

Asia Pacific Aviation

Competitive Dynamics & Growth

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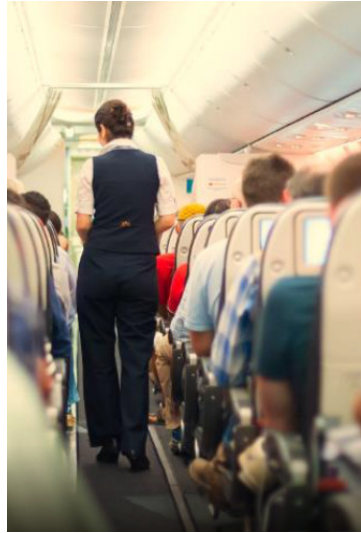
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Aviation Conference
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W Singapore, Sentosa Cove

Willis Towers Watson 

Overview

- **Asia Pacific aviation**
- **Business trends**
- **Future growth**
- **Sustainability**
- **Regulatory challenges**

Aviation: delivering global mobility



4.1 billion
passengers

11+ million daily

35%
by value of
global trade

**Goods worth
US\$6 trillion**



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

Source: ICAO Preliminary Traffic Report, ATAG Benefits Beyond Borders

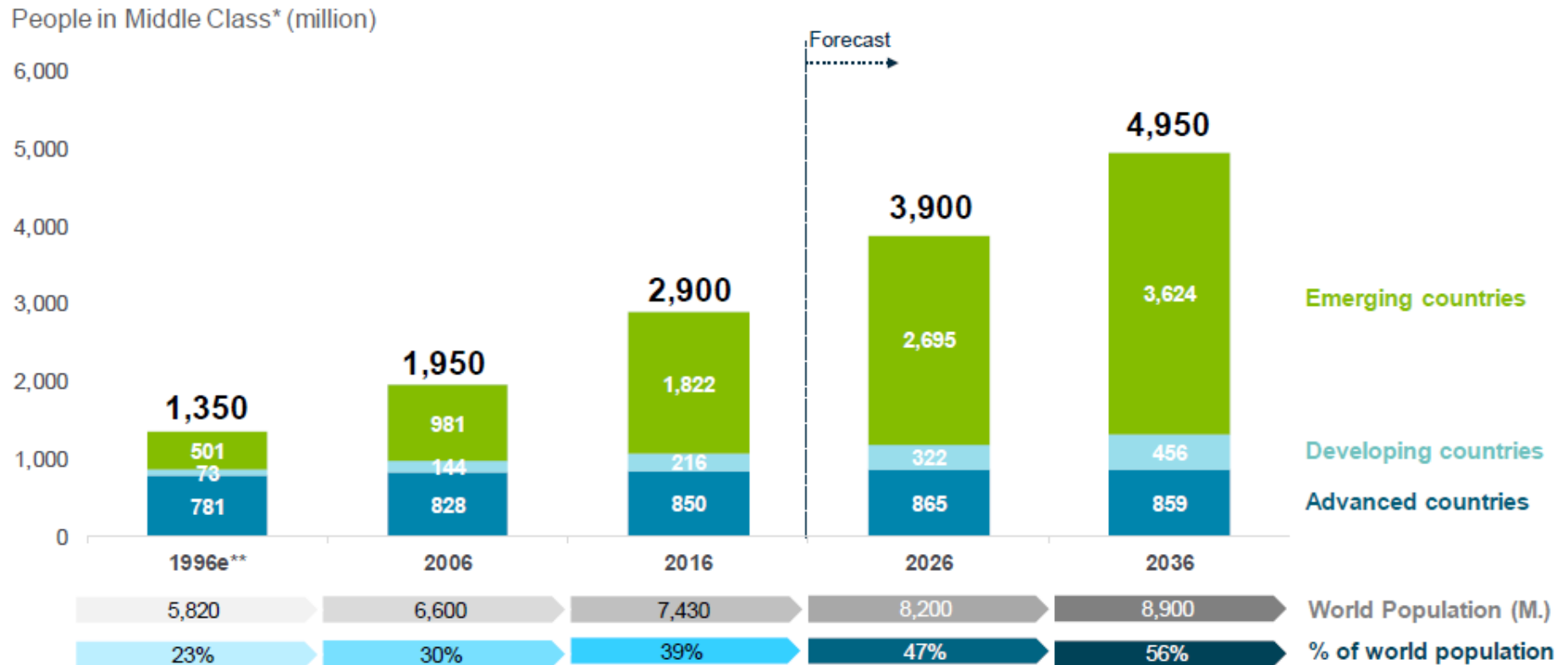
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Asia Pacific

