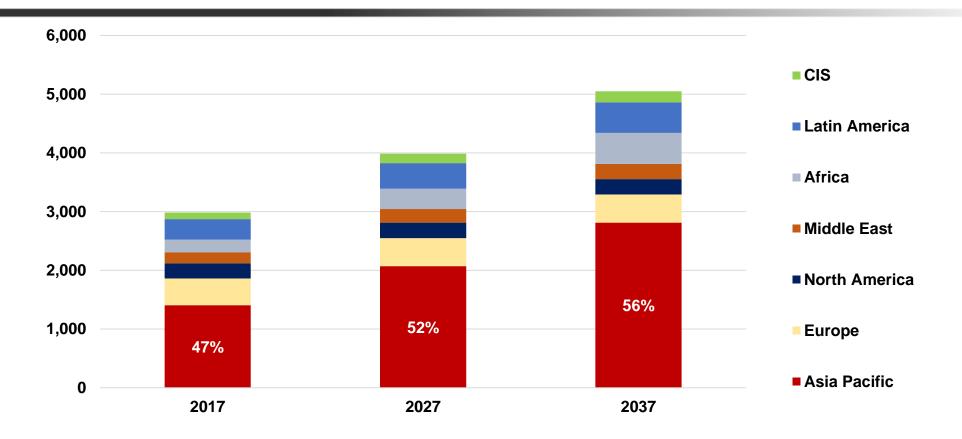


Asia Pacific

- Diverse geographic region
- Home to more than 4 billion people
- Dynamic economies generate 34% of global GDP
- Aviation widely recognised as a key contributor to economic and social development
 - Supports 30 million jobs and US\$684 billion in GDP
- Wide range of income levels, rapidly growing middle class



Growth of Asian middle class consumers



Rising demand for goods & services including air travel



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Source: Airbus GMF 2018 - 2037

Asia Pacific Aviation

US\$186 billion revenue

US\$9 billion net profit

1,486 million passengers

1,055 million domestic

431 million international

22 million tonnes of cargo

7,997 aircraft

Asia Pacific carriers overall market share:

34% of global passenger traffic

36% of global cargo traffic

Source: Combined AAPA + non-AAPA airlines GMT+5 to GMT+12

2017 Data - Traffic: IATA World Air Transport Statistics, Financials: AAPA Estimates



World's ten busiest domestic routes

Rank	Route	PAX (million)
1	Jeju – Seoul	13.5
2	Melbourne – Sydney	7.8
3	Fukuoka – Tokyo	7.6
4	Sapporo – Tokyo	7.4
5	Beijing – Shanghai	6.4
6	Hanoi – Ho Chi Minh City	6.4
7	Delhi – Mumbai	5.6
8	Tokyo – Okinawa	4.8
9	Jeddah – Riyadh	4.8
10	Beijing - Chengdu	4.6

Source: IATA WATS 2018, 2017 data

almost all in Asia Pacific



World's ten busiest international / regional routes

Rank	Route	PAX (million)
1	Hong Kong - Taipei	5.4
2	Dublin – London	3.4
3	Jakarta – Singapore	3.3
4	Bangkok – Hong Kong	3.1
5	Kuala Lumpur – Singapore	2.8
6	Hong Kong – Seoul	2.7
7	London – New York	2.7
8	Osaka – Taipei	2.6
9	Bangkok – Singapore	2.5
10	Tokyo – Taipei	2.5

