### COVID-19

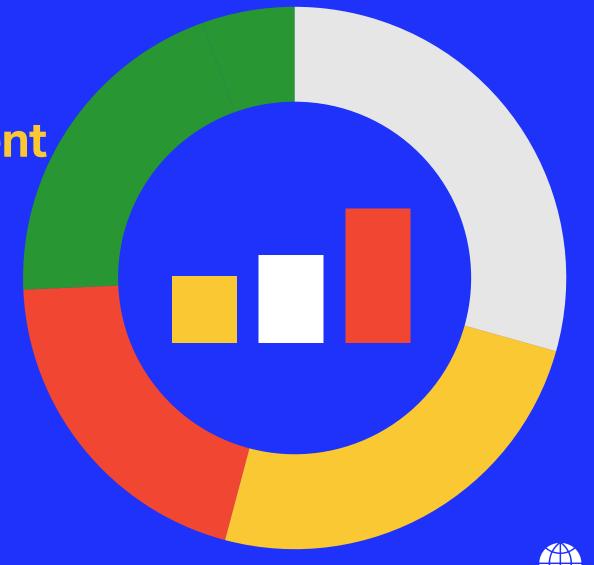
Updated impact\* assessment

of the novel Coronavirus

**Brian Pearce** 

**Chief Economist** 

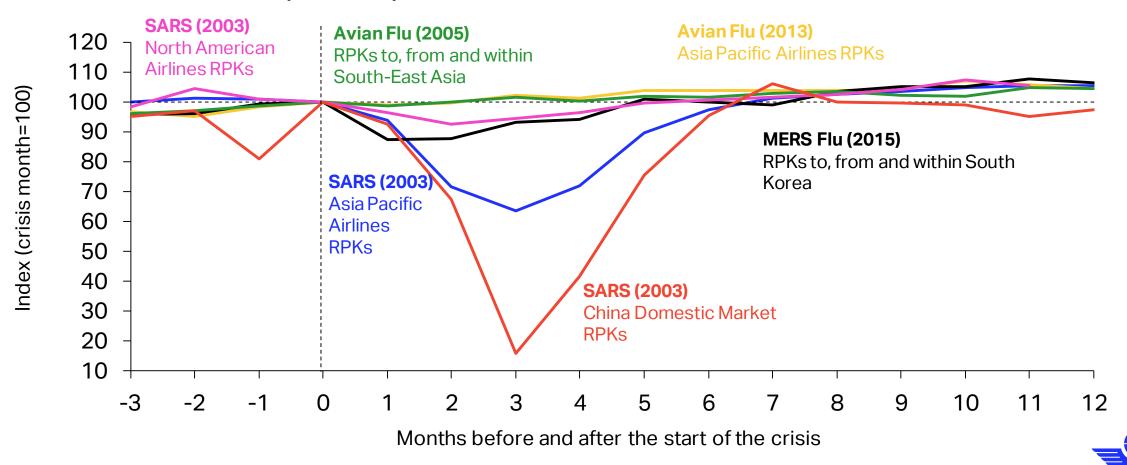
5<sup>th</sup> March 2020



<sup>\*</sup> These are scenarios not forecasts and will change as the situation evolves and evidence builds.

### Previous disease outbreaks have peaked after 1-3 months and recovered pre-outbreak levels in 6-7 months

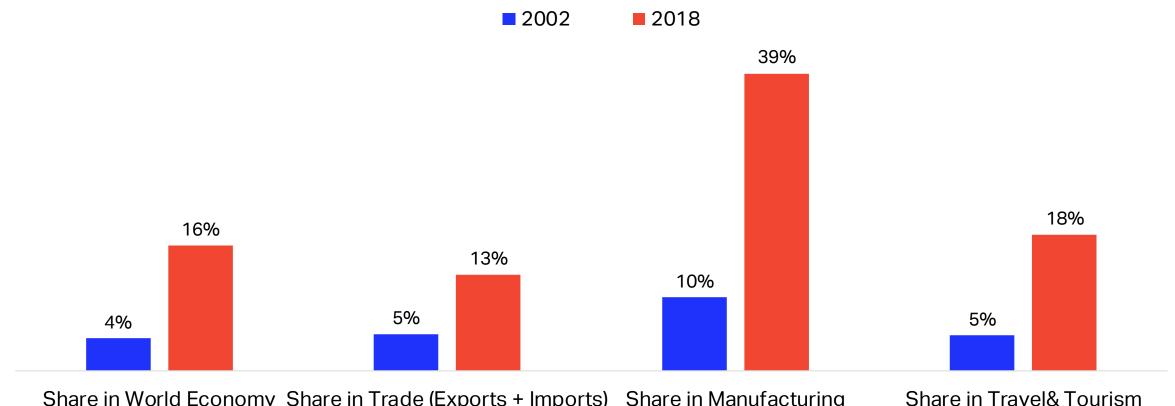
Impact of past disease outbreaks on aviation