- **Diverse geographic region**
- **Home to more than 4 billion people**
- **Dynamic economies generate 35% of global GDP**
- **Aviation widely recognised as a key contributor to economic and social development**
 - **Supports 29 million jobs and US\$626 billion in GDP**
- **Wide range of income levels, rapidly growing middle class**

Source: IMF, ATAG Benefits Beyond Borders

Growing middle class



* Households with yearly income between \$20,000 and \$150,000 at PPP in constant 2016 prices

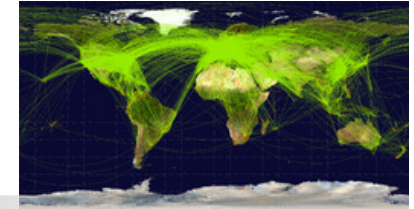
** Estimate for 1996 split by region

Source: Airbus GMF 2017-2036

Rapid growth of emerging market consumers

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Asia Pacific Aviation



US\$218 billion revenue

US\$8 billion net profit

1,468 million passengers

1,054 million domestic

414 million international

23 million tonnes of cargo

7,867 aircraft

Asia Pacific carriers overall market share:

34% of global passenger traffic

37% of global cargo traffic

Data: Traffic: AAPA 2017 Estimates, Financials: IATA 2017 Estimates

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

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World's ten busiest international/regional routes

Rank	Route	PAX (million)
1	Hong Kong - Taipei	5.2
2	Jakarta - Singapore	3.4
3	Dublin – London	3.4
4	Bangkok – Hong Kong	3.0
5	Kuala Lumpur – Singapore	2.8
6	Hong Kong – Seoul	2.8
7	London – New York	2.7
8	Hong Kong – Singapore	2.6
9	Osaka – Taipei	2.6
10	Tokyo – Taipei	2.5