Source: IATA WATS 2018, 2017 data

almost all in Asia Pacific



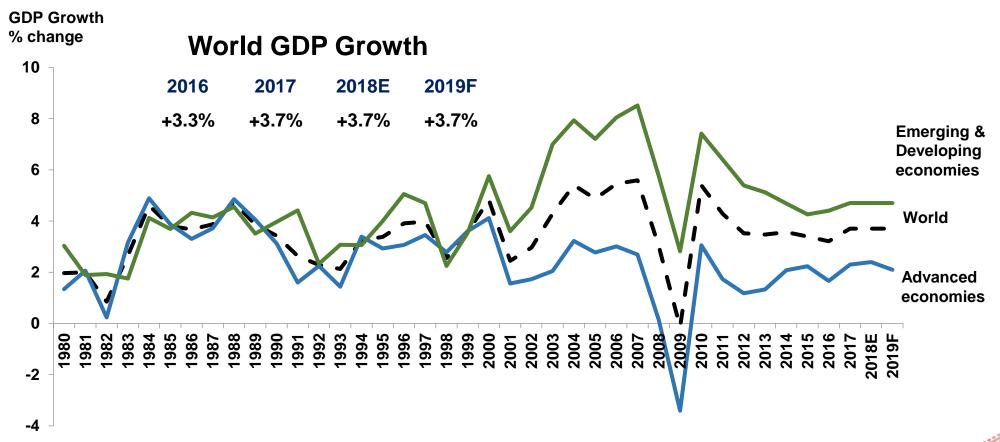




Industry Outlook



Global economic trends

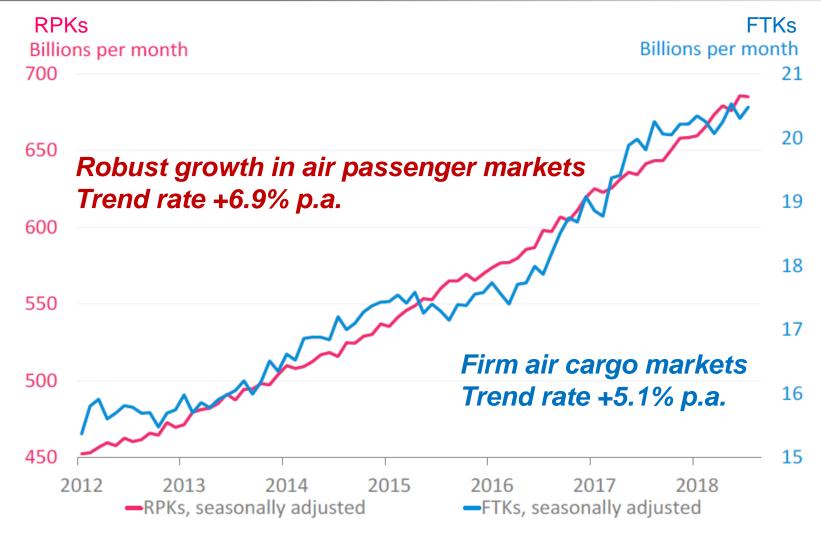


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Policy uncertainty including trade frictions may undermine confidence

