

Effects of Novel Coronavirus (COVID-19) on Civil Aviation: Economic Impact Analysis

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Estimated impact of COVID-19 outbreak on scheduled **international passenger** traffic during **1Q 2020** compared to originally-planned:

- China (including Hong Kong/Macao SARs and Taiwan Province): 39% seat capacity reduction, 29.9 to 31.9 million passenger reduction, USD 6.7 to 7.2 billion loss of gross operating revenues of airlines
- **Republic of Korea**: 29% seat capacity reduction, 7.8 to 8.5 million passenger reduction, USD 1.5 to 1.7 billion loss of gross operating revenues of airlines
- **Italy**: 22% seat capacity reduction, 6.5 to 6.7 million passenger reduction, USD 0.8 to 0.9 billion loss of gross operating revenues of airlines
- Iran (Islamic Republic of): 25% seat capacity reduction, 600,000 to 640,000 passenger reduction, USD 92 to 100 million loss of gross operating revenues of airlines

* Coronavirus Disease 2019 (COVID-19) Situation Report by WHO as of 15 March 2020





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4 States have represented a significant portion of international capacity reduction in 1Q 2020

Reduction of international passenger seat capacity from originally-planned



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Introduction and Background





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What can we learn from past experience? SARS, Aviation flu and MERS

Impact of past outbreaks on aviation



History shows that SARS has the most serious impact on traffic. At the height of the outbreak (May 2003), monthly RPKs of Asia-Pacific airlines were 35% lower than their pre-crisis levels. Overall in 2003, Asia-Pacific airlines lost **8% of annual RPKs and \$6 billion of revenues**.

Source: IATA Economics





Total number of passenger moved through Chinese airports 2003-2018







Chinese economic size quadrupled since 2003 but growth rate slowed down





China is more integrated in the global economy

Share of China in world



Computers, electronics and electrical equipment sector



Value added trade flows between China and key partners



Travel services to China and Hong Kong-China, as a share of GDP





Air connectivity of China

in terms of O-D passenger movement



Source: ICAO-ICM MIDT data



Air connectivity of Wuhan airport in terms of O-D passenger movement





COVID-19 outbreak caused a substantial setback in flight bookings for Chinese New Year

Chinese air arrivals in worldwide regions for Chinese New Year, before vs one week after the travel restrictions 10 January - 6 February, Bookings made as of 19 January and 26 January 2020. Volumes of arrivals. CNY2019 final **CNY Gold Week** 2020 vs 2019 Daily volume of Chinese travellers GNA GNS GNG GWT press pres 205th 205th 205th 205th 205th 205th 205th Travel dates from 10 January to 6 February 2020 vs. 21 January to 17 February Only considered pax staying 1 Source: ForwardKeys air reservation data. 2020, according to bookings issued as of 19 January and 26 January 2020. to 21 nights at destinations.

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Flight cancellation has exceeded actual operations since 31 January 2020



Note: The above includes a) international from mainland China, Hong Kong SAR of China, Macao SAR of China, Taiwan, Province of China; b) domestic within mainland China, and c) regional between mainland China and Hong Kong SAR, Macao SAR and Taiwan Province



Scenario Analysis: Mainland China

This is a preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.





- "International" refers to scheduled international passenger services from/to mainland China excluding:
 - scheduled passenger services between mainland China and Hong Kong Special Administrative Region (SAR) of China, Macao SAR of China and Taiwan, Province of China; and
 - scheduled international passenger services from/to Hong Kong SAR, Macao SAR of China and Taiwan, Province of China
- "Regional" refers to scheduled passenger services:
 - between mainland China and Hong Kong SAR of China
 - between mainland China and Macao SAR of China; and
 - between mainland China and Taiwan, Province of China



