

**Sayı** : 38591462-010.07.03-2021-505

10.02.2021

**Konu** : ICS COVID-19 Güncel Duyurusu

Sirküler No: 162

Sayın Üyemiz,

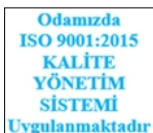
Uluslararası Deniz Ticaret Odası (International Chamber of Shipping-ICS) tarafından gönderilen 8 Şubat 2021 tarihli ekte sunulan yazıda, Dünya Sağlık Örgütü'nün (World Health Organization-WHO) yayınladığı, 7 Şubat 2021 tarihi itibarıyla bütün ülkelerden bildirilen "Yeni Koronavirüs" (COVID-19) akut solunum yolu hastalık vaka tablosunu içeren güncel istatistik bilgileri Odamıza iletilmiştir.

Bahse konu yazılarda Covid-19 vakalarının, hastaneye yatan hasta ve vefat sayılarının Avrupa ve Amerika'da önemli ölçüde artmaya devam ettiği, 7 Şubat 2021 tarihi itibarıyla toplam 105.394.301 adet Covid-19 vakası tespit edildiği, birçok ülkenin halihazırda uygun test ekipmanına sahip olmadığı için tüm vakaların rapor edilemediği ve bu nedenle sayıların artacağı belirtilmekte olup, rapor tarihi itibarıyla en fazla Covid-19 vakası tespit edilen ilk 12 ülke, Covid-19 salgını vaka ve vefat sayılarının olduğu tablo ve ülkeler hakkında güncel bilgiler bulunmaktadır.

Ayrıca yazıda, Covid-19 salgınıyla mücadele kapsamında ülkeler tarafından sürdürülen aşı programları hakkındaki gelişmelere ait bilgilerin yanı sıra aşağıdaki konular da yer almaktadır:

- Gemi personelinin aynı anda ya da ayrı ayrı aşılanması hususlarında denizcilik firmalarından görüş talep edilmekte olup, konu hakkındaki görüşlerin natalie.shaw@ics-shipping.co.uk adresine iletebileceği bildirilmektedir. Görüş talebi, aşı konusunda destek sağlamak üzere görüşmeleri planlamak için Sektörel Aşı Çalışma Grubu tarafından iletilmiştir.
- Avrupa ve Kuzey Atlantik Bölgeleri'nde (EUR/NAT) Covid-19 sebebiyle 03.02.2021 tarihi itibarıyla uygulanan kısıtlamalar hakkındaki bilgiler Ek-2'de yer almaktadır.
- Uluslararası Sivil Havacılık Örgütü (International Civil Aviation Organization – ICAO) tarafından Covid-19'un sivil havacılık sektörüne etkileri ve ekonomik etki analizi üzerine hazırlanan 27.01.2021 tarihli yazı Ek-3'de sunulmaktadır.
- ICAO tarafından 17.02.2021 tarihinde çevrim içi (Zoom) düzenlenecek olan "Halk Sağlığı Koridorları Uygulaması" konulu webinara <https://bit.ly/3tUxumK> adresinden kayıt olunabileceği belirtilmektedir.
- Dünya Sağlık Örgütü tarafından, Covid-19'a yönelik haftalık epidemiyolojik güncel bilgilerin yer aldığı 03.02.2021 tarihli bülten Ek-4'te ve operasyonel güncel bilgilerin yer aldığı 02.02.2021 tarihli bülten Ek-5'te yayımlanmıştır.

**Bu belge, 5070 sayılı Elektronik İmza Kanuna göre Güvenli Elektronik İmza ile İmzalanmıştır.**



Evrakı Doğrulamak İçin : <https://ebys.denizticaretodasi.org.tr/enVision/Dogrula/K4KNZP>  
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- Hastalık Kontrol ve Önleme Merkezleri (Centres for Disease Control and Prevention – CDC) tarafından; yolculuklarda aşya yönelik rehberlik sunan **Yeni Seyahat Gereksinimleri**, Amerika Birleşik Devletleri'ne gelen tüm havayolu yolcuları için negatif Covid-19 testi veya iyileştiğine dair kanıt gereksinimlerine yönelik bilgileri içeren **Sıkça Sorulan Sorular** dokümanı, Covid-19 virüsünün yeni varyantlarına dair bilgilerin yer aldığı **yazı** ve toplu taşımalar ile ulaşım merkezlerinde maske gereksinimi hakkında bilgiler ve **Sıkça Sorulan Sorular** dokümanı yayımlanmıştır.
- Sri Lanka'dan geçen herhangi bir gemide bulunan ve Covid-19'dan etkilenen denizcileri tedavi etmek üzere 16 Şubat 2021 tarihinden itibaren Sri Lanka'daki Galle Limanı açıklarında yer alacak Covid-19 Tedavi Merkezi hakkındaki detaylı bilgiler Ek-6'da sunulan yazıda yer almaktadır.
- Amerika Birleşik Devletleri Sahil Güvenlik (United States Coast Guard – USCG) tarafından yayınlanan, Deniz Taşımacılığında Covid-19 Güvenlik Gereksinimleri başlıklı bülten Ek-7'de yer almaktadır.

Bilgilerinize arz/rica ederim.

Saygılarımla,

İsmet SALİHOĞLU  
Genel Sekreter

**Ek:**

- 1- ICS'in 08.02.2021 Tarihli Yazısı (9 sayfa)
- 2- EUR/NAT Bölgelerinde Uygulanan Kısıtlamalar (9 sayfa)
- 3- ICAO'nun 27.01.2021 Tarihli Belgesi (125 sayfa)
- 4- WHO'nun 03.02.2021 Tarihli Yazısı (25 sayfa)
- 5- WHO'nun 02.02.2021 Tarihli Yazısı (12 sayfa)
- 6- Covid-19 Tedavi Merkezi Hakkında Yazı (8 sayfa)
- 7- USCG'nin 01.02.2021 Tarihli Bülteni (2 sayfa)

**Dağıtım:**

**Gereği:**

- Tüm Üyeler (WEB sayfası ve e-posta ile)
- İMEAK DTO Şube ve Temsilcilikleri
- Türk Armatörler Birliği
- S.S. Gemi Armatörleri Motorlu Taşıyıcılar Kooperatifi
- GİSBİR (Türkiye Gemi İnşa Sanayicileri Birliği Derneği)

**Derneği:**

- VDAD (Vapur Donatanları ve Acenteleri Derneği)
- TÜRKLİM (Türkiye Liman İşletmecileri Derneği)
- KOSDER (Koster Armatörleri ve İşletmecileri Derneği)
- Yalova Altınova Tersane Girişimcileri San.ve Tic.A.Ş.
- UTİKAD (Uluslararası Taşımacılık ve Lojistik Hizmet Üretenleri Derneği)

**Bilgi:**

- Yönetim Kurulu Başkan ve Üyeleri
- İMEAK DTO Şube YK Başkanları
- İMEAK DTO Çevre Komisyonu
- İMEAK DTO Meslek Komite Başkanları

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İSTANBUL VE MARMARA, EGE, AKDENİZ, KARADENİZ BÖLGELERİ

ISTANBUL & MARMARA, AEGEAN, MEDITERRANEAN, BLACKSEA REGIONS

# DENİZ TİCARET ODASI CHAMBER OF SHIPPING



- Türk Uzakyol Gemi Kaptanları Derneği
- GEMİMO (Gemi Makineleri İşletme Mühendisleri Odası)

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8 February 2021

**COVID-19(21)12**

**TO: LABOUR AFFAIRS COMMITTEE  
ALL MEMBERS & ASSOCIATE MEMBERS  
BIWEEKLY MEMBERS MEETING PARTICIPANTS  
INTERNATIONAL ASSOCIATION GROUP PARTICIPANTS**

**COVID-19 UPDATE AS OF 8 FEBRUARY 2021**

**Action Required: *Members are invited to note:***

- *Information below provided by WHO for 7 February 2021 and general epidemiological information on Covid 19 issued by WHO. Covid case numbers, hospital admissions and deaths continue to substantially increase across Europe and the Americas.*
- **105,394,301** Confirmed cases of COVID-19, **3310957** additional cases have been confirmed since last week's report. 3.14 % last week. There were also increased fatalities **2,302,302** deaths recorded which is additional deaths 4.04% growth last week. Many countries still cannot report all cases, so numbers will considerably increase. Currently **223** Countries, areas or territories have cases.
- *Member organisations are invited to ask Shipping Companies about whether crew members should be vaccinated concurrently or separately and to advise the Director of Employment Affairs ([Natalie.Shaw@ics-shipping.co.uk](mailto:Natalie.Shaw@ics-shipping.co.uk)). The information is requested by the Industry Vaccination Taskforce to assist planning how to lobby for vaccination support.*
- Members are invited to note the following documents attached for information:
  - EUR/NAT Brief on Restrictions due to COVID-19: 3 February 2021 Annex 1
  - Effects of Novel Coronavirus (COVID-19) on Civil Aviation: Economic Impact Analysis: 27 January 2021 Annex 2
  - Webinar - Public Health Corridors Application: *Held in English on 17 February 2021 at 0900 EST time on Zoom.*  
*In order to register for the webinar, please click on the following link:*  
[https://icao.zoom.us/webinar/register/WN\\_45L5wnmKTzuUb1SKA3w71Q](https://icao.zoom.us/webinar/register/WN_45L5wnmKTzuUb1SKA3w71Q)  
*For anybody who wants to learn more about Public Health Corridors, especially Focal Points. Additionally, please share registration information with public health authorities to also learn about the application.*
  - WHO Weekly Epidemiological Update: 3 February 2021 Annex 3
  - WHO Weekly Operational Update: 2 February 2021 Annex 4
  - CDC [New Travel requirements](#) (Includes guidance on vaccination to travel): 2 /2/21
  - CDC Requirement for Proof of Negative COVID-19 Test or Recovery from COVID-19 for All Air Passengers Arriving in the United States. [FAQ for passengers and Aircraft Operators/Airlines/Crew](#): 3 February 2021
  - CDC [New Variants of the Virus that Causes COVID-19](#): 2 February 2021

- CDC update [Requirement for Face Masks on Public Transportation Conveyances & at Transportation Hubs](#) (inc all passengers & all personnel operating conveyances): 2 /2/21

### SITUATION IN NUMBERS BY WHO REGION

Region	Cases	Deaths
Global	<b>105,394,301</b>	<b>2,302,302</b>
Africa	2,655,316	65,736
Americas	46,913,216	1,092,521
Eastern Mediterranean	5,828,434	136,946
Europe	35,481,004	780,934
South-East Asia	13,033,797	200,267
Western Pacific	1,481,789	25,885

### TOP 12 COUNTRIES WITH CASES AS AT YESTERDAY (Top first)

	THIS WEEK	LAST WEEK	
1	USA	USA	The Same
2	India	India	The Same
3	Brazil	Brazil	The Same
4	Russia	Russia	The Same
5	UK	UK	The same
6	France	France	The same
7	Spain	Spain	The same
8	Italy	Italy	The same
9	Turkey	Turkey	The same
10	Germany	Germany	The same
11	Columbia	Columbia	The same
12	Argentina	Argentina	The same

### TOP 12 COUNTRIES

	INCREASED CASES YESTERDAY	HIGH FATALITIES YESTERDAY
1	USA	USA
2	Brazil	Mexico
3	France	Brazil
4	UK	UK
5	Russia	Russia
6	Italy	Italy
7	Mexico	Argentina
8	Indonesia	South Africa
9	India	Columbia
10	Germany	Germany
11	Argentina	Portugal
12	Peru	Indonesia

## **Vaccines**

Scientists are developing booster jabs to tackle Covid-19 variants, a health minister says, amid concerns about the Oxford-AstraZeneca vaccine's efficacy against the South Africa strain. The vaccine provides good protection against the dominant UK 'Kent' variant. A small study suggests it offers minimal protection against mild disease from the South Africa variant. 147 cases of the variant were found in the UK. In South Africa, where the variant known as 501.V2 or B.1.351 accounts for 90% of new Covid cases, the Oxford-AstraZeneca vaccine rollout has been put on hold awaiting further advice. Early research suggests other vaccines are also likely to offer less protection against the South African variant than against the original virus. South Africa's suspension of the rollout of the vaccine is only temporary now and the context differs from the UK where the Kent Variant is the dominant strain.

Dr English, a communicable disease control specialist hopes to see new vaccines available tailored to the South African variant within months as the technology is well-established. The South African mutations change the part of the virus that vaccines target meaning all vaccines produced to date are likely to be affected in some way. Trials for Novavax and Janssen vaccines conducted in South Africa showed less effectiveness against this variant.

Prof Madhi, who led the South African Oxford-AstraZeneca vaccine trial said there was "still some hope" the jab may perform well against the South Africa variant in protecting against severe disease. He said he was extrapolating that from the efficacy of the Johnson & Johnson vaccine which used similar technology and had similar immune effects.

## **Australia**

Please note information kindly provided by MIAL which has advised of the following Border Closure Changes More information is available directly on their website.

<https://mial.com.au/members/novel-corona-virus-update>.

Southern Australia: New Cross Border Travel Direction No. 34. Greater Melbourne added to the list of restricted locations and high-risk sites (Melbourne) identified with testing and quarantine requirements for arrivals. Essential traveller exemptions. These changes do not include the announced removal of the hard border with Western Australia.

Tasmania : New Direction in Relation to Persons Arriving in Tasmania. Vessels arriving in Tasmania must provide information to Biosecurity Tasmania. Vessels must arrive at approved maritime entry points, which includes all the major ports. Travellers from high-risk areas must not travel to Tasmania's islands without approval.

Australian Capital Territory has opened its borders with all states and Northern Territory. Arrivals from Victorian exposure sites must quarantine and get tested.

Queensland: From 1am 06/02/21 the South West region of Western Australia will be removed as a COVID-19 hotspot. LGAs in the Metropolitan Perth and Peel regions of Western Australia will remain hotspots until 1am on 14/02/21.

Western Australia: Some restrictions to ease but movement out of Perth-Peel region still restricted. Domestic maritime workers should make a G2G application – it appears they can now apply either via the regional or interstate portal.

New South Wales – can now accommodate seafarer flying in above the international passenger cap by application.

Western Australia – details re how to make G2G application intra-State.

Southern Australia – Premier’s announcement not yet reflected in directions.

Queensland – MSQ update #139

Commonwealth/National Cabinet - increases to incoming passenger cap announced, some interesting comments re vaccines.

## **Austria**

Austria has eased its lockdown measures, despite stubbornly high infection rates and appearance of more infectious virus strains. Schools have reopened, with pupils receiving regular antigen tests. Non-essential shops, museums and zoos have also opened again, with limits on customer numbers. Hairdressers and beauticians are now open, but people will have to show negative Covid tests before getting their hair cut. FFP2 masks are mandatory in shops and confined public spaces. Restaurants and hotels remain closed.

There’s some concern about the move to ease restrictions, particularly with the emergence of some cases of the South African variant in the province of Tyrol.

Chancellor Sebastian Kurz announcing easing restrictions last week, said the safest course of action would be to maintain lockdown, but children needed to return to school and to curb unemployment. The lockdown will be reimposed if numbers of new infections get too high.

## **Dubai**

Dubai has announced plans to help the UN distribute two billion coronavirus vaccines to some of the world’s poorest countries in the year ahead. The city will combine its extensive network of air and sea transport resources as it acts as a global supply hub. Emirates, Skycargo and DP World will form a logistics alliance to expedite global transport of urgently needed vaccines through Dubai. Dubai already has one of the world's largest centres specialising in aid distribution logistics and now plans to combine all its cargo-handling facilities and expertise to support the vast global effort to vaccinate against coronavirus. Last week, a Dubai-based international port management organisation agreed to help the UN ship vaccines to low and middle-income countries at no cost.

## **Europe**

Europol, the EU law enforcement agency, has warned that criminals are selling fake negative Covid-19 test certificates. The fear is this could enable people to cheat travel restrictions. It comes as a BBC investigation also found falsified NHS certificates for sale online.

## **Israel**

Israel's vaccination programme is showing signs of driving down infections and illness in the over-60s. The fall appears most pronounced in older people and areas furthest ahead with immunisation. This suggests it is the vaccine, not the current lockdown, taking effect.

Israeli Ministry of Health figures show 531 over-60s, out of almost 750,000 fully vaccinated, tested positive for Covid (0.07%). Far fewer fell ill, with 38 becoming hospitalised with

moderate, severe or critical disease a tiny proportion. It assessed medical records of almost a million people, 743,845 were over 60 until at least seven days after having a second vaccine dose. There were three deaths in vaccinated over-60s which may have contracted the infection earlier, before immunity could build. Before the vaccine had time to take effect, over 7,000 infections were recorded, just under 700 cases of moderate to critical illness and 307 deaths. Data suggests infections and illnesses fell consistently from 14 days after a first jab. While the biggest fall observed was in people seven days after a second dose of the vaccine, this cannot be used to determine whether it is appropriate to delay second doses.

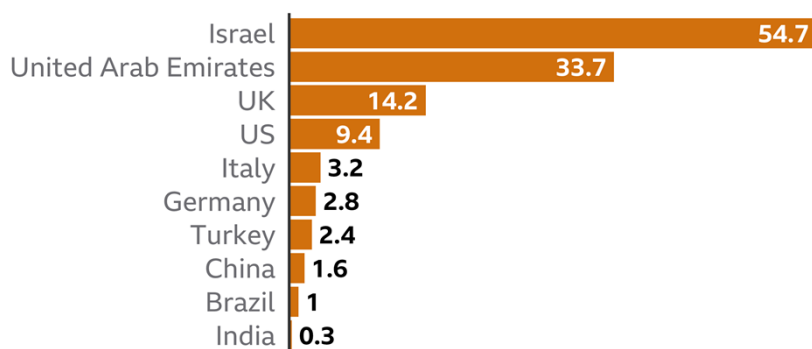
Israel has consistently given both doses no more than three weeks apart. The first dose is not expected to provide protection for at least two weeks so it is not possible to untangle impact of the second dose from the first dose starting to become effective. The first dose takes longer to show any effect as it primes the immune system to recognise and fight off the virus.

Israel has delivered five million vaccine doses to about nine million people and about one million people have received two doses. The jury is still out on whether the vaccine completely stops people from carrying and passing on Covid. Currently, while many people remain unvaccinated, those jabbed are being told to socially distance and wear masks.

The Ministry of Health's data only reviewed infections and illness in vaccinated people and did not involve a control group of unvaccinated people. However, a team of researchers at the Weizmann Institute of Science, Tel-Aviv University, and Technion Israel Institute of Technology attempted to confirm if the observed fall in cases is due to the vaccine or just the effect of lockdown restrictions. Prof Rossman, Prof Segal, and Dr Shalit analysed national data by age and city and identified bigger falls in infections and hospitalisations both in the over-60s, who were vaccinated first and in cities which vaccinated the largest proportion of their populations first. These relative changes were not seen in earlier lockdowns. This gives early encouraging signs linking the falls to the vaccine and not just to current restrictions.

Maccabi Israel's second-largest healthcare provider published figures showing 66 people of 248,000 vaccinated (0.03%) caught Covid, over a week after receiving a second vaccine dose. All had mild symptoms and none hospitalised. Maccabi compared the infection rate with 900,000 unvaccinated people with a similar demographic profile. In this group during the same time 8,250 caught Covid over 30 times as many. They estimated the vaccine was 92% effective when used in a population similar to the 95% Pfizer found in a controlled clinical trial.

## Vaccine doses per 100 people in countries with highest total vaccinations



Note: Total vaccinations refers to the number of doses given, not necessarily the number of people vaccinated

Source: Our World In Data, 0900 GMT on 1 Feb with latest available data





## **Japan**

Information kindly provided by JSA. On February 2, the Prime Minister announced the extension of the State of Emergency against COVID-19 until March 7 for Tokyo, Osaka, and other eight prefectures.. Crew change in Japan is still allowed under strict restrictions.

### **[On-signers]**

Seafarers who have stayed in the UK, South Africa, Ireland, Brazil, and Israel in the last 14 days: Must stay in the designated facility for three (3) days. They must take a COVID-19 test on the third day and be released 4th day if the result is negative.

- Seafarers coming from other countries:  
All seafarers (including Japanese nationals) from any country (except the UK, South Africa, Ireland, Brazil, and Israel) are requested to submit a certificate of the negative test result of the pre-entry COVID-19 test conducted within 72 hours before boarding.
- If seafarers may not have an effective negative certificate, they shall take the same process as for seafarers from the UK, South Africa, Ireland, Brazil, and Israel.
- Where seafarers can embark on a vessel within a quarantine period, seafarers can move to the vessel.

### **[Off-signers]**

If vessels arrive in Japan within 14 days after departure from a foreign port, any seafarers who are planning disembarkation shall take a Covid-19 test on-arrival (unless the quarantine officer exempts them). Seafarers must stay on board, waiting for the result. During this period, cargo operation is not allowed. A second PCR test is also required after three days from the first one. Ports where the COVID-19 test is available may be limited. Disembarkation in Japan is still not easy (especially for a short-voyage-vessel).

In any case above, seafarers cannot use public transportation.

## **Portugal**

Portugal has become to latest country to advise against using the AstraZeneca Covid-19 vaccine for people over 65. However, the health ministry says vaccination of a person over 65 years should not be delayed if the AstraZeneca vaccine is the only one available. It is the latest recommendation from an EU member state approving the jab with restrictions, citing insufficient data on its efficacy for older people. The EU drugs regulator has approved the AstraZeneca vaccine for all adults, but each member determines its own roll-out policy.

The first batch of AstraZeneca vaccines arrived in Portugal on Sunday, numbering 42,300 doses. Germany, France, Austria and Norway have said they will only administer the shot to under-65s, with Poland limiting it to under-60s, and Spain and Italy to under-55s

## **South Korea**

Cats and dogs will be tested for Covid-19 if they display symptoms, the city government of Seoul says. The testing programme in Seoul comes several weeks after South Korea reported its first Covid-19 case involving a kitten in Jinju.

Only cats and dogs exhibiting symptoms, such as fever, coughing and breathing difficulties, will be tested. If a pet tests positive, they must isolate at their owner's home for 14 days. Various animals globally, including tigers, gorillas and mink, have tested positive for Covid during the pandemic. Infectious disease experts say there is no evidence animals significantly

spread the virus causing Covid-19. Currently, there are no known cases of pets passing Covid to humans. The probability of this is considered low.

## **Spain**

Please find below an update on the travel restrictions published in recent weeks in the Official Spanish Gazette: This has kindly been provided by Anave.

On 3 February, flights between the Federal Republic of Brazil/ Republic of South Africa and Spanish airports were restricted until 09:00 h of 17 February 2021. The Order establishes that any flight proceeding from any airport in Brazil or South Africa and leading to any airport in Spain, with or without stopovers, will only be permitted to transport nationals from Spain or Andorra, or residents in Spain or Andorra or passengers in international transit to a non-Schengen country doing a stopover of less than 24 hours without leaving the transit area of the Spanish airport. There are no exceptions for seafarers.

Restrictions for flights and passenger ships proceeding from United Kingdom to Spain were extended until 18:00 h of 16 February 2021. Flights proceeding from UK with Spain as destination, with or without stopovers, will only be permitted to transport nationals of Spain or Andorra, or residents in Spain or Andorra. Seafarers arriving in Spain from the UK are exempt.

Border controls between Portugal and Spain are being established again until 01:00 h of 10 February 2021. There are exemptions for those travelling regarding working reasons, hence seafarers are included. Since 15 January there are restrictions to travel to UK. Passengers over 11 years old arriving to their territory by means of sea, air or land must present a negative Covid-19 test done 72 had prior to the departure. Seafarers are exempted from this restriction as far as they demonstrate they work onboard a ship (employment contract or seaman's book).

Extension of temporary restriction of non-essential trips from third countries to the EU and associated Schengen countries until 24:00h of 28 February 2021. Seafarers are exempted.

## **Sri Lanka**

Members are advised that a Multinational Offshore Covid-19 Treatment Centre is being introduced positioned off the Port of Galle in Sri Lanka from 16th February 2021 to accept and treat COVID-19 afflicted seafarers from any ship passing Sri Lanka so that ships can continue trading without any interruption. Full details are attached at Annex 5.

## **United Kingdom**

Up to 88% of people still have antibodies in their blood to fight Covid six months after infection, according to a study of almost 1,700 people. Data from one of the world's largest follow-up Covid studies also provides detail about likely symptoms experienced by those infected. While 26% had a cough and 28% a fever, a bigger proportion 43% lost the sense of taste or smell. However, 40% had none of these and about 20% had no symptoms at all.

The data also supports previous studies on who is most likely to be infected with Covid at some point during the pandemic. Among a group of nearly 20,000 people who were regularly tested monthly during the pandemic, younger adults, black or South Asian people and those living in deprived areas were most likely to test positive for the antibodies.

The UK Biobank collates data on blood, urine and saliva samples, heart and brain scans and the genetic data of half a million people who volunteered to have information analysed to assist global medical research. Just under 20,000 of these participants each gave a blood

sample every month between 27 May and 4 December 2020. 1,699 tested positive for antibodies indicating a past Covid-19 infection.

Most already tested positive in the first month of the study, suggesting acquisition of the infection in the first wave. By the end of the study, six months later, 88% still had detectable antibodies. This echoes findings from previous, smaller studies in healthcare workers. It is possible that some or all of the 12% whose tests went from positive to negative retained some protection against subsequent infection although their antibodies fell below the study threshold. Not everyone was equally likely to show signs of previous infection.

The antibody study mirrors other data showing groups hit hardest by the virus. Among the 20,000 participants, 16% of the black people tested positive for antibodies, compared with: 14% of South Asian people, 8.5% of white people and 7.5% of Chinese people. There were regional differences too, with Londoners most likely to have antibodies and people in Scotland least likely. 13.5% of the adults under 30 tested positive, compared with 6.7% of the over-70s.

An Office of National Statistics study of blood test results from a random sample of people over 16, found around one in seven English people had antibodies in their blood in mid-January. The figure was one in nine in Wales, one in 11 in Northern Ireland and one in 10 in Scotland. This suggests people were previously infected with the virus but it is unlikely to be the total infected since the start of the epidemic as antibodies although present for at least six months after infection decline over time. Vaccinations also increase antibodies in those given jabs, to help fight off the virus.

## **United States**

A letter from federal maritime commissioners Bentzel and Maffei is the latest effort made by union leaders, port officials and politicians to move dockworkers up the vaccination queue.

The Port of Los Angeles executive director Gene Seroka told Lloyd's List logistics companies, port directors and union officials have worked every angle possible since December to receive help with testing and vaccinating dockworkers, but no results have been achieved. 'We haven't seen a longshore worker get a vaccine yet,' said Mr Seroka.

Federal maritime commissioners pleaded President Biden for US maritime workers to get priority for vaccinations against Covid. The letter from commissioners Bentzel and Maffei is the latest effort by union leaders, port officials and politicians at all levels to move dockworkers up the queue for vaccination. They noted the workers critical role in moving medical supplies, personal protective equipment and handling an unprecedented amount of consumer goods at gateway ports. They said a large-scale workforce disruption from Covid would be disastrous for immediate and long-term fluidity of the supply chain and delivering goods to Americans. They cited figures from the US west coast's International Longshore and Warehouse Union and the Pacific Maritime Association showing 1,034 maritime workers contracted Covid in California, Washington and Oregon. They also referred to numbers from the International Longshoremen's Association, representing workers on the east and US Gulf coasts, showing 784 positive tests with 1,855 quarantines from last March to January 25.

In December, directors of five US west coast ports, along with representatives of the ILWU and Pacific Maritime Association wrote to the governors of California, Oregon and Washington to request priority treatment for workers. Port of Los Angeles executive director Seroka told Lloyd's List that logistics companies, port directors and ILWU officials have worked every angle possible since then to get help with testing and vaccinating dockworkers with no result. Port of Long Beach executive director Cordero said that the coronavirus vaccine should be

distributed immediately to longshore and other waterfront workers in the US. As of February 1, LA County has received just 800,000 vaccine doses for its 10m residents. Executive Order 13998, *Promoting COVID-19 Safety in Domestic and International Travel*, requires masks to be worn on all public maritime vessels, including ferries", the USCG issued MSIB 02-21 providing further context and clarification. This is attached at Annex 6.

Please note:

Regarding enforcement, USCG created an email ([wearamask@uscg.mil](mailto:wearamask@uscg.mil)) for any persons wishing to report vessels not operating in accordance with the Executive Order or CDC Order.

Vessels that do not implement the mask requirement may be issued a Captain of the Port (COTP) order directing the vessel's movement and operations; repeated failure to impose the mask mandate could result in civil penalties and/or criminal action.

Natalie Shaw  
Director Employment Affairs

## BRIEF ON EUR/NAT STATES RESTRICTIONS DUE TO COVID-19

(Tuesday, 02 February 2021)

### Disclaimer

*The purpose of this Brief is for information. All operational stakeholders are requested to consult the most up-to-date AIS publications.*

*The sources of this Brief are the NOTAM Summary published on EUROCONTROL Network Operations Portal, the ICAO ISTARs Portal (NOTAMs issued by States explicitly including COVID-19 related information) and IATA travel centre (COVID-19) website.*

Country	Status / Restriction
<b>Albania</b>	Tirana international airport is closed to all flights from/to UK due to COVID-19 infection prevention with exemptions granted ATFM exemptions for flights delivering vaccines
<b>Algeria</b>	<i>Flights to Algeria are suspended except State, cargo, medevac, technical landings where crews and passengers do not disembark, private purpose flights and repatriation flights; all with permission from the Algerian CAA</i>
<b>Andorra</b>	<i>Apply the relevant Coronavirus (COVID-19) regulations of France or Spain, whichever must be transited to enter Andorra.</i>
<b>Armenia</b>	-A completed awareness questionnaire must be presented upon arrival; -All pax will pass medical check in upon arrival and in case of symptoms of COVID -19 they will be isolated to hospital; -Entrance will be forbidden to any foreign citizen with symptoms who refuses the hospitalization; -All arriving pax must pass a PCR test at the airport, the result will be available in 48 hours, during this period the passenger must undergo self-isolation quarantine, in case of negative result self-isolation regime will be cancelled; -The certificate with a PCR negative test result is also if performed not later than 72 hours before arrival; -Entry and exit are permitted of the cargo, pax, military and medical flight crews, who do not have detected symptoms of virus; More information: <a href="https://www.mfa.am/en/COVID-19/2020/11/05/covid_updates/10632">https://www.mfa.am/en/COVID-19/2020/11/05/covid_updates/10632</a> ATFM exemptions for flights delivering vaccines
<b>Austria</b>	<i>Pax restrictions with exemptions granted/pax entry requirements</i> <a href="https://www.austria.info/en/service-and-facts/coronavirus-information/entry-regulations">https://www.austria.info/en/service-and-facts/coronavirus-information/entry-regulations</a> Flights from UK, Brazil and South Africa are prohibited to land until 07 February 2021 with exemptions granted Aircraft operators are obliged to collect contact details of pax if coming from the affected countries LOWG, LOWS, LOWI, LOWK availability LOXT, LOXZ crew/pax requirements LOGG PPR ATFM exemptions for flights delivering vaccines
<b>Azerbaijan</b>	Resumption of international pax flights only after agreement of Government of Azerbaijan taking into account epidemiology situation and other restrictions, more info: <a href="https://www.azal.az/upload/pdf/Covid-Provisional-rules-EN%20.pdf">https://www.azal.az/upload/pdf/Covid-Provisional-rules-EN%20.pdf</a>

	<i>Pax restrictions until 31 March 2021 with exemptions granted; Negative COVID-19 PCR test result requirement at most 48 hours before departure of the last direct flight to Azerbaijan</i>
<b>Belarus</b>	-Pax must have a negative COVID-19 PCR test result with exemptions granted; -Pax are subject to self-isolation for 10 days if arriving from a country listed at: <a href="http://minzdrav.gov.by/ru/dlya-belorusskikh-grazhdan/strany-krasnoy-zony.php">http://minzdrav.gov.by/ru/dlya-belorusskikh-grazhdan/strany-krasnoy-zony.php</a>
<b>Belgium</b>	<i>Pax entry restrictions until 01 March 2021; more info:</i> <a href="https://www.info-coronavirus.be/en/travels/">https://www.info-coronavirus.be/en/travels/</a> <a href="https://mobilite.belgium.be/en/aviation">https://mobilite.belgium.be/en/aviation</a> EBBR pax flights will only be allowed to operate between 0500UTC and 2200UTC for departures and between 0430UTC and 2200UTC for arrivals; with exemptions granted EBCF limited to home-based aircraft and other essential traffic. ATFM exemptions for flights delivering vaccines
<b>Bosnia and Herzegovina</b>	Pax must have a medical certificate with a negative COVID-19 PCR test result issued at most 48 hours before arrival, with exemptions granted ATFM exemptions for flights delivering vaccines
<b>Bulgaria</b>	Pax restrictions until 30 April 2021 with exemptions granted/pax entry conditions LBGO availability ATFM exemptions for flights delivering vaccines
<b>Croatia</b>	<i>Pax restrictions until 15 February with exemptions granted</i> <a href="https://mup.gov.hr/uzg-covid/english/286212">https://mup.gov.hr/uzg-covid/english/286212</a> ATFM exemptions for flights delivering vaccines
<b>Cyprus</b>	All flight restrictions to/from Cyprus removed; AOs to familiarise themselves with procedures for health protocol published on IATA TIMATIC Pax on international flights to Cyprus complete the required documents electronically on the online platform within 24hrs before the flight <a href="http://www.cyprusflightpass.gov.cy">www.cyprusflightpass.gov.cy</a> General requirements for aircraft operators regarding observance of restrictions in Cyprus and pax information ATFM exemptions for flights delivering vaccines <i>Pax restrictions/ entry requirements/ exemptions</i>
<b>Czechia</b>	<i>Foreign pax are not allowed to enter except:</i> <i>- nationals of Andorra, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland (Rep.), Italy, Japan, Korea (Rep.), Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, Thailand and Vatican City (Holy See); other exemptions granted</i> <i>Pax entry requirements</i> ATFM exemptions for flights delivering vaccines
<b>Denmark</b>	<i>Flights from Iceland to Greenland are suspended until 28 February 2021</i> Pax flights from UAE with destination within Kobenhavn FIR are not accepted Foreign pax not allowed except: - residents of Australia, Iceland, Japan, New Zealand, Singapore, South Korea and Thailand; - pax residing in banned third and in high-risk countries must have a worthy purpose (stricter entry requirements apply to persons resident in the UK or South Africa, except Danish nationals) and present proof of a negative COVID-19 test result Other restrictions/ entry requirements and exemptions; <a href="https://coronasmitte.dk/en/entry-into-denmark">https://coronasmitte.dk/en/entry-into-denmark</a> Flights with pax who cannot present a negative COVID-19 (exemptions granted) test result from a test performed within 24 hours prior to boarding the aircraft, are not permitted to land in Denmark (tests performed in UAE are not accepted) EKVD, EKVJ closed for public access EKAH, EKKA availability

	<p>EKMB PPR  EKCH pax flights only between 0500UTC and 2259UTC  EKAT domestic flights only  EKYT, EKKA, EKSP no foreign military aircraft flights will be accepted at Danish military installations. PPR for special cases  <b>Greenland:</b> All civil flights from outside BGGL FIR, are banned from landing at aerodromes within BGGL FIR  BGTL closed with exemptions granted  ATFM exemptions for flights delivering vaccines</p>
<b>Estonia</b>	<p><i>Pax restrictions/entry conditions with exemptions granted</i>  <a href="https://vm.ee/en/information-countries-and-self-isolation-requirements-passengers">https://vm.ee/en/information-countries-and-self-isolation-requirements-passengers</a>  ATFM exemptions for flights delivering vaccines</p>
<b>Finland</b>	<p>Finland has started to open borders for pax traffic with some restrictions listed here:  <a href="http://www.raja.fi/en">www.raja.fi/en</a>  Pax restrictions with exemptions granted  EFTU limited control service and some other restrictions  ATFM exemptions for flights delivering vaccines</p>
<b>France</b>	<p>France maintains controls at its external borders and restricts travel;  Travel between France and abroad, except EU member states, Andorra, Iceland, Liechtenstein, Monaco, Norway, San Marino, Switzerland and Vatican, shall only be authorised for an imperious personal or family reason, an emergency health reason or a professional reason that cannot be deferred. Other restrictions, requirements:  <a href="https://www.gouvernement.fr/en/coronavirus-covid-19">https://www.gouvernement.fr/en/coronavirus-covid-19</a>  Pax aged 11 years or older traveling by public air transport to France from a foreign country, prior to boarding, a negative COVID-19 test carried out less than 72 hours before the flight, a sworn statement and other requirements; with exemptions  ATFM exemptions for flights delivering vaccines  LFLS, LFMH, LFQQ availability  LFBH 48h PPR for international extra-Schengen and intra-Schengen flights</p>
<b>Georgia</b>	<p><i>Pax restrictions/entry requirements with exemptions granted;</i>  <a href="http://www.mfa.gov.ge/">www.mfa.gov.ge/</a> <a href="http://www.stopcov.ge">www.stopcov.ge</a>  ATFM exemptions for flights delivering vaccines</p>
<b>Germany</b>	<p>Temporary travel restriction for non-essential travel from all Non EU / Schengen area countries to Germany; with exemptions granted (This does not include flight restrictions)  Pax/crew entry requirements by the Federal Ministry of Health  <a href="https://www.bundesgesundheitsministerium.de/coronavirus/current-information-for-travellers.html">https://www.bundesgesundheitsministerium.de/coronavirus/current-information-for-travellers.html</a>  Pax arriving from high risk countries must register before departure at  <a href="https://www.einreiseanmeldung.de">https://www.einreiseanmeldung.de</a>  ATFM exemptions for flights delivering vaccines  EDCP, EDDE closed  EDAH, EDDG, EDDR, EDLP, EDNY, EDVE, EDVK, EDXH availability  EDBH, EDDC, EDHN, EDLA, EDTM, EDXI, EDXW PPR</p>
<b>Greece</b>	<p>Commercial flights and GA/BA to-from Turkey are prohibited with exemptions granted  All flights from Albania and North Macedonia, commercial and GA/BA, are permitted only to Athens International Airport (LGAV). Flights to other Greek Aerodromes are suspended with exemptions granted  All commercial and GA/BA flights originating from any aerodrome in the territory of Catalonia of Spain to any aerodrome in Greece are suspended  Pax restrictions/entry requirements  <a href="https://travel.gov.gr/#/">https://travel.gov.gr/#/</a>  Only essential travel, properly documented, is allowed for pax on all domestic flights, commercial and general/business aviation with exemptions</p>

	<p>Non-EU citizens are prohibited to enter Greece except citizens and permanent residents from the States of Australia, Japan, New Zealand, Rwanda, South Korea, Thailand, UAE, Singapore, UK, the Russian Federation and Israel ; exemptions granted</p> <p>ATFM exemptions for flights delivering vaccines</p> <p>LGKO PPR LGSK restrictions</p>
<b>Hungary</b>	<p>Schengen borders are suspended and border crossing point is available only at: LHBP, LHDC, LHPR, LHSM</p> <p>Pax restrictions with exemptions granted/pax entry requirements <a href="https://www.bud.hu/en/covid_19/information_on_entering_and_leaving_hungary">https://www.bud.hu/en/covid_19/information_on_entering_and_leaving_hungary</a></p> <p>ATFM exemptions for flights delivering vaccines</p> <p>LHPR availability LHNY home based aircraft only</p>
<b>Iceland</b>	<p><i>Pax restrictions with exemptions granted</i> <a href="https://www.logreglan.is/english/regarding-travel-restrictions-to-iceland-as-a-result-of-covid-19/">https://www.logreglan.is/english/regarding-travel-restrictions-to-iceland-as-a-result-of-covid-19/</a> <a href="https://www.covid.is/english">https://www.covid.is/english</a></p>
<b>Ireland</b>	<p>Pax entry requirements; <a href="https://www2.hse.ie/conditions/coronavirus/travel.html">https://www2.hse.ie/conditions/coronavirus/travel.html</a></p> <p>ATFM exemptions for flights delivering vaccines</p> <p>EIDW aircraft parking limitations</p>
<b>Israel</b>	<p>Foreign pax/crew are prohibited to enter the country; with exemptions granted</p> <p>All international foreign flights are prohibited, with exemptions</p>
<b>Italy</b>	<p>All flights arriving from Brazil are prohibited till 04 April 2021 with exemptions granted</p> <p><i>Pax restrictions until 05 March 2021 with exemptions granted</i> For further info: <a href="http://www.enac.gov.it">www.enac.gov.it</a></p> <p>Entry and transit in the national territory is regulated as prescribed with the decrees of President of Council Minister of 14/01/2021 (<a href="http://www.governo.it">www.governo.it</a>) and also according to ordinances of the Ministry of Health</p> <p>All flights arriving/departing to/from Italy must comply with the requirements of the Decree of the minister of infrastructures and transport and minister of health no 245 of 14 Jun 2020</p> <p>ATFM exemptions for flights delivering vaccines</p> <p>LIBG, LIPH closed with exemptions granted LIFE pax boarding, disembarking and immigration operations may be delayed LIPQ non-scheduled flights and GA are allowed only if authorized with 24H PPR LIRJ availability LIMP AD security, administration and handling not provided LILA home based aircraft only LIDA, LIDB, LIDG, LIDR, LIDH, LIDL, LIDP, LIDU, LIDT, LIPD, LIPF, LIPG, LIPM, LIPN, LIPU, LIPV, LIRU, LIRV, LIRL, LIQN traffic subject to limitations</p>
<b>Kazakhstan</b>	<p><i>Airports are closed for international flights except from: Belarus, Egypt, Germany, Korea (Rep.), Kyrgyzstan, Netherlands, Russian Fed., Turkey, Ukraine, UAE, Uzbekistan and all repatriation flights; Other exemptions granted</i></p> <p><i>Pax are not allowed to transit or enter Kazakhstan with exemptions granted</i></p> <p><i>Pax must have a medical certificate with a negative COVID-19 PCR test result issued at most 3 days before arrival</i></p> <p><i>Suspension of visa exemptions for nationals of several countries</i></p>
<b>Kyrgyzstan</b>	<p><i>Foreign pax must have a printed medical certificate with a negative COVID-19 PCR test result. The test must have been taken at most 72 hours before departure of the first embarkation point. Except:</i></p> <ul style="list-style-type: none"> <li>- passengers younger than 8 years;</li> <li>- passengers with a diplomatic passport.</li> </ul>



	<i>Passengers could be subject to COVID-19 test upon arrival. Visa on arrival facilities have been reinstated</i>
<b>Latvia</b>	EVRA - scheduled pax flights are not accepted from countries outside EU and EEA; except Switzerland and UK; All others countries are subject to individual approval ATFM exemptions for flights delivering vaccines <i>Pax restrictions/entry requirements</i> <a href="https://www.mfa.gov.lv/en/consular-information/news/66019-emergency-situation-in-latvia-to-restrict-the-spread-of-covid-19">https://www.mfa.gov.lv/en/consular-information/news/66019-emergency-situation-in-latvia-to-restrict-the-spread-of-covid-19</a>
<b>Lithuania</b>	<i>Foreign pax are not allowed to enter except:</i> <i>- nationals and residents of Andorra, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland (Rep.), Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, Norway, Poland, Portugal, Romania, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland and Vatican City (Holy See) and UK;</i> <i>Other exemptions/ entry requirements.</i> <a href="http://koronastop.lrv.lt/en/">http://koronastop.lrv.lt/en/</a> ATFM exemptions for flights delivering vaccines EYPA closed
<b>Luxembourg</b>	<i>Foreign pax restrictions/entry requirements until 31 March 2021 with exemptions</i> ATFM exemptions for flights delivering vaccines
<b>Malta</b>	Pax requirements; <a href="https://www.maltairport.com/declarationforms">https://www.maltairport.com/declarationforms</a> The order of travel ban on persons to/from Malta is extended, with the following exceptions: -Cargo flights, ferry flights, humanitarian flights, and repatriation flights shall be exempt from this order; -Pax arriving from Austria, Cyprus, Czech Republic, Denmark, Estonia, Finland, Hungary, Iceland, Ireland, Germany, Latvia, Lithuania, Luxembourg, Norway, Italy, France, Slovakia, Switzerland, Greece, Croatia, Spain, Poland, Belgium, Bulgaria, Netherlands, Canada, Australia, New Zealand, South Korea, Andorra, Monaco, San Marino, China, Vatican City, Rwanda, Uruguay, Slovenia, Japan, Morocco, Thailand, Tunisia, Portugal, Romania, Lebanon, Indonesia, UAE, Turkey, Jordan, Liechtenstein and Sweden shall be exempt from this order provided that they have not been in any country not in the above list in the 14 days prior to their arrival in Malta. -Exemption may be granted by the superintendent of public health for persons traveling to/from countries not on the list, where such travel is deemed necessary or essential; Operators shall obtain prior approval from the Malta Civil Aviation Directorate on email: <a href="mailto:dutyofficer.cad@transport.gov.mt">dutyofficer.cad@transport.gov.mt</a> , before any operations. Pax arriving from Andorra, Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Estonia, France (except Île-de-France Region), Germany (except Baden-Württemberg), Greece (except Attiki), Hungary, Indonesia, Ireland, Italy (except Sicily and Sardinia), Japan, Jordan, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Monaco, Morocco, Netherlands, Poland, Portugal (except Madeira, Azores), Romania, San Marino, Slovakia, Slovenia, Spain (except Canarias), Sweden, Switzerland, Thailand, Tunisia, Turkey, Uruguay and Vatican City should present a negative Covid-19 polymerase chain reaction (PCR) taken within 72 hours of their arrival before boarding flights to Malta. Pax who fail to produce the PCR Covid-19 test on arrival, may be submitted to testing in Malta and may be subject to a quarantine order issued by the superintendent of public health. Pax arriving from the UK will be subject to mandatory quarantine for 14 days starting from their arrival ATFM exemptions for flights delivering vaccines

<b>Moldova</b>	All scheduled and non-scheduled passenger flights to and from airports of the Republic of Moldova are permitted and shall be operated under conditions specified in the CAA Operational Directive nr.08-13/06/2020 published on: <a href="http://www.caa.md/eng/documents/directives/">http://www.caa.md/eng/documents/directives/</a>
	<i>Pax who have been in or transited through Andorra, Czechia, Estonia, Ireland, Israel, Latvia, Lebanon, Lithuania, Malta, Monaco, Montenegro, Netherlands, Panama, Portugal, San Marino, Slovakia, Slovenia, Spain, Sweden, USA, UAE or UK in the past 14 days are not allowed to enter; exemptions granted</i>
<b>Monaco</b>	<i>Pax restrictions/ entry requirements with exemptions granted</i> <a href="https://covid19.mc/en/">https://covid19.mc/en/</a>
<b>Montenegro</b>	Special entry conditions for pax coming from UK
	ATFM exemptions for flights delivering vaccines
	LYPG availability
<b>Morocco</b>	All flights from/to Morocco are suspended until further notice except over flight and cargo. Crew members of cargo must remain on board and stopovers shortened. Special flights of foreign airlines are allowed on request by their government with condition of having authorization from the air transportation directorate (DTA/DGAC) via the ministry of foreign affairs of Kingdom of Morocco. The Moroccan airlines will schedule special flights, after a coordination with the Ministry of Foreign Affairs, and must request authorization from DTA/DGAC The flights must be operated taking into account the health conditions imposed by competent authorities of each countries. The authorized airlines must respect the conditions of access to the national territory, related to passengers, imposed by competent authorities.
	All flights to-from UK, South Africa, Denmark, Australia, Brazil, Ireland and New Zealand are suspended with exemptions granted; Pax from those countries above, travelling through another country are not allowed to enter Morocco
	Pax entry requirements
<b>Netherlands</b>	All flights departing from Cape Verde, UK, South Africa and all countries within South-America (Argentina, Bolivia, Brazil, Chile, Colombia, Dominican republic, Ecuador, French -Guyana, Guyana, Panama, Paraguay, Peru, Surinam, Uruguay and Venezuela) with destination to Netherlands are prohibited to enter the Netherlands with exemptions granted
	Restrictions regarding GA flights
	<i>Pax restrictions with exemptions granted/entry requirements</i> <a href="https://www.government.nl/topics/coronavirus-covid-19/visiting-the-netherlands-from-abroad">https://www.government.nl/topics/coronavirus-covid-19/visiting-the-netherlands-from-abroad</a>
	ATFM exemptions for flights delivering vaccines
	EHLE, EHGG, EGSE availability EHEH PPR
<b>North Macedonia</b>	<i>Coronavirus (COVID-19) entry regulations lifted on 1 July 2020</i>
	ATFM exemptions for flights delivering vaccines
<b>Norway</b>	<i>Pax restrictions/ entry requirements;</i> <a href="http://www.helsenorge.no/en/coronavirus">www.helsenorge.no/en/coronavirus</a>
	International passenger flights to Norway will temporarily only be accepted to the following airports: ENTC, ENBO, ENVA, ENAL, ENBR, ENHD, ENZV, ENCN, ENTO, ENGM; except military flights.
	ENTO availability
	ATFM exemptions for flights delivering vaccines
<b>Poland</b>	<i>Pax restrictions/ entry requirements with exemptions granted</i> <a href="https://www.gov.pl/web/coronavirus/travel">https://www.gov.pl/web/coronavirus/travel</a>

	ATFM exemptions for flights delivering vaccines
<b>Portugal</b>	Flights from/to non-EU member states are prohibited to land at/depart from Portuguese aerodromes. Exempted flights are: Flights to-from Liechtenstein, Norway, Iceland, Switzerland, Australia, China, South Korea, Japan, New Zealand, Rwanda, Singapore, Thailand, Hong Kong and Macao (including also residents of these countries whenever they have only carried out international transits or transfers at airports located in countries that are not in this list) and flights exclusively for essential travel. Other exemptions granted
	All flights, commercial or private, from all airlines, departing from/to Brazil and UK destination to/from Portuguese aerodromes or airports are suspended until 14 February 2021 with exemptions granted
	ATFM exemptions for flights delivering vaccines
	<i>Pax restrictions/ entry requirements with exemptions granted</i> <a href="https://www.visitportugal.com/en/content/covid-19-measures-implemented-portugal">https://www.visitportugal.com/en/content/covid-19-measures-implemented-portugal</a>
	LPBR closed with exemptions LPCS, LPIN, LPSO availability LPPT aircraft parking limitations
<b>Romania</b>	<i>Pax restrictions/entry requirements until 13 February 2021</i> <a href="https://www.mae.ro/en/node/30320">https://www.mae.ro/en/node/30320</a>
	ATFM exemptions for flights delivering vaccines
	LROP aircraft parking limitations
<b>Russian Federation</b>	Gradual resumption of flights to some States
	<i>Flights from the United Kingdom to the Russian Fed. are suspended until 16 February 2021, business aviation flights might be permitted on an individual basis</i>
	<i>Pax restrictions/ entry requirements with exemptions granted</i>
<b>San Marino</b>	<i>Pax restrictions until 05 March 2021 with exemptions</i>
<b>Serbia</b>	Pax entry requirements/exemptions: <a href="http://www.mfa.gov.rs/en/themes/covid173202019">http://www.mfa.gov.rs/en/themes/covid173202019</a>
	ATFM exemptions for flights delivering vaccines
<b>Slovakia</b>	<i>Pax entry requirements</i> <a href="https://www.mzv.sk/web/en/covid-19">https://www.mzv.sk/web/en/covid-19</a>
	LZKZ availability
	ATFM exemptions for flights delivering vaccines
<b>Slovenia</b>	Pax entry conditions with exemptions granted: <a href="https://www.gov.si/en/topics/coronavirus-disease-covid-19/border-crossing/">https://www.gov.si/en/topics/coronavirus-disease-covid-19/border-crossing/</a>
	All international flights arriving to any public airport in FIR LJLA shall make first landing at international airports LJLJ, LJMB or LJPZ, with exemptions granted
	ATFM exemptions for flights delivering vaccines
<b>Spain</b>	Third country nationals not allowed with exemptions granted
	Pax entry requirements with exemptions <a href="https://www.spth.gob.es/more">https://www.spth.gob.es/more</a>
	<i>Flights from the United Kingdom to Spain are suspended until 16 February 2021 with exemptions</i>
	<i>Flights from the Brazil and South Africa to Spain are suspended until 17 February 2021 with exemptions</i>
	Airlines operating at Spanish airport should comply with pax/crew mandatory guidelines in resolution of 17 December 2020, of Spanish aviation safety and security agency (AESA); should submit to AESA statement of compliance with the above mentioned guideline
	ATFM exemptions for flights delivering vaccines
	LERS, LEVX only pax charter flights will be accepted with 72HR PPR

<b>Sweden</b>	All foreign pax prohibited to enter Sweden, except pax from Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark (from 15 February on), Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway (from 15 February on), Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Switzerland and UK (from 15 February on). Nationals of these countries and their family members of the countries above who is coming from third countries are exempted; other exemptions granted <a href="https://polisen.se/en/the-swedish-police/the-coronavirus-and-the-swedish-police/travel-to-and-from-sweden/">https://polisen.se/en/the-swedish-police/the-coronavirus-and-the-swedish-police/travel-to-and-from-sweden/</a>
	ATFM exemptions for flights delivering vaccines
	Persons travelling to Sweden from Denmark, Norway, or UK shall be refused entry into Sweden until 15 February 2021 with exemptions granted
<b>Switzerland</b>	Foreign pax are not allowed except nationals of EEA States and pax arriving from Schengen States and from Andorra, Australia, Bulgaria, Canada, Croatia, Cyprus, Ireland, Japan, South Korea, Monaco, New Zealand, Romania, Rwanda, San Marino, Singapore, Thailand, Vatican City; other exemptions granted
	Pax entry requirements; <a href="http://www.bag.admin.ch/entry">www.bag.admin.ch/entry</a>
	All flights to-from UK, South Africa are suspended until 07 February with exemptions granted
	ATFM exemptions for flights delivering vaccines
	LSGE, LSZB, LSZH availability LSZL operational restrictions
<b>Tajikistan</b>	<i>Flights to Tajikistan are suspended until 20 February 2021:</i> - <i>This does not apply to flights arriving from China (People's Rep.), Turkey, UAE and Uzbekistan;</i> - <i>This does not apply to humanitarian, medevac and repatriation flights;</i> - <i>Foreign pax restrictions except Turkish nationals;</i> - <i>Pax/crew requirements</i>
<b>Tunisia</b>	Gradually resuming commercial flights; requirements listed; details in AIC06/20; <a href="http://www.oaca.nat.tn">www.oaca.nat.tn</a>
	<i>Flights to-from Australia, Denmark, South Africa or United Kingdom are suspended and pax from these countries are not allowed to enter or transit with exemptions granted</i>
	<i>Pax entry requirements with exemptions granted</i>
<b>Turkey</b>	All flights from Brazil, UK, Denmark and South Africa are suspended until further notice with exemptions granted
	Pax entering or transiting through Turkey must have a medical certificate with a negative COVID-19 PCR test result taken at most 72 hours before arrival except crew, pax under 6 years old, transit and transfer pax
	ATFM exemptions for flights delivering vaccines
<b>Turkmenistan</b>	<i>Flights to Turkmenistan are suspended until 01 February 2021;</i> <i>This does not apply to repatriation flights</i>
	<i>Pax/crew must have a medical certificate with a negative COVID-19 RT-PCR test result issued at most 24 hours before departure from the first embarkation point</i>
	<i>Pax are subject to a COVID-19 RT-PCR test upon arrival and self-isolation for 21 day</i>
<b>Ukraine</b>	<i>Pax entry requirements;</i> <a href="https://www.visitukraine.today/">https://www.visitukraine.today/</a>
	UKKK aircraft operator should report epidemiological situation on board
	ATFM exemptions for flights delivering vaccines
<b>United Kingdom</b>	Travel corridors were suspended for anywhere outside the UK, Ireland, the Channel Islands or the Isle of Man <a href="https://www.gov.uk/guidance/coronavirus-covid-19-travel-corridors">https://www.gov.uk/guidance/coronavirus-covid-19-travel-corridors</a>
	Pax entry requirements with exemptions: <a href="https://www.gov.uk/uk-border-control/before-you-leave-for-the-uk">https://www.gov.uk/uk-border-control/before-you-leave-for-the-uk</a>
	Various requirements for OPS into UK and at individual airports

	Commercial and private pax flights where the last point of departure was South Africa, Argentina, Brazil, Chile, Cape Verde, Portugal and UAE will be prohibited from landing with exemptions granted
	ATFM exemptions for flights delivering vaccines
	EGCK, EGMD, EGNC closed with exemptions EGAA, EGBE, EGBJ, EGCB, EGCN, EGEC, EGDI, EGDM, EGDY, EGDN, EGFF, EGGD, EGGP, EGHH, EGHQ, EGNE, EGNJ, EGNT, EGNV, EGNX, EGPE, EGPB, EGPC, EGPI, EGPN, EGSS, EGTE, EGVP availability EGFE closed for non-essential traffic, PPR EGUN crew/pax restrictions EGJA, EGJB PPR
<b>Uzbekistan</b>	<i>Flights to Uzbekistan are suspended except from: Algeria, Azerbaijan, Bahrain, Bangladesh, Belarus, Belgium, Bulgaria, Canada, China (People's Rep.), Croatia, Cyprus, Czechia, Egypt, Estonia, Finland, France, Georgia, Greece, Hungary, India, Indonesia, Ireland (Rep.), Israel, Japan, Kazakhstan, Korea (Rep.), Kuwait, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Malaysia, Malta, Nepal, Oman, Pakistan, Poland, Portugal, Qatar, Romania, Russian Fed., Saudi Arabia, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Thailand, Turkey, USA, Ukraine and UAE</i>
	<i>Pax who have been in the past 14 days in Australia, Austria, Denmark, Germany, Italy, Netherlands, South Africa or the United Kingdom are not allowed to enter and transit until 1 March 2021, except nationals of Uzbekistan; Other pax entry requirements with exemptions</i>

- END -



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

Montréal, Canada

27 January 2021

Economic Development – Air Transport Bureau





- **Executive Summary:  
Economic Impact in Brief**
- **Scenario Building**
  - Analytical consideration
  - Shapes of Economic Recession and Recovery
  - Indicative Scenarios and Paths Forward
- **Estimated 2020 Results and Near-term Outlook: Global**
- **Estimated 2020 Results and Near-term Outlook: Regional Breakdown**
  - Africa
  - Asia/Pacific
  - Europe
  - Latin America/Caribbean
  - Middle East
  - North America
- **Appendix**
  - A. Overview of Early Impact
  - B. Scenario Assumptions in Detail
  - C. Estimated Results at Route Group Level
  - D. Summary of Analysis by Other Organizations



## Executive Summary: Economic Impact in Brief

Figures and estimates herein are **subject to substantial changes**, and will be updated with the situation evolving and more information available.





