

Global Trends in Aviation

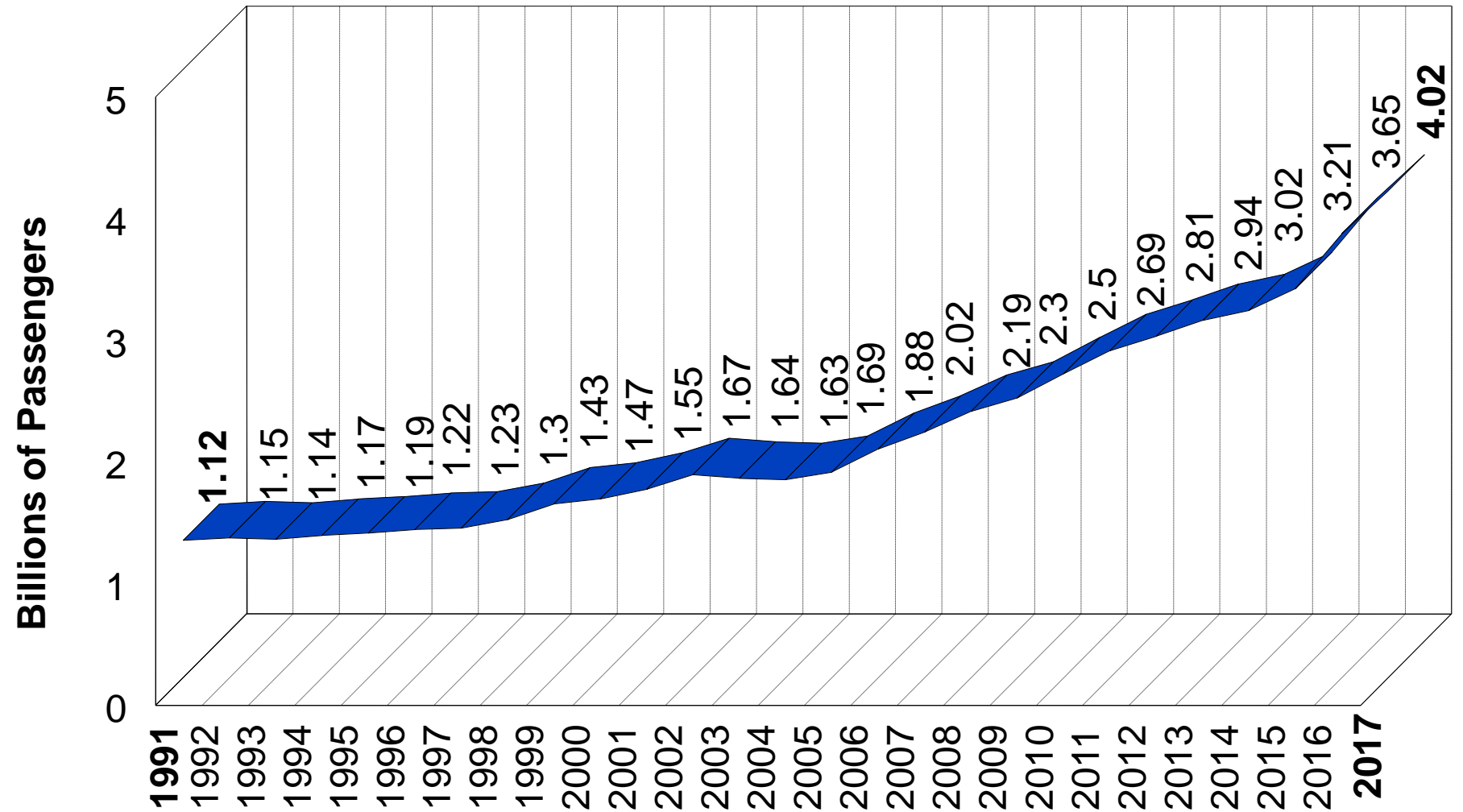


Dr Frankie O'Connell

Ninth Annual Tourism Policy Workshop

Dromoland, 2018

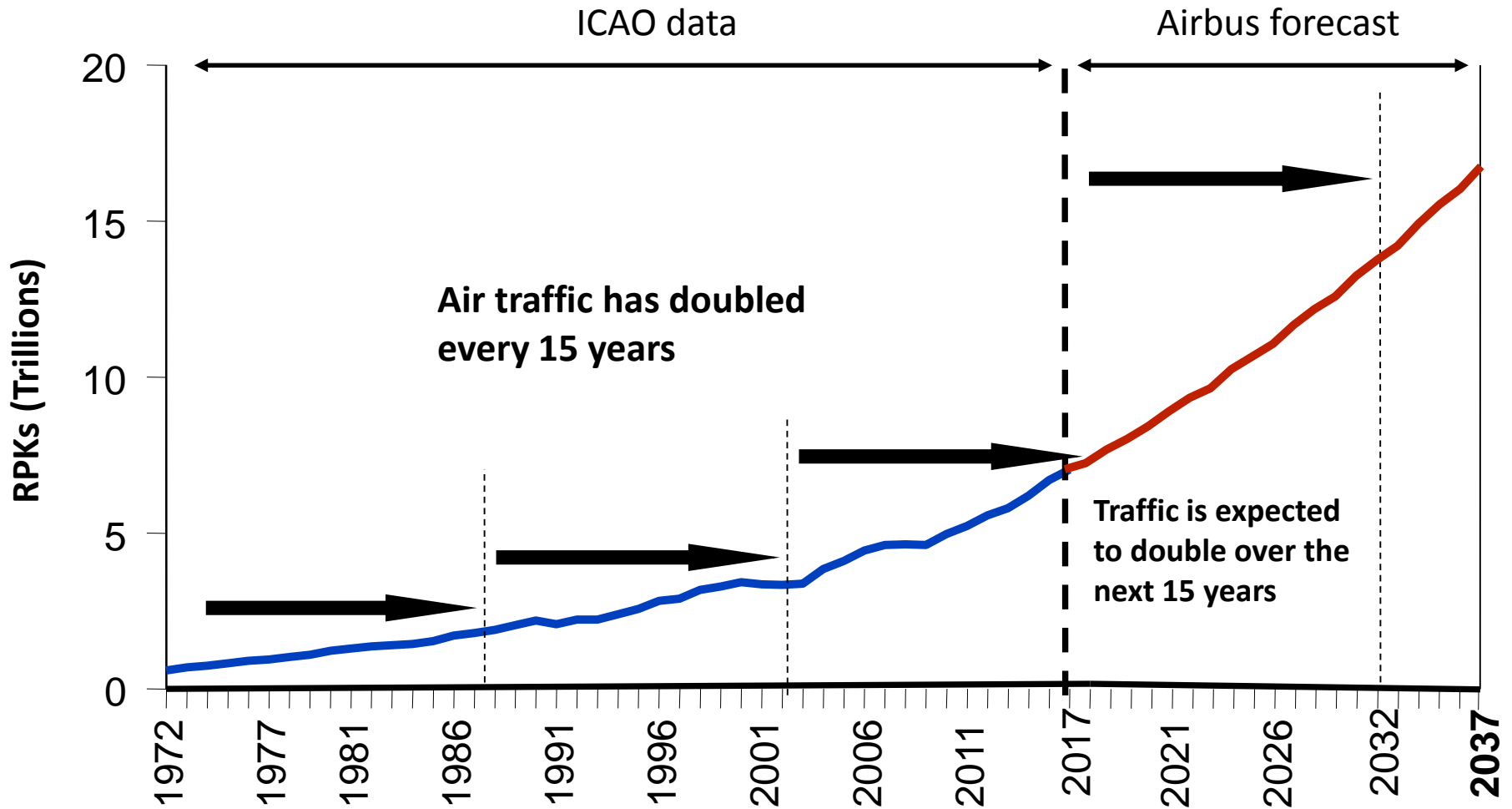
Number of passengers carried worldwide (1991 – 2017)





World Traffic Forecast (measured in Revenue Passenger Kilometres)

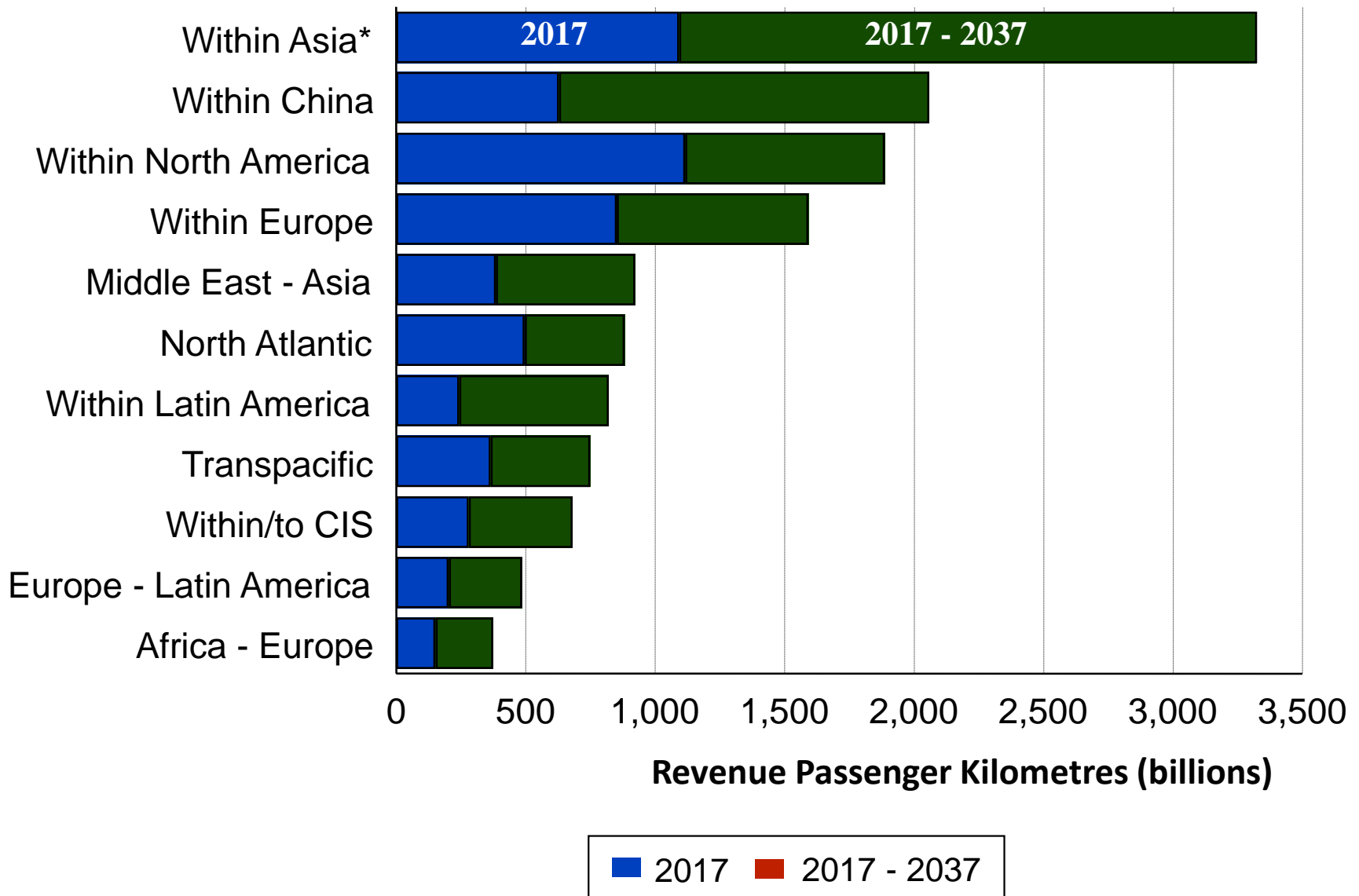
1972 - 2037



Source: IATA, ICAO, AEA, AAPA, Airlines for America, ALTA, AACO, AFRAA, Airbus, Boeing, O'Connell

Long term growth prospects of air traffic (2017- 2037)