Scenario analysis of COVID-19 outbreak impact for 1Q 2020

- Baseline (hypothetical situation without COVID-19 outbreak)
 - Seat capacity: used "originally-planned" winter schedule
 - Load factor: applied 78% for Chinese carriers, 80% for foreign carriers and 87% for LCCs (both Chinese and foreign)
- Scenario 1 (mild)
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January; 15 and 12 percentage points lower than baseline in February and March, respectively (15 percentage points lower in March for Korea, Iran and Italy)
- Scenario 2 (severe)
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January, 25 and 22 percentage points lower than baseline in February and March, respectively (25 percentage points lower in March for Korea, Iran and Italy)

Baseline: 10% seat capacity increase compared to 1Q 2019



Source: OAG scheduled data

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Number of seats offered by airlines (1Q 2020 originally-planned)





Scenarios 1 & 2: 46% seat capacity reduction from Baseline



Source: ICAO estimates based on OAG, Routes Online and airline websites



18.0 to 18.9 million "international" passenger reduction in 1Q 2020 compared to Baseline



Scenario 2 18.9 million passenger reduction





3.5 to 3.7 million "regional" passenger reduction in 1Q 2020 compared to Baseline



Scenario 1 3.5 million passenger reduction

3.7 million passenger reduction 1.20 1.03 1.06 1.00 0.98 0.89 0.86 0.88 0.80 Number (million) 0.82 0.60 0.42 0.40 Iger 0.40 0.41 Passe 0.24 0.20 0.23 0.14 0.12 0.09 0.07 0.00 January 2020 February 2020 March 2020 Regional (Hong Kong SAR, Scenario 2) Regional (Macao SAR, Scenario 2) --- Regional (Hong Kong SAR, Baseline) Regional (Taiwan Province, Scenario 2) — — — Regional (Macao SAR, Baseline) Regional (Taiwan Province, Baseline)

Scenario 2



Approx. USD 4.8 to 5.0 billion potential loss of airline revenues for 1Q 2020 compared to Baseline



Scenario 2: USD 5.0 billion reduction



- International (Chinese carriers)
- International (Foreign carriers)
- Regional (Mainland Hong Kong SAR)
- Regional (Mainland Macao SAR)
- Regional (Mainland Taiwan Province)
- International: calculated with an average fare of USD 250 per passenger based on traffic/financial reports of CA, CZ and MU with wide variations by destination (20% lower for LCCs);
- Regional: calculated with an average fare of USD 135 per passenger based on traffic/financial reports of CA, CZ and MU (20% lower for LCCs)

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The preliminary estimates indicate the impact in terms of scheduled international passenger traffic from/to mainland China (including between mainland China and Hong Kong SAR of China, Macao SAR of China and Taiwan, Province of China) during 1Q 2020 compared to originally-planned:

- Overall reduction of 46% of seats offered by airlines
- Overall reduction of 21.5 to 22.6 million passengers
- Approx. USD 4.8 to 5.0 billion potential loss of gross operating revenues of airlines

	Estimated Impact on										
	Number of seats offered by airlines (000)				N	umber of (0	passengers 00)	Gross operating revenues of airlines (USD, million)			
Scope of analysis	Scenario 1 Scenario 2		io 2	Scenario 1		Scenario 2		Scenario 1	Scenario 2		
International from/to mainland China (Chinese carriers)	-11,600	-44%	-11,600	-44%	-9,800	-48%	-10,400	-50%	-\$2,170	-\$2,280	
International from/to mainland China (Foreign carriers)	-9,400	-48%	-9,400	-48%	-8,200	-51%	-8,500	-53%	-\$2,140	-\$2,220	
Regional between mainland China and Hong Kong SAR of China	-1,900	-50%	-1,900	-50%	-1,600	-53%	-1,700	-55%	-\$220	-\$230	
Regional between mainland China and Macao SAR of China	-700	-48%	-700	-48%	-600	-51%	-700	-53%	-\$80	-\$90	
Regional between mainland China and Taiwan, Province of China	-1,500	-45%	-1,500	-45%	-1,300	-49%	-1,300	-51%	-\$170	-\$180	
Total	-25,100	-46%	-25,100	-46%	-21,500	-50%	-22,600	-52%	-\$4,790	-\$4,990	



Scenario Analysis: Hong Kong SAR of China, Macao SAR of China and Taiwan, Province of China

This is a preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.