The estimated COVID-19 impact on world scheduled passenger traffic for year 2020, compared to 2019 levels:

- Overall reduction of **50% of seats offered by airlines**
- Overall reduction of **2,690 million passengers (-60%)**
- Approx. **USD 370 billion loss** of gross passenger operating revenues of airlines

#### International passenger traffic

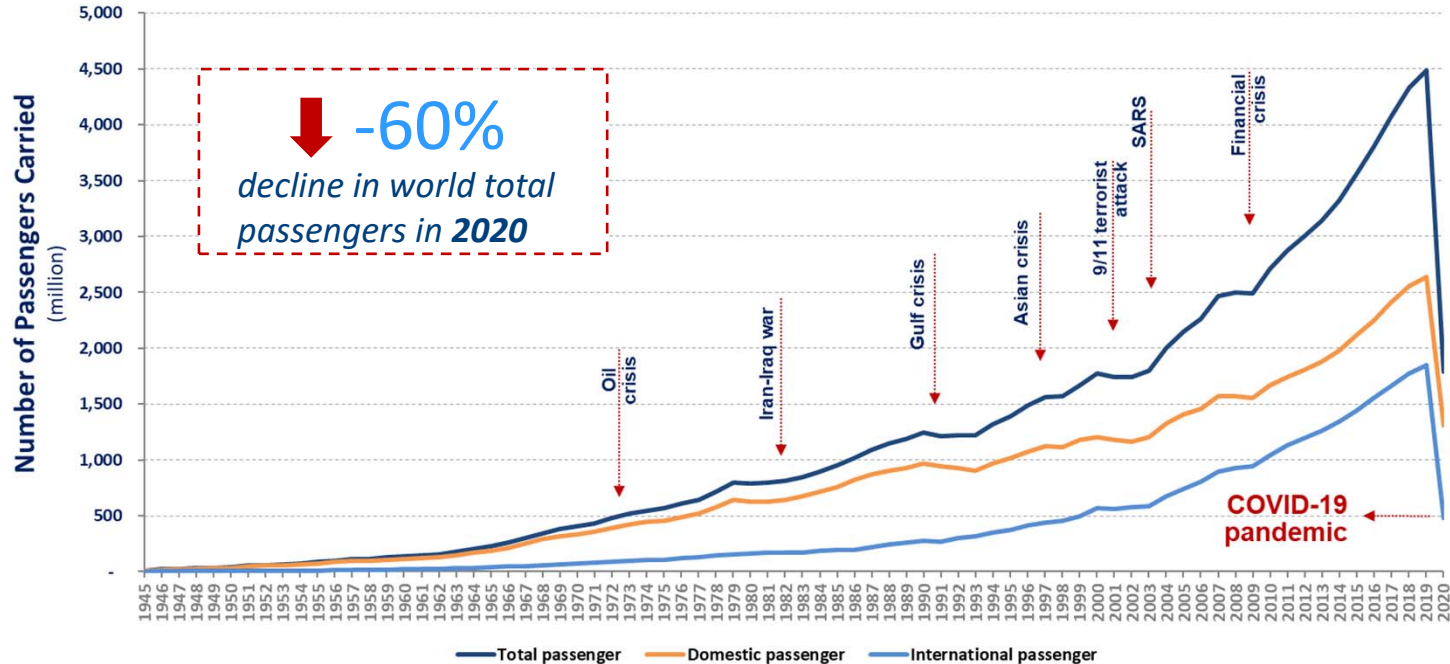
- Overall reduction of **66% of seats offered by airlines**
- Overall reduction of **1,376 million passengers (-74%)**
- Approx. **USD 250 billion loss** of gross operating revenues of airlines

#### Domestic passenger traffic

- Overall reduction of **38% of seats offered by airlines**
- Overall reduction of **1,314 million passengers (-50%)**
- Approx. **USD 120 billion loss** of gross operating revenues of airlines

# World passenger traffic collapses with unprecedented decline in history

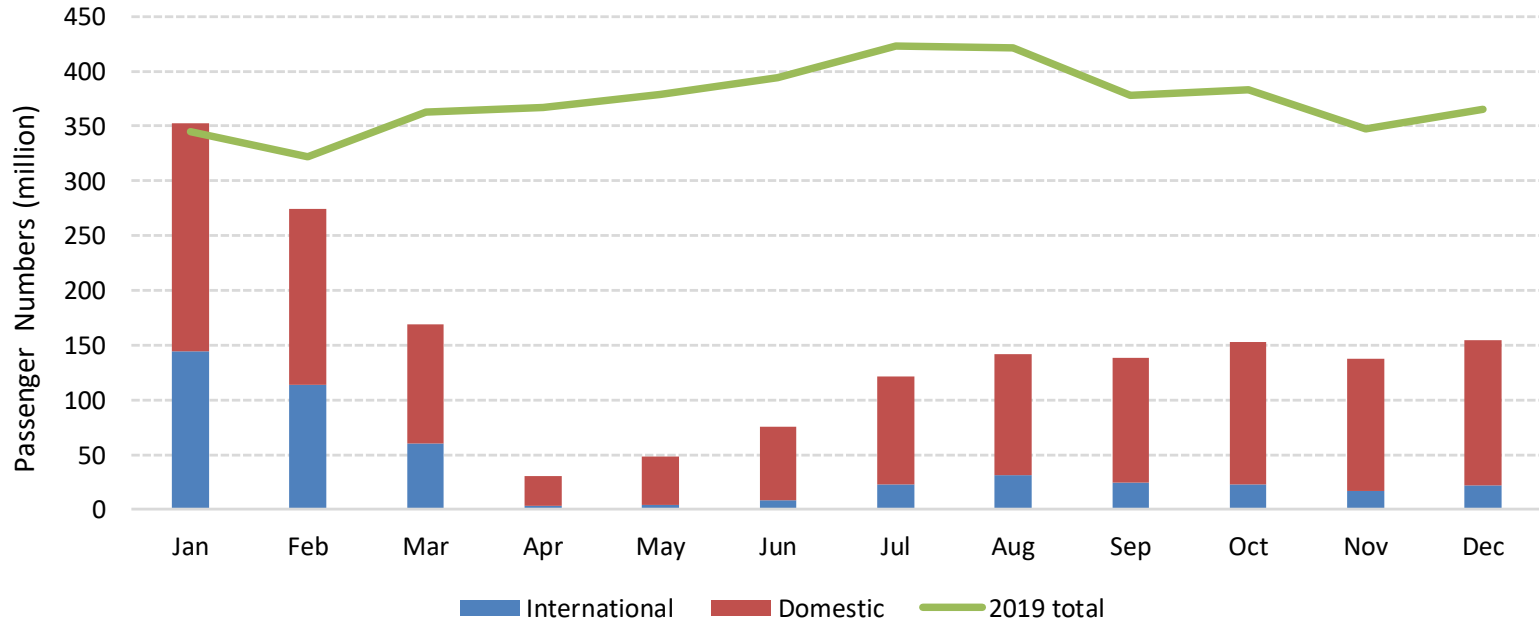
## World passenger traffic evolution 1945 – 2020





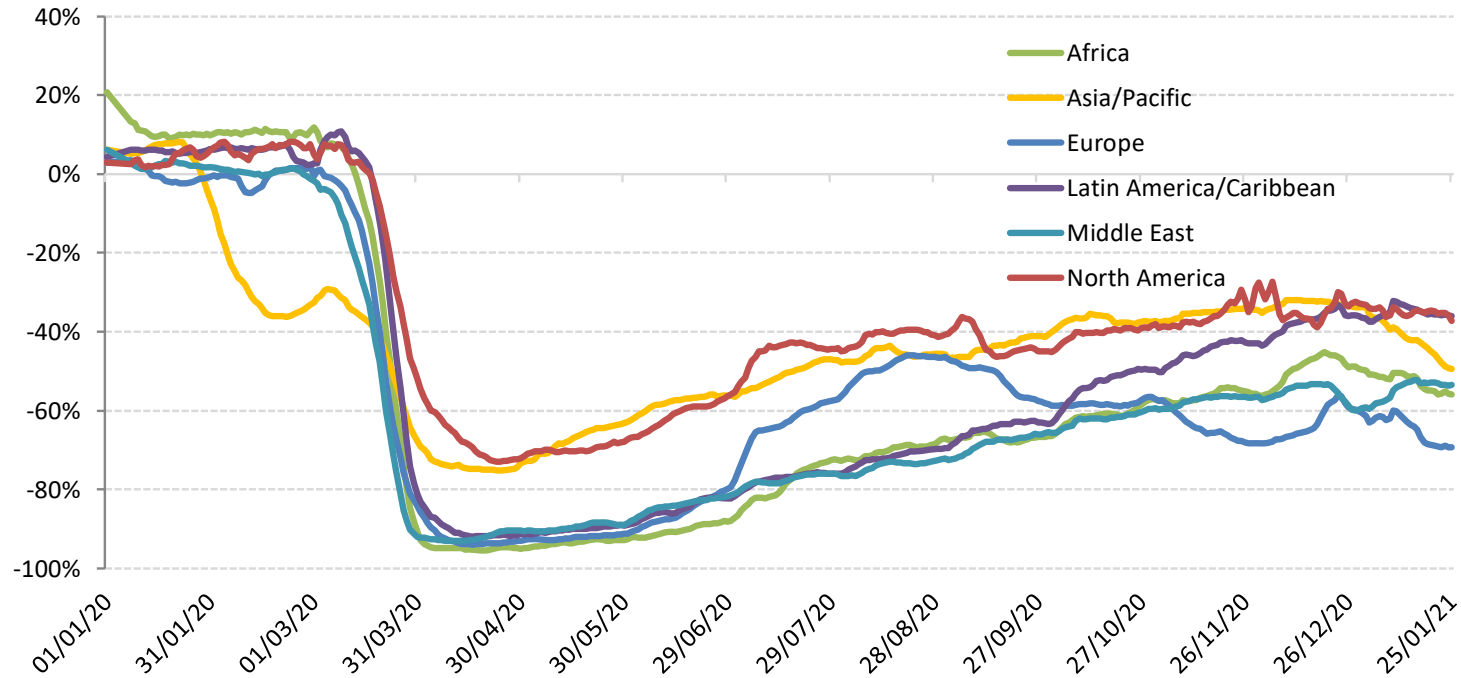
# Moderate recovery in domestic travel while international travel remained stagnant

## Monthly passenger numbers in 2020 vs. 2019



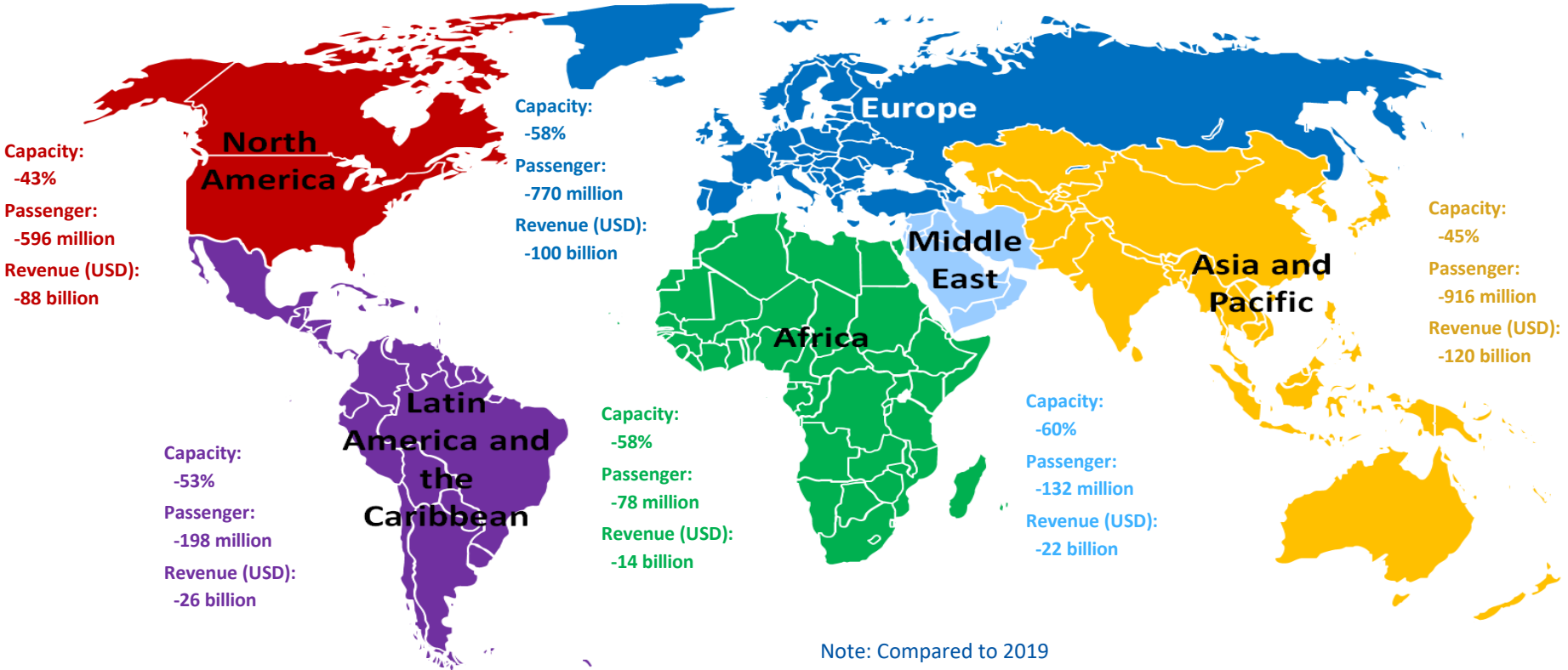


## Comparison of total seat capacity by region (7-day average, YoY compared to 2019)





# Estimated impact on passenger traffic and revenues by region for 2020



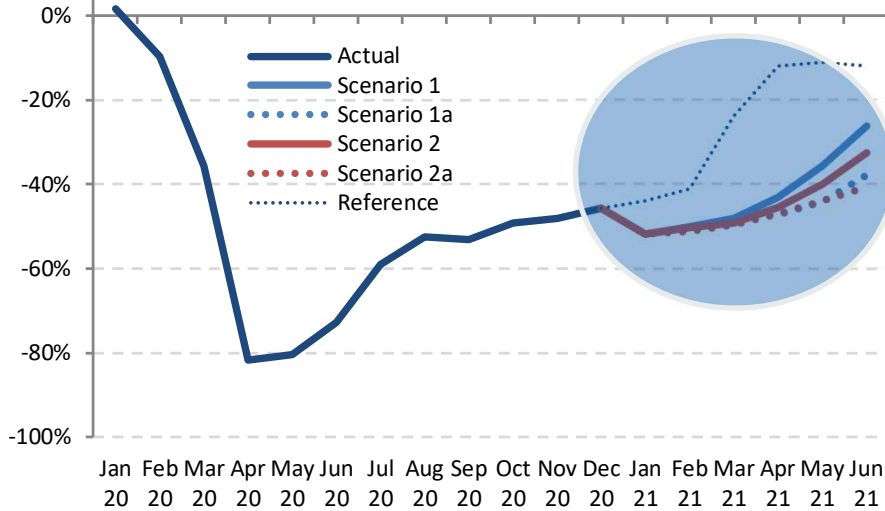
Note: Compared to 2019



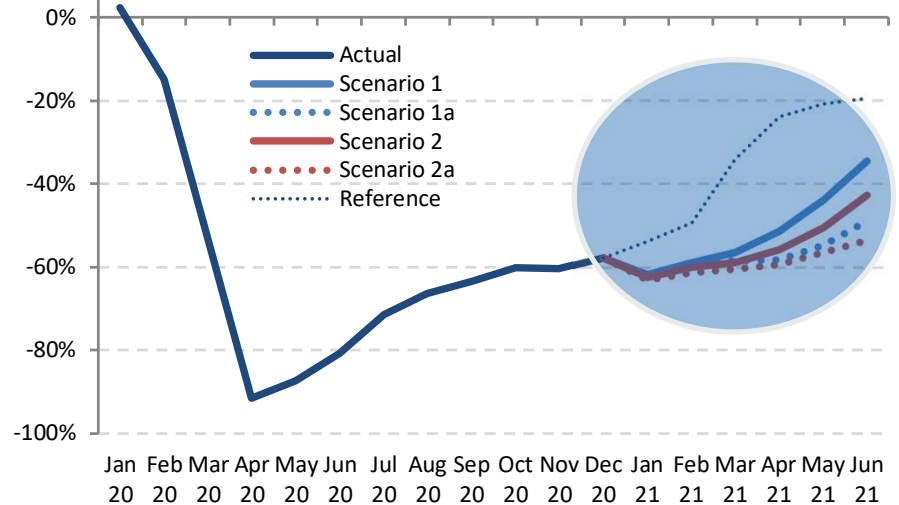
- **Air passenger traffic**: An overall reduction of air passengers (both international and domestic) ranging from 60% in 2020 compared to 2019 (by **ICAO**)
- **Airports**: An estimated loss of approximately 64.2% of passenger traffic and 65% or over USD 111.8 billion airport revenues in 2020 compared to business as usual (by **ACI**)
- **Airlines**: A 66.3% decline of revenue passenger kilometres (RPKs, both international and domestic) in 2020 compared to 2019 (by **IATA**)
- **Tourism**: A decline in international tourism receipts of between USD 910 to 1,170 billion in 2020, compared to the USD 1.5 trillion generated in 2019, with 100% of worldwide destinations having travel restrictions (by **UNWTO**)
- **Trade**: A fall of global merchandise trade volume by 9.2% in 2020 compared to 2019 (by **WTO**)
- **Global economy**: A projected -3.5% to -4.3% contraction in world GDP in 2020, far worse than during the 2008–09 financial crisis (by **IMF and World Bank**)

# Near-term outlook: Due to uncertainty, consider 4 different paths

**Scenarios for passenger seat capacity**



**Scenarios for passenger number**



The actual impacts will depend on duration and magnitude of the outbreak and containment measures, the degree of consumer confidence for air travel, and economic conditions, etc.

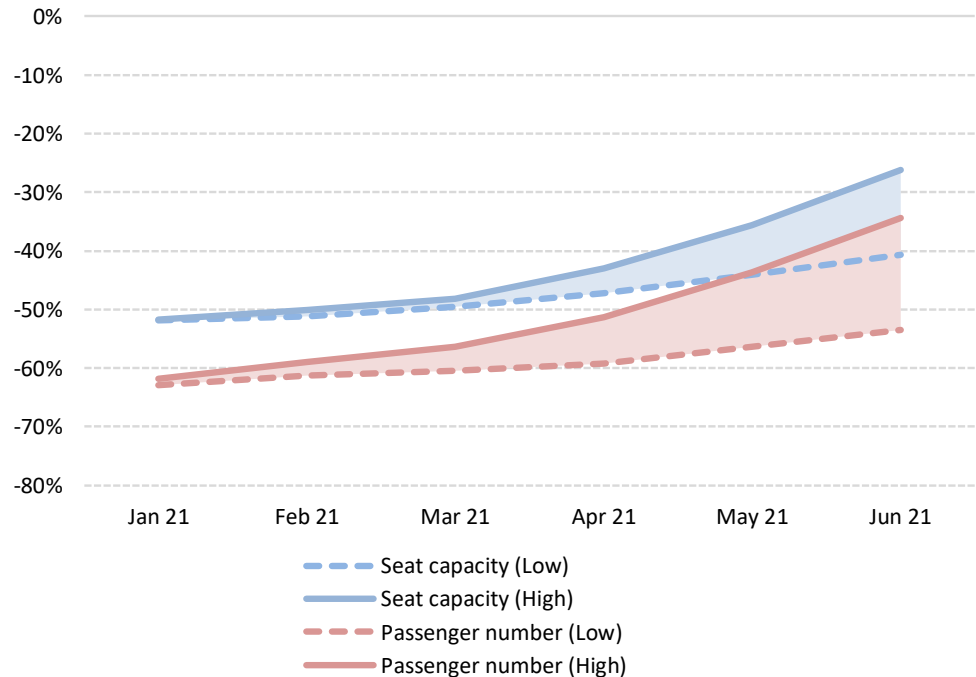


## Near-term outlook: World total passenger traffic

The estimated COVID-19 impact on world scheduled passenger traffic for the first half of year 2021 (January to June 2021), compared to 2019 levels:

- Overall reduction ranging from **42% to 47% of seats offered by airlines**
- Overall reduction of **1,096 to 1,275 million passengers (-47% to -57%)**
- Approx. **USD 156 to 181 billion loss** of gross passenger operating revenues of airlines

Outlook 1Q/2Q 2021 (compared to 2019 levels)







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# Scenario Building



- Analysis focuses on simultaneous supply shock and drop in demand
  - in a near-term, i.e. monthly profile **from January 2020 to June 2021**
  - in terms of scheduled **passenger traffic** globally
- Taking into account the heterogeneity, distinction is made:
  - between international and domestic
  - by month (seasonality)
  - by six (6) geographical region and/or 50 route groups used in ICAO's long-term traffic forecasts (LTF)
- Analysis is based on forward-looking scenarios, which will be continuously adjusted and updated



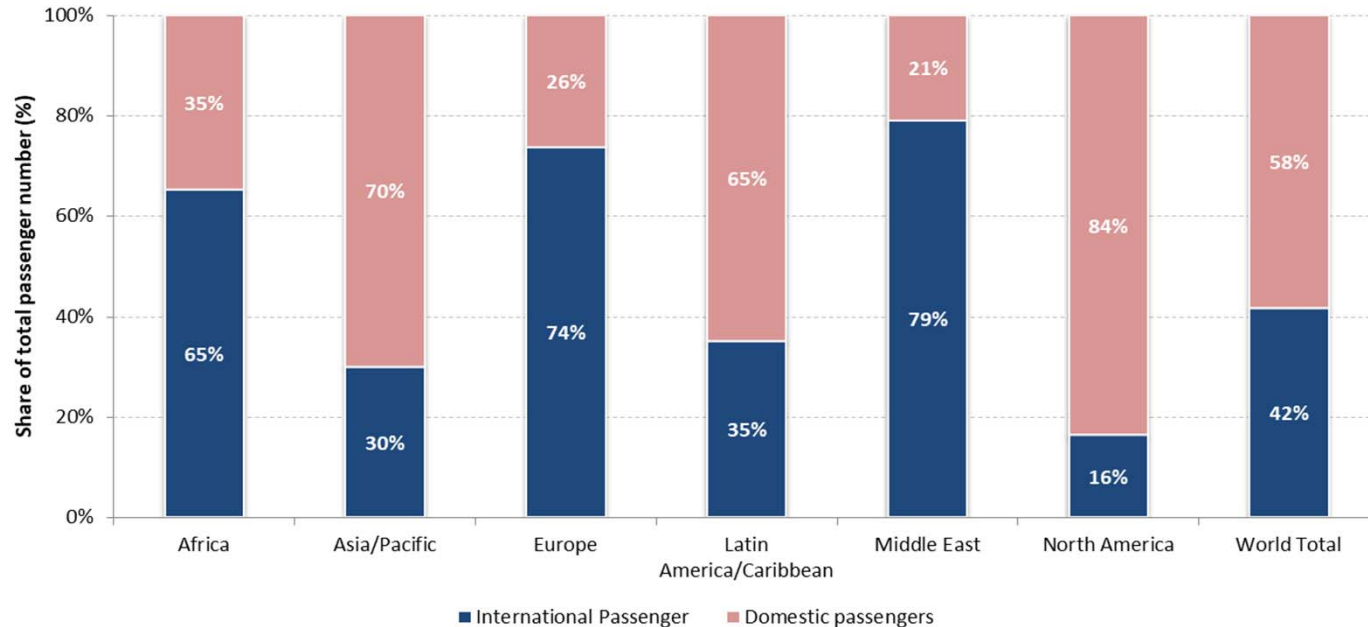
## Analytical Consideration

- Geographical disparity of international-domestic passenger traffic mix
- Difference in market size among regions
- Potential difference in resilience and speed of recovery
- Outbreak timing that impacts when traffic would bottom out
- Gap between what is scheduled and actual operations



# International-domestic passenger traffic mix exhibits significant geographical disparity

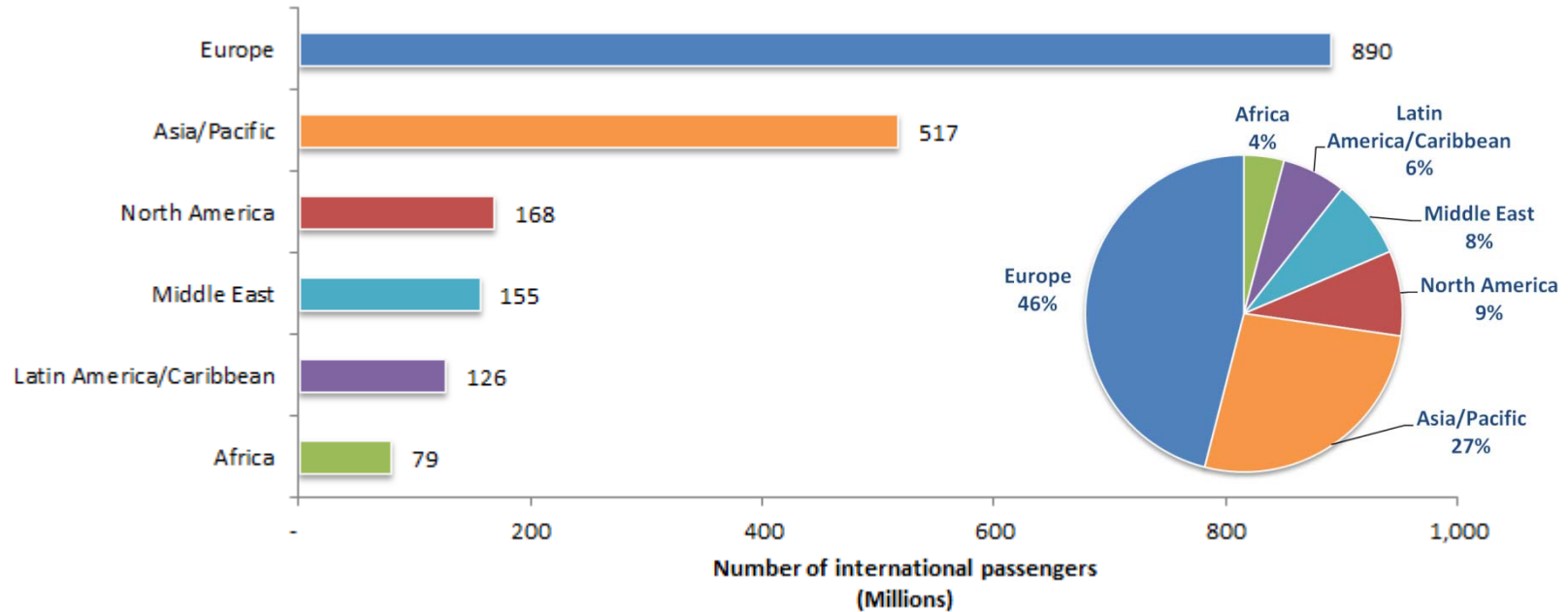
## Share of international-domestic passenger traffic by region (2019)





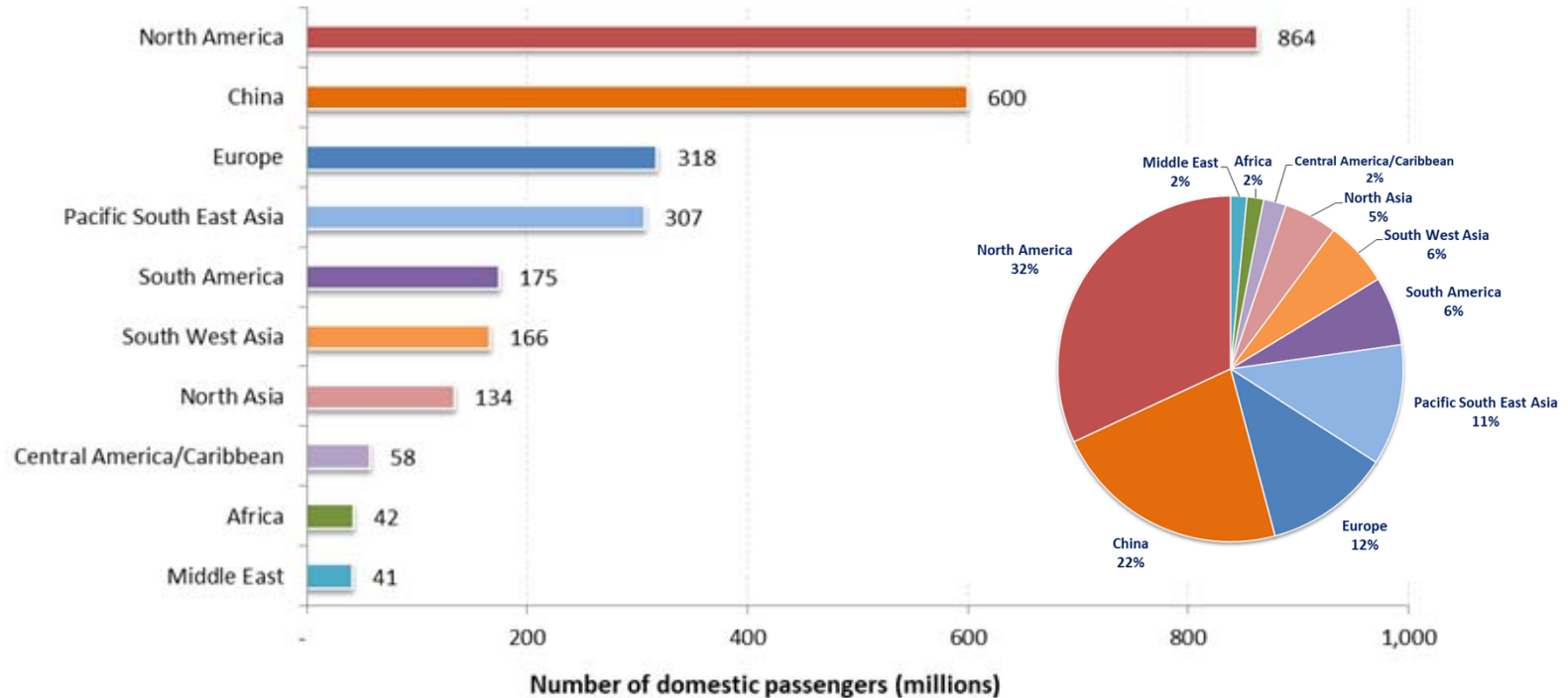
Europe and Asia/Pacific accounted for over 70% of the world international traffic pre-COVID-19

### Number of International Passengers by Region (2019, based on from/to State)



# North America and China account for over half of world domestic passenger traffic

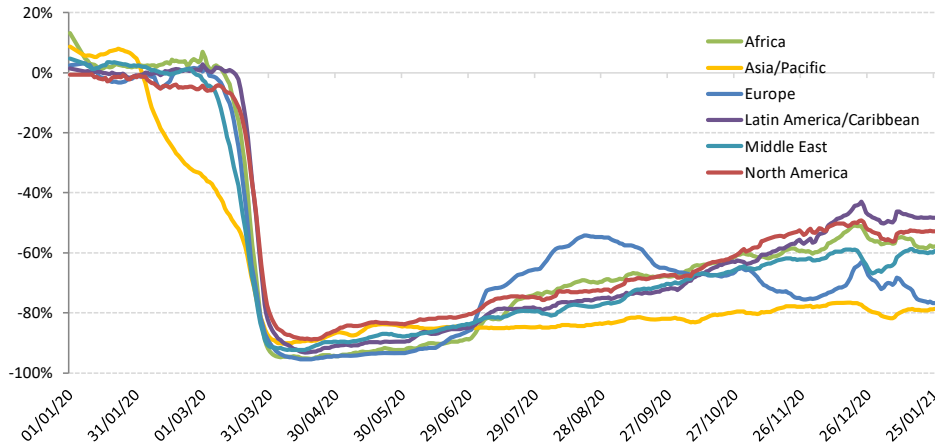
## Number of Domestic Passengers by Route Group (2019)



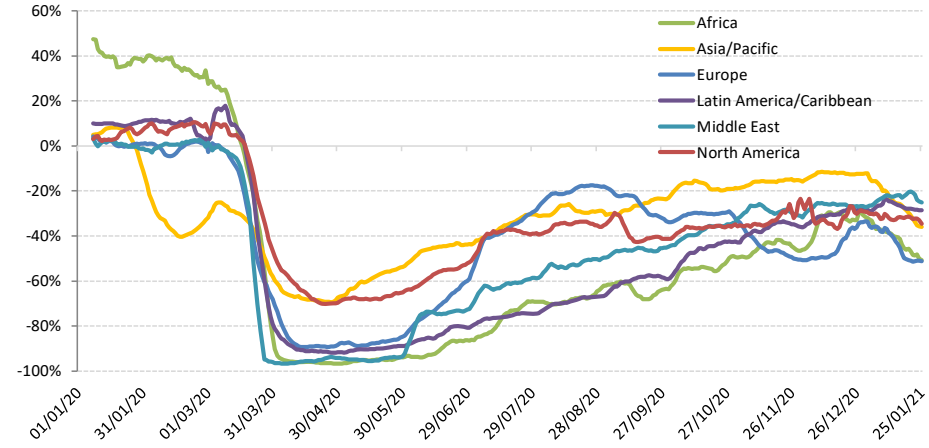
# Domestic passenger traffic often exhibits more resilience than international

Asia/Pacific and North America have experienced 20% to 25% less decline in domestic passenger traffic than international

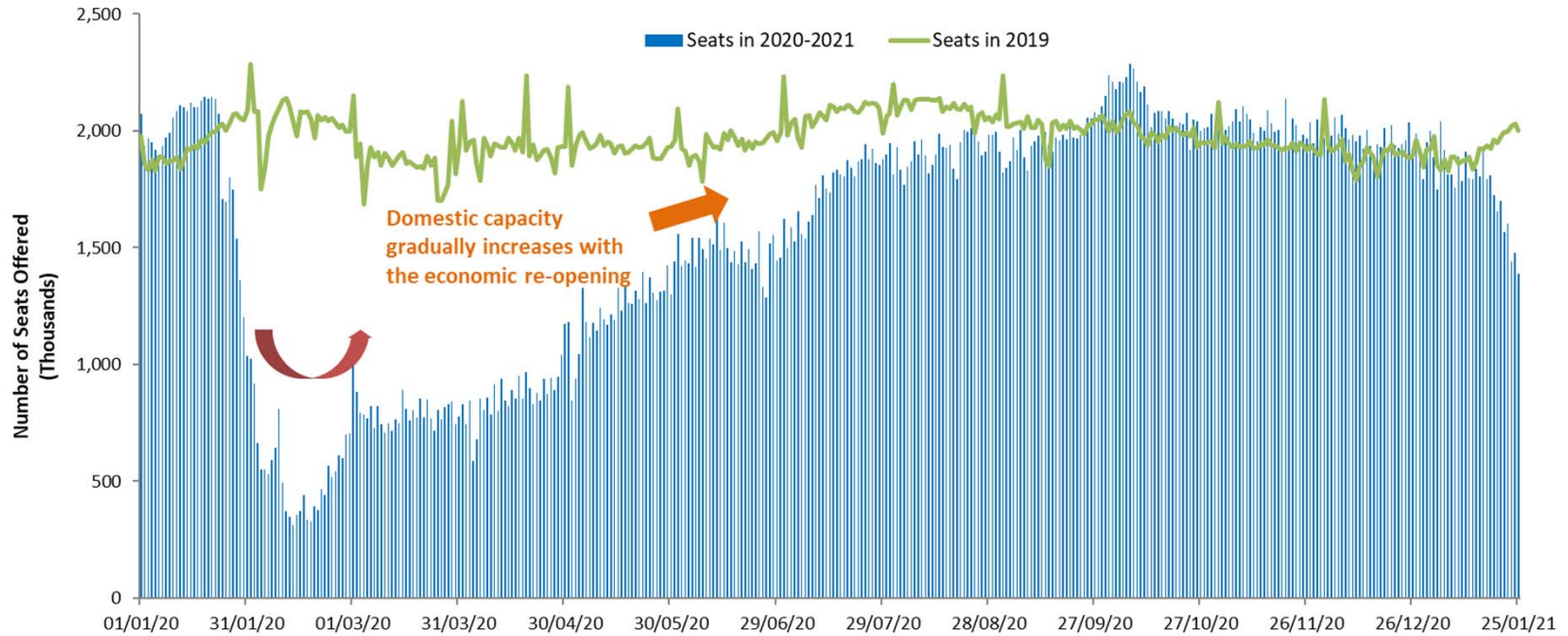
**International seat capacity reduction  
(7-day average, YoY compared to 2019)**



**Domestic seat capacity reduction  
(7-day average, YoY compared to 2019)**



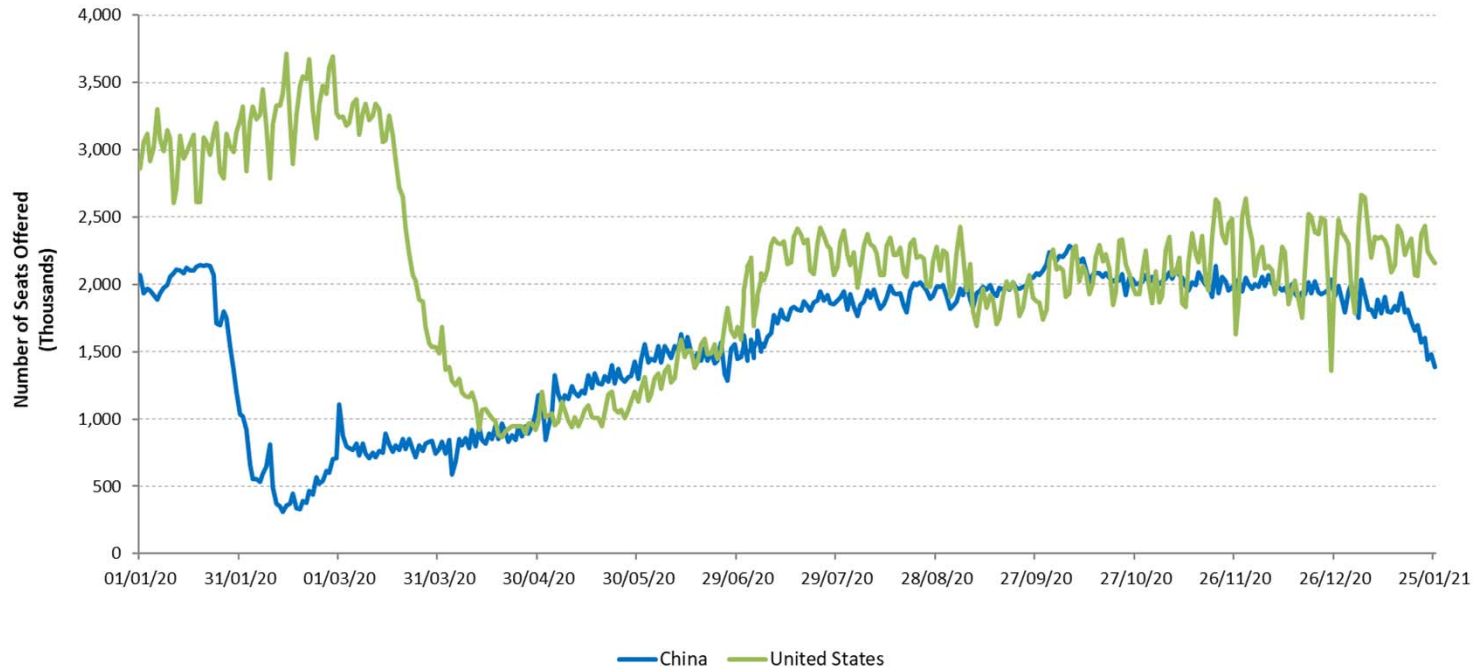
## Domestic passenger traffic in China started 2021 with a slower recovery





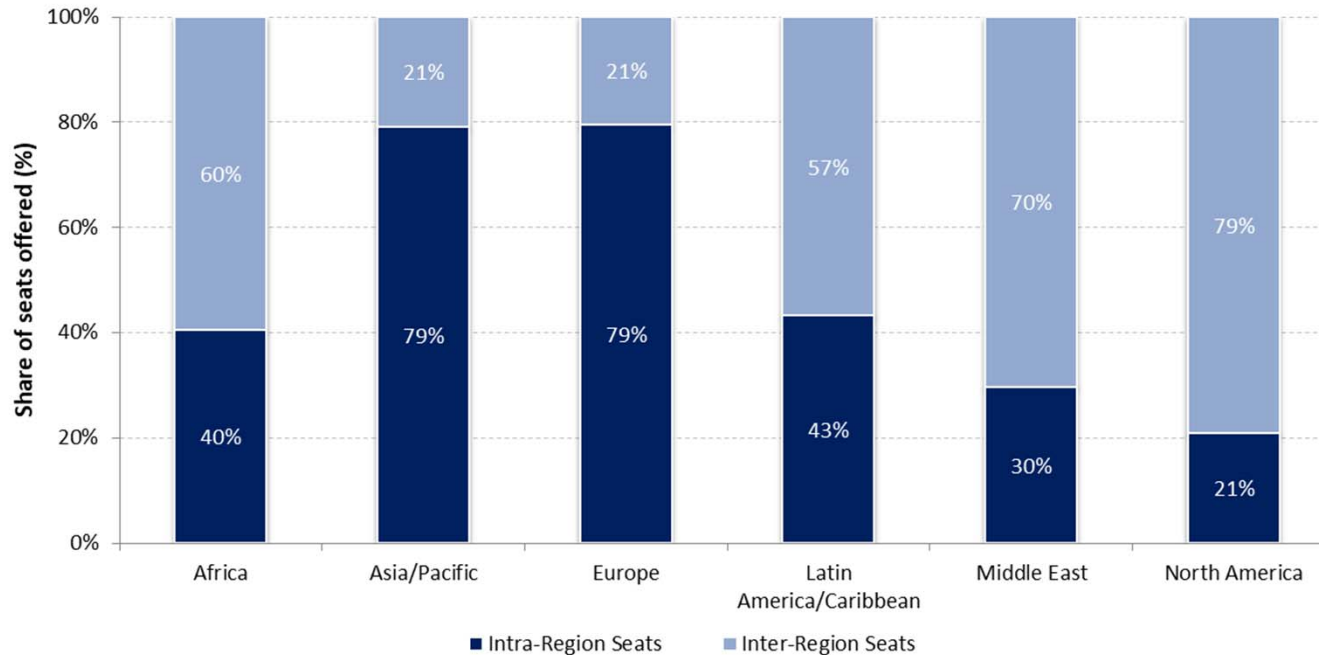
# The outbreak timing impacts when domestic traffic bottoms out in each region

## Capacity evolution of two largest domestic markets China and United States since January 2020



## Regions with higher share of intra-region traffic are expected to recover faster

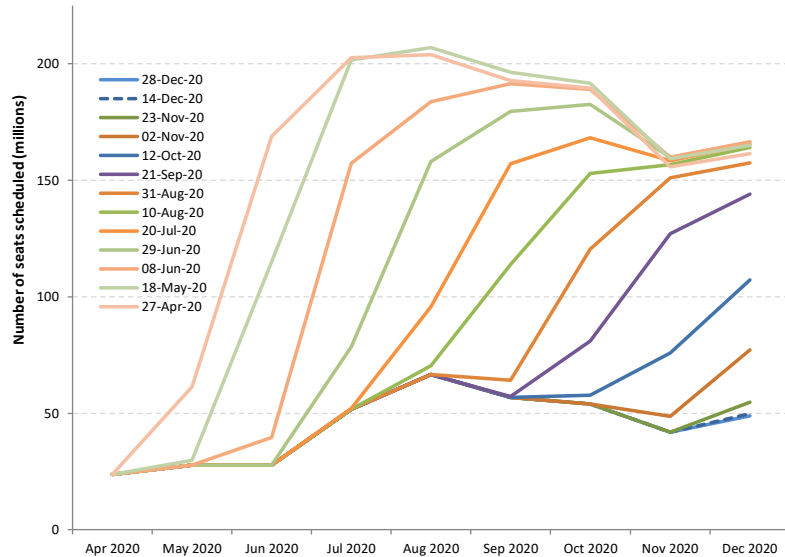
Almost 80% of international seats offered in Asia/Pacific and Europe were for intra-regional traffic (2019)



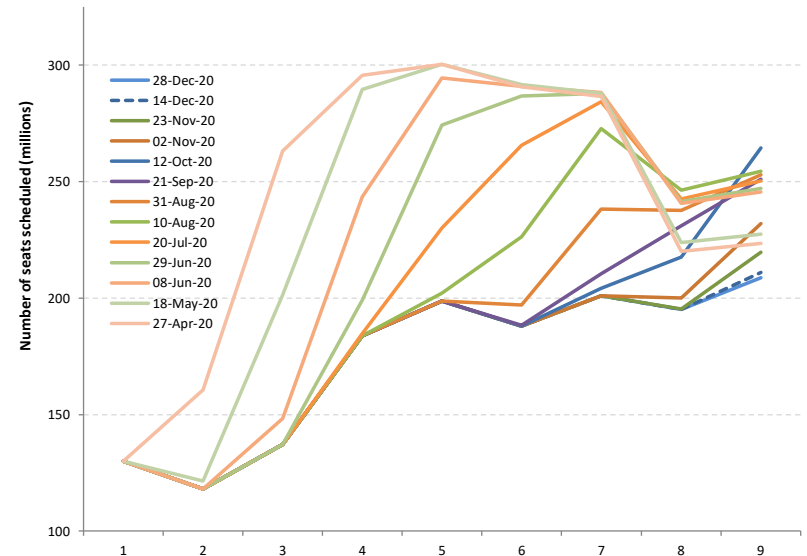
# A large gap exists between what is scheduled and actual operations

Airlines announced/planned resumption of flights, however, over half of which were subsequently withdrawn

### International schedules



### Domestic schedules





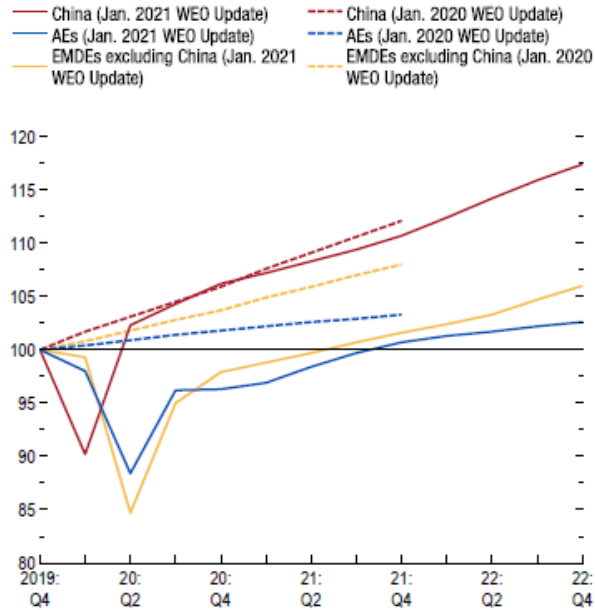
## Shapes of Economic Recession and Recovery

Informal classification to describe different types of recessions:

- **V-shaped**: normal shape for recession, a brief period of sharp economic decline followed by quick/smooth recovery
- **U-shaped**: prolonged contraction and muted recovery to trend line growth
- **L-shaped (depression)**: long-term downturn in economic activity, steep drop followed by a flat line with possibility of not returning to trend line growth
- **W-shaped**: a double-dip recession, “down up down up” pattern before full recovery
- **“Nike swoosh”-shaped\***: bounce back sharply but blunt quickly (\* Brookings Institution/WEF)

# What “recession shape” can be assumed given uncertainties surrounding the outlook?

## World’s GDP Projections (by IMF)



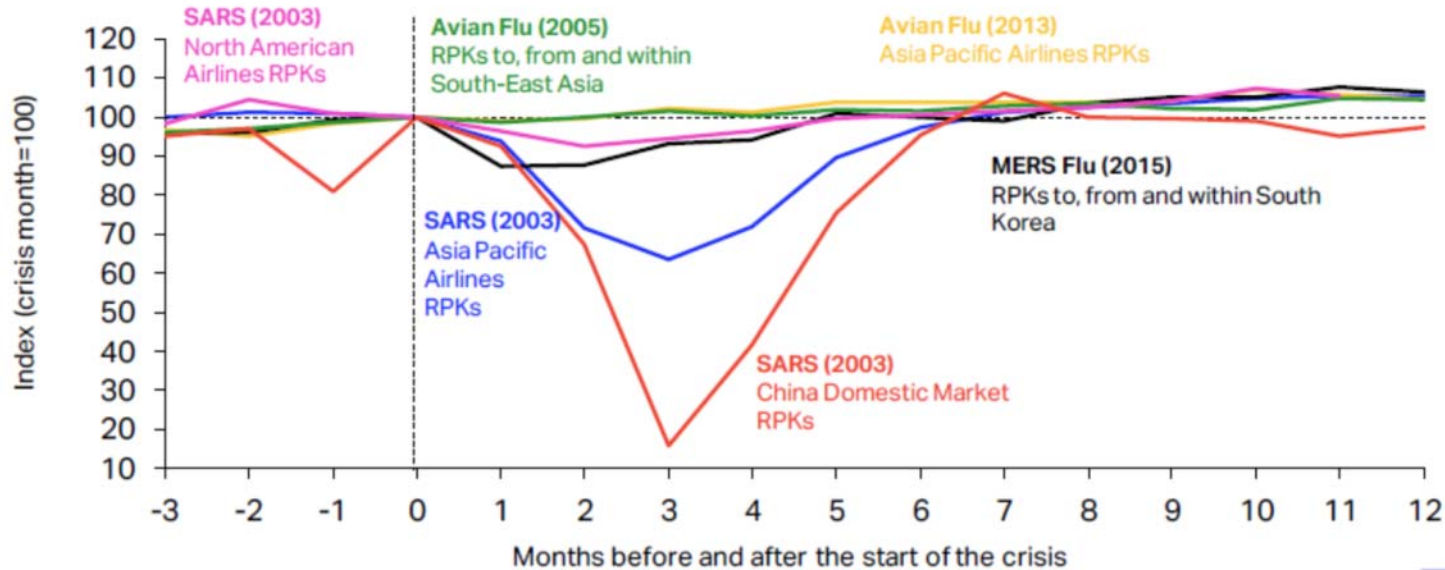
Source: IMF staff estimates.

Note: AEs = advanced economies; EMDEs = emerging market and developing economies; WEO = World Economic Outlook.

- How long will the pandemic last and what will be the severity levels?
- How deep and how long will the global recession be?
- How long will lockdowns and travel restrictions continue?
- How fast will consumer confidence in air travel be restored?
- Will there be a structural shift in industry and consumers’ behaviors?
- How long can the air transport industry withstand the financial adversity?

# Previous outbreaks/pandemics had a V-shaped impact on air transport in Asia/Pacific

Impact of past disease outbreaks on aviation



The impact of COVID-19 has already surpassed the 2003 SARS outbreak which had resulted in reduction of annual RPKs by 8% and USD 6 billion revenues for Asia/Pacific airlines. **The 6-month recovery path of SARS might not apply to today's situation.**

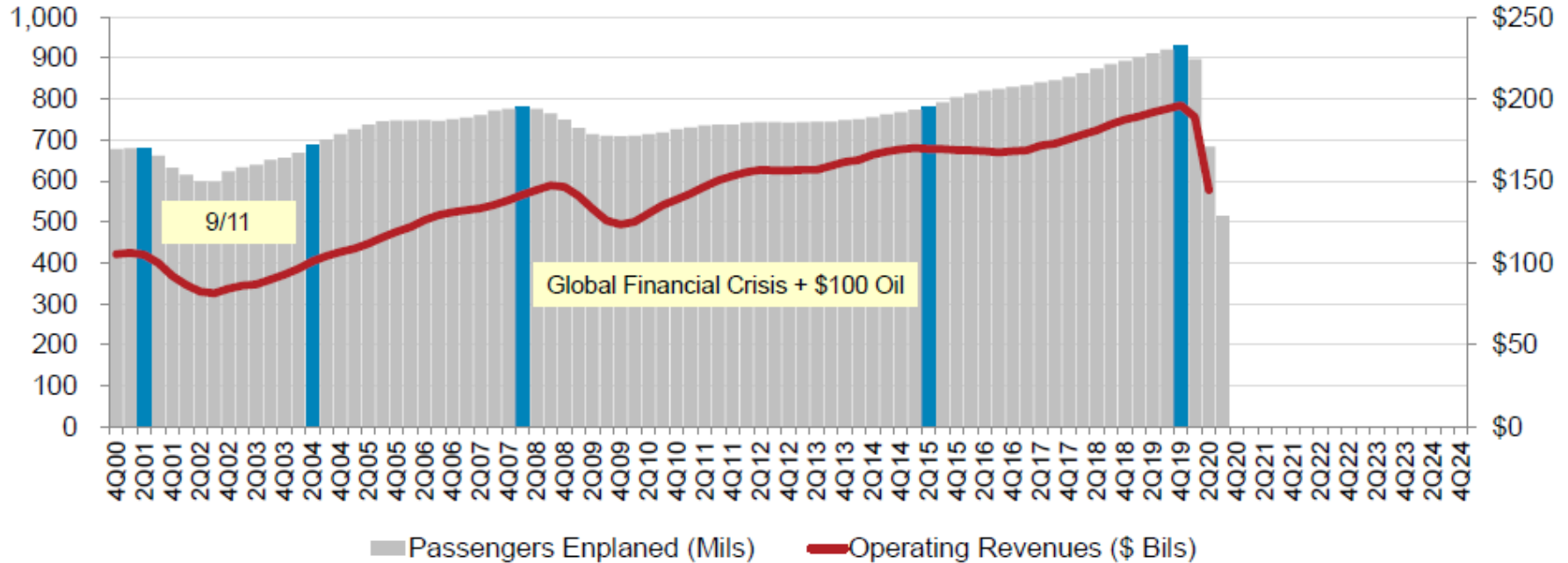
Source: IATA Economics using data from IATA Statistics

<https://www.iata.org/en/iata-repository/publications/economic-reports/third-impact-assessment/>



# 9/11 and global financial crisis had a U/L-shaped impact on air transport in United States

### Four-Quarter Rolling Passenger Volume (Millions) and Operating Revenues (Billions)



\* Passengers enplaned systemwide on U.S. airlines in scheduled and nonscheduled services  
Source: A4A Passenger Airline Cost Index and Bureau of Transportation Statistics (Form 41 Schedule T1)

<https://www.airlines.org/dataset/impact-of-covid19-data-updates/>



## Indicative Scenarios and Paths Forward

As overall severity and duration of the COVID-19 pandemic are still uncertain, four (4) different recovery paths under two (2) indicative scenarios are developed:

- **Baseline:** counterfactual scenario, in which the COVID-19 pandemic does not occur, that is, **originally-planned** or **business as usual**
- **Scenario 1:** two (2) different paths (similar to **Nike swoosh- and W-shaped**)
- **Scenario 2:** two (2) different paths (similar to **U- and L-shaped**)
- **Reference:** information only, based on latest airline schedules (similar to **V-shaped**)





- Notwithstanding the elevated uncertainty surrounding the outlook, a scenario analysis could help gauge potential economic implications of the pandemic
- Scenarios are **not forecasts** of what is most likely to happen. Given rapidly changing circumstances, they are merely indicative of **possible paths or consequential outcomes out of many**
- The exact path (depth, length and shape) will depend upon various factors, inter alia, duration and magnitude of the outbreak and containment measures, availability of government assistance, consumer confidence, and economic conditions
- With the situation evolving and more information available, scenarios will be adjusted as necessary



- International and domestic passenger traffic has separate scenarios/paths
- Scenarios/paths are differentiated in terms of supply and demand, i.e.
  - Scale of output or seat capacity change
  - Degree of consumer confidence that can be translated into demand or load factor as a proxy
- Supply and demand are influenced by:
  - Different timing and speed of recovery by region, international/domestic, and intra-/inter-region
  - Global economic contraction
- No consideration is made to social distancing requirements on aircraft, etc.
- Detailed scenario assumptions are summarized in **Appendix B**



- **Baseline: originally-planned or business as usual**
  - Counterfactual hypothesis that are expected to occur in the absence of COVID-19 pandemic
  - Supply: airlines' originally-planned schedules supplemented by trend line growth
  - Demand: trend line growth of demand from 2019 (pre-COVID-19) level
- **Reference: V-shaped**
  - Information-only scenario that reflects airlines' most recent expectation or a “signal” of airlines' plan to the market (not necessarily realistic)
  - Supply: based on latest update of airline schedules filed, which are adjusted weekly by airlines according to the expectation of the evolving situation (quite often managing capacity for a short period due to the uncertainties)
  - Demand: quickly returning to Baseline level



## Scenario 1: Nike swoosh- and W-shaped

- International
  - **Path 1:** Smooth capacity recovery by picking up pent-up demand but at a diminishing rate of growth
  - **Path 1a:** Capacity to start with smooth recovery but then turn back down due to over-capacity
- Domestic
  - **Path 1:** Swift capacity rebound pushed by pent-up demand but at a diminishing rate of growth
  - **Path 1a:** Capacity to start with smooth recovery but then turn back down due to over-capacity

## Scenario 2: U- and L-shaped

- International
  - **Path 2:** Accelerating the return to trend growth after slow progression of capacity recovery
  - **Path 2a:** Capacity recovery at diminishing speed due to respite and continuous demand slump
- Domestic
  - **Path 2:** Gradual capacity recovery, followed by the acceleration of growth
  - **Path 2a:** Capacity recovery at diminishing speed due to sluggish demand growth

In the following analysis, international and domestic scenarios having the same path number are linked with each other, although different combination of scenarios/paths would be possible



## Estimated 2020 Results and Near-term Outlook: Global

Figures and estimates herein reflect the latest operational data and schedules filed by airlines but are **subject to substantial changes**, and will be updated with the situation evolving and more information available.



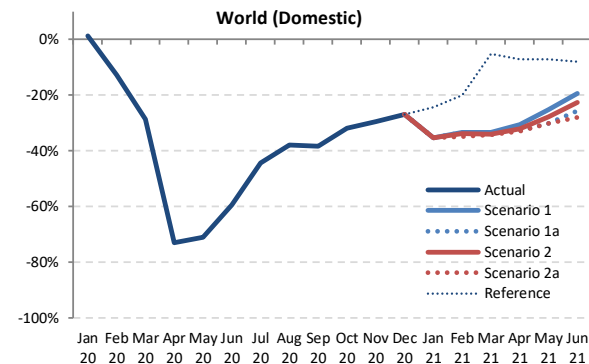
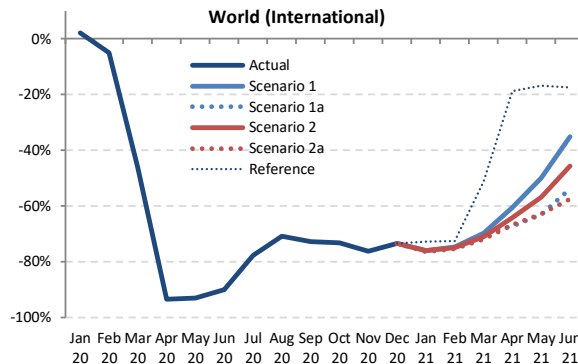
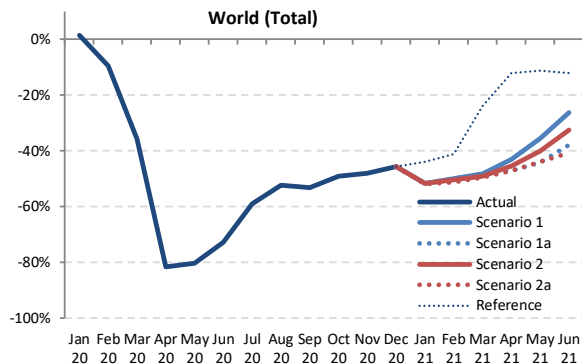
- Three (3) key impact indicators under four (4) paths of two (2) scenarios:
  - Change of passenger seat capacity (supply, %)
  - Change of passenger numbers (demand)
  - Change of gross passenger operating revenues of airlines
- Comparison to:
  - Baseline scenario
  - 2019 level
  - 2020 level (for 2021 estimates)
- Break-down by:
  - International and domestic
  - Month, quarter and year

Estimation based on actual results of January to December 2020 are used for the key impact indicators.



Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-14.8%	-16.9%	-13.4%	-233,912	-22.7%	-89,922	-22.0%	-143,990	-23.2%	-29,389	-16,538	-12,852
2Q 2020	-78.1%	-92.1%	-67.8%	-984,443	-86.4%	-460,226	-96.6%	-524,217	-79.1%	-129,746	-81,993	-47,753
3Q 2020	-54.8%	-73.9%	-40.2%	-821,251	-67.2%	-449,405	-85.2%	-371,846	-53.5%	-115,835	-82,002	-33,833
4Q 2020	-47.6%	-74.3%	-29.4%	-650,426	-59.4%	-376,265	-86.0%	-274,161	-41.7%	-94,797	-69,587	-25,210
<b>Total 2020</b>	<b>-49.5%</b>	<b>-65.7%</b>	<b>-37.9%</b>	<b>-2,690</b>	<b>-60.0%</b>	<b>-1,375,818</b>	<b>-74.4%</b>	<b>-1,314,213</b>	<b>-49.9%</b>	<b>-369,768</b>	<b>-250,120</b>	<b>-119,647</b>
1Q 2021	-50.8% to -50.0%	-74.5% to -73.5%	-34.8% to -34.1%	-633,802 to -607,174	-61.6% to -59.0%	-348,651 to -338,752	-85.4% to -82.9%	-285,151 to -268,423	-45.9% to -43.2%	-91,051 to -87,533	-64,836 to -62,919	-26,215 to -24,613
2Q 2021	-43.9% to -34.8%	-62.4% to -48.1%	-30.3% to -25.0%	-641,087 to -489,078	-56.3% to -42.9%	-365,187 to -284,408	-76.7% to -59.7%	-275,900 to -204,670	-41.6% to -30.9%	-89,847 to -68,423	-64,425 to -49,809	-25,422 to -18,615
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-47.3% to -42.1%</b>	<b>-68.1% to -60.0%</b>	<b>-32.5% to -29.4%</b>	<b>-1,274,889 to -1,096,252</b>	<b>-58.8% to -50.6%</b>	<b>-713,838 to -623,159</b>	<b>-80.7% to -70.4%</b>	<b>-561,051 to -473,092</b>	<b>-43.7% to -36.8%</b>	<b>-180,898 to -155,956</b>	<b>-129,261 to -112,728</b>	<b>-51,638 to -43,228</b>

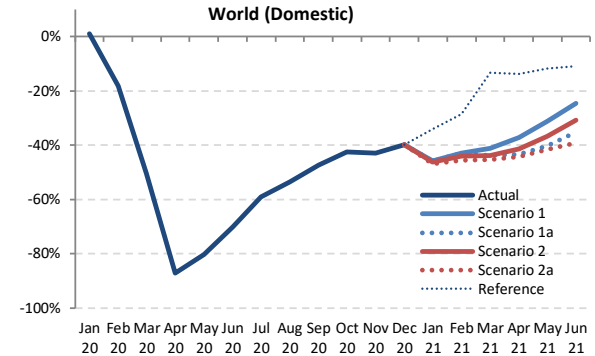
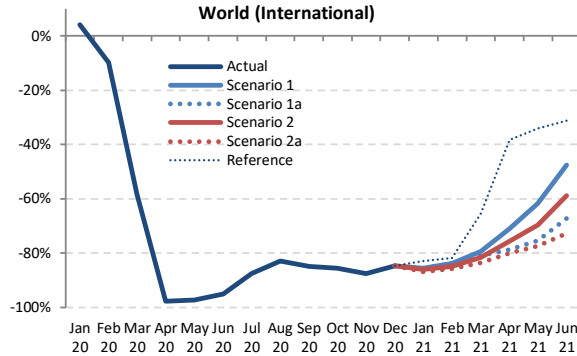
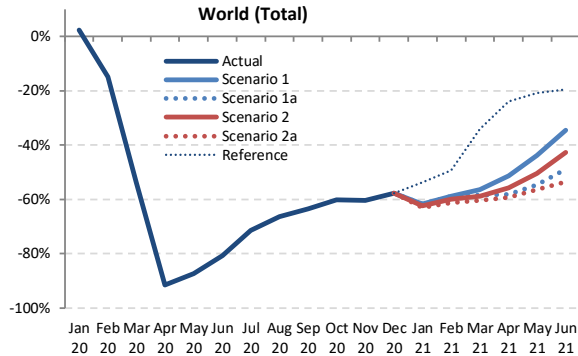
Compared to Baseline	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-18.0%	-20.0%	-16.7%	-279,917	-26.0%	-108,095	-25.3%	-171,821	-26.5%	-35,029	-19,759	-15,269
2Q 2020	-78.8%	-92.4%	-68.7%	-1,024,747	-86.9%	-478,427	-96.8%	-546,320	-79.8%	-135,049	-85,225	-49,824
3Q 2020	-56.2%	-74.6%	-42.1%	-865,024	-68.3%	-468,004	-85.7%	-397,020	-55.2%	-121,500	-85,312	-36,188
4Q 2020	-48.8%	-74.9%	-30.9%	-681,178	-60.5%	-389,032	-86.4%	-292,146	-43.2%	-98,973	-72,073	-26,900
<b>Total 2020</b>	<b>-51.1%</b>	<b>-66.8%</b>	<b>-39.7%</b>	<b>-2,850,865</b>	<b>-61.3%</b>	<b>-1,443,558</b>	<b>-75.3%</b>	<b>-1,407,307</b>	<b>-51.6%</b>	<b>-390,551</b>	<b>-262,370</b>	<b>-128,182</b>
1Q 2021	-53.7% to -52.9%	-76.0% to -75.0%	-38.6% to -38.0%	-705,221 to -678,593	-64.1% to -61.6%	-374,496 to -364,596	-86.2% to -83.9%	-330,726 to -313,997	-49.6% to -47.1%	-99,832 to -96,313	-69,470 to -67,554	-30,362 to -28,759
2Q 2021	-47.1% to -38.4%	-64.7% to -51.3%	-33.8% to -28.7%	-715,306 to -563,297	-59.0% to -46.4%	-397,933 to -317,153	-78.2% to -62.3%	-317,374 to -246,144	-45.1% to -34.9%	-99,778 to -78,354	-70,465 to -55,849	-29,313 to -22,505
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-50.3% to -45.4%</b>	<b>-70.0% to -62.4%</b>	<b>-36.2% to -33.3%</b>	<b>-1,420,528 to -1,241,890</b>	<b>-61.4% to -53.7%</b>	<b>-772,428 to -681,749</b>	<b>-81.9% to -72.3%</b>	<b>-648,100 to -560,141</b>	<b>-47.3% to -40.9%</b>	<b>-199,610 to -174,667</b>	<b>-139,935 to -123,402</b>	<b>-59,675 to -51,265</b>



Seat Capacity (thousand) - World Total International + Domestic																			
Year	2019			2020					2021										
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	438,945	452,937	445,904	6,960	1.6%	-7,033	-1.6%	464,620	211,974	211,974	211,974	211,266	246,548	-227,679 to -226,971	-51.9% to -51.7%	-234,639 to -233,930	-52.6% to -52.5%	-253,354 to -252,645	-54.5% to -54.4%
February	401,031	423,848	362,643	-38,388	-9.6%	-61,205	-14.4%	433,495	200,326	200,326	199,238	195,910	235,802	-205,121 to -200,704	-51.1% to -50.0%	-166,733 to -162,316	-46.0% to -44.8%	-237,585 to -233,169	-54.8% to -53.8%
March	444,244	458,040	285,487	-158,757	-35.7%	-172,553	-37.7%	465,168	230,303	230,303	226,092	224,232	338,532	-220,012 to -213,941	-49.5% to -48.2%	-61,255 to -55,184	-21.5% to -19.3%	-240,936 to -234,865	-51.8% to -50.5%
April	445,271	457,572	81,987	-363,283	-81.6%	-375,584	-82.1%	469,717	253,544	235,068	242,576	235,624	391,854	-210,202 to -191,727	-47.2% to -43.1%	153,081 to 171,556	186.7% to 209.2%	-234,649 to -216,174	-50.0% to -46.0%
May	464,948	478,703	91,502	-373,447	-80.3%	-387,202	-80.9%	491,057	299,309	260,002	278,514	260,375	413,101	-204,946 to -165,639	-44.1% to -35.6%	168,501 to 207,808	184.2% to 227.1%	-231,055 to -191,748	-47.1% to -39.0%
June	470,011	485,904	128,457	-341,554	-72.7%	-357,447	-73.6%	500,376	346,987	292,164	316,794	278,569	413,655	-191,442 to -123,024	-40.7% to -26.2%	150,112 to 218,530	116.9% to 170.1%	-221,806 to -153,389	-44.3% to -30.7%
July	498,340	515,107	204,703	-293,638	-58.9%	-310,404	-60.3%	-	-	-	-	-	-	-	-	-	-	-	-
August	497,416	510,834	237,039	-260,377	-52.3%	-273,795	-53.6%	-	-	-	-	-	-	-	-	-	-	-	-
September	466,668	481,357	218,612	-248,056	-53.2%	-262,745	-54.6%	-	-	-	-	-	-	-	-	-	-	-	-
October	469,535	478,702	239,029	-230,505	-49.1%	-239,673	-50.1%	-	-	-	-	-	-	-	-	-	-	-	-
November	431,197	439,257	223,993	-207,204	-48.1%	-215,264	-49.0%	-	-	-	-	-	-	-	-	-	-	-	-
December	448,324	462,155	243,440	-204,885	-45.7%	-218,715	-47.3%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	1,284,219	1,334,824	1,094,034	-190,185	-14.8%	-240,790	-18.0%	1,363,282	642,603	642,603	637,305	631,407	820,882	-652,811 to -641,616	-50.8% to -50.0%	-462,626 to -451,431	-42.3% to -41.3%	-731,875 to -720,679	-53.7% to -52.9%
2Q	1,380,230	1,422,179	301,946	-1,078,284	-78.1%	-1,120,233	-78.8%	1,461,150	899,840	787,234	837,884	774,568	1,218,611	-606,590 to -480,390	-43.9% to -34.8%	471,693 to 597,894	156.2% to 198.0%	-687,511 to -561,310	-47.1% to -38.4%
3Q	1,462,425	1,507,298	660,353	-802,072	-54.8%	-846,944	-56.2%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	1,349,056	1,380,114	706,462	-642,595	-47.6%	-673,652	-48.8%	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,475,930</b>	<b>5,644,415</b>	<b>2,762,796</b>	<b>-2,713,135</b>	<b>-49.5%</b>	<b>-2,881,619</b>	<b>-51.1%</b>	<b>2,824,433</b>	<b>1,542,443</b>	<b>1,429,838</b>	<b>1,475,189</b>	<b>1,405,975</b>	<b>2,039,493</b>	<b>-1,259,402 to -1,122,005</b>	<b>-47.3% to -42.1%</b>	<b>9,067 to 146,463</b>	<b>0.6% to 10.5%</b>	<b>-1,419,386 to -1,281,990</b>	<b>-50.3% to -45.4%</b>