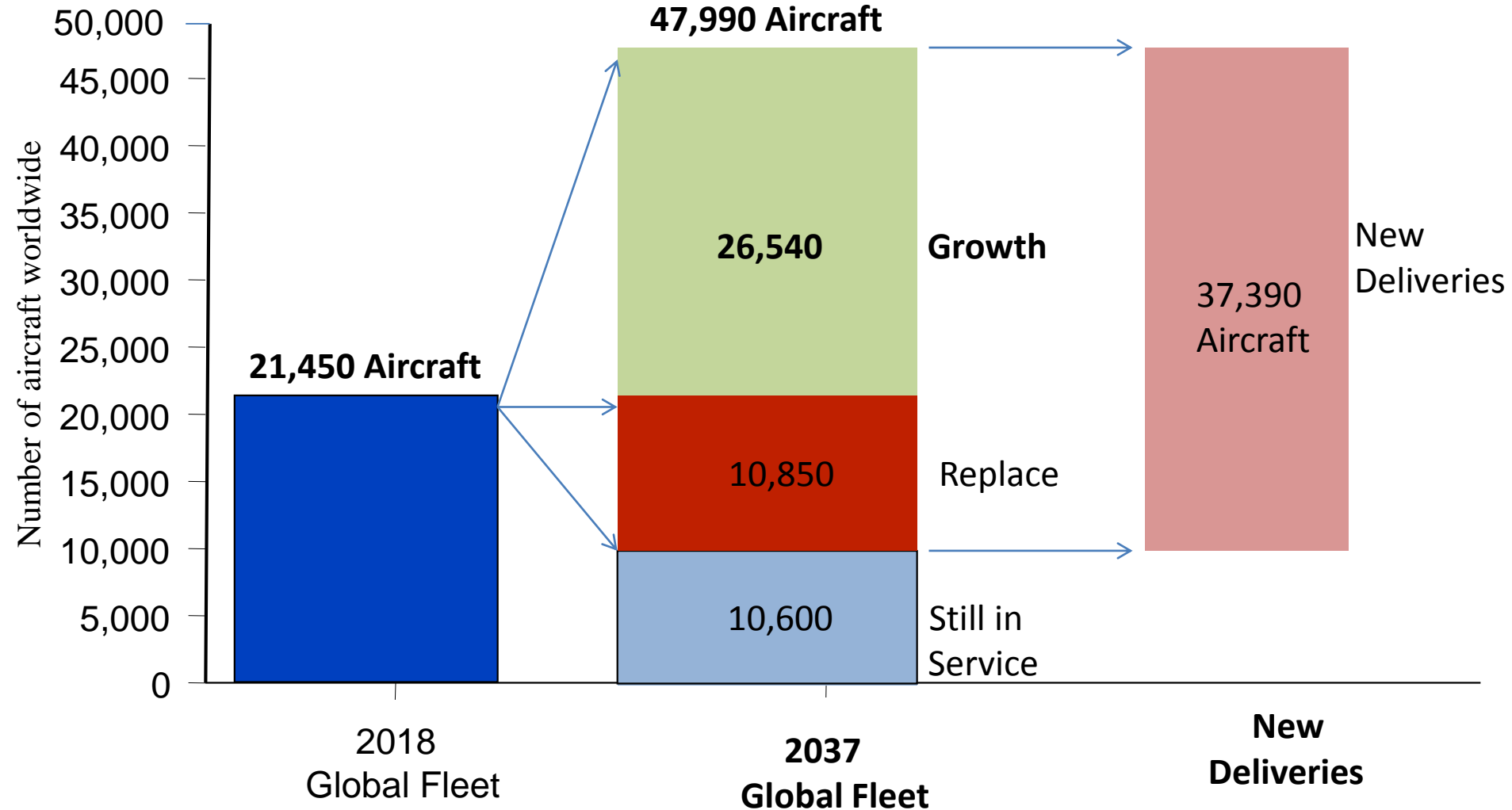
In terms of Revenue Passenger Kilometres (Demand)



* Does NOT include travel within China

Source: Boeing Market Forecast

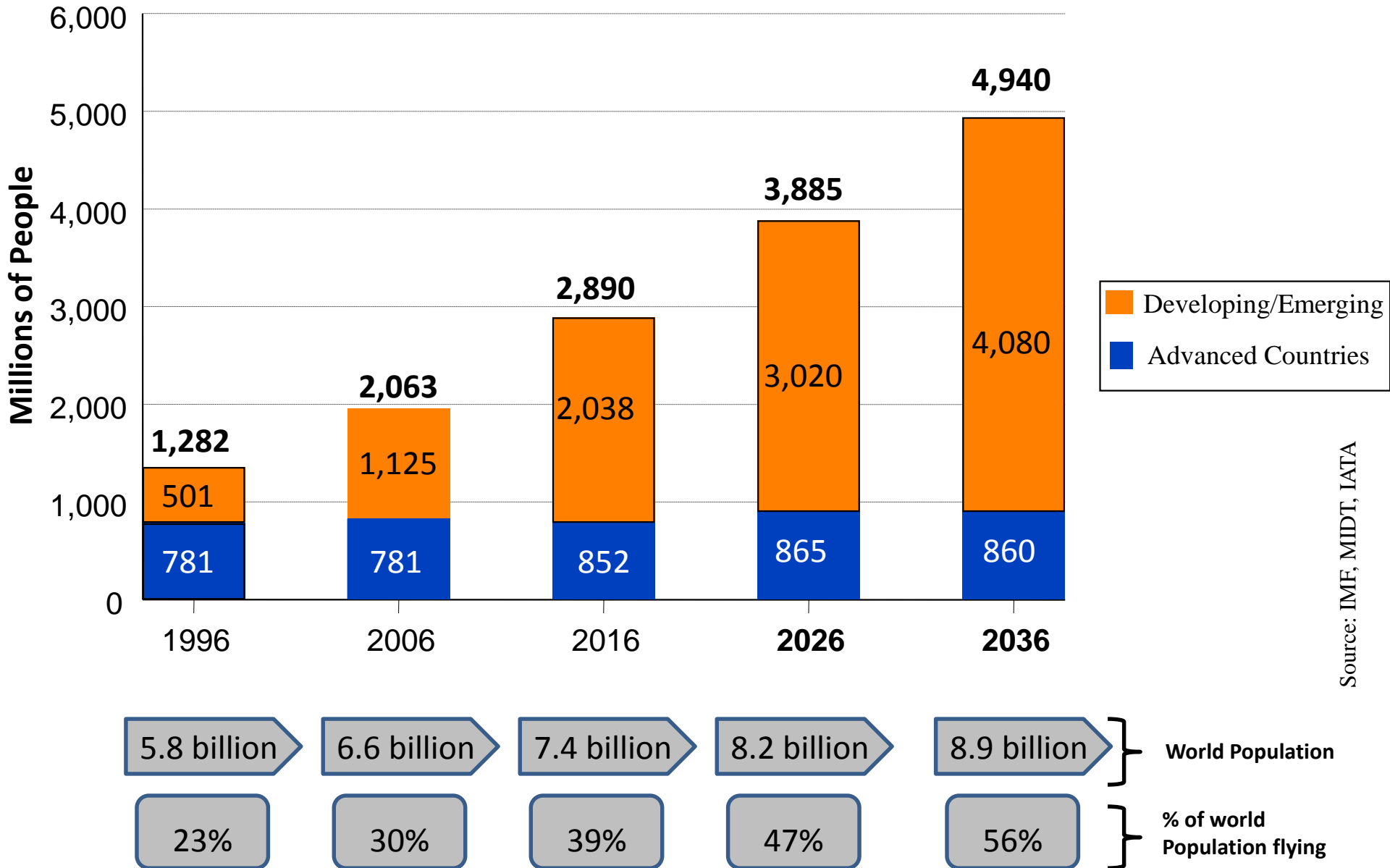
Fleet Evolution: 2018 - 2037



The number of outstanding firm orders at the start of 2018 was ~17,000 aircraft

Source: Airbus General
Market Forecasts 2018

Growth of the Middle Class Global Population 1996 - 2036



People Movement from Rural to Urban

% of people living in urban/suburban areas

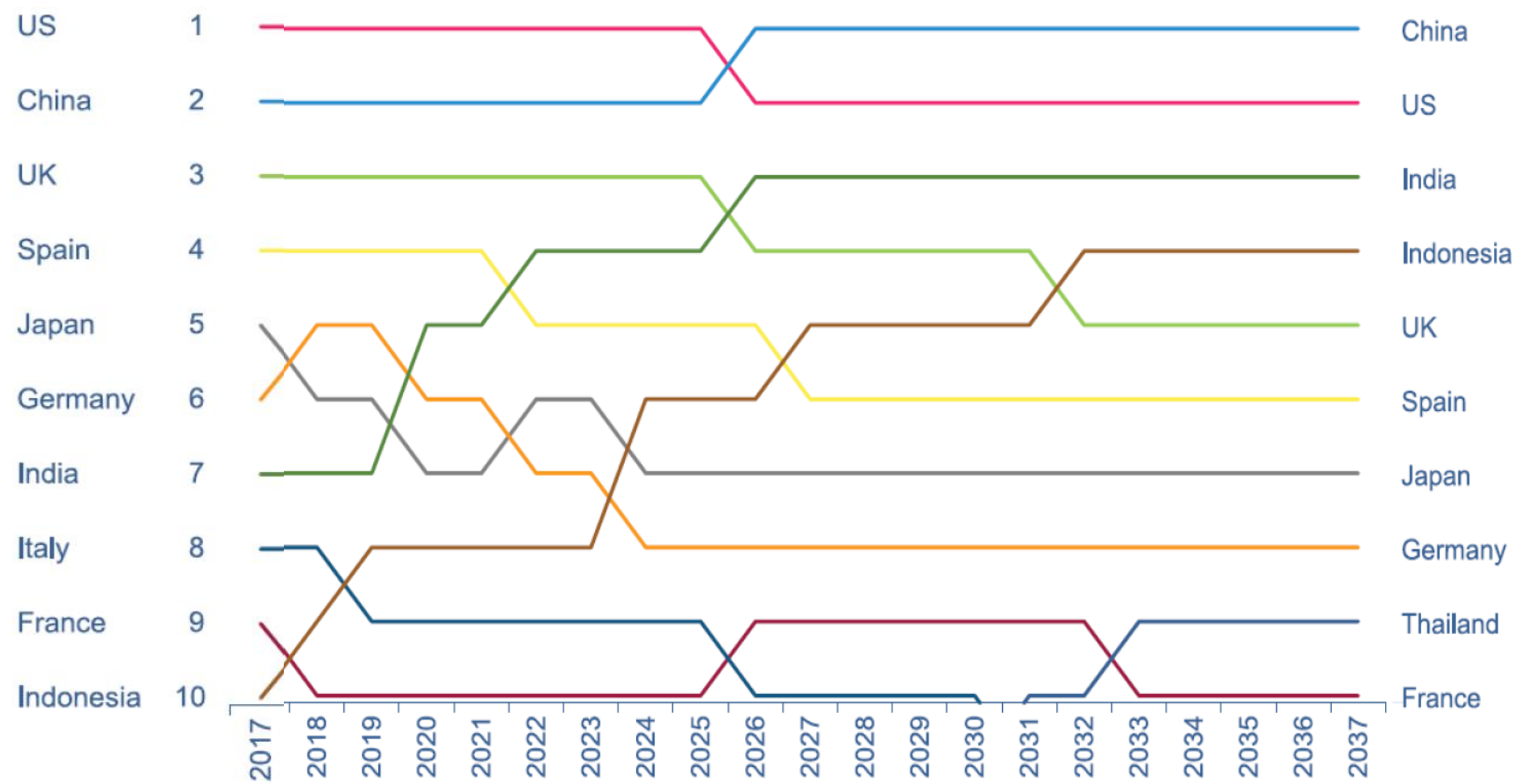
	1960	2017	Gain
South Korea	28%	83%	55 pts
Saudia Arabia	31%	83%	52 pts
Turkey	32%	74%	42 pts
China	16%	57%	41 pts
Brazil	46%	86%	40 pts
Indonesia	15%	54%	39 pts
Nigeria	15%	49%	34 pts
Thailand	20%	52%	32 pts
Japan	63%	94%	31 pts
Mexico	51%	80%	29 pts
Greece	56%	78%	22 pts
Russia	54%	74%	20 pts
Global Average	34%	54%	20 pts
Vietnam	15%	34%	19 pts
India	18%	33%	15 pts
Ethiopia	6%	20%	14 pts
United States	70%	82%	12 pts
United Kingdom	78%	83%	5 pts
Germany	71%	76%	5 pts

Most important Passenger Traffic - Country markets 2017 to 2037

Rank by size of O-D passenger flows in, out & within country



2017 rank

2037 rank



Connectivity around the world and its potential – 2018 data

International City Pairs	Daily Flights	China to India City Pairs	Daily Flights
New York – London	30	China – India?	6
Hong Kong – Taipei	39	Shanghai – Mumbai	0
Jakarta – Singapore	38	Beijing – Delhi	<1
Los Angeles – Mexico City	13	Beijing – Mumbai	<1
London - Dublin	52	Shanghai – Delhi	2
		Guangzhou – Delhi	2



There are only 6 daily direct flights joining 2.7 billion people between China and India