- **"Hong Kong International"** refers to scheduled international passenger services from/to Hong Kong Special Administrative Region (SAR) of China excluding:
 - scheduled passenger services between Hong Kong SAR of China and mainland China, Macao SAR of China and Taiwan, Province of China
- **"Macao International"** refers to scheduled international passenger services from/to Macao SAR of China excluding:
 - scheduled passenger services between Macao SAR of China and mainland China, Hong Kong SAR of China and Taiwan, Province of China
- **"Taiwan International"** refers to scheduled international passenger services from/to Taiwan, Province of China excluding:
 - scheduled passenger services between Taiwan, Province of China and mainland China, Hong Kong SAR of China and Macao SAR of China
- **"Cross-Strait"** refers to scheduled passenger services among Hong Kong SAR of China, Macao SAR of China and Taiwan, Province of China excluding:
 - "Regional" already included in the mainland China analysis



- Baseline (hypothetical situation without COVID-19 outbreak)
 - Seat capacity: used "originally-planned" winter schedule
 - Load factor: applied 80% (87% for LCCs)
- Scenario 1 (mild)
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January; 15 and 12 percentage points lower than baseline in February and March, respectively (8 and 6 percentage points lower for Taiwan, 15 percentage points lower in March for Korea and Italy)
- Scenario 2 (severe)
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January, 25 and 22 percentage points lower than baseline in February and March, respectively (13 and 11 percentage points lower for Taiwan, 25 percentage points lower in March for Korea, Iran and Italy)

Baseline: 1% seat capacity increase compared to 1Q 2019



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Number of seats offered by airlines (1Q 2020 originally-planned)





Scenarios 1 & 2: 27% seat capacity reduction from Baseline



Source: ICAO estimates



8.4 to 9.3 million passenger reduction in 1Q 2020 compared to Baseline



Scenario 1

Scenario 2 9.3 million pasenger reduction

1.69

0.92

--0.38

March 2020

0.09

Source: ICAO estimates

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Approx. USD 1.9 to 2.2 billion potential loss of airline revenues for 1Q 2020 compared to Baseline



Scenario 2: USD 2.2 billion reduction



- International (Hong Kong SAR)
- International (Macao SAR)
- International (Taiwan Province)
- Cross-strait
- Hong Kong International: calculated with an average fare of USD 287.6 per passenger with wide variations by destination (20% lower for LCCs);
- Macao International: calculated with an average fare of USD 172 per passenger (ditto);
- Cross-Strait: calculated with an average fare of USD 135 per passenger (ditto)



The preliminary estimates indicate the impact in terms of scheduled international passenger traffic from/to Hong Kong SAR of China, Macao SAR of China and Taiwan, Province of China, as well as scheduled passenger traffic among Hong Kong SAR of China, Macao SAR of China and Taiwan, Province of China, during 1Q 2020 compared to originally-planned:

- Overall reduction of 27% of seats offered by airlines
- Overall reduction of 8.4 to 9.3 million passengers
- Approx. USD 1.9 to 2.2 billion potential loss of gross operating revenues of airlines

	Estimated Impact on									
	Number of seats offered by airlines (000)			Ni	umber of (0	[;] passengers 00)	Gross operating revenues of airlines (USD, million)			
Scope of analysis	Scenar	io 1	Scenario 2 Scenario 1		o 1	Scenario 2		Scenario 1	Scenario 2	
Hong Kong International	-4,300	-30%	-4,300	-30%	-4,200	-36%	-4,700	-40%	-\$1,170	-\$1,310
Macao International	-700	-49%	-700	-49%	-600	-52%	-600	-54%	-\$110	-\$110
Taiwan International	-2,200	-17%	-2,200	-17%	-2,300	-22%	-2,600	-25%	-\$500	-\$580
Cross-Strait	-1,500	-46%	-1,500	-46%	-1,300	-50%	-1,400	-52%	-\$170	-\$180
Total	-8,700	-27%	-8,700	-27%	-8,400	-32%	-9,300	-36%	-\$1,950	-\$2,180



Summary of Scenario Analysis: China + Additional Estimates

This is a preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.