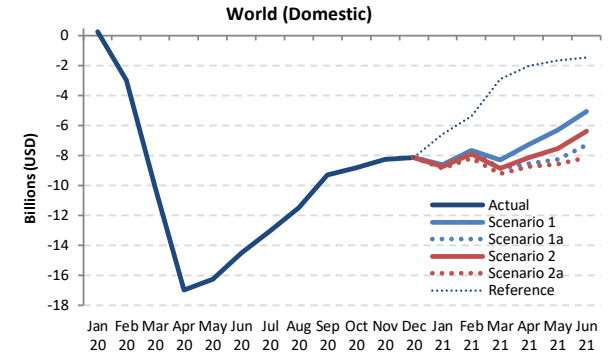
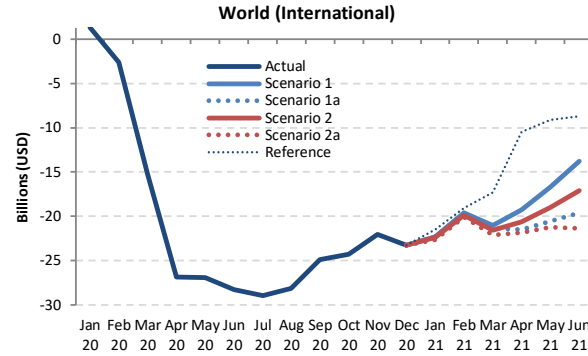
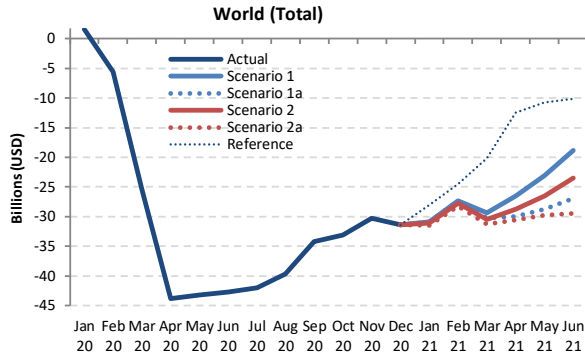


Passenger Number (thousand) - World Total International + Domestic

Year	2019						2020						2021							
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline		
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e						e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	344,758	357,605	352,760	8,002	2.3%	-4,845	-1.4%	367,727	131,678	131,678	130,018	127,620	159,660	-217,137 to -213,080	-63.0% to -61.8%	-225,140 to -221,082	-63.8% to -62.7%	-240,106 to -236,048	-65.3% to -64.2%	
February	321,873	341,948	274,171	-47,702	-14.8%	-67,777	-19.8%	350,577	132,171	132,171	128,725	124,431	162,897	-197,442 to -189,702	-61.3% to -58.9%	-149,740 to -142,000	-54.6% to -51.8%	-226,146 to -218,406	-64.5% to -62.3%	
March	362,867	375,949	168,655	-194,212	-53.5%	-207,295	-55.1%	382,613	158,474	150,722	149,737	143,644	239,604	-219,223 to -204,393	-60.4% to -56.3%	-25,010 to -10,180	-14.8% to -6.0%	-238,969 to -224,139	-62.5% to -58.6%	
April	366,705	378,696	30,812	-335,892	-91.6%	-347,884	-91.9%	389,357	178,696	153,348	162,474	149,569	278,900	-217,136 to -188,009	-59.2% to -51.3%	118,757 to 147,884	385.4% to 479.9%	-239,788 to -210,661	-61.6% to -54.1%	
May	378,595	391,490	48,036	-330,559	-87.3%	-343,454	-87.7%	402,087	213,100	171,505	188,019	165,077	299,404	-213,518 to -165,495	-56.4% to -43.7%	117,041 to 165,064	243.7% to 343.6%	-237,010 to -188,987	-58.9% to -47.0%	
June	393,796	409,214	75,805	-317,991	-80.8%	-333,409	-81.5%	421,871	258,222	201,477	225,482	183,363	316,896	-210,433 to -135,574	-53.4% to -34.4%	107,558 to 182,417	141.9% to 240.6%	-238,508 to -163,649	-56.5% to -38.8%	
July	422,791	439,319	121,081	-301,710	-71.4%	-318,239	-72.4%	-	-	-	-	-	-	-	-	-	-	-	-	
August	421,189	434,582	141,566	-279,622	-66.4%	-293,015	-67.4%	-	-	-	-	-	-	-	-	-	-	-	-	
September	378,248	392,100	138,330	-239,918	-63.4%	-253,770	-64.7%	-	-	-	-	-	-	-	-	-	-	-	-	
October	382,832	392,205	152,734	-230,098	-60.1%	-239,471	-61.1%	-	-	-	-	-	-	-	-	-	-	-	-	
November	347,003	355,208	137,808	-209,195	-60.3%	-217,400	-61.2%	-	-	-	-	-	-	-	-	-	-	-	-	
December	365,500	378,673	154,367	-211,133	-57.8%	-224,307	-59.2%	-	-	-	-	-	-	-	-	-	-	-	-	
1Q	1,029,498	1,075,502	795,586	-233,912	-22.7%	-279,917	-26.0%	1,100,917	422,324	414,572	408,480	395,695	562,161	-633,802 to -607,174	-61.6% to -59.0%	-399,890 to -373,262	-50.3% to -46.9%	-705,221 to -678,593	-64.1% to -61.6%	
2Q	1,139,096	1,179,400	154,654	-984,443	-86.4%	-1,024,747	-86.9%	1,213,316	650,019	526,330	575,975	498,009	895,199	-641,087 to -489,078	-56.3% to -42.9%	343,356 to 495,365	222.0% to 320.3%	-715,306 to -563,297	-59.0% to -46.4%	
3Q	1,222,228	1,266,001	400,978	-821,251	-67.2%	-865,024	-68.3%	-	-	-	-	-	-	-	-	-	-	-	-	
4Q	1,095,335	1,126,087	444,909	-650,426	-59.4%	-681,178	-60.5%	-	-	-	-	-	-	-	-	-	-	-	-	
Total	4,486,157	4,646,991	1,796,126	-2,690,031	-60.0%	-2,850,865	-61.3%	2,314,232	1,072,342	940,902	984,455	893,705	1,457,360	-1,274,889 to -1,096,252	-58.8% to -50.6%	-56,535 to 122,103	-5.9% to 12.8%	-1,420,528 to -1,241,890	-61.4% to -53.7%	



## Passenger revenue



Passenger revenue (USD, million) - World Total International + Domestic

Year	2019							2020							2021						
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline			
	a	b	c	c-a	c/a-1	c-b	c/b-1	e						e-a	e/a-1	e-c	e/a-1	e-d	e/d-1		
January	44,644	46,282	46,210	1,566	3.5%	-72	-0.2%	47,585	13,743	13,743	13,521	13,181	16,561	-31,463 to -30,901	-70.5% to -69.2%	-33,029 to -32,467	-71.5% to -70.3%	-34,404 to -33,842	-72.3% to -71.1%		
February	41,141	43,681	35,562	-5,579	-13.6%	-8,119	-18.6%	44,699	13,833	13,833	13,375	12,867	16,686	-28,275 to -27,309	-68.7% to -66.4%	-22,695 to -21,729	-63.8% to -61.1%	-31,832 to -30,866	-71.2% to -69.1%		
March	46,611	48,073	21,235	-25,376	-54.4%	-26,838	-55.8%	48,894	17,288	16,350	16,155	15,298	26,419	-31,313 to -29,323	-67.2% to -62.9%	-5,937 to -3,947	-28.0% to -18.6%	-33,596 to -31,606	-68.7% to -64.6%		
April	47,003	48,564	3,172	-43,830	-93.3%	-45,391	-93.5%	50,020	20,478	17,001	18,268	16,415	34,524	-30,587 to -26,525	-65.1% to -56.4%	13,243 to 17,306	417.5% to 545.6%	-33,605 to -29,542	-67.2% to -59.1%		
May	48,047	49,834	4,877	-43,170	-89.8%	-44,956	-90.2%	51,311	25,012	19,250	21,531	18,271	37,298	-29,777 to -23,035	-62.0% to -47.9%	13,393 to 20,135	274.6% to 412.8%	-33,041 to -26,299	-64.4% to -51.3%		
June	50,345	52,301	7,599	-42,746	-84.9%	-44,701	-85.5%	53,994	31,482	23,433	26,843	20,862	40,177	-29,484 to -18,863	-58.6% to -37.5%	13,262 to 23,883	174.5% to 314.3%	-33,133 to -22,512	-61.4% to -41.7%		
July	54,203	56,322	12,220	-41,983	-77.5%	-44,102	-78.3%	-	-	-	-	-	-	-	-	-	-	-	-		
August	54,161	55,982	14,486	-39,674	-73.3%	-41,495	-74.1%	-	-	-	-	-	-	-	-	-	-	-	-		
September	48,119	49,844	13,941	-34,178	-71.0%	-35,903	-72.0%	-	-	-	-	-	-	-	-	-	-	-	-		
October	48,461	49,728	15,355	-33,106	-68.3%	-34,373	-69.1%	-	-	-	-	-	-	-	-	-	-	-	-		
November	44,163	45,283	13,861	-30,302	-68.6%	-31,421	-69.4%	-	-	-	-	-	-	-	-	-	-	-	-		
December	47,383	49,173	15,994	-31,389	-66.2%	-33,179	-67.5%	-	-	-	-	-	-	-	-	-	-	-	-		
1Q	132,397	138,036	103,007	-29,389	-22.2%	-35,029	-25.4%	141,177	44,864	43,926	43,051	41,346	59,666	-91,051 to -87,533	-68.8% to -66.1%	-61,662 to -58,143	-59.9% to -56.4%	-99,832 to -96,313	-70.7% to -68.2%		
2Q	145,395	150,698	15,649	-129,746	-89.2%	-135,049	-89.6%	155,326	76,972	59,684	66,643	55,548	111,999	-89,847 to -68,423	-61.8% to -47.1%	39,899 to 61,323	255.0% to 391.9%	-99,778 to -78,354	-64.2% to -50.4%		
3Q	156,483	162,148	40,647	-115,835	-74.0%	-121,500	-74.9%	-	-	-	-	-	-	-	-	-	-	-	-		
4Q	140,008	144,184	45,211	-94,797	-67.7%	-98,973	-68.6%	-	-	-	-	-	-	-	-	-	-	-	-		
Total	574,282	595,065	204,514	-369,768	-64.4%	-390,551	-65.6%	296,503	121,836	103,610	109,695	96,893	171,665	-180,898 to -155,956	-65.1% to -56.1%	-21,763 to 3,180	-18.3% to 2.7%	-199,610 to -174,667	-67.3% to -58.9%		



**Passenger revenue (USD, million) - World Total International**

Year	2020					2021											
Month	2019		2020			2021					Compared to 2019		Compared to 2020			Compared to Baseline	
	Actual a	Baseline b	Estimated c	Compared to 2019 c-a	Compared to Baseline c/a-1	Baseline d	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	26,170	27,114	27,464	1,294	4.9%	27,730	3,888	3,888	3,765	3,550	4,650	-22,620 to -22,282	-86.4% to -85.1%	-23,914 to -23,576	-87.1% to -85.8%	-24,180 to -23,842	-87.2% to -86.0%
February	23,567	25,037	20,977	-2,590	-11.0%	25,499	3,936	3,936	3,683	3,463	4,484	-20,104 to -19,631	-85.3% to -83.3%	-17,514 to -17,041	-83.5% to -81.2%	-22,036 to -21,564	-86.4% to -84.6%
March	26,649	27,457	11,407	-15,242	-57.2%	27,791	5,643	5,255	5,069	4,537	9,364	-22,112 to -21,006	-83.0% to -78.8%	-6,870 to -5,764	-60.2% to -50.5%	-23,254 to -22,148	-83.7% to -79.7%
April	27,581	28,574	722	-26,859	-97.4%	29,462	8,305	6,102	6,966	5,714	17,121	-21,867 to -19,275	-79.3% to -69.9%	4,992 to 7,584	691.8% to 1050.9%	-23,747 to -21,156	-80.6% to -71.8%
May	27,736	28,837	842	-26,894	-97.0%	29,655	11,014	7,187	8,740	6,519	18,637	-21,216 to -16,722	-76.5% to -60.3%	5,678 to 10,172	674.6% to 1208.6%	-23,136 to -18,642	-78.0% to -62.9%
June	29,710	30,847	1,470	-28,240	-95.1%	31,949	15,899	10,099	12,593	8,368	20,994	-21,342 to -13,811	-71.8% to -46.5%	6,898 to 14,429	469.4% to 981.9%	-23,581 to -16,051	-73.8% to -50.2%
July	32,311	33,472	3,343	-28,968	-89.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	32,648	33,853	4,483	-28,164	-86.3%	-	-	-	-	-	-	-	-	-	-	-	-
September	28,633	29,576	3,763	-24,869	-86.9%	-	-	-	-	-	-	-	-	-	-	-	-
October	28,049	28,741	3,752	-24,297	-86.6%	-	-	-	-	-	-	-	-	-	-	-	-
November	25,200	25,884	3,166	-22,033	-87.4%	-	-	-	-	-	-	-	-	-	-	-	-
December	27,515	28,626	4,258	-23,257	-84.5%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	76,386	79,608	59,849	-16,538	-21.7%	81,021	13,467	13,079	12,517	11,551	18,498	-64,836 to -62,919	-84.9% to -82.4%	-48,298 to -46,382	-80.7% to -77.5%	-69,470 to -67,554	-85.7% to -83.4%
2Q	85,026	88,258	3,033	-81,993	-96.4%	91,066	35,218	23,388	28,298	20,601	56,751	-64,425 to -49,809	-75.8% to -58.6%	17,568 to 32,185	579.3% to 1061.2%	-70,465 to -55,849	-77.4% to -61.3%
3Q	93,592	96,901	11,589	-82,002	-87.6%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	80,764	83,251	11,177	-69,587	-86.2%	-	-	-	-	-	-	-	-	-	-	-	-
Total	335,768	348,017	85,648	-250,120	-74.5%	172,087	48,684	36,467	40,816	32,152	75,249	-129,261 to -112,728	-80.1% to -69.8%	-30,729 to -14,197	-48.9% to -22.6%	-139,935 to -123,402	-81.3% to -71.7%

**Passenger revenue (USD, million) - World Total Domestic**

Year	2020					2021											
Month	2019		2020			2021					Compared to 2019		Compared to 2020			Compared to Baseline	
	Actual a	Baseline b	Estimated c	Compared to 2019 c-a	Compared to Baseline c/a-1	Baseline d	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	18,474	19,168	18,746	272	1.5%	19,855	9,855	9,855	9,756	9,630	11,910	-8,844 to -8,619	-47.9% to -46.7%	-9,116 to -8,891	-48.6% to -47.4%	-10,225 to -10,000	-51.5% to -50.4%
February	17,574	18,644	14,585	-2,989	-17.0%	19,199	9,897	9,897	9,692	9,404	12,203	-8,171 to -7,677	-46.5% to -43.7%	-5,181 to -4,688	-35.5% to -32.1%	-9,796 to -9,302	-51.0% to -48.5%
March	19,962	20,616	9,828	-10,134	-50.8%	21,103	11,645	11,095	11,086	10,761	17,054	-9,201 to -8,317	-46.1% to -41.7%	933 to 1,817	9.5% to 18.5%	-10,342 to -9,458	-49.0% to -44.8%
April	19,422	19,990	2,450	-16,971	-87.4%	20,559	12,172	10,899	11,303	10,701	17,403	-8,721 to -7,250	-44.9% to -37.3%	8,251 to 9,722	336.7% to 396.7%	-9,857 to -8,386	-47.9% to -40.8%
May	20,312	20,997	4,036	-16,276	-80.1%	21,656	13,999	12,063	12,792	11,751	18,661	-8,560 to -6,313	-42.1% to -31.1%	7,716 to 9,963	191.2% to 246.9%	-9,905 to -7,657	-45.7% to -35.4%
June	20,635	21,454	6,130	-14,505	-70.3%	22,045	15,583	13,334	14,250	12,494	19,184	-8,142 to -5,052	-39.5% to -24.5%	6,364 to 9,453	103.8% to 154.2%	-9,551 to -6,462	-43.3% to -29.3%
July	21,892	22,850	8,877	-13,015	-59.5%	-	-	-	-	-	-	-	-	-	-	-	-
August	21,513	22,129	10,003	-11,510	-53.5%	-	-	-	-	-	-	-	-	-	-	-	-
September	19,486	20,267	10,178	-9,308	-47.8%	-	-	-	-	-	-	-	-	-	-	-	-
October	20,412	20,987	11,603	-8,809	-43.2%	-	-	-	-	-	-	-	-	-	-	-	-
November	18,963	19,399	10,695	-8,268	-43.6%	-	-	-	-	-	-	-	-	-	-	-	-
December	19,868	20,547	11,736	-8,126	-40.9%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	56,010	58,428	43,159	-12,852	-22.9%	60,157	31,397	30,847	30,534	29,795	41,168	-26,215 to -24,613	-46.8% to -43.9%	-13,364 to -11,761	-31.0% to -27.3%	-30,362 to -28,759	-50.5% to -47.8%
2Q	60,369	62,441	12,616	-47,753	-79.1%	64,260	41,754	36,296	38,345	34,947	55,248	-25,422 to -18,615	-42.1% to -30.8%	22,330 to 29,138	177.0% to 231.0%	-29,313 to -22,505	-45.6% to -35.0%
3Q	62,891	65,246	29,058	-33,833	-53.8%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	59,243	60,933	34,033	-25,210	-42.6%	-	-	-	-	-	-	-	-	-	-	-	-
Total	238,514	247,048	118,866	-119,647	-50.2%	124,416	73,151	67,144	68,879	64,741	96,416	-51,638 to -43,228	-44.4% to -37.1%	8,967 to 17,377	16.1% to 31.2%	-59,675 to -51,265	-48.0% to -41.2%



## Estimated 2020 Results and Near-term Outlook: Region Breakdown

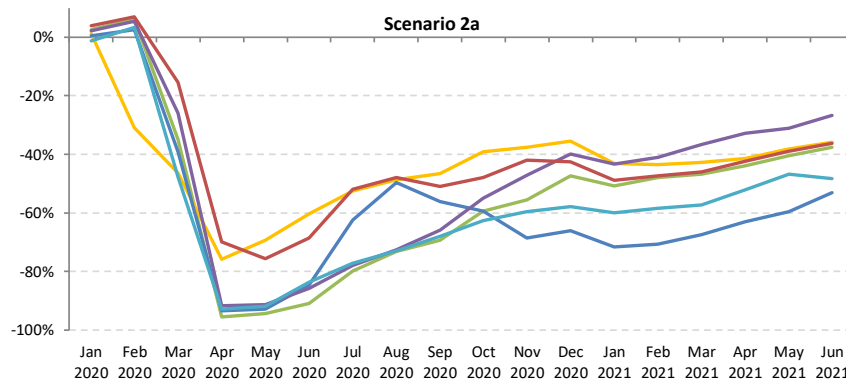
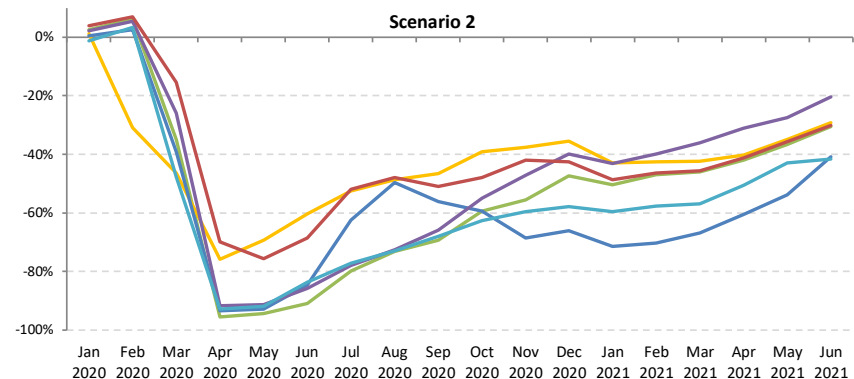
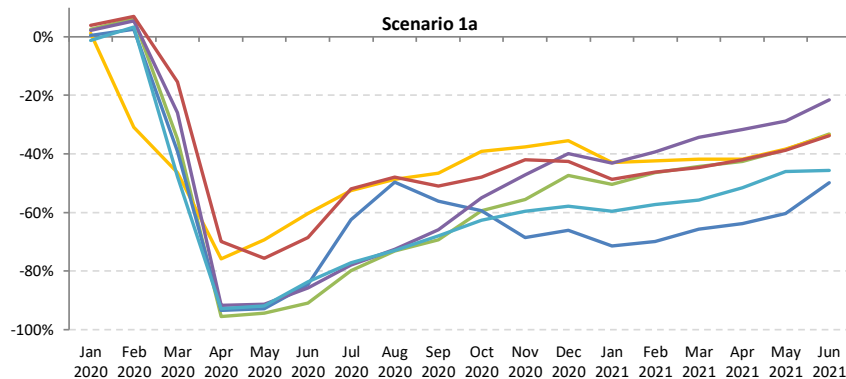
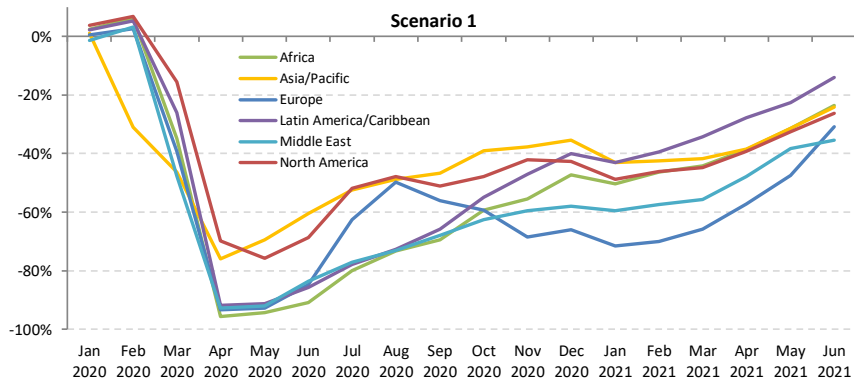
Figures and estimates herein reflect the latest operational data and schedules filed by airlines but are **subject to substantial changes**, and will be updated with the situation evolving and more information available.



- Regional breakdown follows ICAO's six (6) statistical regions (Doc 9060)
- The same key impact indicators are presented under four (4) paths of two (2) scenarios, in comparison to Baseline scenario, 2019 level and 2020 level, and by international and domestic, as well as month, quarter and year
- To avoid double counting:
  - Number of “international” passengers departing from each country and territory are aggregated in each region
  - Gross passenger operating revenues of all airlines serving “international” routes from each country and territory are aggregated at regional level
- **Appendix C** presents actual results from January to November 2020 by route group (40 international and 10 domestic route groups)



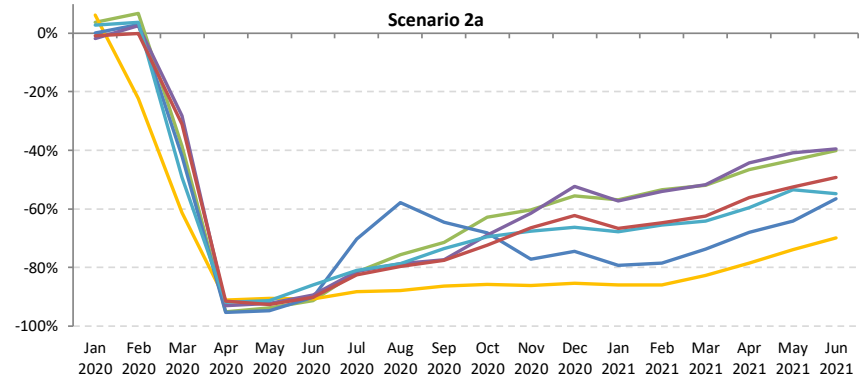
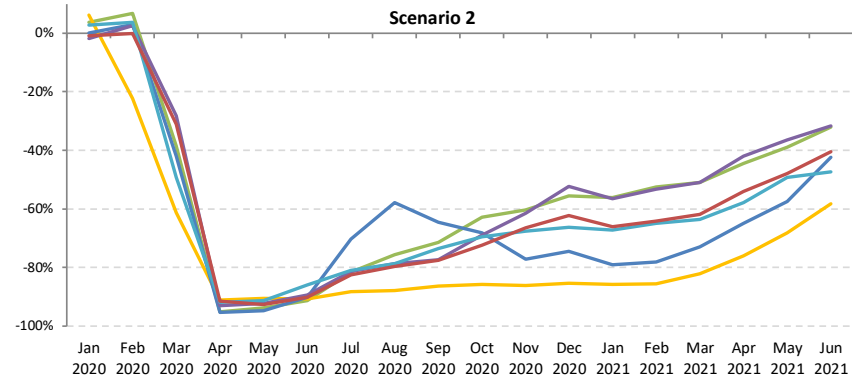
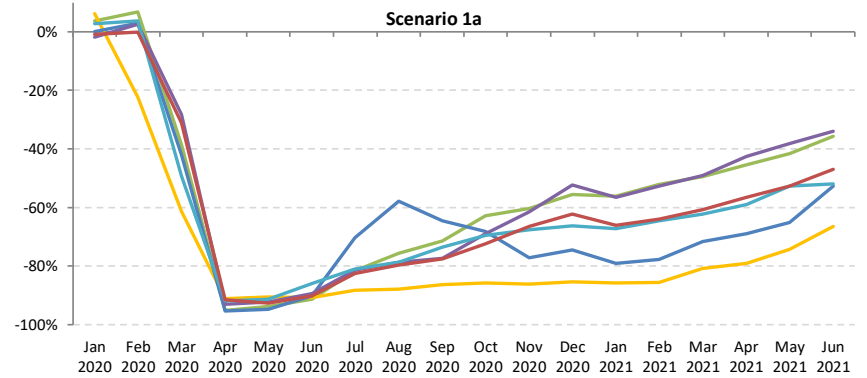
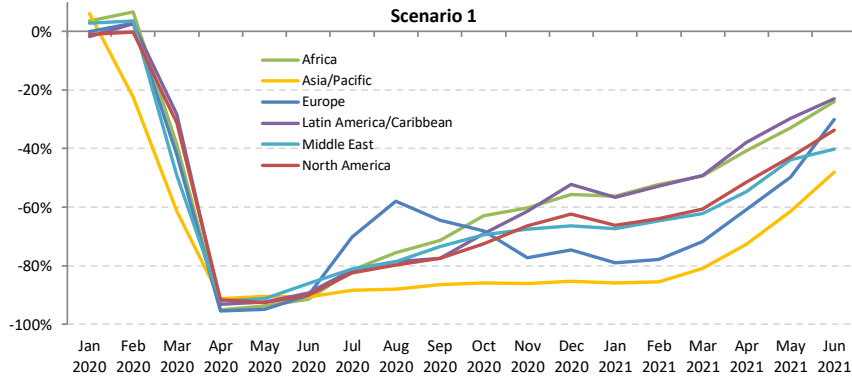
# Seat capacity change compared to 2019: International + Domestic





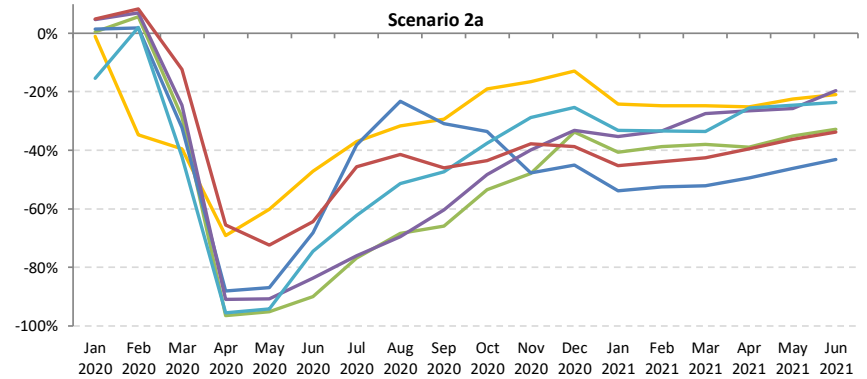
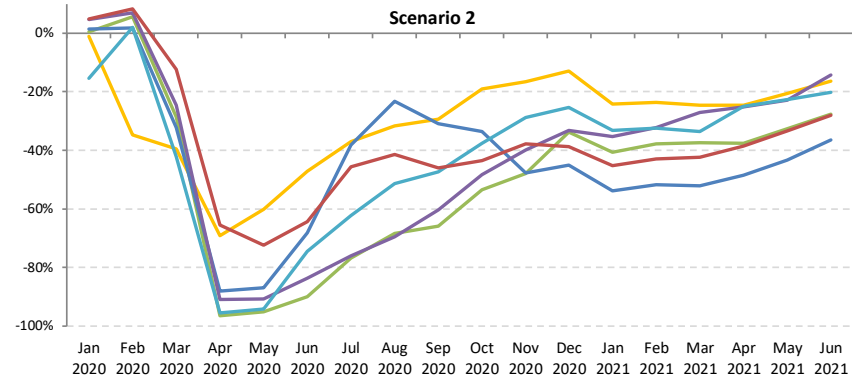
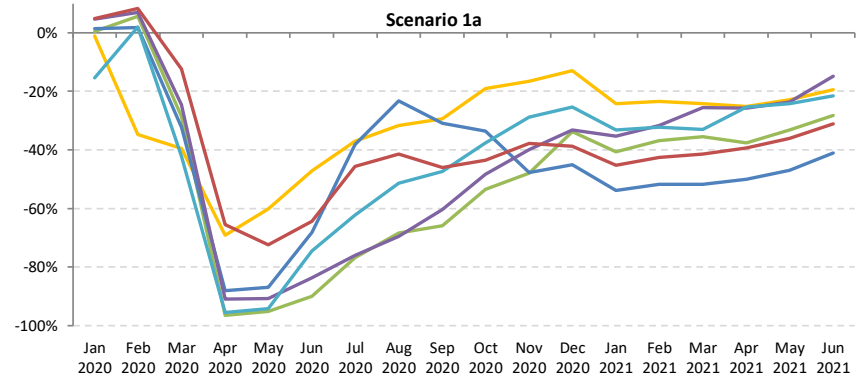
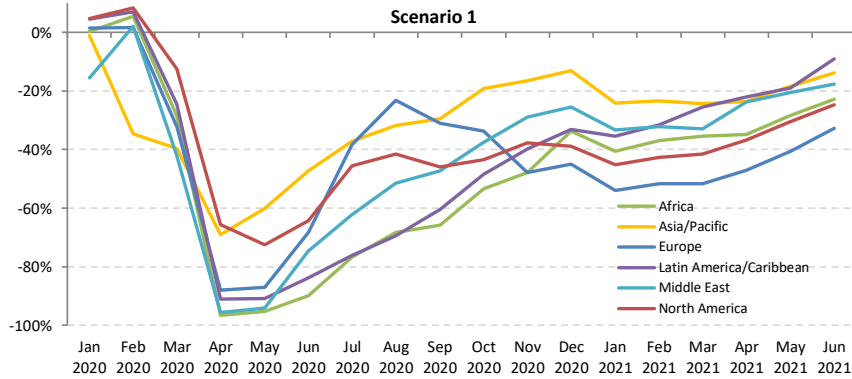


# Seat capacity change compared to 2019: International



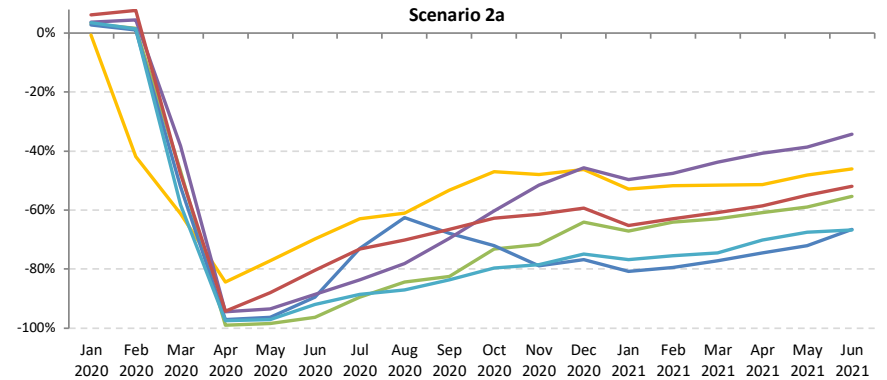
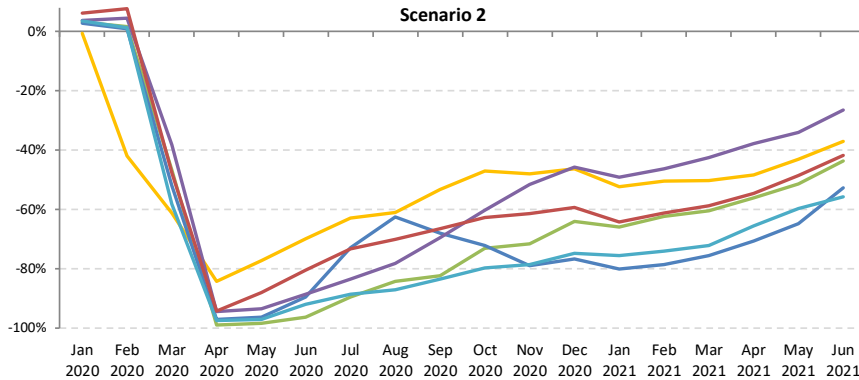
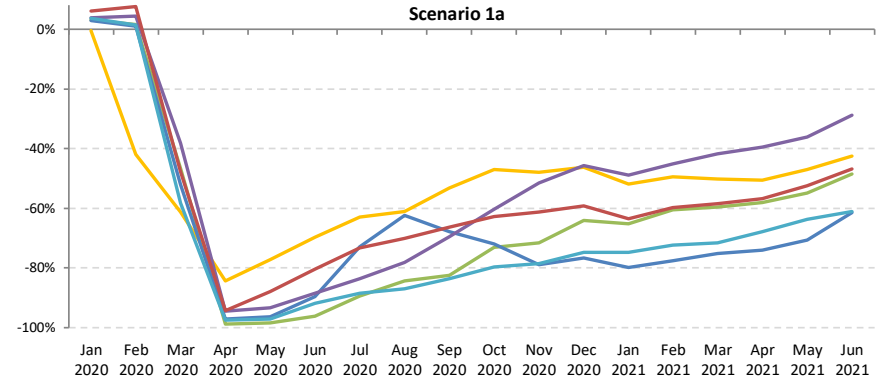
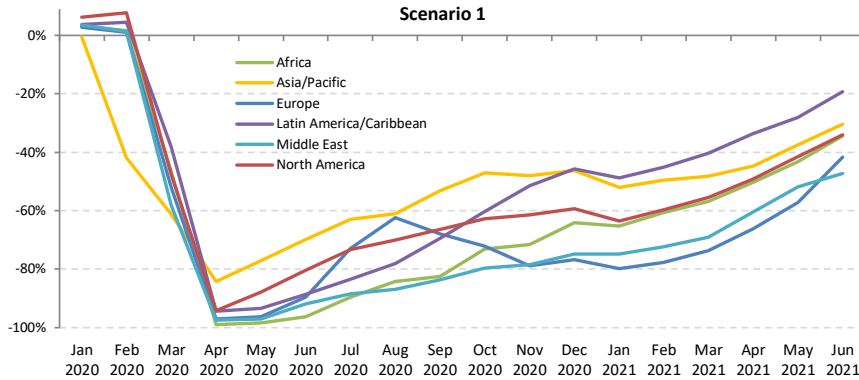


# Seat capacity change compared to 2019: Domestic



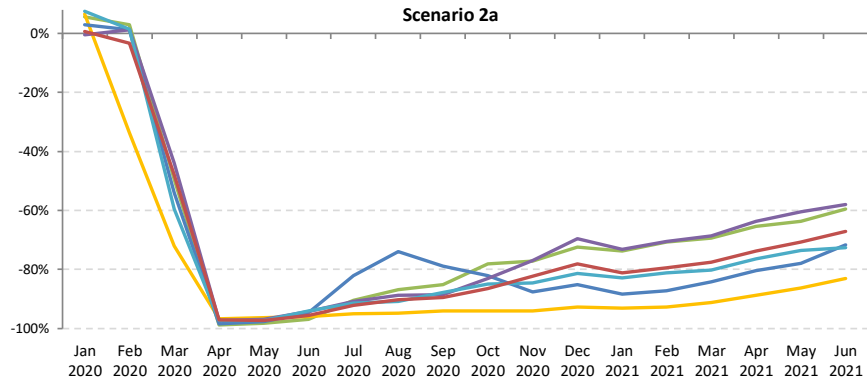
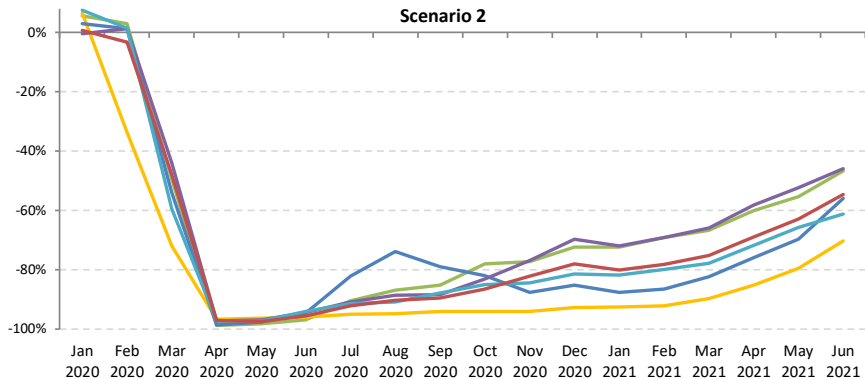
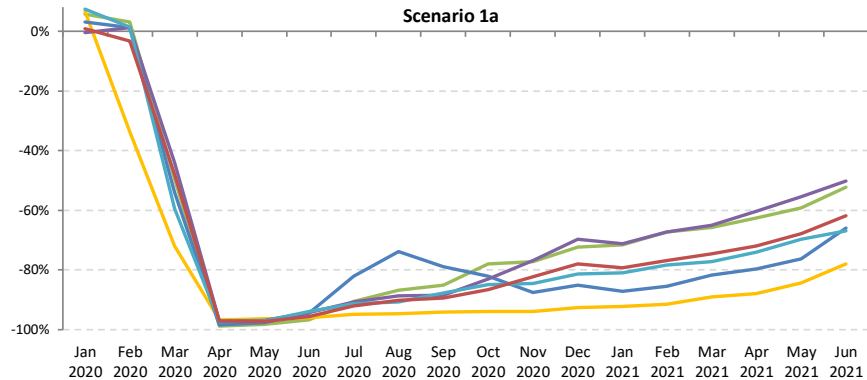
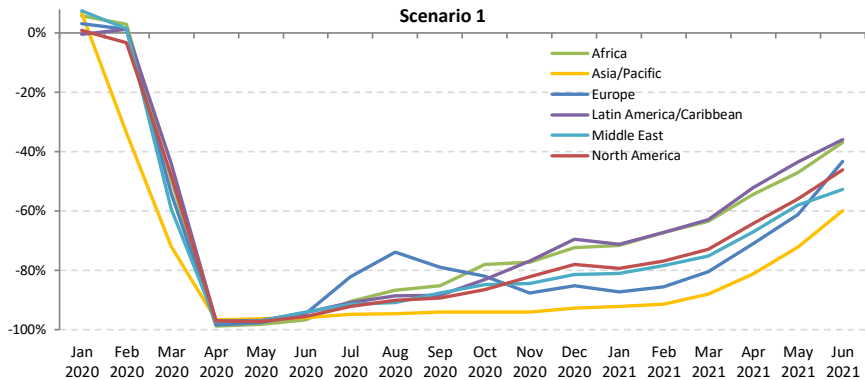


# Passenger number change compared to 2019: International + Domestic



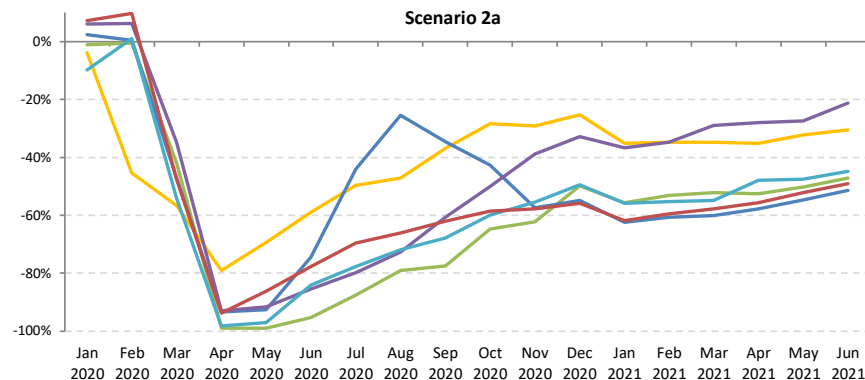
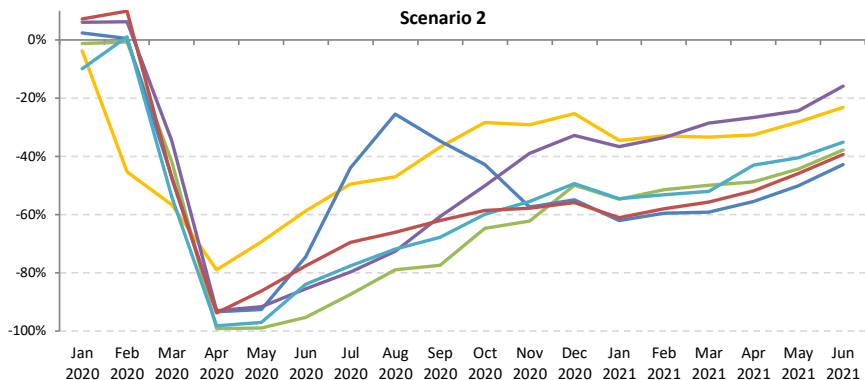
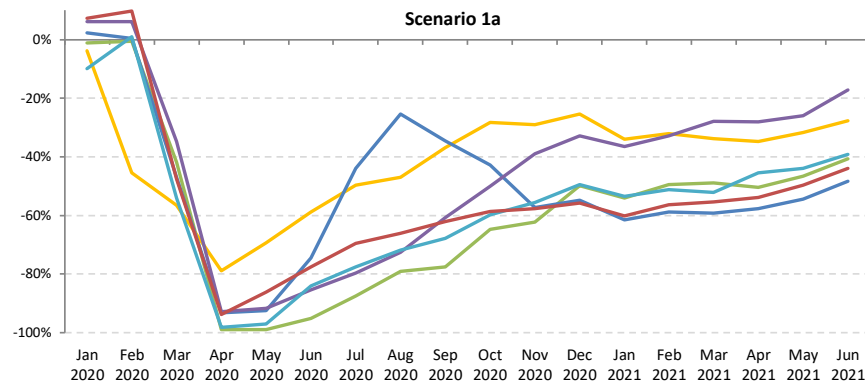
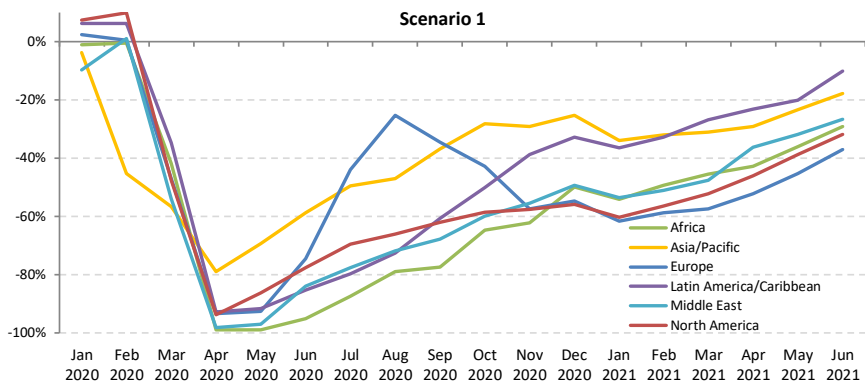


# Passenger number change compared to 2019: International



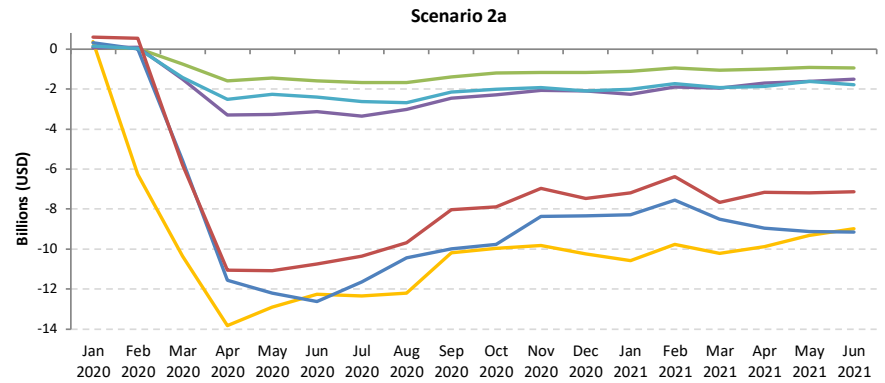
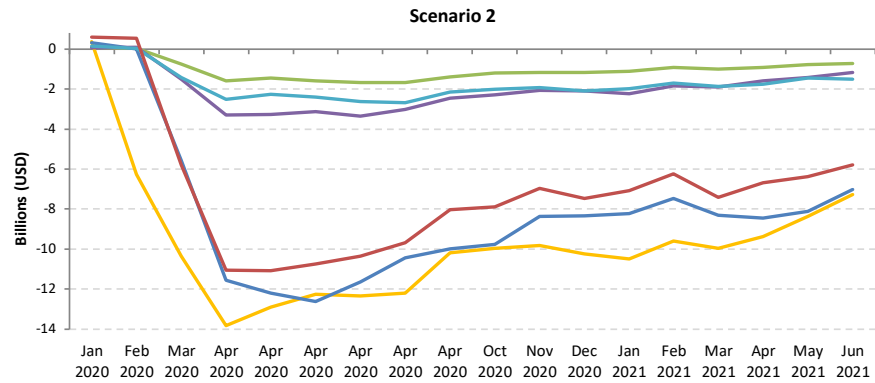
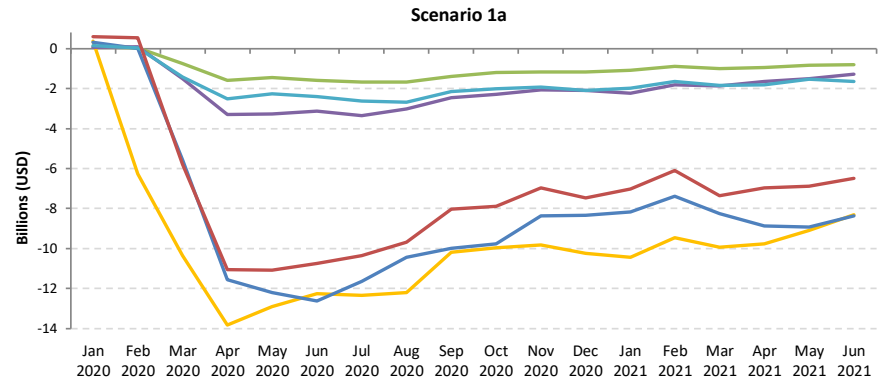
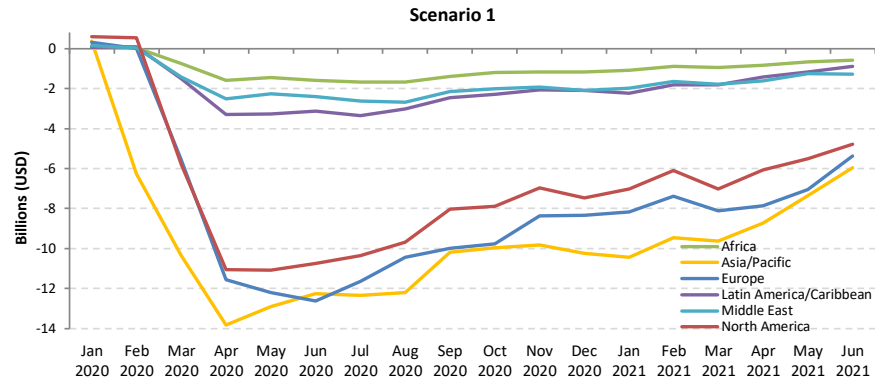


# Passenger number change compared to 2019: Domestic



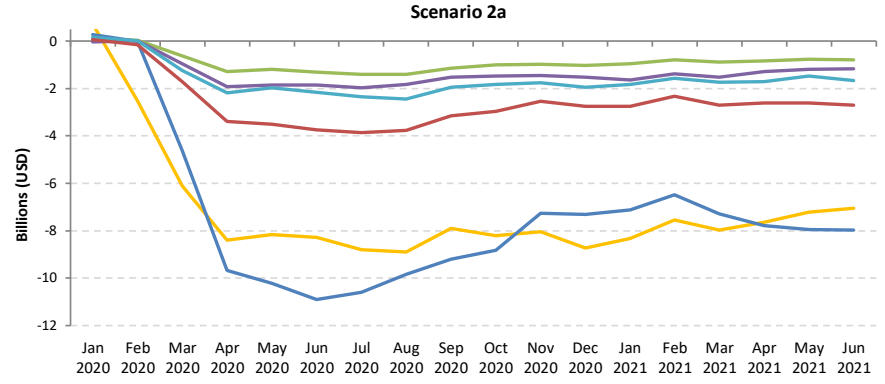
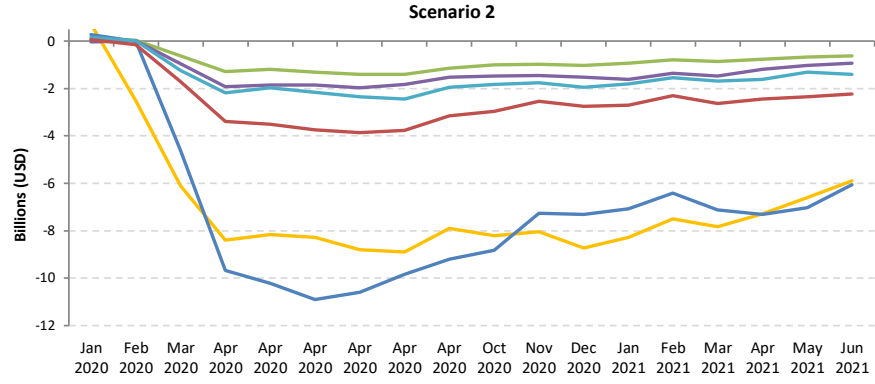
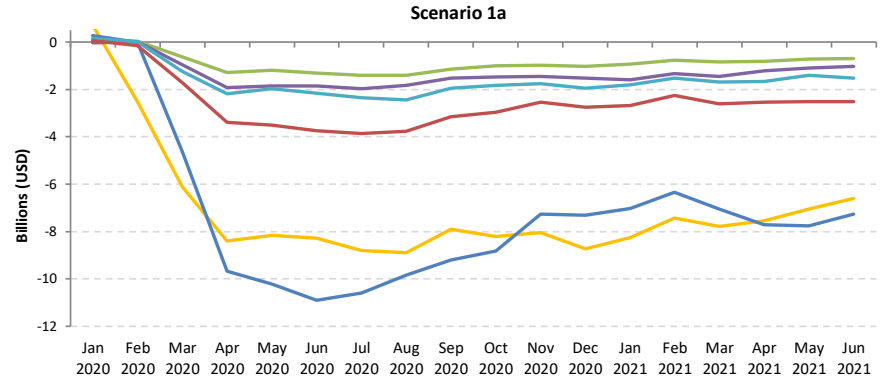
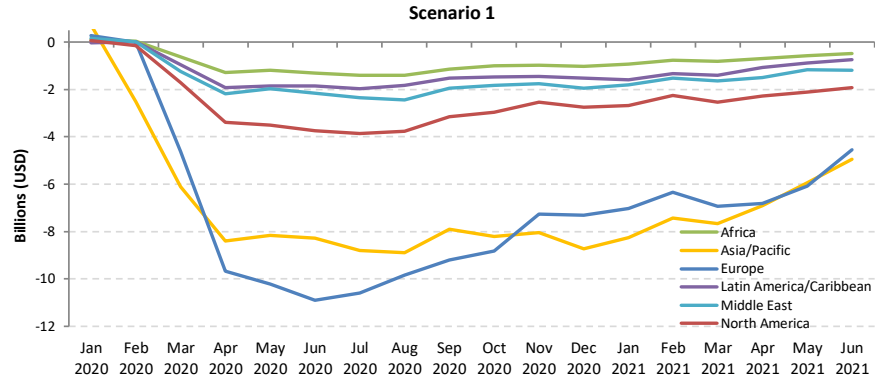


# Passenger revenue change compared to 2019: International + Domestic



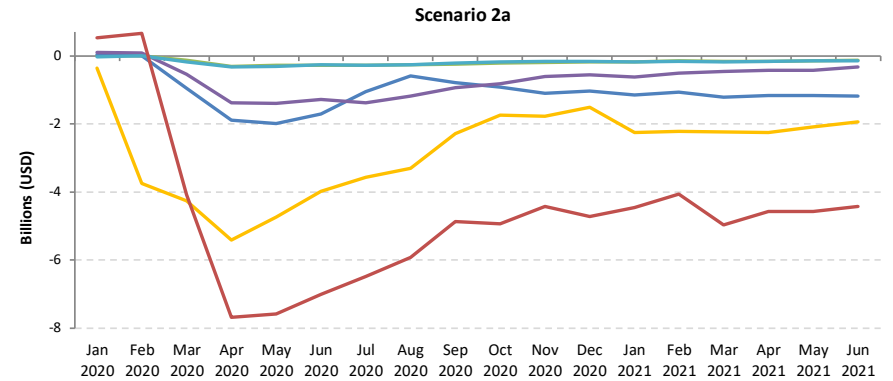
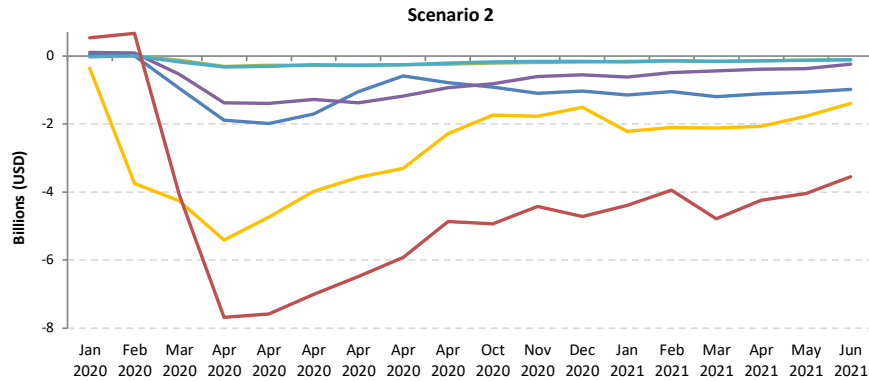
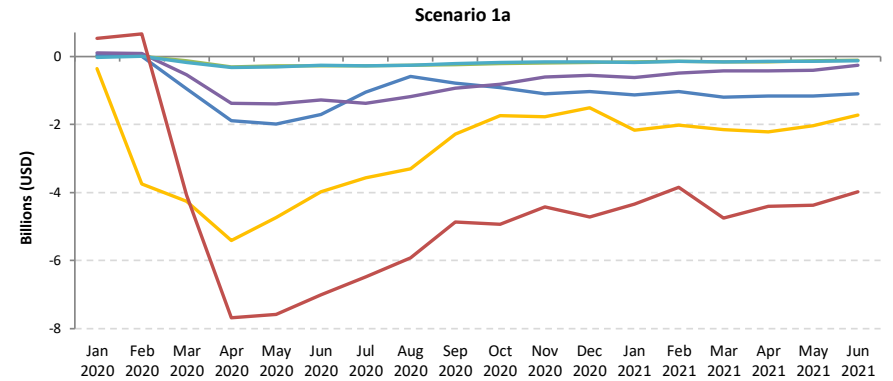
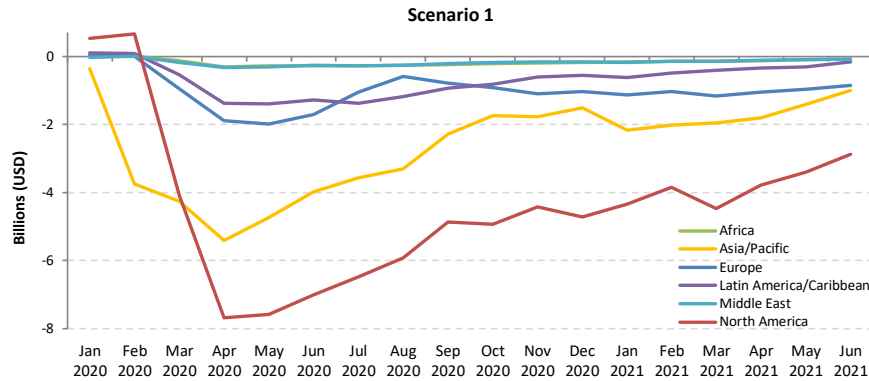


# Passenger revenue change compared to 2019: International





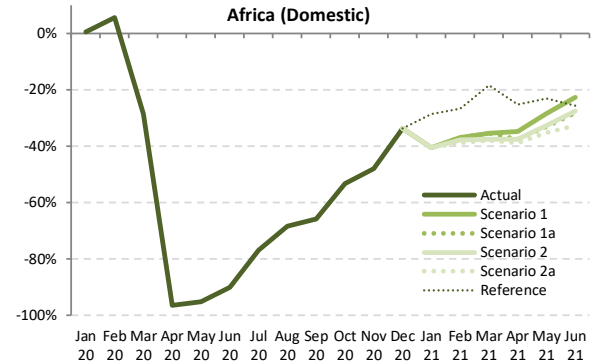
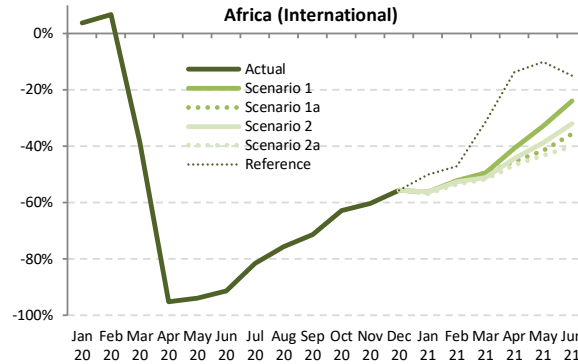
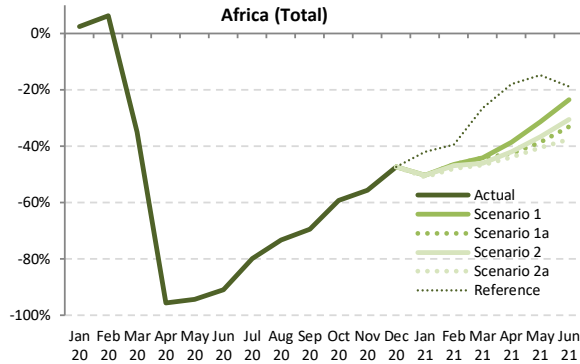
# Passenger revenue change compared to 2019: Domestic





# Africa

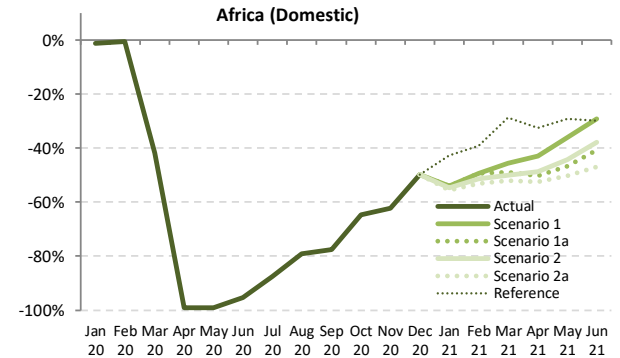
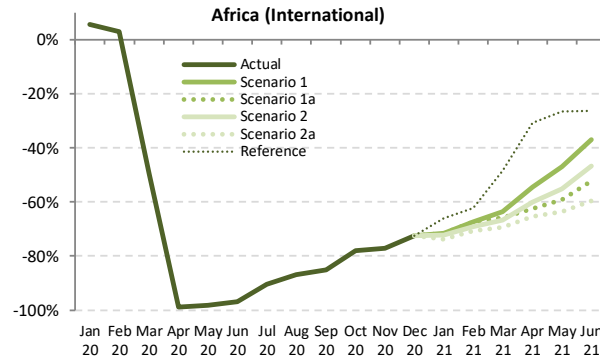
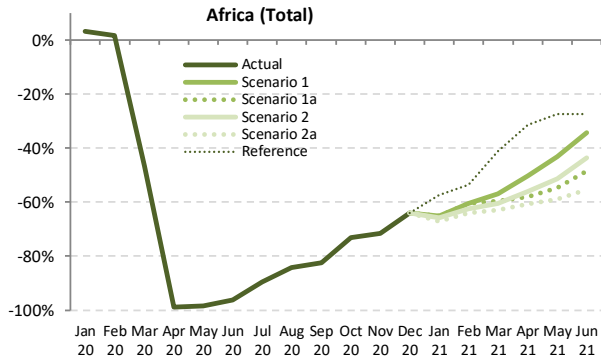
Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-9.2%	-10.0%	-7.9%	-3,972	-14.7%	-2,446	-14.4%	-1,526	-15.2%	-639	-501	-138
2Q 2020	-93.6%	-93.4%	-93.9%	-27,059	-97.9%	-17,663	-97.9%	-9,396	-97.8%	-4,633	-3,781	-852
3Q 2020	-74.3%	-76.3%	-70.3%	-27,055	-85.5%	-18,436	-87.6%	-8,619	-81.3%	-4,719	-3,938	-781
4Q 2020	-54.0%	-59.6%	-44.9%	-20,032	-69.5%	-13,704	-75.8%	-6,328	-58.8%	-3,558	-2,984	-574
<b>Total 2020</b>	<b>-58.3%</b>	<b>-60.8%</b>	<b>-53.7%</b>	<b>-78,118</b>	<b>-67.9%</b>	<b>-52,250</b>	<b>-70.5%</b>	<b>-25,869</b>	<b>-63.1%</b>	<b>-13,549</b>	<b>-11,204</b>	<b>-2,345</b>
1Q 2021	-48.5% to -47.1%	-54.1% to -52.6%	-39.1% to -37.7%	-17,472 to -16,437	-64.7% to -60.9%	-12,086 to -11,444	-71.3% to -67.5%	-5,387 to -4,994	-53.6% to -49.7%	-3,123 to -2,946	-2,634 to -2,494	-488 to -453
2Q 2021	-40.6% to -31.0%	-43.3% to -32.3%	-35.6% to -28.7%	-16,131 to -11,776	-58.4% to -42.6%	-11,326 to -8,294	-62.8% to -46.0%	-4,806 to -3,482	-50.0% to -36.2%	-2,840 to -2,063	-2,404 to -1,747	-436 to -316
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-44.5% to -39.0%</b>	<b>-48.6% to -42.3%</b>	<b>-37.4% to -33.3%</b>	<b>-33,604 to -28,214</b>	<b>-61.5% to -51.6%</b>	<b>-23,411 to -19,738</b>	<b>-66.9% to -56.4%</b>	<b>-10,192 to -8,476</b>	<b>-51.9% to -43.1%</b>	<b>-5,963 to -5,010</b>	<b>-5,039 to -4,241</b>	<b>-924 to -768</b>