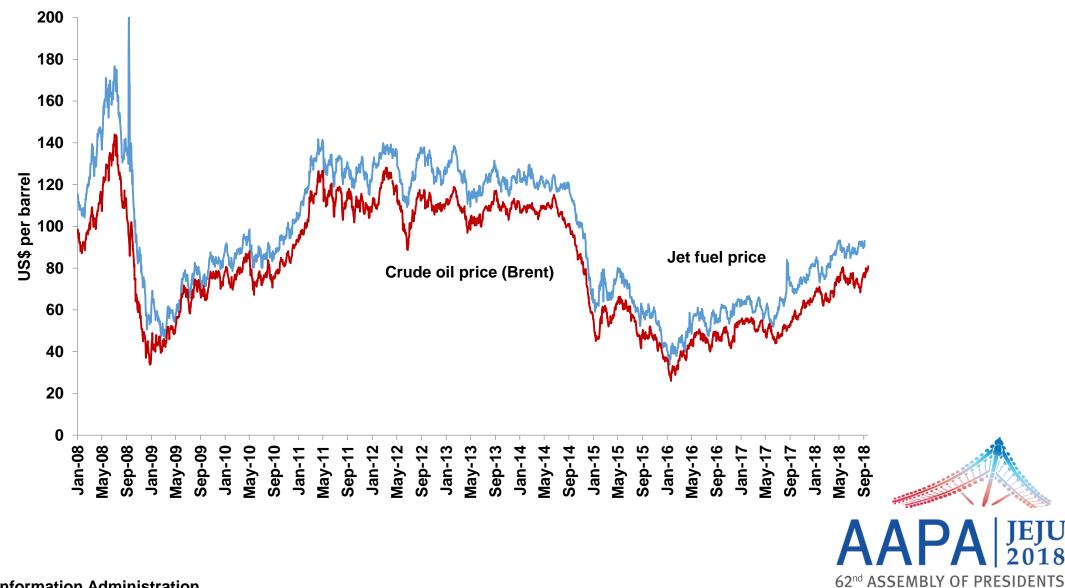
Source: IMF WEO October 2018

Global passenger and cargo traffic

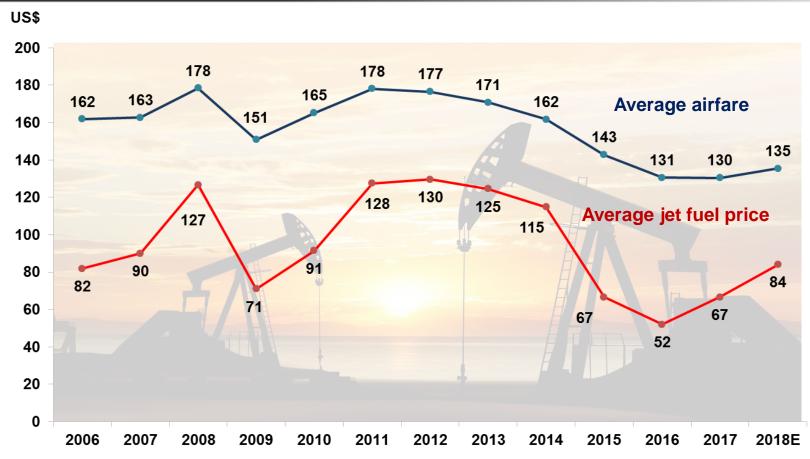




Oil prices rising again



Airfares follow changes in oil prices



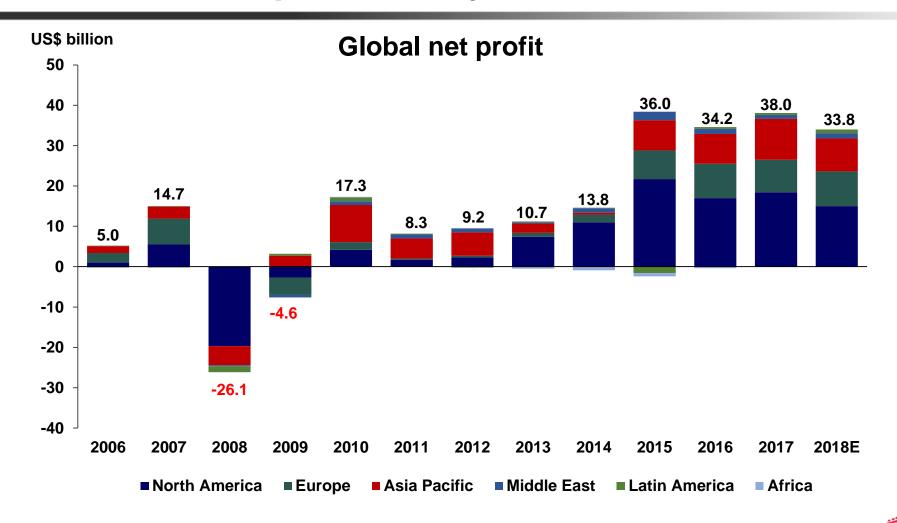
- · Airfares remain highly competitive
- Margins under pressure