- The direct impact of COVID-19 outbreak is expected to be greater than that caused by SARS in 2003 due to higher scale of flight cancellations and bigger economic size/air travel market of China
- The preliminary estimates indicate the impact in terms of scheduled international passenger traffic from/to China (including Hong Kong SAR of China, Macao SAR of China, Taiwan, Province of China, and cross-strait services) during 1Q 2020 compared to originally-planned:
 - Overall reduction of 39% of seats offered by airlines
 - Overall reduction of **29.9 to 31.9 million passengers**
 - Approx. USD 6.7 to 7.2 billion potential loss of gross operating revenues of airlines
- The above estimates exclude, inter alia, the impact of traffic reduction related to air cargo, Chinese domestic, as well as other international services



Break-down of estimated impact in 1Q 2020

	Estimated Impact on									
	Number	offered by air 00)	Nı	umber of (0	passengers 00)	Gross operating revenues of airlines (USD, million)				
Scope of analysis	Scenario 1 Sce		Scenari	io 2	Scenario 1		Scenari	o 2	Scenario 1	Scenario 2
International from/to mainland China (Chinese carriers)	-11,600	-44%	-11,600	-44%	-9,800	-48%	-10,400	-50%	-\$2,170	-\$2,280
International from/to mainland China (Foreign carriers)	-9,400	-48%	-9,400	-48%	-8,200	-51%	-8,500	-53%	-\$2,140	-\$2,220
Regional between mainland China and Hong Kong SAR of China	-1,900	-50%	-1,900	-50%	-1,600	-53%	-1,700	-55%	-\$220	-\$230
Regional between mainland China and Macao SAR of China	-700	-48%	-700	-48%	-600	-51%	-700	-53%	-\$80	-\$90
Regional between mainland China and Taiwan, Province of China	-1,500	-45%	-1,500	-45%	-1,300	-49%	-1,300	-51%	-\$170	-\$180
Sub-total	-25,100	-46%	-25,100	-46%	-21,500	-50%	-22,600	-52%	-\$4,790	-\$4,990
Hong Kong International	-4,300	-30%	-4,300	-30%	-4,200	-36%	-4,700	-40%	-\$1,170	-\$1,310
Macao International	-700	-49%	-700	-49%	-600	-52%	-600	-54%	-\$110	-\$110
Taiwan International	-2,200	-17%	-2,200	-17%	-2,300	-22%	-2,600	-25%	-\$500	-\$580
Cross-Strait	-1,500	-46%	-1,500	-46%	-1,300	-50%	-1,400	-52%	-\$170	-\$180
Sub-total	-8,700	-27%	-8,700	-27%	-8,400	-32%	-9,300	-36%	-\$1,950	-\$2,180
Grand total	-33,800	-39%	-33,800	-39%	-29,900	-43%	-31,900	-46%	-\$6,740	-\$7,180



Domestic passenger services in mainland China in 1Q 2020

The preliminary estimates indicate the impact in terms of scheduled domestic passenger traffic within mainland China during 1Q 2020 compared to originally-planned:

- Overall reduction of 40% of seats offered by airlines
- Overall reduction of 66.6 to 75.8 million passengers
- Approx. USD 6.7 to 7.6 billion potential loss of gross operating revenues of airlines