Source: IATA WATS 2017, 2016 data

Key Asian air routes typically served by five or more airlines

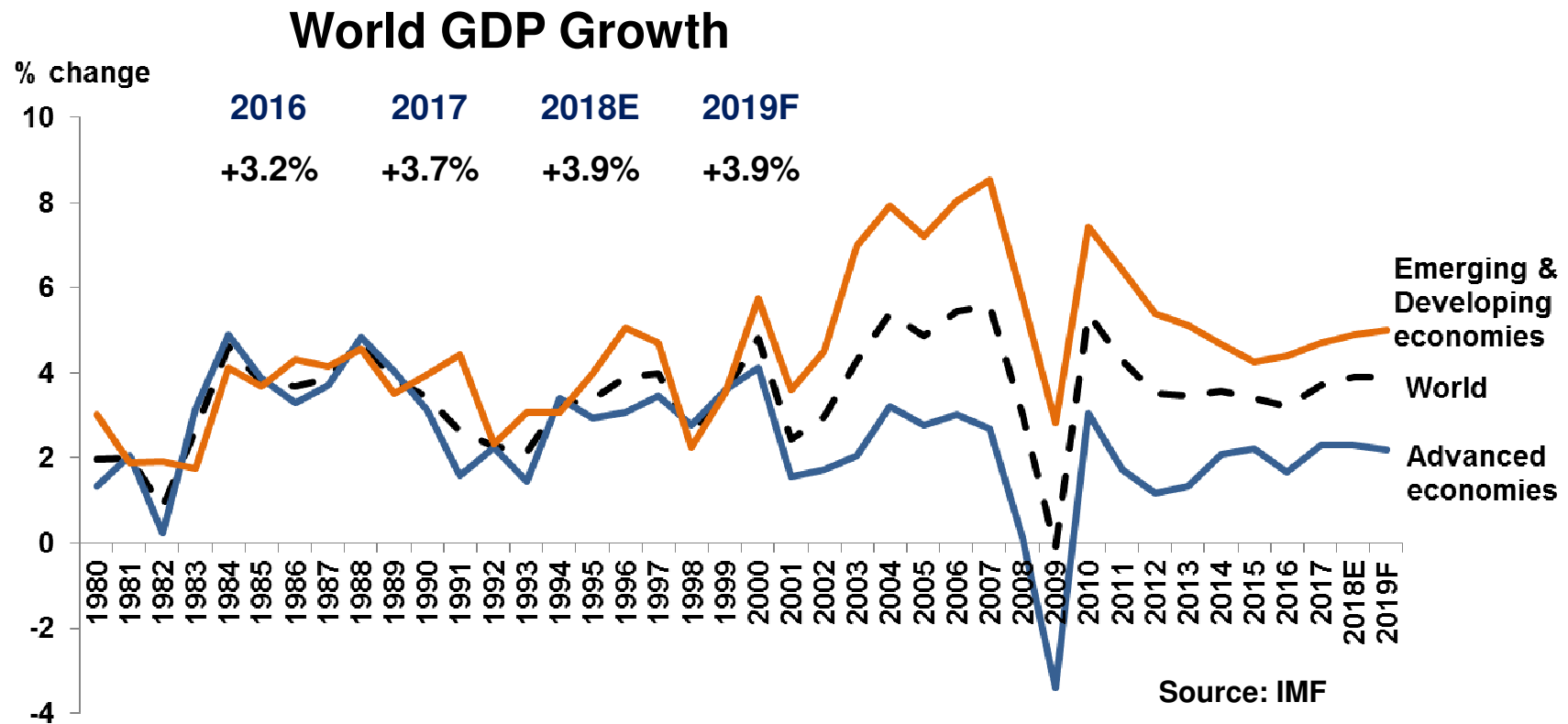
World's ten busiest domestic routes

Rank	Route	PAX (million)
1	Jeju – Seoul	11.6
2	Sapporo – Tokyo	7.7
3	Fukuoka – Tokyo	7.3
4	Melbourne – Sydney	7.3
5	Hanoi – Ho Chi Minh City	6.3
6	Beijing – Shanghai	6.3
7	Delhi – Mumbai	5.5
8	Jakarta – Surabaya	4.5
9	Jeddah – Riyadh	4.4
10	Beijing - Chengdu	4.4

