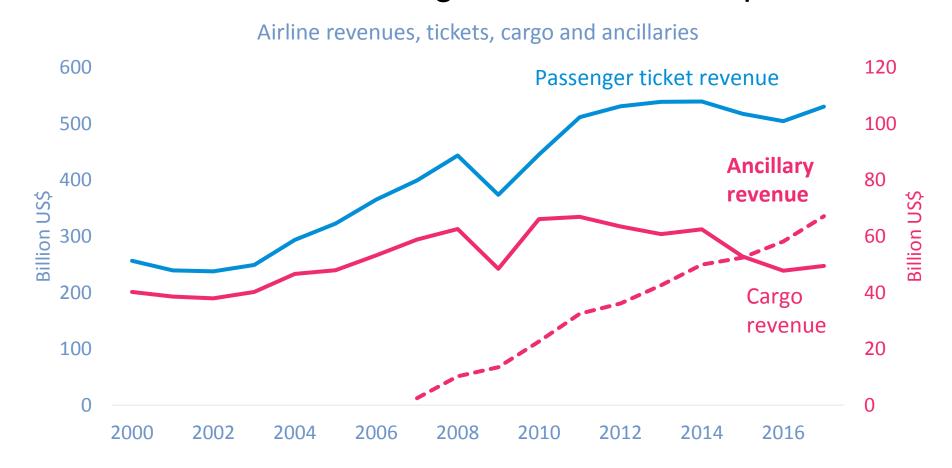
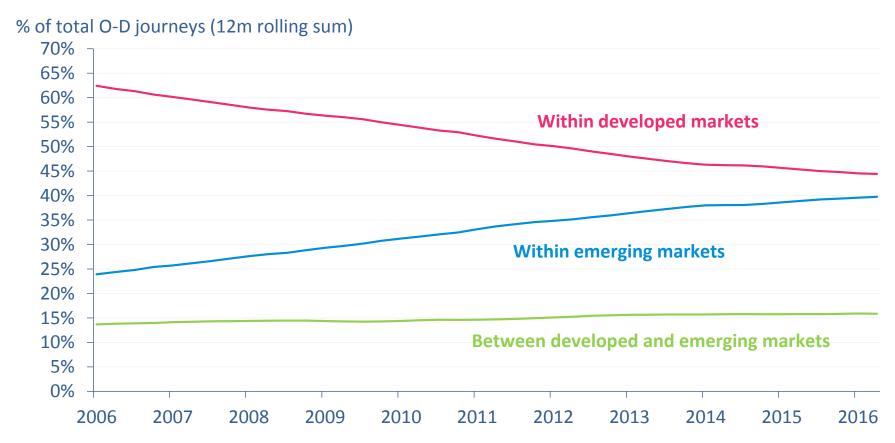


Airline markets are shifting, both in terms of product...



Source: IATA Economics using data from PaxIS+, IdeaWorks, CargoIS, ICAO and IATA Statistics