Seat Capacity (thousand) - Africa International + Domestic																			
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	13,048	13,971	13,368	320	2.5%	-603	-4.3%	14,486	6,472	6,472	6,472	6,412	7,562	-6,636 to -6,576	-50.9% to -50.4%	-6,956 to -6,896	-52.0% to -51.6%	-8,074 to -8,014	-55.7% to -55.3%
February	11,569	12,824	12,294	725	6.3%	-529	-4.1%	13,282	6,200	6,200	6,129	6,027	7,003	-5,542 to -5,369	-47.9% to -46.4%	-6,267 to -6,094	-51.0% to -49.6%	-7,255 to -7,082	-54.6% to -53.3%
March	12,882	13,758	8,384	-4,497	-34.9%	-5,374	-39.1%	14,009	7,181	7,181	6,951	6,863	9,465	-6,018 to -5,701	-46.7% to -44.3%	-1,521 to -1,204	-18.1% to -14.4%	-7,146 to -6,828	-51.0% to -48.7%
April	12,589	13,368	550	-12,039	-95.6%	-12,818	-95.9%	13,896	7,732	7,223	7,303	7,070	10,324	-5,519 to -4,857	-43.8% to -38.6%	6,520 to 7,182	1185.5% to 1305.8%	-6,825 to -6,164	-49.1% to -44.4%
May	12,387	13,285	704	-11,684	-94.3%	-12,581	-94.7%	13,918	8,509	7,605	7,846	7,376	10,551	-5,011 to -3,878	-40.5% to -31.3%	6,672 to 7,805	948.1% to 1109.1%	-6,542 to -5,409	-47.0% to -38.9%
June	12,962	13,923	1,175	-11,787	-90.9%	-12,748	-91.6%	14,701	9,920	8,664	9,008	8,087	10,528	-4,874 to -3,042	-37.6% to -23.5%	6,912 to 8,745	588.3% to 744.3%	-6,614 to -4,781	-45.0% to -32.5%
July	14,134	14,843	2,838	-11,296	-79.9%	-12,005	-80.9%	-	-	-	-	-	-	-	-	-	-	-	-
August	14,479	15,014	3,881	-10,598	-73.2%	-11,134	-74.2%	-	-	-	-	-	-	-	-	-	-	-	-
September	13,374	14,050	4,086	-9,287	-69.4%	-9,964	-70.9%	-	-	-	-	-	-	-	-	-	-	-	-
October	13,313	13,964	5,413	-7,900	-59.3%	-8,550	-61.2%	-	-	-	-	-	-	-	-	-	-	-	-
November	12,870	13,666	5,721	-7,149	-55.5%	-7,944	-58.1%	-	-	-	-	-	-	-	-	-	-	-	-
December	13,763	14,829	7,245	-6,518	-47.4%	-7,583	-51.1%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	37,498	40,553	34,047	-3,452	-9.2%	-6,507	-16.0%	41,777	19,853	19,853	19,552	19,302	24,030	-18,196 to -17,645	-48.5% to -47.1%	-14,744 to -14,194	-43.3% to -41.7%	-22,475 to -21,924	-53.8% to -52.5%
2Q	37,938	40,575	2,429	-35,510	-93.6%	-38,147	-94.0%	42,515	26,160	23,492	24,157	22,534	31,403	-15,405 to -11,778	-40.6% to -31.0%	20,105 to 23,732	827.8% to 977.2%	-19,981 to -16,354	-47.0% to -38.5%
3Q	41,986	43,907	10,805	-31,181	-74.3%	-33,102	-75.4%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	39,946	42,458	18,380	-21,567	-54.0%	-24,078	-56.7%	-	-	-	-	-	-	-	-	-	-	-	-
Total	157,369	167,493	65,660	-91,709	-58.3%	-101,833	-60.8%	84,292	46,013	43,345	43,709	41,836	55,433	-33,600 to -29,423	-44.5% to -39.0%	5,361 to 9,538	14.7% to 26.1%	-42,456 to -38,278	-50.4% to -45.4%

Seat Capacity (thousand) - Africa International																			
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	8,171	8,853	8,471	300	3.7%	-382	-4.3%	9,075	3,577	3,577	3,577	3,517	4,081	-4,654 to -4,594	-57.0% to -56.2%	-4,954 to -4,894	-58.5% to -57.8%	-5,558 to -5,498	-61.2% to -60.6%
February	7,203	8,142	7,688	485	6.7%	-454	-5.6%	8,400	3,445	3,445	3,413	3,356	3,807	-3,847 to -3,758	-53.4% to -52.2%	-4,332 to -4,243	-56.3% to -55.2%	-5,044 to -4,955	-60.0% to -59.0%
March	8,114	8,793	4,981	-3,133	-38.6%	-3,812	-43.3%	8,903	4,103	4,103	3,971	3,903	5,574	-4,211 to -4,011	-51.9% to -49.4%	-1,078 to -878	-21.6% to -17.6%	-4,999 to -4,799	-56.2% to -53.9%
April	8,048	8,741	393	-7,655	-95.1%	-8,348	-95.5%	9,245	4,771	4,388	4,472	4,294	6,934	-3,754 to -3,277	-46.6% to -40.7%	3,901 to 4,378	992.9% to 1114.1%	-4,950 to -4,474	-53.5% to -48.4%
May	7,984	8,719	495	-7,489	-93.8%	-8,224	-94.3%	9,285	5,357	4,664	4,880	4,521	7,167	-3,462 to -2,627	-43.4% to -32.9%	4,027 to 4,862	813.8% to 982.8%	-4,764 to -3,928	-51.3% to -42.3%
June	8,495	9,291	727	-7,768	-91.4%	-8,564	-92.2%	9,964	6,467	5,459	5,774	5,085	7,212	-3,411 to -2,028	-40.1% to -23.9%	4,358 to 5,740	599.5% to 789.7%	-4,879 to -3,496	-49.0% to -35.1%
July	9,364	9,969	1,731	-7,634	-81.5%	-8,238	-82.6%	-	-	-	-	-	-	-	-	-	-	-	-
August	9,643	10,171	2,349	-7,294	-75.6%	-7,822	-76.9%	-	-	-	-	-	-	-	-	-	-	-	-
September	8,574	9,168	2,448	-6,126	-71.5%	-6,721	-73.3%	-	-	-	-	-	-	-	-	-	-	-	-
October	8,296	8,800	3,075	-5,221	-62.9%	-5,725	-65.1%	-	-	-	-	-	-	-	-	-	-	-	-
November	7,916	8,486	3,140	-4,776	-60.3%	-5,346	-63.0%	-	-	-	-	-	-	-	-	-	-	-	-
December	8,562	9,275	3,799	-4,762	-55.6%	-5,476	-59.0%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	23,488	25,788	21,140	-2,348	-10.0%	-4,648	-18.0%	26,378	11,125	11,125	10,961	10,777	13,463	-12,712 to -12,363	-54.1% to -52.6%	-10,363 to -10,014	-49.0% to -47.4%	-15,601 to -15,253	-59.1% to -57.8%
2Q	24,527	26,751	1,615	-22,913	-93.4%	-25,137	-94.0%	28,493	16,595	14,511	15,126	13,900	21,313	-10,627 to -7,932	-43.3% to -32.3%	12,286 to 14,981	760.9% to 927.8%	-14,593 to -11,898	-51.2% to -41.8%
3Q	27,581	29,308	6,527	-21,054	-76.3%	-22,781	-77.7%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	24,774	26,561	10,015	-14,759	-59.6%	-16,547	-62.3%	-	-	-	-	-	-	-	-	-	-	-	-
Total	100,370	108,409	39,296	-61,074	-60.8%	-69,113	-63.8%	54,871	27,721	25,637	26,087	24,677	34,776	-23,339 to -20,295	-48.6% to -42.3%	1,922 to 4,966	8.4% to 21.8%	-30,194 to -27,151	-55.0% to -49.5%

Seat Capacity (thousand) - Africa Domestic																			
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	4,877	5,119	4,897	21	0.4%	-221	-4.3%	5,411	2,895	2,895	2,895	2,895	3,481	-1,982 to -1,982	-40.6% to -40.6%	-2,002 to -2,002	-40.9% to -40.9%	-2,516 to -2,516	-46.5% to -46.5%
February	4,366	4,682	4,606	240	5.5%	-75	-1.6%	4,882	2,755	2,755	2,716	2,671	3,196	-1,695 to -1,611	-38.8% to -36.9%	-1,936 to -1,851	-42.0% to -40.2%	-2,211 to -2,127	-45.3% to -43.6%
March	4,767	4,965	3,403	-1,364	-28.6%	-1,562	-31.5%	5,106	3,078	3,078	2,980	2,960	3,890	-1,807 to -1,690	-37.9% to -35.4%	-443 to -325	-13.0% to -9.6%	-2,146 to -2,029	-42.0% to -39.7%
April	4,541	4,627	157	-4,384	-96.5%	-4,469	-96.6%	4,651	2,961	2,835	2,831	2,776	3,390	-1,765 to -1,580	-38.9% to -34.8%	2,619 to 2,804	1667.7% to 1785.3%	-1,875 to -1,690	-40.3% to -36.3%
May	4,404	4,566	209	-4,195	-95.3%	-4,357	-95.4%	4,633	3,152	2,941	2,966	2,855	3,384	-1,549 to -1,252	-35.2% to -28.4%	2,646 to 2,943	1266.0% to 1408.3%	-1,778 to -1,481	-38.4% to -32.0%
June	4,466	4,632	448	-4,018	-90.0%	-4,184	-90.3%	4,737	3,452	3,205	3,233	3,003	3,316	-1,464 to -1,014	-32.8% to -22.7%	2,555 to 3,004	570.2% to 670.6%	-1,735 to -1,285	-36.6% to -27.1%
July	4,770	4,874	1,107	-3,663	-76.8%	-3,767	-77.3%	-	-	-	-	-	-	-	-	-	-	-	-
August	4,836	4,843	1,532	-3,304	-68.3%	-3,311	-68.4%	-	-	-	-	-	-	-	-	-	-	-	-
September	4,800	4,881	1,639	-3,161	-65.9%	-3,243	-66.4%	-	-	-	-	-	-	-	-	-	-	-	-
October	5,017	5,163	2,338	-2,679	-53.4%	-2,825	-54.7%	-	-	-	-	-	-	-	-	-	-	-	-
November	4,954	5,180	2,581	-2,373	-47.9%	-2,598	-50.2%	-	-	-	-	-	-	-	-	-	-	-	-
December	5,202	5,554	3,446	-1,756	-33.8%	-2,108	-38.0%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	14,010	14,765	12,907	-1,103	-7.9%	-1,859	-12.6%	15,399	8,727	8,727	8,591	8,525	10,567	-5,484 to -5,282	-39.1% to -37.7%	-4,381 to -4,179	-33.9% to -32.4%	-6,874 to -6,672	-44.6% to -43.3%
2Q	13,411	13,824	814	-12,597	-93.9%	-13,010	-94.1%	14,021	9,565	8,981	9,031	8,633	10,090	-4,778 to -3,846	-35.6% to -28.7%	7,819 to 8,751	960.6% to 1075.0%	-5,388 to -4,456	-38.4% to -31.8%
3Q	14,405	14,599	4,278	-10,128	-70.3%	-10,321	-70.7%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	15,172	15,896	8,365	-6,807	-44.9%	-7,531	-47.4%	-	-	-	-	-	-	-	-	-	-	-	-
Total	56,999	59,084	26,364	-30,635	-53.7%	-32,721	-55.4%	29,420	18,293	17,708	17,621	17,159	20,658	-10,262 to -9,128	-37.4% to -33.3%	3,438 to 4,572	25.1% to 33.3%	-12,262 to -11,128	-41.7% to -37.8%

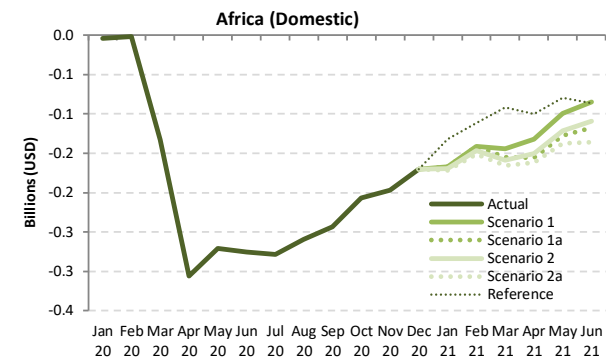
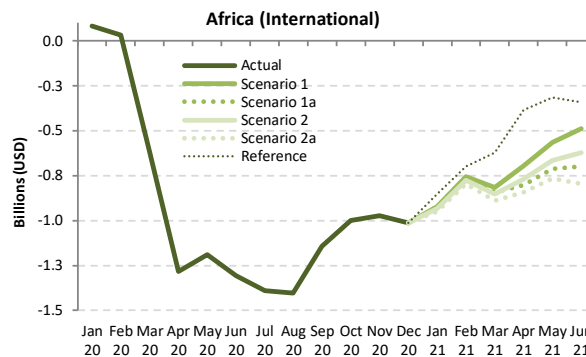
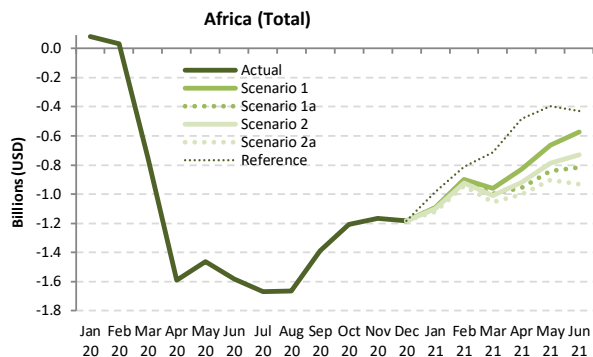


Passenger Number (thousand) - Africa International + Domestic

Year	2020														2021							
	Actual		Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline			
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1		
January	9,279	9,958	9,573	294	3.2%	-385	-3.9%	10,346	3,231	3,231	3,165	3,055	3,948	3,948	-6,224 to -6,048	-67.1% to -65.2%	-6,518 to -6,342	-68.1% to -66.3%	-7,291 to -7,115	-70.5% to -68.8%		
February	8,290	9,203	8,427	137	1.7%	-777	-8.4%	9,555	3,267	3,267	3,117	2,980	3,849	3,849	-5,310 to -5,023	-64.1% to -60.6%	-5,447 to -5,160	-64.6% to -61.2%	-6,575 to -6,288	-68.8% to -65.8%		
March	9,427	10,078	5,025	-4,403	-46.7%	-5,054	-50.1%	10,284	4,061	3,814	3,729	3,489	5,538	5,538	-5,938 to -5,366	-63.0% to -56.9%	-1,536 to -964	-30.6% to -19.2%	-6,795 to -6,223	-66.1% to -60.5%		
April	9,492	10,114	103	-9,389	-98.9%	-10,012	-99.0%	10,564	4,720	3,971	4,172	3,720	6,518	6,518	-5,772 to -4,772	-60.8% to -50.3%	3,618 to 4,617	3522.2% to 4495.3%	-6,843 to -5,844	-64.8% to -55.3%		
May	8,653	9,292	130	-8,524	-98.5%	-9,162	-98.6%	9,754	4,910	3,908	4,199	3,550	6,278	6,278	-5,103 to -3,744	-59.0% to -43.3%	3,420 to 4,780	2633.2% to 3679.8%	-6,204 to -4,845	-63.6% to -49.7%		
June	9,498	10,250	352	-9,146	-96.3%	-9,898	-96.6%	10,895	6,238	4,894	5,344	4,242	6,887	6,887	-5,256 to -3,260	-55.3% to -34.3%	3,890 to 5,886	1105.8% to 1673.2%	-6,653 to -4,657	-61.1% to -42.7%		
July	10,663	11,233	1,117	-9,547	-89.5%	-10,116	-90.1%	-	-	-	-	-	-	-	-	-	-	-	-	-		
August	11,167	11,618	1,753	-9,415	-84.3%	-9,866	-84.9%	-	-	-	-	-	-	-	-	-	-	-	-	-		
September	9,818	10,345	1,724	-8,094	-82.4%	-8,621	-83.3%	-	-	-	-	-	-	-	-	-	-	-	-	-		
October	9,519	9,998	2,556	-6,962	-73.1%	-7,442	-74.4%	-	-	-	-	-	-	-	-	-	-	-	-	-		
November	9,222	9,805	2,622	-6,601	-71.6%	-7,183	-73.3%	-	-	-	-	-	-	-	-	-	-	-	-	-		
December	10,102	10,903	3,633	-6,469	-64.0%	-7,270	-66.7%	-	-	-	-	-	-	-	-	-	-	-	-	-		
1Q	26,996	29,240	23,024	-3,972	-14.7%	-6,216	-21.3%	30,184	10,559	10,312	10,011	9,524	13,335	13,335	-17,472 to -16,437	-64.7% to -60.9%	-13,500 to -12,466	-58.6% to -54.1%	-20,660 to -19,626	-68.4% to -65.0%		
2Q	27,644	29,656	584	-27,059	-97.9%	-29,071	-98.0%	31,213	15,867	12,772	13,715	11,513	19,683	19,683	-16,131 to -11,776	-58.4% to -42.6%	10,928 to 15,283	1870.0% to 2615.2%	-19,701 to -15,346	-63.1% to -49.2%		
3Q	31,649	33,196	4,593	-27,055	-85.5%	-28,603	-86.2%	-	-	-	-	-	-	-	-	-	-	-	-	-		
4Q	28,843	30,705	8,811	-20,032	-69.5%	-21,894	-71.3%	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total	115,131	122,797	37,013	-78,118	-67.9%	-85,784	-69.9%	61,398	26,426	23,084	23,726	21,036	33,017	33,017	-33,604 to -28,214	-61.5% to -51.6%	-2,572 to 2,817	-10.9% to 11.9%	-40,361 to -34,972	-65.7% to -57.0%		

Passenger Number (thousand) - Africa International																			
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	5,871	6,378	6,206	335	5.7%	-172	-2.7%	6,558	1,668	1,668	1,624	1,543	1,995	-4,328 to -4,203	-73.7% to -71.6%	-4,662 to -4,537	-75.1% to -73.1%	-5,015 to -4,890	-76.5% to -74.6%
February	5,149	5,832	5,305	156	3.0%	-527	-9.0%	6,037	1,680	1,680	1,590	1,507	1,941	-3,642 to -3,469	-70.7% to -67.4%	-3,798 to -3,625	-71.6% to -68.3%	-4,530 to -4,357	-75.0% to -72.2%
March	5,929	6,432	2,992	-2,937	-49.5%	-3,440	-53.5%	6,530	2,158	2,028	1,980	1,814	3,049	-4,115 to -3,772	-69.4% to -63.6%	-1,178 to -835	-39.4% to -27.9%	-4,716 to -4,373	-72.2% to -67.0%
April	6,091	6,646	71	-6,020	-98.8%	-6,574	-98.9%	7,074	2,777	2,283	2,432	2,107	4,221	-3,984 to -3,314	-65.4% to -54.4%	2,036 to 2,706	2861.2% to 3802.0%	-4,966 to -4,297	-70.2% to -60.7%
May	5,633	6,157	100	-5,533	-98.2%	-6,057	-98.4%	6,571	2,983	2,297	2,519	2,048	4,138	-3,586 to -2,651	-63.7% to -47.1%	1,947 to 2,882	1942.3% to 2875.0%	-4,524 to -3,589	-68.8% to -54.6%
June	6,311	6,941	200	-6,111	-96.8%	-6,741	-97.1%	7,509	3,982	3,006	3,364	2,555	4,650	-3,756 to -2,329	-59.5% to -36.9%	2,354 to 3,781	1175.9% to 1888.6%	-4,954 to -3,527	-66.0% to -47.0%
July	7,156	7,645	679	-6,477	-90.5%	-6,966	-91.1%	-	-	-	-	-	-	-	-	-	-	-	-
August	7,547	7,989	994	-6,553	-86.8%	-6,996	-87.6%	-	-	-	-	-	-	-	-	-	-	-	-
September	6,349	6,814	943	-5,406	-85.1%	-5,871	-86.2%	-	-	-	-	-	-	-	-	-	-	-	-
October	6,002	6,376	1,318	-4,684	-78.0%	-5,058	-79.3%	-	-	-	-	-	-	-	-	-	-	-	-
November	5,733	6,153	1,305	-4,428	-77.2%	-4,847	-78.8%	-	-	-	-	-	-	-	-	-	-	-	-
December	6,344	6,887	1,752	-4,592	-72.4%	-5,135	-74.6%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	16,949	18,642	14,503	-2,446	-14.4%	-4,139	-22.2%	19,125	5,506	5,376	5,194	4,864	6,986	-12,086 to -11,444	-71.3% to -67.5%	-9,639 to -8,997	-66.5% to -62.0%	-14,261 to -13,619	-74.6% to -71.2%
2Q	18,035	19,745	372	-17,663	-97.9%	-19,373	-98.1%	21,154	9,741	7,586	8,315	6,709	13,008	-11,326 to -8,294	-62.8% to -46.0%	6,338 to 9,369	1705.4% to 2521.1%	-14,444 to -11,413	-68.3% to -54.0%
3Q	21,052	22,448	2,616	-18,436	-87.6%	-19,833	-88.3%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	18,078	19,415	4,375	-13,704	-75.8%	-15,040	-77.5%	-	-	-	-	-	-	-	-	-	-	-	-
Total	74,115	80,250	21,865	-52,250	-70.5%	-58,385	-72.8%	40,278	15,247	12,962	13,509	11,573	19,994	-23,411 to -19,738	-66.9% to -56.4%	-3,302 to 372	-22.2% to 2.5%	-28,705 to -25,031	-71.3% to -62.1%

Passenger Number (thousand) - Africa Domestic																			
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	3,408	3,580	3,367	-41	-1.2%	-213	-6.0%	3,788	1,563	1,563	1,540	1,512	1,952	-1,896 to -1,845	-55.6% to -54.2%	-1,855 to -1,805	-55.1% to -53.6%	-2,276 to -2,225	-60.1% to -58.8%
February	3,141	3,371	3,122	-19	-0.6%	-250	-7.4%	3,518	1,587	1,587	1,527	1,473	1,908	-1,668 to -1,554	-53.1% to -49.5%	-1,649 to -1,535	-52.8% to -49.2%	-2,045 to -1,932	-58.1% to -54.9%
March	3,498	3,646	2,032	-1,466	-41.9%	-1,614	-44.3%	3,753	1,903	1,786	1,750	1,675	2,488	-1,823 to -1,594	-52.1% to -45.6%	-357 to -129	-17.6% to -6.3%	-2,078 to -1,850	-55.4% to -49.3%
April	3,401	3,469	32	-3,370	-99.1%	-3,437	-99.1%	3,490	1,943	1,688	1,740	1,613	2,297	-1,788 to -1,458	-52.6% to -42.9%	1,582 to 1,912	5013.2% to 6059.2%	-1,877 to -1,547	-53.8% to -44.3%
May	3,020	3,134	30	-2,990	-99.0%	-3,104	-99.1%	3,183	1,927	1,611	1,680	1,503	2,140	-1,517 to -1,093	-50.2% to -36.2%	1,473 to 1,897	4970.2% to 6402.3%	-1,680 to -1,256	-52.8% to -39.5%
June	3,187	3,308	152	-3,036	-95.2%	-3,157	-95.4%	3,387	2,256	1,888	1,980	1,687	2,237	-1,500 to -931	-47.1% to -29.2%	1,536 to 2,105	1013.2% to 1388.6%	-1,699 to -1,131	-50.2% to -33.4%
July	3,508	3,588	438	-3,070	-87.5%	-3,150	-87.8%	-	-	-	-	-	-	-	-	-	-	-	-
August	3,620	3,629	759	-2,861	-79.0%	-2,870	-79.1%	-	-	-	-	-	-	-	-	-	-	-	-
September	3,469	3,531	781	-2,688	-77.5%	-2,750	-77.9%	-	-	-	-	-	-	-	-	-	-	-	-
October	3,517	3,622	1,238	-2,278	-64.8%	-2,384	-65.8%	-	-	-	-	-	-	-	-	-	-	-	-
November	3,490	3,652	1,317	-2,173	-62.3%	-2,335	-63.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	3,758	4,016	1,881	-1,877	-49.9%	-2,135	-53.2%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	10,047	10,598	8,521	-1,526	-15.2%	-2,077	-19.6%	11,060	5,053	4,935	4,817	4,660	6,349	-5,387 to -4,994	-53.6% to -49.7%	-3,861 to -3,468	-45.3% to -40.7%	-6,400 to -6,007	-57.9% to -54.3%
2Q	9,609	9,911	213	-9,396	-97.8%	-9,698	-97.9%	10,060	6,126	5,187	5,400	4,803	6,674	-4,806 to -3,482	-50.0% to -36.2%	4,590 to 5,914	2157.6% to 2779.6%	-5,257 to -3,933	-52.3% to -39.1%
3Q	10,597	10,748	1,978	-8,619	-81.3%	-8,770	-81.6%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	10,764	11,290	4,436	-6,328	-58.8%	-6,854	-60.7%	-	-	-	-	-	-	-	-	-	-	-	-
Total	41,016	42,547	15,148	-25,869	-63.1%	-27,400	-64.4%	21,119	11,179	10,122	10,217	9,463	13,024	-10,192 to -8,476	-51.9% to -43.1%	729 to 2,445	8.4% to 28.0%	-11,656 to -9,940	-55.2% to -47.1%



Passenger revenue (USD, million) - Africa International + Domestic

Year	2019															2020															2021														
	Actual			Baseline			Estimated			Compared to 2019			Compared to Baseline			Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline																			
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	-	e-a	e/a-1	e-c	e/a-1	e-d							e/d-1																							
January	1,599	1,716	1,678	80	5.0%	-37	-2.2%	1,763	508	508	496	476	615	-1,123 to -1,091	-70.2% to -68.2%	-1,202 to -1,170	-71.6% to -69.7%	-1,287 to -1,255	-73.0% to -71.2%																										
February	1,409	1,573	1,441	32	2.3%	-132	-8.4%	1,616	513	513	488	464	599	-945 to -897	-67.1% to -63.6%	-977 to -929	-67.8% to -64.4%	-1,151 to -1,103	-71.3% to -68.3%																										
March	1,605	1,721	854	-750	-46.8%	-866	-50.4%	1,740	646	607	593	550	892	-1,055 to -959	-65.7% to -59.8%	-304 to -208	-35.6% to -24.4%	-1,190 to -1,094	-68.4% to -62.9%																										
April	1,611	1,720	21	-1,589	-98.7%	-1,699	-98.8%	1,802	784	653	690	608	1,126	-1,003 to -827	-62.3% to -51.4%	587 to 762	2729.8% to 3547.1%	-1,194 to -1,018	-66.3% to -56.5%																										
May	1,489	1,605	27	-1,462	-98.2%	-1,577	-98.3%	1,687	826	649	703	585	1,093	-905 to -663	-60.7% to -44.5%	557 to 799	2033.0% to 2914.0%	-1,102 to -861	-65.3% to -51.0%																										
June	1,644	1,769	62	-1,582	-96.2%	-1,706	-96.5%	1,880	1,072	828	914	712	1,215	-932 to -573	-56.7% to -34.8%	649 to 1,009	1039.1% to 1614.7%	-1,168 to -809	-62.1% to -43.0%																										
July	1,857	1,949	188	-1,669	-89.9%	-1,762	-90.4%	-	-	-	-	-	-	-	-	-	-	-	-																										
August	1,948	2,025	286	-1,663	-85.3%	-1,740	-85.9%	-	-	-	-	-	-	-	-	-	-	-	-																										
September	1,673	1,766	286	-1,388	-82.9%	-1,481	-83.8%	-	-	-	-	-	-	-	-	-	-	-	-																										
October	1,615	1,692	408	-1,207	-74.8%	-1,284	-75.9%	-	-	-	-	-	-	-	-	-	-	-	-																										
November	1,574	1,664	406	-1,168	-74.2%	-1,258	-75.6%	-	-	-	-	-	-	-	-	-	-	-	-																										
December	1,738	1,868	555	-1,183	-68.1%	-1,312	-70.3%	-	-	-	-	-	-	-	-	-	-	-	-																										
1Q	4,613	5,009	3,974	-639	-13.8%	-1,036	-20.7%	5,118	1,666	1,627	1,577	1,490	2,106	-3,123 to -2,946	-67.7% to -63.9%	-2,484 to -2,308	-62.5% to -58.1%	-3,628 to -3,451	-70.9% to -67.4%																										
2Q	4,744	5,094	111	-4,633	-97.7%	-4,983	-97.8%	5,368	2,681	2,130	2,307	1,904	3,435	-2,840 to -2,063	-59.9% to -43.5%	1,793 to 2,570	1609.8% to 2307.2%	-3,464 to -2,687	-64.5% to -50.1%																										
3Q	5,478	5,741	759	-4,719	-86.1%	-4,982	-86.8%	-	-	-	-	-	-	-	-	-	-	-	-																										
4Q	4,927	5,224	1,369	-3,558	-72.2%	-3,855	-73.8%	-	-	-	-	-	-	-	-	-	-	-	-																										
Total	19,762	21,068	6,213	-13,549	-68.6%	-14,855	-70.5%	10,486	4,348	3,758	3,884	3,395	5,541	-5,963 to -5,010	-63.7% to -53.5%	-691 to 262	-16.9% to 6.4%	-7,092 to -6,139	-67.6% to -58.5%																										

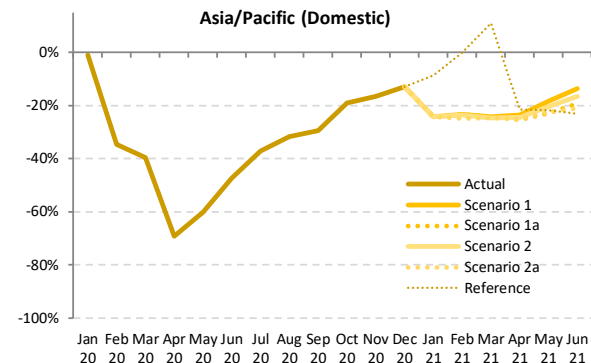
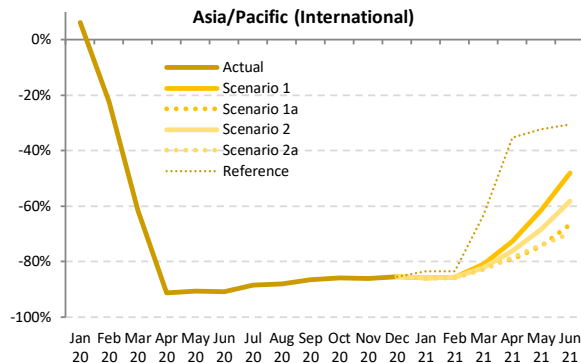
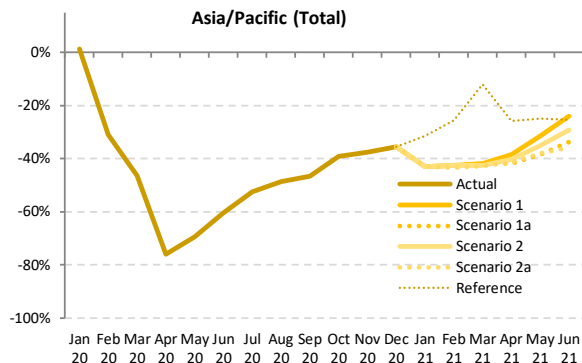
Passenger revenue (USD, million) - Africa International																			
Year	2019			2020						2021									
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	1,290	1,391	1,373	83	6.5%	-18	-1.3%	1,419	366	366	357	339	438	-951 to -923	-73.7% to -71.6%	-1,034 to -1,007	-75.3% to -73.3%	-1,080 to -1,053	-76.1% to -74.2%
February	1,125	1,267	1,158	34	3.0%	-109	-8.6%	1,297	369	369	349	331	426	-794 to -756	-70.6% to -67.2%	-828 to -790	-71.4% to -68.2%	-966 to -928	-74.5% to -71.6%
March	1,288	1,390	670	-618	-48.0%	-720	-51.8%	1,399	473	445	434	398	666	-890 to -814	-69.1% to -63.3%	-272 to -197	-40.6% to -29.4%	-1,001 to -926	-71.6% to -66.2%
April	1,303	1,406	19	-1,284	-98.6%	-1,387	-98.7%	1,485	607	500	533	462	918	-841 to -695	-64.6% to -53.4%	443 to 589	2379.2% to 3161.4%	-1,023 to -878	-68.9% to -59.1%
May	1,215	1,321	25	-1,191	-98.0%	-1,296	-98.1%	1,398	651	503	551	448	899	-767 to -564	-63.1% to -46.4%	424 to 627	1713.8% to 2535.0%	-950 to -747	-67.9% to -53.4%
June	1,355	1,469	49	-1,307	-96.4%	-1,420	-96.7%	1,573	867	657	734	559	1,013	-796 to -488	-58.8% to -36.0%	510 to 818	1046.4% to 1678.4%	-1,014 to -706	-64.5% to -44.9%
July	1,539	1,624	148	-1,391	-90.4%	-1,476	-90.9%	-	-	-	-	-	-	-	-	-	-	-	-
August	1,620	1,696	217	-1,403	-86.6%	-1,479	-87.2%	-	-	-	-	-	-	-	-	-	-	-	-
September	1,359	1,446	215	-1,144	-84.2%	-1,231	-85.1%	-	-	-	-	-	-	-	-	-	-	-	-
October	1,296	1,363	295	-1,001	-77.2%	-1,068	-78.3%	-	-	-	-	-	-	-	-	-	-	-	-
November	1,258	1,333	287	-971	-77.2%	-1,047	-78.5%	-	-	-	-	-	-	-	-	-	-	-	-
December	1,398	1,504	385	-1,013	-72.5%	-1,119	-74.4%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	3,702	4,049	3,202	-501	-13.5%	-847	-20.9%	4,115	1,208	1,180	1,140	1,068	1,530	-2,634 to -2,494	-71.2% to -67.4%	-2,134 to -1,993	-66.6% to -62.3%	-3,048 to -2,907	-74.1% to -70.6%
2Q	3,873	4,196	92	-3,781	-97.6%	-4,104	-97.8%	4,457	2,126	1,660	1,818	1,469	2,830	-2,404 to -1,747	-62.1% to -45.1%	1,377 to 2,034	1495.1% to 2208.2%	-2,988 to -2,331	-67.0% to -52.3%
3Q	4,518	4,767	580	-3,938	-87.2%	-4,187	-87.8%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	3,951	4,200	967	-2,984	-75.5%	-3,234	-77.0%	-	-	-	-	-	-	-	-	-	-	-	-
Total	16,044	17,211	4,840	-11,204	-69.8%	-12,371	-71.9%	8,572	3,334	2,840	2,958	2,537	4,360	-5,039 to -4,241	-66.5% to -56.0%	-757 to 41	-23.0% to 1.2%	-6,035 to -5,238	-70.4% to -61.1%

Passenger revenue (USD, million) - Africa Domestic																			
Year	2019			2020						2021									
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	309	325	305	-4	-1.2%	-19	-6.0%	343	142	142	140	137	177	-172 to -167	-55.6% to -54.2%	-168 to -164	-55.1% to -53.6%	-206 to -202	-60.1% to -58.8%
February	285	306	283	-2	-0.6%	-23	-7.4%	319	144	144	138	134	173	-151 to -141	-53.1% to -49.5%	-149 to -139	-52.8% to -49.2%	-185 to -175	-58.1% to -54.9%
March	317	331	184	-133	-41.9%	-146	-44.3%	340	173	162	159	152	226	-165 to -145	-52.1% to -45.6%	-32 to -12	-17.6% to -6.3%	-188 to -168	-55.4% to -49.3%
April	308	314	3	-305	-99.1%	-312	-99.1%	316	176	153	158	146	208	-162 to -132	-52.6% to -42.9%	143 to 173	5013.2% to 6059.2%	-170 to -140	-53.8% to -44.3%
May	274	284	3	-271	-99.0%	-281	-99.1%	289	175	146	152	136	194	-138 to -99	-50.2% to -36.2%	134 to 172	4970.2% to 6402.3%	-152 to -114	-52.8% to -39.5%
June	289	300	14	-275	-95.2%	-286	-95.4%	307	205	171	179	153	203	-136 to -84	-47.1% to -29.2%	139 to 191	1013.2% to 1388.6%	-154 to -102	-50.2% to -33.4%
July	318	325	40	-278	-87.5%	-286	-87.8%	-	-	-	-	-	-	-	-	-	-	-	-
August	328	329	69	-259	-79.0%	-260	-79.1%	-	-	-	-	-	-	-	-	-	-	-	-
September	314	320	71	-244	-77.5%	-249	-77.9%	-	-	-	-	-	-	-	-	-	-	-	-
October	319	328	112	-207	-64.8%	-216	-65.8%	-	-	-	-	-	-	-	-	-	-	-	-
November	316	331	119	-197	-62.3%	-212	-63.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	341	364	171	-170	-49.9%	-194	-53.2%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	911	961	772	-138	-15.2%	-188	-19.6%	1,003	458	447	437	422	576	-488 to -453	-53.6% to -49.7%	-350 to -314	-45.3% to -40.7%	-580 to -545	-57.9% to -54.3%
2Q	871	898	19	-852	-97.8%	-879	-97.9%	912	555	470	489	435	605	-436 to -316	-50.0% to -36.2%	416 to 536	2157.6% to 2779.6%	-476 to -357	-52.3% to -39.1%
3Q	961	974	179	-781	-81.3%	-795	-81.6%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	976	1,023	402	-574	-58.8%	-621	-60.7%	-	-	-	-	-	-	-	-	-	-	-	-
Total	3,718	3,857	1,373	-2,345	-63.1%	-2,484	-64.4%	1,914	1,013	918	926	858	1,181	-924 to -768	-51.9% to -43.1%	66 to 222	8.4% to 28.0%	-1,057 to -901	-55.2% to -47.1%

## Asia/Pacific

Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-25.1%	-25.9%	-24.7%	-140,680	-34.5%	-40,003	-32.7%	-100,677	-35.3%	-16,257	-7,891	-8,366
2Q 2020	-68.5%	-90.8%	-58.8%	-317,235	-77.1%	-117,222	-96.4%	-200,013	-69.0%	-38,970	-24,855	-14,114
3Q 2020	-49.3%	-87.6%	-32.8%	-258,676	-59.3%	-120,561	-94.6%	-138,115	-44.7%	-34,739	-25,585	-9,154
4Q 2020	-37.4%	-85.8%	-16.2%	-199,382	-47.1%	-116,906	-93.6%	-82,476	-27.6%	-30,018	-24,994	-5,025
<b>Total 2020</b>	<b>-45.1%</b>	<b>-72.7%</b>	<b>-33.0%</b>	<b>-915,973</b>	<b>-54.5%</b>	<b>-394,692</b>	<b>-79.5%</b>	<b>-521,282</b>	<b>-44.1%</b>	<b>-119,983</b>	<b>-83,325</b>	<b>-36,658</b>
1Q 2021	-43.1% to -42.4%	-84.9% to -84.1%	-24.6% to -24.0%	-212,531 to -203,443	-52.1% to -49.9%	-113,064 to -110,957	-92.3% to -90.6%	-99,467 to -92,486	-34.9% to -32.4%	-30,569 to -29,532	-23,858 to -23,367	-6,711 to -6,165
2Q 2021	-38.7% to -31.4%	-74.5% to -60.7%	-23.0% to -18.5%	-199,236 to -154,417	-48.4% to -37.5%	-104,651 to -86,480	-86.0% to -71.1%	-94,585 to -67,937	-32.6% to -23.4%	-28,192 to -22,025	-21,907 to -17,791	-6,284 to -4,233
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-40.9% to -36.9%</b>	<b>-79.7% to -72.4%</b>	<b>-23.8% to -21.2%</b>	<b>-411,767 to -357,860</b>	<b>-50.2% to -43.7%</b>	<b>-217,715 to -197,437</b>	<b>-89.2% to -80.9%</b>	<b>-194,052 to -160,423</b>	<b>-33.7% to -27.9%</b>	<b>-58,760 to -51,557</b>	<b>-45,766 to -41,158</b>	<b>-12,995 to -10,398</b>





Seat Capacity (thousand) - Asia/Pacific International + Domestic																			
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019	Compared to Baseline	Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline			
	a	b	c	c-a	c/a-1	d	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1		
January	173,887	184,761	175,876	1,990	1.1%	-8,885	-4.8%	192,546	99,085	99,085	99,085	98,959	118,981	-74,927 to -74,801	-43.1% to -43.0%	-76,917 to -76,791	-43.7% to -43.7%	-93,587 to -93,461	-48.6% to -48.5%
February	160,779	172,412	111,041	-49,737	-30.9%	-61,371	-35.6%	177,025	92,553	92,553	92,294	90,753	119,623	-70,026 to -68,226	-43.6% to -42.4%	-20,289 to -18,489	-18.3% to -16.7%	-86,273 to -84,473	-48.7% to -47.7%
March	170,186	177,838	91,338	-78,848	-46.3%	-86,500	-48.6%	181,273	99,015	99,015	97,907	97,410	149,844	-72,776 to -71,171	-42.8% to -41.8%	6,072 to 7,677	6.6% to 8.4%	-83,864 to -82,258	-46.3% to -45.4%
April	167,437	171,006	40,368	-127,070	-75.9%	-130,638	-76.4%	175,130	102,875	97,500	99,865	97,929	124,330	-69,937 to -64,563	-41.8% to -38.6%	57,133 to 62,507	141.5% to 154.8%	-77,630 to -72,256	-44.3% to -41.3%
May	171,640	176,452	52,578	-119,062	-69.4%	-123,873	-70.2%	181,668	117,605	105,618	111,566	106,218	128,677	-66,023 to -54,035	-38.5% to -31.5%	53,039 to 65,027	100.9% to 123.7%	-76,050 to -64,063	-41.9% to -35.3%
June	169,062	172,795	66,910	-102,152	-60.4%	-105,885	-61.3%	177,572	128,309	112,163	119,837	108,485	126,082	-60,578 to -40,753	-35.8% to -24.1%	41,574 to 61,398	62.1% to 91.8%	-69,088 to -49,263	-38.9% to -27.7%
July	179,966	184,680	85,490	-94,476	-52.5%	-99,190	-53.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	179,709	185,192	92,170	-87,539	-48.7%	-93,022	-50.2%	-	-	-	-	-	-	-	-	-	-	-	-
September	170,896	175,627	91,244	-79,653	-46.6%	-84,384	-48.0%	-	-	-	-	-	-	-	-	-	-	-	-
October	176,402	182,262	107,481	-68,922	-39.1%	-74,781	-41.0%	-	-	-	-	-	-	-	-	-	-	-	-
November	169,922	176,029	105,951	-63,972	-37.6%	-70,079	-39.8%	-	-	-	-	-	-	-	-	-	-	-	-
December	176,471	183,713	113,870	-62,601	-35.5%	-69,843	-38.0%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	504,851	535,012	378,256	-126,595	-25.1%	-156,756	-29.3%	550,845	290,653	290,653	289,287	287,122	388,448	-217,729 to -214,198	-43.1% to -42.4%	-91,134 to -87,603	-24.1% to -23.2%	-263,723 to -260,192	-47.9% to -47.2%
2Q	508,140	520,253	159,856	-348,283	-68.5%	-360,397	-69.3%	534,370	348,789	315,281	331,268	312,631	379,089	-196,537 to -159,351	-38.7% to -31.4%	151,746 to 188,932	94.9% to 118.2%	-222,768 to -185,582	-41.7% to -34.7%
3Q	530,571	545,500	268,904	-261,668	-49.3%	-276,596	-50.7%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	522,796	542,005	327,302	-195,494	-37.4%	-214,703	-39.6%	-	-	-	-	-	-	-	-	-	-	-	-
Total	2,066,358	2,142,769	1,134,318	-932,040	-45.1%	-1,008,451	-47.1%	1,085,216	639,442	605,934	620,555	599,753	767,537	-414,267 to -373,549	-40.9% to -36.9%	60,612 to 101,330	11.3% to 18.8%	-486,492 to -445,774	-44.8% to -41.1%

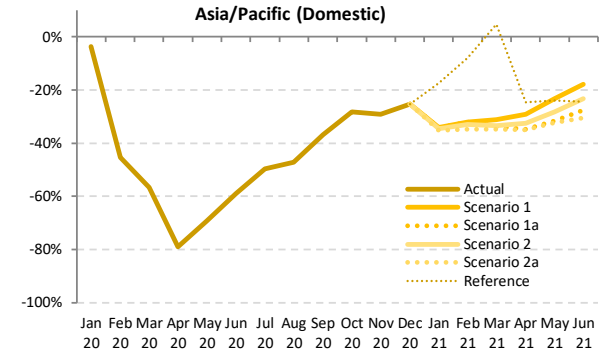
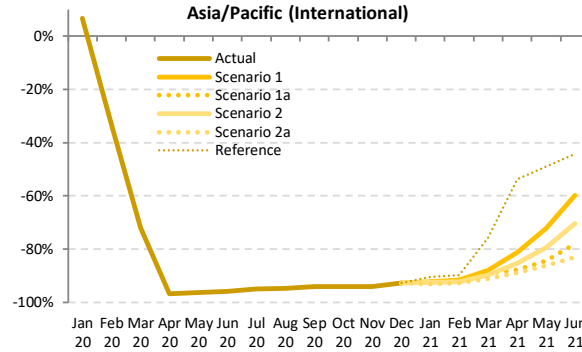
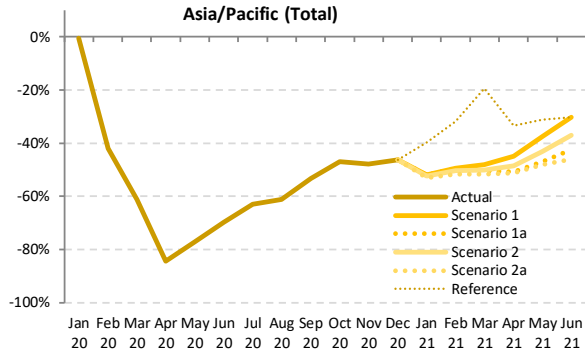


Seat Capacity (thousand) - Asia/Pacific International

Table with columns for Year (2019, 2020, 2021), Month, and various metrics including Actual, Baseline, Estimated, and Comparisons to 2019, Baseline, and 2020.

Seat Capacity (thousand) - Asia/Pacific Domestic

Table with columns for Year (2019, 2020, 2021), Month, and various metrics including Actual, Baseline, Estimated, and Comparisons to 2019, Baseline, and 2020.



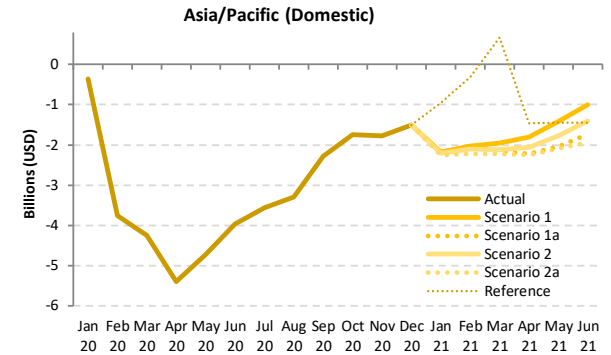
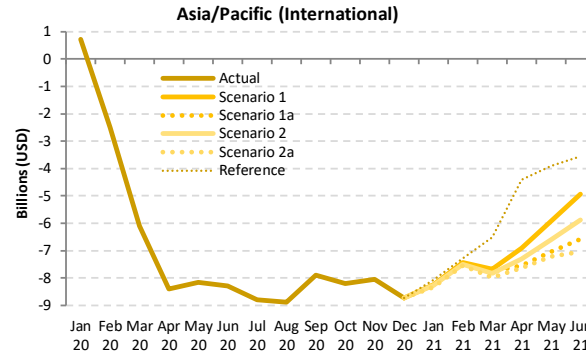
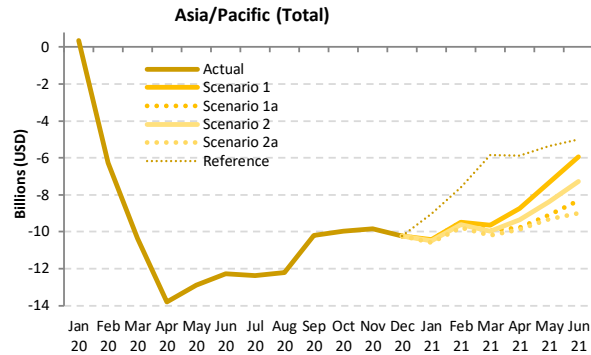
Passenger Number (thousand) - Asia/Pacific International + Domestic

Year	2019						2020						2021						
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	-	e-a	e/a-1	e-c
January	137,870	147,276	137,106	-764	-0.6%	-10,171	-6.9%	154,196	66,250	66,250	65,661	64,875	83,008	-72,995 to -71,620	-52.9% to -51.9%	-72,230 to -70,855	-52.7% to -51.7%	-89,321 to -87,946	-57.9% to -57.0%
February	131,703	141,935	76,476	-55,227	-41.9%	-65,459	-46.1%	146,423	66,498	66,498	65,352	63,518	89,676	-68,185 to -65,205	-51.8% to -49.5%	-12,958 to -9,978	-16.9% to -13.0%	-82,906 to -79,925	-56.6% to -54.6%
March	138,285	145,229	53,596	-84,689	-61.2%	-91,633	-63.1%	148,631	71,666	68,748	68,843	66,933	111,561	-71,351 to -66,619	-51.6% to -48.2%	13,338 to 18,070	24.9% to 33.7%	-81,697 to -76,965	-55.0% to -51.8%
April	136,254	139,805	21,365	-114,889	-84.3%	-118,440	-84.7%	143,719	75,199	67,195	70,266	66,428	90,789	-69,826 to -61,055	-51.2% to -44.8%	45,063 to 53,834	210.9% to 252.0%	-77,291 to -68,520	-53.8% to -47.7%
May	137,483	141,889	31,391	-106,093	-77.2%	-110,499	-77.9%	146,600	85,880	72,855	78,293	71,454	94,531	-66,029 to -51,604	-48.0% to -37.5%	40,064 to 54,489	127.6% to 173.6%	-75,146 to -60,721	-51.3% to -41.4%
June	137,863	141,528	41,611	-96,253	-69.8%	-99,917	-70.6%	145,982	96,105	79,295	86,736	74,483	96,198	-63,381 to -41,758	-46.0% to -30.3%	32,872 to 54,495	79.0% to 131.0%	-71,499 to -49,877	-49.0% to -34.2%
July	148,603	153,217	55,070	-93,533	-62.9%	-98,147	-64.1%	-	-	-	-	-	-	-	-	-	-	-	-
August	150,491	155,704	58,521	-91,969	-61.1%	-97,182	-62.4%	-	-	-	-	-	-	-	-	-	-	-	-
September	137,334	141,809	64,160	-73,174	-53.3%	-77,649	-54.8%	-	-	-	-	-	-	-	-	-	-	-	-
October	143,446	148,902	75,995	-67,451	-47.0%	-72,908	-49.0%	-	-	-	-	-	-	-	-	-	-	-	-
November	138,331	143,968	72,009	-66,322	-47.9%	-71,959	-50.0%	-	-	-	-	-	-	-	-	-	-	-	-
December	141,979	148,576	76,370	-65,609	-46.2%	-72,206	-48.6%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	407,857	434,441	267,178	-140,680	-34.5%	-167,263	-38.5%	449,250	204,414	201,496	199,856	195,326	284,245	-212,531 to -203,443	-52.1% to -49.9%	-71,851 to -62,763	-26.9% to -23.5%	-253,923 to -244,835	-56.5% to -54.5%
2Q	411,601	423,222	94,366	-317,235	-77.1%	-328,856	-77.7%	436,301	257,184	219,345	235,295	212,365	281,518	-199,236 to -154,417	-48.4% to -37.5%	117,999 to 162,818	125.0% to 172.5%	-223,936 to -179,117	-51.3% to -41.1%
3Q	436,428	450,729	177,752	-258,676	-59.3%	-272,978	-60.6%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	423,756	441,446	224,374	-199,382	-47.1%	-217,073	-49.2%	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,679,642	1,749,838	763,669	-915,973	-54.5%	-986,169	-56.4%	885,551	461,598	420,841	435,152	407,691	565,764	-411,767 to -357,860	-50.2% to -43.7%	46,147 to 100,055	12.8% to 27.7%	-477,860 to -423,952	-54.0% to -47.9%



Passenger Number (thousand) - Asia/Pacific International																			
Year	2019						2020						2021						
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e-a	e/a-1	e-c	e/a-1	e-d
January	42,372	45,737	45,192	2,820	6.7%	-546	-1.2%	48,117	3,276	3,276	3,143	2,927	4,065	-39,445 to -39,095	-93.1% to -92.3%	-42,265 to -41,915	-93.5% to -92.8%	-45,191 to -44,841	-93.9% to -92.3%
February	38,698	41,573	25,691	-13,007	-33.6%	-15,882	-38.2%	43,040	3,277	3,277	3,025	2,806	3,967	-35,892 to -35,420	-92.7% to -91.5%	-22,885 to -22,414	-89.1% to -87.2%	-40,234 to -39,763	-93.5% to -92.4%
March	41,378	43,296	11,563	-29,816	-72.1%	-31,734	-73.3%	44,909	4,937	4,514	4,261	3,651	10,009	-37,727 to -36,441	-91.2% to -88.1%	-7,912 to -6,625	-68.4% to -57.3%	-41,258 to -39,971	-91.9% to -89.0%
April	41,000	42,478	1,342	-39,658	-96.7%	-41,136	-96.8%	43,865	7,691	4,975	6,050	4,590	19,018	-36,410 to -33,310	-88.8% to -81.2%	3,248 to 6,349	242.0% to 473.1%	-39,275 to -36,174	-89.5% to -82.5%
May	39,963	41,839	1,457	-38,506	-96.4%	-40,382	-96.5%	43,476	11,142	6,208	8,194	5,476	20,376	-34,488 to -28,821	-86.3% to -72.1%	4,018 to 9,685	275.8% to 664.7%	-38,001 to -32,334	-87.4% to -74.4%
June	40,683	42,329	1,626	-39,057	-96.0%	-40,703	-96.2%	43,899	16,334	8,940	12,080	6,931	22,645	-33,752 to -24,349	-83.0% to -59.9%	5,305 to 14,708	326.2% to 904.4%	-36,968 to -27,565	-84.2% to -62.8%
July	43,780	45,477	2,218	-41,562	-94.9%	-43,259	-95.1%	-	-	-	-	-	-	-	-	-	-	-	-
August	44,296	46,589	2,331	-41,965	-94.7%	-44,258	-95.0%	-	-	-	-	-	-	-	-	-	-	-	-
September	39,365	40,698	2,331	-37,034	-94.1%	-38,367	-94.3%	-	-	-	-	-	-	-	-	-	-	-	-
October	40,850	43,162	2,440	-38,410	-94.0%	-40,723	-94.3%	-	-	-	-	-	-	-	-	-	-	-	-
November	40,110	42,716	2,391	-37,719	-94.0%	-40,325	-94.4%	-	-	-	-	-	-	-	-	-	-	-	-
December	43,992	46,898	3,216	-40,777	-92.7%	-43,683	-93.1%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	122,448	130,606	82,445	-40,003	-32.7%	-48,161	-36.9%	136,066	11,491	11,068	10,429	9,384	18,041	-113,064 to -110,957	-92.3% to -90.6%	-73,062 to -70,954	-88.6% to -86.1%	-126,683 to -124,575	-93.1% to -91.6%
2Q	121,647	126,647	4,425	-117,222	-96.4%	-122,221	-96.5%	131,240	35,167	20,123	26,325	16,997	62,039	-104,651 to -86,480	-86.0% to -71.1%	12,571 to 30,742	284.1% to 694.7%	-114,244 to -96,073	-87.0% to -73.2%
3Q	127,441	132,763	6,879	-120,561	-94.6%	-125,884	-94.8%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	124,952	132,776	8,046	-116,906	-93.6%	-124,730	-93.9%	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>496,488</b>	<b>522,792</b>	<b>101,796</b>	<b>-394,692</b>	<b>-79.5%</b>	<b>-420,996</b>	<b>-80.5%</b>	<b>267,306</b>	<b>46,658</b>	<b>31,190</b>	<b>36,754</b>	<b>26,380</b>	<b>80,080</b>	<b>-217,715 to -197,437</b>	<b>-89.2% to -80.9%</b>	<b>-60,490 to -40,213</b>	<b>-69.6% to -46.3%</b>	<b>-240,926 to -220,648</b>	<b>-90.1% to -82.5%</b>

Passenger Number (thousand) - Asia/Pacific Domestic																			
Year	2019						2020						2021						
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e-a	e/a-1	e-c	e/a-1	e-d
January	95,498	101,539	91,914	-3,584	-3.8%	-9,625	-9.5%	106,078	62,974	62,974	62,518	61,949	78,943	-33,550 to -32,524	-35.1% to -34.1%	-29,965 to -28,940	-32.6% to -31.5%	-44,130 to -43,105	-41.6% to -40.6%
February	93,005	100,363	50,785	-42,220	-45.4%	-49,577	-49.4%	103,383	63,221	63,221	62,327	60,712	85,709	-32,293 to -29,784	-34.7% to -32.0%	9,926 to 12,436	19.5% to 24.5%	-42,672 to -40,162	-41.3% to -38.8%
March	96,906	101,933	42,033	-54,873	-56.6%	-59,900	-58.8%	103,722	66,729	64,234	64,583	63,282	101,552	-33,624 to -30,178	-34.7% to -31.1%	21,249 to 24,696	50.6% to 58.8%	-40,439 to -36,993	-39.0% to -35.7%
April	95,254	97,326	20,023	-75,231	-79.0%	-77,303	-79.4%	99,854	67,509	62,220	64,216	61,838	71,771	-33,416 to -27,745	-35.1% to -29.1%	41,815 to 47,486	208.8% to 237.2%	-38,016 to -32,345	-38.1% to -32.4%
May	97,520	100,050	29,934	-67,586	-69.3%	-70,116	-70.1%	103,124	74,737	66,647	70,099	65,979	74,156	-31,541 to -22,783	-32.3% to -23.4%	36,045 to 44,804	120.4% to 149.7%	-37,145 to -28,387	-36.0% to -27.5%
June	97,180	99,199	39,984	-57,196	-58.9%	-59,215	-59.7%	102,083	79,771	70,355	74,656	67,552	73,553	-29,628 to -17,409	-30.5% to -17.9%	27,567 to 39,787	68.9% to 99.5%	-34,531 to -22,312	-33.8% to -21.9%
July	104,823	107,740	52,852	-51,971	-49.6%	-54,888	-50.9%	-	-	-	-	-	-	-	-	-	-	-	-
August	106,195	109,115	56,191	-50,004	-47.1%	-52,924	-48.5%	-	-	-	-	-	-	-	-	-	-	-	-
September	97,970	101,111	61,829	-36,140	-36.9%	-39,282	-38.8%	-	-	-	-	-	-	-	-	-	-	-	-
October	102,596	105,740	73,555	-29,041	-28.3%	-32,185	-30.4%	-	-	-	-	-	-	-	-	-	-	-	-
November	98,221	101,252	69,618	-28,603	-29.1%	-31,634	-31.2%	-	-	-	-	-	-	-	-	-	-	-	-
December	97,986	101,678	73,154	-24,832	-25.3%	-28,524	-28.1%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	285,410	303,835	184,732	-100,677	-35.3%	-119,102	-39.2%	313,184	192,924	190,429	189,428	185,943	266,204	-99,467 to -92,486	-34.9% to -32.4%	1,210 to 8,191	0.7% to 4.4%	-127,241 to -120,260	-40.6% to -38.4%
2Q	289,954	296,575	89,941	-200,013	-69.0%	-206,635	-69.7%	305,061	222,017	199,222	208,970	195,368	219,480	-94,585 to -67,937	-32.6% to -23.4%	105,427 to 132,076	117.2% to 146.8%	-109,693 to -83,044	-36.0% to -27.2%
3Q	308,988	317,966	170,872	-138,115	-44.7%	-147,094	-46.3%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	298,803	308,670	216,327	-82,476	-27.6%	-92,343	-29.9%	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,183,154</b>	<b>1,227,046</b>	<b>661,873</b>	<b>-521,282</b>	<b>-44.1%</b>	<b>-565,174</b>	<b>-46.1%</b>	<b>618,244</b>	<b>414,940</b>	<b>389,651</b>	<b>398,398</b>	<b>381,311</b>	<b>485,684</b>	<b>-194,052 to -160,423</b>	<b>-33.7% to -27.9%</b>	<b>106,638 to 140,267</b>	<b>38.8% to 51.1%</b>	<b>-236,933 to -203,304</b>	<b>-38.3% to -32.9%</b>



Passenger revenue (USD, million) - Asia/Pacific International + Domestic

Year	2019						2020						2021						
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	16,143	17,369	16,509	367	2.3%	-859	-4.9%	18,283	5,716	5,716	5,649	5,553	7,122	-10,589 to -10,427	-65.6% to -64.6%	-10,956 to -10,793	-66.4% to -65.4%	-12,730 to -12,567	-69.6% to -68.7%
February	15,204	16,436	8,944	-6,260	-41.2%	-7,493	-45.6%	17,010	5,734	5,734	5,605	5,429	7,611	-9,775 to -9,470	-64.3% to -62.3%	-3,515 to -3,209	-39.3% to -35.9%	-11,581 to -11,276	-68.1% to -66.3%
March	16,025	16,822	5,662	-10,363	-64.7%	-11,160	-66.3%	17,297	6,389	6,095	6,065	5,820	10,174	-10,205 to -9,635	-63.7% to -60.1%	158 to 727	2.8% to 12.8%	-11,477 to -10,907	-66.4% to -63.1%
April	15,803	16,216	1,991	-13,812	-87.4%	-14,225	-87.7%	16,714	7,074	6,041	6,442	5,919	9,915	-9,883 to -8,729	-62.5% to -55.2%	3,928 to 5,083	197.3% to 255.3%	-10,794 to -9,640	-64.6% to -57.7%
May	15,757	16,277	2,857	-12,900	-81.9%	-13,420	-82.4%	16,834	8,405	6,666	7,381	6,441	10,407	-9,316 to -7,352	-59.1% to -46.7%	3,584 to 5,548	125.5% to 194.2%	-10,394 to -8,429	-61.7% to -50.1%
June	15,883	16,321	3,625	-12,257	-77.2%	-12,696	-77.8%	16,885	9,939	7,566	8,600	6,891	10,866	-8,992 to -5,944	-56.6% to -37.4%	3,265 to 6,313	90.1% to 174.1%	-9,994 to -6,947	-59.2% to -41.1%
July	17,124	17,639	4,768	-12,356	-72.2%	-12,872	-73.0%	-	-	-	-	-	-	-	-	-	-	-	-
August	17,364	18,020	5,169	-12,195	-70.2%	-12,851	-71.3%	-	-	-	-	-	-	-	-	-	-	-	-
September	15,725	16,161	5,536	-10,189	-64.8%	-10,625	-65.7%	-	-	-	-	-	-	-	-	-	-	-	-
October	16,389	17,166	6,429	-9,960	-60.8%	-10,737	-62.5%	-	-	-	-	-	-	-	-	-	-	-	-
November	15,837	16,655	6,008	-9,829	-62.1%	-10,647	-63.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	16,698	17,660	6,468	-10,230	-61.3%	-11,191	-63.4%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	47,371	50,627	31,115	-16,257	-34.3%	-19,512	-38.5%	52,590	17,839	17,545	17,319	16,802	24,906	-30,569 to -29,532	-64.5% to -62.3%	-14,312 to -13,275	-46.0% to -42.7%	-35,787 to -34,751	-68.0% to -66.1%
2Q	47,442	48,814	8,473	-38,970	-82.1%	-40,341	-82.6%	50,433	25,418	20,272	22,423	19,251	31,189	-28,192 to -22,025	-59.4% to -46.4%	10,778 to 16,945	127.2% to 200.0%	-31,183 to -25,016	-61.8% to -49.6%
3Q	50,212	51,821	15,473	-34,739	-69.2%	-36,348	-70.1%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	48,924	51,481	18,906	-30,018	-61.4%	-32,576	-63.3%	-	-	-	-	-	-	-	-	-	-	-	-
Total	193,949	202,743	73,966	-119,983	-61.9%	-128,777	-63.5%	103,023	43,257	37,817	39,742	36,053	56,095	-58,760 to -51,557	-62.0% to -54.4%	-3,534 to 3,670	-8.9% to 9.3%	-66,970 to -59,766	-65.0% to -58.0%