Social Media-Fuelled Tourism

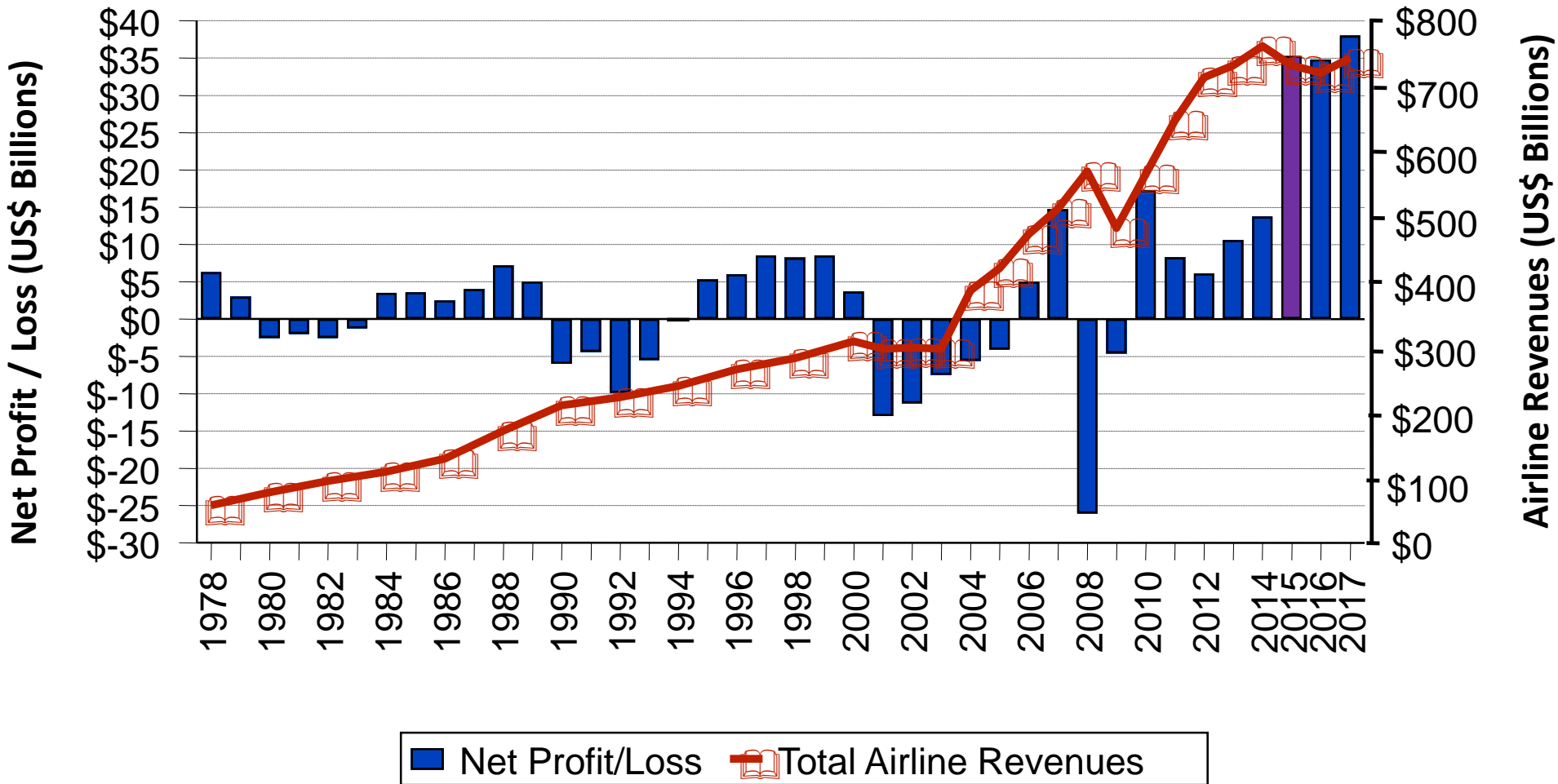


A new trend that is helping drive tourism is the growth in social media, and sights like Instagram, with more than 500 million active users popularising many sites through the power of the image.

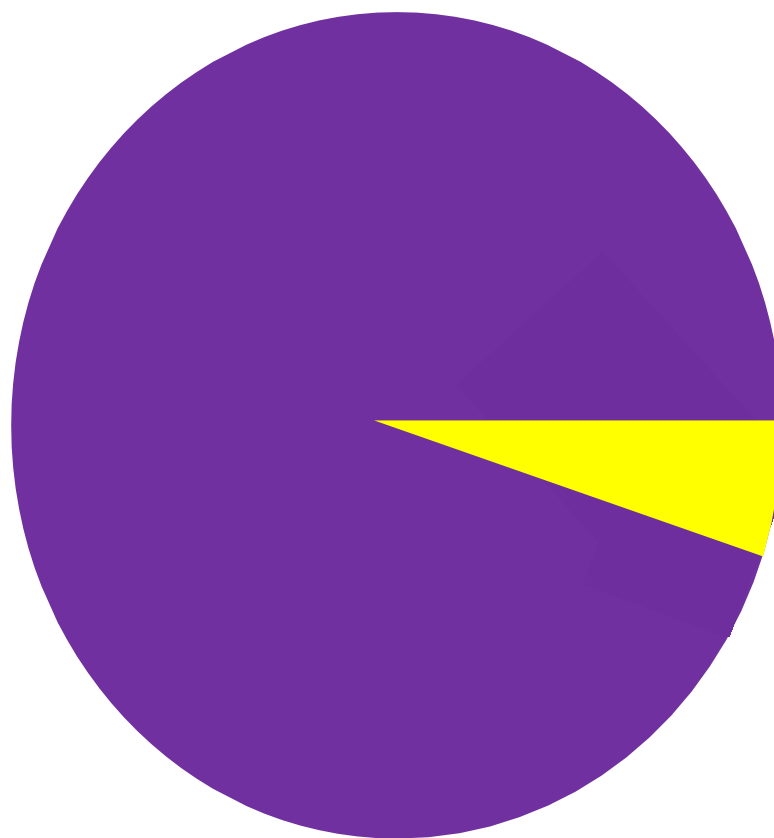
Now you're less than 10 clicks away from seeing an image on Instagram to purchasing a ticket to go there.

Net Profit/Loss and Revenues for World Commercial Airlines

1978 - 2017



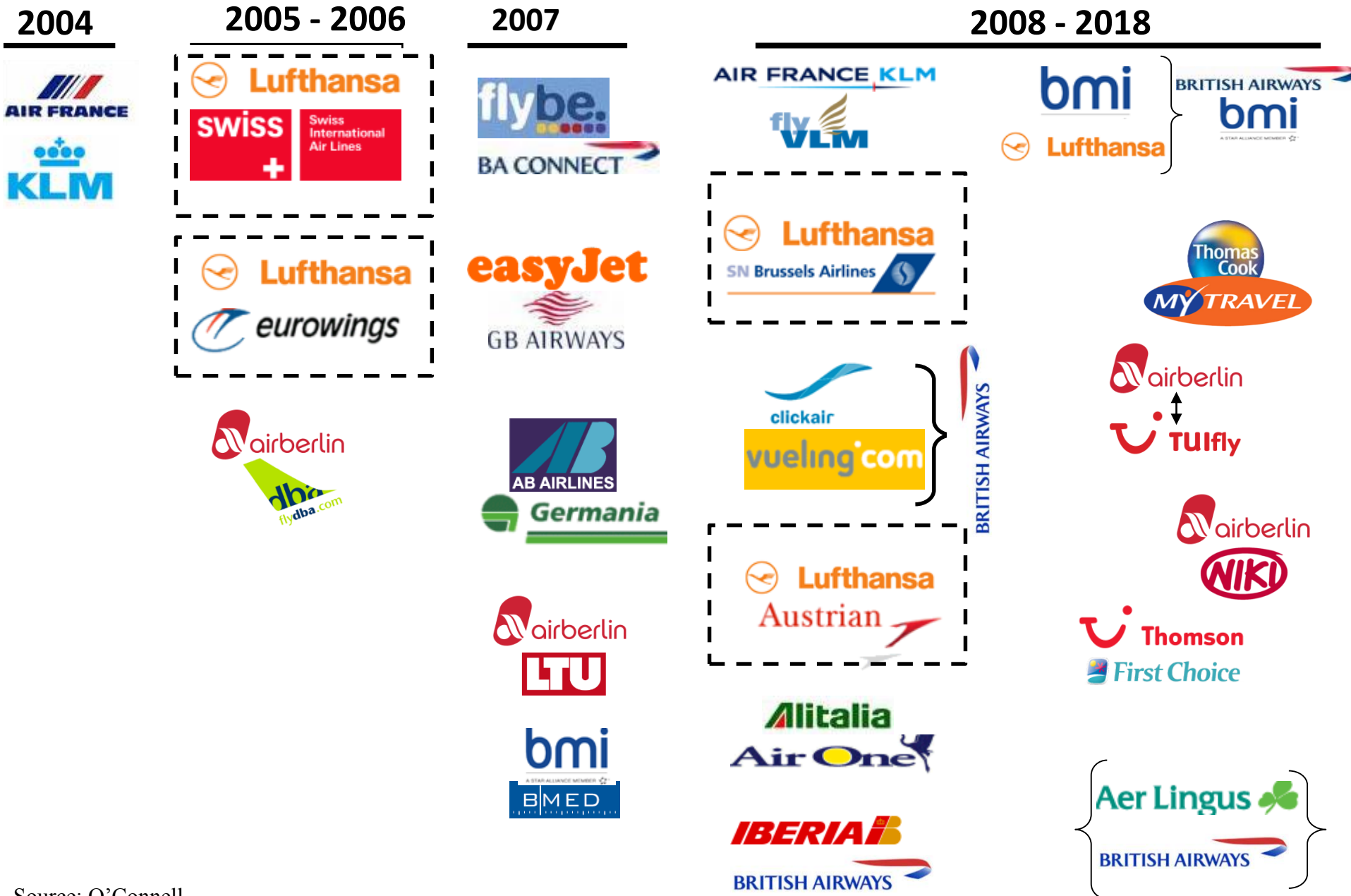
Proportion of Total Revenues to Total Net Profit (2017 data)