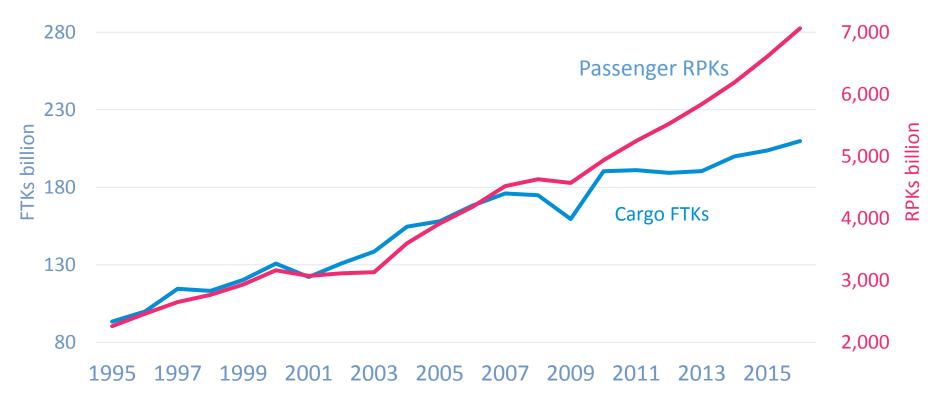
...And in terms of geography



Source: IATA/Tourism Economics Air Passenger Forecasts, September 2016

The GFC precipitated one key divergence

Air travel and cargo volumes



Source: ICAO, IATA www.iata.org/economics

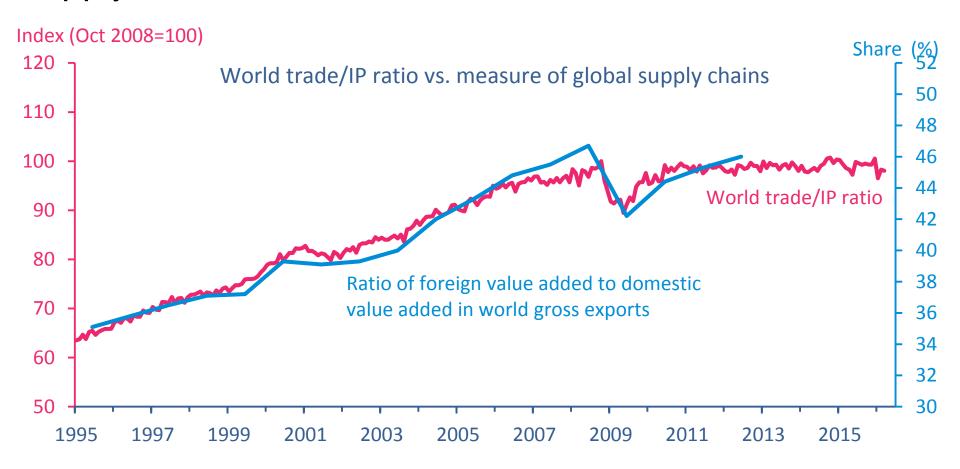
Retreat from globalization

World GDP and cross-border trade growth



Source: IMF World Economic Outlook and the World Trade Organization

Supply chains have been shortened



Protectionism is on the rise



Donald Trump Vows to Rip Up Trade Deals and Confront China

The New York Times 28 June 2016

Across Europe, distrust of mainstream political parties is on the rise

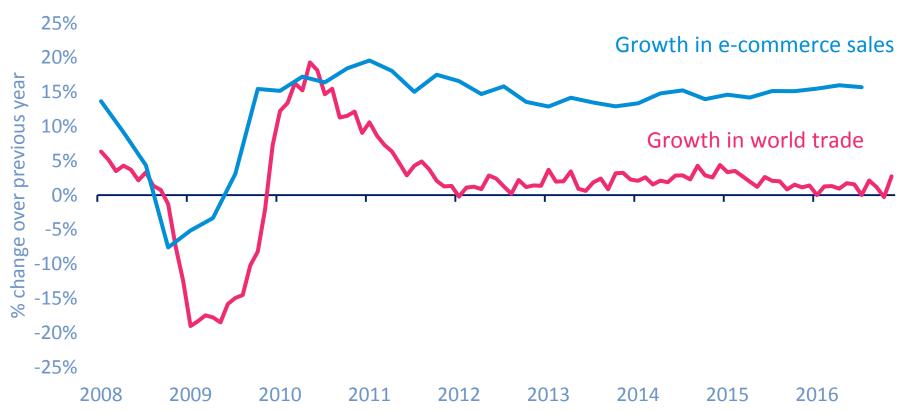
Guardian 25 May 2016

Clamour for trade protectionism on rise: Arun Jaitley

CNBC 13 October 2016

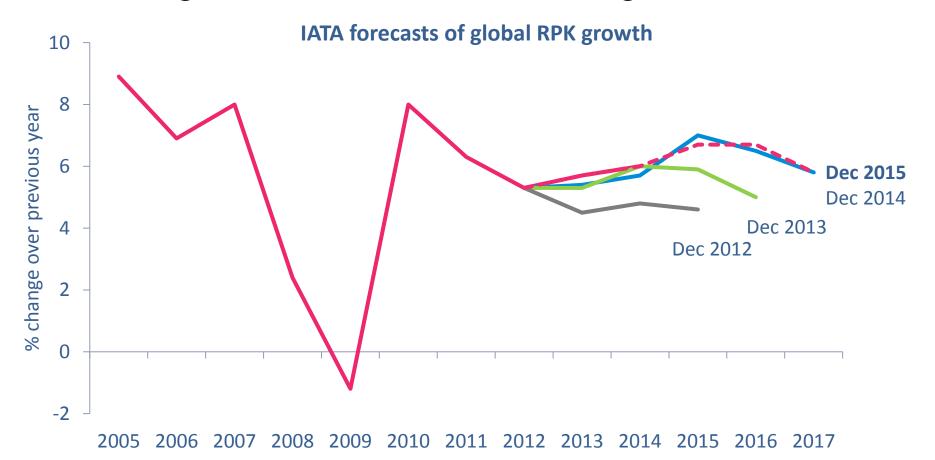
Finding new customer segments

Growth in world trade and (US) e-commerce sales



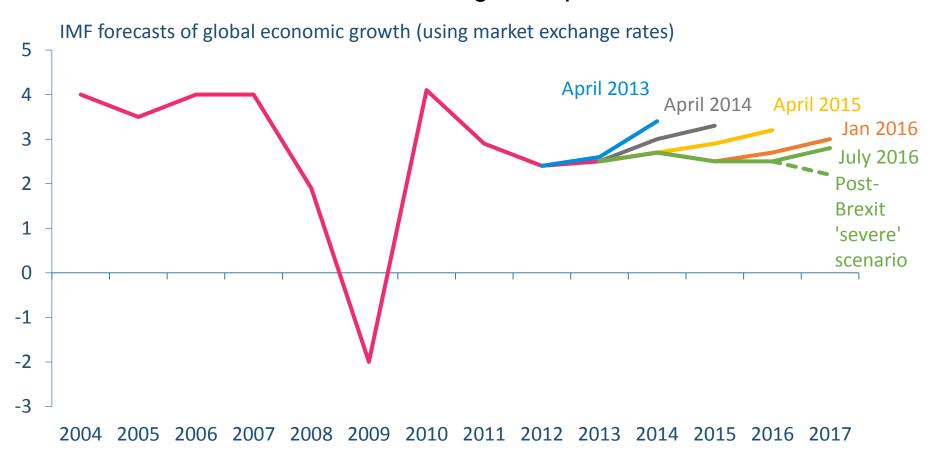
Source: IATA Economics using data from Netherlands CPB and Haver

Air travel growth has remained strong



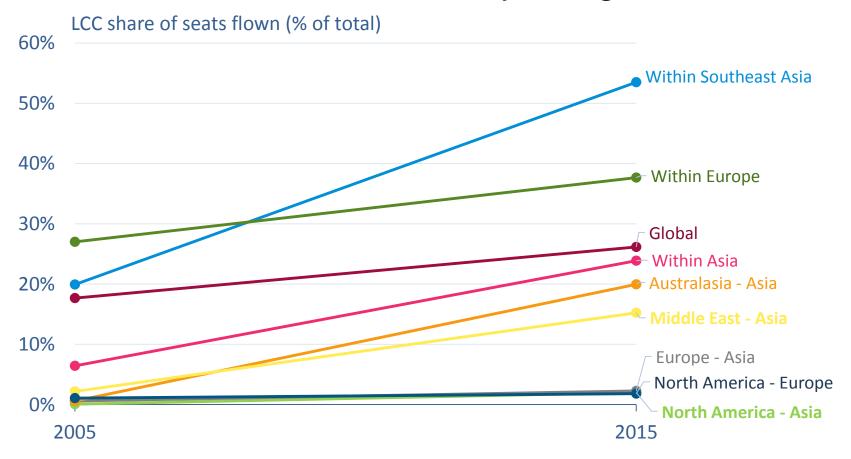
Source: IATA Economic Performance of the Airline Industry

But world is stuck in a low economic growth path



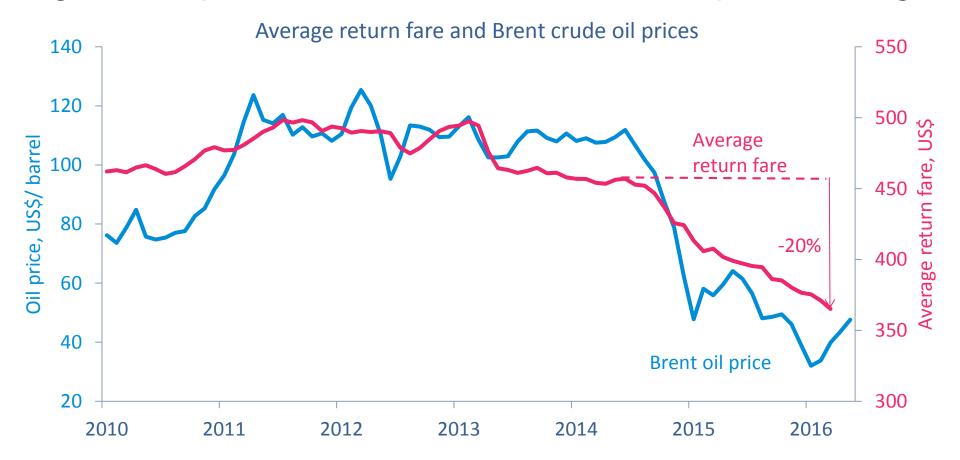
Source: IMF World Economic Outlook

Price stimulation from LCC entry in significant markets

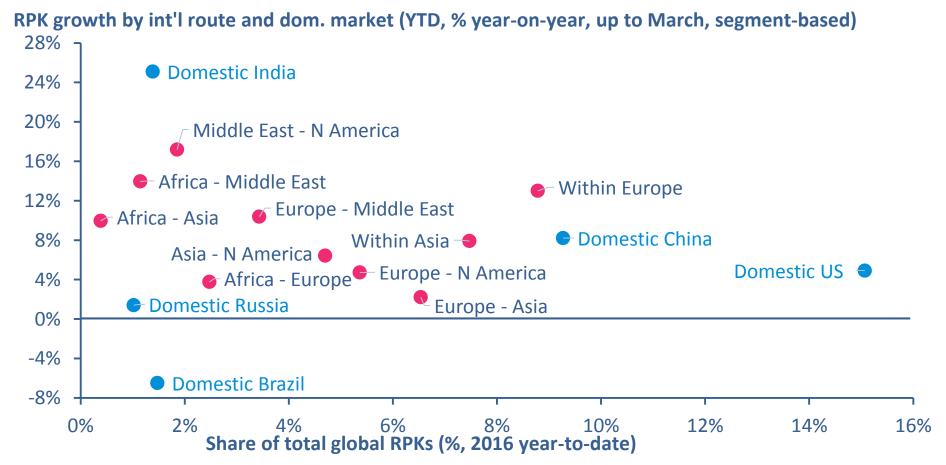


Sources: IATA using SRS Analyser data

Significant price stimulation from fuel cost pass-through



But a very mixed picture across travel markets today



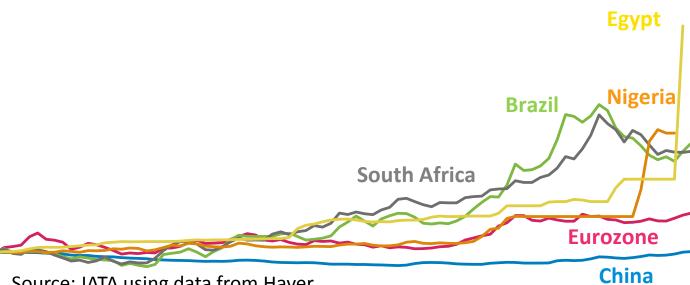
'Market' price elasticities depend on substitutes