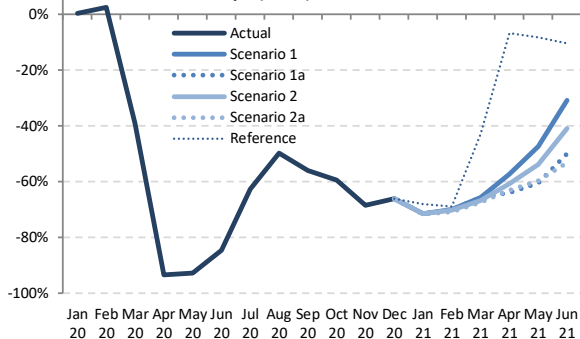
Passenger revenue (USD, million) - Asia/Pacific International																			
Year	2019			2020					2021										
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	9,018	9,778	9,744	726	8.0%	-34	-0.3%	10,303	769	769	738	687	952	-8,331 to -8,250	-92.4% to -91.5%	-9,057 to -8,975	-92.9% to -92.1%	-9,616 to -9,534	-93.3% to -92.5%
February	8,209	8,877	5,701	-2,508	-30.6%	-3,176	-35.8%	9,185	769	769	710	658	929	-7,551 to -7,441	-92.0% to -90.6%	-5,043 to -4,932	-88.5% to -86.5%	-8,527 to -8,416	-92.8% to -91.6%
March	8,830	9,243	2,721	-6,109	-69.2%	-6,522	-70.6%	9,545	1,153	1,054	996	854	2,303	-7,976 to -7,677	-90.3% to -86.9%	-1,867 to -1,568	-68.6% to -57.6%	-8,691 to -8,392	-91.1% to -87.9%
April	8,704	8,993	298	-8,405	-96.6%	-8,695	-96.7%	9,301	1,783	1,160	1,407	1,070	4,284	-7,634 to -6,921	-87.7% to -79.5%	772 to 1,235	258.9% to 498.3%	-8,232 to -7,518	-88.5% to -80.8%
May	8,493	8,864	326	-8,167	-96.2%	-8,538	-96.3%	9,196	2,561	1,442	1,894	1,271	4,585	-7,221 to -5,932	-85.0% to -69.8%	946 to 2,235	290.3% to 686.0%	-7,924 to -6,635	-86.2% to -72.2%
June	8,656	8,976	373	-8,283	-95.7%	-8,603	-95.8%	9,319	3,717	2,063	2,770	1,604	5,089	-7,052 to -4,939	-81.5% to -57.1%	1,231 to 3,344	330.1% to 896.8%	-7,715 to -5,602	-82.8% to -60.1%
July	9,302	9,644	510	-8,792	-94.5%	-9,134	-94.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	9,441	9,923	550	-8,891	-94.2%	-9,372	-94.5%	-	-	-	-	-	-	-	-	-	-	-	-
September	8,448	8,696	546	-7,902	-93.5%	-8,150	-93.7%	-	-	-	-	-	-	-	-	-	-	-	-
October	8,781	9,295	570	-8,211	-93.5%	-8,725	-93.9%	-	-	-	-	-	-	-	-	-	-	-	-
November	8,618	9,206	561	-8,057	-93.5%	-8,645	-93.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	9,479	10,152	754	-8,725	-92.0%	-9,398	-92.6%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	26,058	27,897	18,167	-7,891	-30.3%	-9,731	-34.9%	29,033	2,691	2,592	2,443	2,200	4,184	-23,858 to -23,367	-91.6% to -89.7%	-15,967 to -15,476	-87.9% to -85.2%	-26,833 to -26,342	-92.4% to -90.7%
2Q	25,852	26,832	997	-24,855	-96.1%	-25,836	-96.3%	27,816	8,061	4,665	6,070	3,945	13,958	-21,907 to -17,791	-84.7% to -68.8%	2,948 to 7,064	295.8% to 708.7%	-23,871 to -19,755	-85.8% to -71.0%
3Q	27,191	28,263	1,606	-25,585	-94.1%	-26,657	-94.3%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	26,878	28,652	1,885	-24,994	-93.0%	-26,767	-93.4%	-	-	-	-	-	-	-	-	-	-	-	-
Total	105,979	111,645	22,654	-83,325	-78.6%	-88,991	-79.7%	56,849	10,752	7,257	8,514	6,144	18,142	-45,766 to -41,158	-88.2% to -79.3%	-13,019 to -8,412	-67.9% to -43.9%	-50,704 to -46,097	-89.2% to -81.1%

Passenger revenue (USD, million) - Asia/Pacific Domestic																			
Year	2019			2020					2021										
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	7,124	7,591	6,765	-359	-5.0%	-826	-10.9%	7,980	4,947	4,947	4,911	4,866	6,170	-2,258 to -2,177	-31.7% to -30.6%	-1,898 to -1,818	-28.1% to -26.9%	-3,114 to -3,033	-39.0% to -38.0%
February	6,995	7,560	3,242	-3,752	-53.6%	-4,317	-57.1%	7,825	4,965	4,965	4,895	4,771	6,682	-2,224 to -2,029	-31.8% to -29.0%	1,528 to 1,723	47.1% to 53.1%	-3,054 to -2,860	-39.0% to -36.5%
March	7,195	7,579	2,941	-4,254	-59.1%	-4,638	-61.2%	7,752	5,236	5,040	5,068	4,966	7,871	-2,229 to -1,959	-31.0% to -27.2%	2,025 to 2,295	68.9% to 78.1%	-2,786 to -2,516	-35.9% to -32.5%
April	7,099	7,223	1,693	-5,406	-76.2%	-5,530	-76.6%	7,412	5,291	4,881	5,035	4,850	5,632	-2,249 to -1,808	-31.7% to -25.5%	3,157 to 3,598	186.5% to 212.5%	-2,563 to -2,121	-34.6% to -28.6%
May	7,264	7,413	2,531	-4,733	-65.2%	-4,882	-65.9%	7,639	5,844	5,224	5,487	5,169	5,822	-2,095 to -1,420	-28.8% to -19.5%	2,638 to 3,314	104.3% to 130.9%	-2,470 to -1,794	-32.3% to -23.5%
June	7,227	7,345	3,252	-3,974	-55.0%	-4,093	-55.7%	7,566	6,221	5,503	5,830	5,287	5,777	-1,940 to -1,005	-26.8% to -13.9%	2,035 to 2,969	62.6% to 91.3%	-2,279 to -1,345	-30.1% to -17.8%
July	7,822	7,995	4,258	-3,564	-45.6%	-3,737	-46.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	7,922	8,098	4,619	-3,303	-41.7%	-3,479	-43.0%	-	-	-	-	-	-	-	-	-	-	-	-
September	7,277	7,465	4,990	-2,287	-31.4%	-2,475	-33.2%	-	-	-	-	-	-	-	-	-	-	-	-
October	7,608	7,872	5,859	-1,748	-23.0%	-2,013	-25.6%	-	-	-	-	-	-	-	-	-	-	-	-
November	7,219	7,450	5,447	-1,772	-24.5%	-2,002	-26.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	7,219	7,508	5,714	-1,504	-20.8%	-1,793	-23.9%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	21,313	22,730	12,948	-8,366	-39.3%	-9,782	-43.0%	23,557	15,148	14,953	14,875	14,603	20,723	-6,711 to -6,165	-31.5% to -28.9%	1,655 to 2,200	12.8% to 17.0%	-8,954 to -8,409	-38.0% to -35.7%
2Q	21,590	21,981	7,476	-14,114	-65.4%	-14,505	-66.0%	22,618	17,357	15,607	16,353	15,906	17,231	-6,284 to -4,233	-29.1% to -19.6%	7,830 to 9,881	104.7% to 132.2%	-7,312 to -5,261	-32.3% to -23.3%
3Q	23,021	23,558	13,867	-9,154	-39.8%	-9,691	-41.1%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	22,045	22,829	17,021	-5,025	-22.8%	-5,808	-25.4%	-	-	-	-	-	-	-	-	-	-	-	-
Total	87,970	91,098	51,312	-36,658	-41.7%	-39,786	-43.7%	46,175	32,505	30,560	31,228	29,909	37,953	-12,995 to -10,398	-30.3% to -24.2%	9,485 to 12,081	46.4% to 59.2%	-16,266 to -13,669	-35.2% to -29.6%

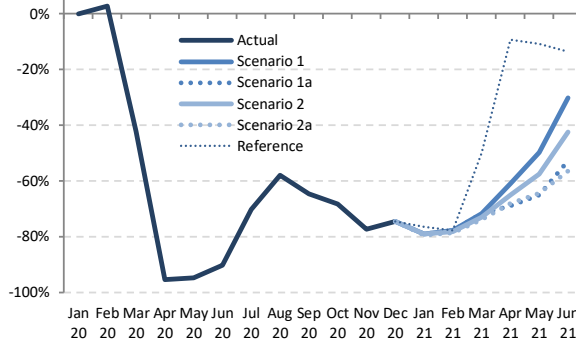
# Europe

Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-12.8%	-14.0%	-10.2%	-41,010	-17.5%	-30,007	-18.1%	-11,002	-16.0%	-5,254	-4,350	-905
2Q 2020	-90.1%	-93.3%	-80.9%	-291,112	-94.2%	-223,363	-96.8%	-67,749	-86.4%	-36,388	-30,818	-5,570
3Q 2020	-56.1%	-64.2%	-30.8%	-237,499	-67.8%	-208,114	-78.3%	-29,385	-34.7%	-32,074	-29,658	-2,416
4Q 2020	-64.3%	-72.8%	-41.9%	-200,664	-75.6%	-163,507	-84.7%	-37,157	-51.3%	-26,464	-23,410	-3,055
<b>Total 2020</b>	<b>-57.9%</b>	<b>-63.9%</b>	<b>-41.4%</b>	<b>-770,285</b>	<b>-66.4%</b>	<b>-624,991</b>	<b>-73.1%</b>	<b>-145,293</b>	<b>-47.8%</b>	<b>-100,181</b>	<b>-88,236</b>	<b>-11,945</b>
1Q 2021	-69.9% to -69.0%	-77.2% to -76.1%	-52.9% to -52.4%	-185,374 to -180,358	-79.1% to -76.9%	-143,519 to -139,764	-86.5% to -84.3%	-41,855 to -40,594	-61.0% to -59.2%	-24,333 to -23,663	-20,892 to -20,326	-3,441 to -3,337
2Q 2021	-58.9% to -44.5%	-63.2% to -46.1%	-46.7% to -39.9%	-218,962 to -167,951	-70.8% to -54.3%	-176,196 to -133,051	-76.4% to -57.7%	-42,767 to -34,900	-54.5% to -44.5%	-27,228 to -20,300	-23,712 to -17,431	-3,516 to -2,869
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-63.8% to -55.4%</b>	<b>-69.2% to -58.9%</b>	<b>-49.6% to -45.9%</b>	<b>-404,337 to -348,309</b>	<b>-74.4% to -64.1%</b>	<b>-319,715 to -272,815</b>	<b>-80.6% to -68.8%</b>	<b>-84,622 to -75,494</b>	<b>-57.6% to -51.4%</b>	<b>-51,561 to -43,963</b>	<b>-44,604 to -37,757</b>	<b>-6,957 to -6,207</b>

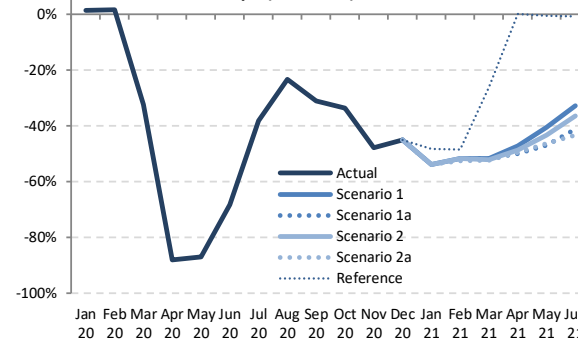
### Europe (Total)



### Europe (International)



### Europe (Domestic)

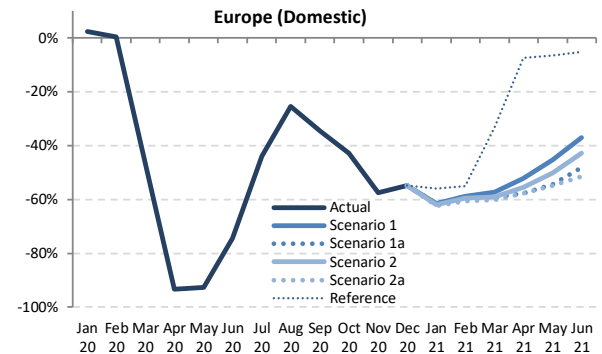
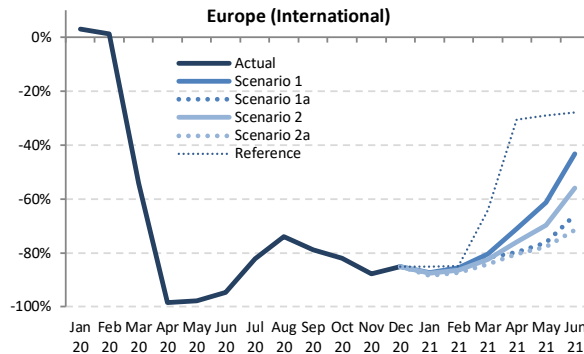
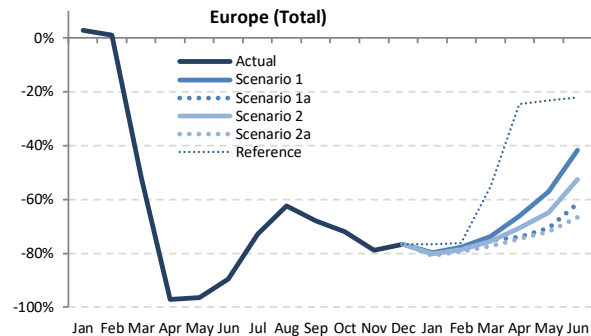


### Seat Capacity (thousand) - Europe International + Domestic

Year	2019						2020						2021					
	Actual	Baseline	Estimated	Compared to 2019	Compared to Baseline	Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019	Compared to 2020	Compared to Baseline				
Month	a	b	c	c-a	c/a-1	d	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1	
January	99,253	99,375	99,726	473	0.5%	100,036	28,282	28,282	28,282	28,038	31,729	-71,215 to -70,971	-71.8% to -71.5%	-71,688 to -71,444	-71.9% to -71.6%	-71,998 to -71,754	-72.0% to -71.7%	
February	91,124	94,787	93,460	2,336	2.6%	97,338	27,370	27,370	27,127	26,674	28,364	-64,450 to -63,754	-70.7% to -70.0%	-66,786 to -66,090	-71.5% to -70.7%	-70,664 to -69,968	-72.6% to -71.9%	
March	103,536	106,115	62,972	-40,564	-39.2%	107,071	35,455	35,455	34,379	33,723	59,199	-69,813 to -68,080	-67.4% to -65.8%	-29,249 to -27,516	-46.4% to -43.7%	-73,348 to -71,616	-68.5% to -66.9%	
April	114,022	116,283	7,473	-106,550	-93.4%	119,174	48,750	41,156	44,913	42,108	106,366	-72,866 to -65,273	-63.9% to -57.2%	33,684 to 41,277	450.8% to 552.4%	-78,018 to -70,425	-65.5% to -59.1%	
May	125,466	125,962	9,002	-116,464	-92.8%	127,206	66,032	49,636	57,891	50,618	115,264	-75,830 to -59,434	-60.4% to -47.4%	40,634 to 57,030	451.4% to 633.5%	-77,570 to -61,174	-61.0% to -48.1%	
June	131,250	134,506	20,086	-111,164	-84.7%	139,176	90,872	65,800	77,605	61,440	117,750	-69,811 to -40,378	-53.2% to -30.8%	41,354 to 70,786	205.9% to 352.4%	-77,736 to -48,304	-55.9% to -34.7%	
July	138,193	141,020	51,734	-86,459	-62.6%	-	-	-	-	-	-	-	-	-	-	-	-	
August	138,574	140,740	69,746	-68,828	-49.7%	-	-	-	-	-	-	-	-	-	-	-	-	
September	131,857	133,819	57,919	-73,938	-56.1%	-	-	-	-	-	-	-	-	-	-	-	-	
October	124,268	123,908	50,535	-73,733	-59.3%	-	-	-	-	-	-	-	-	-	-	-	-	
November	99,741	99,324	31,359	-68,383	-68.6%	-	-	-	-	-	-	-	-	-	-	-	-	
December	100,677	102,476	34,178	-66,499	-66.1%	-	-	-	-	-	-	-	-	-	-	-	-	
1Q	293,912	300,277	256,158	-37,755	-12.8%	304,445	91,107	91,107	89,788	88,435	119,292	-205,477 to -202,806	-69.9% to -69.0%	-167,722 to -165,051	-65.5% to -64.4%	-216,009 to -213,338	-71.0% to -70.1%	
2Q	370,739	376,751	36,561	-334,178	-90.1%	385,556	205,654	156,592	180,409	154,165	339,380	-218,507 to -165,085	-58.9% to -44.5%	115,672 to 169,093	316.4% to 462.5%	-233,324 to -179,902	-60.5% to -46.7%	
3Q	408,624	415,579	179,399	-229,225	-56.1%	-	-	-	-	-	-	-	-	-	-	-	-	
4Q	324,686	325,708	116,072	-208,614	-64.3%	-	-	-	-	-	-	-	-	-	-	-	-	
Total	1,397,961	1,418,315	588,189	-809,772	-57.9%	690,001	296,761	247,699	270,197	242,600	458,672	-423,984 to -367,890	-63.8% to -55.4%	-52,051 to 4,043	-17.8% to 1.4%	-449,334 to -393,240	-65.1% to -57.0%	



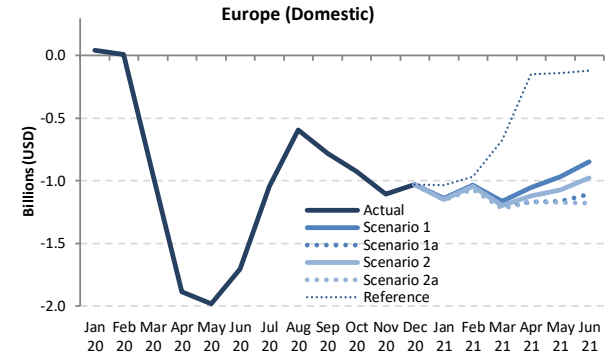
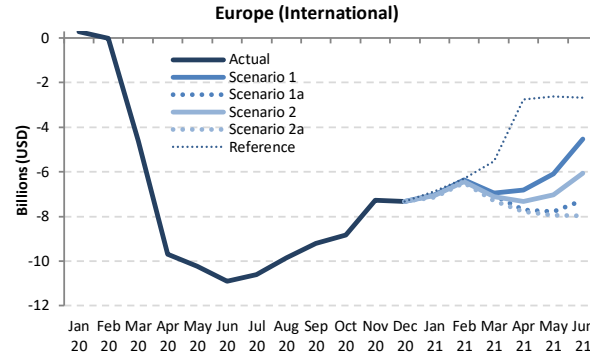
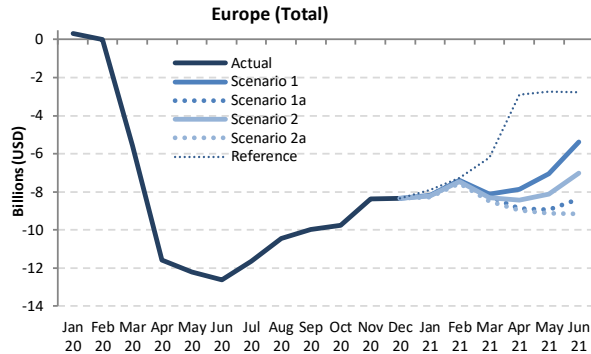




Passenger Number (thousand) - Europe International + Domestic

Year	2019						2020						2021						
	Actual	Baseline	Estimated	Compared to 2019	Compared to Baseline	Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019	Compared to 2020	Compared to Baseline					
Month	a	b	c	c-a	c/a-1	d	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1		
January	77,394	78,007	79,594	2,200	2.8%	1,588	2.0%	78,168	15,635	15,635	15,341	14,865	18,080	-62,530 to -61,760	-80.8% to -79.8%	-64,730 to -63,960	-81.3% to -80.4%	-63,304 to -62,534	-81.0% to -80.0%
February	72,562	76,002	73,286	723	1.0%	-2,716	-3.6%	77,678	16,203	16,203	15,576	14,935	17,340	-57,627 to -56,359	-79.4% to -77.7%	-58,351 to -57,083	-79.6% to -77.9%	-62,743 to -61,475	-80.8% to -79.1%
March	84,453	87,164	40,520	-43,933	-52.0%	-46,644	-53.5%	87,532	22,215	21,003	20,599	19,236	37,857	-65,217 to -62,239	-77.2% to -73.7%	-21,285 to -18,306	-52.5% to -45.2%	-68,296 to -65,317	-78.0% to -74.6%
April	94,970	97,514	2,690	-92,279	-97.2%	-94,824	-97.2%	99,440	32,148	24,711	27,888	24,139	71,547	-70,831 to -62,822	-74.6% to -66.1%	21,449 to 29,458	797.2% to 1094.9%	-75,301 to -67,292	-75.7% to -67.7%
May	102,335	103,396	3,673	-98,662	-96.4%	-99,723	-96.4%	103,841	43,861	29,951	36,078	28,667	78,443	-73,668 to -58,474	-72.0% to -57.1%	24,994 to 40,188	680.5% to 1094.2%	-75,174 to -59,980	-72.4% to -57.8%
June	111,802	115,361	11,631	-100,170	-89.6%	-103,729	-89.9%	118,715	65,146	42,973	52,945	37,338	86,973	-74,464 to -46,656	-66.6% to -41.7%	25,707 to 53,515	221.0% to 460.1%	-81,377 to -53,569	-68.5% to -45.1%
July	119,918	123,184	32,431	-87,487	-73.0%	-90,754	-73.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	120,268	122,977	45,132	-75,135	-62.5%	-77,844	-63.3%	-	-	-	-	-	-	-	-	-	-	-	-
September	110,196	112,612	35,319	-74,877	-67.9%	-77,292	-68.6%	-	-	-	-	-	-	-	-	-	-	-	-
October	103,161	103,539	28,807	-74,354	-72.1%	-74,731	-72.2%	-	-	-	-	-	-	-	-	-	-	-	-
November	80,792	80,978	17,049	-63,743	-78.9%	-63,929	-78.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	81,567	83,605	18,999	-62,568	-76.7%	-64,606	-77.3%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	234,410	241,172	193,401	-41,010	-17.5%	-47,772	-19.8%	243,378	54,052	52,841	51,516	49,036	73,277	-185,374 to -180,358	-79.1% to -76.9%	-144,365 to -139,348	-74.6% to -72.1%	-194,342 to -189,326	-79.9% to -77.8%
2Q	309,106	316,271	17,995	-291,112	-94.2%	-298,276	-94.3%	321,996	141,155	97,635	116,911	90,144	236,963	-218,962 to -167,951	-70.8% to -54.3%	72,149 to 123,160	400.9% to 684.4%	-231,852 to -180,841	-72.0% to -56.2%
3Q	350,382	358,773	112,883	-237,499	-67.8%	-245,890	-68.5%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	265,520	268,123	64,856	-200,664	-75.6%	-203,267	-75.8%	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,159,418	1,184,338	389,134	-770,285	-66.4%	-795,205	-67.1%	565,374	195,207	150,475	168,427	139,180	310,240	-404,337 to -348,309	-74.4% to -64.1%	-72,216 to -16,188	-34.2% to -7.7%	-426,194 to -370,166	-75.4% to -65.5%





Passenger revenue (USD, million) - Europe International + Domestic

Year	2019										2020										2021									
	Actual		Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline											
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	f	g	h	i	j	k	l	m	n	o	p										
January	9,945	10,029	10,260	315	3.2%	231	2.3%	10,053	1,770	1,770	1,731	1,665	2,052	-8,279 to -8,175	-83.3% to -82.2%	-8,595 to -8,490	-83.8% to -82.8%	-8,388 to -8,284	-83.4% to -82.4%											
February	9,229	9,670	9,225	-4	0.0%	-445	-4.6%	9,821	1,845	1,845	1,760	1,680	1,962	-7,550 to -7,385	-81.8% to -80.0%	-7,546 to -7,381	-81.8% to -80.0%	-8,141 to -7,976	-82.9% to -81.2%											
March	10,734	11,005	5,169	-5,565	-51.8%	-5,836	-53.0%	11,035	2,631	2,479	2,418	2,230	4,547	-8,504 to -8,103	-79.2% to -75.5%	-2,938 to -2,538	-56.8% to -49.1%	-8,805 to -8,404	-79.8% to -76.2%											
April	11,885	12,215	314	-11,570	-97.4%	-11,901	-97.4%	12,511	4,023	3,012	3,445	2,925	8,982	-8,959 to -7,861	-75.4% to -66.1%	2,611 to 3,709	830.4% to 1179.6%	-9,586 to -8,488	-76.6% to -67.8%											
May	12,629	12,839	427	-12,203	-96.6%	-12,412	-96.7%	12,986	5,571	3,692	4,517	3,502	9,879	-9,127 to -7,058	-72.3% to -55.9%	3,075 to 5,144	721.1% to 1206.2%	-9,484 to -7,415	-73.0% to -57.1%											
June	13,810	14,251	1,195	-12,615	-91.4%	-13,057	-91.6%	14,714	8,429	5,438	6,783	4,668	11,031	-9,142 to -5,381	-66.2% to -39.0%	3,474 to 7,235	290.8% to 605.7%	-10,046 to -6,284	-68.3% to -42.7%											
July	14,914	15,360	3,268	-11,645	-78.1%	-12,092	-78.7%	-	-	-	-	-	-	-	-	-	-	-	-											
August	15,004	15,380	4,564	-10,440	-69.6%	-10,816	-70.3%	-	-	-	-	-	-	-	-	-	-	-	-											
September	13,601	13,929	3,612	-9,989	-73.4%	-10,317	-74.1%	-	-	-	-	-	-	-	-	-	-	-	-											
October	12,796	12,889	3,040	-9,756	-76.2%	-9,849	-76.4%	-	-	-	-	-	-	-	-	-	-	-	-											
November	10,261	10,317	1,892	-8,369	-81.6%	-8,425	-81.7%	-	-	-	-	-	-	-	-	-	-	-	-											
December	10,503	10,774	2,163	-8,340	-79.4%	-8,611	-79.9%	-	-	-	-	-	-	-	-	-	-	-	-											
1Q	29,909	30,705	24,654	-5,254	-17.6%	-6,050	-19.7%	30,909	6,245	6,094	5,908	5,576	8,560	-24,333 to -23,663	-81.4% to -79.1%	-19,079 to -18,409	-77.4% to -74.7%	-25,334 to -24,664	-82.0% to -79.8%											
2Q	38,324	39,305	1,935	-36,388	-94.9%	-37,370	-95.1%	40,211	18,024	12,142	14,745	11,096	29,892	-27,228 to -20,300	-71.0% to -53.0%	9,160 to 16,088	473.3% to 831.2%	-29,115 to -22,187	-72.4% to -55.2%											
3Q	43,518	44,668	11,444	-32,074	-73.7%	-33,224	-74.4%	-	-	-	-	-	-	-	-	-	-	-	-											
4Q	33,559	33,980	7,094	-26,464	-78.9%	-26,885	-79.1%	-	-	-	-	-	-	-	-	-	-	-	-											
Total	145,309	148,658	45,128	-100,181	-68.9%	-103,530	-69.6%	71,120	24,269	18,235	20,653	16,671	38,452	-51,561 to -43,963	-75.6% to -64.4%	-9,919 to -2,321	-37.3% to -8.7%	-54,449 to -46,851	-76.6% to -65.9%											



Passenger revenue (USD, million) - Europe International

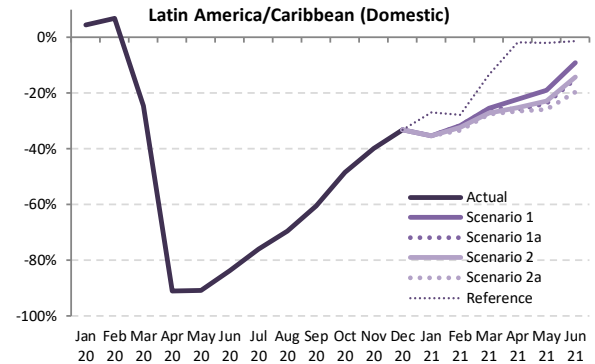
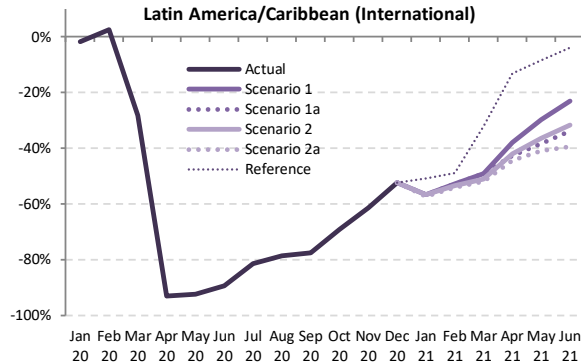
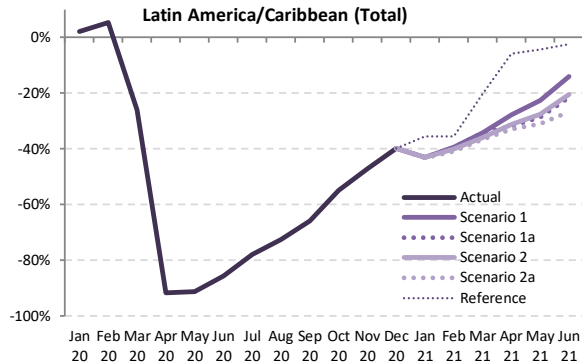
Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	8,094	8,199	8,366	272	3.4%	167	2.0%	8,240	1,059	1,059	1,026	969	1,237	-7,125 to -7,035	-88.0% to -86.9%	-7,397 to -7,307	-88.4% to -87.3%	-7,270 to -7,181	-88.2% to -87.1%
February	7,471	7,913	7,460	-11	-0.1%	-453	-5.7%	8,019	1,121	1,121	1,047	987	1,171	-6,484 to -6,351	-86.8% to -85.0%	-6,473 to -6,340	-86.8% to -85.0%	-7,032 to -6,899	-87.7% to -86.0%
March	8,707	9,004	4,096	-4,611	-53.0%	-4,908	-54.5%	9,057	1,766	1,652	1,588	1,423	3,195	-7,283 to -6,940	-83.7% to -79.7%	-2,673 to -2,329	-65.3% to -56.9%	-7,634 to -7,290	-84.3% to -80.5%
April	9,864	10,192	180	-9,684	-98.2%	-10,012	-98.2%	10,501	3,058	2,157	2,545	2,073	7,112	-7,791 to -6,806	-79.0% to -69.0%	1,893 to 2,878	1052.6% to 1600.4%	-8,428 to -7,443	-80.3% to -70.9%
May	10,490	10,702	268	-10,224	-97.4%	-10,434	-97.5%	10,842	4,400	2,717	3,452	2,535	7,878	-7,955 to -6,090	-75.8% to -58.1%	2,267 to 4,132	846.9% to 1543.9%	-8,308 to -6,442	-76.6% to -59.4%
June	11,524	11,967	612	-10,912	-94.7%	-11,356	-94.9%	12,424	6,989	4,256	5,474	3,558	8,863	-7,966 to -4,535	-69.1% to -39.4%	2,946 to 6,377	481.5% to 1042.1%	-8,866 to -5,435	-71.4% to -43.7%
July	12,542	12,991	1,940	-10,602	-84.5%	-11,051	-85.1%	-	-	-	-	-	-	-	-	-	-	-	-
August	12,666	13,045	2,821	-9,846	-77.7%	-10,224	-78.4%	-	-	-	-	-	-	-	-	-	-	-	-
September	11,354	11,685	2,144	-9,210	-81.1%	-9,541	-81.7%	-	-	-	-	-	-	-	-	-	-	-	-
October	10,641	10,758	1,807	-8,834	-83.0%	-8,951	-83.2%	-	-	-	-	-	-	-	-	-	-	-	-
November	8,338	8,415	1,073	-7,265	-87.1%	-7,343	-87.3%	-	-	-	-	-	-	-	-	-	-	-	-
December	8,626	8,928	1,315	-7,311	-84.8%	-7,613	-85.3%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	24,272	25,116	19,922	-4,350	-17.9%	-5,194	-20.7%	25,316	3,946	3,832	3,662	3,380	5,603	-20,892 to -20,326	-86.1% to -83.7%	-16,542 to -15,976	-83.0% to -80.2%	-21,936 to -21,370	-86.6% to -84.4%
2Q	31,878	32,861	1,059	-30,818	-96.7%	-31,802	-96.8%	33,767	14,447	9,131	11,471	8,166	23,854	-23,712 to -17,431	-74.4% to -54.7%	7,106 to 13,388	670.8% to 1263.7%	-25,602 to -19,320	-75.8% to -57.2%
3Q	36,562	37,721	6,904	-29,658	-81.1%	-30,816	-81.7%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	27,604	28,101	4,195	-23,410	-84.8%	-23,907	-85.1%	-	-	-	-	-	-	-	-	-	-	-	-
Total	120,316	123,799	32,080	-88,236	-73.3%	-91,719	-74.1%	59,083	18,393	12,962	15,132	11,546	29,457	-44,604 to -37,757	-79.4% to -67.2%	-9,436 to -2,589	-45.0% to -12.3%	-47,537 to -40,690	-80.5% to -68.9%

Passenger revenue (USD, million) - Europe Domestic

Year	2019					2020					2021								
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	1,851	1,830	1,894	43	2.3%	64	3.5%	1,814	711	711	704	696	815	-1,155 to -1,140	-62.4% to -61.6%	-1,198 to -1,183	-63.2% to -62.5%	-1,117 to -1,103	-61.6% to -60.8%
February	1,758	1,757	1,765	7	0.4%	8	0.4%	1,802	724	724	713	692	790	-1,066 to -1,034	-60.6% to -58.8%	-1,073 to -1,041	-60.8% to -59.0%	-1,109 to -1,077	-61.6% to -59.8%
March	2,028	2,001	1,073	-955	-47.1%	-928	-46.4%	1,979	864	827	829	807	1,352	-1,220 to -1,163	-60.2% to -57.4%	-266 to -209	-24.8% to -19.4%	-1,171 to -1,114	-59.2% to -56.3%
April	2,020	2,023	135	-1,886	-93.3%	-1,889	-93.3%	2,011	966	855	900	852	1,870	-1,168 to -1,055	-57.8% to -52.2%	718 to 831	533.4% to 617.4%	-1,158 to -1,045	-57.6% to -52.0%
May	2,140	2,137	159	-1,981	-92.6%	-1,978	-92.6%	2,143	1,171	974	1,065	967	2,000	-1,172 to -969	-54.8% to -45.3%	809 to 1,012	509.0% to 637.1%	-1,176 to -972	-54.9% to -45.4%
June	2,286	2,284	583	-1,704	-74.5%	-1,701	-74.5%	2,290	1,440	1,183	1,309	1,110	2,168	-1,176 to -846	-51.4% to -37.0%	528 to 858	90.6% to 147.2%	-1,179 to -849	-51.5% to -37.1%
July	2,372	2,369	1,329	-1,043	-44.0%	-1,041	-43.9%	-	-	-	-	-	-	-	-	-	-	-	-
August	2,337	2,335	1,744	-594	-25.4%	-591	-25.3%	-	-	-	-	-	-	-	-	-	-	-	-
September	2,246	2,244	1,468	-779	-34.7%	-776	-34.6%	-	-	-	-	-	-	-	-	-	-	-	-
October	2,155	2,131	1,233	-922	-42.8%	-898	-42.1%	-	-	-	-	-	-	-	-	-	-	-	-
November	1,923	1,902	819	-1,104	-57.4%	-1,082	-56.9%	-	-	-	-	-	-	-	-	-	-	-	-
December	1,877	1,846	848	-1,029	-54.8%	-998	-54.1%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	5,637	5,589	4,732	-905	-16.0%	-857	-15.3%	5,594	2,299	2,262	2,246	2,196	2,957	-3,441 to -3,337	-61.0% to -59.2%	-2,537 to -2,433	-53.6% to -51.4%	-3,398 to -3,294	-60.7% to -58.9%
2Q	6,446	6,444	876	-5,570	-86.4%	-5,568	-86.4%	6,443	3,577	3,011	3,274	2,930	6,038	-3,516 to -2,869	-54.5% to -44.5%	2,054 to 2,701	234.5% to 308.3%	-3,514 to -2,867	-54.5% to -44.5%
3Q	6,956	6,948	4,540	-2,416	-34.7%	-2,408	-34.7%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	5,955	5,878	2,900	-3,055	-51.3%	-2,979	-50.7%	-	-	-	-	-	-	-	-	-	-	-	-
Total	24,993	24,859	13,048	-11,945	-47.8%	-11,811	-47.5%	12,037	5,876	5,273	5,520	5,126	8,995	-6,957 to -6,207	-57.6% to -51.4%	-483 to 268	-8.6% to 4.8%	-6,911 to -6,161	-57.4% to -51.2%

## Latin America/Caribbean

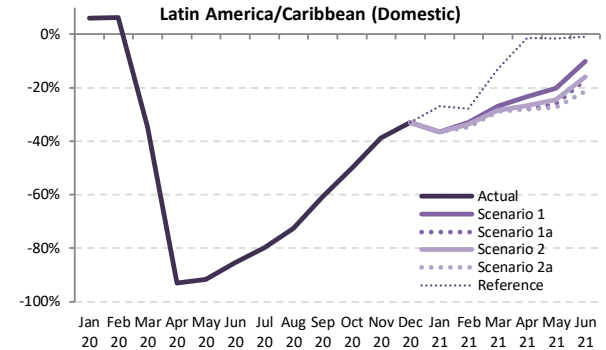
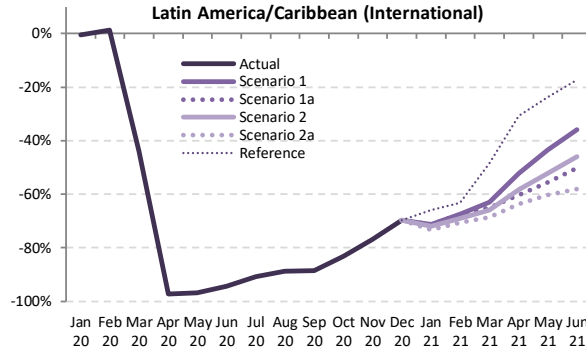
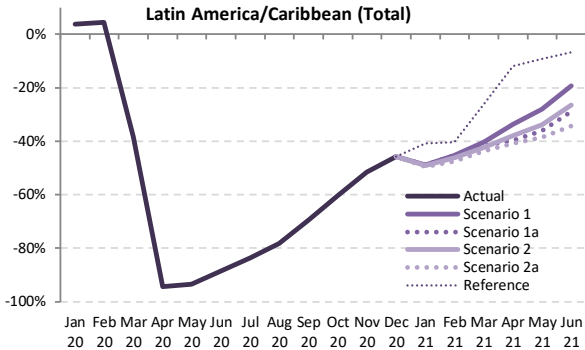
Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-6.3%	-9.5%	-4.4%	-8,770	-10.1%	-4,698	-15.0%	-4,072	-7.3%	-1,321	-976	-346
2Q 2020	-89.6%	-91.6%	-88.5%	-76,687	-92.2%	-28,082	-96.1%	-48,606	-90.0%	-9,679	-5,628	-4,051
3Q 2020	-72.4%	-79.3%	-68.9%	-67,726	-77.5%	-26,240	-89.4%	-41,485	-71.5%	-8,805	-5,319	-3,486
4Q 2020	-47.1%	-60.4%	-40.4%	-45,301	-52.2%	-21,765	-76.1%	-23,537	-40.5%	-6,421	-4,434	-1,987
<b>Total 2020</b>	<b>-53.3%</b>	<b>-58.9%</b>	<b>-50.4%</b>	<b>-198,484</b>	<b>-57.7%</b>	<b>-80,785</b>	<b>-68.2%</b>	<b>-117,700</b>	<b>-52.2%</b>	<b>-26,227</b>	<b>-16,357</b>	<b>-9,870</b>
1Q 2021	-40.3% to -39.0%	-54.5% to -52.9%	-32.1% to -30.9%	-40,774 to -38,877	-47.0% to -44.8%	-22,173 to -21,020	-70.9% to -67.2%	-18,601 to -17,857	-33.6% to -32.2%	-6,125 to -5,840	-4,544 to -4,321	-1,581 to -1,519
2Q 2021	-30.2% to -21.4%	-41.6% to -30.2%	-24.0% to -16.7%	-31,541 to -22,481	-37.9% to -27.0%	-17,729 to -12,826	-60.7% to -43.9%	-13,817 to -9,655	-25.6% to -17.9%	-4,802 to -3,500	-3,638 to -2,680	-1,165 to -819
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-35.4% to -30.4%</b>	<b>-48.3% to -42.1%</b>	<b>-28.1% to -23.9%</b>	<b>-72,316 to -61,358</b>	<b>-42.6% to -36.1%</b>	<b>-39,902 to -33,846</b>	<b>-66.0% to -55.9%</b>	<b>-32,417 to -27,513</b>	<b>-29.6% to -25.1%</b>	<b>-10,927 to -9,340</b>	<b>-8,182 to -7,002</b>	<b>-2,745 to -2,338</b>



Seat Capacity (thousand) - Latin America/Caribbean International + Domestic																			
Year	2019			2020						2021									
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	e	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	37,918	38,484	38,769	851	2.2%	285	0.7%	39,039	21,579	21,579	21,579	21,479	24,407	-16,439 to -16,339	-43.4% to -43.1%	-17,290 to -17,190	-44.6% to -44.3%	-17,560 to -17,460	-45.0% to -44.7%
February	33,375	34,855	35,166	1,791	5.4%	311	0.9%	35,222	20,231	20,231	20,024	19,689	21,525	-13,686 to -13,144	-41.0% to -39.4%	-15,477 to -14,935	-44.0% to -42.5%	-15,533 to -14,991	-44.1% to -42.6%
March	36,136	37,503	26,758	-9,378	-26.0%	-10,745	-28.7%	38,380	23,735	23,735	23,124	22,919	28,801	-13,218 to -12,402	-36.6% to -34.3%	-3,839 to -3,023	-14.3% to -11.3%	-15,461 to -14,645	-40.3% to -38.2%
April	34,019	35,632	2,808	-31,211	-91.7%	-32,824	-92.1%	36,978	24,592	23,215	23,417	22,840	32,052	-11,178 to -9,426	-32.9% to -27.7%	20,033 to 21,785	713.5% to 775.9%	-14,138 to -12,386	-38.2% to -33.5%
May	34,267	36,112	2,976	-31,291	-91.3%	-33,136	-91.8%	37,045	26,521	24,420	24,823	23,635	32,827	-10,632 to -7,746	-31.0% to -22.6%	20,660 to 23,546	694.3% to 791.3%	-13,410 to -10,524	-36.2% to -28.4%
June	33,623	35,813	4,789	-28,835	-85.8%	-31,024	-86.6%	37,518	28,940	26,388	26,767	24,669	32,858	-8,954 to -4,684	-26.6% to -13.9%	19,880 to 24,151	415.1% to 504.3%	-12,848 to -8,578	-34.2% to -22.9%
July	37,333	38,664	8,244	-29,089	-77.9%	-30,421	-78.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	35,832	37,045	9,806	-26,026	-72.6%	-27,239	-73.5%	-	-	-	-	-	-	-	-	-	-	-	-
September	32,965	34,439	11,263	-21,702	-65.8%	-23,176	-67.3%	-	-	-	-	-	-	-	-	-	-	-	-
October	34,404	35,289	15,499	-18,905	-54.9%	-19,790	-56.1%	-	-	-	-	-	-	-	-	-	-	-	-
November	34,497	35,091	18,229	-16,268	-47.2%	-16,862	-48.1%	-	-	-	-	-	-	-	-	-	-	-	-
December	37,593	38,138	22,584	-15,009	-39.9%	-15,554	-40.8%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	107,430	110,842	100,693	-6,737	-6.3%	-10,148	-9.2%	112,641	65,546	65,546	64,727	64,087	74,733	-43,343 to -41,884	-40.3% to -39.0%	-36,606 to -35,148	-36.4% to -34.9%	-48,554 to -47,096	-43.1% to -41.8%
2Q	101,909	107,557	10,572	-91,337	-89.6%	-96,985	-90.2%	111,541	80,054	74,023	75,008	71,145	97,737	-30,764 to -21,856	-30.2% to -21.4%	60,573 to 69,481	572.9% to 657.2%	-40,396 to -31,488	-36.2% to -28.2%
3Q	106,130	110,149	29,313	-76,818	-72.4%	-80,836	-73.4%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	106,494	108,518	56,312	-50,182	-47.1%	-52,206	-48.1%	-	-	-	-	-	-	-	-	-	-	-	-
Total	421,963	437,065	196,890	-225,073	-53.3%	-240,175	-55.0%	224,182	145,599	139,568	139,735	135,232	172,470	-74,107 to -63,740	-35.4% to -30.4%	23,967 to 34,334	21.5% to 30.9%	-88,950 to -78,583	-39.7% to -35.1%

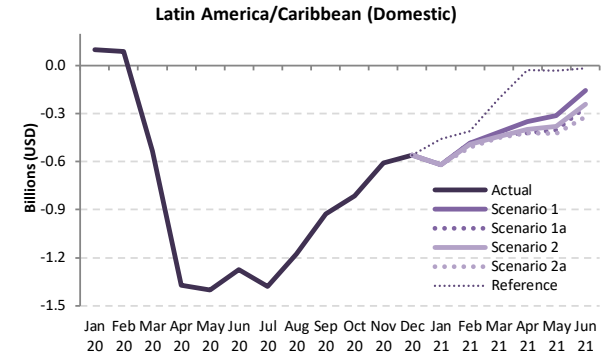
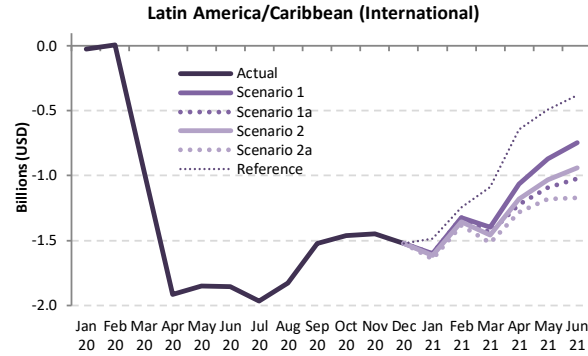
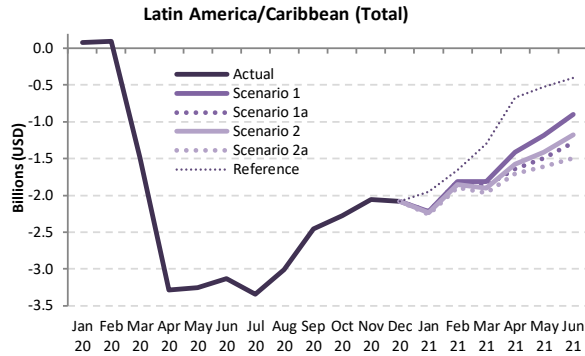






Passenger Number (thousand) - Latin America/Caribbean International + Domestic																			
Year	2019			2020						2021									
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e					e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	30,843	31,496	32,007	1,165	3.8%	511	1.6%	32,142	15,777	15,777	15,702	15,546	18,274	-15,297 to -15,066	-49.6% to -48.8%	-16,462 to -16,230	-51.4% to -50.7%	-16,597 to -16,365	-51.6% to -50.9%
February	26,782	28,144	27,966	1,185	4.4%	-177	-0.6%	28,607	14,678	14,678	14,401	14,041	15,972	-12,741 to -12,104	-47.6% to -45.2%	-13,926 to -13,288	-49.8% to -47.5%	-14,566 to -13,929	-50.9% to -48.7%
March	29,083	30,363	17,964	-11,119	-38.2%	-12,399	-40.8%	31,251	17,375	16,959	16,732	16,347	21,432	-12,736 to -11,708	-43.8% to -40.3%	-1,617 to -589	-9.0% to -3.3%	-14,904 to -13,876	-47.7% to -44.4%
April	27,557	29,032	1,530	-26,027	-94.4%	-27,502	-94.7%	30,293	18,290	16,643	17,119	16,325	24,291	-11,232 to -9,266	-40.8% to -33.6%	14,795 to 16,761	967.3% to 1095.7%	-13,968 to -12,002	-46.1% to -39.6%
May	27,945	29,622	1,833	-26,113	-93.4%	-27,789	-93.8%	30,552	20,082	17,864	18,462	17,138	25,368	-10,807 to -7,863	-38.7% to -28.1%	15,306 to 18,249	835.2% to 995.9%	-13,414 to -10,470	-43.9% to -34.3%
June	27,710	29,678	3,162	-24,548	-88.6%	-26,517	-89.3%	31,260	22,358	19,716	20,360	18,207	25,860	-9,503 to -5,352	-34.3% to -19.3%	15,045 to 19,196	475.8% to 607.1%	-13,053 to -8,901	-41.8% to -28.5%
July	31,416	32,731	5,165	-26,251	-83.6%	-27,566	-84.2%	-	-	-	-	-	-	-	-	-	-	-	-
August	29,495	30,672	6,447	-23,048	-78.1%	-24,225	-79.0%	-	-	-	-	-	-	-	-	-	-	-	-
September	26,499	27,847	8,073	-18,426	-69.5%	-19,774	-71.0%	-	-	-	-	-	-	-	-	-	-	-	-
October	27,937	28,829	11,102	-16,835	-60.3%	-17,727	-61.5%	-	-	-	-	-	-	-	-	-	-	-	-
November	27,860	28,511	13,508	-14,352	-51.5%	-15,003	-52.6%	-	-	-	-	-	-	-	-	-	-	-	-
December	30,911	31,542	16,797	-14,114	-45.7%	-14,745	-46.7%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	86,707	90,003	77,937	-8,770	-10.1%	-12,066	-13.4%	92,001	47,830	47,414	46,835	45,933	55,678	-40,774 to -38,877	-47.0% to -44.8%	-32,004 to -30,107	-41.1% to -38.6%	-46,068 to -44,171	-50.1% to -48.0%
2Q	83,212	88,332	6,524	-76,887	-92.2%	-81,808	-92.6%	92,104	60,731	54,223	55,941	51,670	75,518	-31,541 to -22,481	-37.9% to -27.0%	45,146 to 54,206	692.0% to 830.9%	-40,434 to -31,374	-43.9% to -34.1%
3Q	87,410	91,250	19,685	-67,726	-77.5%	-71,566	-78.4%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	86,708	88,882	41,407	-45,301	-52.2%	-47,475	-53.4%	-	-	-	-	-	-	-	-	-	-	-	-
Total	344,037	358,467	145,553	-198,484	-57.7%	-212,914	-59.4%	184,105	108,561	101,638	102,775	97,603	131,196	-72,316 to -61,358	-42.6% to -36.1%	13,142 to 24,099	15.6% to 28.5%	-86,502 to -75,545	-47.0% to -41.0%





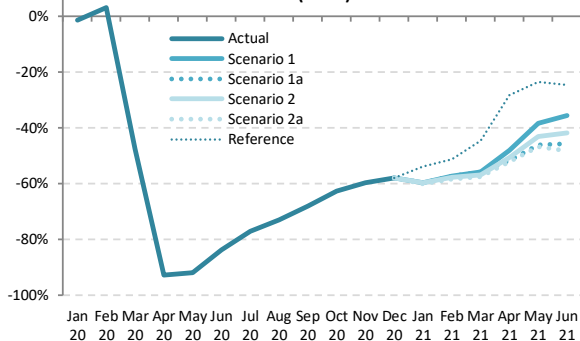
Passenger revenue (USD, million) - Latin America/Caribbean International + Domestic																			
Year	2019			2020						2021									
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	3,865	3,887	3,940	75	1.9%	53	1.4%	3,943	1,646	1,646	1,631	1,603	1,918	-2,263 to -2,220	-58.5% to -57.4%	-2,337 to -2,294	-59.3% to -58.2%	-2,341 to -2,297	-59.4% to -58.3%
February	3,361	3,483	3,457	96	2.9%	-26	-0.8%	3,523	1,552	1,552	1,511	1,465	1,705	-1,895 to -1,808	-56.4% to -53.8%	-1,991 to -1,904	-57.6% to -55.1%	-2,057 to -1,971	-58.4% to -55.9%
March	3,688	3,768	2,196	-1,492	-40.5%	-1,571	-41.7%	3,826	1,876	1,817	1,786	1,722	2,392	-1,967 to -1,812	-53.3% to -49.1%	-475 to -320	-21.6% to -14.6%	-2,104 to -1,950	-55.0% to -51.0%
April	3,444	3,609	154	-3,290	-95.5%	-3,455	-95.7%	3,745	2,029	1,803	1,866	1,741	2,773	-1,703 to -1,415	-49.4% to -41.1%	1,587 to 1,875	1029.1% to 1215.8%	-2,003 to -1,715	-53.5% to -45.8%
May	3,439	3,630	184	-3,256	-94.7%	-3,446	-94.9%	3,745	2,257	1,945	2,029	1,833	2,916	-1,607 to -1,182	-46.7% to -34.4%	1,649 to 2,074	896.7% to 1127.6%	-1,912 to -1,488	-51.1% to -39.7%
June	3,450	3,666	316	-3,134	-90.8%	-3,350	-91.4%	3,831	2,547	2,168	2,270	1,957	3,051	-1,493 to -902	-43.3% to -26.2%	1,641 to 2,231	519.5% to 706.4%	-1,874 to -1,284	-48.9% to -33.5%
July	3,875	4,038	529	-3,346	-86.4%	-3,509	-86.9%	-	-	-	-	-	-	-	-	-	-	-	-
August	3,664	3,827	657	-3,007	-82.1%	-3,170	-82.8%	-	-	-	-	-	-	-	-	-	-	-	-
September	3,229	3,398	777	-2,452	-75.9%	-2,620	-77.1%	-	-	-	-	-	-	-	-	-	-	-	-
October	3,364	3,437	1,087	-2,278	-67.7%	-2,350	-68.4%	-	-	-	-	-	-	-	-	-	-	-	-
November	3,405	3,436	1,347	-2,059	-60.4%	-2,089	-60.8%	-	-	-	-	-	-	-	-	-	-	-	-
December	3,829	3,870	1,744	-2,085	-54.4%	-2,126	-54.9%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	10,914	11,138	9,593	-1,321	-12.1%	-1,545	-13.9%	11,292	5,074	5,015	4,929	4,790	6,014	-6,125 to -5,840	-56.1% to -53.5%	-4,803 to -4,519	-50.1% to -47.1%	-6,502 to -6,218	-57.6% to -55.1%
2Q	10,333	10,905	654	-9,679	-93.7%	-10,251	-94.0%	11,320	6,834	5,916	6,165	5,531	8,740	-4,802 to -3,500	-46.5% to -33.9%	4,877 to 6,180	745.7% to 944.9%	-5,790 to -4,487	-51.1% to -39.6%
3Q	10,768	11,263	1,963	-8,805	-81.8%	-9,300	-82.6%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	10,599	10,743	4,178	-6,421	-60.6%	-6,565	-61.1%	-	-	-	-	-	-	-	-	-	-	-	-
Total	42,614	44,049	16,388	-26,227	-61.5%	-27,661	-62.8%	22,612	11,908	10,931	11,093	10,321	14,754	-10,927 to -9,340	-51.4% to -44.0%	74 to 1,661	0.7% to 16.2%	-12,292 to -10,705	-54.4% to -47.3%



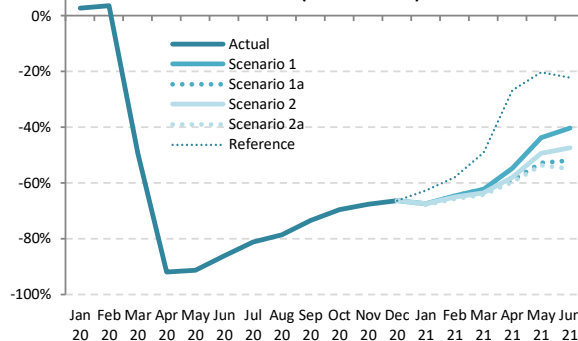
# Middle East

Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-15.8%	-14.8%	-19.1%	-8,127	-18.3%	-5,982	-17.3%	-2,145	-21.7%	-1,243	-1,040	-203
2Q 2020	-89.4%	-89.7%	-88.2%	-43,712	-95.5%	-34,279	-96.1%	-9,433	-93.1%	-7,184	-6,292	-891
3Q 2020	-72.8%	-77.9%	-53.7%	-44,476	-86.5%	-36,766	-90.1%	-7,710	-72.6%	-7,451	-6,722	-729
4Q 2020	-60.0%	-67.8%	-30.7%	-35,283	-77.6%	-30,115	-83.5%	-5,168	-54.9%	-6,019	-5,531	-488
<b>Total 2020</b>	<b>-59.7%</b>	<b>-62.9%</b>	<b>-48.0%</b>	<b>-131,598</b>	<b>-70.4%</b>	<b>-107,143</b>	<b>-72.9%</b>	<b>-24,456</b>	<b>-61.1%</b>	<b>-21,896</b>	<b>-19,585</b>	<b>-2,311</b>
1Q 2021	-58.6% to -57.6%	-65.9% to -64.7%	-33.5% to -32.8%	-33,562 to -32,016	-75.6% to -72.1%	-28,094 to -26,991	-81.4% to -78.2%	-5,467 to -5,025	-55.3% to -50.8%	-5,658 to -5,410	-5,142 to -4,935	-517 to -475
2Q 2021	-49.1% to -40.5%	-56.0% to -46.2%	-24.6% to -20.6%	-31,195 to -24,367	-68.1% to -53.2%	-26,453 to -21,155	-74.2% to -59.3%	-4,742 to -3,212	-46.8% to -31.7%	-5,294 to -4,162	-4,846 to -3,859	-448 to -304
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-53.9% to -49.1%</b>	<b>-61.0% to -55.5%</b>	<b>-29.1% to -26.8%</b>	<b>-64,757 to -56,383</b>	<b>-71.8% to -62.5%</b>	<b>-54,548 to -48,147</b>	<b>-77.8% to -68.6%</b>	<b>-10,209 to -8,236</b>	<b>-51.0% to -41.2%</b>	<b>-10,953 to -9,572</b>	<b>-9,988 to -8,794</b>	<b>-965 to -778</b>

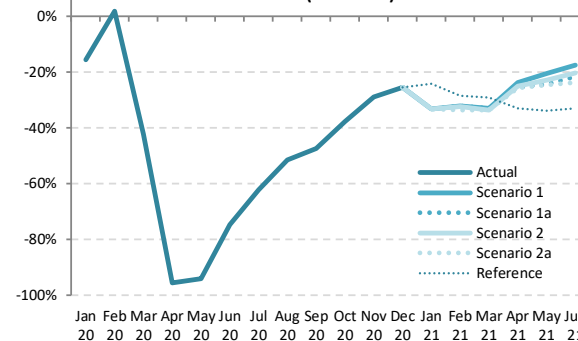
### Middle East (Total)



### Middle East (International)



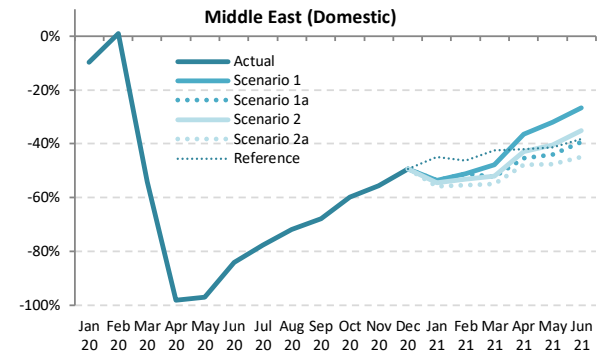
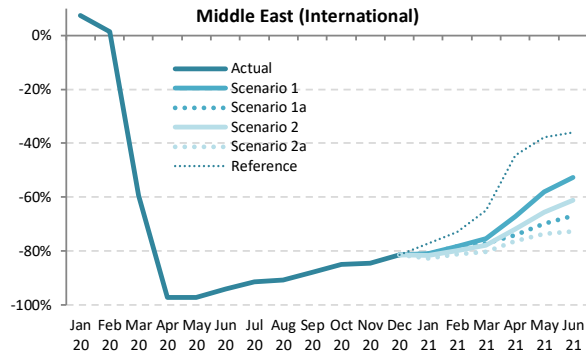
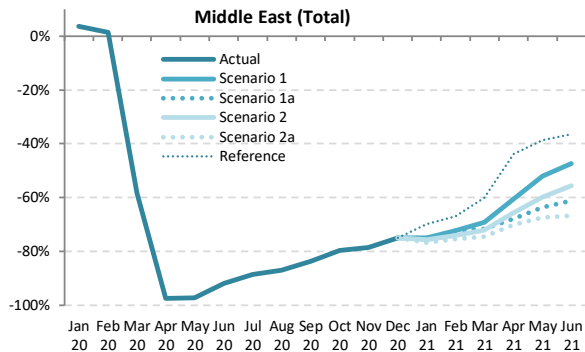
### Middle East (Domestic)



### Seat Capacity (thousand) - Middle East International + Domestic

Year	2019		2020						2021										
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	e	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	20,935	21,294	20,651	-283	-1.4%	-643	-3.0%	21,185	8,461	8,461	8,461	8,372	9,649	-12,562 to -12,474	-60.0% to -59.6%	-12,279 to -12,191	-59.5% to -59.0%	-12,812 to -12,724	-60.5% to -60.1%
February	18,681	19,576	19,296	615	3.3%	-280	-1.4%	19,408	7,970	7,970	7,903	7,771	9,092	-10,910 to -10,711	-58.4% to -57.3%	-11,525 to -11,326	-59.7% to -58.7%	-11,637 to -11,438	-60.0% to -58.9%
March	20,637	20,982	10,797	-9,840	-47.7%	-10,185	-48.5%	20,493	9,131	9,131	8,897	8,791	11,427	-11,847 to -11,506	-57.4% to -55.8%	-2,006 to -1,666	-18.6% to -15.4%	-11,702 to -11,362	-57.1% to -55.4%
April	19,673	20,513	1,416	-18,257	-92.8%	-19,097	-93.1%	20,667	10,248	9,512	9,721	9,417	14,140	-10,256 to -9,425	-52.1% to -47.9%	8,001 to 8,832	565.0% to 623.7%	-11,251 to -10,420	-54.4% to -50.4%
May	19,505	21,155	1,561	-17,944	-92.0%	-19,594	-92.6%	21,735	12,034	10,533	11,105	10,391	14,935	-9,114 to -7,471	-46.7% to -38.3%	8,830 to 10,473	565.6% to 670.9%	-11,344 to -9,701	-52.2% to -44.6%
June	20,736	21,286	3,388	-17,349	-83.7%	-17,898	-84.1%	21,437	13,375	11,286	12,096	10,715	15,660	-10,021 to -7,362	-48.3% to -35.5%	7,327 to 9,987	216.3% to 294.8%	-10,723 to -8,063	-50.0% to -37.6%
July	21,924	22,458	5,015	-16,910	-77.1%	-17,444	-77.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	22,639	22,971	6,095	-16,544	-73.1%	-16,877	-73.5%	-	-	-	-	-	-	-	-	-	-	-	-
September	20,534	20,934	6,585	-13,949	-67.9%	-14,349	-68.5%	-	-	-	-	-	-	-	-	-	-	-	-
October	20,470	20,469	7,642	-12,828	-62.7%	-12,826	-62.7%	-	-	-	-	-	-	-	-	-	-	-	-
November	19,516	19,342	8,797	-11,619	-59.5%	-11,445	-59.2%	-	-	-	-	-	-	-	-	-	-	-	-
December	20,828	21,169	8,759	-12,069	-57.9%	-12,410	-58.6%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	60,252	61,852	50,744	-9,508	-15.8%	-11,108	-18.0%	61,085	25,561	25,561	25,260	24,934	30,167	-35,319 to -34,691	-58.6% to -57.6%	-25,811 to -25,183	-50.9% to -49.6%	-36,151 to -35,524	-59.2% to -58.2%
2Q	59,914	62,954	6,365	-53,549	-89.4%	-56,589	-89.9%	63,840	35,656	31,330	32,922	30,522	44,735	-29,392 to -24,258	-49.1% to -40.5%	24,158 to 29,291	379.5% to 460.2%	-33,318 to -28,184	-52.2% to -44.1%
3Q	65,097	66,364	17,694	-47,402	-72.8%	-48,669	-73.3%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	60,814	60,979	24,298	-36,516	-60.0%	-36,681	-60.2%	-	-	-	-	-	-	-	-	-	-	-	-
Total	246,077	252,149	99,102	-146,975	-59.7%	-153,047	-60.7%	124,925	61,218	56,892	58,182	55,456	74,903	-64,710 to -58,949	-53.9% to -49.1%	-1,653 to 4,109	-2.9% to 7.2%	-69,469 to -63,707	-55.6% to -51.0%