Source: IATA WATS 2017, 2016 data

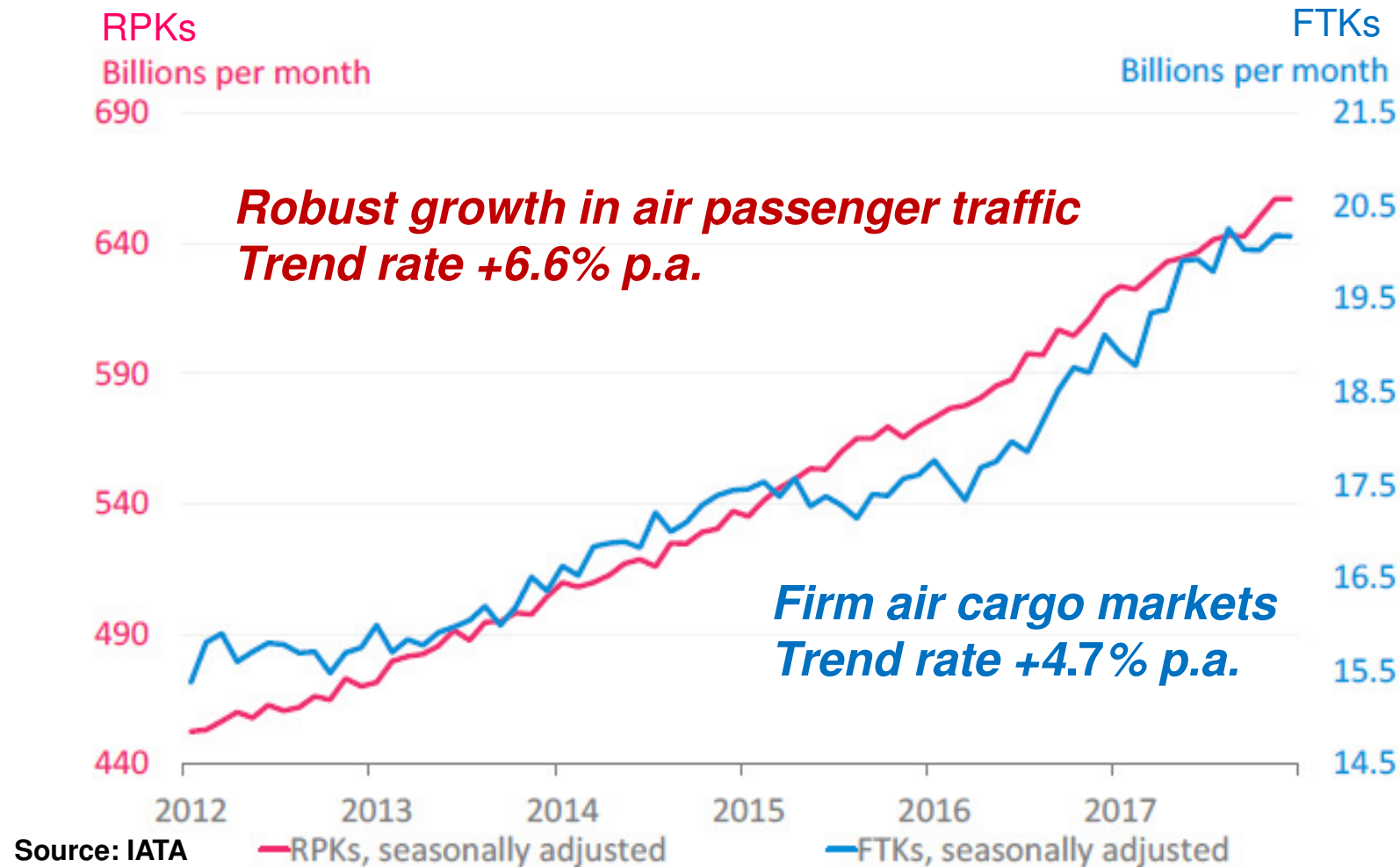
... also mostly in Asia

Global economic trends



Synchronized recovery & global economic growth

Global passenger and cargo traffic



Evolving airline business strategies

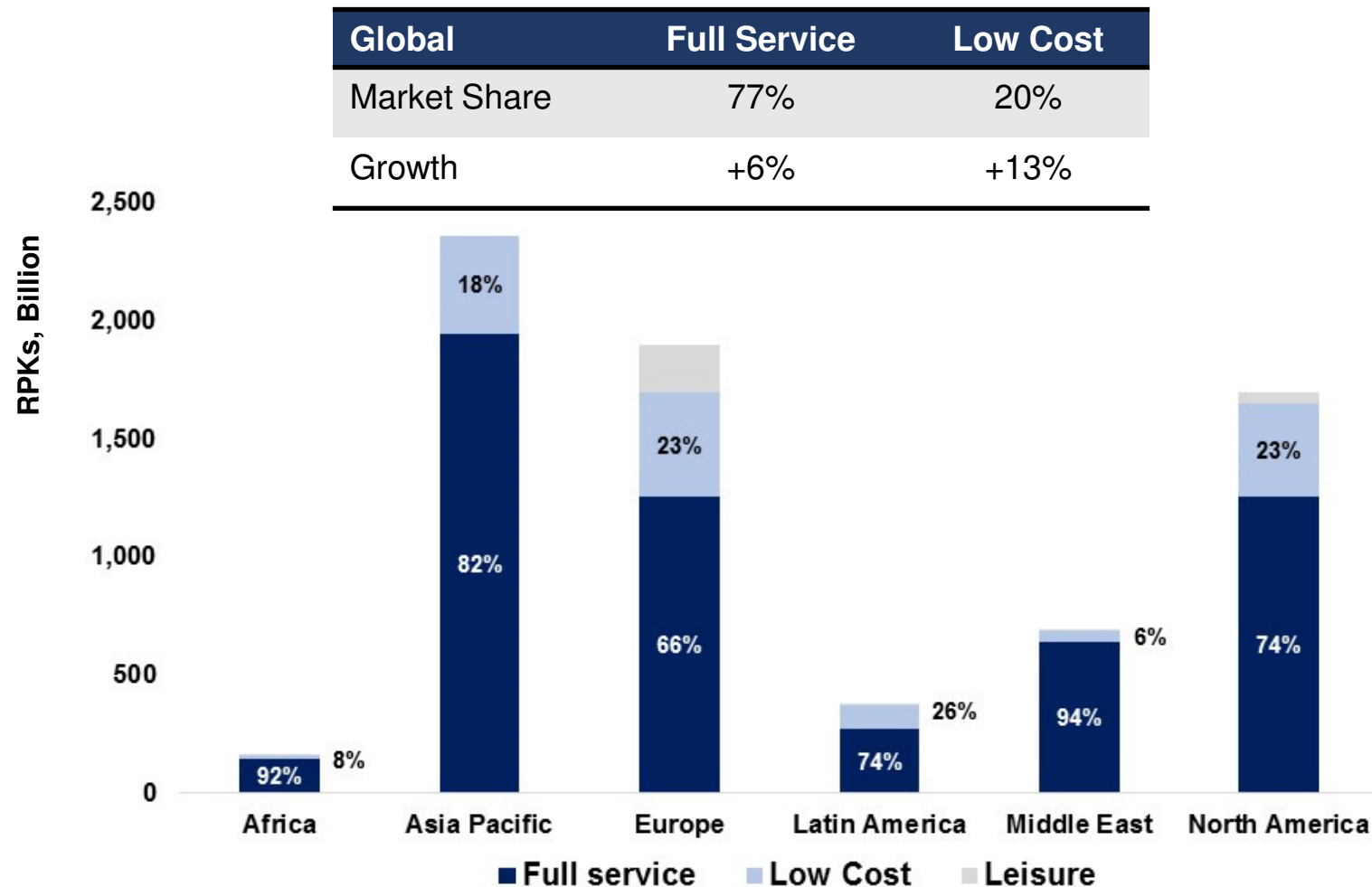


- Business models continue to evolve, adapting to a dynamic marketplace
- Group structures & multiple brands
- Differentiated classes of service
- Unbundling ancillary services at a price
- Revenue optimisation through network connectivity & cooperative relationships