Table 1: Estimated Price Elasticities of Passenger Demand

	Route/Market level		National level		Supra-national level	
	Short-haul	Long-haul	Short-haul	Long-haul	Short-haul	Long-haul
Intra N America	-1.5	-1.4	-0.9	-0.8	-0.7	-0.6
Intra Europe	-2.0	-2.0	-1.2	-1.1	-0.9	-0.8
Intra Asia	-1.5	-1.3	-0.8	-0.8	-0.6	-0.6
Intra Sub- Saharan Africa	-0.9	-0.8	-0.5	-0.5	-0.4	-0.4
Intra S America	-1.9	-1.8	-1.1	-1.0	-0.8	-0.8
Trans-Atlantic	-1.9	-1.7	-1.1	-1.0	-0.8	-0.7
Trans-Pacific	-0.9	-0.8	-0.5	-0.5	-0.4	-0.4
Europe-Asia	-1.4	-1.3	-0.8	-0.7	-0.6	-0.5

Coping with further US \$ strength

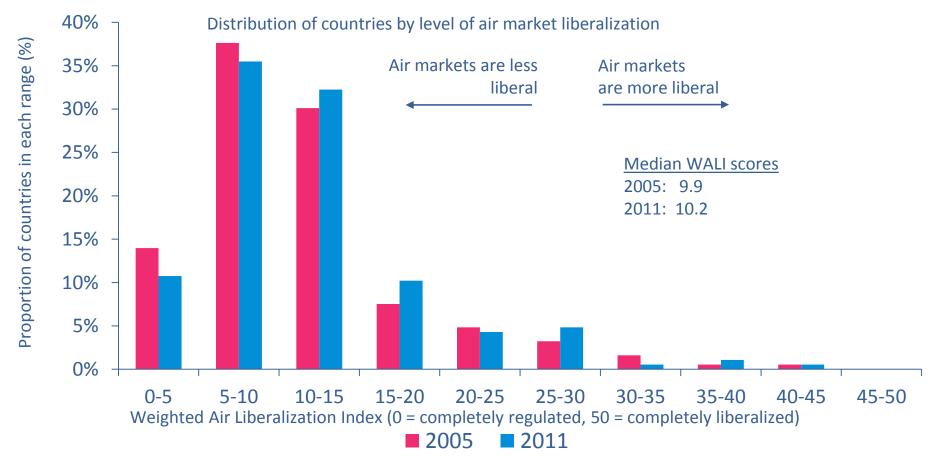
Exchange rates per US\$, indexed to equal 100 in 2010



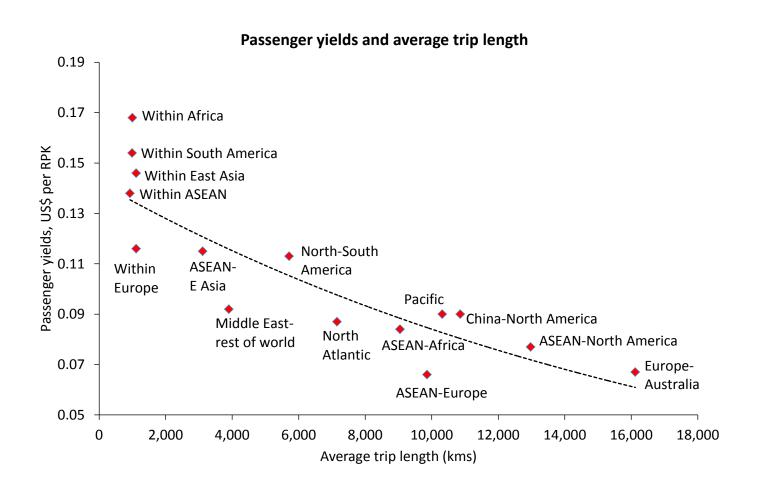
Source: IATA using data from Haver



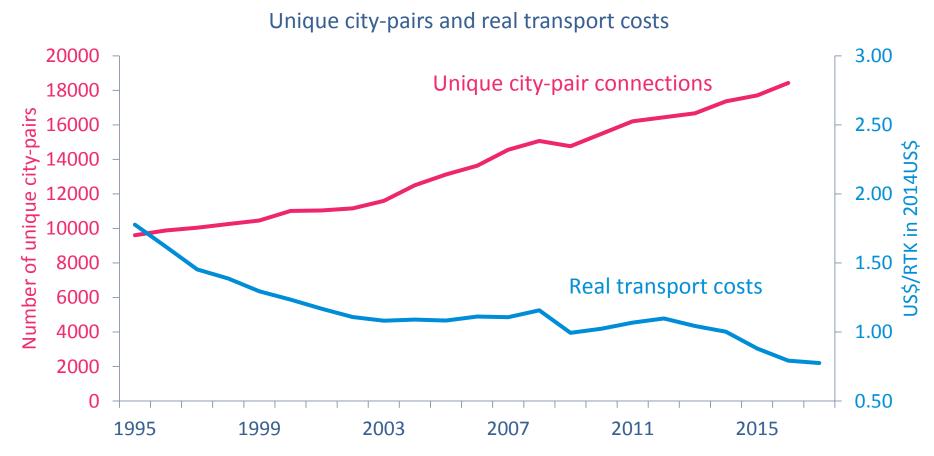
There is also still a lot of pent-up demand (and supply)



Scope for large price change in short-haul markets

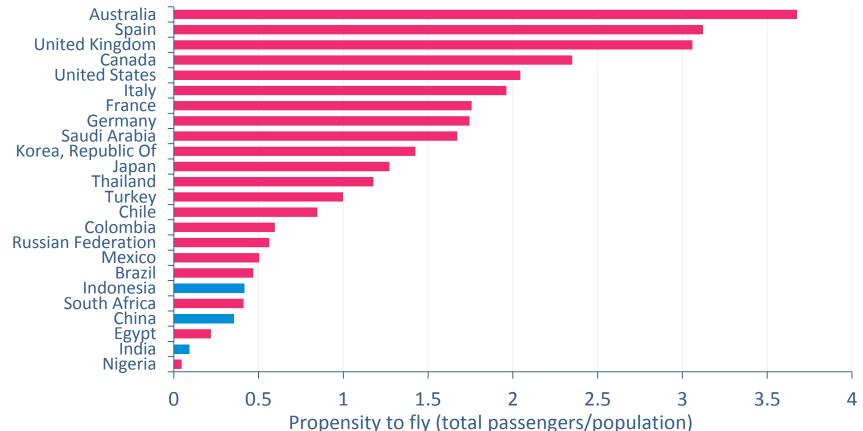


Generalized costs about time as well as fares



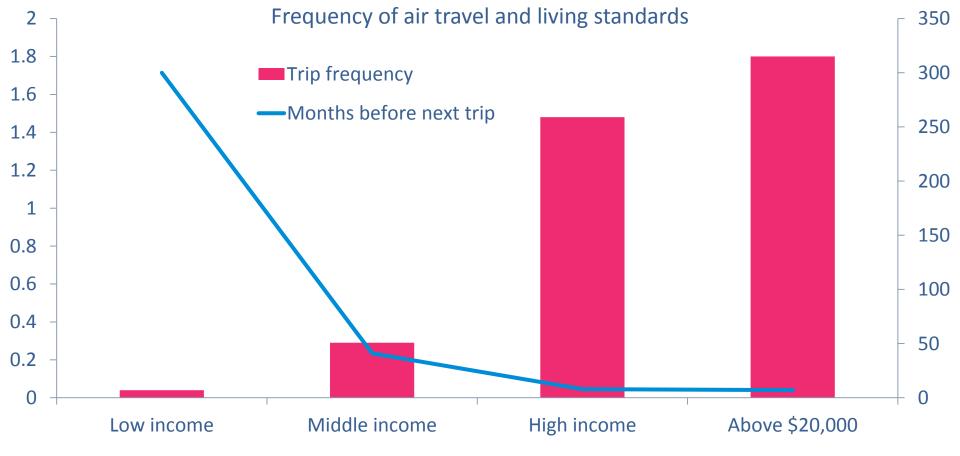
Source: IATA Economic Performance of the Airline Industry, End-Year 2016 report