 **Total Revenues (\$754 billion)**

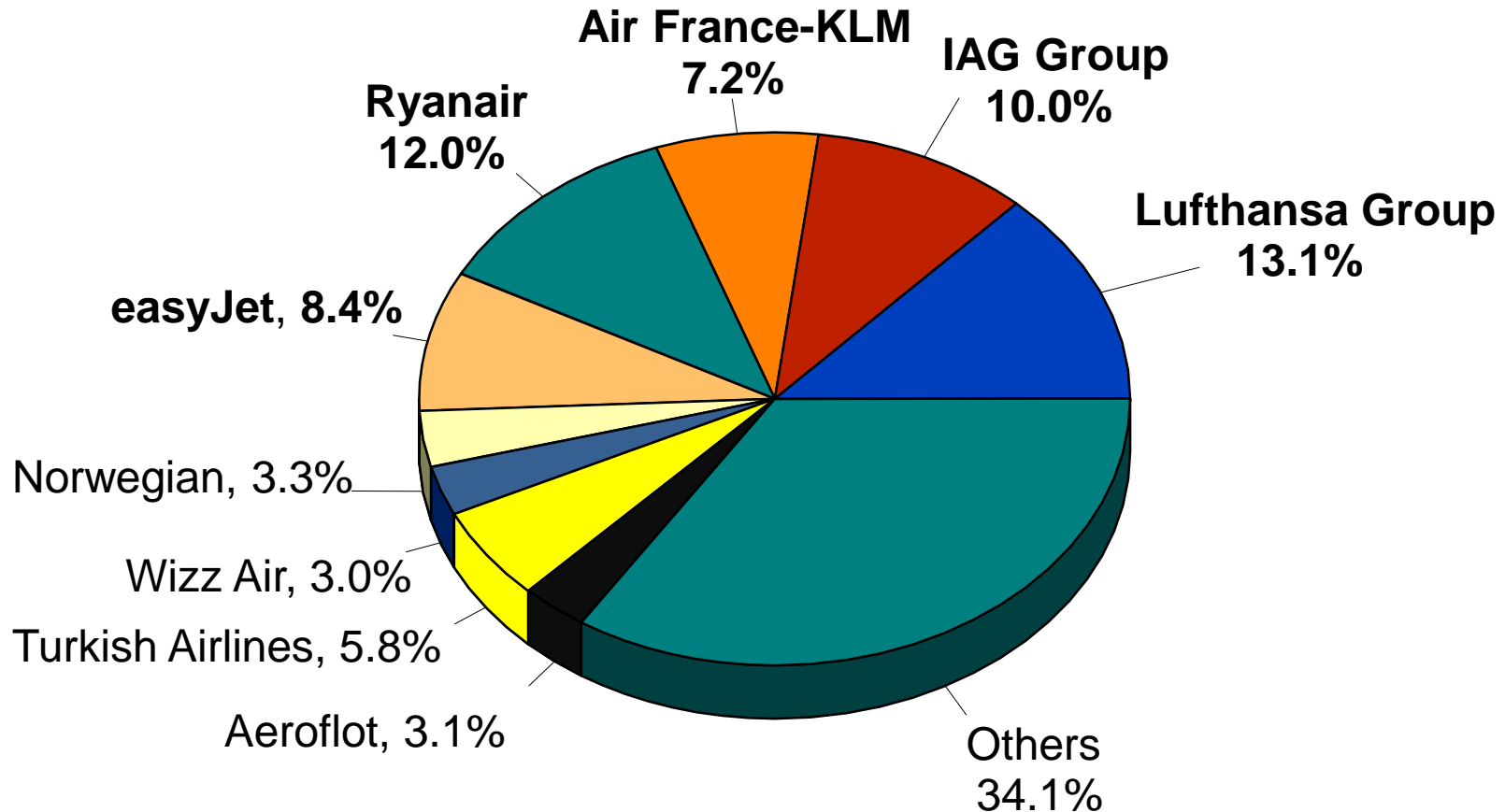
 **Total Net Profit (\$38 billion)**

Airline Consolidation in Europe



European market fragmentation - 2018

European market is still highly fragmented compared to the US

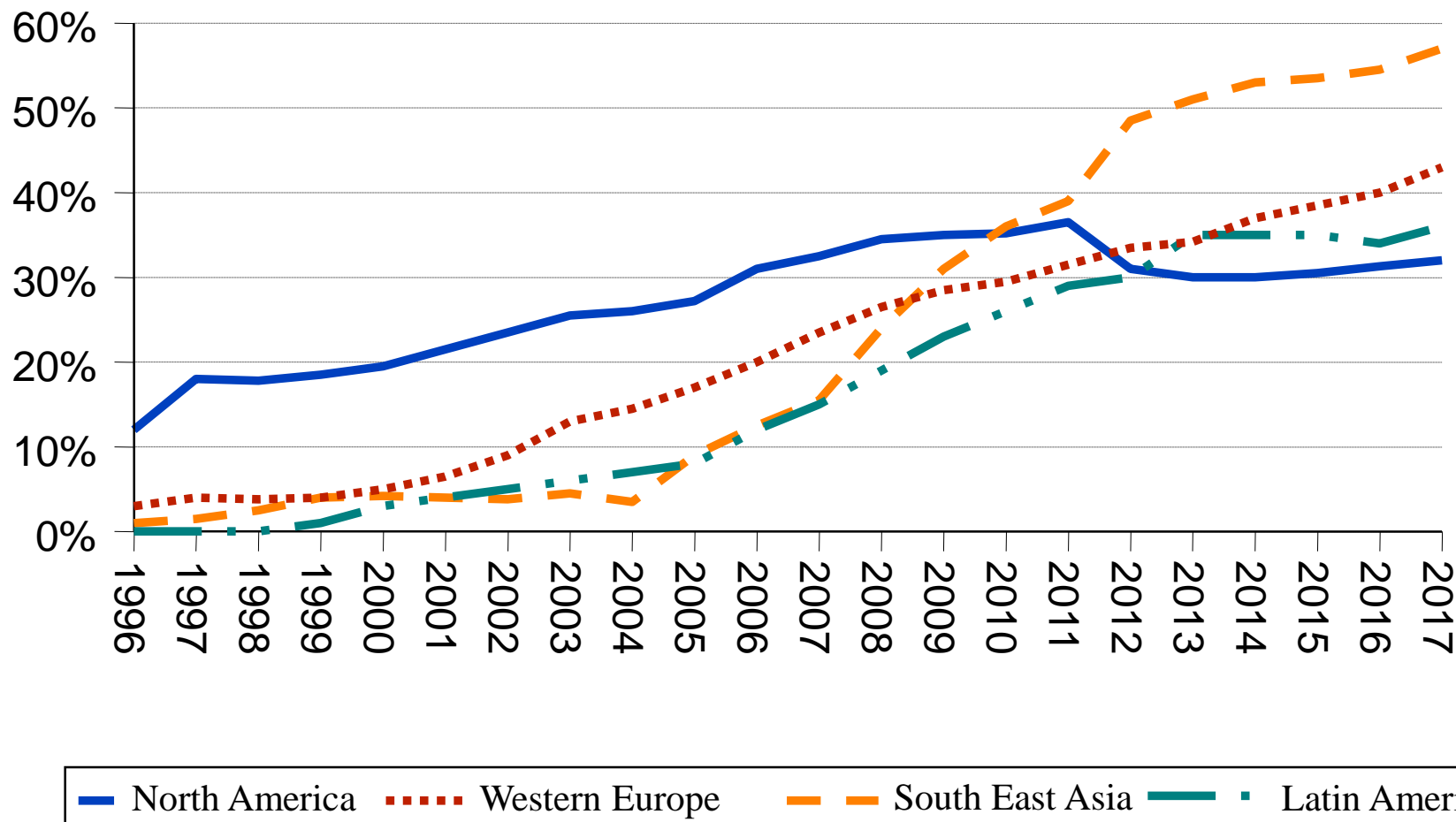


Top 5 Airlines have ~51% of EU market

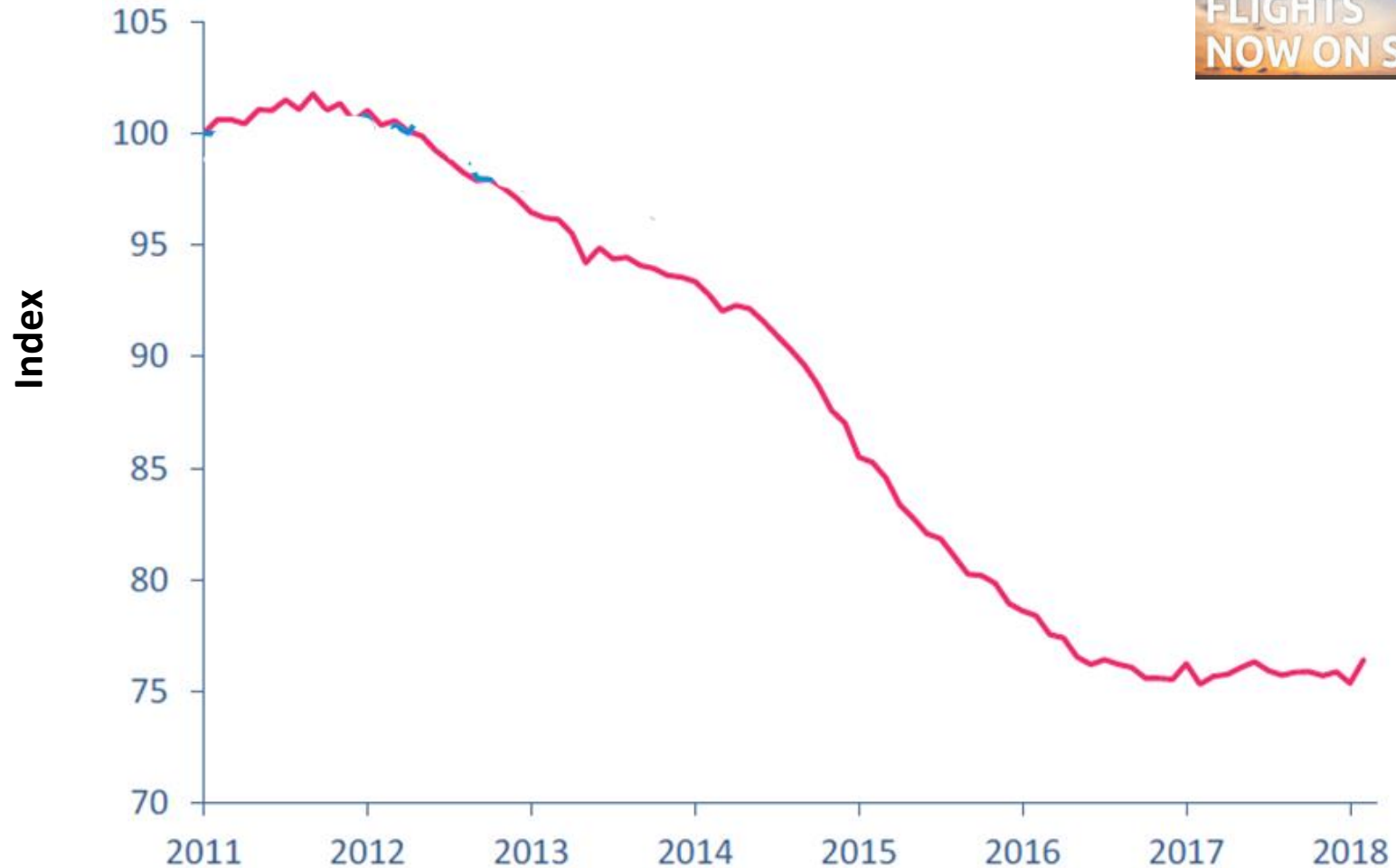
Major Issues

- Rising Oil Prices (\$74 per barrel October 2018 vs \$43 per barrel October 2016)
- **Falling Fares**
- Incessant competition
- **New airline business models (Long Haul LCCs increasingly entering global marketplace)**
- Currency fluctuations (27% of Ryanair's revenues is in UK£, while 40% of its Costs in US\$)
- Global Economic Cycles
- Seasonality in Leisure and Business travel
- Overcapacity – Too many seats being supplied to the market
- Labour unrest (Airline crew strikes – Ryanair, Air France, Lufthansa; ATC strikes - in France)
- Runways and Airport Terminals close to full capacity
- **Navigational Airspace approaching Full Capacity**
- Political and Regulatory Environment (Open Skies)
- Shortage of Skilled labour (in the next 20 years: 800,000 pilots; 750,000 maintenance technicians)
- Changes in consumer preferences, expectations, demographics
- Weather, natural disasters, pandemics and other external shocks
- Aviation Taxes
- **Industry Merging and development of Joint Ventures through Alliances and Equity Partnerships**
- **Brexit uncertainty** (easyJet purchased Austrian AOC; Ryanair bought UK AOC)
- Technology game changing initiatives (Block Chain)

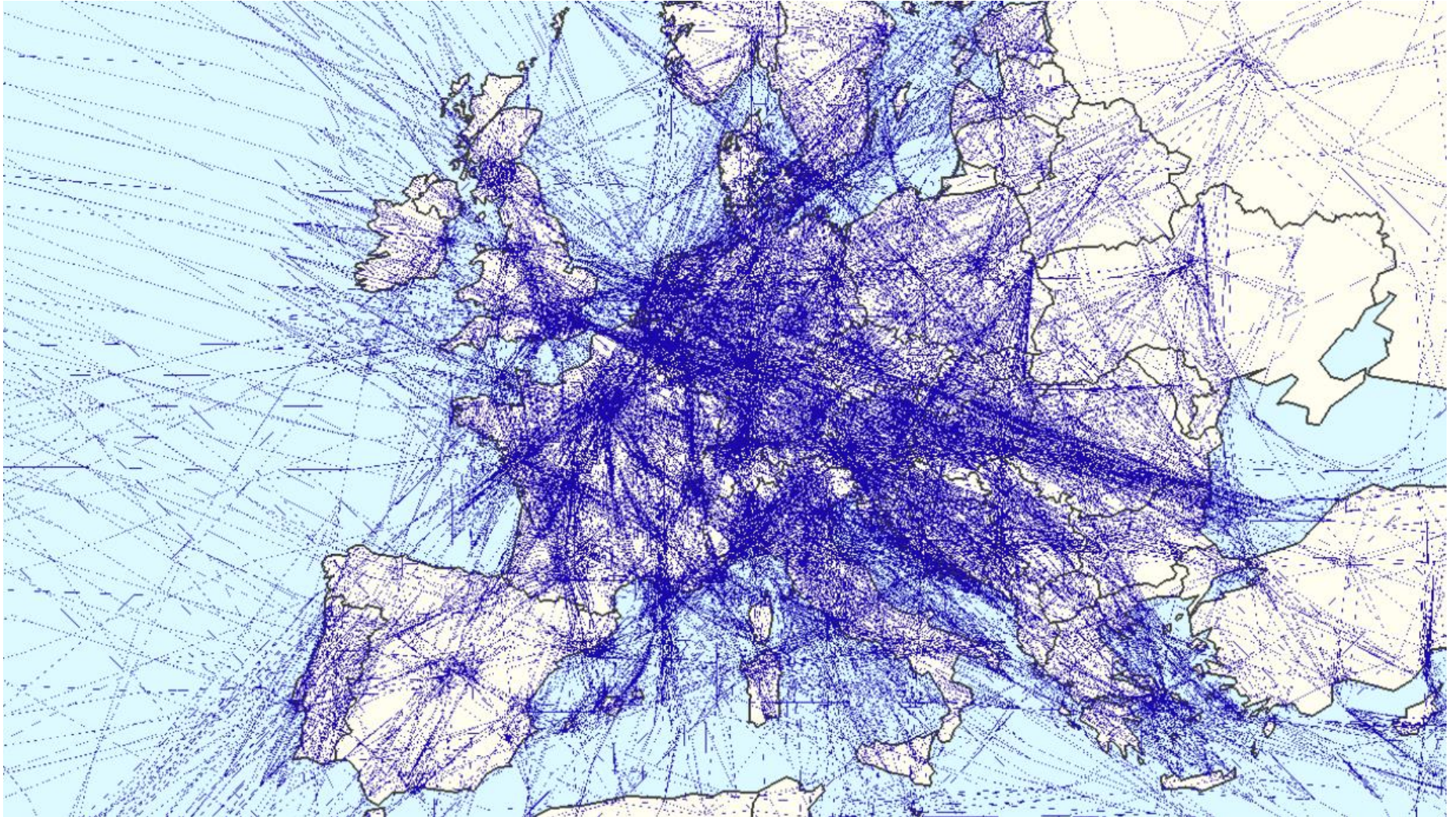
LCC Penetration in N. America, W. Europe and S.E. Asia 1996 - 2017



Global Passenger Yields (excluding surcharges & ancillaries)