	Estimated Impact on								
	Number of seats offered by airlines (000)			N	umber of (0	f passengers 00)	Gross operating revenues of airlines (USD, million)		
Scope of analysis	Scenari	Scenario 1 Scenario 2		Scenario 1 Scenario 2		Scenario 1	Scenario 2		
Domestic within mainland China	-76,100	-40%	-76,100	-40%	-66,600	-42%	-75,800 -48%	-\$6,460	-\$7,774
Assumption	Seat capacity 2020 and 605 from the orig (baseline)	v is reduc % in Febı ginally-pl	ed by 3% in J Tuary and Mar anned schedu	anuary rch 2020 Iles	Load factor from 83% (b to 80% for 1	s down aseline) Q 2020	Load factor is down from 83% (baseline) to 80% in January 2020, 58% in February 2020 and 65% in March 2020	Calculated with an average fare of USD 97 per passenger based on CANNews.com.cn estimates	Calculated with an average fare of USD 102.5 per passenger based on traffic/financial reports of CA, CZ and MU



Potential loss of revenues from Chinese tourists to top 5 States in 1Q 2020

Top 5 States that Chinese traveller had the largest share		Base	eline	Scena	ario 1	Scenario 2		
		Passenger number	Tourism revenue (in million USD)*	Passenger number	Tourism revenue (in million USD)*	Passenger number	Tourism revenue (in million USD)*	
Australia		460,161	446.36	340,318	330.11	296,616	287.72	
	Loss	-	-	-119,843	-116.25	-163,545	-158.64	
France		240,523	233.31	137,867	133.73	120,670	117.05	
	Loss	-	-	-102,656	-99.58	-119,853	-116.26	
		3,181,840	3,086.38	2,167,273	2102.25	1,855,034	1,799.38	
Jahan	Loss	-	-	-1,014,567	-984.13	-1,326,806	-1287.00	
Thailand		2,772,352	2,689.18	1,826,629	1771.83	1,589,458	1,541.77	
	Loss	-	-	-945,723	-917.35	-1,182,894	-1147.41	
United States		888,102	861.46	505,096	489.94	446,707	433.31	
	Loss	-	-	-383,006	-371.52	-441,395	-428.15	

• Data excludes Special Administrative Regions (SAR) of China (Hong Kong SAR and Macao SAR) and Taiwan, Province of China

• Calculated with average international tourism spending of China (USD 970) per tourist reported by UNWTO



Scenario Analysis: Republic of Korea

This is a preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.





- Scope: scheduled international passenger services from/to Republic of Korea
- Baseline (hypothetical situation without COVID-19 outbreak)*
 - Seat capacity: used "originally-planned" winter schedule
 - Load factor: applied 80% (78% for Chinese carriers, 87% for LCCs)
- Scenario 1 (mild)*
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January; 8 and 15 percentage points lower than baseline in February and March, respectively (15 and 20 percentage points lower for China and Hong Kong/Macao SARs)
- Scenario 2 (severe)*
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January; 13 and 25 percentage points lower than baseline in February and March, respectively (25 percentage points lower in February for China and Hong Kong/Macao SARs)

* Between Republic of Korea and China, Hong Kong/Macao SARs of China, as well as Taiwan, Province of China: extracted the impacts involving Korea from the respective scenarios of China, Hong Kong/Macao SARs and Taiwan Province



29% seat capacity reduction in 1Q 2020 from Baseline



Source: ICAO estimates based on OAG, Routes Online and airline websites

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7.8 to 8.5 million passenger reduction in 1Q 2020 compared to Baseline



Scenario 1 6.4 million passenger reduction

Scenario 2 7.0 million passenger reduction



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Approx. USD 1.5 to 1.7 billion potential loss of airline revenues for 1Q 2020 compared to Baseline



Scenario 2: USD 1.7 billion reduction

- Between Korea and China including Hong Kong/Macao SARs and Taiwan Province, and Italy
- Between Korea and other international destinations

- Between Korea and China, Hong Kong/Macao SARs, as well as Taiwan Province: extracted the impact involving Korea from scenarios 1 and 2 of China etc.;
- Other internal destinations: calculated with ٠ an average fare ranging from USD 155 to 485 by destination (20% lower for LCCs)



Scenario Analysis: Italy

This is a preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.