Trip frequency still low in many important markets



Source: IATA/Tourism Economics Air Passenger Forecasts, September 2016

Living standards make big difference to travel frequency

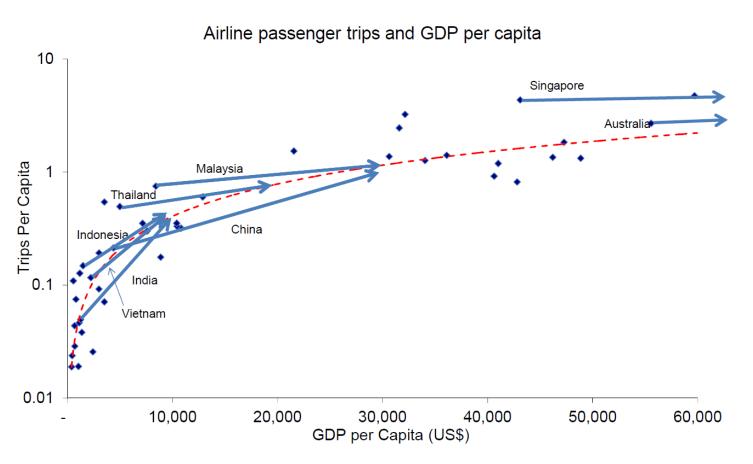


Living standards still have much room for catch-up



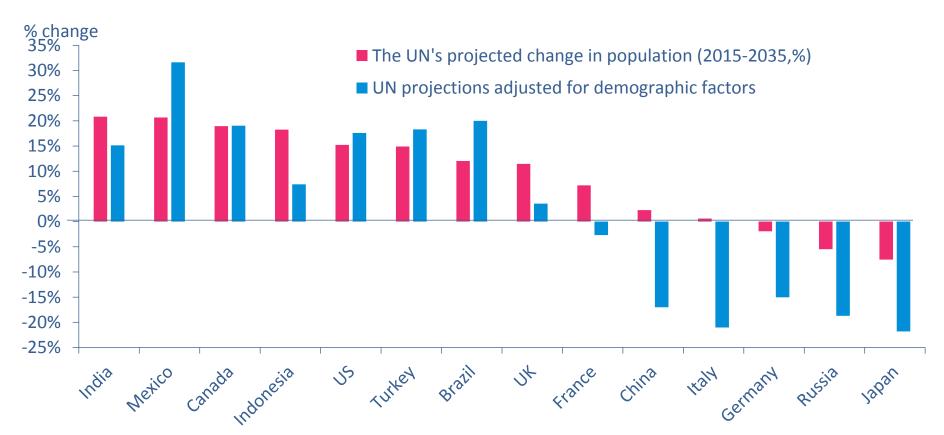
Source: IATA/Tourism Economics Air Passenger Forecasts, September 2016

Large potential in populous but (currently) poor markets



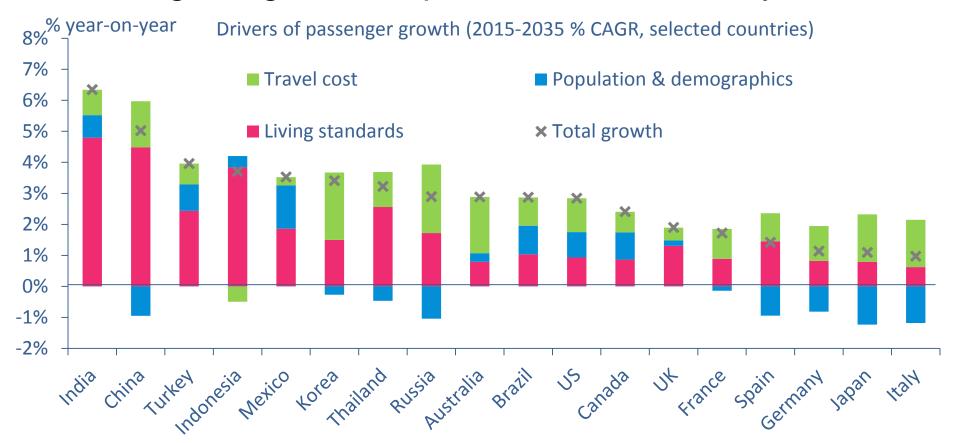
Source: IATA Economics using data from PaxIS+ and Oxford Economics