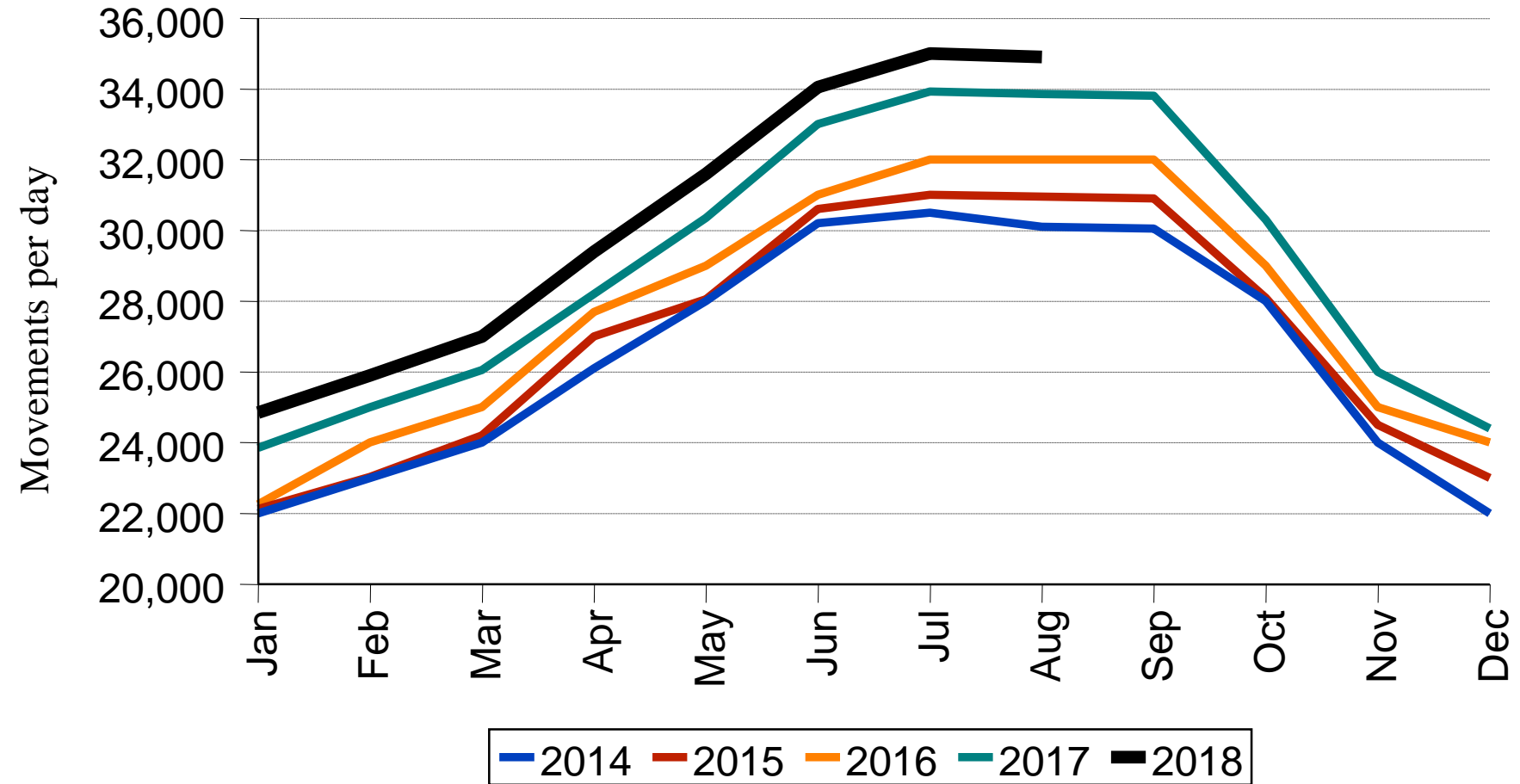


AIRSPACE CAPACITY

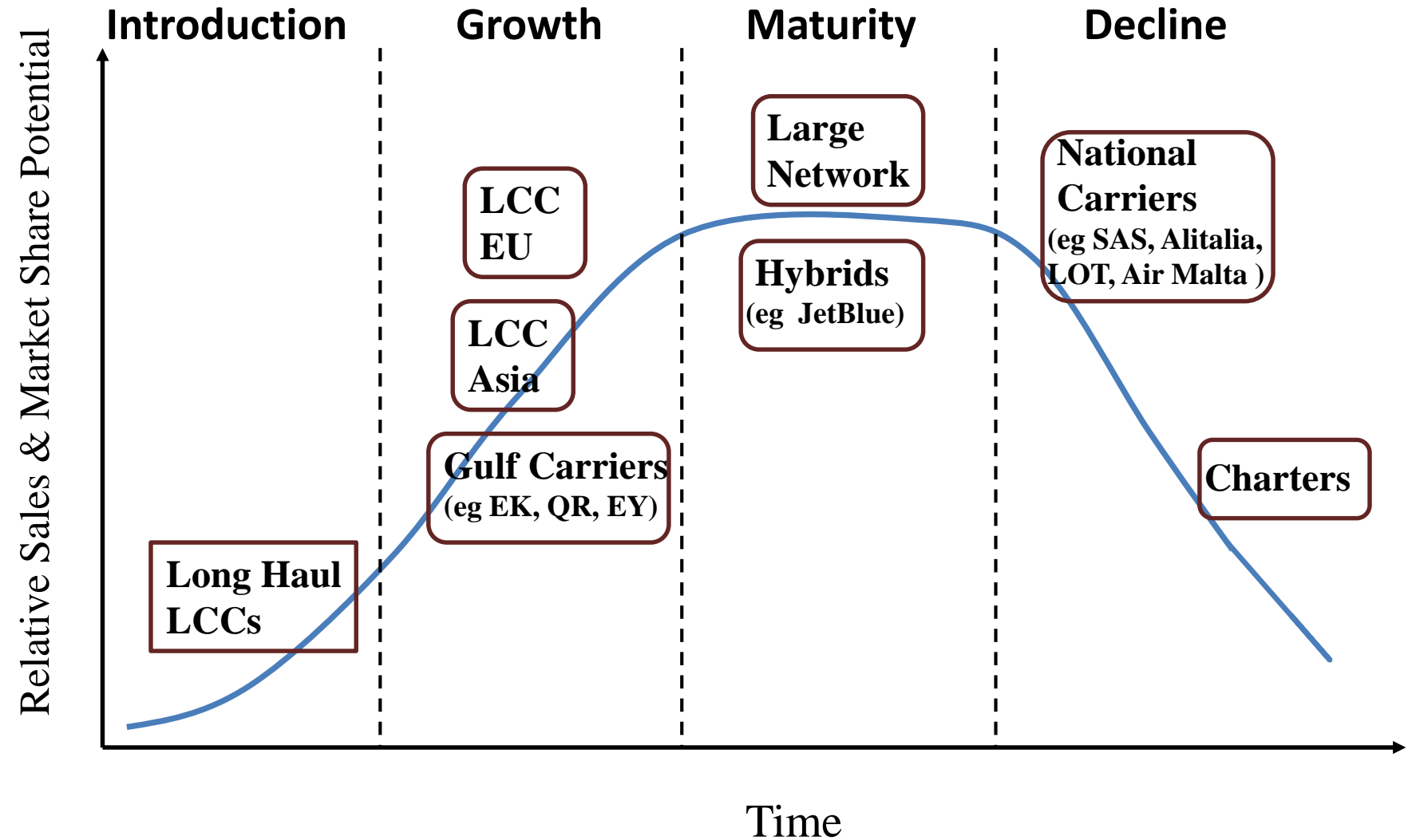


European Airspace is getting maxed out

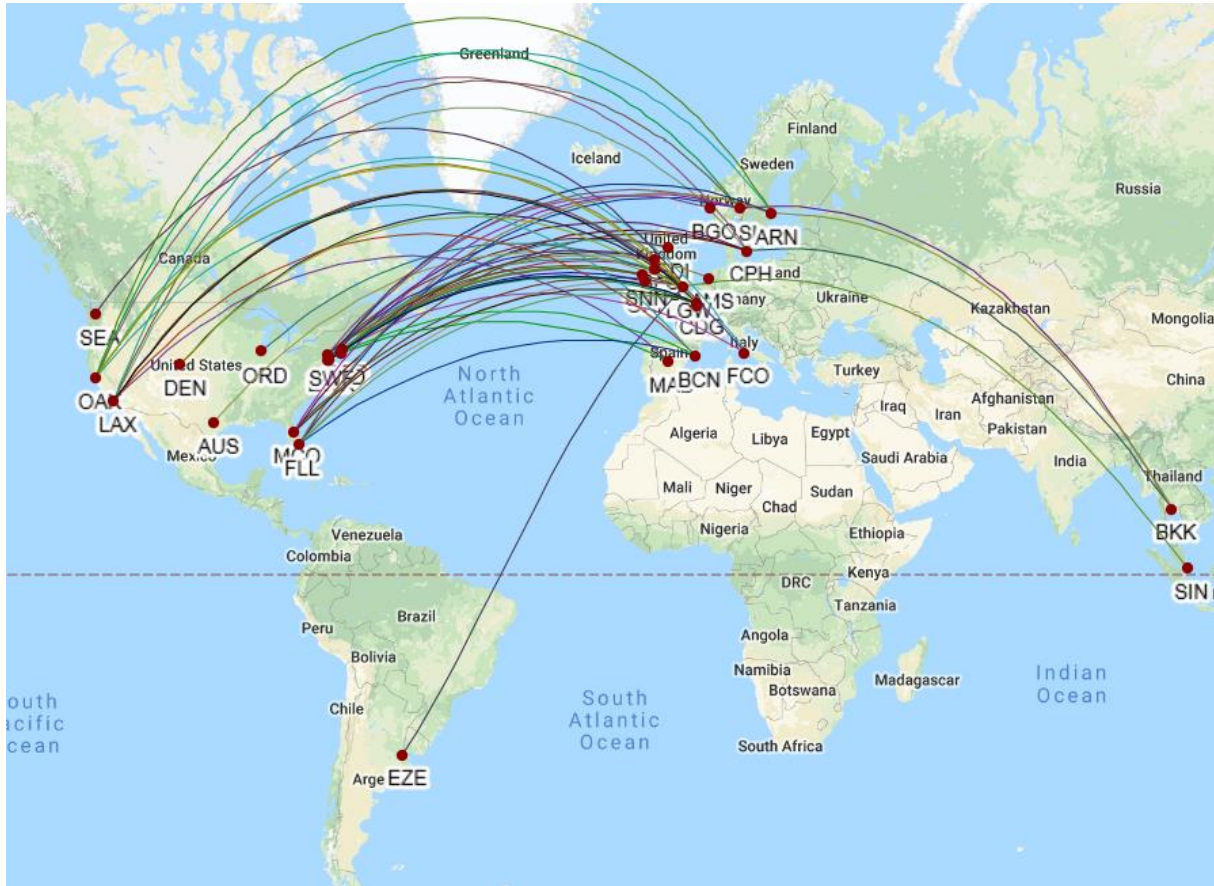
Average daily Traffic for the last 5 years



Airline Business Model Lifecycle



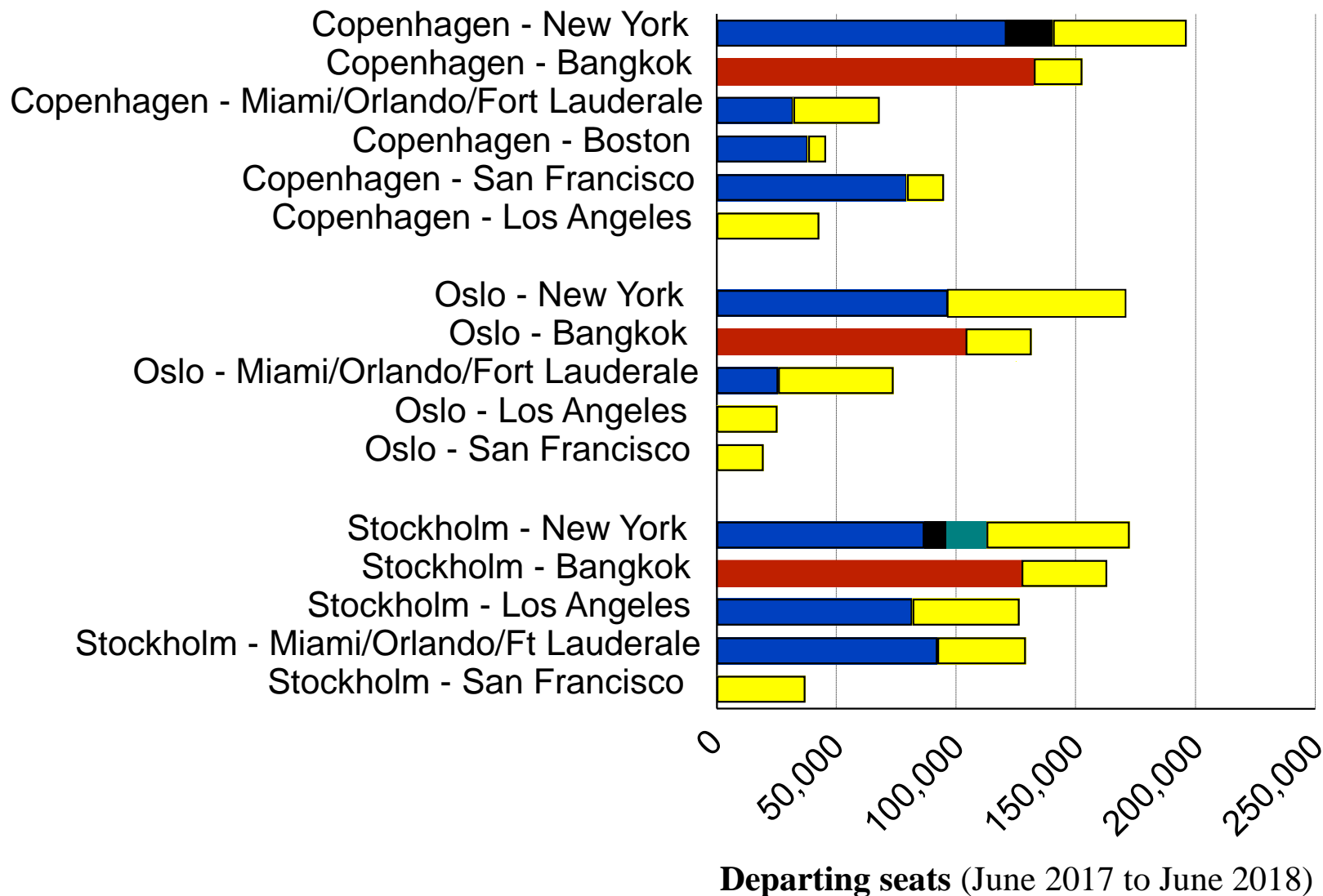
Norwegian Airlines International Route Network – Summer 2018



- 2014: 41 Flights a week across the Atlantic
- 2018: 215 Flights a week Across the Atlantic
- **However, there is limited Feed to Norwegian flights in North America**

From Scandinavia – Norwegian is Strong

Summer 2017 – Summer 2018



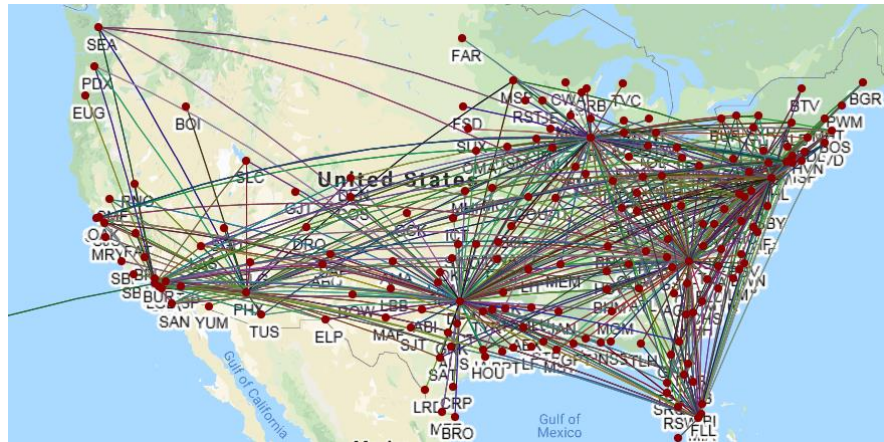
■ SAS ■ Thai Airways ■ Delta Air Lines ■ United Airlines ■ Norwegian

Are Airline Alliances becoming Fractured?