Source: IATA Industry Forecast June 2018

Global airline profitability trends



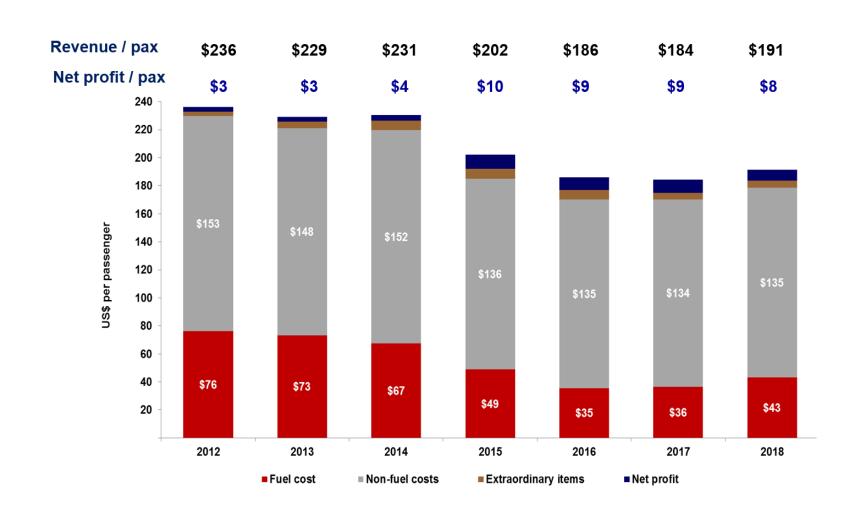


- Strong passenger and air cargo markets
- Profit margin still just 4%



Revenue & Profit per Passenger







Profit per Passenger below US\$10 even in good years

Source: IATA

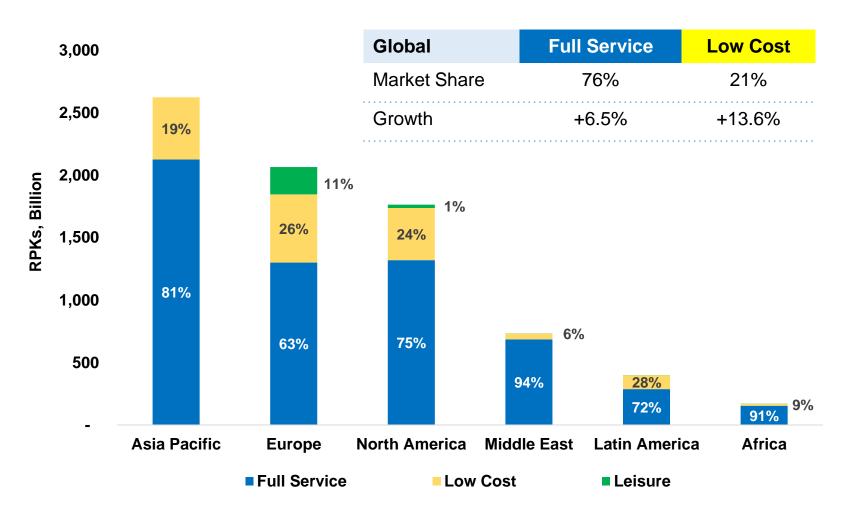




Evolving Business Strategies



Airline business model share by region





Source: IATA WATS 2018, 2017 data

Digitising the passenger experience

- Evolving consumer expectations
- Smartphone for everything
- Streamlining customer processes
- Online research + booking + ancillaries + payment
 + digital token
- Self-service check-in + bag drop + boarding
- Biometric identity checks
- Flight updates & baggage tracking
- Automated service recovery

Challenge of harnessing new technologies to deliver a better passenger experience

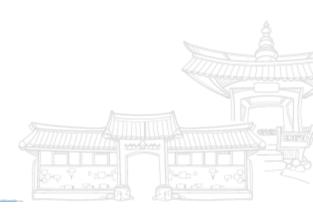




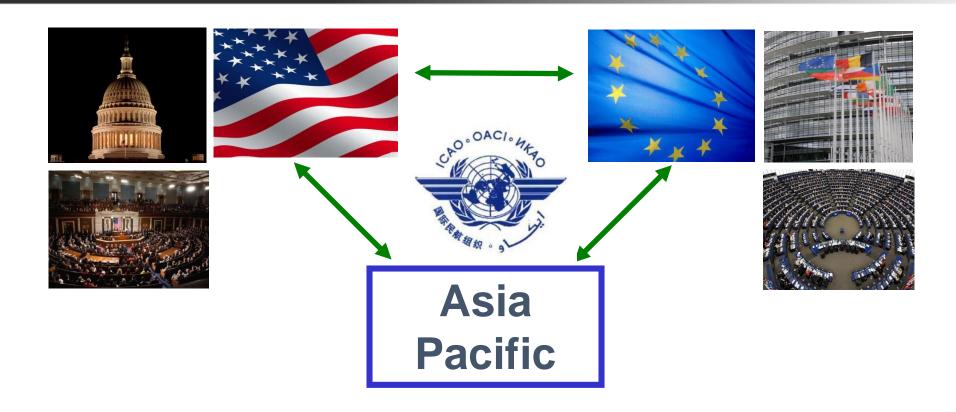




Global Regulatory Challenges



Global regulatory influences



- Wider impact of US and EU regulations
- Asia Pacific needs a unified voice
- Need for harmonised global standards



Global regulatory challenges

Aviation is subject to intensive regulation

- Safety
- Security
- Sustainability
- Passenger Facilitation
- Consumer Protection
- Taxes & Charges
- Infrastructure