Asia Pacific airlines at the forefront of global industry developments

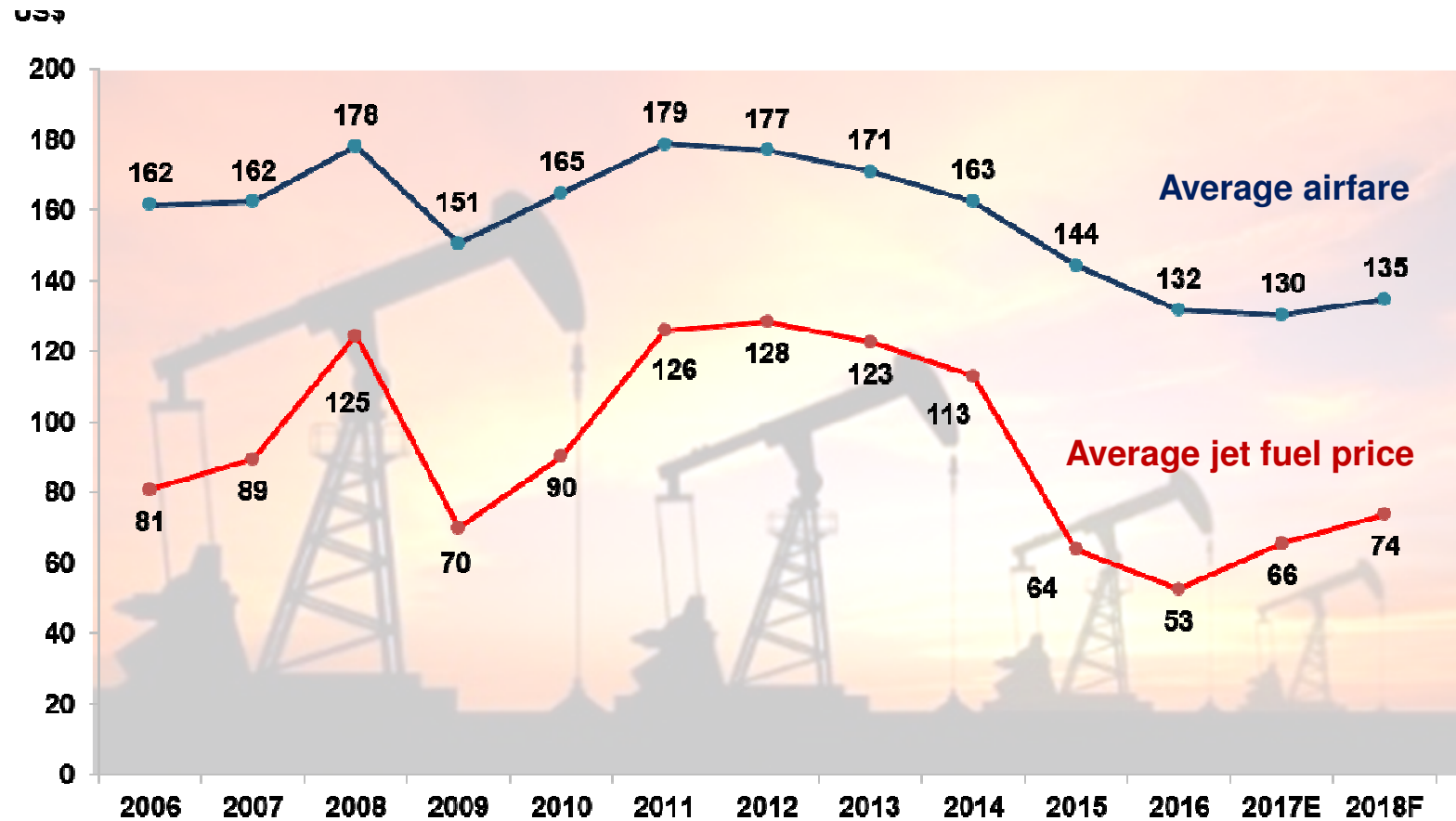


Airline business models: share by region



Source: IATA WATS 2017, 2016 data

Air fares track changes in fuel costs



Fares remain competitive and very affordable, boosting growth

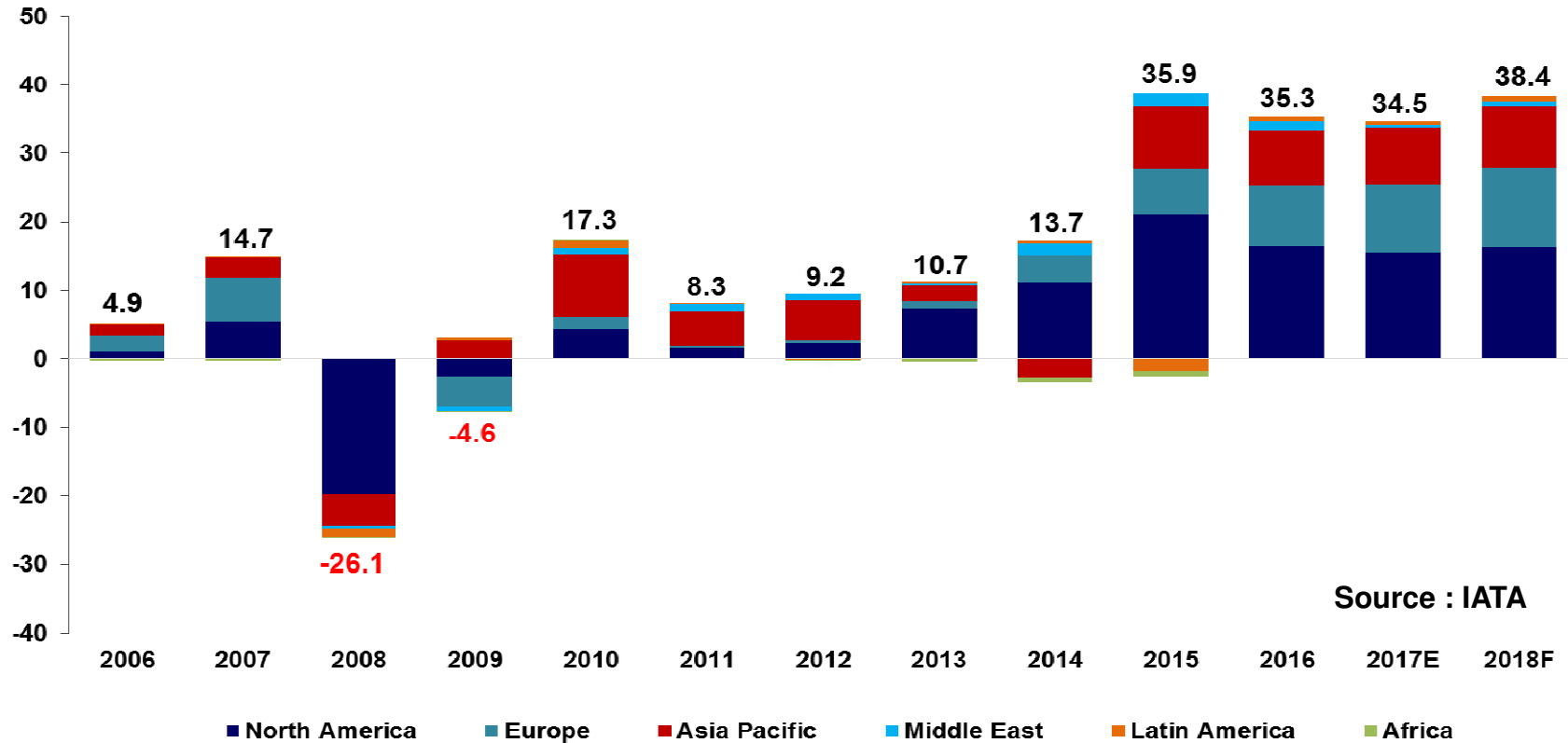
Source : IATA

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Global airline profitability trends