Demographics strong in some key markets, adverse in others

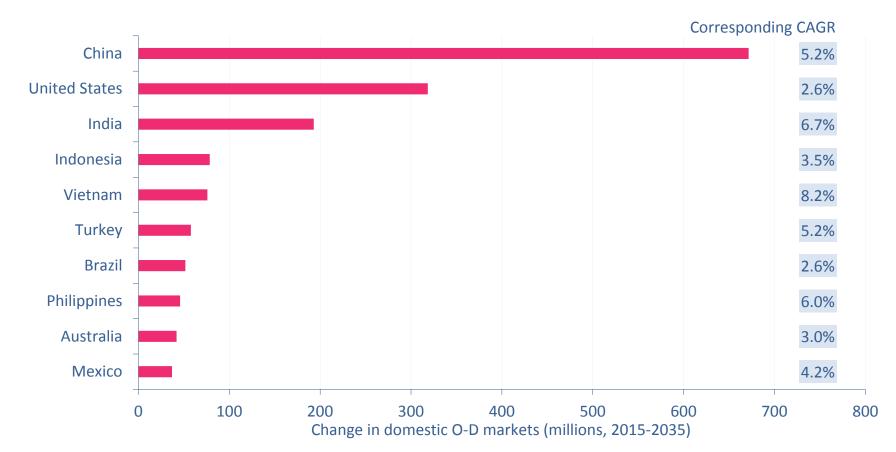


Source: IATA/Tourism Economics Air Passenger Forecasts, September 2016

Wide range of growth expected over next 20 years

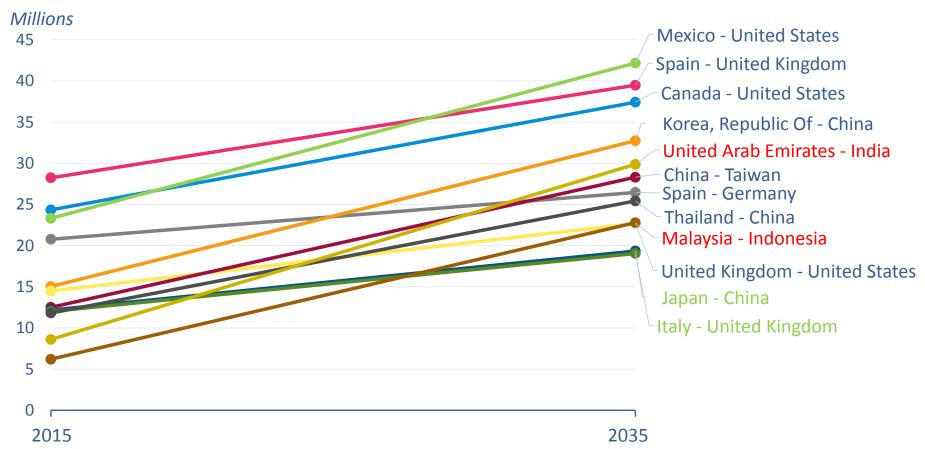


China largest increment, but don't dismiss the US



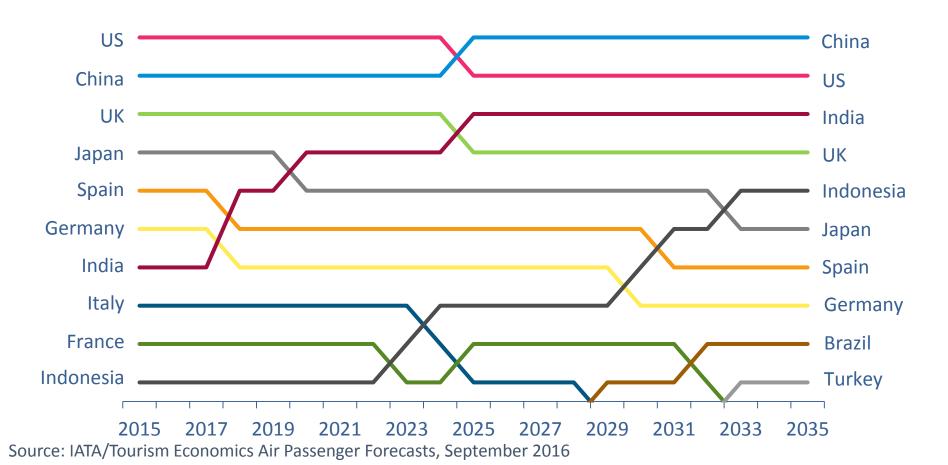
Source: IATA/Tourism Economics Air Passenger Forecasts, September 2016

New top international country-pair markets emerging

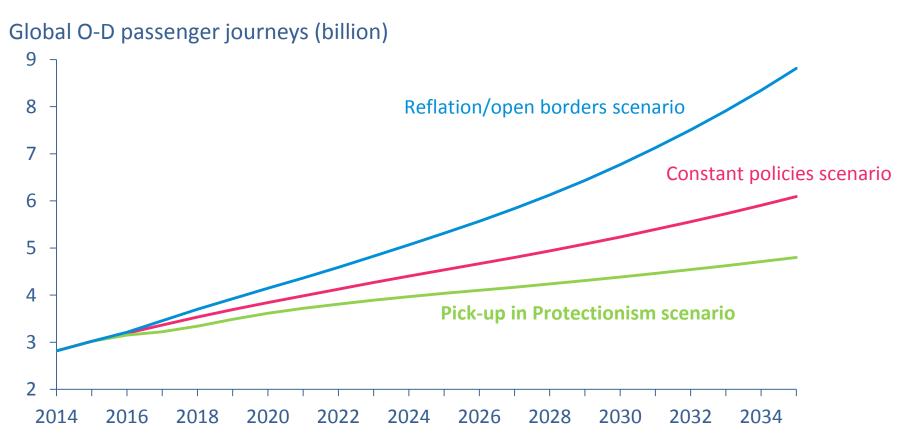


Source: IATA using data from TE/IATA Air Passenger Forecasts, October 2016

Significant change in top-10 in air travel over next 20 years

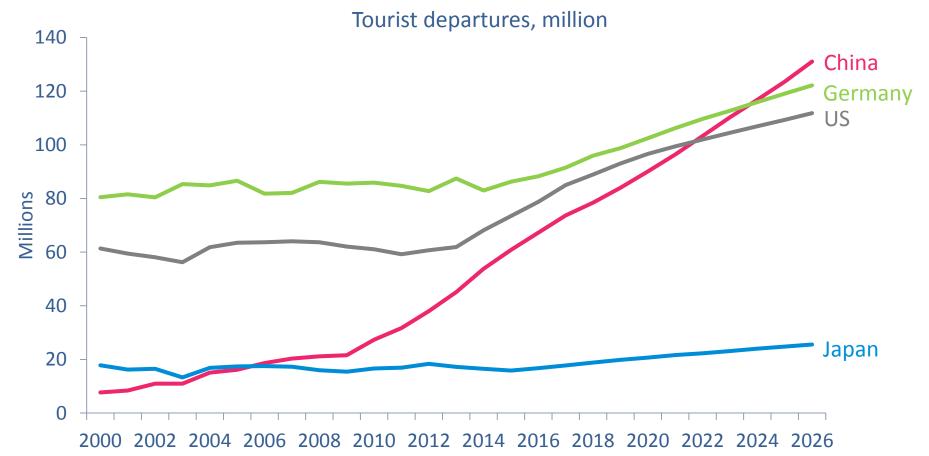


Long-term travel growth even in gloomy macro scenario



Source: IATA/Tourism Economics Air Passenger Forecasts, September 2016

Chinese tourist outflows begin to dominate



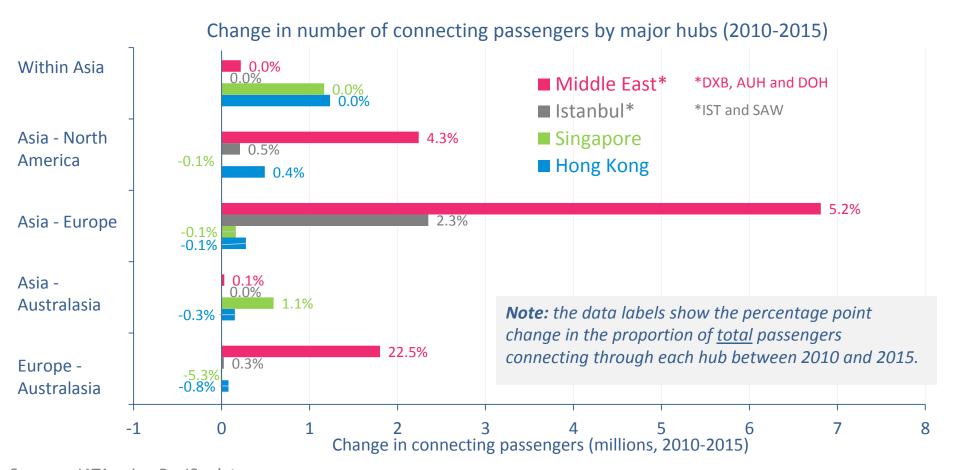
Source: IATA Economics using data from Tourism Economics' Decision Metrics database

Centre of gravity of air travel shifting fast towards China



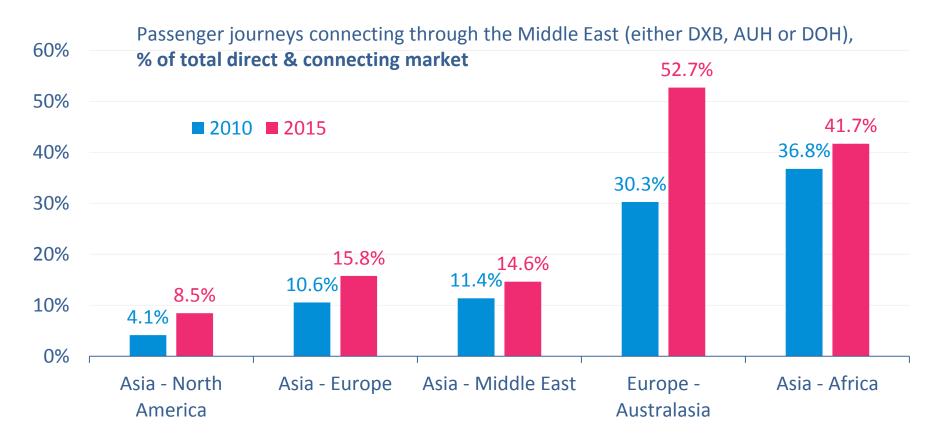
Source: IATA Economics using data from PaxIS+