**Economics** 

#### SARS experience underestimates today's impact because China's economic size is now much greater

China's Contribution to World Economy

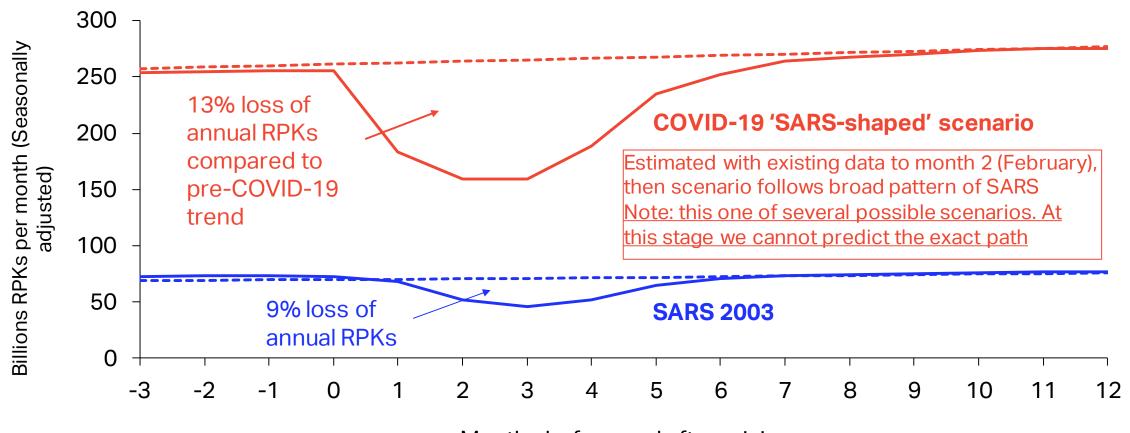






### If COVID-19 impact has a SARS-shaped profile this implies a 13% loss of RPKs in 2020 for Asia-Pacific airlines





Months before and after crisis



# This scenario results in a \$28bn loss of passenger revenues for Asia-Pacific airlines. If confined mostly to China markets then impacts elsewhere are minor

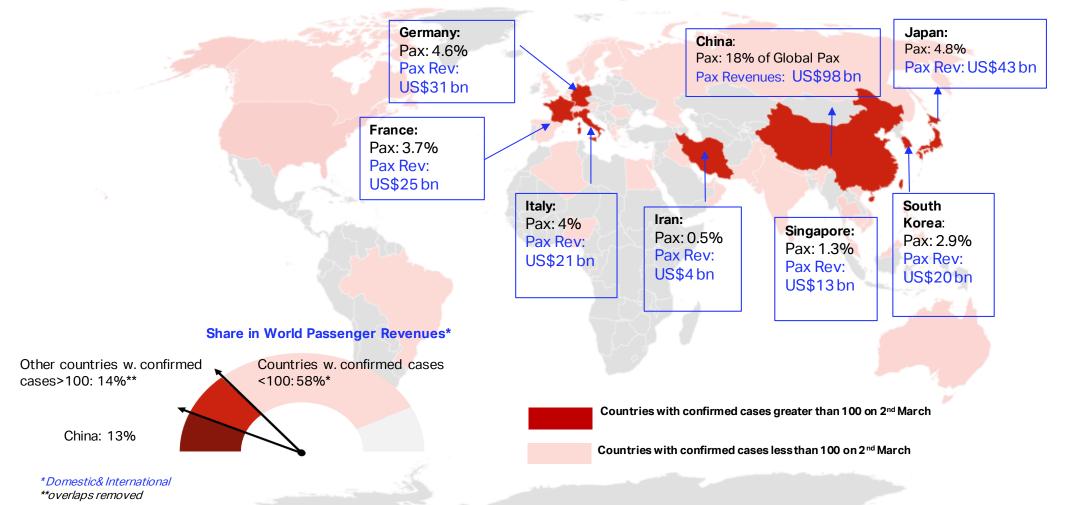
Region of airline registration	Impact on 2020 RPKs (% of December forecast for 2020)	Impact on 2020 passenger revenue (billion US\$)
Asia Pacific	-13.0%	-27.8
North America	-0.4%	-0.7
Europe	-0.4%	-0.6
Middle East	-0.2%	-0.1
Africa	-0.4%	-0.04
Latin America	-0.1%	-0.03
Industry	-4.7%	-29.3