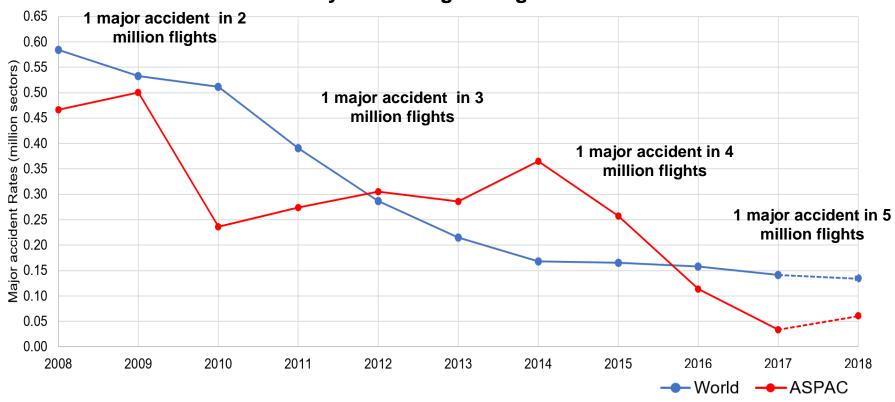


Aviation Safety Performance



Western-built Jet Aircraft Major Accident Rates by Operator Region 2008-2018

3-year moving averages



Outstanding safety record built on focus, commitment and cooperation

Source: AAPA

*Data as of 10 October 2018



Aviation Security



- Aviation remains highly secure despite perceived risks
- Threats and challenges evolving: no room for complacency
- Good security about comprehensive threat assessment and balanced risk management, not the elimination of every conceivable risk
- Shared global concern requires close international coordination built on trusted relationships
- Mitigation measures need to be proportionate, focus on the probable threat, avoid unnecessary disruption
- Approach to security can learn from safety management



Cybersecurity



- Universal dependence on information technology
- Growing connectivity and digitisation bring increased challenges and vulnerabilities
- Cyber threats constantly evolving
- Criminals as well as State actors
- New regulatory initiatives
- Focus on ecosystem and resilience

Requires trust and cooperative efforts



Aviation & Sustainable development



- Aviation pursuing ambitious strategy:
 - Fuel efficiency + Operational enhancements + Infrastructure improvements
 + Sustainable alternative fuels + Carbon offsets
 - Carbon Neutral Growth from 2020
 - A 50% reduction in net aviation CO₂ emissions by 2050, relative to 2005 levels
- Aviation is the first industry sector to commit to CO₂ reductions using a global market based measure
- ICAO CORSIA
 - Emissions reporting for all operators 2019
 - Carbon offsetting obligations 2021 onwards
- Risk of duplicative measures undermining support

Aviation continues to deliver on its commitments



Passenger Facilitation



- Challenges of processing 12 million daily passengers
- Harness technologies to streamline airline, security & border control processes
- Lack of data exchange standards and concerns over privacy issues
- Proliferation of complex and inconsistent passenger rights regulations confuse travellers
- Mass disruption events require close cooperation of multiple stakeholders

Need for closer collaboration to improve passenger facilitation whilst enhancing border security

Taxes & Charges



- Opportunistic taxes hurt economic development & impede job creation
- User charges must be transparent, costrelated, non-discriminatory & for current use
- Economic regulation of monopoly service providers required