Connecting market shares stable - but Gulf/TK threat

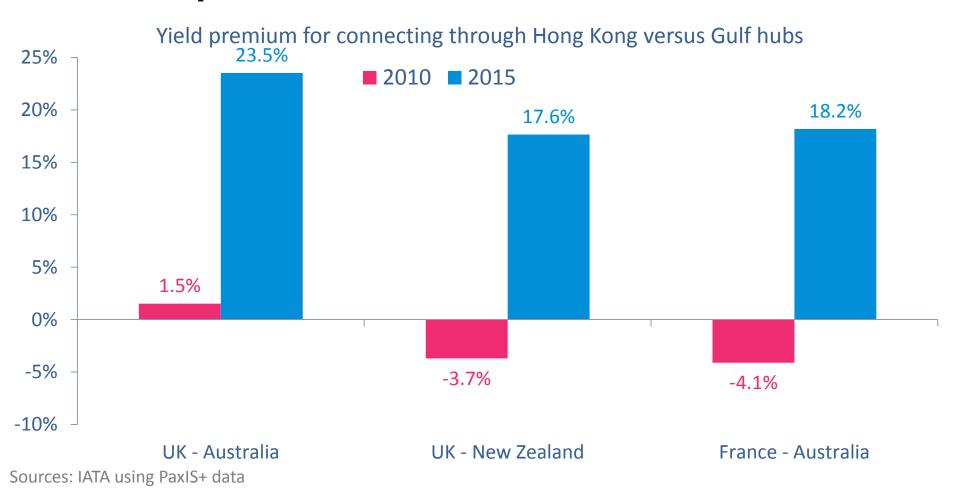


Sources: IATA using PaxIS+ data

Gulf hubs starting to dominate some markets



Price competitiveness issue on these markets



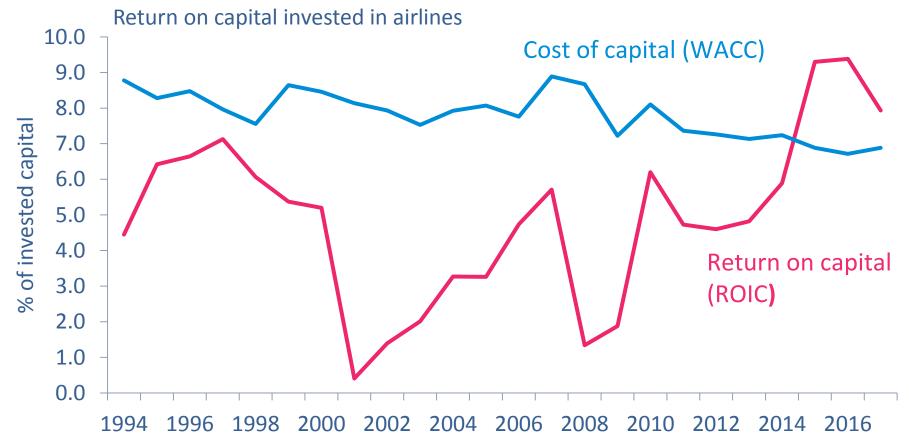
The air transport paradox

Revenue growth ¹		ROIC ² excluding goodwill (average)		
Industry total for each year, 2004 - 13 CAGR	R, percent	Industry aggregate, 2004 - 13 simple average, percent		
Healthcare equipment and services Rail	6.2 6.2	Software and services Pharma, biotech, and life sciences	45.7 94.7	
Airlines	6.1	Household and personal	36.4	
Energy	6.0	Healthcare equipment and services	33.9	
Tech hardware and equipment	5.8	Media	30.7	
Materials	5.2	Food, beverage, and tobacco	26.8	
Software and services	4.7	Tech hardware and equipment	24.7	
Utilities	4.6	Communications and professional services	21.9	
Freight forwarding	4.5	Semiconductors and equipment	21.5	
Capital goods	4.3	Telecom	20.6	
Economy	4.3	Postal/CEP	16.6	
Pharma, biotech, and life sciences	4.2	Consumer services	15.7	
Retailing	4.1	Retailing	15.7	
Food, beverage, and tobacco	3.9	Consumer durables and apparel	15.6	
Food and staples retail	3.8	Economy	13.9	
Transportation & logistics	3.6	Capital goods	13.6	
Trucking	3.4	Bus	13.6	
Contract logistics	3.4	Food and staples retail	13.3	
Household and personal	3.3	Energy	12.7	
Telecom	3.3	Materials	12.4	
Shipping	3.0	Contract logistics	12.4	
Semiconductors and equipment	2.8	Freight forwarding	12.3	
Communications and professional services	2.6	Rail	8.1	
Consumer services	2.4	Shipping	7.7	
Consumer durables and apparel	2.4	Transportation & logistics	7.5	
Bus	2.2	Automobiles and components	6.8	
Automobiles and components	2.1	Trucking	6.4	
Postal/CEP	1.6	Utilities	6.1	
Media	1.4	Airlines	4 .0	

¹ Real revenue growth, 2004 - 13 CAGR inflation adjusted, median for industry

² ROIC after tax, excluding goodwill; excludes outliers

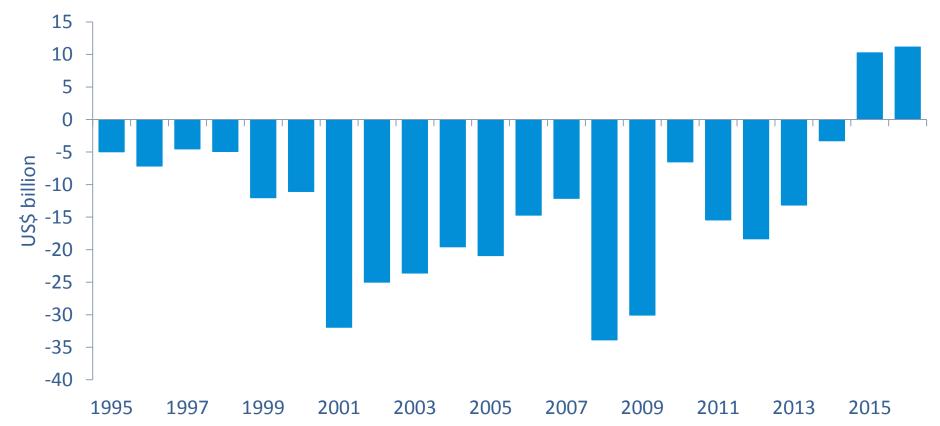
At last investors are getting a 'normal' return



Source: IATA Economic Performance of the Airline Industry, End-Year 2016 report

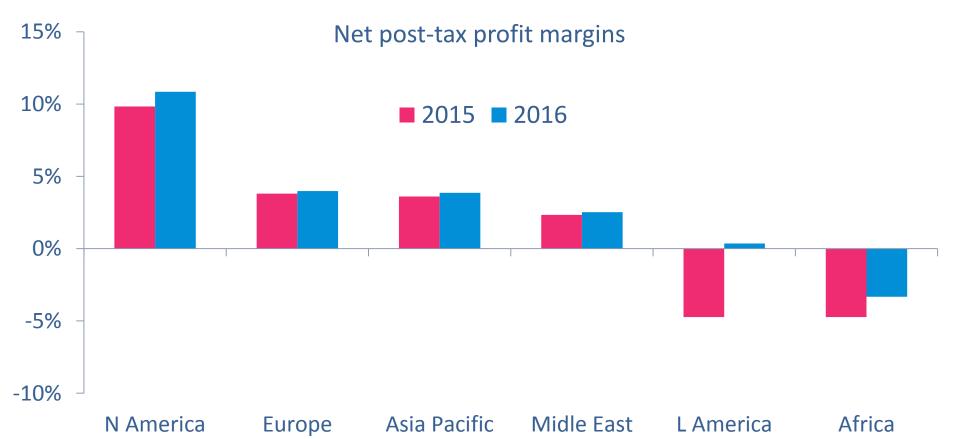
Ending decades of investor capital destruction (?)