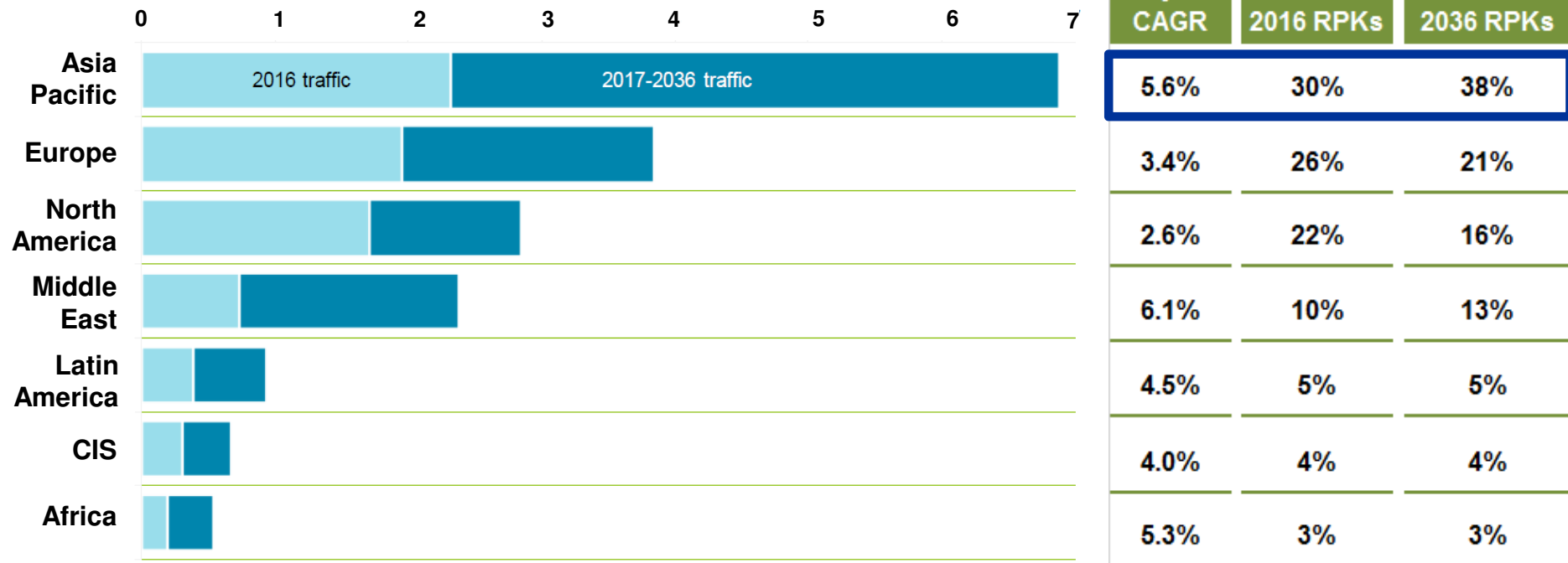
US\$ billion



- ***Robust passenger and air cargo markets***
- ***Average profit margin only 4.6% or US\$9 per passenger***

Asia Pacific markets to lead future growth

Traffic by airline domicile (trillion RPKs)

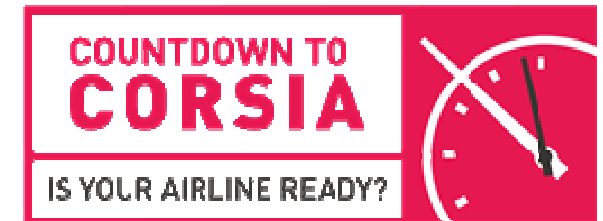


Source: Airbus GMF 2017-2036

- **Major capital investment required**
- **Asia Pacific represents 40% of future aircraft orders & associated infrastructure requirements**

Aviation & Sustainable Development

- Aviation pursuing multi-pillar strategy:
 - Fuel efficiency through technology
 - Operational enhancements
 - Infrastructure improvements
 - Sustainable alternative fuels
 - Supplementary carbon offsets through ICAO CORSIA
- Aviation is the first industry sector to implement a global market based measure
 - ICAO CORSIA technical guidelines - 2018
 - Airline international emissions reporting - 2019
 - ICAO CORSIA carbon offsetting obligations - 2020 onwards



Aviation has set ambitious environmental targets and is delivering on its commitments

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Infrastructure



- **Airports and airspace modernisation must keep pace with rapid traffic growth to avoid congestion and delays**
- **Significant capital investment required**
- **Slots management is an interim measure, not a solution**
- **Governments need to think beyond national borders and develop regional air traffic flow management systems**