**Scenario notes**: Regional impacts are based only on the direct exposure to Chinese markets, except for Asia-Pacific airlines where a wider Asia impact is assumed, as in SARS. No additional or second-round weakness of other markets beyond China are included for non-Asia Pacific airlines. Revenue impacts are estimated based on the 2020 RPK impact assuming no change in yields.



## But countries with more than 100 cases now account for more than 27% of global passenger revenues

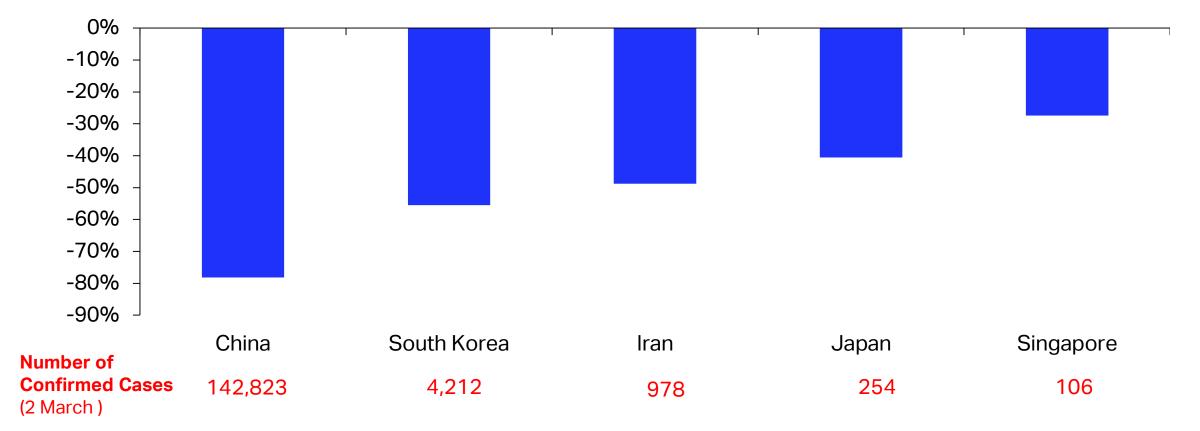
COVID-19 and Air Passenger Traffic





### The scale of the fall in bookings is **related to the number** of **COVID-19 cases** in those markets

Year-on Year % Change in Passenger Numbers – Bookings for April



This data shows tickets sold for travel on these dates minus refunds and exchanges. It is for scheduled travel and so will not include charter services.



Source: IATA Economics using data from DDS

#### Scenario 1: 'Limited Spread' Scenario

- Countries that have 100 confirmed COVID-19 cases or more (as of 2 Mar) are included in the analysis.
  - Asia-Pacific: China, Japan, Singapore, South Korea, Europe: France, Italy, Germany, Middle East: Iran
- We assume a monthly profile for passenger numbers based first on the pattern in the China market data following the COVID-19 outbreak and then the pattern of the SARS episode.
  - March and April is based on the forward bookings data with the exception of Italy, France and Germany.
  - Italy is assumed to follow the same pattern as China. France and Germany are assumed to follow the same pattern as Singapore (based on the relationship in the previous slide).
  - After two months following the outbreak, the passenger number profile is based on SARS.
- We also assume an adverse confidence impact in markets close to the centres of community transmission in Asia Pacific, Europe and Middle East.
  - Asia Pacific markets outside of China, Japan, Singapore and South Korea, are based on forward bookings for first two months and then follow a similar profile to SARS.
  - In Europe and Middle East, year-on-year changes in passenger numbers are assumed to follow the same pattern as the Asia-Pacific region outside of China, Japan, Singapore and South Korea.
- Revenue impacts are estimated assuming no change in yields.