Difference between investing in airlines and investing in similar assets elsewhere



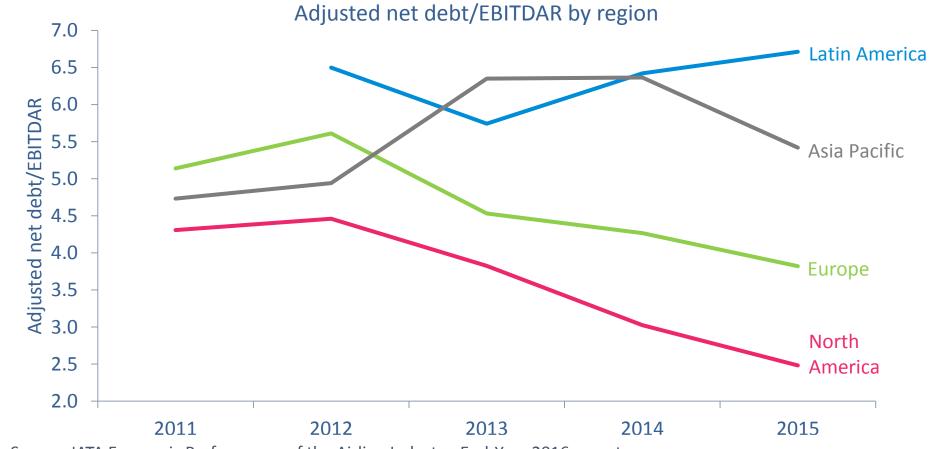
Source: McKinsey, IATA www.iata.org/economics

But airline profitability still challenged outside the US



Source: IATA Economic Performance of the Airline Industry, End-Year 2016 report

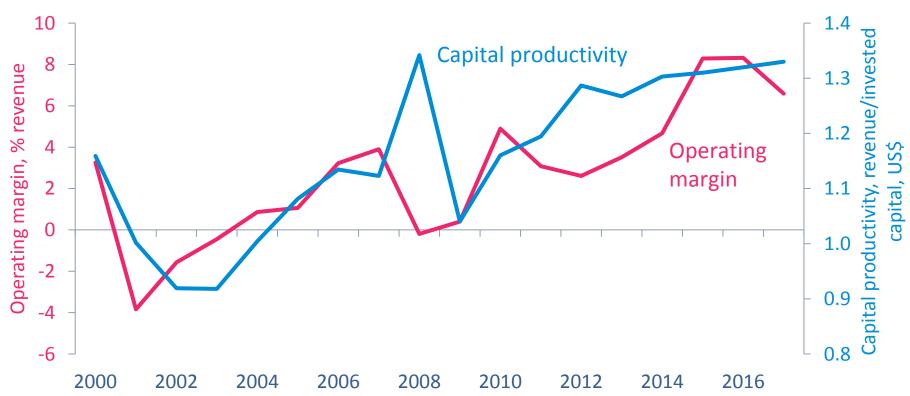
Balance sheets in some regions remain weak



Source: IATA Economic Performance of the Airline Industry, End-Year 2016 report

Solid improvement in capital productivity

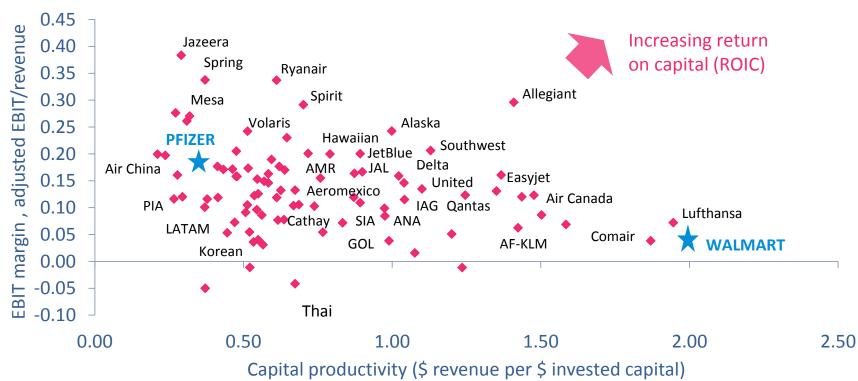
Airlines' operating or EBIT margin and capital productivity



Source: IATA Economic Performance of the Airline Industry – end year 2016 report

Helping airlines' business model innovation





Source: IATA using data from The Airline Analyst

Structural change in approach to asset utilization



Source: IATA Economic Performance of the Airline Industry – end year 2016 report

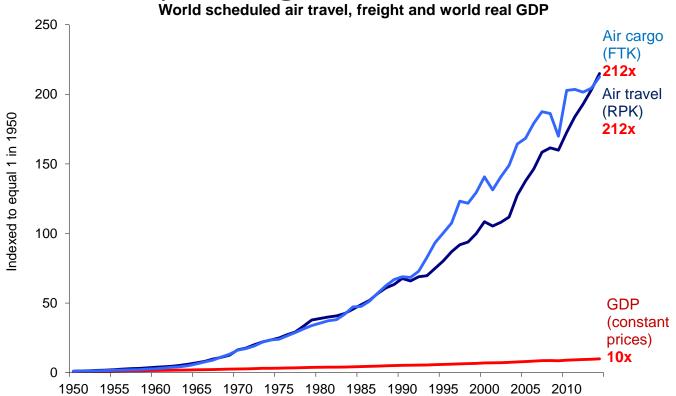
High fuel prices not always bad for airlines



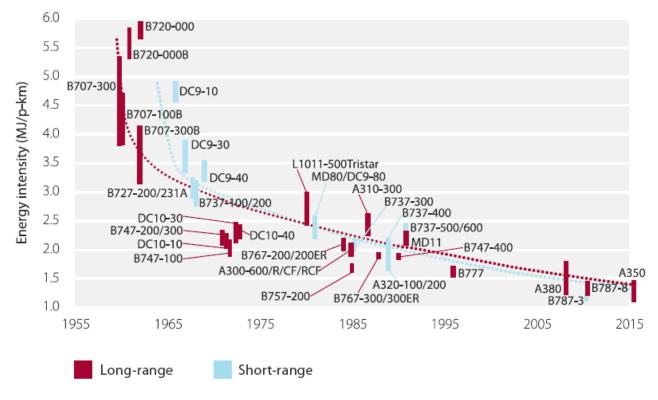


Source: IATA, Platts

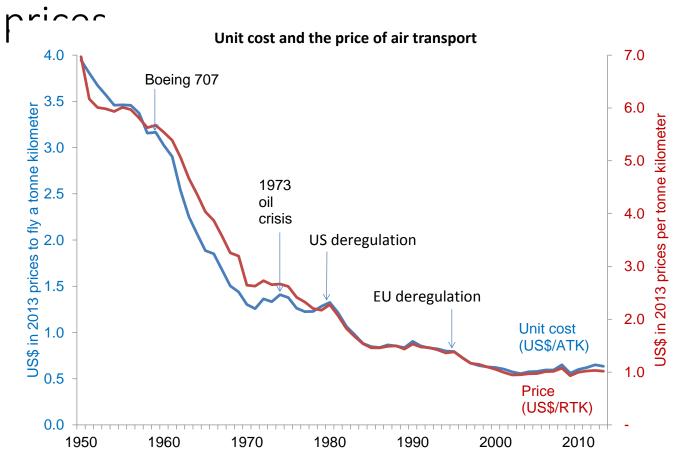
extremely strong



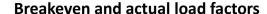
Aircraft fuel efficiency has improved dramatically