***Government role to coordinate
infrastructure planning and investment***

Global regulatory influences

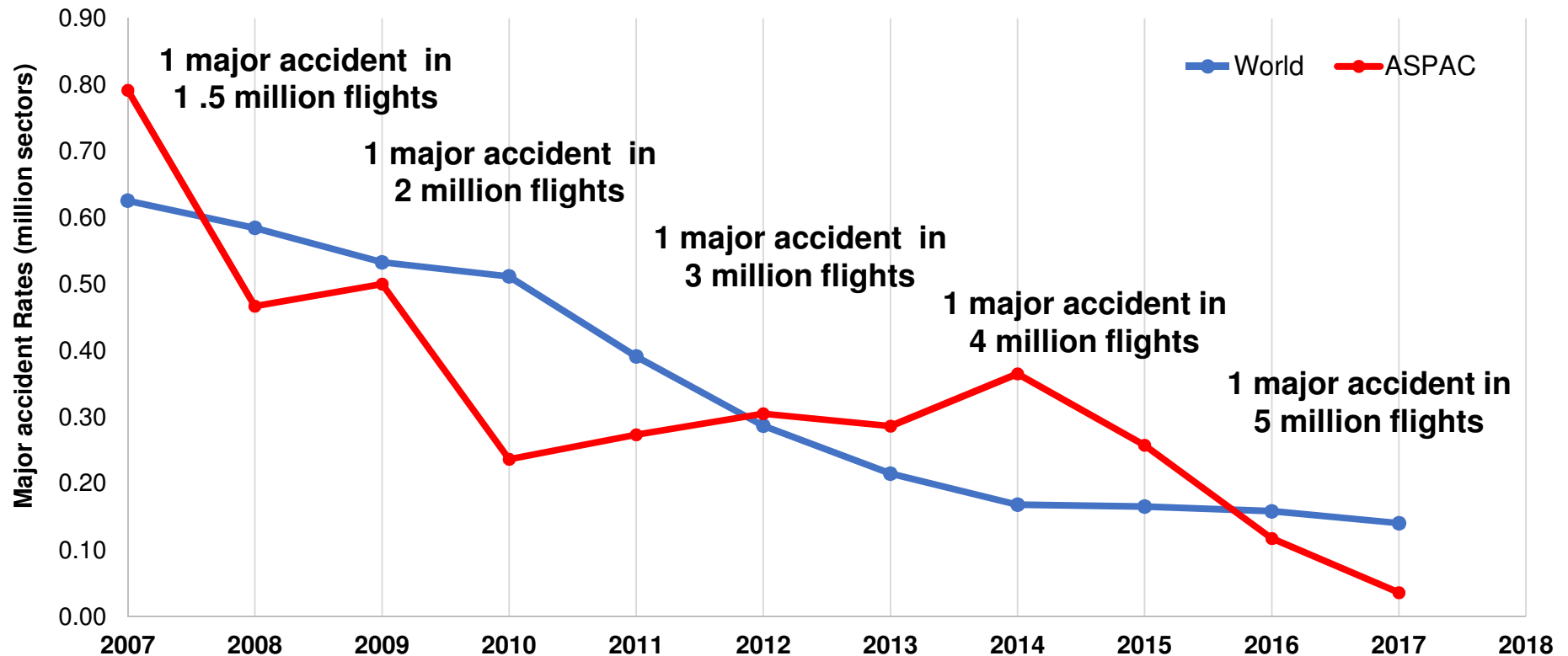


- *Wider impact of US and EU regulations*
- *Asia Pacific needs a unified voice*
- *Need for harmonised global standards*

Aviation Safety Performance



Western-built Jet Aircraft Major Accident Rates
by Operator Region 2007-2017
3-year moving averages



Source: AAPA

Striving for continuous improvement

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Aviation Security



- **Aviation remains highly secure despite perceived risks**
- **Threats and challenges evolving: no time for complacency**
- **Shared global concern requires close international coordination**
- **Mitigation measures need to be proportionate, focus on the probable threat, avoid unnecessary disruption**
- **Unilateral measures are inefficient and not sustainable**
- **Support ICAO leadership and multilateral cooperation involving trusted relationships between governments & industry**



Cyber Security



- **Aviation safety and security is built on a network of trusted relationships involving government & industry**
- **Growing digital connectivity brings with it increased challenges and vulnerabilities**
- **Wider regional understanding needed on the shared cyber risk environment**
- **Cyber security defences may be robust, but some system breaches and break-ins are inevitable**
- **Insurance as a risk management tool**
- **Building more resilient systems: focus on response and recovery & re-establishing business continuity**



Regulatory Framework & Competition



- **Barriers to cross-border consolidation**
- **Emergence of complex group holding structures**
- **Varying interpretations of ownership & control restrictions, subsidies, fair competition**
- **Trade protectionist sentiments holding back some liberalisation efforts**
- **Cooperation, codeshares, joint ventures**
- **Competition authorities and antitrust immunity**

Global regulatory framework must keep pace with evolving market dynamics

Variable quality of regulatory oversight

- Safety culture is embedded throughout the aviation industry
- ICAO audits assess quality of national regulatory oversight
- Unnecessary duplication of oversight, multiple audits and sanctions add complexity
- ICAO 'No Country Left Behind' campaign aims to improve consistency and level of quality assurance

Industry is supportive of good regulatory oversight as quality assurance measure

Taxes & Charges



- **Aviation users pay in full for related infrastructure**
- **Rising taxes and user charges increase overall cost of air travel**
- **User charges should be transparent, cost-related, non-discriminatory & for current use**
- **Economic regulation of monopoly service providers often lacking**
- **Opportunistic taxes hurt the wider economy and inhibit job creation**



Passenger Facilitation



- **Challenges of processing 11 million daily passengers**
- **Opportunities to streamline airline, security & border control processes using biometric technologies**
- **Personal information transfers raise privacy issues**
- **Border control is a government function and costs must be borne by government authorities**

Balancing passenger facilitation and security needs

Closing thoughts

- **Aviation drives economic and social development**
- **Flying is safer than ever**
- **Governments need to rethink and apply collective risk-based approach to aviation security**
- **Future infrastructure planning is today's challenge**
- **Governments need to keep pace with changing market dynamics**
- **Asia Pacific airlines are shaping the future of global aviation**





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