Are Airline Alliances becoming Irrelevant?



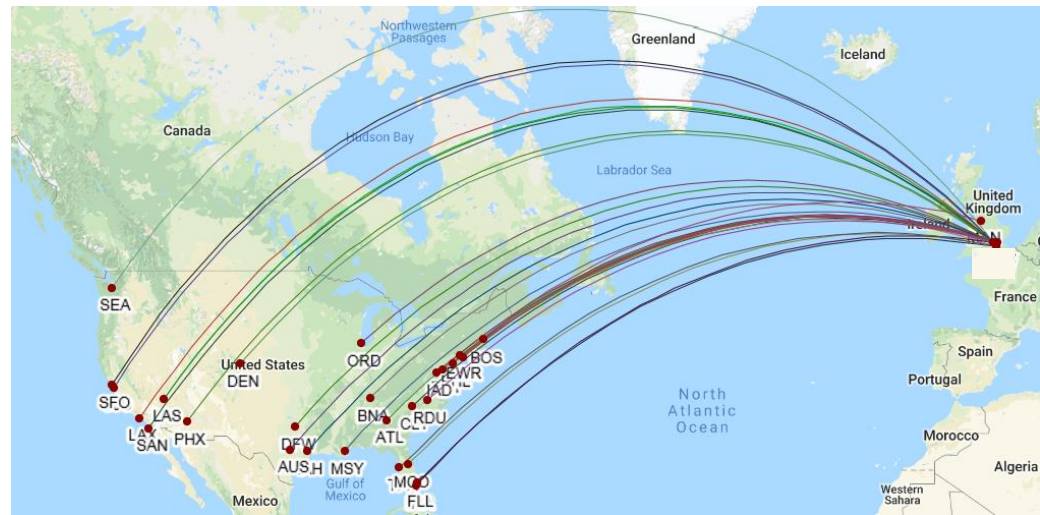
American Airlines domestic network



British Airways European network



Connectivity between BA and AA



Alliances are becoming increasingly Fractured

Joint Ventures & Equity Partners are becoming more relevant

Alliances/Cooperations



- Provides access to new markets without investing in aircraft
- Provides **Traffic Feed** at Partners hub airport which is redistributed along Partners network
- Overcomes bilateral restrictions
- Reciprocal FFP
- Synergies: Joint Purchasing, Co-Location at Airports, Joint Products
- **Alliances have Matured**
- **Existing Alliances provide limited additional potential for members**

Joint Ventures



- Increasing number of airline JVs being created
- Sharing Costs and/or Revenues on Routes
- Co-ordination of Schedules and Pricing Thru Anti Trust Immunity
- Metal Neutral: irrelevant which carrier is used
- Emirates who is **not** in an Alliance is generating value from JV with Qantas
- Joint Ventures are becoming important where 100% merger is not possible due to ownership restrictions

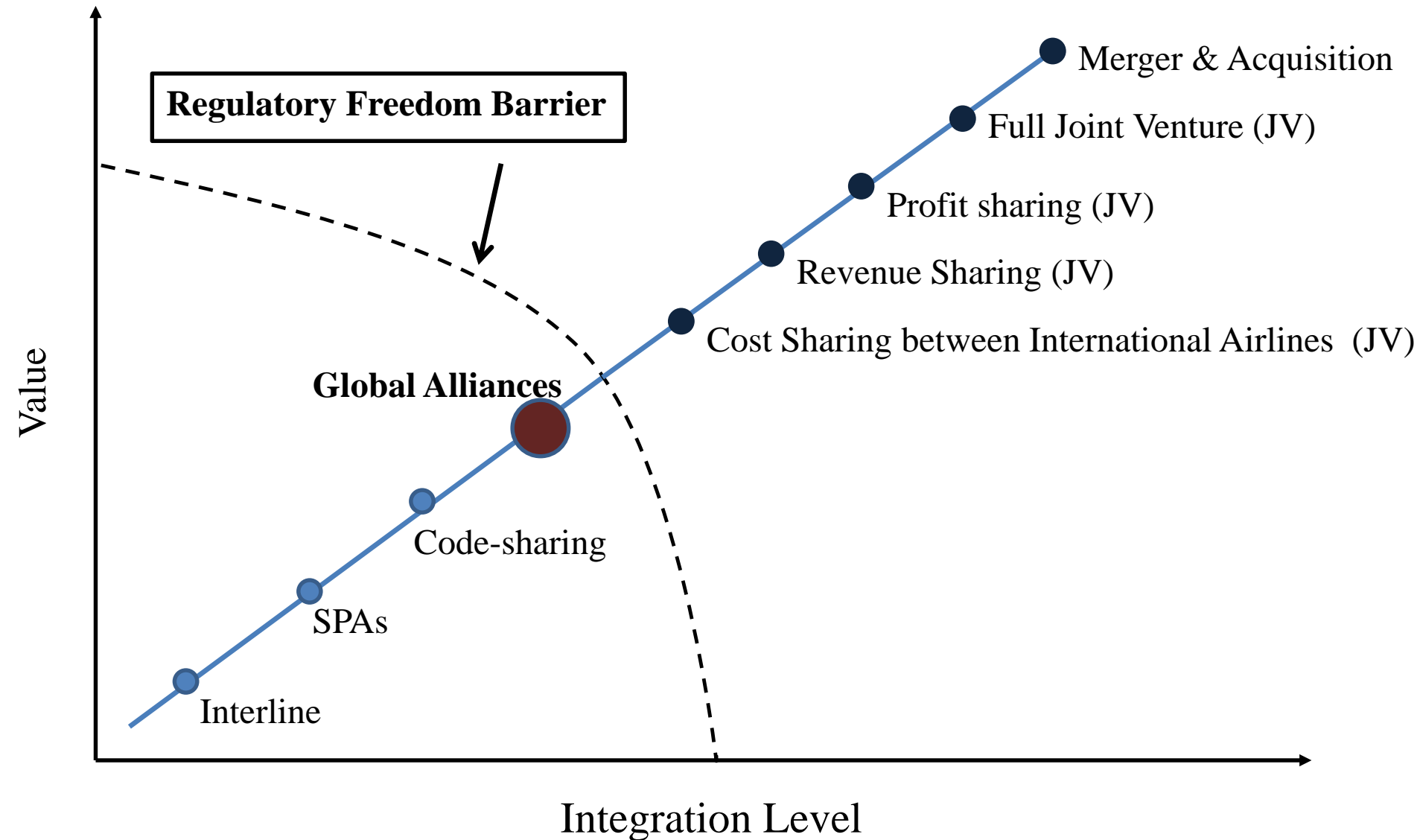
Equity Partnerships

(eg Delta, Qatar and Etihad Airways)



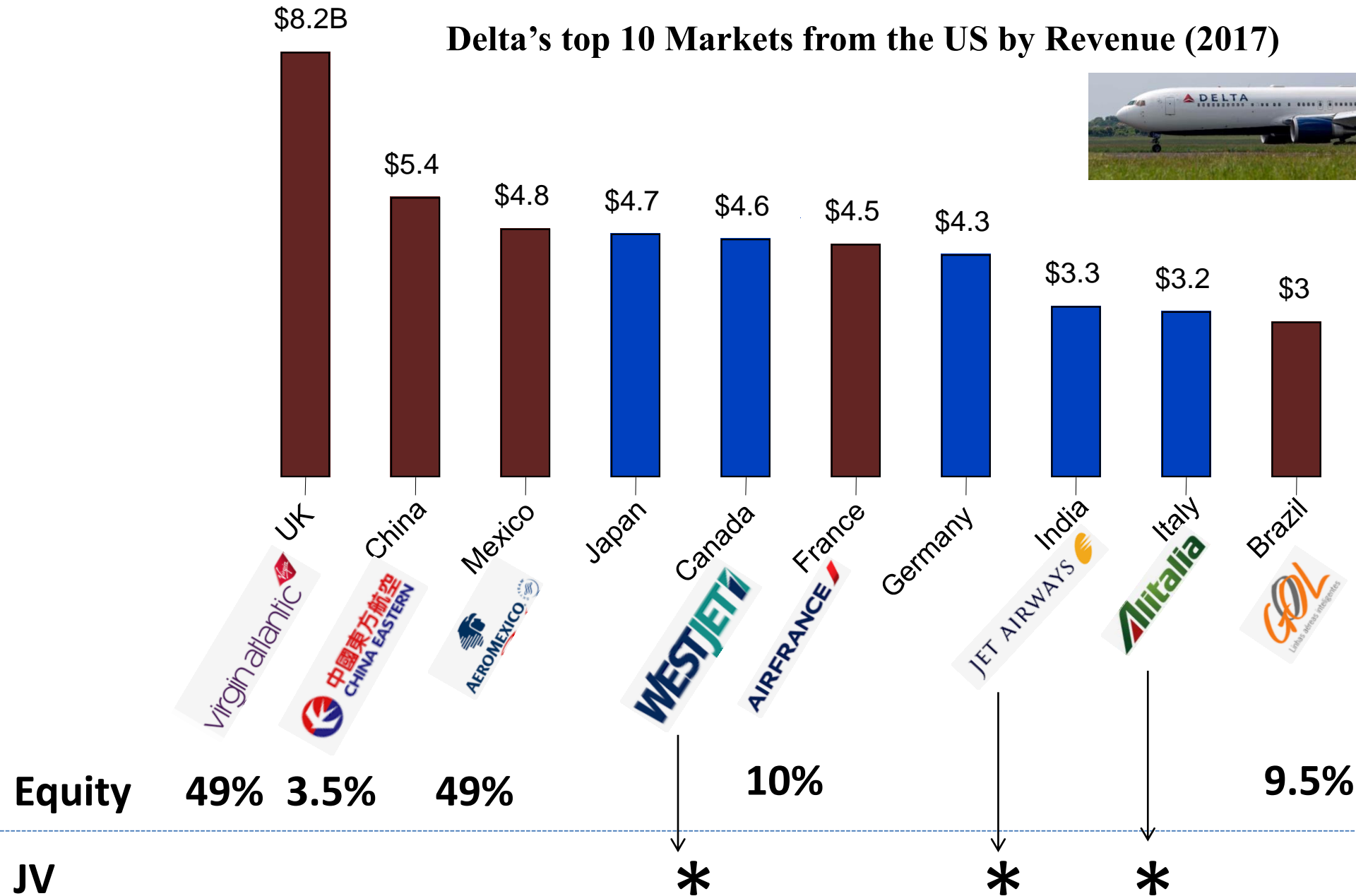
- Cross-border consolidation remains very challenging
- Equity partnerships prioritises items such as Traffic Feed, Market Access, Connectivity over Alliance partners
- Builds Synergy (eg Joint Maintenance)
- Allows for Management Influence