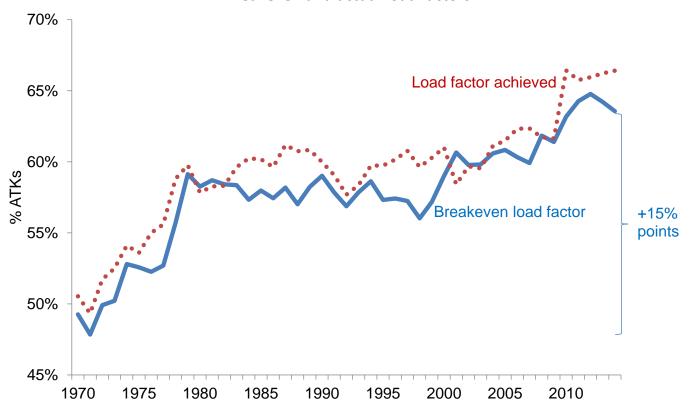


Costs typically passed through to



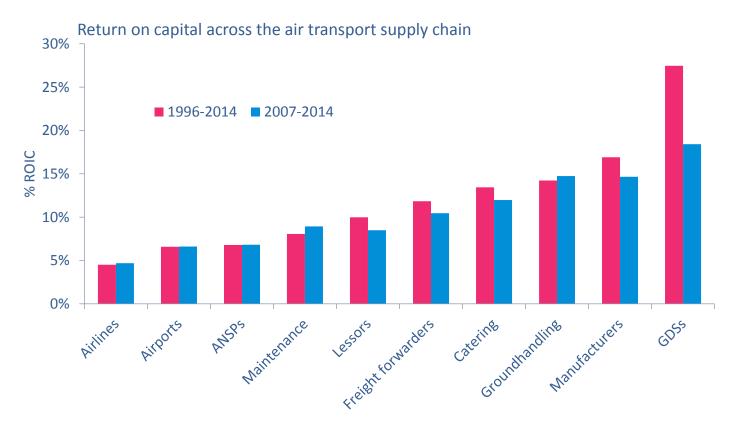
further than costs





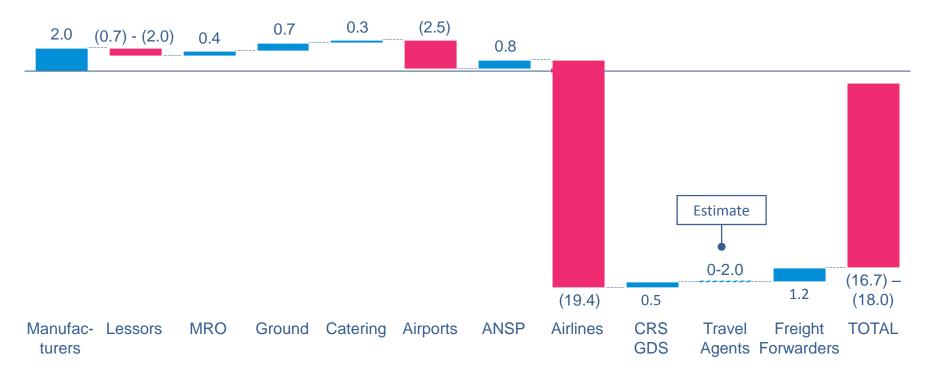
Source: IATA, ICAO

Other sectors do better



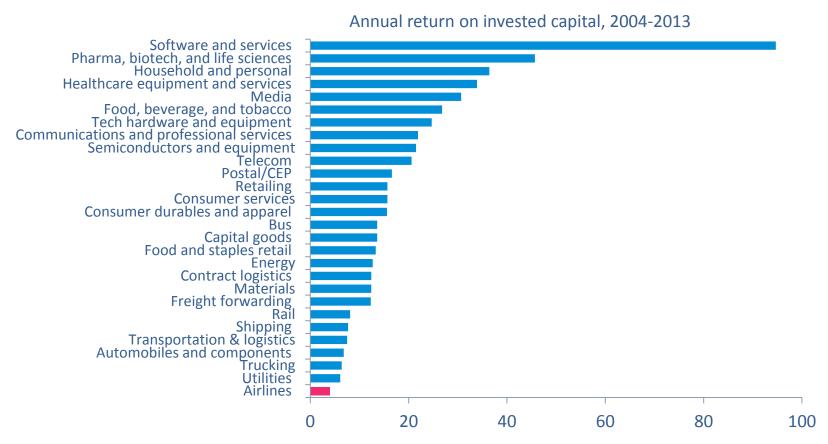
But this is not the main issue for airline earnings

Average yearly economic profit, USD billion, 2007-2014



Source: McKinsey for IATA

And awful relative performance



Source: McKinsey www.iata.org/economics

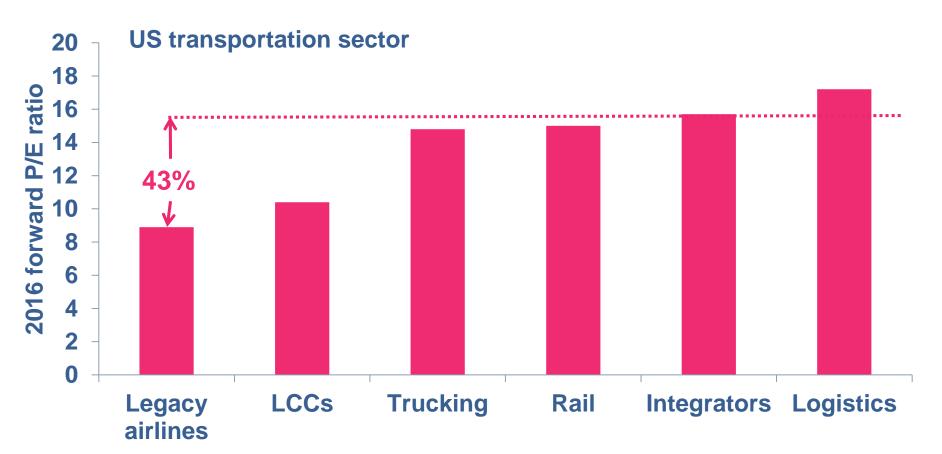
Debt finance markets still sceptical of change

AA+/-		
A+/-		-
BBB+/-	ANZ, Qantas, Lufthansa, Ryanair, Southwest, Alaska, Westjet	
BB+/-	Delta, American, United, Allegiant, Spirit, BA, Turkish, LATAM	
B+/-	Air Canada, Hawaiian, JetBlue, Avianca, GOL, SAS, Virgin Australia	

Investment grade

Source: S&P, Airfinance Journal December 2015

As are equity markets



Source: Datastream

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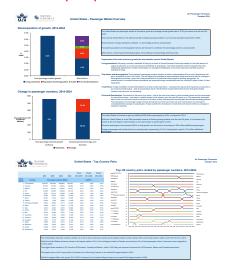


AN OXFORD ECONOMICS COMPANY

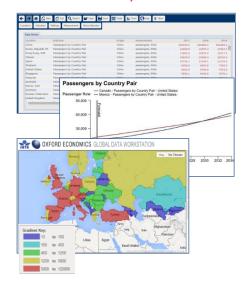
Global Report



Country Reports



Online database/webtool



www.iata.org/pax-forecast