- Scope: scheduled international passenger services from/to Republic of Korea
- Baseline (hypothetical situation without COVID-19 outbreak)*
 - Seat capacity: used "originally-planned" winter schedule
 - Load factor: applied 80% (78% for Chinese carriers, 87% for LCCs)
- Scenario 1 (mild)*
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January and February (15 and 8 percentage points lower than baseline in February for China/Hong Kong SAR and Korea/Iran, respectively);
 15 percentage points lower than baseline in March
- Scenario 2 (severe)*
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: applied the same % as baseline in January and February (25 and 13 percentage points lower than baseline in February for China/Hong Kong SAR and Korea/Iran, respectively); 25 percentage points lower than baseline in March

* Between Italy and China, Hong Kong SARs of China, Taiwan, Province of China, as well as Republic of Korea: extracted the impacts involving Italy from the respective scenarios of China, Hong Kong SARs, Taiwan Province and Korea



22% seat capacity reduction in 1Q 2020 from Baseline





6.5 to 7.0 million passenger reduction in 1Q 2020 compared to Baseline



Between Italy and China including Hong Kong SAR, Republic of Korea, and Iran (Islamic Republic of)

Between Italy and other international destinations



Approx. USD 0.8 to 0.9 billion potential loss of airline revenues for 1Q 2020 compared to Baseline



Scenario 2: USD 880 million reduction



- Between Italy and China including Hong Kong SAR and Taiwan
 Province, Republic of Korea, and Iran (Islamic Republic of)
- Between Italy and other international destinations
- Between Italy and China, Hong Kong SAR and Macao SAR of China, as well as Republic of Korea: extracted the impacts involving Italy from the respective scenarios of China, Hong Kong/Macao SARs and Korea;
- Other internal destinations: calculated with an average fare ranging from USD 60 to 485 by destination (20% lower for LCCs)



Scenario Analysis: Iran (Islamic Republic of)

This is a preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.





- Scope: scheduled international passenger services from/to Iran (Islamic Republic of)
- Baseline (hypothetical situation without COVID-19 outbreak)*
 - Seat capacity: used "originally-planned" winter schedule
 - Load factor: applied 80%
- Scenario 1 (mild)*
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: used the same percentage as Baseline
- Scenario 2 (severe)*
 - Seat capacity: estimated by airlines' schedule changes
 - Load factor: 10 percentage points lower in March (i.e. 70%)

* Between Iran (Islamic Republic of) and China, as well as Italy: extracted the impacts involving Iran from the respective scenarios of China and Italy



25% seat capacity reduction in 1Q 2020 from Baseline





600,000 to 640,000 passenger reduction in 1Q 2020 compared to Baseline



Between Iran and China, Italy

Between Iran and other international destinations



Approx. USD 92 to 100 million potential loss of airline revenues for 1Q 2020 compared to Baseline



Scenario 2: USD 100 million reduction



Between Iran and China, Italy

 Between Iran and other international destinations

- Between Italy and China, Italy: extracted the impacts involving Iran from the respective scenarios of China and Italy;
- Other internal destinations: calculated with an average fare ranging from USD 105 to 370 by destination (20% lower for LCCs)



Preliminary Analysis: Japan and Singapore

This section contains a very preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.



Japan/Singapore reported the second highest confirmed cases till mid-February*



Between Japan and other international destinations (actual estimated)

International passenger seat capacity

International passenger seat capacity (Singapore)



- Between Singapore and 4 States (originally-planned)
- Between Singapore and 4 States (actual estimated)
- Between Singapore and other international destinations (originally-planned)
- Between Singapore and other international destinations (actual estimated)

* Coronavirus Disease 2019 (COVID-19) Situation Report by WHO



Preliminary Analysis: Transatlantic between United States and Schengen Area + United Kingdom/Ireland

This section contains a very preliminary analysis. Figures and estimates herein will be updated with the situation evolving and more information available.



International passenger capacity between U.S. and Schengen Area + UK/Ireland (for 30 days from 14 March with entry restrictions by the U.S. travel policy announced on 10 March 2020)





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