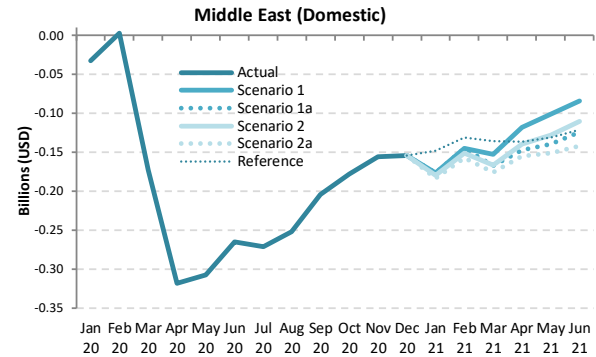
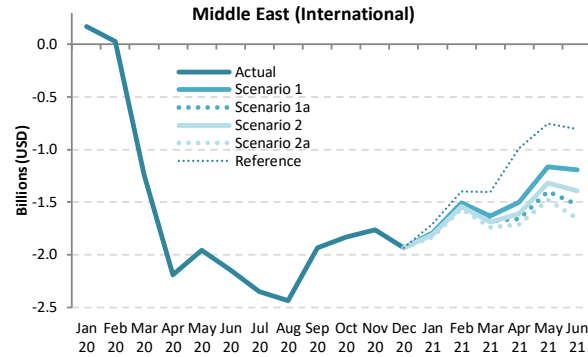
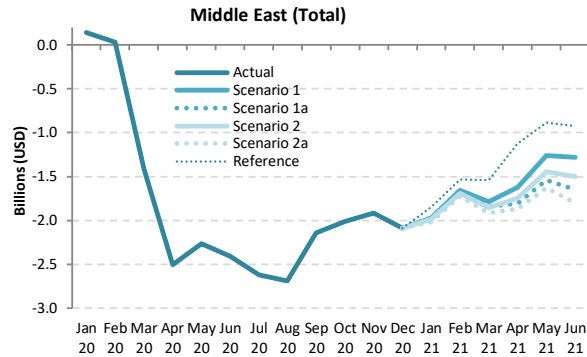
Passenger Number (thousand) - Middle East International + Domestic

Year	2019		2020						2021										
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	e	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	15,580	15,907	16,141	561	3.6%	234	1.5%	15,879	3,912	3,912	3,797	3,618	4,694	-11,961 to -11,668	-76.8% to -74.9%	-12,522 to -12,229	-77.6% to -75.8%	-12,260 to -11,967	-77.2% to -75.4%
February	13,560	14,262	13,747	187	1.4%	-515	-3.6%	14,187	3,753	3,753	3,531	3,326	4,484	-10,234 to -9,807	-75.5% to -72.3%	-10,421 to -9,994	-75.8% to -72.7%	-10,861 to -10,435	-76.6% to -73.6%
March	15,238	15,543	6,364	-8,875	-58.2%	-9,180	-59.1%	15,234	4,698	4,319	4,251	3,872	6,102	-11,367 to -10,540	-74.6% to -69.2%	-2,492 to -1,666	-39.2% to -26.2%	-11,362 to -10,536	-74.6% to -69.2%
April	15,717	16,444	398	-15,319	-97.5%	-16,046	-97.6%	15,624	6,227	5,060	5,421	4,697	8,817	-11,020 to -9,490	-70.1% to -60.4%	4,299 to 5,829	1080.4% to 1464.9%	-11,927 to -10,397	-71.7% to -62.5%
May	14,250	15,506	404	-13,846	-97.2%	-15,102	-97.4%	15,984	6,851	5,173	5,735	4,639	8,742	-9,611 to -7,400	-67.4% to -51.9%	4,235 to 6,447	1048.2% to 1595.5%	-11,345 to -9,134	-71.0% to -57.1%
June	15,824	16,293	1,277	-14,547	-91.9%	-15,016	-92.2%	16,464	8,346	6,152	7,012	5,260	10,056	-10,564 to -7,478	-66.8% to -47.3%	3,983 to 7,069	311.8% to 553.4%	-11,204 to -8,118	-68.1% to -49.3%
July	17,697	18,188	2,033	-15,664	-88.5%	-16,155	-88.8%	-	-	-	-	-	-	-	-	-	-	-	-
August	18,438	18,772	2,397	-16,041	-87.0%	-16,375	-87.2%	-	-	-	-	-	-	-	-	-	-	-	-
September	15,282	15,628	2,510	-12,771	-83.6%	-13,118	-83.9%	-	-	-	-	-	-	-	-	-	-	-	-
October	14,973	15,032	3,047	-11,926	-79.7%	-11,986	-79.7%	-	-	-	-	-	-	-	-	-	-	-	-
November	14,307	14,235	3,076	-11,231	-78.5%	-11,159	-78.4%	-	-	-	-	-	-	-	-	-	-	-	-
December	16,193	16,518	4,068	-12,126	-74.9%	-12,451	-75.4%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	44,378	45,712	36,251	-8,127	-18.3%	-9,461	-20.7%	45,300	12,362	11,983	11,579	10,816	15,280	-33,562 to -32,016	-75.6% to -72.1%	-25,435 to -23,889	-70.2% to -65.9%	-34,484 to -32,938	-76.1% to -72.7%
2Q	45,791	48,243	2,079	-43,712	-95.5%	-46,164	-95.7%	49,072	21,424	16,385	18,168	14,596	27,616	-31,195 to -24,367	-68.1% to -53.2%	12,517 to 19,345	602.0% to 930.4%	-34,476 to -27,648	-70.3% to -56.3%
3Q	51,417	52,589	6,941	-44,476	-86.5%	-45,648	-86.8%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	45,473	45,786	10,191	-35,283	-77.6%	-35,596	-77.7%	-	-	-	-	-	-	-	-	-	-	-	-
Total	187,060	192,330	55,462	-131,598	-70.4%	-136,868	-71.2%	94,373	33,787	28,368	29,747	25,413	42,896	-64,757 to -56,383	-71.8% to -62.5%	-12,918 to -4,544	-33.7% to -11.9%	-68,960 to -60,586	-73.1% to -64.2%



Passenger Number (thousand) - Middle East International																			
Year	2019					2020						2021							
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	12,091	12,646	12,995	904	7.5%	349	2.8%	12,724	2,292	2,292	2,211	2,076	2,772	-10,016 to -9,800	-82.8% to -81.0%	-10,919 to -10,703	-84.0% to -82.4%	-10,648 to -10,432	-83.7% to -82.0%
February	10,554	11,354	10,711	157	1.5%	-643	-5.7%	11,453	2,285	2,285	2,122	1,982	2,865	-8,572 to -8,269	-81.2% to -78.3%	-8,729 to -8,426	-81.5% to -78.7%	-9,472 to -9,168	-82.7% to -80.0%
March	11,849	12,389	4,806	-7,043	-59.4%	-7,583	-61.2%	12,278	2,926	2,700	2,628	2,343	4,152	-9,507 to -8,923	-80.2% to -75.3%	-2,464 to -1,880	-51.3% to -39.1%	-9,935 to -9,351	-80.9% to -76.2%
April	12,285	13,028	335	-11,950	-97.3%	-12,693	-97.4%	13,310	4,043	3,188	3,465	2,909	6,827	-9,377 to -8,242	-76.3% to -67.1%	2,574 to 3,708	768.2% to 1106.8%	-10,402 to -9,268	-78.1% to -69.6%
May	10,893	12,165	303	-10,590	-97.2%	-11,862	-97.5%	12,762	4,566	3,291	3,738	2,880	6,771	-8,013 to -6,327	-73.6% to -58.1%	2,577 to 4,263	850.1% to 1406.1%	-9,882 to -8,196	-77.4% to -64.2%
June	12,483	12,968	744	-11,739	-94.0%	-12,224	-94.3%	13,288	5,898	4,122	4,842	3,419	7,994	-9,064 to -6,586	-72.6% to -52.8%	2,675 to 5,153	359.6% to 692.6%	-9,869 to -7,391	-74.3% to -55.6%
July	13,998	14,506	1,207	-12,791	-91.4%	-13,300	-91.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	14,721	15,073	1,351	-13,370	-90.8%	-13,722	-91.0%	-	-	-	-	-	-	-	-	-	-	-	-
September	12,085	12,447	1,480	-10,605	-87.8%	-10,967	-88.1%	-	-	-	-	-	-	-	-	-	-	-	-
October	11,819	12,204	1,782	-10,037	-84.9%	-10,422	-85.4%	-	-	-	-	-	-	-	-	-	-	-	-
November	11,340	11,589	1,756	-9,584	-84.5%	-9,833	-84.8%	-	-	-	-	-	-	-	-	-	-	-	-
December	12,892	13,476	2,398	-10,494	-81.4%	-11,078	-82.2%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	34,494	36,390	28,512	-5,982	-17.3%	-7,878	-21.6%	36,455	7,503	7,276	6,961	6,400	9,788	-28,094 to -26,991	-81.4% to -78.2%	-22,112 to -21,009	-77.6% to -73.7%	-30,055 to -28,952	-82.4% to -79.4%
2Q	35,662	38,161	1,382	-34,279	-96.1%	-36,779	-96.4%	39,360	14,506	10,601	12,044	9,208	21,591	-26,453 to -21,155	-74.2% to -59.3%	7,826 to 13,124	566.2% to 949.5%	-30,152 to -24,854	-76.6% to -63.1%
3Q	40,804	42,026	4,037	-36,766	-90.1%	-37,989	-90.4%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	36,051	37,269	5,937	-30,115	-83.5%	-31,333	-84.1%	-	-	-	-	-	-	-	-	-	-	-	-
Total	147,011	153,846	39,868	-107,143	-72.9%	-113,978	-74.1%	75,815	22,009	17,877	19,005	15,608	31,379	-54,548 to -48,147	-77.8% to -68.6%	-14,286 to -7,885	-47.8% to -26.4%	-60,207 to -53,806	-79.4% to -71.0%

Passenger Number (thousand) - Middle East Domestic																			
Year	2019					2020						2021							
Month	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
	a	b	c	c-a	c/a-1	c-b	c/b-1							d	e	e-a	e/a-1	e-c	e/a-1
January	3,489	3,260	3,146	-343	-9.8%	-115	-3.5%	3,155	1,620	1,620	1,586	1,543	1,922	-1,946 to -1,868	-55.8% to -53.6%	-1,603 to -1,525	-51.0% to -48.5%	-1,612 to -1,535	-51.1% to -48.6%
February	3,006	2,907	3,036	30	1.0%	128	4.4%	2,734	1,467	1,467	1,409	1,344	1,619	-1,662 to -1,539	-55.3% to -51.2%	-1,691 to -1,568	-55.7% to -51.7%	-1,390 to -1,267	-50.8% to -46.3%
March	3,389	3,154	1,557	-1,831	-54.0%	-1,597	-50.6%	2,956	1,772	1,619	1,624	1,529	1,951	-1,860 to -1,617	-54.9% to -47.7%	-28 to 214	-1.8% to 13.7%	-1,427 to -1,185	-48.3% to -40.1%
April	3,432	3,416	63	-3,369	-98.2%	-3,353	-98.2%	3,314	2,185	1,873	1,957	1,789	1,991	-1,643 to -1,247	-47.9% to -36.3%	1,726 to 2,122	2741.7% to 3370.6%	-1,525 to -1,129	-46.0% to -34.1%
May	3,357	3,341	101	-3,256	-97.0%	-3,240	-97.0%	3,223	2,285	1,881	1,998	1,759	1,972	-1,598 to -1,072	-47.6% to -31.9%	1,658 to 2,184	1643.6% to 2164.7%	-1,464 to -938	-45.4% to -29.1%
June	3,341	3,325	533	-2,808	-84.0%	-2,792	-84.0%	3,176	2,449	2,030	2,170	1,840	2,062	-1,501 to -892	-44.9% to -26.7%	1,307 to 1,915	245.1% to 359.2%	-1,335 to -727	-42.0% to -22.9%
July	3,699	3,682	826	-2,873	-77.7%	-2,855	-77.6%	-	-	-	-	-	-	-	-	-	-	-	-
August	3,717	3,699	1,046	-2,671	-71.9%	-2,653	-71.7%	-	-	-	-	-	-	-	-	-	-	-	-
September	3,197	3,182	1,031	-2,166	-67.8%	-2,151	-67.6%	-	-	-	-	-	-	-	-	-	-	-	-
October	3,154	2,828	1,265	-1,889	-59.9%	-1,564	-55.3%	-	-	-	-	-	-	-	-	-	-	-	-
November	2,967	2,646	1,320	-1,647	-55.5%	-1,327	-50.1%	-	-	-	-	-	-	-	-	-	-	-	-
December	3,301	3,042	1,670	-1,632	-49.4%	-1,373	-45.1%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	9,884	9,322	7,739	-2,145	-21.7%	-1,583	-17.0%	8,845	4,859	4,707	4,619	4,417	5,492	-5,467 to -5,025	-55.3% to -50.8%	-3,323 to -2,880	-42.9% to -37.2%	-4,429 to -3,986	-50.1% to -45.1%
2Q	10,130	10,082	697	-9,433	-93.1%	-9,385	-93.1%	9,712	6,918	5,784	6,124	5,388	6,025	-4,742 to -3,212	-46.8% to -31.7%	4,691 to 6,221	673.0% to 892.4%	-4,324 to -2,794	-44.5% to -28.8%
3Q	10,613	10,563	2,903	-7,710	-72.6%	-7,660	-72.5%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	9,422	8,517	4,254	-5,168	-54.9%	-4,263	-50.1%	-	-	-	-	-	-	-	-	-	-	-	-
Total	40,049	38,484	15,593	-24,456	-61.1%	-22,890	-59.5%	18,557	11,777	10,491	10,742	9,805	11,517	-10,209 to -8,236	-51.0% to -41.2%	1,369 to 3,341	16.2% to 39.6%	-8,753 to -6,780	-47.2% to -36.5%



Passenger revenue (USD, million) - Middle East International + Domestic																				
Year	2019			2020					2021											
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline		
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	-	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	2,553	2,631	2,692	139	5.5%	62	2.3%	2,643	583	583	565	535	701	-	-2,018 to -1,970	-79.0% to -77.2%	-2,157 to -2,109	-80.1% to -78.3%	-2,108 to -2,060	-79.8% to -77.9%
February	2,221	2,357	2,252	31	1.4%	-106	-4.5%	2,361	567	567	531	499	689	-	-1,722 to -1,654	-77.5% to -74.5%	-1,753 to -1,685	-77.9% to -74.8%	-1,862 to -1,794	-78.9% to -76.0%
March	2,502	2,574	1,089	-1,413	-56.5%	-1,486	-57.7%	2,541	716	659	646	584	960	-	-1,918 to -1,786	-76.7% to -71.4%	-505 to -373	-46.4% to -34.3%	-1,957 to -1,825	-77.0% to -71.8%
April	2,583	2,717	74	-2,509	-97.1%	-2,643	-97.3%	2,764	963	774	834	714	1,461	-	-1,869 to -1,620	-72.4% to -62.7%	640 to 889	861.1% to 1196.7%	-2,050 to -1,801	-74.2% to -65.2%
May	2,333	2,559	69	-2,264	-97.1%	-2,490	-97.3%	2,654	1,070	794	888	706	1,448	-	-1,627 to -1,263	-69.8% to -54.1%	637 to 1,001	929.4% to 1460.6%	-1,949 to -1,585	-73.4% to -59.7%
June	2,612	2,695	201	-2,410	-92.3%	-2,494	-92.5%	2,743	1,333	963	1,110	814	1,684	-	-1,798 to -1,279	-68.8% to -49.0%	613 to 1,131	304.3% to 562.0%	-1,929 to -1,410	-70.3% to -51.4%
July	2,935	3,015	316	-2,619	-89.2%	-2,699	-89.5%	-	-	-	-	-	-	-	-	-	-	-	-	-
August	3,055	3,110	364	-2,690	-88.1%	-2,746	-88.3%	-	-	-	-	-	-	-	-	-	-	-	-	-
September	2,526	2,587	384	-2,141	-84.8%	-2,203	-85.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
October	2,471	2,507	459	-2,013	-81.4%	-2,048	-81.7%	-	-	-	-	-	-	-	-	-	-	-	-	-
November	2,372	2,398	454	-1,918	-80.9%	-1,944	-81.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
December	2,696	2,776	607	-2,088	-77.5%	-2,168	-78.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
1Q	7,276	7,562	6,032	-1,243	-17.1%	-1,530	-20.2%	7,544	1,866	1,809	1,741	1,617	2,351	-	-5,658 to -5,410	-77.8% to -74.4%	-4,415 to -4,167	-73.2% to -69.1%	-5,927 to -5,679	-78.6% to -75.3%
2Q	7,528	7,971	344	-7,184	-95.4%	-7,627	-95.7%	8,161	3,365	2,531	2,832	2,233	4,593	-	-5,294 to -4,162	-70.3% to -55.3%	1,889 to 3,021	549.0% to 877.9%	-5,927 to -4,795	-72.6% to -58.8%
3Q	8,515	8,712	1,064	-7,451	-87.5%	-7,648	-87.8%	-	-	-	-	-	-	-	-	-	-	-	-	-
4Q	7,539	7,681	1,520	-6,019	-79.8%	-6,161	-80.2%	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	30,858	31,926	8,961	-21,896	-71.0%	-22,965	-71.9%	15,705	5,231	4,340	4,573	3,851	6,944	-	-10,953 to -9,572	-74.0% to -64.7%	-2,526 to -1,145	-39.6% to -18.0%	-11,854 to -10,474	-75.5% to -66.7%



**Passenger revenue (USD, million) - Middle East International**

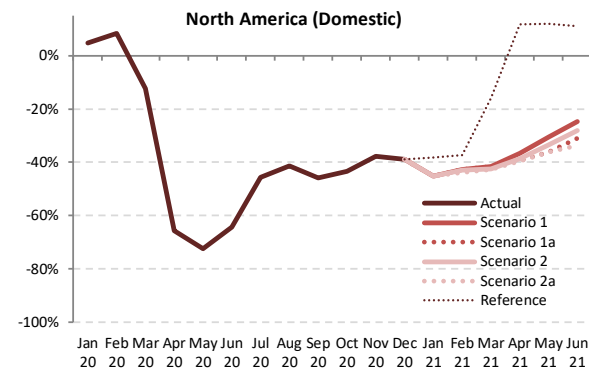
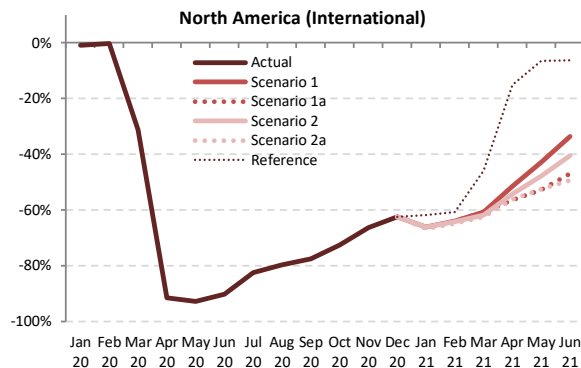
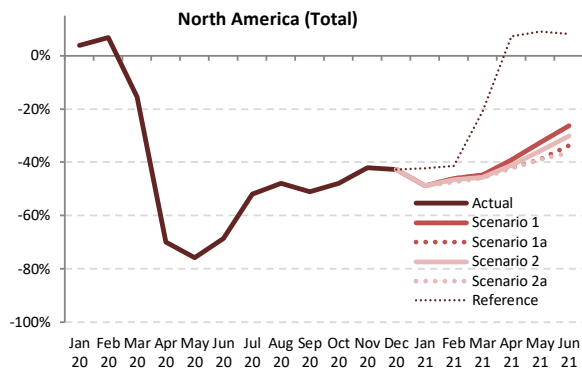
Year	2019		2020						2021											
	Actual a	Baseline b	Estimated c	Compared to 2019		Compared to Baseline		Baseline d	Scenario 1	Scenario 1a e		Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month				c-a	c/a-1	c-b	c/b-1								e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	2,223	2,322	2,395	172	7.7%	72	3.1%	2,345	430	430	415	389	519	-	-1,834 to -1,793	-82.5% to -80.7%	-2,006 to -1,965	-83.7% to -82.1%	-1,955 to -1,915	-83.4% to -81.7%
February	1,937	2,083	1,965	28	1.4%	-118	-5.7%	2,102	428	428	398	372	536	-	-1,565 to -1,509	-80.8% to -77.9%	-1,593 to -1,536	-81.1% to -78.2%	-1,731 to -1,674	-82.3% to -79.6%
March	2,181	2,276	941	-1,240	-56.8%	-1,335	-58.6%	2,261	548	506	492	439	776	-	-1,742 to -1,633	-79.9% to -74.9%	-502 to -393	-53.4% to -41.8%	-1,822 to -1,713	-80.6% to -75.8%
April	2,259	2,394	68	-2,190	-97.0%	-2,326	-97.1%	2,451	757	597	649	545	1,273	-	-1,714 to -1,502	-75.9% to -66.5%	477 to 688	697.4% to 1007.4%	-1,906 to -1,694	-77.8% to -69.1%
May	2,016	2,243	59	-1,957	-97.1%	-2,184	-97.4%	2,350	854	616	699	539	1,262	-	-1,476 to -1,162	-73.2% to -57.6%	480 to 795	814.0% to 1346.9%	-1,811 to -1,496	-77.0% to -63.7%
June	2,296	2,381	151	-2,145	-93.4%	-2,230	-93.7%	2,442	1,101	771	905	640	1,489	-	-1,656 to -1,195	-72.1% to -52.0%	489 to 950	324.0% to 629.7%	-1,802 to -1,341	-73.8% to -54.9%
July	2,585	2,667	238	-2,348	-90.8%	-2,429	-91.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
August	2,703	2,761	265	-2,438	-90.2%	-2,495	-90.4%	-	-	-	-	-	-	-	-	-	-	-	-	-
September	2,223	2,286	287	-1,937	-87.1%	-1,999	-87.5%	-	-	-	-	-	-	-	-	-	-	-	-	-
October	2,173	2,239	339	-1,834	-84.4%	-1,900	-84.9%	-	-	-	-	-	-	-	-	-	-	-	-	-
November	2,092	2,148	329	-1,762	-84.3%	-1,819	-84.7%	-	-	-	-	-	-	-	-	-	-	-	-	-
December	2,384	2,488	450	-1,934	-81.1%	-2,039	-81.9%	-	-	-	-	-	-	-	-	-	-	-	-	-
1Q	6,341	6,681	5,301	-1,040	-16.4%	-1,380	-20.7%	6,708	1,406	1,364	1,305	1,200	1,832	-	-5,142 to -4,935	-81.1% to -77.8%	-4,101 to -3,895	-77.4% to -73.5%	-5,508 to -5,302	-82.1% to -79.0%
2Q	6,570	7,018	278	-6,292	-95.8%	-6,740	-96.0%	7,243	2,712	1,984	2,253	1,724	4,024	-	-4,846 to -3,859	-73.8% to -58.7%	1,446 to 2,433	519.6% to 874.5%	-5,519 to -4,531	-76.2% to -62.6%
3Q	7,512	7,714	790	-6,722	-89.5%	-6,924	-89.8%	-	-	-	-	-	-	-	-	-	-	-	-	-
4Q	6,649	6,876	1,118	-5,531	-83.2%	-5,758	-83.7%	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	27,073	28,289	7,487	-19,585	-72.3%	-20,802	-73.5%	13,951	4,118	3,348	3,558	2,924	5,856	-	-9,988 to -8,794	-77.4% to -68.1%	-2,655 to -1,461	-47.6% to -26.2%	-11,027 to -9,833	-79.0% to -70.5%

**Passenger revenue (USD, million) - Middle East Domestic**

Year	2019		2020						2021											
	Actual a	Baseline b	Estimated c	Compared to 2019		Compared to Baseline		Baseline d	Scenario 1	Scenario 1a e		Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month				c-a	c/a-1	c-b	c/b-1								e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	330	308	297	-32	-9.8%	-11	-3.5%	298	153	153	150	146	182	-	-184 to -177	-55.8% to -53.6%	-151 to -144	-51.0% to -48.5%	-152 to -145	-51.1% to -48.6%
February	284	275	287	3	1.0%	12	4.4%	258	139	139	133	127	153	-	-157 to -145	-55.3% to -51.2%	-160 to -148	-55.7% to -51.7%	-131 to -120	-50.8% to -46.3%
March	320	298	147	-173	-54.0%	-151	-50.6%	279	167	153	153	145	184	-	-176 to -153	-54.9% to -47.7%	-3 to 20	-1.8% to 13.7%	-135 to -112	-48.3% to -40.1%
April	324	323	6	-318	-98.2%	-317	-98.2%	313	206	177	185	169	188	-	-155 to -118	-47.9% to -36.3%	163 to 201	2741.7% to 3370.6%	-144 to -107	-46.0% to -34.1%
May	317	316	10	-308	-97.0%	-306	-97.0%	305	216	178	189	166	186	-	-151 to -101	-47.6% to -31.9%	157 to 206	1643.6% to 2164.7%	-138 to -89	-45.4% to -29.1%
June	316	314	50	-265	-84.0%	-264	-84.0%	300	231	192	205	174	195	-	-142 to -84	-44.9% to -26.7%	124 to 181	245.1% to 359.2%	-126 to -69	-42.0% to -22.9%
July	350	348	78	-272	-77.7%	-270	-77.6%	-	-	-	-	-	-	-	-	-	-	-	-	-
August	351	350	99	-252	-71.9%	-251	-71.7%	-	-	-	-	-	-	-	-	-	-	-	-	-
September	302	301	97	-205	-67.8%	-203	-67.6%	-	-	-	-	-	-	-	-	-	-	-	-	-
October	298	267	120	-179	-59.9%	-148	-55.3%	-	-	-	-	-	-	-	-	-	-	-	-	-
November	280	250	125	-156	-55.5%	-125	-50.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
December	312	287	158	-154	-49.4%	-130	-45.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
1Q	934	881	731	-203	-21.7%	-150	-17.0%	836	459	445	436	417	519	-	-517 to -475	-55.3% to -50.8%	-314 to -272	-42.9% to -37.2%	-419 to -377	-50.1% to -45.1%
2Q	957	953	66	-891	-93.1%	-887	-93.1%	918	654	547	579	509	569	-	-448 to -304	-46.8% to -31.7%	443 to 588	673.0% to 892.4%	-409 to -264	-44.5% to -28.8%
3Q	1,003	998	274	-729	-72.6%	-724	-72.5%	-	-	-	-	-	-	-	-	-	-	-	-	-
4Q	890	805	402	-488	-54.9%	-403	-50.1%	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3,785	3,637	1,474	-2,311	-61.1%	-2,163	-59.5%	1,754	1,113	991	1,015	927	1,088	-	-965 to -778	-51.0% to -41.2%	129 to 316	16.2% to 39.6%	-827 to -641	-47.2% to -36.5%

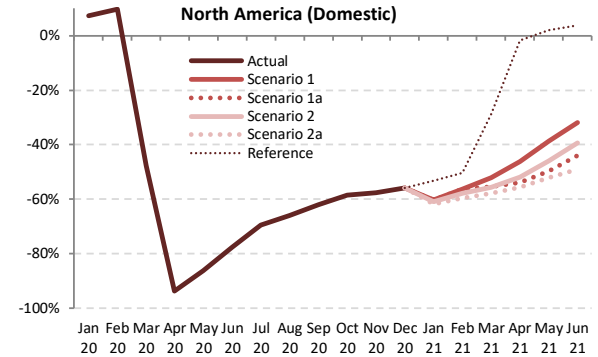
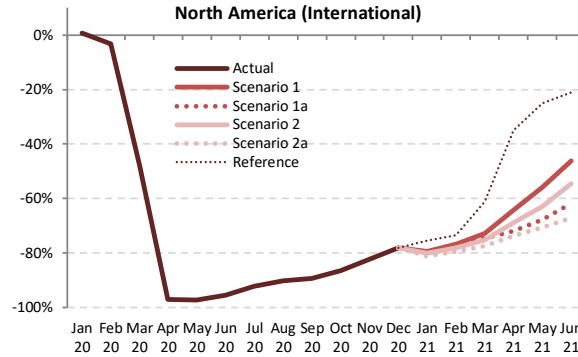
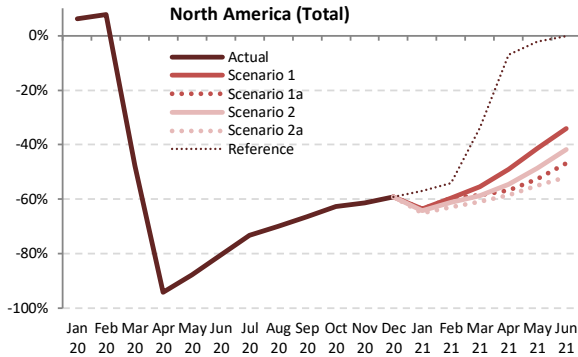
# North America

Compared to 2019	Seat capacity (%)			Passenger number (thousand)						Passenger revenue (USD, million)		
	Total	International	Domestic	Total		International		Domestic		Total	International	Domestic
1Q 2020	-2.2%	-11.4%	-0.3%	-31,354	-13.7%	-6,786	-18.1%	-24,568	-12.8%	-4,675	-1,780	-2,895
2Q 2020	-71.4%	-91.4%	-67.5%	-228,637	-87.4%	-39,617	-96.7%	-189,020	-85.6%	-32,893	-10,618	-22,274
3Q 2020	-50.2%	-80.0%	-44.3%	-185,817	-70.1%	-39,286	-90.7%	-146,531	-66.1%	-28,047	-10,780	-17,267
4Q 2020	-44.2%	-67.0%	-40.1%	-149,764	-61.1%	-30,269	-82.2%	-119,495	-57.4%	-22,316	-8,235	-14,081
<b>Total 2020</b>	<b>-42.8%</b>	<b>-63.2%</b>	<b>-38.8%</b>	<b>-595,573</b>	<b>-59.5%</b>	<b>-115,959</b>	<b>-73.1%</b>	<b>-479,614</b>	<b>-56.9%</b>	<b>-87,932</b>	<b>-31,413</b>	<b>-56,518</b>
1Q 2021	-47.4% to -46.5%	-64.6% to -63.6%	-43.9% to -43.1%	-144,089 to -136,043	-62.9% to -59.4%	-29,714 to -28,576	-79.3% to -76.3%	-114,374 to -107,467	-59.7% to -56.1%	-21,244 to -20,141	-7,766 to -7,477	-13,478 to -12,664
2Q 2021	-39.1% to -32.5%	-52.8% to -42.5%	-36.5% to -30.5%	-144,021 to -108,085	-55.0% to -41.3%	-28,834 to -22,601	-70.4% to -55.1%	-115,188 to -85,484	-52.2% to -38.7%	-21,491 to -16,374	-7,917 to -6,300	-13,574 to -10,074
3Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
4Q 2021	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total 1Q/2Q 2021</b>	<b>-43.1% to -39.3%</b>	<b>-58.5% to -52.8%</b>	<b>-40.0% to -36.6%</b>	<b>-288,110 to -244,128</b>	<b>-58.7% to -49.7%</b>	<b>-58,548 to -51,177</b>	<b>-74.6% to -65.2%</b>	<b>-229,562 to -192,950</b>	<b>-55.7% to -46.8%</b>	<b>-42,735 to -36,514</b>	<b>-15,683 to -13,777</b>	<b>-27,052 to -22,738</b>



Seat Capacity (thousand) - North America International + Domestic																			
Year	2019						2020						2021						
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1				
January	93,905	95,051	97,514	3,609	3.8%	2,463	2.6%	97,328	48,095	48,095	48,095	48,005	54,219	-45,900 to -45,809	-48.9% to -48.8%	-49,509 to -49,418	-50.8% to -50.7%	-49,323 to -49,232	-50.7% to -50.6%
February	85,504	89,395	91,385	5,882	6.9%	1,991	2.2%	91,220	46,003	46,003	45,761	44,997	50,195	-40,507 to -39,501	-47.4% to -46.2%	-46,388 to -45,382	-50.8% to -49.7%	-46,223 to -45,217	-50.7% to -49.6%
March	100,867	101,844	85,238	-15,629	-15.5%	-16,606	-16.3%	103,941	55,785	55,785	54,834	54,526	79,797	-46,341 to -45,082	-45.9% to -44.7%	-30,711 to -29,453	-36.0% to -34.6%	-49,415 to -48,156	-47.5% to -46.3%
April	97,530	100,769	29,373	-68,156	-69.9%	-71,396	-70.9%	103,871	59,348	56,462	57,357	56,260	104,642	-41,270 to -38,182	-42.3% to -39.1%	26,886 to 29,975	91.5% to 102.0%	-47,612 to -44,523	-45.8% to -42.9%
May	101,683	105,738	24,681	-77,002	-75.7%	-81,057	-76.7%	109,485	68,607	62,190	65,283	62,137	110,846	-39,545 to -33,076	-38.9% to -32.5%	37,457 to 43,926	151.8% to 178.0%	-47,348 to -40,878	-43.2% to -37.3%
June	102,378	107,581	32,109	-70,268	-68.6%	-75,472	-70.2%	109,971	75,572	67,863	71,481	65,173	110,778	-37,204 to -26,805	-36.3% to -26.2%	33,064 to 43,463	103.0% to 135.4%	-44,798 to -34,399	-40.7% to -31.3%
July	106,790	113,441	51,382	-55,408	-51.9%	-62,059	-54.7%	-	-	-	-	-	-	-	-	-	-	-	-
August	106,184	109,871	55,341	-50,842	-47.9%	-54,530	-49.6%	-	-	-	-	-	-	-	-	-	-	-	-
September	97,042	102,488	47,516	-49,527	-51.0%	-54,972	-53.6%	-	-	-	-	-	-	-	-	-	-	-	-
October	100,677	102,812	52,459	-48,218	-47.9%	-50,353	-49.0%	-	-	-	-	-	-	-	-	-	-	-	-
November	94,651	95,805	54,837	-39,814	-42.1%	-40,968	-42.8%	-	-	-	-	-	-	-	-	-	-	-	-
December	98,992	101,830	56,803	-42,189	-42.6%	-45,027	-44.2%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	280,275	286,289	274,137	-6,138	-2.2%	-12,153	-4.2%	292,489	149,883	149,883	148,691	147,527	184,211	-132,748 to -130,392	-47.4% to -46.5%	-126,609 to -124,253	-46.2% to -45.3%	-144,962 to -142,606	-49.6% to -48.8%
2Q	301,590	314,088	86,164	-215,426	-71.4%	-227,924	-72.6%	323,328	203,527	186,516	194,121	183,571	326,266	-118,019 to -98,063	-39.1% to -32.5%	97,407 to 117,364	113.0% to 136.2%	-139,757 to -119,800	-43.2% to -37.1%
3Q	310,016	325,800	154,239	-155,777	-50.2%	-171,561	-52.7%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	294,320	300,446	164,099	-130,222	-44.2%	-136,348	-45.4%	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,186,201</b>	<b>1,226,623</b>	<b>678,637</b>	<b>-507,564</b>	<b>-42.8%</b>	<b>-547,986</b>	<b>-44.7%</b>	<b>615,817</b>	<b>353,411</b>	<b>336,399</b>	<b>342,811</b>	<b>331,098</b>	<b>510,477</b>	<b>-250,767 to -228,454</b>	<b>-43.1% to -39.3%</b>	<b>-29,202 to -6,890</b>	<b>-8.1% to -1.9%</b>	<b>-284,719 to -262,406</b>	<b>-46.2% to -42.6%</b>



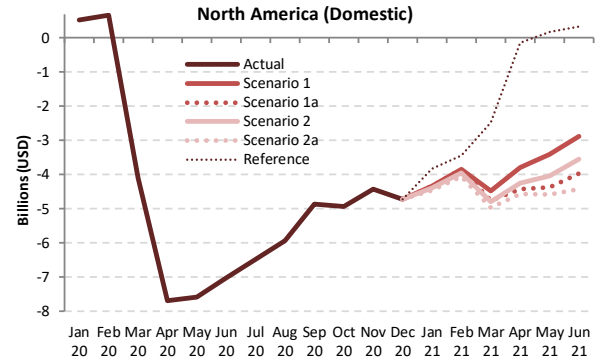
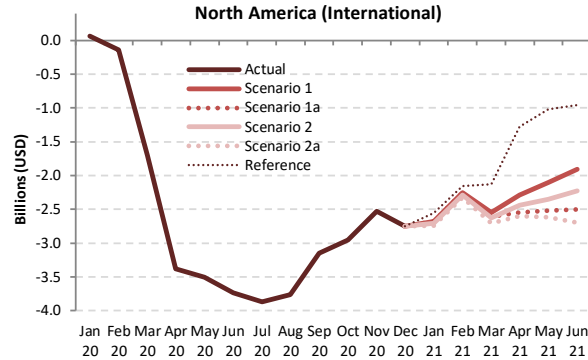
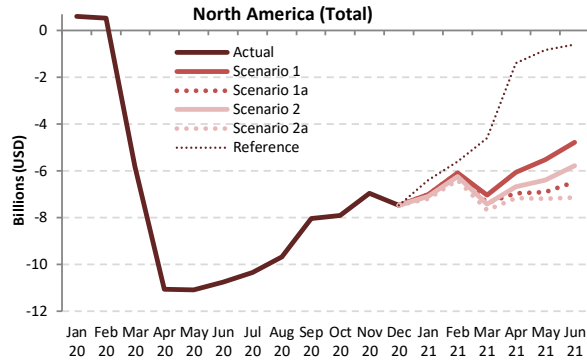


Passenger Number (thousand) - North America International + Domestic

Year	2019							2020							2021						
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline			
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1		
January	73,792	74,960	78,339	4,547	6.2%	3,379	4.5%	76,995	26,873	26,873	26,353	25,661	31,656	-48,131 to -46,918	-65.2% to -63.6%	-52,678 to -51,466	-67.2% to -65.7%	-51,334 to -50,122	-66.7% to -65.1%		
February	68,976	72,402	74,269	5,293	7.7%	1,867	2.6%	74,126	27,773	27,773	26,748	25,632	31,576	-43,345 to -41,204	-62.8% to -59.7%	-48,638 to -46,497	-65.5% to -62.6%	-48,495 to -46,354	-65.4% to -62.5%		
March	86,380	87,572	45,187	-41,194	-47.7%	-42,385	-48.4%	89,682	38,460	35,880	35,583	33,767	57,114	-52,613 to -47,920	-60.9% to -55.5%	-11,419 to -6,727	-25.3% to -14.9%	-55,915 to -51,222	-62.3% to -57.1%		
April	82,715	85,788	4,727	-77,988	-94.3%	-81,061	-94.5%	88,718	42,111	35,768	37,607	34,259	76,938	-48,456 to -40,604	-58.6% to -49.1%	29,532 to 37,384	624.8% to 790.9%	-54,459 to -46,607	-61.4% to -52.5%		
May	87,928	91,786	10,606	-77,323	-87.9%	-81,180	-88.4%	95,355	51,518	41,755	45,252	39,629	86,041	-48,300 to -36,411	-54.9% to -41.4%	29,023 to 40,912	273.7% to 385.7%	-55,727 to -43,838	-58.4% to -46.0%		
June	91,099	96,104	17,772	-73,327	-80.5%	-78,331	-81.5%	98,556	60,029	48,448	53,086	43,834	90,922	-47,266 to -31,070	-51.9% to -34.1%	26,061 to 42,256	146.6% to 237.8%	-54,722 to -38,527	-55.5% to -39.1%		
July	94,493	100,766	25,265	-69,228	-73.3%	-75,501	-74.9%	-	-	-	-	-	-	-	-	-	-	-	-		
August	91,330	94,839	27,316	-64,014	-70.1%	-67,523	-71.2%	-	-	-	-	-	-	-	-	-	-	-	-		
September	79,119	83,859	26,544	-52,576	-66.5%	-57,316	-68.3%	-	-	-	-	-	-	-	-	-	-	-	-		
October	83,797	85,904	31,227	-52,570	-62.7%	-54,677	-63.6%	-	-	-	-	-	-	-	-	-	-	-	-		
November	76,490	77,711	29,543	-46,946	-61.4%	-48,168	-62.0%	-	-	-	-	-	-	-	-	-	-	-	-		
December	84,748	87,529	34,500	-50,248	-59.3%	-53,029	-60.6%	-	-	-	-	-	-	-	-	-	-	-	-		
1Q	229,148	234,934	197,795	-31,354	-13.7%	-37,139	-15.8%	240,804	93,106	90,526	88,683	85,060	120,346	-144,089 to -136,043	-62.9% to -59.4%	-112,735 to -104,689	-57.0% to -52.9%	-155,744 to -147,698	-64.7% to -61.3%		
2Q	261,742	273,678	33,105	-228,637	-87.4%	-240,573	-87.9%	282,629	153,657	125,971	135,945	117,721	253,901	-144,021 to -108,085	-55.0% to -41.3%	84,616 to 120,552	255.6% to 364.2%	-164,908 to -128,972	-58.3% to -45.6%		
3Q	264,942	279,465	79,125	-185,817	-70.1%	-200,340	-71.7%	-	-	-	-	-	-	-	-	-	-	-	-		
4Q	245,035	251,144	95,271	-149,764	-61.1%	-155,874	-62.1%	-	-	-	-	-	-	-	-	-	-	-	-		
Total	1,000,868	1,039,221	405,295	-595,573	-59.5%	-633,925	-61.0%	523,433	246,763	216,496	224,628	202,781	374,247	-288,110 to -244,128	-58.7% to -49.7%	-28,119 to 15,863	-12.2% to 6.9%	-320,651 to -276,669	-61.3% to -52.9%		







Passenger revenue (USD, million) - North America International + Domestic																			
Year	2019							2020							2021				
	Actual	Baseline	Estimated	Compared to 2019		Compared to Baseline		Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline	
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	e	e	e	e	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1
January	10,540	10,651	11,130	591	5.6%	480	4.5%	10,900	3,521	3,521	3,449	3,348	4,154	-7,192 to -7,019	-68.2% to -66.6%	-7,782 to -7,609	-69.9% to -68.4%	-7,552 to -7,379	-69.3% to -67.7%
February	9,717	10,161	10,244	527	5.4%	83	0.8%	10,369	3,622	3,622	3,481	3,330	4,121	-6,387 to -6,095	-65.7% to -62.7%	-6,914 to -6,622	-67.5% to -64.6%	-7,039 to -6,747	-67.9% to -65.1%
March	12,058	12,183	6,265	-5,793	-48.0%	-5,918	-48.6%	12,455	5,030	4,694	4,649	4,393	7,454	-7,665 to -7,027	-63.6% to -58.3%	-1,872 to -1,235	-29.9% to -19.7%	-8,063 to -7,425	-64.7% to -59.6%
April	11,677	12,086	617	-11,060	-94.7%	-11,470	-94.9%	12,485	5,604	4,717	4,990	4,508	10,267	-7,169 to -6,072	-61.4% to -52.0%	3,891 to 4,987	630.8% to 808.6%	-7,978 to -6,881	-63.9% to -55.1%
May	12,400	12,924	1,314	-11,086	-89.4%	-11,610	-89.8%	13,405	6,883	5,506	6,013	5,205	11,554	-7,195 to -5,517	-58.0% to -44.5%	3,891 to 5,569	296.0% to 423.7%	-8,200 to -6,522	-61.2% to -48.7%
June	12,947	13,599	2,200	-10,747	-83.0%	-11,399	-83.8%	13,942	8,163	6,470	7,168	5,820	12,329	-7,127 to -4,784	-55.0% to -37.0%	3,620 to 5,963	164.5% to 271.0%	-8,122 to -5,779	-58.3% to -41.5%
July	13,500	14,320	3,151	-10,348	-76.7%	-11,169	-78.0%	-	-	-	-	-	-	-	-	-	-	-	-
August	13,126	13,619	3,447	-9,680	-73.7%	-10,172	-74.7%	-	-	-	-	-	-	-	-	-	-	-	-
September	11,365	12,003	3,346	-8,019	-70.6%	-8,657	-72.1%	-	-	-	-	-	-	-	-	-	-	-	-
October	11,827	12,037	3,933	-7,893	-66.7%	-8,104	-67.3%	-	-	-	-	-	-	-	-	-	-	-	-
November	10,714	10,812	3,754	-6,960	-65.0%	-7,057	-65.3%	-	-	-	-	-	-	-	-	-	-	-	-
December	11,920	12,226	4,456	-7,463	-62.6%	-7,770	-63.6%	-	-	-	-	-	-	-	-	-	-	-	-
1Q	32,314	32,995	27,639	-4,675	-14.5%	-5,356	-16.2%	33,724	12,174	11,837	11,578	11,070	15,728	-21,244 to -20,141	-65.7% to -62.3%	-16,569 to -15,465	-59.9% to -56.0%	-22,654 to -21,550	-67.2% to -63.9%
2Q	37,024	38,610	4,131	-32,893	-88.8%	-34,479	-89.3%	39,832	20,650	16,693	18,171	15,533	34,151	-21,491 to -16,374	-58.0% to -44.2%	11,402 to 16,519	276.0% to 399.9%	-24,300 to -19,182	-61.0% to -48.2%
3Q	37,991	39,942	9,944	-28,047	-73.8%	-29,998	-75.1%	-	-	-	-	-	-	-	-	-	-	-	-
4Q	34,460	35,075	12,144	-22,316	-64.8%	-22,931	-65.4%	-	-	-	-	-	-	-	-	-	-	-	-
Total	141,790	146,622	53,858	-87,932	-62.0%	-92,763	-63.3%	73,556	32,824	28,530	29,750	26,603	49,879	-42,735 to -36,514	-61.6% to -52.7%	-5,167 to 1,053	-16.3% to 3.3%	-46,953 to -40,733	-63.8% to -55.4%

### Passenger revenue (USD, million) - North America International

Year	2019					2020					2021										
	Actual	Baseline	Estimated	Compared to 2019	Compared to Baseline	Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline					
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	f	g	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1				
January	3,344	3,267	3,410	66	2.0%	143	4.4%	3,272	663	663	643	607	790	-2,737 to -2,681	-81.8% to -80.2%	-2,803 to -2,747	-82.2% to -80.5%	-2,665 to -2,609	-81.4% to -79.7%		
February	2,904	2,951	2,763	-141	-4.8%	-188	-6.4%	2,952	654	654	615	579	747	-2,325 to -2,250	-80.1% to -77.5%	-2,184 to -2,110	-79.1% to -76.3%	-2,373 to -2,298	-80.4% to -77.9%		
March	3,477	3,416	1,771	-1,706	-49.1%	-1,645	-48.2%	3,437	931	870	852	773	1,345	-2,704 to -2,546	-77.8% to -73.2%	-998 to -840	-56.4% to -47.4%	-2,664 to -2,506	-77.5% to -72.9%		
April	3,481	3,548	104	-3,377	-97.0%	-3,444	-97.1%	3,632	1,196	938	1,042	879	2,209	-2,603 to -2,286	-74.8% to -65.6%	774 to 1,001	740.8% to 1044.5%	-2,754 to -2,437	-75.8% to -67.1%		
May	3,611	3,711	106	-3,505	-97.1%	-3,606	-97.1%	3,807	1,505	1,090	1,265	997	2,594	-2,614 to -2,106	-72.4% to -58.3%	891 to 1,400	842.2% to 1322.6%	-2,810 to -2,301	-73.8% to -60.5%		
June	3,917	4,011	181	-3,736	-95.4%	-3,830	-95.5%	4,093	2,008	1,412	1,687	1,216	2,959	-2,700 to -1,909	-68.9% to -48.7%	1,036 to 1,827	573.3% to 1011.4%	-2,876 to -2,085	-70.3% to -50.9%		
July	4,188	4,312	317	-3,871	-92.4%	-3,995	-92.6%	-	-	-	-	-	-	-	-	-	-	-	-		
August	4,160	4,274	403	-3,757	-90.3%	-3,871	-90.6%	-	-	-	-	-	-	-	-	-	-	-	-		
September	3,528	3,648	375	-3,153	-89.4%	-3,273	-89.7%	-	-	-	-	-	-	-	-	-	-	-	-		
October	3,404	3,333	449	-2,955	-86.8%	-2,884	-86.5%	-	-	-	-	-	-	-	-	-	-	-	-		
November	3,040	2,956	511	-2,529	-83.2%	-2,445	-82.7%	-	-	-	-	-	-	-	-	-	-	-	-		
December	3,481	3,422	731	-2,750	-79.0%	-2,691	-78.6%	-	-	-	-	-	-	-	-	-	-	-	-		
1Q	9,725	9,634	7,945	-1,780	-18.3%	-1,690	-17.5%	9,661	2,248	2,187	2,110	1,959	2,883	-7,766 to -7,477	-79.9% to -76.9%	-5,986 to -5,697	-75.3% to -71.7%	-7,702 to -7,413	-79.7% to -76.7%		
2Q	11,009	11,271	391	-10,618	-96.4%	-10,880	-96.5%	11,532	4,709	3,440	3,994	3,092	7,762	-7,917 to -6,300	-71.9% to -57.2%	2,701 to 4,318	690.9% to 1104.5%	-8,440 to -6,823	-73.2% to -59.2%		
3Q	11,876	12,235	1,096	-10,780	-90.8%	-11,139	-91.0%	-	-	-	-	-	-	-	-	-	-	-	-		
4Q	9,925	9,711	1,690	-8,235	-83.0%	-8,021	-82.6%	-	-	-	-	-	-	-	-	-	-	-	-		
Total	42,535	42,851	11,122	-31,413	-73.9%	-31,729	-74.0%	21,193	6,957	5,627	6,104	5,051	10,644	-15,683 to -13,777	-75.6% to -66.4%	-3,285 to -1,378	-39.4% to -16.5%	-16,142 to -14,235	-76.2% to -67.2%		

### Passenger revenue (USD, million) - North America Domestic

Year	2019					2020					2021										
	Actual	Baseline	Estimated	Compared to 2019	Compared to Baseline	Baseline	Scenario 1	Scenario 1a	Scenario 2	Scenario 2a	Reference	Compared to 2019		Compared to 2020		Compared to Baseline					
Month	a	b	c	c-a	c/a-1	c-b	c/b-1	d	e	f	g	e-a	e/a-1	e-c	e/a-1	e-d	e/d-1				
January	7,196	7,384	7,720	524	7.3%	336	4.6%	7,628	2,858	2,858	2,806	2,741	3,363	-4,455 to -4,338	-61.9% to -60.3%	-4,979 to -4,862	-64.5% to -63.0%	-4,887 to -4,770	-64.1% to -62.5%		
February	6,813	7,210	7,481	668	9.8%	271	3.8%	7,417	2,968	2,968	2,865	2,751	3,374	-4,062 to -3,845	-59.6% to -56.4%	-4,730 to -4,512	-63.2% to -60.3%	-4,666 to -4,448	-62.9% to -60.0%		
March	8,581	8,767	4,494	-4,087	-47.6%	-4,273	-48.7%	9,019	4,099	3,824	3,797	3,620	6,109	-4,961 to -4,481	-57.8% to -52.2%	-874 to -395	-19.5% to -8.8%	-5,399 to -4,919	-59.9% to -54.5%		
April	8,195	8,538	512	-7,683	-93.7%	-8,026	-94.0%	8,853	4,408	3,779	3,948	3,629	8,058	-4,566 to -3,787	-55.7% to -46.2%	3,117 to 3,896	608.4% to 760.5%	-5,224 to -4,445	-59.0% to -50.2%		
May	8,789	9,213	1,209	-7,580	-86.2%	-8,004	-86.9%	9,599	5,378	4,415	4,748	4,208	8,961	-4,581 to -3,411	-52.1% to -38.8%	3,000 to 4,169	248.2% to 345.0%	-5,391 to -4,221	-56.2% to -44.0%		
June	9,030	9,588	2,019	-7,011	-77.6%	-7,569	-78.9%	9,849	6,155	5,058	5,481	4,603	9,370	-4,427 to -2,875	-49.0% to -31.8%	2,584 to 4,136	128.0% to 204.8%	-5,245 to -3,694	-53.3% to -37.5%		
July	9,312	10,008	2,834	-6,478	-69.6%	-7,174	-71.7%	-	-	-	-	-	-	-	-	-	-	-	-		
August	8,966	9,344	3,043	-5,923	-66.1%	-6,301	-67.4%	-	-	-	-	-	-	-	-	-	-	-	-		
September	7,838	8,355	2,971	-4,867	-62.1%	-5,384	-64.4%	-	-	-	-	-	-	-	-	-	-	-	-		
October	8,423	8,704	3,485	-4,938	-58.6%	-5,220	-60.0%	-	-	-	-	-	-	-	-	-	-	-	-		
November	7,674	7,855	3,243	-4,430	-57.7%	-4,612	-58.7%	-	-	-	-	-	-	-	-	-	-	-	-		
December	8,439	8,805	3,726	-4,713	-55.8%	-5,079	-57.7%	-	-	-	-	-	-	-	-	-	-	-	-		
1Q	22,590	23,360	19,694	-2,895	-12.8%	-3,666	-15.7%	24,063	9,925	9,650	9,468	9,111	12,845	-13,478 to -12,664	-59.7% to -56.1%	-10,583 to -9,769	-53.7% to -49.6%	-14,952 to -14,138	-62.1% to -58.8%		
2Q	26,015	27,339	3,740	-22,274	-85.6%	-23,599	-86.3%	28,301	15,941	13,252	14,178	12,441	26,389	-13,574 to -10,074	-52.2% to -38.7%	8,701 to 12,201	232.6% to 326.2%	-15,860 to -12,360	-56.0% to -43.7%		
3Q	26,116	27,707	8,848	-17,267	-66.1%	-18,859	-68.1%	-	-	-	-	-	-	-	-	-	-	-	-		
4Q	24,535	25,364	10,454	-14,081	-57.4%	-14,910	-58.8%	-	-	-	-	-	-	-	-	-	-	-	-		
Total	99,255	103,771	42,737	-56,518	-56.9%	-61,034	-58.8%	52,364	25,867	22,902	23,646	21,552	39,235	-27,052 to -22,738	-55.7% to -46.8%	-1,882 to 2,432	-8.0% to 10.4%	-30,812 to -26,497	-58.8% to -50.6%		



## Appendix A: Overview of Early Impact



# COVID-19 outbreak has impacted air traffic of China starting from late 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

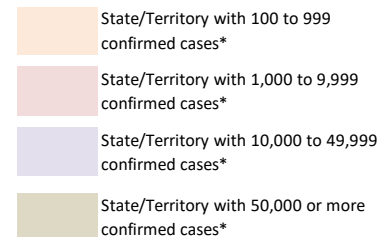


# A surge of COVID-19 confirmed cases occurred in several States by late February 2020

In February 2020, international passenger capacity reduced by 10%, mainly related to traffic from/to States experiencing an early outbreak and States deeply interconnected to China.

January 2020 International passenger seat capacity		
Country/Territory	Capacity change from originally-planned	
Russian Federation	-89,778	-1%
Italy	-65,971	-1%
Turkey	-53,262	-1%
China	-45,484	0%
Morocco	-42,684	-2%
United Arab Emirates	-31,464	0%
Iraq	-29,326	-3%
Albania	-22,080	-7%
United Kingdom	-21,888	0%
South Africa	-21,476	-1%
Iran Islamic Republic of	-20,891	-2%
France	-19,537	0%
Poland	-18,154	0%
Romania	-17,493	-1%
Japan	-16,449	0%
United States	-13,067	0%
Indonesia	-12,114	0%
Bulgaria	-10,540	-1%
India	-10,342	0%
Cambodia	-10,158	-1%
Bahamas	-9,588	-2%
Denmark	-8,942	0%
Viet Nam	-8,489	0%
Malta	-7,372	-1%
Lebanon	-7,182	-1%
Bahrain	-7,123	-1%
Uzbekistan	-6,539	-1%
Tunisia	-6,362	-1%
Switzerland	-6,235	0%
Czechia	-5,642	0%

February 2020 International passenger seat capacity		
Country/Territory	Capacity change from originally-planned	
China	-10,532,219	-61%
Hong Kong SAR of China (CN)	-2,363,320	-36%
Republic of Korea	-1,717,147	-19%
Japan	-1,592,429	-15%
Thailand	-1,452,478	-15%
Taiwan, Province of China (CN)	-1,446,686	-23%
Singapore	-807,608	-12%
Viet Nam	-731,936	-16%
Macao SAR of China (CN)	-721,489	-64%
Philippines	-646,104	-18%
United States	-620,296	-3%
Malaysia	-448,172	-8%
Indonesia	-426,102	-10%
Russian Federation	-317,890	-5%
Cambodia	-307,968	-4%
Turkey	-277,868	-21%
Italy	-268,846	-3%
United Arab Emirates	-253,548	-2%
Australia	-241,284	-5%
United Kingdom	-188,864	-1%
Iran Islamic Republic of	-169,782	-18%
France	-157,998	-1%
Myanmar	-147,487	-21%
Germany	-145,561	-1%
India	-116,823	-2%
Morocco	-108,186	-5%
Qatar	-99,338	-2%
Canada	-96,231	-1%
Lao People's Democratic Republic	-71,910	-21%
Finland	-71,413	-4%



\*: Coronavirus Disease 2019 (COVID-19) Situation Report by WHO (29 February 2020)

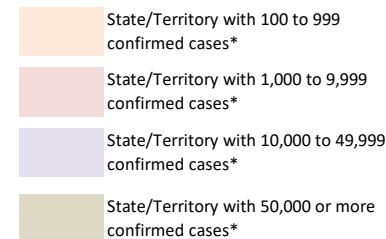
# COVID-19 Pandemic was declared and accelerating in March 2020

## March 2020 International Passenger Capacity

Country/Territory	Capacity change from originally-planned	
China	-14,841,792	-82%
Italy	-6,860,837	-60%
Republic of Korea	-6,536,917	-70%
Japan	-5,837,894	-51%
Germany	-5,771,162	-31%
Hong Kong SAR of China (CN)	-5,352,855	-77%
United Kingdom	-4,965,296	-22%
United States	-4,950,969	-19%
Thailand	-4,587,421	-46%
Taiwan, Province of China (CN)	-4,074,431	-62%
Spain	-3,792,140	-26%
United Arab Emirates	-3,400,833	-26%
Singapore	-3,297,434	-45%
France	-3,216,482	-25%
Turkey	-2,879,271	-35%
Viet Nam	-2,599,336	-55%
Malaysia	-2,500,355	-42%
India	-2,077,578	-29%
Saudi Arabia	-1,747,385	-31%
Switzerland	-1,691,017	-28%

Country/Territory	Capacity change from originally-planned	
Philippines	-1,669,456	-45%
Indonesia	-1,466,518	-34%
Netherlands	-1,292,472	-17%
Canada	-1,218,383	-16%
Austria	-1,200,864	-30%
Russian Federation	-1,177,704	-19%
Australia	-1,119,345	-25%
Portugal	-1,118,941	-26%
Belgium	-1,060,572	-31%
Qatar	-1,041,439	-21%
Denmark	-980,211	-28%
Israel	-972,061	-44%
Poland	-967,520	-24%
Macao SAR of China (CN)	-954,453	-80%
Egypt	-818,043	-28%
Morocco	-762,145	-31%
Sweden	-761,425	-24%
Ireland	-733,678	-21%
Greece	-635,039	-34%
Czechia	-610,048	-37%

In March 2020, global international passenger capacity **reduced by 48%**, with significant reduction not only in States experiencing an early outbreak but also worldwide.



\*: Coronavirus Disease 2019 (COVID-19) Situation Report by WHO (31 March 2020)

# The world reached 3 million confirmed COVID-19 cases in April 2020

## April 2020 International Passenger Capacity

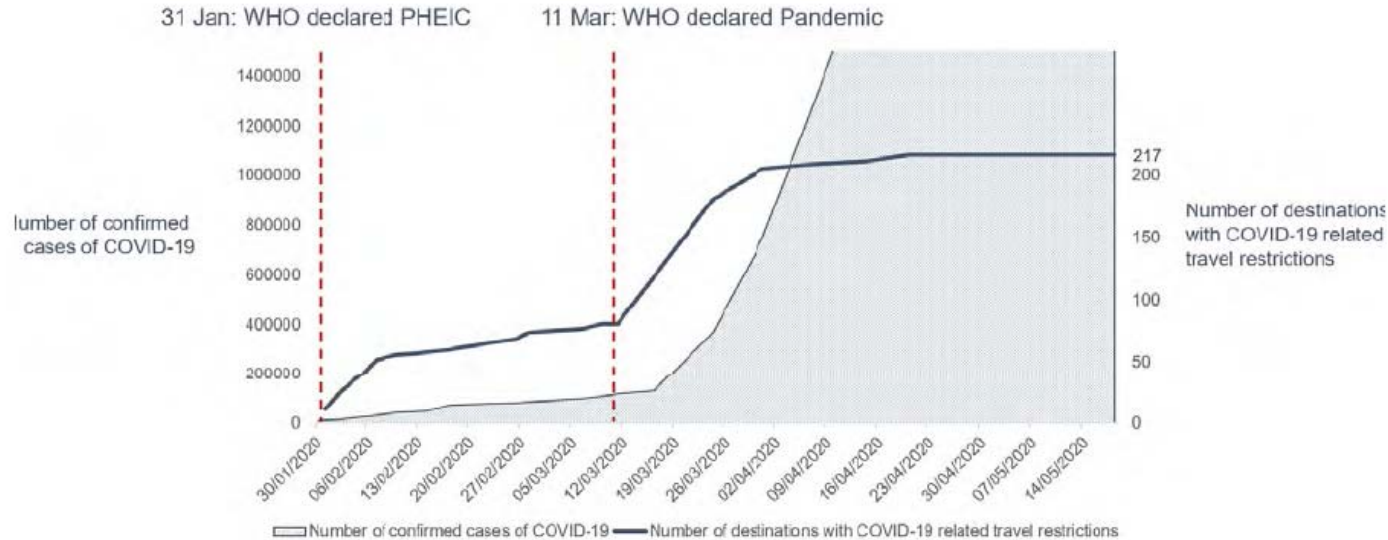
Country/Territory	Capacity change from originally-planned	Country/Territory	Capacity change from originally-planned
United States	-22,976,621 -88%	Malaysia	-4,959,606 -85%
United Kingdom	-22,345,210 -90%	Portugal	-4,913,803 -95%
Germany	-19,374,444 -92%	Saudi Arabia	-4,193,572 -77%
Spain	-18,041,897 -94%	Australia	-4,115,805 -92%
China	-16,683,876 -95%	Mexico	-4,104,882 -78%
France	-13,480,021 -91%	Austria	-3,812,866 -91%
Italy	-12,464,502 -94%	Qatar	-3,760,492 -80%
United Arab Emirates	-11,009,896 -89%	Indonesia	-3,723,583 -87%
Japan	-9,501,833 -88%	Viet Nam	-3,681,731 -89%
Turkey	-8,798,224 -94%	Ireland	-3,595,318 -92%
Thailand	-8,441,105 -94%	Poland	-3,449,632 -79%
Republic of Korea	-7,960,525 -86%	Denmark	-3,417,729 -93%
Hong Kong SAR of China (CN)	-7,122,206 -93%	Belgium	-3,323,135 -87%
Netherlands	-6,960,693 -89%	Greece	-3,078,774 -94%
Singapore	-6,596,279 -93%	Philippines	-2,993,741 -86%
Canada	-6,288,656 -90%	Sweden	-2,941,579 -89%
India	-6,286,458 -89%	Norway	-2,476,519 -90%
Switzerland	-5,990,424 -93%	Egypt	-2,248,437 -78%
Russian Federation	-5,747,918 -87%	Brazil	-2,214,850 -92%
Taiwan, Province of China (CN)	-5,400,277 -85%	Israel	-2,196,238 -91%

In April 2020, global international passenger capacity so far experienced by **unprecedented 94% reduction** (estimated)

- State/Territory with 100 to 999 confirmed cases\*
- State/Territory with 1,000 to 9,999 confirmed cases\*
- State/Territory with 10,000 to 49,999 confirmed cases\*
- State/Territory with 50,000 or more confirmed cases\*

\*: Coronavirus Disease 2019 (COVID-19) Situation Report by WHO (30 April 2020)

## Number of confirmed cases and destinations with COVID-19-related travel restrictions

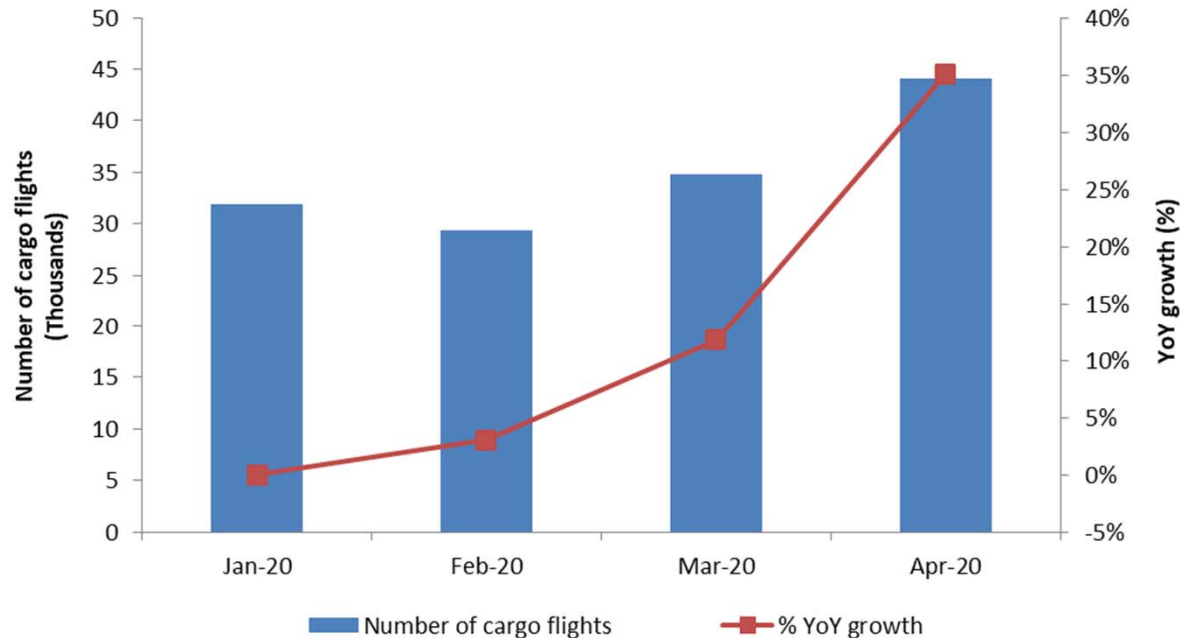


As of 18 May 2020, 100% of all world destinations have travel restrictions. About 185 (85%) destinations have completely or partially closed their borders, while 11 destinations (5%) have suspended completely or partially international flights.