### The 'Limited Spread' scenario implies a \$63 bn loss of passenger revenues (11%) worldwide in 2020

Market	Impact on passenger numbers	Impact on passenger revenue (Billion US\$)*
China	-23%	-22.2
Japan	-12%	-5.3
Singapore	-10%	-1.3
South Korea	-14%	-2.8
Asia Pacific (excluding China, Japan, Singapore, South Korea)	-11%	-15.4
Italy	-24%	-5.0
Germany	-10%	-2.9
France	-10%	-2.5
Europe (excluding Italy, Germany, France)	-7%	-9.2
Iran	-16%	-0.6
Middle East <i>(excluding Iran)</i>	-7%	-3.0

#### \* Note:

Revenue numbers do not add up to the \$63 bn global total because of route overlaps e.g. China and Japan include revenues on the China-Japan market. We adjust for overlaps in calculating the worldwide total. Revenues are base fare revenues for all airlines serving routes to, from and within each country



Source: IATA Economics

#### Scenario 2: 'Extensive Spread' Scenario

- Countries that have 10 confirmed cases or more (as of 2 Mar) included in the analysis.
  - Asia-Pacific: Australia, PR of China, Japan, Malaysia, Singapore, South Korea, Thailand, Vietnam
  - Europe: Austria, France, Italy, Germany, Netherlands, Norway, Spain, Switzerland, Sweden, the United Kingdom
  - Middle East: Bahrain, Iraq, Iran, Kuwait, Lebanon, the United Arab Emirates
  - North America: Canada, United States
- We assume a monthly profile for passenger numbers based first on the pattern in the China market data following the COVID-19 outbreak and then the pattern of the SARS episode.
  - For March and April year-on-year changes is assumed to follow the same pattern as China.
  - After two months, passenger demand profile is based on SARS episode.
- For Asia Pacific, Europe and Middle East outside the countries with 10 confirmed cases, regional weakness due to confidence loss is included.
  - Year-on-year change in demand is assumed to follow the same pattern as Asia-Pacific region outside of China, Japan, Singapore, South Korea as in the mild scenario starting from March.

**Economics** 

Revenue impacts are estimated assuming no change in yields.

# The 'Extensive Spread' scenario implies a \$113 bn loss of passenger revenues (19%) worldwide in 2020

Market	Impact on passenger numbers	Impact on passenger revenue (Billion US\$)*
Australia, China, Japan, Malaysia, Singapore, South Korea, Thailand, Vietnam	-23%	-49.7
APAC <i>excluding the above</i>	-9%	-7.6
Austria, France, Italy, Germany, Netherlands, Norway, Spain, Switzerland, Sweden, the United Kingdom	-24%	-37.3
Europe <i>excluding the above</i>	-9%	-6.6
Bahrain, Iraq, Iran, Kuwait, Lebanon, the United Arab Emirates	-23%	-4.9
Middle East <i>excluding the above</i>	-9%	-2.3
Canada, United States	-10%	-21.1