Airline Business Model Lifecycle

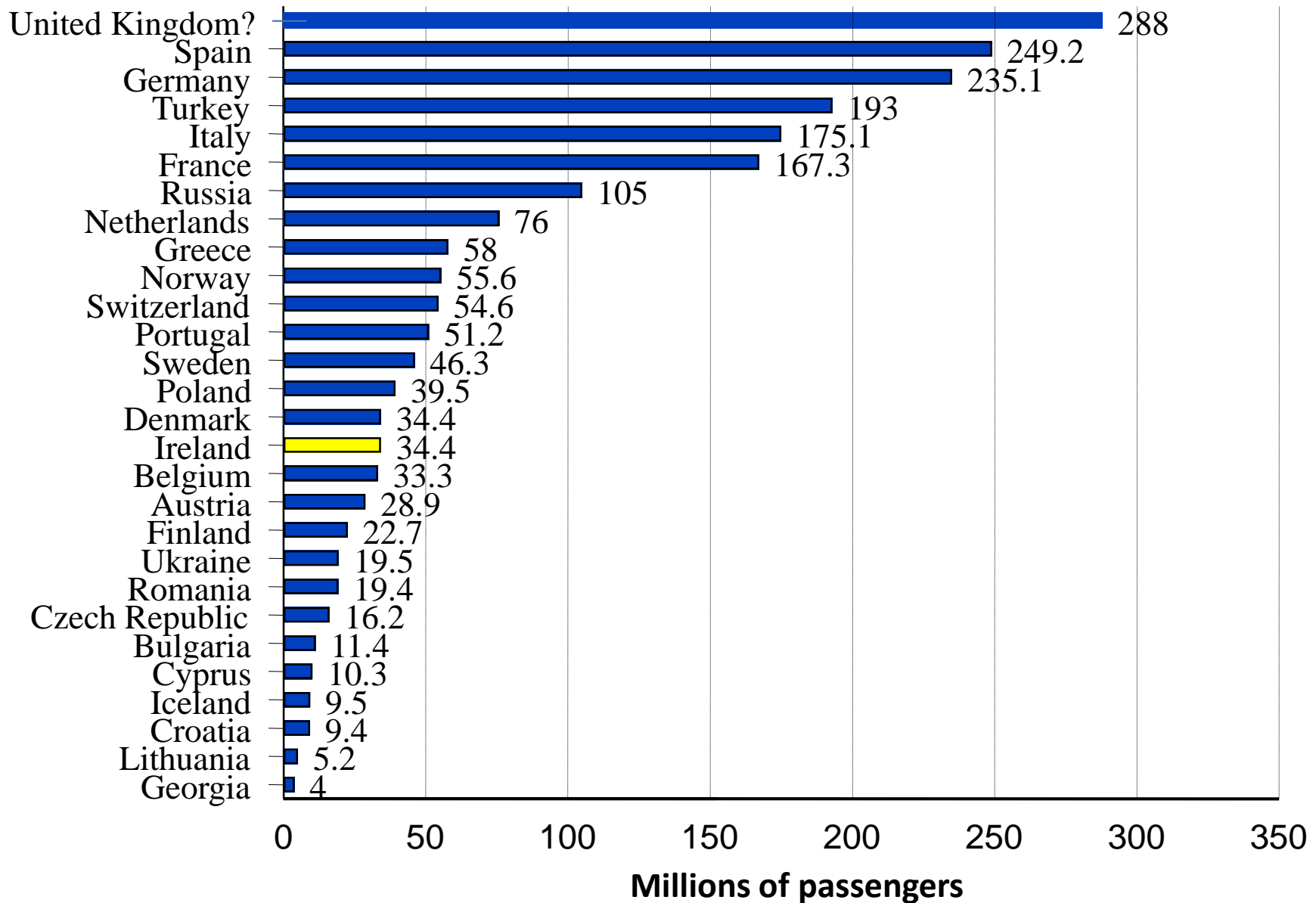


Delta Air Lines partnership based on its top International markets

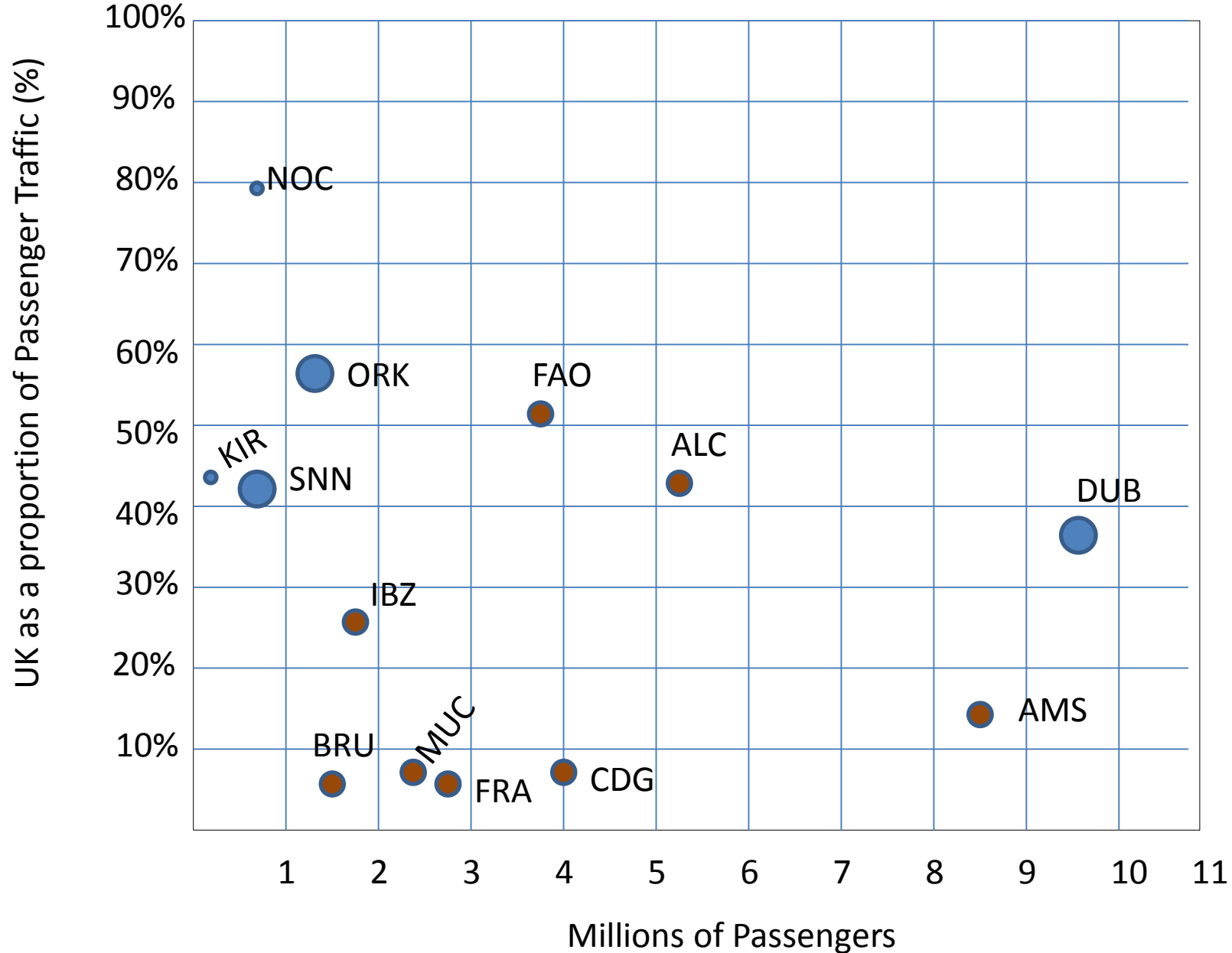
Delta's top 10 Markets from the US by Revenue (2017)



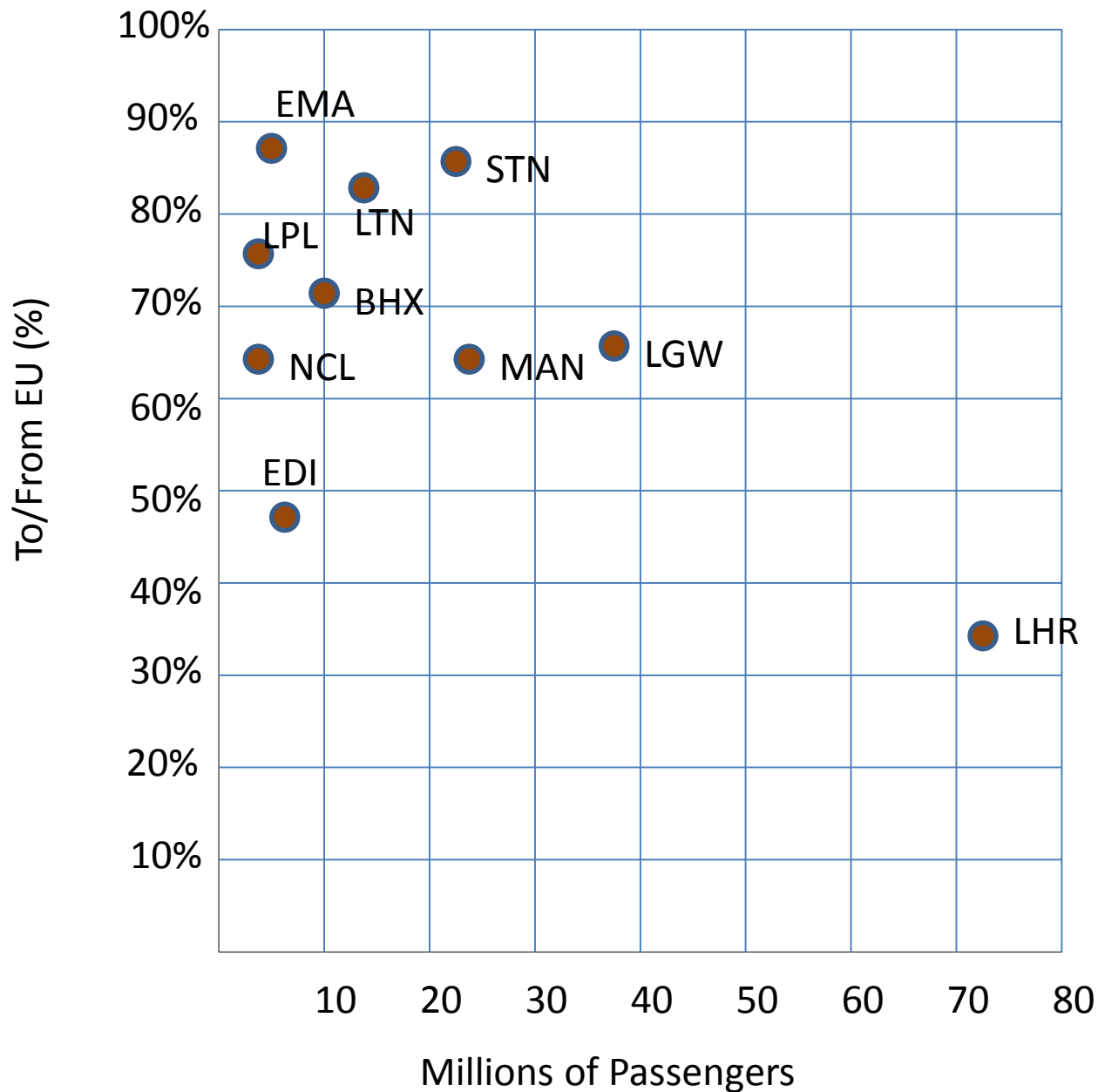
European Airport Traffic Statistics by Country (EATS) - 2017



Dependence of UK by European airport (2017)



Dependence by UK airport on “EU 27” pax flows



Conclusion

- Traffic is doubling every 15 years
- Global Markets are shifting fast with large Middle Class demographics
- Many industry challenges: Tight Financial Margins, Consolidation, Long-Haul LCCs, Bottlenecks, Falling Fares
- Joint Ventures and Equity Partners are increasing in importance
- Large impact on UK regional airports with Brexit
- Large impact on Irish airports with Brexit



Thank you all very much

Global Connectivity to the UK – Summer 2018



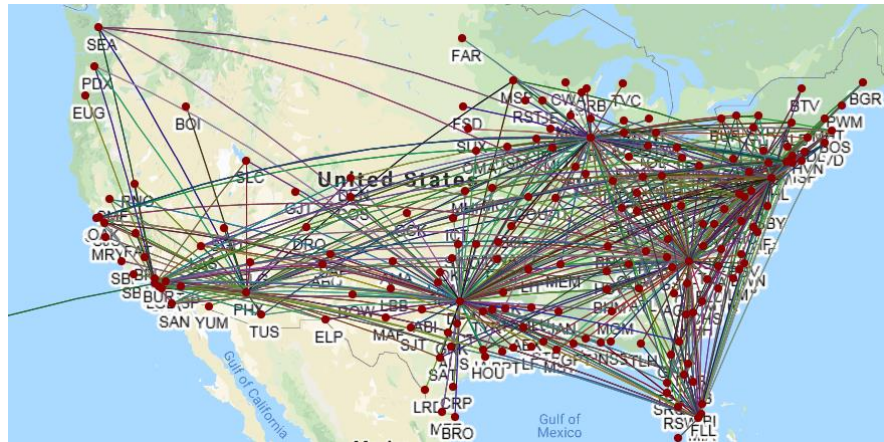
The UK was served by 17,520 flights a week or 3.2 million seats a week in Summer 2018