<https://www.unwto.org/news/covid-19-response-travel-restrictions>



**In contrast to the fall in passenger traffic, cargo flights surged with the increased cargo-only operations using passenger aircraft**





## Appendix B: Scenario Assumptions in Detail

(International and domestic)	<b>Baseline (Originally-planned, business as usual)</b>	
	Seat capacity	Passenger load factor
January to March 2020	Airlines' winter schedules filed with OAG as of 6 January 2020	Forecasted 2020 load factor by region/route group, based on ICAO long-term traffic forecasts (LTF), which was adjusted monthly by difference between 2019 actual monthly results (ICAO, IATA) and 2019 LTF forecasted load factor
April to September 2020	Maximum number of seats taken from airlines' summer schedules filed with OAG during the period from 6 January 2020 to 20 April 2020	
October to December 2020	Using 2019 winter schedule as the base, and applying the pre-COVID-19 trend line growth, i.e. growth rate of 2019/2018 as proxy	
January to June 2021	Using "2020 Baseline" as the base, and applying the baseline growth of 2020/2019, or growth rate of 2019/2018, whichever is smaller	Forecasted 2021 load factor by region/route group, based on ICAO long-term traffic forecasts (LTF), which was adjusted monthly by difference between 2019 actual monthly results (ICAO, IATA) and 2019 LTF forecasted load factor

(International and domestic)	<b>Scenarios 1/1a, 2/2a and Reference</b>	
	Seat capacity	Passenger load factor
January to November 2020	Actual capacity based on ICAO ADS-B data	Actual estimated results by region/route group
December 2020		Average 36 (international) and 16 (domestic) percentage points lower than December 2019 load factor with adjustment of GDP impact by region/route group
January to June 2021	Scenarios 1/1a & 2/2a: Application of monthly "base percentage" which incorporates impacts of intra-/inter-regional share difference (2019) Reference: Most recent airlines' schedules filed with OAG	Application of "base percentage" which incorporates GDP impact by region/route group

### International (world average)

Seat capacity	Dec	Jan	Feb	Mar	Apr	May	Jun
Reference	-74%	-74%	-75%	-53%	-24%	-21%	-23%
Scenario 1	-74%	-77%	-77%	-71%	-63%	-53%	-40%
Scenario 1a	-74%	-77%	-77%	-71%	-69%	-65%	-57%
Scenario 2	-74%	-77%	-77%	-72%	-66%	-59%	-49%
Scenario 2a	-74%	-78%	-77%	-73%	-69%	-65%	-60%

Load factor	Dec	Jan	Feb	Mar	Apr	May	Jun
Reference	-36%	-30%	-28%	-25%	-21%	-17%	-15%
Scenario 1	-36%	-33%	-30%	-27%	-23%	-20%	-17%
Scenario 1a	-36%	-33%	-30%	-30%	-30%	-27%	-25%
Scenario 2	-36%	-34%	-32%	-30%	-28%	-25%	-21%
Scenario 2a	-36%	-36%	-34%	-34%	-34%	-32%	-31%

### Domestic (world average)

Seat capacity	Dec	Jan	Feb	Mar	Apr	May	Jun
Reference	-29%	-29%	-26%	-9%	-11%	-12%	-13%
Scenario 1	-29%	-39%	-38%	-36%	-34%	-29%	-24%
Scenario 1a	-29%	-39%	-38%	-36%	-36%	-34%	-30%
Scenario 2	-29%	-39%	-39%	-37%	-35%	-32%	-27%
Scenario 2a	-29%	-39%	-40%	-37%	-36%	-34%	-32%

Load factor	Dec	Jan	Feb	Mar	Apr	May	Jun
Reference	-16%	-12%	-10%	-9%	-7%	-6%	-4%
Scenario 1	-16%	-14%	-13%	-11%	-9%	-8%	-7%
Scenario 1a	-16%	-14%	-13%	-15%	-15%	-13%	-13%
Scenario 2	-16%	-15%	-14%	-14%	-13%	-12%	-11%
Scenario 2a	-16%	-16%	-15%	-16%	-16%	-15%	-15%

- Base percentages of seat capacity already take into consideration short-/long-haul (intra-/inter-region) impacts and will be applied to Baseline level of seat capacity
- Base percentages of load factor already take into consideration economic (GDP) factors and will be added to 2019 load factor %



- **Seat capacity (seats available for sale):** OAG airlines schedule data; Route Online; airline websites and ICAO ADS-B operational data
- **Load factor (RPKs/ASKs):** ICAO long-term traffic forecasts (LTF); ICAO statistical reporting forms; IATA economics data; and airline news release
- **Historical passenger traffic (including ASKs, RPKs, passenger numbers and operating revenues):** ICO Annual Report of the Council; and ICAO statistical reporting forms
- **Yield (passenger revenues/RPK):** ICAO revenue-cost analysis of airlines (RCA); and ICAO-ICM Marketing Information Data Transfer (MIDT passenger origin-destination)
- **Macroeconomic factors (GDP impact):** Income elasticity of demand estimated for ICAO LTF; and IMF and World Bank economic outlook data

Note 1: A list of route group is shown in **Appendix C**.

Note 2: Average air fares (i.e. passenger yield multiplied by average trip distance) for each region/route group are used to estimate gross passenger operating revenues.



## Appendix C: Estimated Results at Route Group Level

More detailed break-down of the information is available in the COVID-19 Air Traffic Dashboard (<https://www.icao.int/sustainability/Pages/COVID-19-Air-Traffic-Dashboard.aspx>).

In case of any discrepancy and inconsistency of information contained in this Appendix and the Dashboard, the Appendix information shall prevail as the Dashboard uses non-cleaned data.



# Estimated results by route group for Jan-Nov 2020: Seat capacity

Route Group	DOM/INT	Seat capacity (compared to Baseline)											Seat capacity (compared to 2019)										
		Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20
Africa	Domestic	-4.3%	-1.6%	-31.5%	-96.6%	-95.4%	-90.3%	-77.3%	-68.4%	-66.4%	-54.7%	-50.2%	0.4%	5.5%	-28.6%	-96.5%	-95.3%	-90.0%	-76.8%	-68.3%	-65.9%	-53.4%	-47.9%
Africa - Asia/Pacific	International	5.2%	-19.9%	-45.8%	-94.8%	-90.8%	-90.1%	-89.6%	-87.5%	-87.2%	-85.5%	-85.5%	18.1%	-2.6%	-37.9%	-94.2%	-89.9%	-89.3%	-89.1%	-87.1%	-86.8%	-85.0%	-84.2%
Africa - Middle East	International	-5.2%	-5.9%	-55.8%	-95.9%	-94.5%	-91.4%	-81.7%	-79.5%	-71.3%	-58.3%	-59.5%	7.2%	9.6%	-50.1%	-95.6%	-94.1%	-91.2%	-81.3%	-79.6%	-69.2%	-56.4%	-54.9%
Africa - North America	International	-7.9%	-3.7%	-26.6%	-87.5%	-87.5%	-87.2%	-79.1%	-78.6%	-72.8%	-61.0%	-51.3%	8.8%	22.8%	-11.8%	-86.0%	-85.5%	-85.8%	-77.3%	-76.3%	-69.3%	-55.8%	-46.9%
Africa & Middle East - Central America/Caribbean	International													38.3%									
Africa & Middle East - South America	International	0.4%	2.4%	-24.6%	-84.1%	-89.6%	-86.4%	-78.1%	-71.5%	-65.5%	-62.6%	-68.4%	-4.9%	1.9%	-26.8%	-81.8%	-87.7%	-84.8%	-77.0%	-69.9%	-64.2%	-64.4%	-70.3%
Central America/Caribbean	Domestic	-2.1%	-2.3%	-20.4%	-83.9%	-85.9%	-71.7%	-54.4%	-41.8%	-34.5%	-33.5%	-28.7%	9.2%	11.7%	-12.0%	-82.8%	-85.1%	-70.0%	-52.4%	-41.8%	-30.2%	-26.0%	-21.9%
Central America/Caribbean - Europe	International	-0.2%	1.2%	-18.7%	-94.6%	-91.5%	-89.2%	-78.0%	-72.0%	-73.7%	-62.8%	-69.8%	-1.0%	3.5%	-21.0%	-94.4%	-91.2%	-88.9%	-76.9%	-70.7%	-73.4%	-63.5%	-69.9%
Central America/Caribbean - North America	International	2.4%	2.2%	-22.2%	-91.5%	-91.7%	-87.4%	-69.9%	-65.0%	-58.6%	-44.3%	-37.2%	0.0%	3.9%	-24.4%	-91.5%	-91.5%	-87.4%	-69.7%	-64.9%	-57.5%	-45.9%	-39.0%
Central America/Caribbean - South America	International	2.7%	2.7%	-25.7%	-96.6%	-94.8%	-94.7%	-95.3%	-93.8%	-95.9%	-87.8%	-77.2%	0.5%	0.6%	-28.4%	-96.4%	-94.5%	-94.4%	-95.2%	-93.7%	-95.7%	-88.0%	-77.1%
China	Domestic	-9.9%	-75.4%	-60.1%	-55.4%	-36.7%	-24.7%	-18.5%	-8.9%	-5.1%	1.8%	2.5%	-3.7%	-73.4%	-58.0%	-55.7%	-37.2%	-25.2%	-19.0%	-9.6%	-5.7%	6.8%	5.9%
China - Europe	International	2.6%	-51.8%	-74.6%	-93.2%	-91.0%	-92.2%	-91.9%	-91.5%	-89.9%	-88.9%	-87.4%	4.0%	-48.0%	-73.1%	-93.2%	-91.1%	-92.4%	-91.4%	-91.1%	-89.4%	-88.4%	-86.9%
China - Middle East	International	2.7%	-56.2%	-77.1%	-91.9%	-95.8%	-82.8%	-78.5%	-77.2%	-80.1%	-80.9%	-86.0%	3.8%	-56.4%	-77.1%	-91.8%	-95.6%	-82.6%	-79.0%	-77.7%	-79.7%	-80.8%	-85.8%
China - North America	International	0.7%	-46.2%	-67.2%	-92.6%	-87.8%	-90.5%	-87.5%	-89.9%	-88.8%	-86.3%	-83.3%	-5.6%	-48.2%	-70.1%	-92.8%	-88.1%	-90.7%	-87.8%	-90.1%	-89.0%	-87.2%	-84.4%
China & South West Asia - North Asia	International	-0.1%	-43.3%	-84.2%	-89.9%	-88.9%	-91.9%	-90.0%	-89.5%	-88.8%	-90.8%	-94.1%	21.7%	-31.8%	-81.5%	-89.4%	-88.6%	-91.5%	-89.4%	-89.1%	-88.5%	-89.6%	-93.0%
China & South West Asia - Pacific South East Asia	International	-1.5%	-47.1%	-71.9%	-91.2%	-90.7%	-93.2%	-89.8%	-91.2%	-90.2%	-90.9%	-91.5%	6.7%	-45.6%	-71.3%	-91.2%	-90.7%	-93.2%	-89.9%	-91.1%	-90.3%	-90.6%	-91.1%
Europe	Domestic	3.2%	2.4%	-30.9%	-88.0%	-86.9%	-68.0%	-37.8%	-22.7%	-30.5%	-32.5%	-46.9%	1.5%	1.8%	-32.2%	-88.1%	-87.0%	-68.3%	-38.2%	-23.2%	-31.0%	-33.7%	-47.8%
Europe - Middle East	International	1.5%	0.2%	-43.5%	-89.7%	-89.6%	-84.7%	-81.6%	-79.1%	-73.9%	-73.6%	-74.5%	4.9%	6.1%	-42.6%	-89.3%	-88.5%	-84.8%	-81.2%	-78.9%	-74.3%	-72.7%	-73.7%
Europe - North Africa	International	2.6%	0.9%	-41.0%	-97.9%	-96.8%	-95.7%	-76.2%	-71.3%	-76.0%	-73.5%	-75.1%	4.0%	7.9%	-41.0%	-97.7%	-96.7%	-95.1%	-74.6%	-69.7%	-74.9%	-73.1%	-75.1%
Europe - North America	International	3.8%	2.3%	-35.9%	-91.4%	-93.6%	-91.6%	-87.2%	-82.8%	-80.8%	-76.3%	-73.3%	0.4%	4.1%	-36.2%	-91.3%	-93.5%	-91.4%	-87.0%	-82.5%	-80.4%	-76.9%	-74.1%
Europe - North Asia	International	5.6%	2.2%	-43.4%	-90.0%	-90.9%	-88.8%	-84.8%	-82.2%	-83.1%	-79.7%	-76.7%	6.6%	6.4%	-41.9%	-89.4%	-90.4%	-88.3%	-83.7%	-80.8%	-81.6%	-78.9%	-76.3%
Europe - Pacific South East Asia	International	-2.6%	0.1%	-13.8%	-91.7%	-91.1%	-90.7%	-89.6%	-86.1%	-84.1%	-84.0%	-85.7%	5.5%	6.7%	-18.5%	-91.5%	-90.8%	-90.4%	-89.3%	-85.7%	-84.3%	-83.0%	-84.4%
Europe - South America	International	-4.9%	-4.8%	-36.7%	-95.7%	-93.4%	-90.4%	-85.3%	-82.6%	-79.6%	-77.8%	-72.2%	-1.4%	0.9%	-35.8%	-95.5%	-93.3%	-90.2%	-84.9%	-82.0%	-78.6%	-74.8%	-70.6%
Europe - South West Asia	International	1.8%	2.7%	-36.4%	-90.2%	-88.8%	-90.7%	-86.6%	-79.4%	-67.9%	-62.9%	-64.5%	-8.3%	-4.1%	-43.0%	-90.2%	-88.1%	-89.8%	-85.6%	-78.1%	-66.2%	-63.7%	-66.7%
Europe - Sub Saharan Africa	International	0.7%	0.4%	-28.1%	-90.6%	-91.3%	-87.3%	-78.3%	-68.4%	-60.2%	-50.0%	-53.5%	1.1%	5.2%	-27.5%	-90.6%	-90.9%	-87.0%	-78.1%	-68.2%	-59.5%	-49.7%	-54.0%
Intra Africa	International	-9.7%	-10.1%	-44.0%	-95.4%	-94.3%	-91.6%	-89.0%	-81.7%	-75.3%	-65.6%	-59.2%	1.5%	5.3%	-36.4%	-95.0%	-93.4%	-90.7%	-87.9%	-79.8%	-72.7%	-61.6%	-54.1%



# Estimated results by route group for Jan-Nov 2020: Seat capacity

Route Group	DOM/INT	Seat capacity (compared to Baseline)											Seat capacity (compared to 2019)										
		Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20
Intra Central America/Caribbean	International	5.2%	1.4%	-29.1%	-90.0%	-88.4%	-82.4%	-79.4%	-78.2%	-80.5%	-75.5%	-69.5%	4.0%	3.9%	-30.3%	-90.0%	-88.6%	-82.6%	-79.9%	-78.8%	-80.4%	-76.0%	-68.7%
Intra China & South West Asia	International	-9.6%	-60.5%	-78.8%	-89.0%	-87.1%	-90.2%	-88.3%	-88.3%	-86.0%	-83.9%	-83.7%	-2.0%	-57.0%	-76.9%	-87.7%	-85.4%	-89.0%	-86.8%	-86.9%	-84.4%	-82.4%	-82.7%
Intra Europe	International	-1.6%	-3.0%	-46.1%	-96.4%	-95.6%	-90.6%	-68.0%	-53.7%	-62.4%	-66.8%	-78.4%	-0.6%	3.4%	-43.0%	-96.3%	-95.6%	-90.3%	-67.1%	-52.7%	-61.5%	-66.9%	-78.4%
Intra Middle East	International	-2.9%	-4.4%	-67.6%	-94.8%	-94.8%	-93.1%	-90.2%	-87.0%	-83.2%	-75.9%	-69.9%	0.3%	0.6%	-66.4%	-94.5%	-94.1%	-92.8%	-89.8%	-86.6%	-82.5%	-75.5%	-71.3%
Intra North America	International	2.7%	2.7%	-23.6%	-93.4%	-96.9%	-95.5%	-92.0%	-92.9%	-93.7%	-92.9%	-90.4%	-5.2%	-1.7%	-29.2%	-93.4%	-96.9%	-95.4%	-91.8%	-92.8%	-93.7%	-93.0%	-90.6%
Intra North Asia	International	-1.5%	-2.0%	-78.6%	-96.4%	-96.2%	-96.1%	-96.1%	-96.0%	-94.6%	-90.0%	-85.0%	-32.3%	-30.9%	-85.0%	-96.5%	-96.3%	-96.2%	-96.1%	-95.9%	-94.0%	-92.5%	-90.4%
Intra Pacific South East Asia	International	-0.6%	-4.8%	-45.3%	-94.9%	-96.0%	-95.7%	-94.9%	-93.8%	-94.2%	-93.6%	-93.5%	7.1%	2.0%	-42.7%	-94.7%	-95.8%	-95.6%	-94.8%	-93.6%	-94.0%	-93.5%	-93.2%
Intra South America	International	-8.9%	-0.6%	-37.0%	-96.7%	-95.8%	-95.7%	-96.6%	-96.7%	-96.2%	-89.9%	-82.9%	-9.5%	2.5%	-34.8%	-96.4%	-95.3%	-95.1%	-96.3%	-96.2%	-95.7%	-89.7%	-83.4%
Latin America/Caribbean - China	International	2.7%									-88.9%	-100.0%	-66.0%	-100.0%	-100.0%	-100.0%	-100.0%	-100.0%	-97.6%	-97.5%	-100.0%	-92.3%	-100.0%
Latin America/Caribbean - North Asia & Pacific South East Asia	International	2.7%	0.9%	-17.4%	-79.4%	-87.0%	-88.3%	-83.7%	-86.2%	-87.1%	-81.3%	-83.9%	2.0%	0.7%	-19.3%	-77.8%	-85.2%	-86.6%	-82.0%	-84.6%	-85.2%	-82.4%	-84.4%
Middle East	Domestic	-9.4%	5.7%	-37.7%	-95.6%	-94.1%	-74.4%	-61.9%	-51.1%	-47.0%	-30.2%	-20.1%	-15.5%	2.0%	-42.2%	-95.6%	-94.1%	-74.6%	-62.2%	-51.4%	-47.4%	-37.6%	-28.9%
Middle East - North America	International	2.4%	2.4%	-27.6%	-90.4%	-92.9%	-76.2%	-76.1%	-69.4%	-64.6%	-60.0%	-58.6%	4.8%	6.5%	-26.2%	-90.1%	-92.5%	-75.8%	-75.9%	-68.6%	-63.7%	-60.7%	-58.2%
Middle East - North Asia & Pacific South East Asia	International	-0.8%	-1.6%	-35.7%	-82.5%	-85.8%	-76.6%	-72.9%	-69.8%	-69.4%	-70.4%	-70.7%	-0.5%	3.4%	-35.0%	-81.4%	-83.8%	-74.8%	-72.5%	-69.2%	-68.4%	-69.8%	-70.9%
Middle East - South West Asia	International	-2.4%	-0.9%	-43.7%	-96.6%	-93.5%	-82.8%	-73.4%	-71.6%	-65.4%	-63.0%	-59.1%	2.9%	9.5%	-39.7%	-96.3%	-92.7%	-81.3%	-71.7%	-70.4%	-63.9%	-61.2%	-56.4%
North America	Domestic	2.5%	2.7%	-13.9%	-66.8%	-73.6%	-66.3%	-49.2%	-74.0%	-49.1%	-45.1%	-38.9%	4.8%	8.3%	-12.4%	-65.6%	-72.5%	-64.3%	-45.6%	-41.5%	-46.0%	-43.5%	-37.7%
North America - North Asia	International	5.7%	2.7%	-26.8%	-85.4%	-87.0%	-83.0%	-76.7%	-73.6%	-72.4%	-69.7%	-67.6%	6.6%	5.0%	-26.7%	-84.8%	-86.2%	-81.9%	-75.5%	-72.8%	-71.2%	-69.9%	-67.8%
North America - Pacific South East Asia	International	5.7%	2.7%	-19.6%	-88.9%	-87.1%	-86.3%	-83.1%	-79.6%	-81.4%	-83.8%	-81.7%	9.3%	10.8%	-18.2%	-88.8%	-86.8%	-86.3%	-82.8%	-79.5%	-80.7%	-83.3%	-82.0%
North America - South America	International	2.6%	2.7%	-29.2%	-94.2%	-94.9%	-94.6%	-93.0%	-90.5%	-84.9%	-70.2%	-55.5%	-8.0%	-2.8%	-34.1%	-94.1%	-94.8%	-94.3%	-92.5%	-89.9%	-84.1%	-73.1%	-61.1%
North America - South West Asia	International	1.4%	2.6%	-29.9%	-92.1%	-88.3%	-94.8%	-80.2%	-56.3%	-40.8%	-24.8%	-30.7%	20.4%	24.4%	-14.9%	-88.7%	-83.0%	-92.4%	-63.1%	-20.0%	-13.7%	-19.6%	-26.7%
North Asia	Domestic	1.0%	-1.8%	-18.7%	-54.6%	-68.8%	-57.8%	-38.7%	-23.5%	-46.9%	-36.7%	-27.0%	3.1%	2.3%	-18.5%	-54.5%	-68.0%	-57.3%	-37.8%	-23.7%	-46.3%	-35.5%	-25.4%
North Asia - Pacific South East Asia	International	0.5%	-6.9%	-63.3%	-89.0%	-88.8%	-86.9%	-87.3%	-89.5%	-86.3%	-87.2%	-86.7%	15.9%	9.0%	-59.9%	-88.9%	-88.6%	-86.8%	-87.2%	-88.2%	-86.4%	-85.4%	-84.7%
Pacific South East Asia	Domestic	-4.3%	-5.2%	-28.3%	-87.8%	-84.2%	-70.8%	-57.7%	-64.9%	-59.1%	-44.6%	-41.1%	1.3%	3.1%	-24.3%	-87.2%	-83.2%	-69.5%	-54.6%	-61.9%	-55.3%	-45.8%	-40.9%
South America	Domestic	2.0%	1.7%	-32.6%	-94.2%	-93.2%	-89.7%	-84.9%	-80.0%	-70.8%	-56.5%	-46.6%	3.2%	5.6%	-28.5%	-93.9%	-92.8%	-88.8%	-84.2%	-79.1%	-69.7%	-55.7%	-45.9%
South West Asia	Domestic	-3.8%	2.2%	-26.2%	-98.7%	-94.0%	-74.8%	-73.4%	-67.9%	-55.1%	-47.1%	-40.7%	0.2%	6.6%	-23.0%	-98.7%	-93.8%	-73.7%	-72.3%	-66.5%	-53.2%	-45.2%	-38.2%
<b>Domestic</b>		-2.0%	-17.3%	-30.7%	-73.6%	-71.8%	-60.7%	-46.3%	-39.4%	-40.3%	-33.2%	-30.7%	1.3%	-12.7%	-28.6%	-73.0%	-71.0%	-59.4%	-44.4%	-37.9%	-38.3%	-31.8%	-29.5%
<b>International</b>		-0.8%	-10.1%	-47.9%	-93.7%	-93.3%	-90.3%	-78.5%	-71.8%	-73.6%	-73.7%	-76.7%	2.0%	-4.9%	-46.2%	-93.5%	-93.1%	-90.0%	-77.8%	-70.9%	-72.8%	-73.2%	-76.3%
<b>Total</b>		-1.6%	-14.4%	-37.7%	-82.1%	-80.9%	-73.6%	-60.3%	-53.6%	-54.6%	-50.1%	-49.0%	1.6%	-9.6%	-35.7%	-81.6%	-80.3%	-72.7%	-58.9%	-52.3%	-53.2%	-49.1%	-48.1%





# Estimated results by route group for Jan-Nov 2020: Passenger number

Route Group	DOM/INT	Scheduled passenger (thousand, compared to Baseline)											Scheduled passenger (thousand, compared to 2019)										
		Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20
Africa	Domestic	-213	-250	-1,614	-3,437	-3,104	-3,157	-3,150	-2,870	-2,750	-2,384	-2,335	-41	-19	-1,466	-3,370	-2,990	-3,036	-3,070	-2,861	-2,688	-2,278	-2,173
Africa - Asia/Pacific	International	19	-92	-203	-356	-337	-343	-359	-360	-326	-321	-344	61	-31	-155	-316	-304	-315	-342	-346	-315	-307	-310
Africa - Middle East	International	-50	-182	-1,591	-2,563	-2,507	-2,649	-2,714	-2,924	-2,165	-1,670	-1,789	264	152	-1,295	-2,328	-2,291	-2,544	-2,643	-2,916	-1,981	-1,558	-1,546
Africa - North America	International	-15	-14	-77	-183	-182	-231	-259	-272	-204	-154	-126	17	22	-44	-162	-156	-205	-236	-242	-176	-129	-110
Africa & Middle East - Central America/Caribbean	International	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Africa & Middle East - South America	International	5	1	-43	-113	-110	-107	-110	-111	-93	-82	-84	-2	0	-47	-98	-92	-96	-105	-104	-89	-88	-90
Central America/Caribbean	Domestic	-83	-139	-1,641	-4,325	-4,461	-3,869	-3,481	-2,509	-1,610	-1,783	-1,533	420	427	-1,181	-4,020	-4,191	-3,582	-3,254	-2,502	-1,331	-1,268	-1,093
Central America/Caribbean - Europe	International	39	-4	-516	-1,397	-1,171	-1,199	-1,297	-1,239	-1,009	-906	-1,094	30	29	-554	-1,344	-1,130	-1,158	-1,223	-1,173	-995	-925	-1,096
Central America/Caribbean - North America	International	274	-14	-3,625	-7,604	-7,011	-7,223	-7,213	-6,354	-4,422	-3,975	-4,198	125	148	-3,833	-7,510	-6,824	-7,187	-7,102	-6,283	-4,255	-4,105	-4,355
Central America/Caribbean - South America	International	43	21	-455	-1,171	-1,228	-1,176	-1,230	-1,189	-1,140	-1,051	-984	16	-1	-498	-1,103	-1,160	-1,110	-1,206	-1,159	-1,091	-1,063	-977
China	Domestic	-8,291	-45,936	-36,511	-30,434	-23,398	-18,296	-14,857	-10,525	-4,207	-2,847	-3,338	-4,818	-41,765	-33,812	-30,593	-23,562	-18,456	-15,033	-10,706	-4,370	-171	-1,634
China - Europe	International	65	-952	-1,520	-1,973	-1,986	-2,069	-2,451	-2,442	-2,202	-2,094	-1,737	93	-829	-1,412	-1,959	-1,990	-2,124	-2,314	-2,337	-2,091	-2,007	-1,661
China - Middle East	International	38	-290	-453	-573	-553	-529	-565	-567	-537	-527	-526	45	-291	-451	-561	-530	-520	-579	-579	-523	-524	-514
China - North America	International	17	-698	-1,090	-1,510	-1,534	-1,576	-1,608	-1,674	-1,427	-1,362	-1,207	-82	-747	-1,228	-1,552	-1,577	-1,620	-1,654	-1,721	-1,458	-1,465	-1,298
China & South West Asia - North Asia	International	-37	-3,354	-5,797	-5,764	-5,702	-5,872	-6,287	-6,304	-5,653	-6,685	-7,031	1,222	-2,268	-4,836	-5,500	-5,497	-5,545	-5,921	-6,011	-5,487	-5,825	-5,936
China & South West Asia - Pacific South East Asia	International	-223	-5,407	-7,839	-8,923	-8,767	-8,893	-9,306	-9,632	-8,473	-9,247	-9,278	660	-5,086	-7,592	-8,907	-8,701	-8,829	-9,302	-9,493	-8,466	-8,919	-8,737
Europe	Domestic	774	94	-11,287	-22,971	-24,062	-20,690	-12,658	-7,192	-9,441	-10,924	-13,164	524	85	-11,610	-22,936	-24,091	-20,721	-12,690	-7,224	-9,471	-11,215	-13,424
Europe - Middle East	International	415	-62	-3,851	-7,196	-6,652	-6,996	-8,270	-8,380	-6,391	-6,465	-6,038	649	295	-3,727	-6,932	-5,953	-7,066	-8,063	-8,304	-6,503	-6,200	-5,835
Europe - North Africa	International	128	-52	-1,732	-3,912	-3,090	-4,242	-4,132	-4,078	-3,577	-3,130	-2,755	198	166	-1,703	-3,557	-2,995	-3,664	-3,792	-3,778	-3,361	-3,045	-2,712
Europe - North America	International	344	27	-3,093	-7,159	-8,377	-9,253	-9,676	-9,441	-8,324	-6,828	-4,885	166	113	-3,120	-7,037	-8,190	-9,084	-9,493	-9,252	-8,088	-7,025	-5,042
Europe - North Asia	International	62	-55	-544	-1,064	-1,088	-1,117	-1,188	-1,188	-1,098	-1,017	-816	72	-21	-518	-1,001	-1,034	-1,071	-1,098	-1,094	-1,001	-970	-799
Europe - Pacific South East Asia	International	-21	-150	-568	-1,386	-1,252	-1,233	-1,331	-1,329	-1,159	-1,375	-1,589	119	-45	-657	-1,344	-1,209	-1,187	-1,286	-1,288	-1,167	-1,285	-1,440
Europe - South America	International	-38	-77	-665	-1,328	-1,331	-1,338	-1,395	-1,362	-1,226	-1,313	-1,134	14	-3	-641	-1,282	-1,295	-1,300	-1,344	-1,300	-1,156	-1,129	-1,054
Europe - South West Asia	International	65	-69	-952	-1,782	-1,749	-1,839	-1,913	-1,821	-1,546	-1,476	-1,440	-131	-187	-1,161	-1,769	-1,634	-1,663	-1,764	-1,701	-1,445	-1,512	-1,548
Europe - Sub Saharan Africa	International	41	-43	-732	-1,543	-1,482	-1,492	-1,570	-1,479	-1,266	-1,181	-1,237	50	31	-717	-1,538	-1,420	-1,451	-1,548	-1,465	-1,235	-1,170	-1,255
Intra Africa	International	-234	-335	-1,265	-2,276	-2,239	-2,244	-2,429	-2,420	-2,085	-1,815	-1,707	40	-14	-972	-2,051	-1,933	-2,004	-2,177	-2,161	-1,856	-1,563	-1,445



# Estimated results by route group for Jan-Nov 2020: Passenger number

Route Group	DOM/INT	Scheduled passenger (thousand, compared to Baseline)											Scheduled passenger (thousand, compared to 2019)										
		Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20
Intra Central America/Caribbean	International	78	2	-571	-1,257	-1,319	-1,227	-1,257	-1,229	-1,161	-1,107	-1,095	68	37	-590	-1,255	-1,330	-1,236	-1,288	-1,261	-1,149	-1,129	-1,053
Intra China & South West Asia	International	-475	-2,946	-3,919	-4,492	-4,401	-4,460	-4,743	-4,862	-4,091	-4,149	-3,817	-90	-2,565	-3,515	-3,989	-3,834	-3,935	-4,151	-4,266	-3,626	-3,756	-3,569
Intra Europe	International	265	-2,090	-28,271	-57,483	-61,572	-67,650	-61,485	-54,274	-53,952	-50,915	-39,403	1,046	864	-25,217	-55,462	-61,145	-64,565	-58,835	-52,066	-51,885	-50,505	-39,098
Intra Middle East	International	65	-168	-2,606	-3,632	-3,328	-3,632	-3,867	-4,098	-3,255	-2,955	-2,549	197	8	-2,462	-3,442	-2,943	-3,454	-3,674	-3,939	-3,086	-2,891	-2,678
Intra North America	International	98	1	-1,219	-2,673	-2,588	-2,828	-2,992	-2,984	-2,535	-2,519	-2,294	-98	-92	-1,427	-2,687	-2,630	-2,770	-2,917	-2,947	-2,503	-2,552	-2,350
Intra North Asia	International	-21	-212	-1,050	-1,632	-1,629	-1,643	-1,812	-1,765	-1,321	-808	-615	-589	-688	-1,575	-1,675	-1,672	-1,686	-1,808	-1,714	-1,193	-1,090	-996
Intra Pacific South East Asia	International	-39	-1,487	-4,730	-7,559	-7,409	-7,504	-8,000	-7,891	-7,184	-7,485	-7,517	562	-988	-4,371	-7,296	-7,010	-7,227	-7,795	-7,621	-6,979	-7,274	-7,220
Intra South America	International	-161	-31	-834	-1,595	-1,631	-1,574	-1,816	-1,749	-1,603	-1,356	-1,270	-164	28	-768	-1,435	-1,442	-1,372	-1,689	-1,494	-1,373	-1,310	-1,304
Latin America/Caribbean - China	International	0	0	0	0	0	0	0	0	0	-5	-8	-5	-7	-8	-9	-9	-9	-8	-8	-8	-7	-8
Latin America/Caribbean - North Asia & Pacific South East Asia	International	2	-4	-27	-65	-68	-68	-72	-69	-66	-55	-58	2	-4	-28	-59	-59	-58	-65	-61	-57	-59	-60
Middle East	Domestic	-115	128	-1,597	-3,353	-3,240	-2,792	-2,855	-2,653	-2,151	-1,564	-1,327	-343	30	-1,831	-3,369	-3,256	-2,808	-2,873	-2,671	-2,166	-1,889	-1,647
Middle East - North America	International	54	12	-300	-729	-719	-715	-782	-775	-631	-557	-549	71	37	-285	-705	-679	-700	-772	-751	-612	-570	-541
Middle East - North Asia & Pacific South East Asia	International	84	-87	-1,111	-2,231	-2,042	-1,940	-2,047	-2,077	-1,791	-1,844	-1,810	98	20	-1,080	-2,082	-1,765	-1,782	-2,008	-2,021	-1,720	-1,795	-1,823
Middle East - South West Asia	International	23	-342	-2,620	-4,759	-4,524	-4,284	-4,417	-4,455	-3,850	-3,817	-3,800	286	84	-2,294	-4,346	-4,017	-3,897	-4,103	-4,223	-3,641	-3,590	-3,494
North America	Domestic	2,855	2,299	-36,263	-68,107	-67,926	-64,227	-60,878	-53,472	-45,688	-44,294	-39,136	4,448	5,665	-34,681	-65,198	-64,327	-59,496	-54,969	-50,265	-41,298	-41,904	-37,597
North America - North Asia	International	82	-109	-623	-1,320	-1,387	-1,390	-1,413	-1,418	-1,267	-1,200	-1,073	95	-81	-618	-1,263	-1,298	-1,298	-1,363	-1,347	-1,203	-1,207	-1,078
North America - Pacific South East Asia	International	45	-63	-293	-634	-641	-644	-690	-649	-605	-622	-574	73	-13	-279	-625	-623	-642	-678	-644	-580	-601	-580
North America - South America	International	47	7	-613	-1,242	-1,305	-1,341	-1,443	-1,396	-1,170	-914	-748	-107	-56	-705	-1,228	-1,266	-1,263	-1,330	-1,296	-1,098	-1,022	-889
North America - South West Asia	International	4	-13	-93	-181	-176	-180	-179	-157	-135	-115	-117	34	18	-59	-124	-119	-122	-88	-69	-79	-104	-107
North Asia	Domestic	210	-1,056	-6,777	-9,069	-9,925	-7,536	-6,969	-8,561	-7,211	-5,804	-4,870	502	-568	-6,649	-8,965	-9,557	-7,318	-6,707	-8,482	-6,971	-5,458	-4,510
North Asia - Pacific South East Asia	International	8	-1,012	-3,350	-3,848	-3,806	-3,725	-3,993	-4,701	-3,640	-4,433	-4,517	673	-344	-2,952	-3,785	-3,709	-3,681	-3,927	-4,140	-3,639	-3,831	-3,901
Pacific South East Asia	Domestic	-786	-2,279	-11,446	-24,661	-23,087	-21,457	-21,679	-23,446	-19,695	-15,935	-15,526	691	-321	-10,010	-23,264	-21,551	-20,281	-19,644	-21,198	-17,380	-16,498	-15,399
South America	Domestic	471	15	-6,153	-13,280	-13,651	-13,034	-14,018	-12,284	-10,267	-8,806	-6,460	796	641	-5,174	-12,448	-12,652	-11,712	-13,226	-11,519	-9,653	-8,397	-6,149
South West Asia	Domestic	-758	-306	-5,166	-13,140	-13,707	-11,926	-11,384	-10,391	-8,168	-7,599	-7,900	40	434	-4,402	-12,408	-12,916	-11,141	-10,587	-9,618	-7,420	-6,914	-7,060
<b>Domestic</b>		-5,937	-47,430	-118,454	-192,776	-186,560	-166,983	-151,928	-133,905	-111,188	-101,940	-95,589	2,220	-35,393	-110,817	-186,573	-179,093	-158,550	-142,053	-127,045	-102,747	-95,992	-90,686
<b>International</b>		1,092	-20,347	-88,841	-155,108	-156,894	-166,425	-166,311	-159,111	-142,582	-137,531	-121,812	5,782	-12,309	-83,396	-149,319	-151,466	-159,440	-159,657	-152,577	-137,171	-134,106	-118,509
<b>Total</b>		-4,845	-67,777	-207,295	-347,884	-343,454	-333,409	-318,239	-293,015	-253,770	-239,471	-217,400	8,002	-47,702	-194,212	-335,892	-330,559	-317,991	-301,710	-279,622	-239,918	-230,098	-209,195



# Estimated results by route group for Jan-Nov 2020: Passenger revenues

Route Group	DOM/INT	Gross revenue (USD, million, compared to Baseline)											Gross revenue (USD, million, compared to 2019)										
		Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20
Africa	Domestic	-19	-23	-146	-312	-281	-286	-286	-260	-249	-216	-212	-4	-2	-133	-305	-271	-275	-278	-259	-244	-207	-197
Africa - Asia/Pacific	International	11	-52	-114	-200	-189	-192	-202	-202	-183	-180	-193	34	-18	-87	-177	-170	-177	-192	-194	-177	-172	-174
Africa - Middle East	International	-11	-40	-354	-570	-557	-589	-603	-650	-481	-371	-398	59	34	-288	-518	-509	-565	-588	-648	-440	-346	-344
Africa - North America	International	-11	-11	-57	-137	-136	-172	-194	-203	-152	-115	-94	13	17	-33	-121	-117	-154	-176	-181	-132	-97	-82
Africa & Middle East - Central America/Caribbean	International	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Africa & Middle East - South America	International	2	0	-18	-48	-47	-45	-47	-47	-39	-35	-35	-1	0	-20	-41	-39	-41	-44	-44	-38	-37	-38
Central America/Caribbean	Domestic	-6	-11	-125	-329	-340	-295	-265	-191	-123	-136	-117	32	32	-90	-306	-319	-273	-248	-190	-101	-97	-83
Central America/Caribbean - Europe	International	13	-1	-179	-485	-406	-416	-450	-430	-350	-314	-379	11	10	-192	-466	-392	-402	-424	-407	-345	-321	-380
Central America/Caribbean - North America	International	44	-2	-577	-1,211	-1,117	-1,150	-1,149	-1,012	-704	-633	-669	20	24	-611	-1,196	-1,087	-1,145	-1,131	-1,001	-678	-654	-694
Central America/Caribbean - South America	International	8	4	-84	-217	-228	-218	-228	-220	-211	-195	-182	3	0	-92	-204	-215	-206	-223	-215	-202	-197	-181
China	Domestic	-741	-4,103	-3,261	-2,718	-2,090	-1,634	-1,327	-940	-376	-254	-298	-430	-3,730	-3,020	-2,733	-2,105	-1,649	-1,343	-956	-390	-15	-146
China - Europe	International	20	-293	-468	-608	-612	-637	-755	-752	-678	-645	-535	29	-255	-435	-603	-613	-654	-713	-720	-644	-618	-512
China - Middle East	International	9	-72	-113	-143	-137	-132	-141	-141	-134	-131	-131	11	-72	-112	-140	-132	-129	-144	-144	-130	-130	-128
China - North America	International	7	-284	-444	-615	-625	-642	-655	-682	-581	-555	-492	-33	-304	-500	-632	-642	-660	-674	-701	-594	-597	-529
China & South West Asia - North Asia	International	-7	-606	-1,046	-1,040	-1,029	-1,060	-1,135	-1,138	-1,020	-1,207	-1,269	221	-409	-873	-993	-992	-1,001	-1,069	-1,085	-991	-1,052	-1,072
China & South West Asia - Pacific South East Asia	International	-49	-1,188	-1,722	-1,960	-1,926	-1,954	-2,044	-2,116	-1,861	-2,031	-2,038	145	-1,117	-1,668	-1,957	-1,912	-1,940	-2,043	-2,085	-1,860	-1,959	-1,919
Europe	Domestic	64	8	-928	-1,889	-1,978	-1,701	-1,041	-591	-776	-898	-1,082	43	7	-955	-1,886	-1,981	-1,704	-1,043	-594	-779	-922	-1,104
Europe - Middle East	International	78	-12	-719	-1,344	-1,242	-1,307	-1,545	-1,565	-1,194	-1,208	-1,128	121	55	-696	-1,295	-1,112	-1,320	-1,506	-1,551	-1,215	-1,158	-1,090
Europe - North Africa	International	19	-8	-259	-585	-462	-635	-618	-610	-535	-468	-412	30	25	-255	-532	-448	-548	-567	-565	-503	-456	-406
Europe - North America	International	109	9	-985	-2,281	-2,669	-2,948	-3,082	-3,007	-2,652	-2,175	-1,556	53	36	-994	-2,242	-2,609	-2,894	-3,024	-2,947	-2,576	-2,238	-1,606
Europe - North Asia	International	30	-26	-259	-506	-518	-532	-565	-565	-522	-484	-388	34	-10	-246	-476	-492	-509	-522	-521	-477	-461	-380
Europe - Pacific South East Asia	International	-11	-76	-288	-703	-635	-625	-675	-674	-588	-697	-806	60	-23	-333	-682	-613	-602	-652	-653	-592	-652	-730
Europe - South America	International	-14	-28	-241	-482	-483	-486	-506	-494	-445	-476	-412	5	-1	-233	-465	-470	-472	-488	-472	-420	-410	-383
Europe - South West Asia	International	18	-19	-261	-488	-479	-503	-524	-498	-423	-404	-394	-36	-51	-318	-484	-447	-455	-483	-465	-396	-414	-424
Europe - Sub Saharan Africa	International	17	-19	-315	-663	-637	-641	-675	-636	-544	-507	-532	21	13	-308	-661	-610	-623	-665	-629	-531	-503	-539
Intra Africa	International	-31	-44	-168	-302	-297	-297	-322	-321	-276	-240	-226	5	-2	-129	-272	-256	-266	-288	-286	-246	-207	-191



# Estimated results by route group for Jan-Nov 2020: Passenger revenues

Route Group	DOM/INT	Gross revenue (USD, million, compared to Baseline)											Gross revenue (USD, million, compared to 2019)										
		Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Sep 20	Oct 20	Nov 20
Intra Central America/Caribbean	International	7	0	-48	-106	-112	-104	-106	-104	-98	-94	-93	6	3	-50	-106	-112	-104	-109	-107	-97	-96	-89
Intra China & South West Asia	International	-61	-381	-506	-580	-568	-576	-613	-628	-528	-536	-493	-12	-331	-454	-515	-495	-508	-536	-551	-468	-485	-461
Intra Europe	International	27	-216	-2,921	-5,940	-6,363	-6,991	-6,354	-5,608	-5,575	-5,261	-4,072	108	89	-2,606	-5,731	-6,319	-6,672	-6,080	-5,380	-5,362	-5,219	-4,040
Intra Middle East	International	8	-20	-303	-422	-387	-422	-449	-476	-378	-343	-296	23	1	-286	-400	-342	-401	-427	-458	-359	-336	-311
Intra North America	International	13	0	-165	-362	-351	-383	-405	-404	-343	-341	-311	-13	-12	-193	-364	-356	-375	-395	-399	-339	-346	-318
Intra North Asia	International	-1	-12	-57	-89	-89	-90	-99	-96	-72	-44	-34	-32	-38	-86	-91	-91	-92	-99	-93	-65	-59	-54
Intra Pacific South East Asia	International	-6	-225	-715	-1,142	-1,120	-1,134	-1,209	-1,192	-1,086	-1,131	-1,136	85	-149	-661	-1,103	-1,059	-1,092	-1,178	-1,152	-1,055	-1,099	-1,091
Intra South America	International	-28	-5	-147	-281	-288	-277	-320	-308	-283	-239	-224	-29	5	-135	-253	-254	-242	-298	-263	-242	-231	-230
Latin America/Caribbean - China	International	0	0	0	0	0	0	0	0	0	-4	-6	-4	-6	-6	-7	-7	-7	-6	-6	-6	-6	-6
Latin America/Caribbean - North Asia & Pacific South East Asia	International	1	-3	-18	-44	-47	-47	-50	-47	-46	-38	-40	1	-3	-19	-41	-40	-40	-44	-42	-39	-41	-41
Middle East	Domestic	-11	12	-151	-317	-306	-264	-270	-251	-203	-148	-125	-32	3	-173	-318	-308	-265	-272	-252	-205	-179	-156
Middle East - North America	International	26	6	-145	-352	-347	-345	-377	-374	-305	-269	-265	34	18	-138	-340	-328	-338	-372	-363	-295	-275	-261
Middle East - North Asia & Pacific South East Asia	International	23	-24	-302	-606	-555	-527	-556	-564	-487	-501	-492	27	6	-294	-566	-480	-484	-546	-549	-467	-488	-495
Middle East - South West Asia	International	4	-55	-420	-763	-725	-687	-708	-714	-617	-612	-609	46	13	-368	-697	-644	-625	-658	-677	-584	-575	-560
North America	Domestic	336	271	-4,273	-8,026	-8,004	-7,569	-7,174	-6,301	-5,384	-5,220	-4,612	524	668	-4,087	-7,683	-7,580	-7,011	-6,478	-5,923	-4,867	-4,938	-4,430
North America - North Asia	International	26	-35	-199	-423	-444	-445	-452	-454	-405	-384	-344	30	-26	-198	-404	-416	-416	-427	-431	-385	-386	-345
North America - Pacific South East Asia	International	37	-51	-237	-513	-519	-521	-559	-526	-490	-504	-464	59	-11	-226	-506	-504	-520	-549	-521	-469	-486	-469
North America - South America	International	19	3	-245	-497	-522	-536	-577	-558	-468	-365	-299	-43	-23	-282	-491	-506	-505	-532	-518	-439	-409	-356
North America - South West Asia	International	3	-10	-69	-136	-132	-135	-134	-118	-101	-86	-87	26	13	-44	-93	-89	-91	-66	-52	-59	-78	-80
North Asia	Domestic	11	-54	-344	-460	-504	-382	-354	-434	-366	-295	-247	25	-29	-337	-455	-485	-371	-340	-430	-354	-277	-229
North Asia - Pacific South East Asia	International	2	-265	-879	-1,009	-998	-977	-1,047	-1,233	-955	-1,162	-1,184	177	-90	-774	-993	-973	-965	-1,030	-1,086	-954	-1,004	-1,023
Pacific South East Asia	Domestic	-49	-142	-712	-1,534	-1,436	-1,335	-1,348	-1,458	-1,225	-991	-966	43	-20	-623	-1,447	-1,341	-1,261	-1,222	-1,318	-1,081	-1,026	-958
South America	Domestic	40	1	-527	-1,138	-1,169	-1,116	-1,201	-1,052	-879	-754	-553	68	55	-443	-1,066	-1,084	-1,003	-1,133	-987	-827	-719	-527
South West Asia	Domestic	-47	-19	-321	-817	-853	-742	-708	-646	-508	-473	-491	3	27	-274	-772	-803	-693	-658	-598	-462	-430	-439
<b>Domestic</b>		-422	-4,059	-10,789	-17,539	-16,961	-15,324	-13,973	-12,126	-10,089	-9,384	-8,704	272	-2,989	-10,134	-16,971	-16,276	-14,505	-13,015	-11,510	-9,308	-8,809	-8,268
<b>International</b>		350	-4,060	-16,049	-27,852	-27,995	-29,378	-30,130	-29,369	-25,813	-24,989	-22,717	1,294	-2,590	-15,242	-26,859	-26,894	-28,240	-28,968	-28,164	-24,869	-24,297	-22,033
<b>Total</b>		-72	-8,119	-26,838	-45,391	-44,956	-44,701	-44,102	-41,495	-35,903	-34,373	-31,421	1,566	-5,579	-25,376	-43,830	-43,170	-42,746	-41,983	-39,674	-34,178	-33,106	-30,302



## Appendix D: Summary of Analysis by Other Organizations



## ACI: Airport would lose USD 111.8 billion gross revenues in 2020

Region	Passenger number - both international and domestic for full year 2020		Airport revenue - both aeronautical and non-aeronautical for full year 2020	
	million and % change from 2020 "business as usual" baseline scenario		USD billion and % change from 2020 "business as usual" baseline scenario	
Africa	-169	-69.5%	-2.970	-69.1%
Asia/Pacific	-2,049	-59.2%	-29.600	-59.3%
Europe	-1,762	-70.8%	-40.800	-68.8%
Latin America/Caribbean	-431	-61.8%	-6.600	-62.9%
Middle East	-268	-70.6%	-9.700	-73.5%
North America	-1,331	-63.6%	-22.100	-63.7%
<b>Total</b>	<b>-6,011</b>	<b>-64.2%</b>	<b>-111.770</b>	<b>-65.0%</b>

[https://aci.aero/wp-content/uploads/2020/12/Advisory\\_Bulletin\\_The\\_impact\\_of\\_COVID\\_19\\_on\\_the\\_airport\\_business.pdf](https://aci.aero/wp-content/uploads/2020/12/Advisory_Bulletin_The_impact_of_COVID_19_on_the_airport_business.pdf)



# IATA: Airlines would lose USD 118.5 billion net profits in 2020

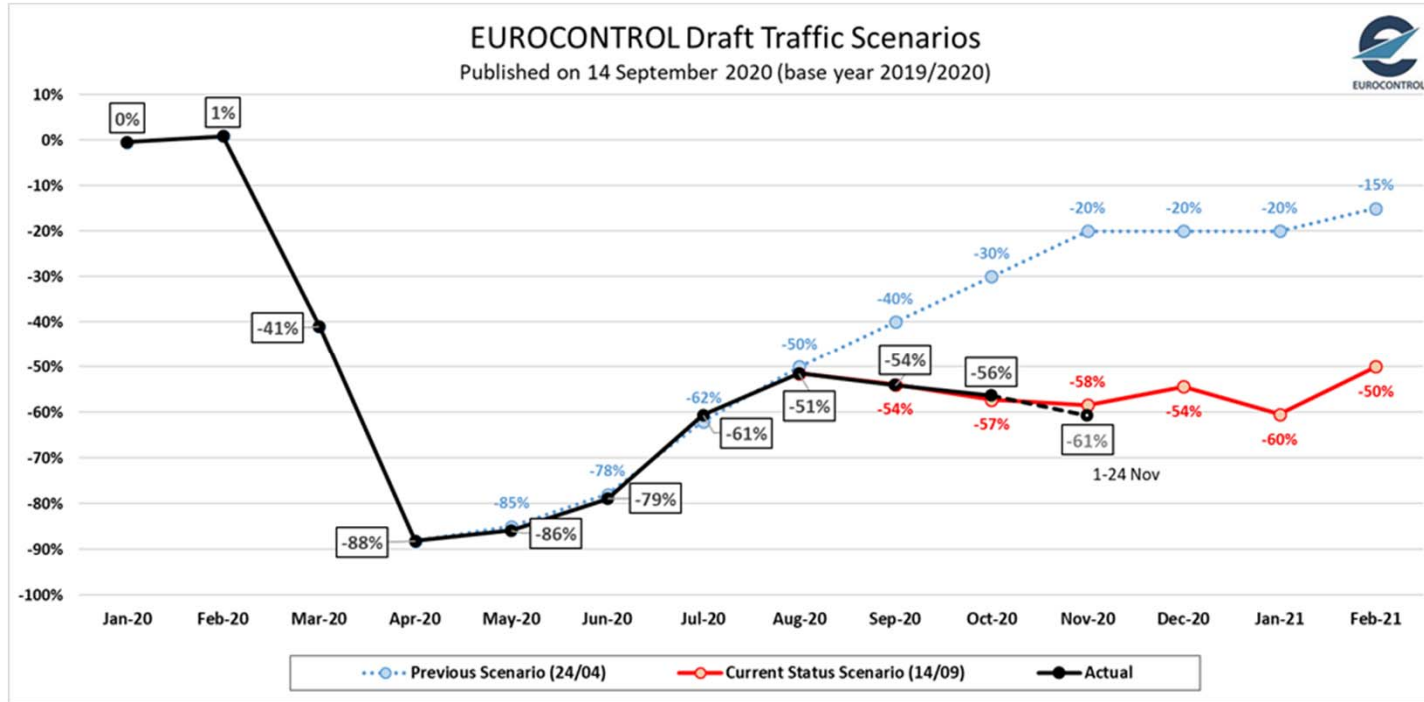
IATA's estimates are based on "region of airline registration" while ICAO uses "all traffic from States in each region" for the regional break-down.

IATA recently updated its estimated loss of gross passenger revenues from **USD 371 billion to USD 421 billion** (USD 510 billion including passengers, cargo and others) but no regional break-down was released.

Region of airline registration	Revenue Passenger Kilometres (RPKs) - both international and domestic for full year 2020	Net profit for full year 2020
	year-on-year % change from 2019 level	USD billion
Africa	-72.0%	-2.0
Asia/Pacific	-62.0%	-31.7
Europe	-70.0%	-26.9
Latin America/Caribbean	-64.0%	-5.0
Middle East	-73.0%	-7.1
North America	-66.0%	-45.8
<b>Total</b>	<b>-66.3%</b>	<b>-118.5</b>

<https://www.iata.org/en/iata-repository/publications/economic-reports/airline-industry-economic-performance---november-2020---data-tables/>

# EUOCONTROL: A loss of € 140 billion for airlines, airports and ANSPs in Europe in 2020

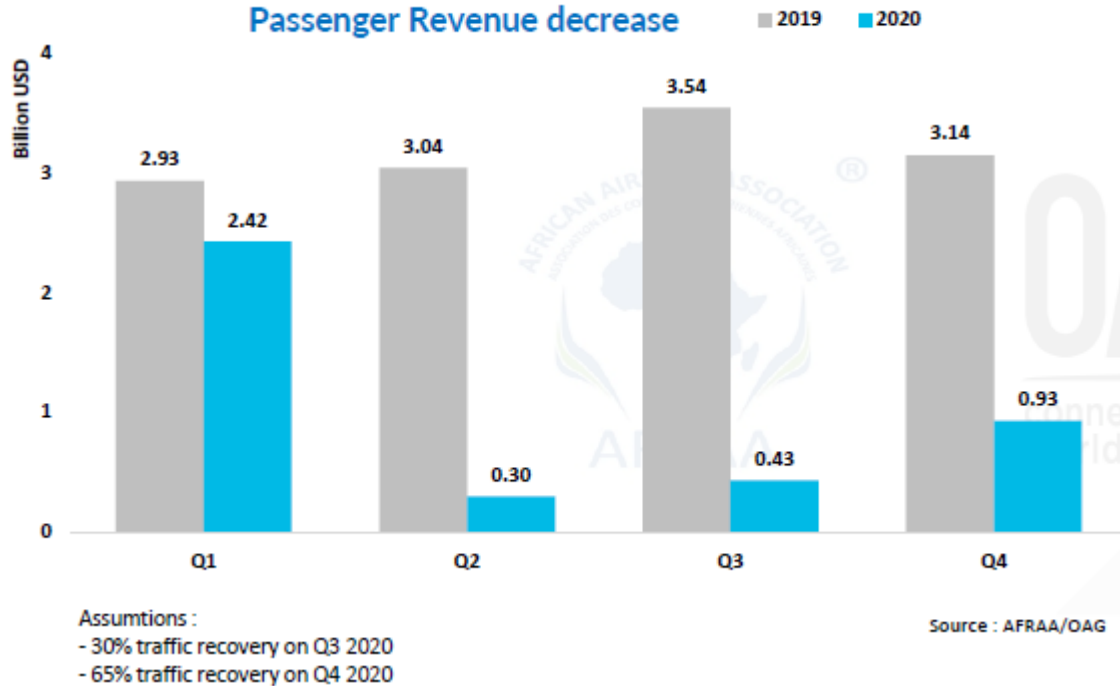


The total number of flights expected in Europe is anticipated to be 55% lower than in 2019, a drop of 6 million fewer flights.

<https://www.eurocontrol.int/sites/default/files/2020-09/eurocontrol-draft-traffic-scenarios-14092020.pdf>



# AFRAA: African Airlines would lose USD 8.56 billion passenger revenues in 2020

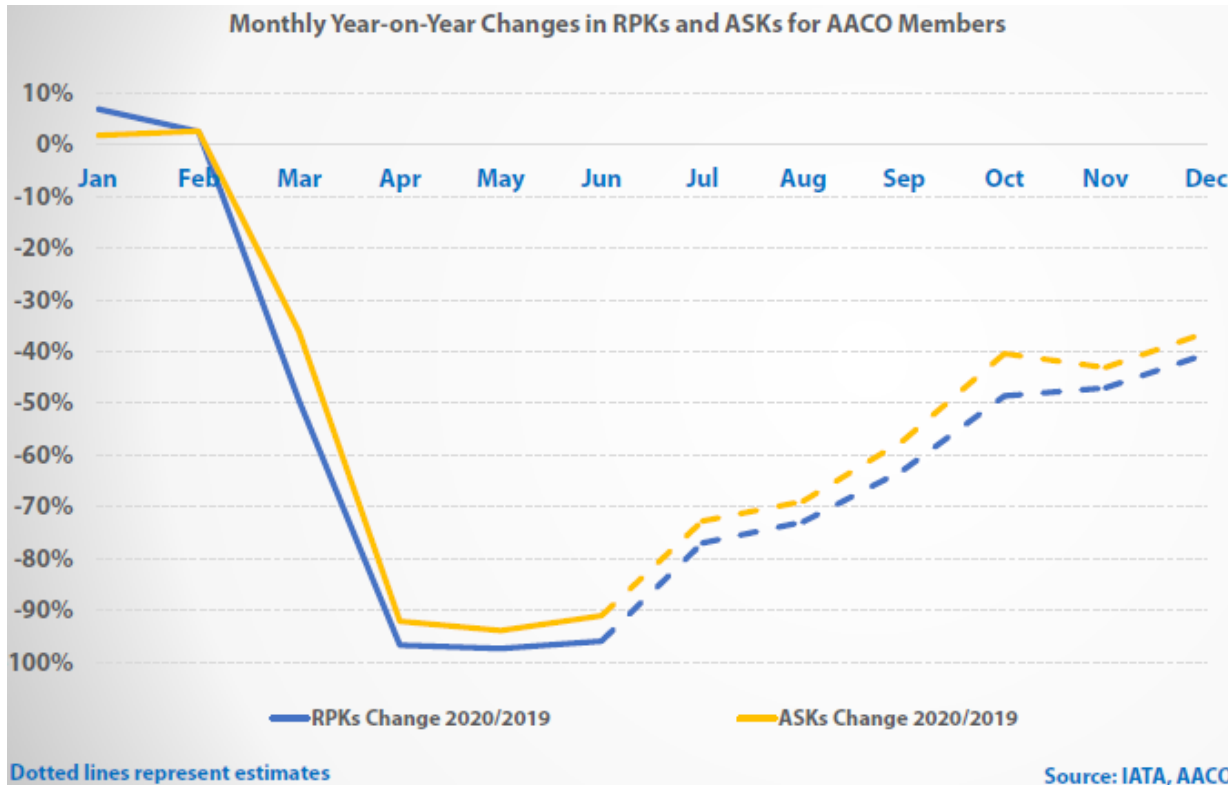


AFRAA's estimates (USD 8.56 billion loss) is greater than IATA's estimates (USD 6 billion loss). Both estimates are for airlines registered in Africa.

<https://afraa.org/wp-content/uploads/2020/07/AFRAA-COVID-19-Impact-Assessment-release-date-13-July-2020.pdf>



# AACO: 57% decline of Arab Airlines' passenger traffic in 2020

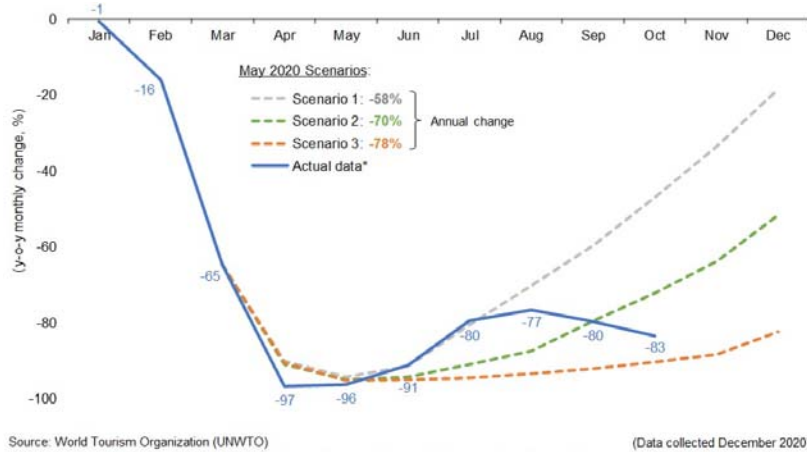


Total year's decline in RPKs and ASKs for AACO members is forecasted to reach 57.1% and 34.0%, respectively, in 2020 compared to 2019.