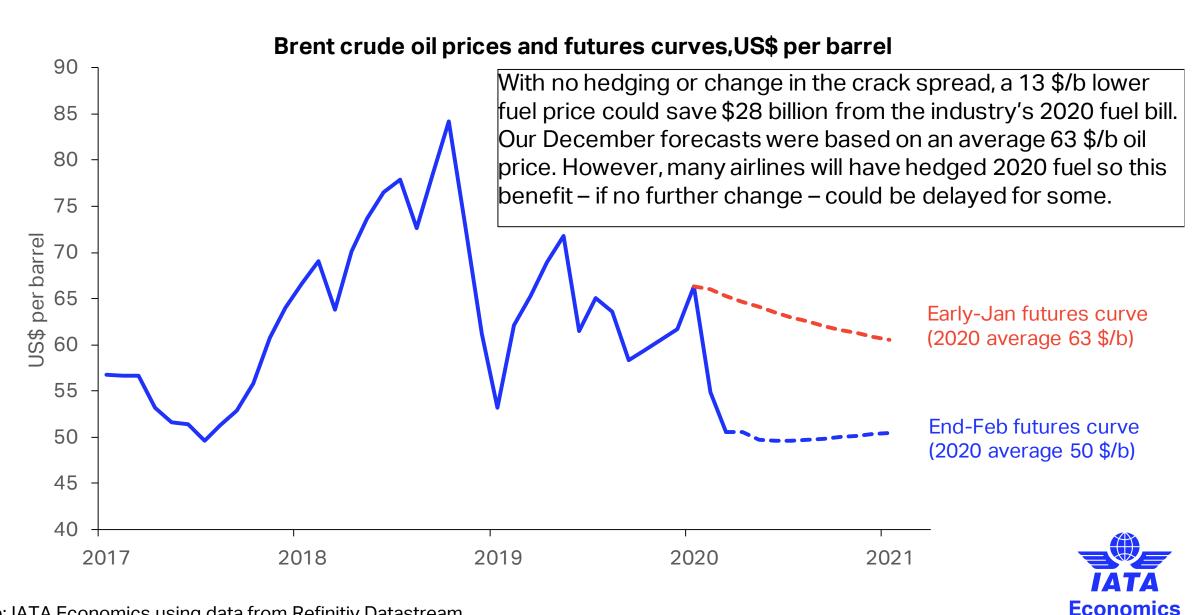
#### \* Note:

Revenue numbers do not add up to the \$113 bn global total because of route overlaps e.g. China and Japan include revenues on the China-Japan market. We adjust for overlaps in calculating the worldwide total. Revenues are base fare revenues for all airlines serving routes to, from and within each country



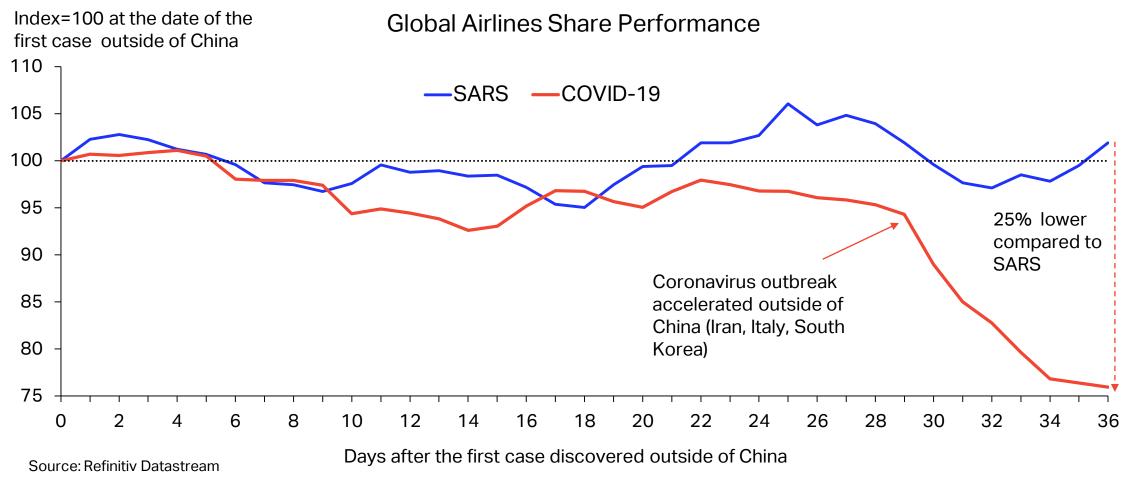
Source: IATA Economics

#### Fall in oil prices will provide some offset with lower costs



Source: IATA Economics using data from Refinitiv Datastream

## Financial markets are now anticipating a large fall in airline profits globally, far beyond SARS impact





### Contacts

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