Aviation is a catalyst for economic growth, job creation & social development



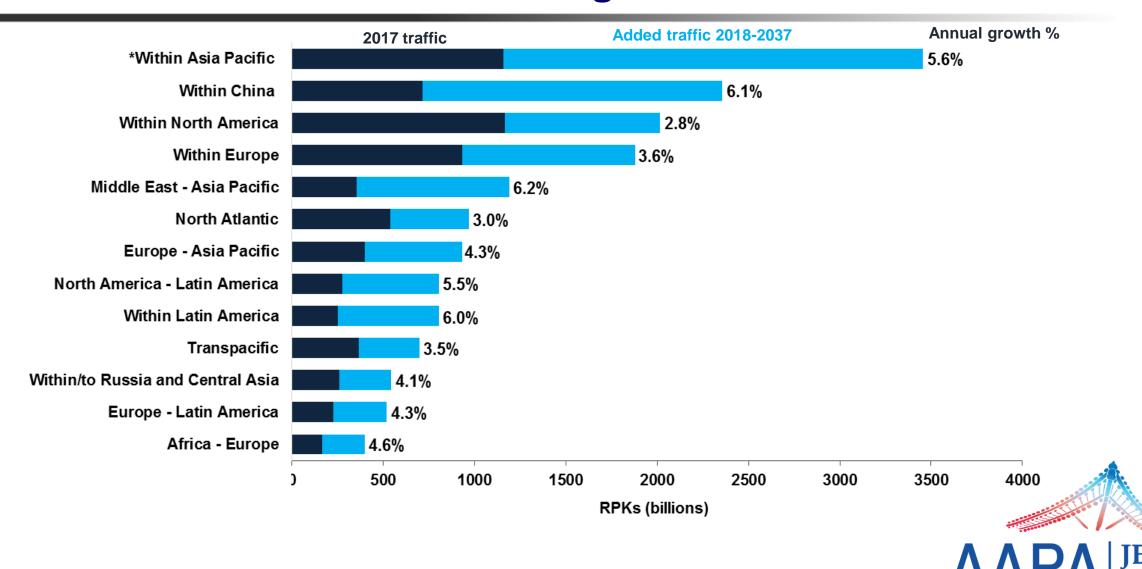




Future Growth



Global Aviation - Future growth



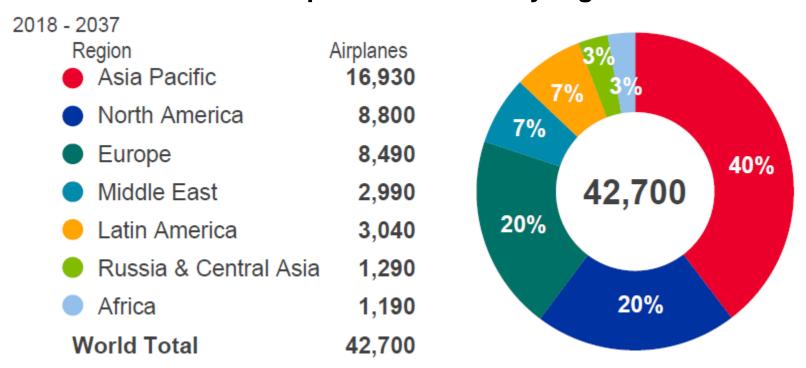
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Source: Boeing CMO 2018-2037

*Does not include travel within China

Global aviation - future aircraft orders

New airplane deliveries by region



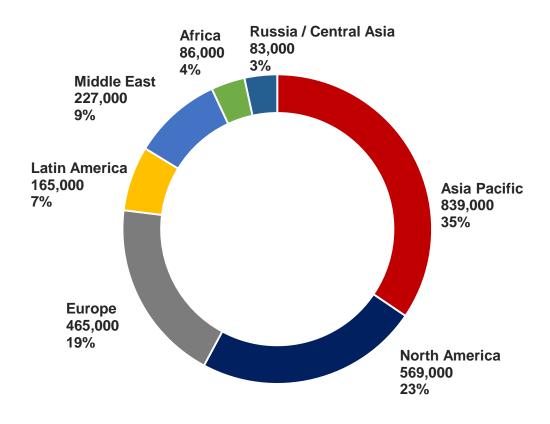
- Asia Pacific to account for 40% of new aircraft deliveries
- Corresponding infrastructure & manpower requirements

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Source: Boeing CMO 2018-2037

Aviation – manpower development challenge

Demand for Pilots, Technicians & Cabin Crew 2018 - 2037



- Need to attract, train and develop skilled manpower to meet future growth
- ICAO Next Generation of Aviation Professionals (NGAP) programme
- Government policy on education and training
- Private sector partnerships
- Commitment to workforce diversity and gender equality

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Source: Boeing Pilot and Technician Outlook 2018 - 2037

Infrastructure



- Airport Capacity
 - Long-term planning to meet projected growth
 - Capital investments required but need cost vigilance
 - Slot management only an interim measure
- Various forms of public and private sector involvement
- Economic regulation & oversight
 - Balancing interests of airlines, airports and travelling public

Governments have a responsibility to coordinate infrastructure planning and regulatory oversight



Closing thoughts



- Aviation a key driver of global economic and social development
- Infrastructure planning is now critical
- Airline strategies evolving in response to changing market dynamics and consumer preferences
- Regulatory oversight should focus on maintaining consistent global standards on safety, security and ensuring a competitive business landscape

Asia Pacific airlines at the forefront of global air transport development