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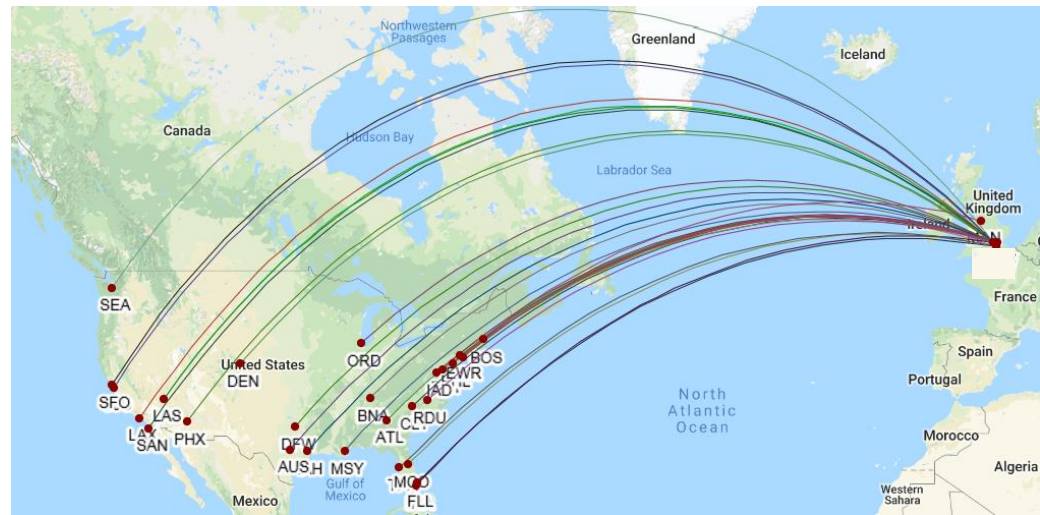
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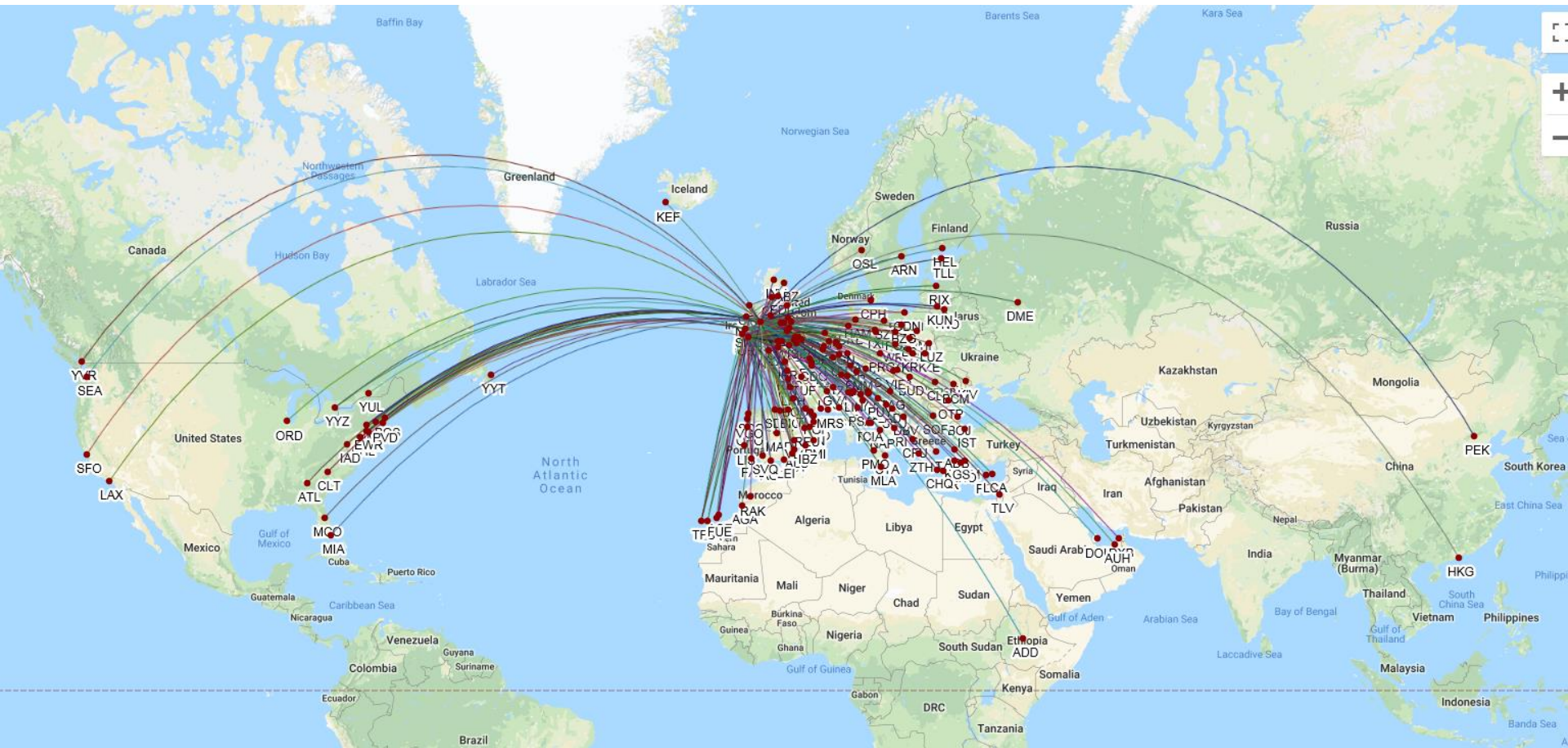
Global Connectivity to the UK – Summer 2018



The UK was served by 17,520 flights a week or 3.2 million seats a week in Summer 2018

84% of total flights came from the EU or 78% of the seats came from the EU

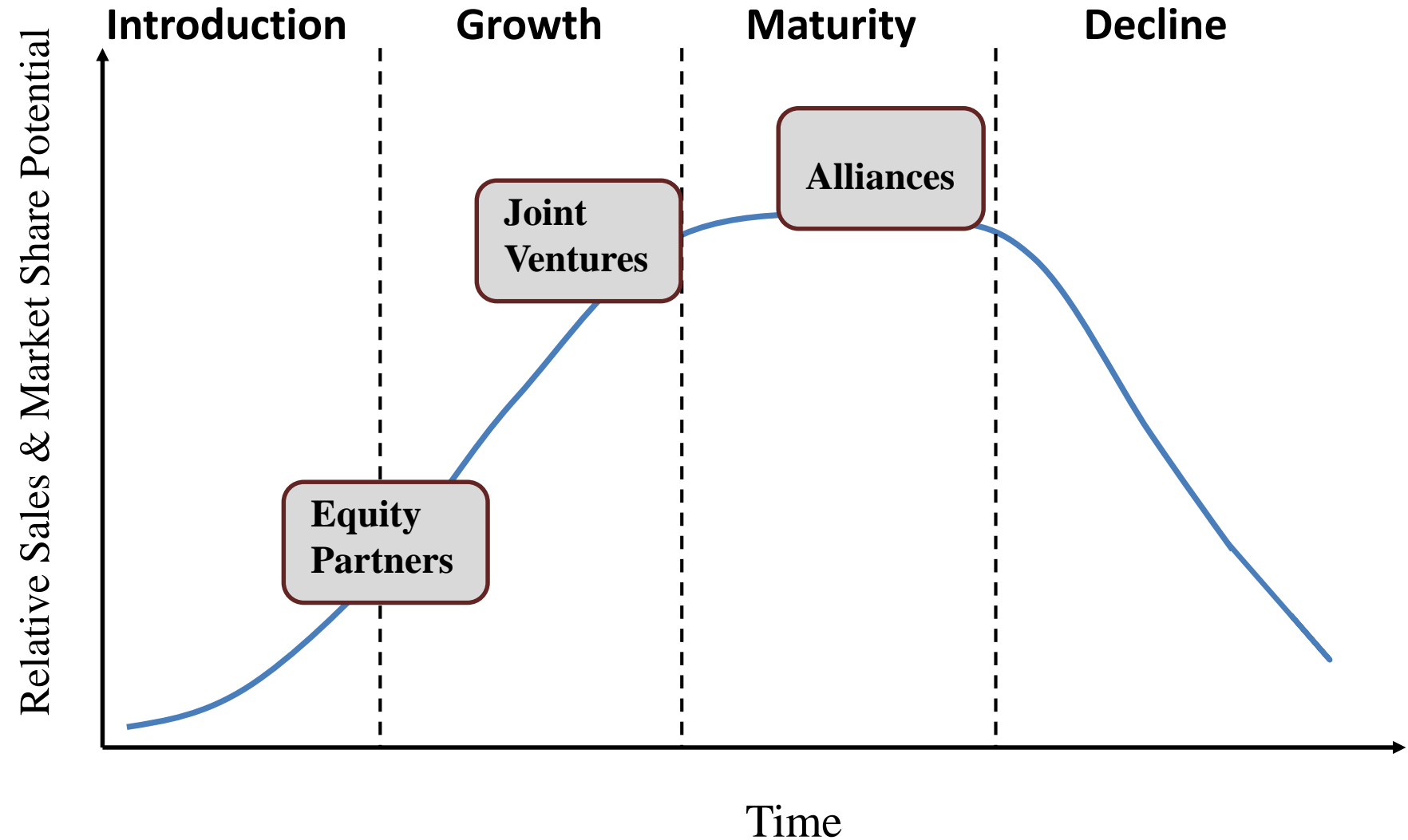
Global Connectivity to Ireland – Summer 2018



Ireland was served by 2,870 flights a week or 487,000 seats a week in Summer 2018

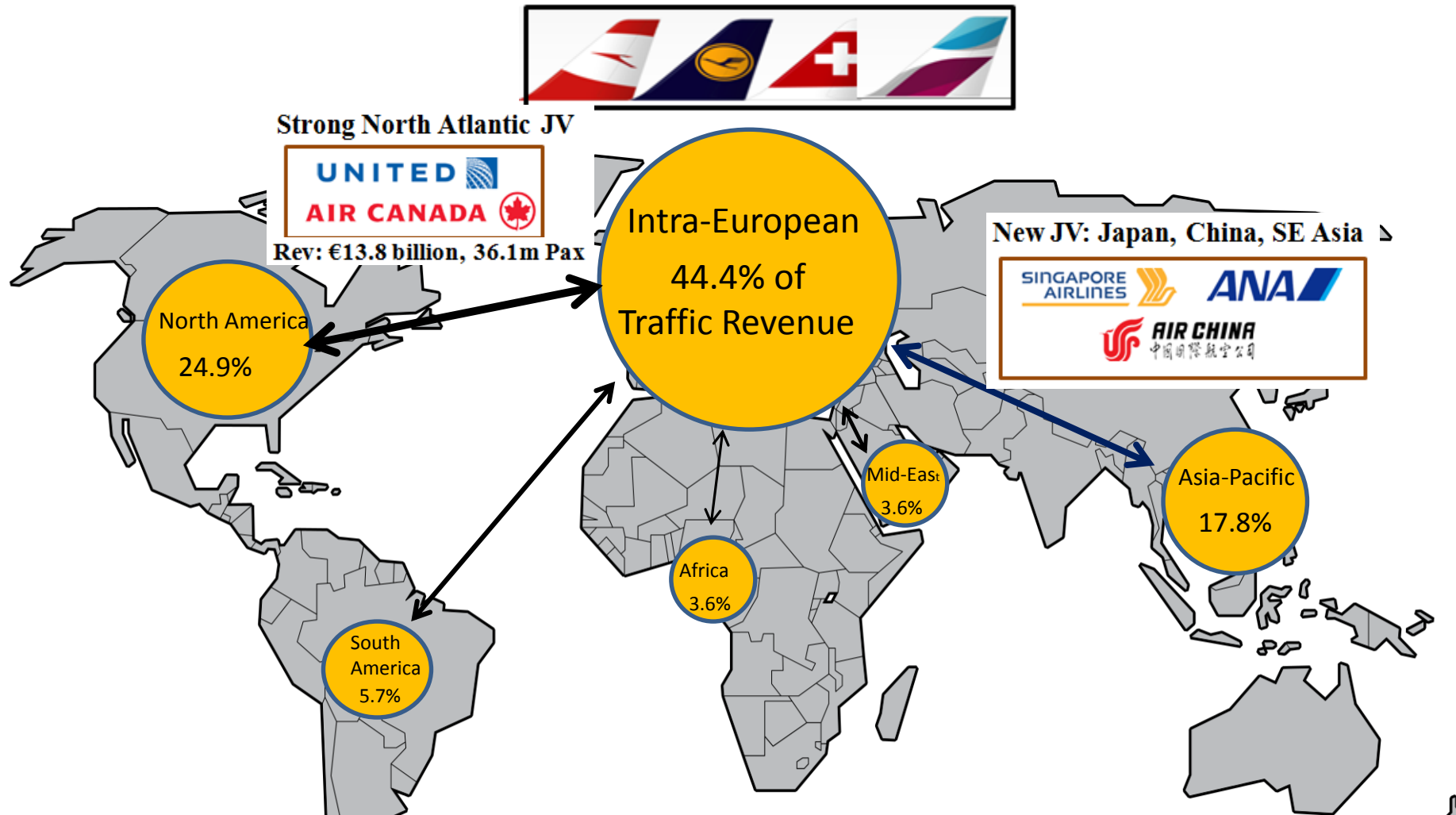
86% of total flights came from the EU or 81% of the seats came form the EU

Airline Business Model Lifecycle





Lufthansa Group - 2015



The basic principle behind the **joint ventures** is so-called “metal neutrality” which is achieved through close cooperation in capacity and price planning as well as revenue management. This allows travellers to freely combine flights from a harmonized range of offers and take advantage of additional travel options and the increased availability of special fares and connecting flights. Passengers do not need to choose a preferred partner when buying a ticket – instead, they are “neutral” in terms of the “metal” they fly with. For the airlines to reach their targets together, revenues are managed in a single “pot,” itemized according to the share of production and then distributed.

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3 airline alliances



STAR ALLIANCE

27 Members



13 Members



20 Members