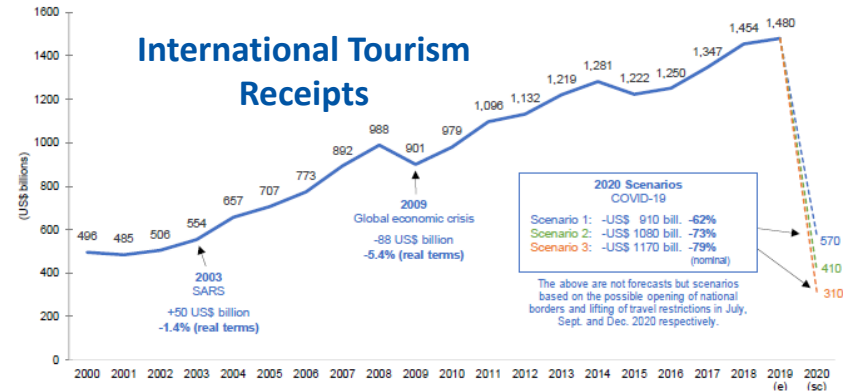
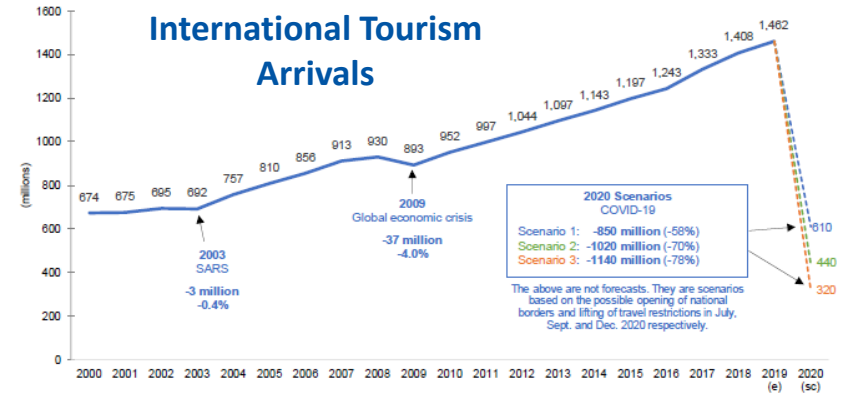
<https://aaco.org/media-center/covid-19>

# UNWTO: A loss of USD 910 to 1,170 billion in international tourism receipts in 2020

## Three scenarios dependent upon re-opening of borders International Tourism Arrivals (year-on-year % change from 2019 level)



<https://webunwto.s3.eu-west-1.amazonaws.com/s3fs-public/2020-05/Barometer%20-%20May%202020%20-%20Short.pdf>



# UNCTAD: USD 1.2 to 3.3 trillion global GDP loss in 2020 due to the break in international tourism

## Loss of 1.5%, 2.8% and 4.2% of world's GDP, respectively

Global macroeconomic losses

- 1 Moderate**  
  
1/3 of annual inbound tourism expenditure is removed in each country.  
This is equivalent to 4 months standstill of international tourism or a **↓ 80% for 5 months.**
- 2 Intermediate**  
  
2/3 of inbound tourism expenditure are removed in each country.  
This is equivalent to 8 months standstill of international tourism or a **↓ 80% for 10 months.**
- 3 Dramatic**  
  
All annual inbound tourism expenditure is removed in each country.  
This is equivalent to almost **12 months standstill of international tourism.**



<https://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=2810>

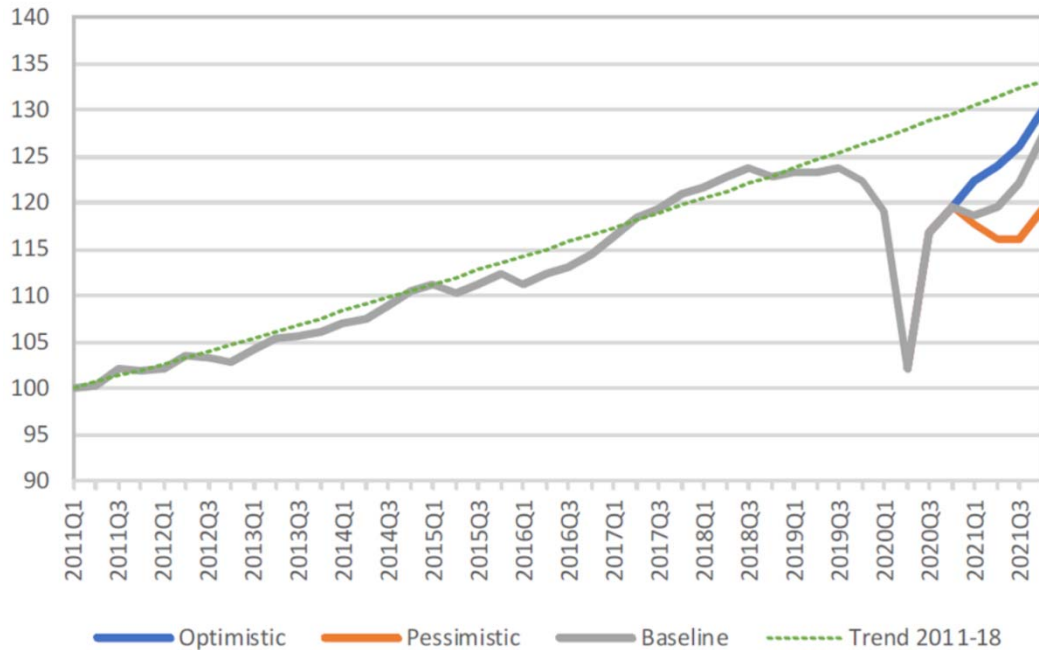
## 2020 forecasts – COVID-19 impact on travel and tourism sector

Region	Total Job Loss (million)			Total GDP Loss (USD billion*)		
	Best-Case	Baseline	Worst-Case	Best-Case	Baseline	Worst-Case
Africa	-7.6	-10.9	-17.4	-53	-75	-120
Asia/Pacific	-59.7	-69.3	-115.0	-980	-1,137	-1,888
Europe	-14.2	-18.4	-29.5	-771	-1,000	-1,608
Latin America/Caribbean	-5.9	-7.7	-12.4	-111	-143	-229
Middle East	-2.7	-3.4	-4.9	-99	-125	-179
North America	-8.1	-11.4	-18.2	-673	-955	-1,520
<b>Total</b>	<b>-98.2</b>	<b>-121.1</b>	<b>-197.5</b>	<b>-2,686</b>	<b>-3,435</b>	<b>-5,543</b>

**Worst-case scenario:** Current restrictions starting to ease from September for short-haul and regional travel, from October for mid-haul and from November for long-haul. **Baseline scenario:** Current restrictions starting to ease from June for regional travel, July for short-haul or regional travel; from August for mid-haul, and from September for long-haul. **Best-case scenario:** Current measures starting to ease from June for short-haul and regional travel; from July for mid-haul and from August for long-haul. \* based on 2019 prices and exchange rates.

<https://wtcc.org/News-Article/More-than-197m-Travel-Tourism-jobs-will-be-lost-due-to-prolonged-travel-restrictions>

**World Merchandise Trade Volume**  
(2011 Q1 =100)



- World merchandise trade volume is forecast to fall 9.2% in 2020.
- The projected decline is less than the 12.9% drop foreseen in the optimistic scenario from the April trade forecast.
- Trade volume growth should rebound to 7.2% in 2021 but will remain well below the pre-crisis trend.
- The 14.3% quarter-on-quarter decline in world merchandise trade in the second quarter is the largest on record, but high-frequency data point to a partial rebound in the third quarter.

[https://www.wto.org/english/news\\_e/pres20\\_e/pr862\\_e.htm](https://www.wto.org/english/news_e/pres20_e/pr862_e.htm)



# IMF & World Bank: Global economy is projected to contract by -3.5% to -4.3% in 2020

The Projections assume that the pandemic fades in the second half of 2020 and containment efforts can be gradually unwound

Real GDP (Percent change from previous year)	IMF			World Bank		
	2019	2020	2021	2019	2020	2021
World	2.8	-3.5	5.5	2.3	-4.3	4.0
Advanced economies	1.6	-4.9	4.3	1.6	-5.4	3.3
United States	2.2	-3.4	5.1	2.2	-3.6	3.5
Euro Area	1.3	-7.2	4.2	1.3	-7.4	3.6
Japan	0.3	-5.1	3.1	0.3	-5.3	2.5
Emerging market and developing economies	3.6	-2.4	6.3	3.6	-2.6	5.0
Emerging and Developing Asia	5.4	-1.1	8.3			
East Asia and Pacific				5.8	0.9	7.4
China	6.0	2.3	8.1	6.1	2.0	7.9
South Asia				4.4	-6.7	3.3
India	4.2	-8.0	11.5	4.2	-9.6	5.4
Emerging and Developing Europe	2.2	-2.8	4.0			
Europe and Central Asia				2.3	-2.9	3.3
Russia	1.3	-3.6	3.0	1.3	-4.0	2.6

Real GDP (Percent change from previous year)	IMF			World Bank		
	2019	2020	2021	2019	2020	2021
Emerging market and developing economies						
Middle East and Central Asia	1.4	-3.2	3.0			
Middle East and North Africa				0.1	-5.0	2.1
Saudi Arabia	0.3	-3.9	2.6	0.3	-5.4	2.0
Sub-Saharan Africa	3.2	-2.6	3.2	2.4	-3.7	2.7
Nigeria	2.2	-3.2	1.5	2.2	-4.1	1.1
South Africa	0.2	-7.5	2.8	0.2	-7.8	3.3
Latin America and the Caribbean	0.2	-7.4	4.1	1.0	-6.9	3.7
Brazil	1.4	-4.5	3.6	1.4	-4.5	3.0
Mexico	-0.1	-8.5	4.3	-0.1	-9.0	3.7
High-income countries				1.6	-5.4	3.2
Developing countries				3.7	-2.3	5.2
Low-income countries	5.3	-0.8	5.1	4.0	-0.9	3.3

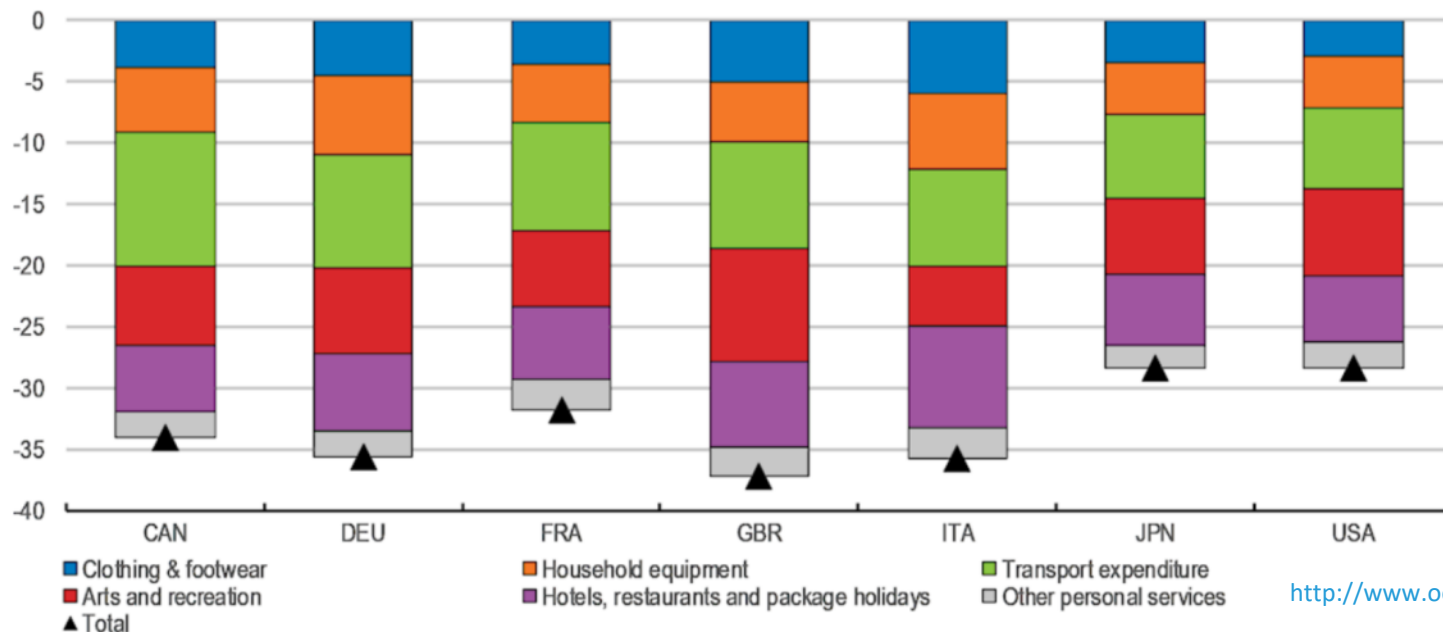
\* IMF and World Bank use different Region/State classification; 2020 estimates; and 2021 projections

<https://www.imf.org/en/Publications/WEO/Issues/2021/01/26/2021-world-economic-outlook-update>  
<https://www.worldbank.org/en/publication/global-economic-prospects>

# OECD: Sharp decrease in consumers' expenditures for air travel due to containment measures

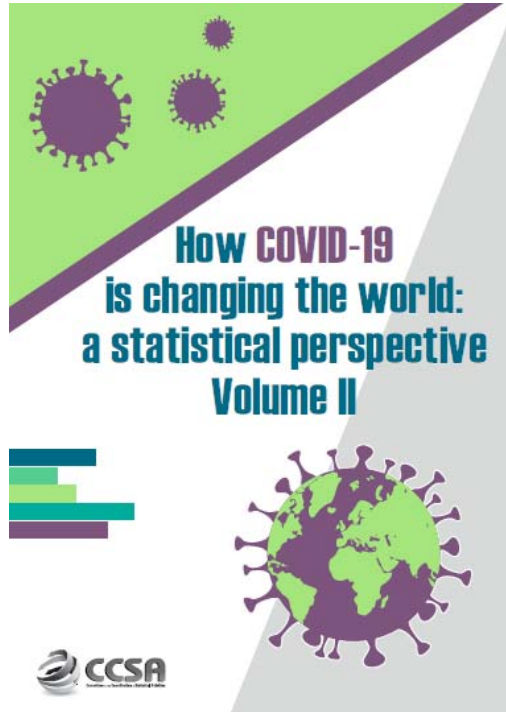
The potential initial impact of partial or complete shutdowns on private consumption in the G7 economies

Per cent of total consumers' expenditure



<http://www.oecd.org/coronavirus/en/>





The new report will be published by the Committee for the Coordination of Statistical Activities (CCSA) under the auspice of the UN-DESA

## ECONOMIC

### Aviation standstill with slow and shallow recovery

The global aviation came to a halt in the course of wide-scale lockdown and travel restrictions across all regions. Air travel demand was crippled with stagnant recovery anticipating a long shadow of the crisis.

[https://unstats.un.org/unsd/ccsa/documents/covid19-report-ccsa\\_vol2.pdf](https://unstats.un.org/unsd/ccsa/documents/covid19-report-ccsa_vol2.pdf)



North American  
Central American  
and Caribbean  
(NACC) Office  
Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

Western and  
Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
Paris

Middle East  
(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok

<https://www.icao.int/sustainability/Pages/COVID-19-Air-Traffic-Dashboard.aspx>

<https://www.icao.int/Newsroom/Pages/2020-passenger-totals-drop-60-percent-as-COVID19-assault-on-international-mobility-continues.aspx>



THANK YOU

<https://www.icao.int/sustainability/Pages/Economic-Impacts-of-COVID-19.aspx>

<https://www.icao.int/sustainability/Pages/Air-Traffic-Monitor.aspx>

<https://www.icao.int/sustainability/Pages/Economic-and-financial-measures.aspx>

# COVID-19 Weekly Epidemiological Update

Data as received by WHO from national authorities, as of 31 January 2021, 10 am CET

For the latest data and other updates on COVID-19, please see:

- [WHO COVID-19 Dashboard](#)
- [WHO COVID-19 Weekly Operational Update](#)

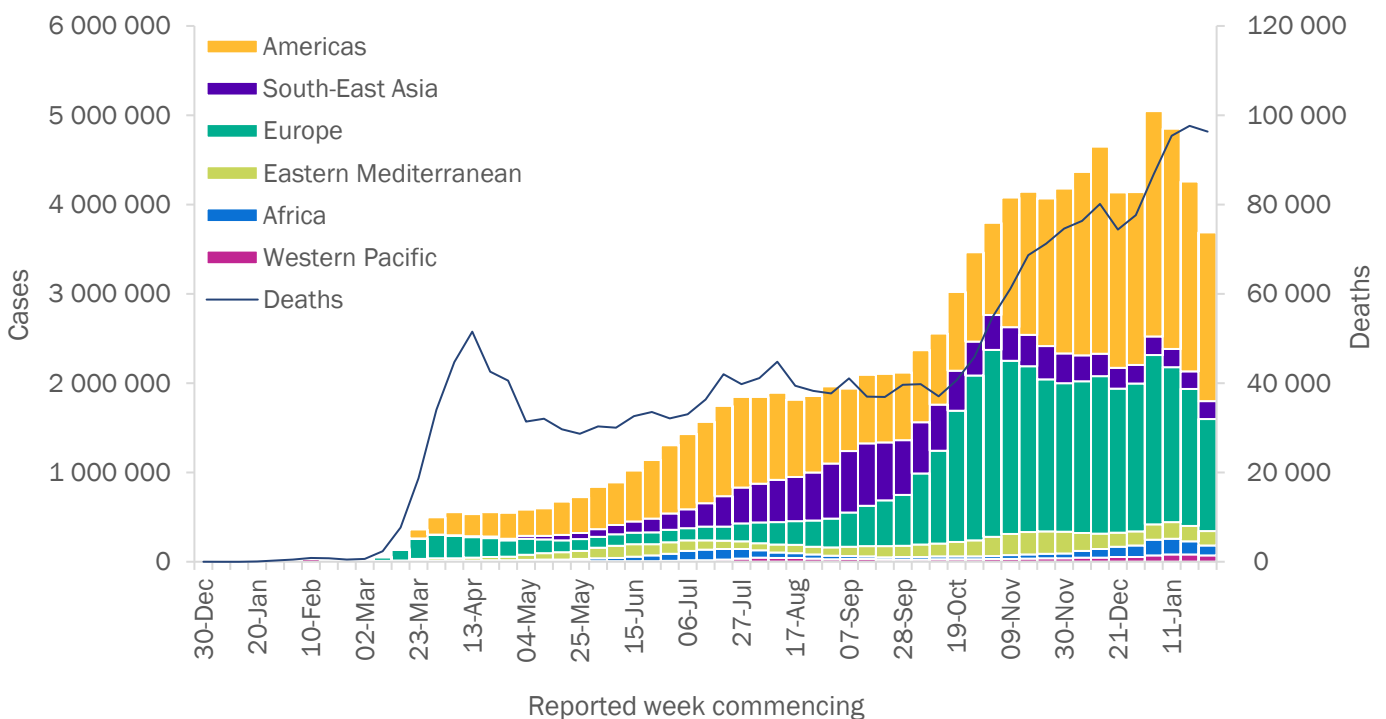
## Global epidemiological situation

Globally, 3.7 million new cases were reported last week, a 13% decline as compared to the previous week, and the third consecutive week showing a decline in cases. There were 96 000 new deaths, and a 1% decline as compared to the previous week, (Figure 1). This brings the total number of cases to over 102 million and the total number of deaths to 2.2 million from 222 countries and territories. Last week, all WHO regions, except South-East Asia reported a decline in new cases (Table 1). Although new deaths declined globally by 1%, they rose in the Western Pacific (21%), Eastern Mediterranean (9%), and the Americas (4%).

Saturday 30 January 2021 marked one year since WHO declared COVID-19 a Public Health Emergency of International Concern. At that time, there were 9826 cases in 20 countries, and 213 deaths in one country (all of which were in China).

In the past week, the five countries reporting the highest number of new cases continue to be the United States of America (1 072 287 cases, a 15% decrease), Brazil (364 593 cases, a 1% increase), the United Kingdom of Great Britain and Northern Ireland (178 629 cases, a 31% decrease), France (141 092 cases, a 2% increase) and the Russian Federation (131 039 cases, a 13% decrease).

**Figure 1: COVID-19 cases reported weekly by WHO Region, and global deaths, as of 31 January 2021\*\***



\*\*See [data](#), [table](#) and [figure notes](#)

In this edition of the COVID-19 Weekly Epidemiological Update, special focus updates are provided on:

- [COVID-19 and Health Workers](#)
- [SARS-CoV-2 variants of concern](#)
- Additional Region-specific information: [African Region](#), [Region of the Americas](#), [Eastern Mediterranean Region](#), [European Region](#), [South-East Asia Region](#), and [Western Pacific Region](#)
- [Key Weekly Updates](#)

Note: From 3 February 2021, a daily log of major changes and errata in WHO daily aggregate case and death count data will no longer be published [online](#). A record of historic data adjustment made will continue to be available upon request by emailing [epi-data-support@who.int](mailto:epi-data-support@who.int). Please specify the country(ies) of interest, time period(s), and purpose of the request/intended usage.

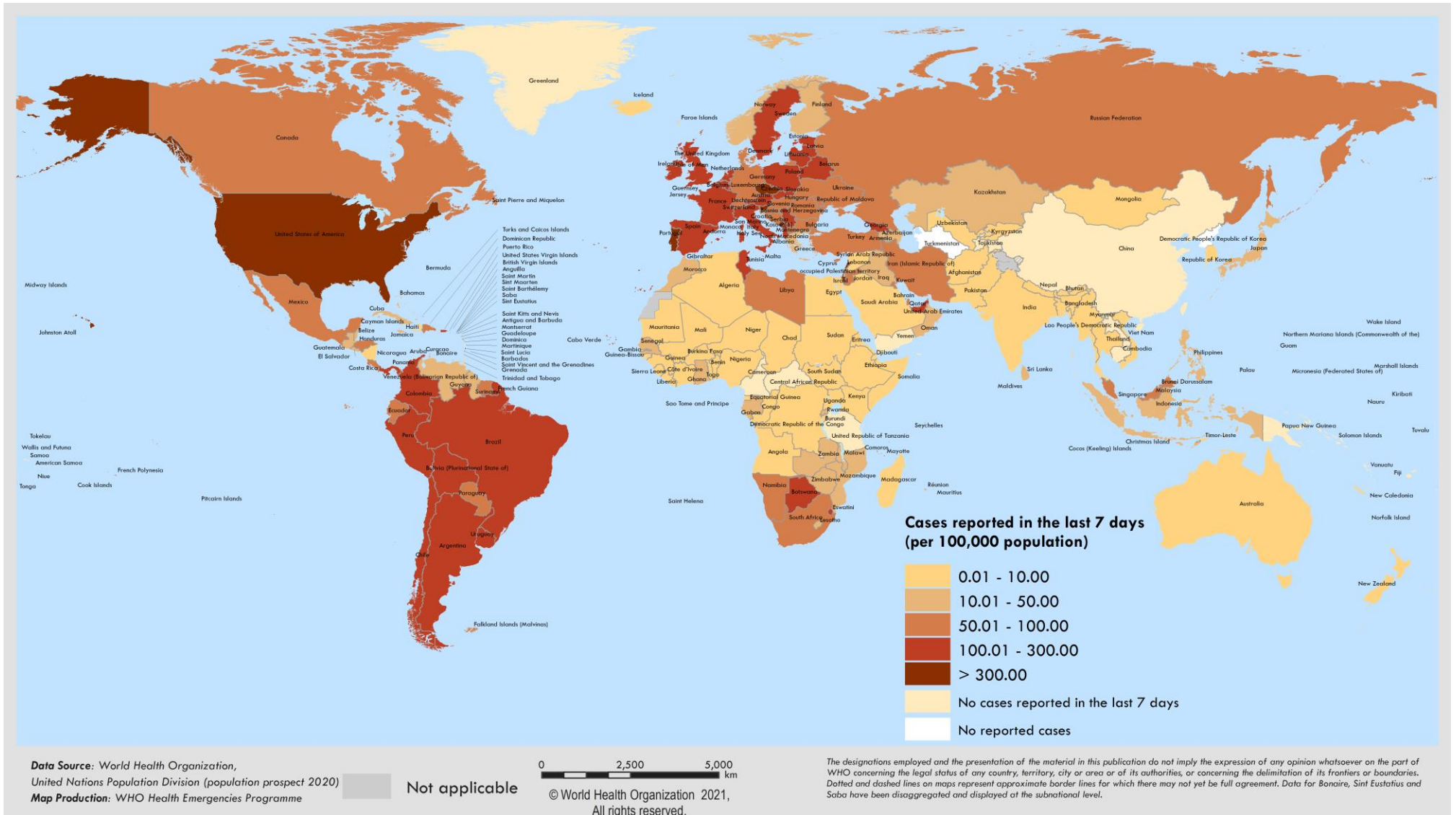
**Table 1. Newly reported and cumulative COVID-19 confirmed cases and deaths, by WHO Region, as of 31 January 2021\*\***

WHO Region	New cases in last 7 days (%)	Change in new cases in last 7 days *	Cumulative cases (%)	New deaths in last 7 days (%)	Change in new deaths in last 7 days *	Cumulative deaths (%)
Americas	1 888 070 (51%)	-11%	45 345 051 (44%)	47 277 (49%)	4%	1 047 171 (47%)
Europe	1 255 352 (34%)	-18%	34 276 814 (34%)	36 674 (38%)	-8%	745 590 (34%)
South-East Asia	200 219 (5%)	3%	12 856 723 (13%)	3 258 (3%)	0%	197 707 (9%)
Eastern Mediterranean	161 943 (4%)	-5%	5 669 940 (6%)	3 272 (3%)	9%	134 189 (6%)
Africa	108 391 (3%)	-27%	2 570 474 (3%)	4 602 (5%)	-8%	62 504 (3%)
Western Pacific	72 135 (2%)	-11%	1 420 024 (1%)	1 281 (1%)	21%	24 588 (1%)
<b>Global</b>	<b>3 686 110 (100%)</b>	<b>-13%</b>	<b>102 139 771 (100%)</b>	<b>96 364 (100%)</b>	<b>-1%</b>	<b>2 211 762 (100%)</b>

\*Percent change in the number of newly confirmed cases/deaths in past seven days, compared to seven days prior. Regional percentages rounded to the nearest whole number, global totals may not equal 100%.

\*\*See [data](#), [table](#) and [figure notes](#).

Figure 2. COVID-19 cases per 100 000 population reported in the last seven days by countries, territories and areas, 25 January through 31 January 2021\*\*



\*\*See data, table and figure notes

## Special Focus: COVID-19 and Health Workers

### Overview

In his [press briefing of 29 January 2021](#), WHO Director-General Dr Tedros again emphasized that healthcare workers have been at the forefront of the response to the pandemic but are often under-protected and over-exposed. He reiterated his 18 January 2021 call to action: for governments and industry leaders to work together to ensure that in the first 100 days of 2021, vaccination of health workers and older people is underway in all countries.

In this Special Focus – recognizing that 2021 has been designated as the [International Year of Health and Care Workers](#) – we present an overview of health worker SARS-CoV-2 infections using data collected via the WHO Global Surveillance systems, and analyse risk factors from available scientific literature.

To date, a total of 183 countries have reported data via WHO Case Report Forms (CRFs) to date, covering 37 million cases (36% of current global COVID-19 cases). The CRFs were mainly received from Member States in the Region of the Americas and European Region. Over 16 million CRFs (43% of CRFs received, representing 16% of global COVID-19 cases) included information on occupation status, including health workers<sup>1</sup>. Within this subset, health workers accounted for close to 1.29 million COVID-19 cases, or 8% of cases. The median age of health worker cases was 42 years (interquartile range 27 to 60 years), and 68% were women. This is in line with the [proportion of women working in the health and social sectors](#) globally.

At the outset, it is important to mention that the analyses based on CRF data provided to WHO has limitations, mainly due to variations in reporting coverage and completeness, reporting methods, some irregularity of weekly reports, health worker definitions, and lack of information about the setting of exposure. WHO advises Member States to use the definition of health workers as stated in the [Surveillance Protocol](#) for SARS-CoV-2 infection.<sup>2</sup>

### Percentage of health worker infections and relative risk over time

It is important to acknowledge that country-specific trends remain highly variable, and the data are based on reported cases (those testing positive for SARS-CoV-2) often without providing information on the overall number tested. Therefore, it is difficult to reliably compare incidence of health worker infections over time and trends should be interpreted with caution due to variations in reporting coverage and completeness, adaptations to testing strategies, differences in the implementation of public health measures and interventions, as well as differences in the circulation of SARS-CoV-2 in the community over time. Additionally, it is not possible to determine the place of exposure (e.g., health care facility or community) among health workers from WHO CFR data.

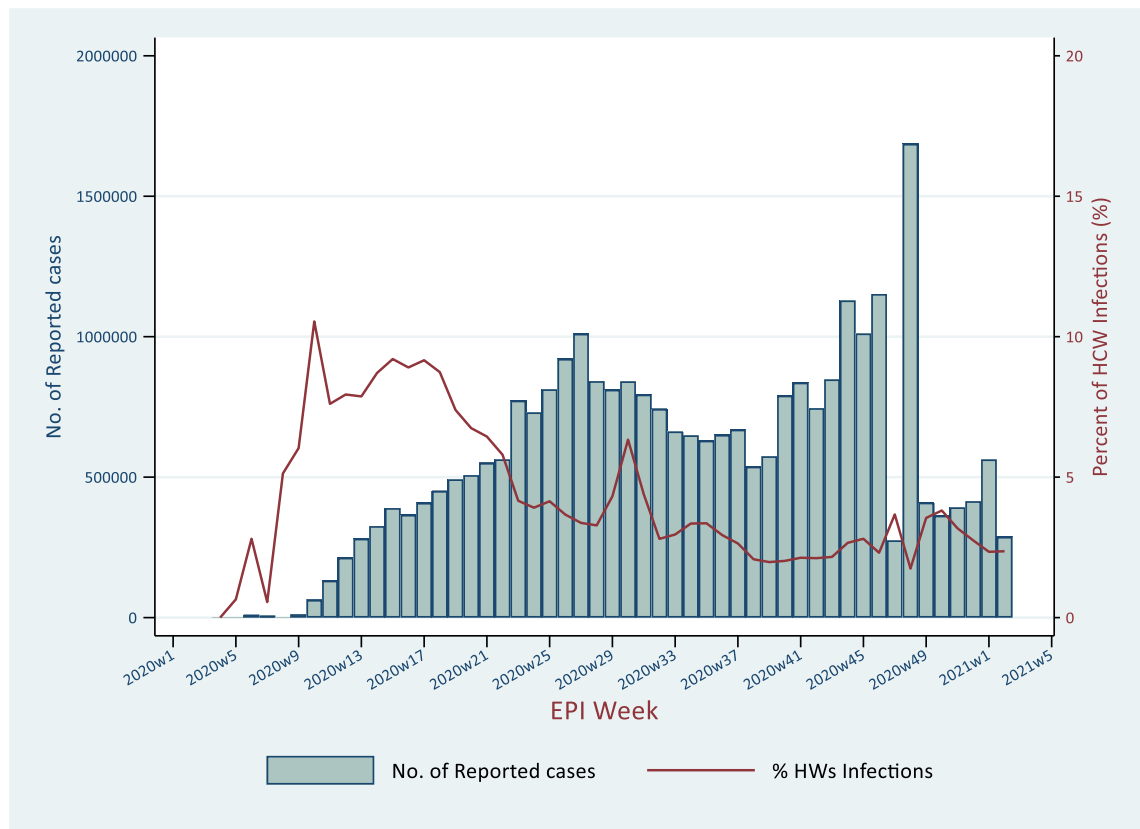
Based on WHO CRF data, in the first three months of the pandemic, health worker infections slightly exceeded 10% of reported cases (Figure 3), declining to less than 5% by early-June 2020 (Epi week 2) and to approximately 2.5% by September 2020 (Epi week 37).

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<sup>1</sup> For the purposes of the case-based surveillance, 'health workers' were defined as those working "any job in a health care setting".

<sup>2</sup> The term "health worker" includes allied health workers and auxiliary health workers such as cleaning and laundry personnel, x-ray physicians and technicians, clerks, phlebotomists, respiratory therapists, nutritionists, social workers, physical therapists, laboratory personnel, cleaners, admission/reception clerks, patient transporters, catering staff and so on).

**Figure 3: Weekly total number of cases, and percentage of health worker cases among infected individuals reported, data from WHO Case Report Forms where occupation was indicated, 20 January 2020 to 31 January 2021.**



A relative risk measure (dividing the rate of health worker infections by that of the non-health workers) was calculated for each week by estimating the total number of health workers and non-health workers. The rate of health worker infections was calculated by dividing their number by all workers employed in the health and social sector. A similar rate of infection was calculated for non-health workers relative to the general population size. It must be noted that there has likely been surveillance bias and differences in testing of health workers compared to general population, particularly early on. Based on the data we have available, it is observed that health workers experienced more than triple the risk of infection as that of the general population in the period between mid-March to mid-May 2020. A similar level of relative risk<sup>3</sup> was also reported by an observational cohort study of about 2 million community individuals and 100 000 front-line health-care workers in the United Kingdom of Great Britain and Northern Ireland, and the United States of America. Our data suggests this period of elevated risk was followed by a steep decline to that found in the general population by end of May 2020.

### Analysis of health worker risk factors

WHO first commissioned a rapid systematic review of published literature on the risk factors in health workers for SARS-CoV-2 infections in April 2020 and this has been updated regularly since. The latest update on 24 December 2020 identified a total of 37 studies evaluating risk factors associated with SARS-CoV-2 infection in health workers. Highlights include:

- SARS-CoV-2 infections occurred among health workers in various roles (clinical or non-clinical) and departments/settings (including outpatient and non-COVID-19 care settings).
- There was no consistent difference in risk of infection between job titles, including between nurses compared with physicians, which represented the most commonly reported health worker roles.

<sup>3</sup> Adjusted HR 3.40, 95% CI 3.37–3.43

- There was no association found between sex or age and risk of SARS-CoV-2 infection or seropositivity in health workers.
- African-Americans and Hispanic health workers had an increased risk of SARS CoV-2 infection.
- Education and training in infection prevention and control were associated with decreased risk of SARS-CoV-2 infection in health workers.
- Certain exposures such as those involving intubations, other aerosol-generating procedures, direct patient contact, or contact with bodily secretions were found to be associated with increased infection risk compared with less intensive or direct exposure; though evidence was inconsistent, likely related to confounding factors such as those related to the availability, distribution, and use of PPE.
- Evidence on the association between health worker infection and use of individual PPE measures (masks, gloves, gown, eye protection) and hand hygiene was limited. However, most studies found that availability and appropriate use of PPE as recommended by local authorities was associated with decreased risk of SARS-CoV-2 infection. Evidence on the use of N95 or FFP2 respirators versus medical/surgical masks was inconclusive and limited to two inconsistent observational studies. Further information on the use of masks in health facilities can be found in the [interim guidance on mask use in the context of COVID-19](#).
- Three studies found that universal masking in health facilities was associated with decreased risk of SARS-CoV-2 infection in health workers.

A number of possible hypotheses may help to explain the observed trends in health worker infections. The higher proportion of health worker infections at the beginning of the pandemic in some countries may be due to the lack of preparedness to infectious disease outbreaks, of standard IPC precautions during care delivery, and reduced access to PPE, and overburdened health systems due to increased hospitalizations and limited health care capacities. Trends could also reflect different testing strategies prioritizing health workers over the general public. The subsequent decline in health worker infections could be a result of multiple interventions, including: i) training of health workers on IPC measures; ii) increased availability and appropriate use of personal protective equipment (PPE); iii) monitoring of IPC practices by occupational health and safety personnel; iv) improved clinical management based on improved knowledge about COVID-19, v) reduced bed capacity of COVID-19 patients in hospitals; vi) general reduction in community transmission with implementation of public health and social measures resulting in less pressure on hospital systems and hospitalizations; vi) increased SARS-CoV-2 testing capabilities; and, vii) increased knowledge of methods of transmission. Hence, it is impossible to determine from the available data how these interventions (individually or as a mix) contributed to the observed trends.

The WHO review of available studies found that observational studies provided important insights but had some methodological limitations. These limitations include potential recall bias, low or unclear participation rates, small sample sizes, and challenges in disentangling the effect of different measures, which were often implemented at the same time.

To bridge these gaps and improve the understanding of SARS-CoV-2 infection among health workers, WHO has developed a [standardized protocol](#) for COVID-19 surveillance among health workers that countries can use, and is leading an international multi-centre case-control [study](#) primarily aimed at identifying risk factors and settings of exposure. More than 140 sites in 28 countries have enrolled so far and recruitment is ongoing (for more information please contact: [earlyinvestigations-2019-nCoV@who.int](mailto:earlyinvestigations-2019-nCoV@who.int)).



Additionally, to mitigate health workers' infections WHO has developed a [health workers' risk assessment and management of exposure to COVID-19 cases](#) and guidance on [Prevention, identification and management of health worker infection in the context of COVID-19](#).

WHO continues to support health workforce managers and policy makers with the December 2020 release of [Health workforce policy and management in the context of the COVID-19 pandemic response interim guidance](#), consolidating the evolving evidence on the design, management and preservation of the workforce necessary to respond to the COVID-19 pandemic and maintain essential health services.

## References

International Labour Organization, 2020, *ILOSTAT*, 2/2/2021, <https://ilostat.ilo.org/data/>

Nguyen LH et al., Risk of COVID-19 among front-line health-care workers and the general community: a prospective cohort study. *Lancet Public Health*. 2020;5(9):E475–E483

Chou et al., Epidemiology of and Risk Factors for Coronavirus Infection in Health Care Workers: A Living Rapid Review, *Annals of Internal Medicine*. 2020 Jul 21;173(2):120-136. doi: 10.7326/M20-1632. Epub 2020 May 5

Chou et al., Update Alert 6: Epidemiology of and Risk Factors for Coronavirus Infection in Health Care Workers, *Annals of Internal Medicine*. 2020 Nov 24 : L20-1323. Epub Nov 24. doi: 10.7326/L20-1323

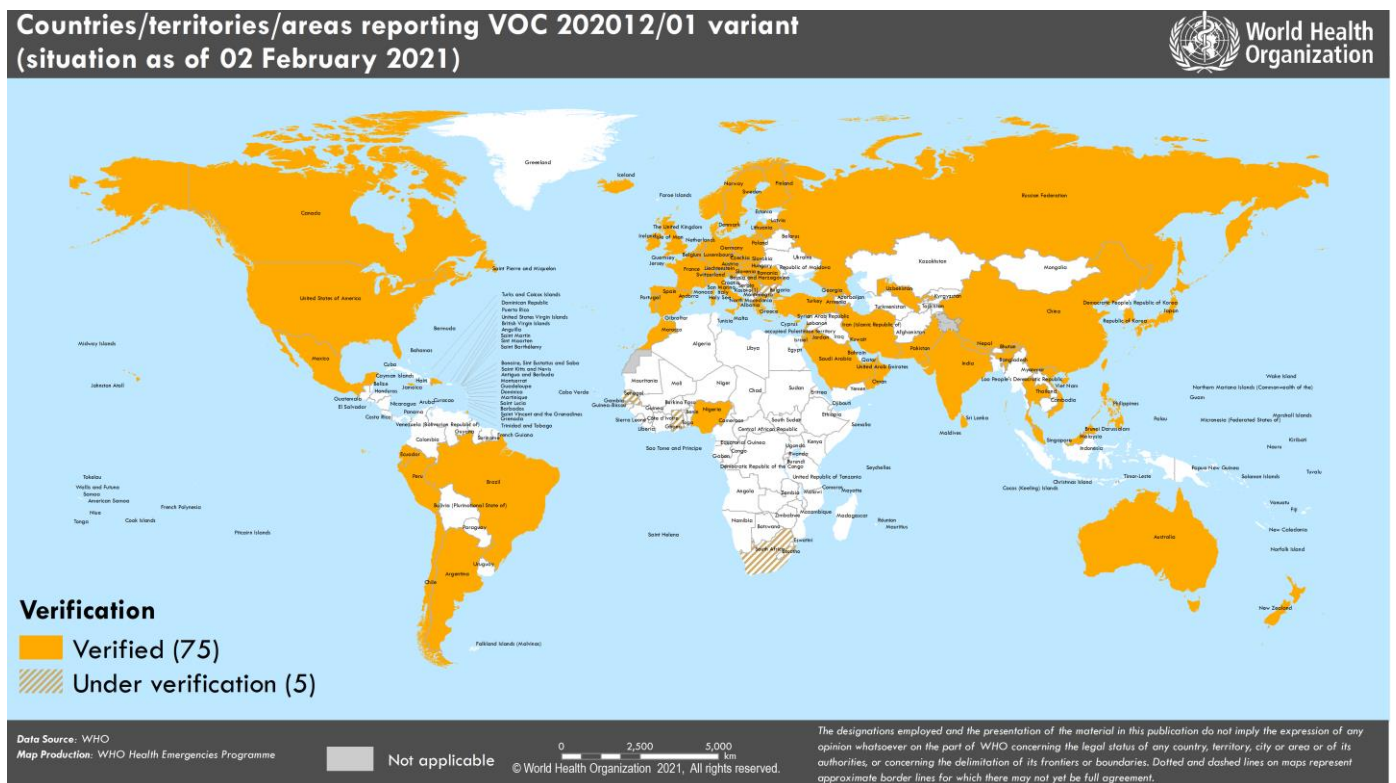
## Special Focus: Update on SARS-CoV-2 variants of concern

WHO, in collaboration with national authorities, institutions and researchers, continues to monitor the public health events associated with SARS-CoV-2 variants and provides updates as new information becomes available. Further information on the background of the variants of concern (VOC) is available from previously published [Disease Outbreak News](#) and in the last four publications of the [Weekly Epidemiological Updates](#).

WHO continues to work with partners to evaluate available evidence around transmissibility, severity, antibody neutralization capabilities and potential impacts on vaccines of specific mutations, variants of interest and variants of concern. Here we provide an update on the geographical distribution of three variants of concern as reported by countries, territories and areas (hereafter countries) as of 2 February 2021:

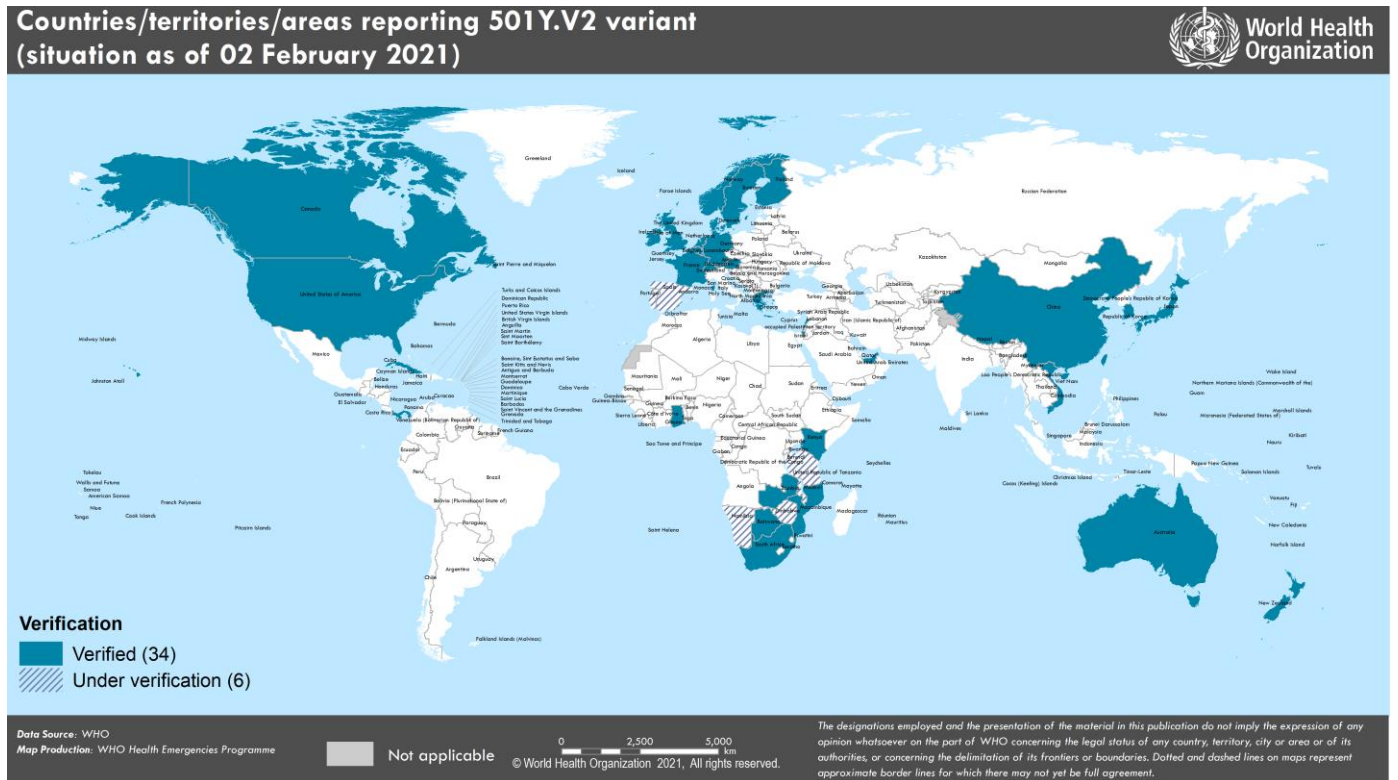
**1. Variant VOC 202012/01, lineage B.1.1.7:** Since our last update on 27 January, variant VOC 202012/01 has been detected in ten additional countries. As of 2 February, a total of 80 countries across all six WHO regions have reported either imported cases or community transmission of this variant (Figure 5).

**Figure 5. Countries, territories and areas reporting SARS-CoV-2 VOC 202012/01 as of 2 February 2021**



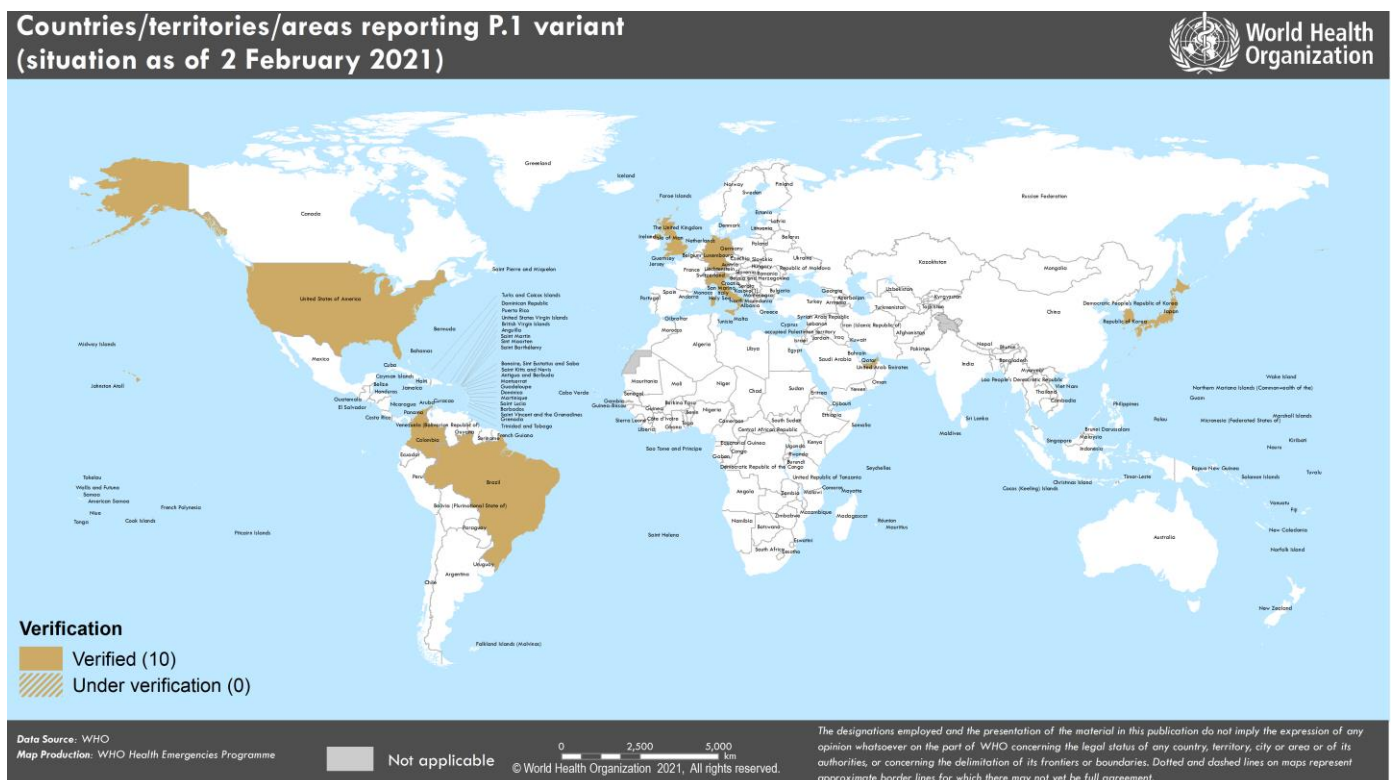
**2. Variant 501Y.V2, lineage B.1.351:** Since the last update on 27 January, 501Y.V2 has been reported from ten additional countries– now totaling 41 countries across four of the six WHO regions (Figure 6).

**Figure 6. Countries, territories and areas reporting SARS-CoV-2 501Y.V2 as of 2 February 2021**



**3. Variant P.1, lineage B.1.1.28:** Since our last update, variant P.1 has been reported in two additional countries. To date, this variant is reported in ten countries across four of the six WHO regions (Figure 7).

**Figure 7. Countries, territories and areas reporting SARS-CoV-2 P.1 variant as of 2 February 2021**



Last week, WHO held a multidisciplinary Global Transmission Discussion Seminar on SARS-CoV-2 variants and transmission. Participants from Brazil, Denmark, South Africa and the United Kingdom presented ongoing work aiming to understand transmission aspects of the variants of concern emerging in their countries, namely variants: P.1/P.2, cluster 5, 501Y.V2 and VOC202012/01, respectively. Initial analyses suggest that some variants may be more transmissible, possibly due to mutations that improve the virus's ability to bind to human cells, but available studies have found that the modes of transmission have not changed.

SARS-CoV-2 incidence and hospitalizations in a number of countries where VOC202012/01 and 501Y.V2 are circulating has started to decline in recent weeks, demonstrating the effectiveness of public health and social measures for controlling transmission of these variants.

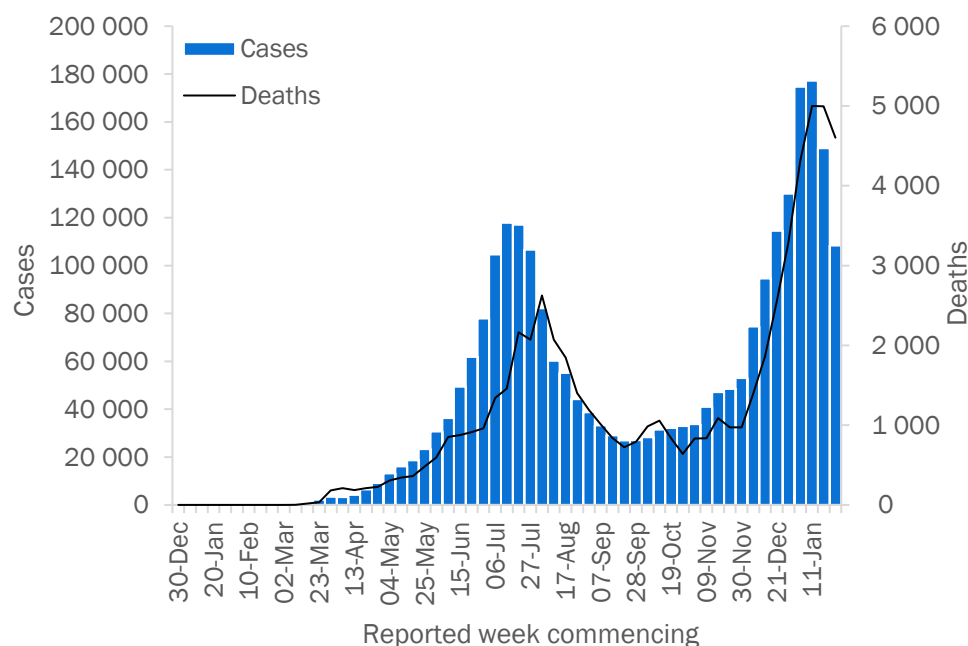
The emergence of new variants has highlighted the importance for everyone to continue to comply with local and national public health and social measures, and to take simple precautions, such as physical distancing, wearing a mask, keeping rooms well ventilated, avoiding crowds, cleaning your hands, and coughing into a bent elbow or tissue (see also [Protect yourself and others from COVID-19](#)). It remains critical to increase diagnostic capacity and strategic genetic sequencing of SARS-CoV-2 where capacity allows, and continue to share sequence data internationally in a timely manner. Genetic sequencing should be considered for a subset of SARS-CoV-2 cases in each country, especially among outbreaks or clusters where transmission and/or severity may appear unusual. WHO has recently issued guidance for SARS-CoV-2 suggesting how to apply the use sequencing to monitor virus evolution in addition to epidemiological and virologic surveillance sequencing ([SARS-CoV-2 genomic sequencing for public health goals: Interim guidance](#); [Genomic sequencing of SARS-CoV-2: a guide to implementation for maximum impact on public health](#)).

## Situation by WHO Region

### African Region

In the past week, the African Region reported over 108 000 cases and just over 4600 deaths, a 27% decrease in cases and an 8% decrease in deaths respectively compared to the previous week. Cases have decreased for two consecutive weeks. The highest numbers of new cases were reported in South Africa (44 397 new cases; 74.9 new cases per 100 000 population; a 44% decrease), Nigeria (9955 new cases; 4.8 new cases per 100 000; a 15% decrease) and Zambia (8760 new cases; 47.7 new cases per 100 000; a 3% increase).

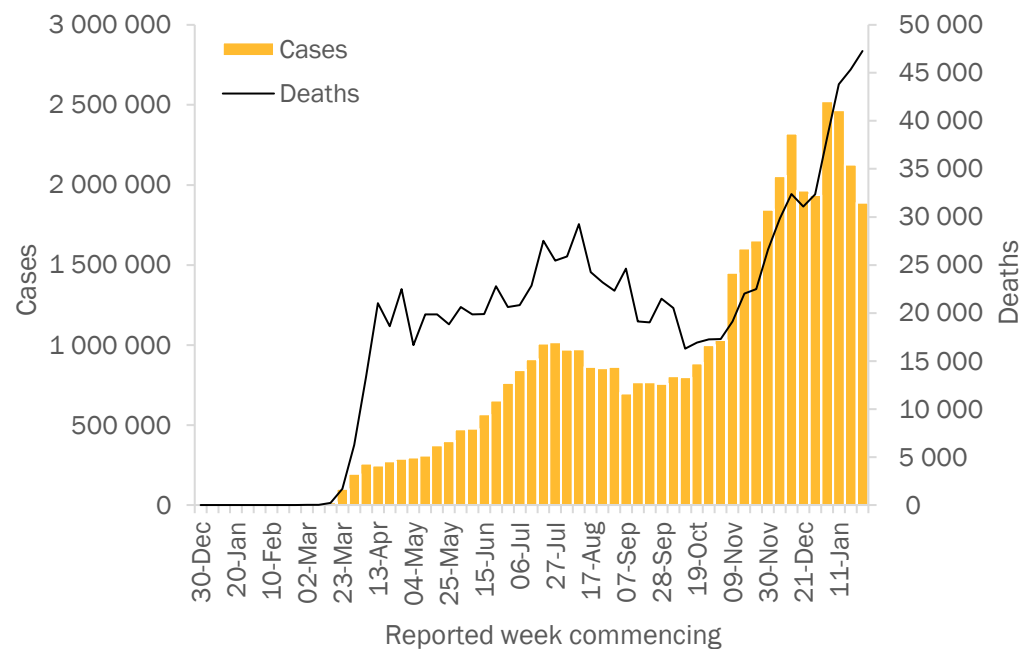
The countries reporting the highest number of new deaths in the past week were South Africa (3377 new deaths; 5.7 new deaths per 100 000; a 9% decrease), Zimbabwe (219 new deaths; 1.5 new deaths per 100 000; a 25% decrease) and Malawi (217 new deaths; 1.1 new deaths per 100 000; a 28% increase).



### Region of the Americas

Over 1.8 million new cases and over 47 000 new deaths were reported in the Region of the Americas this week, a decrease of 11% and an increase of 4% respectively compared to the previous week. The highest numbers of new cases were reported from the United States of America (1 072 287 new cases; 324.0 new cases per 100 000 population; a 15% decrease), Brazil (364 593 new cases; 171.5 new cases per 100 000; a 1% increase) and Mexico (109 603 new cases; 85.0 new cases per 100 000; an 11% decrease).

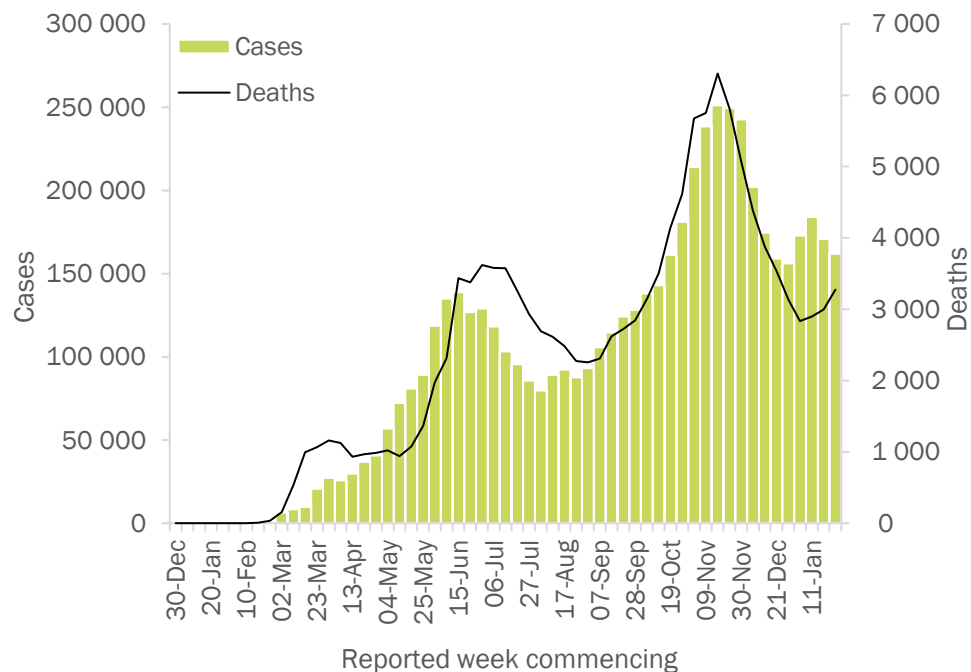
The highest numbers of deaths were reported from the same countries, the United States of America (22 506 new deaths; 6.8 new deaths per 100 000; a 4% increase), Mexico (8965 new deaths; 7.0 new deaths per 100 000; a 4% increase) and Brazil (7423 new deaths; 3.5 new deaths per 100 000; a 6% increase).



## Eastern Mediterranean Region

In the past week, the Eastern Mediterranean Region reported over 161 000 new cases, a decrease of 5% compared to last week. The region reported 3200 new deaths, a 9% increase. The three countries reporting the highest numbers of new cases continue to be the Islamic Republic of Iran (44 699 new cases, 53.2 new cases per 100 000 population, a 5% increase), Lebanon (22 326 new cases, 327.1 new cases per 100 000, a 19% decrease) and United Arab Emirates (26 285 new cases, 265.8 new cases per 100 000, 7% increase).

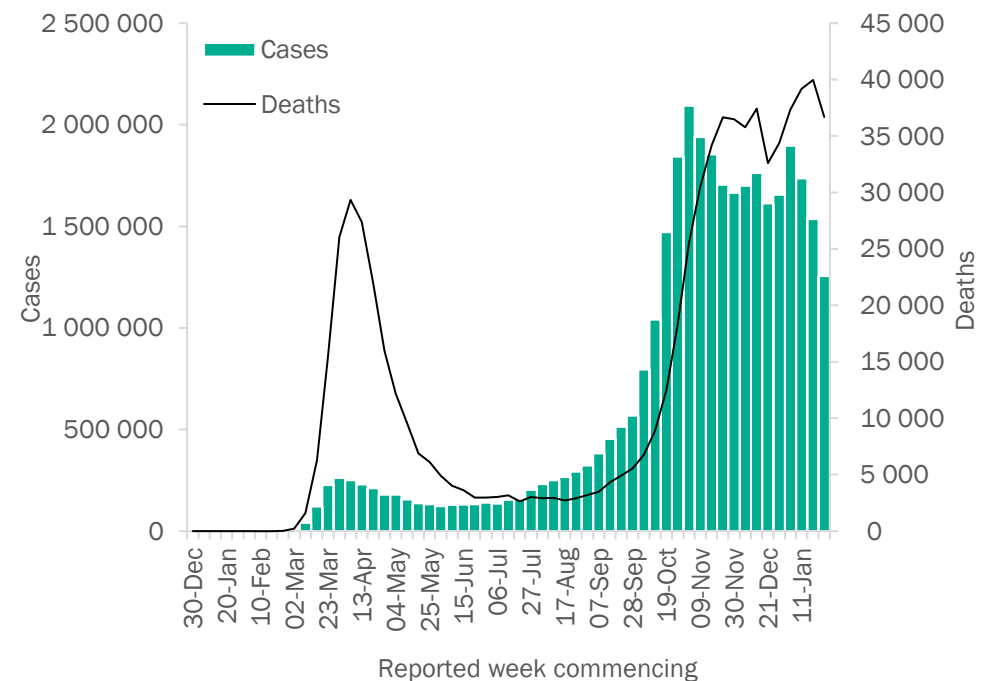
The highest numbers of new deaths were reported in Lebanon (751 new deaths, 11.0 new death per 100 000, an 81% increase), Iran (595 new deaths, 0.7 new death per 100 000 population, a 3% increase), and Tunisia (526 new deaths, 4.5 new death per 100 000, a 2% decrease).



## European Region

The European Region reported over 1.2 million new cases and over 36 000 new deaths, a decrease of 18% and 8% respectively when compared to the previous week. The three countries reporting the highest numbers of new cases were the United Kingdom (178 629 new cases, 263.1 new cases per 100 000, a 31% decrease), France (141 092 new cases; 216.2 new cases per 100 000, a 2% increase) and the Russian Federation (131 039 new cases, 89.8 new cases per 100 000, a 13% decrease).

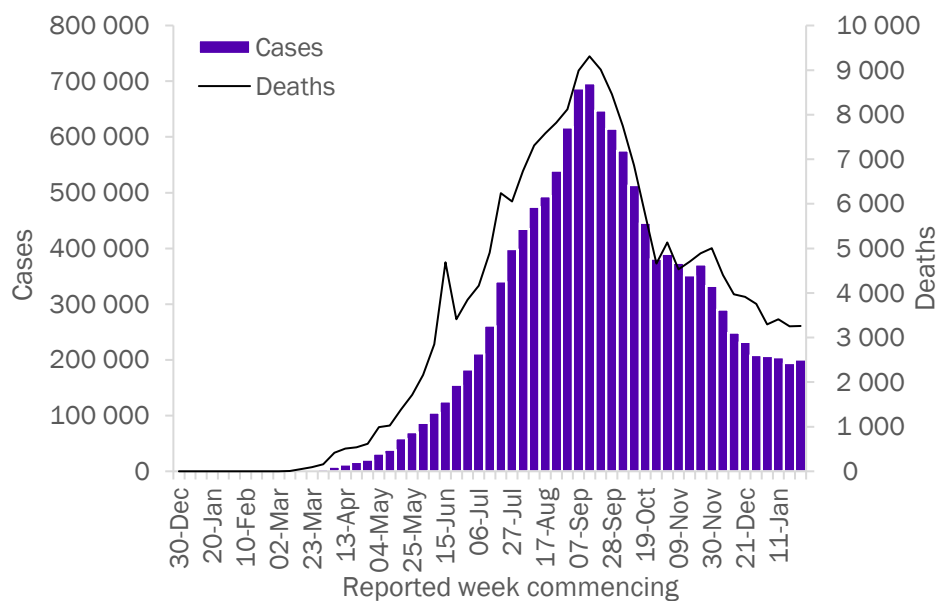
The highest numbers of deaths were reported from the United Kingdom (8242 new deaths; 12.1 new deaths per 100 000, a 6% decrease), Germany (5075 new deaths; 6.1 new deaths per 100 000, a 7% decrease) and the Russian Federation (3720 new deaths; 2.5 new deaths per 100 000, a 5% decrease).



## South-East Asia Region

Following slow declines in the number of new cases in the South-East Asia Region in recent weeks, there was a plateau in newly reported cases (200 000 new cases, 3% increase from last week), and deaths (3000 new deaths, 0% change) this week. The three countries reporting the highest numbers of new cases and new deaths were India (91 650 new cases; 6.6 new cases per 100 000, a 5% decrease), Indonesia (88 839 new cases; 32.5 new cases per 100 000; a 10% increase) and Sri Lanka (5706 new cases; 26.6 new cases per 100 000; an 8% increase).

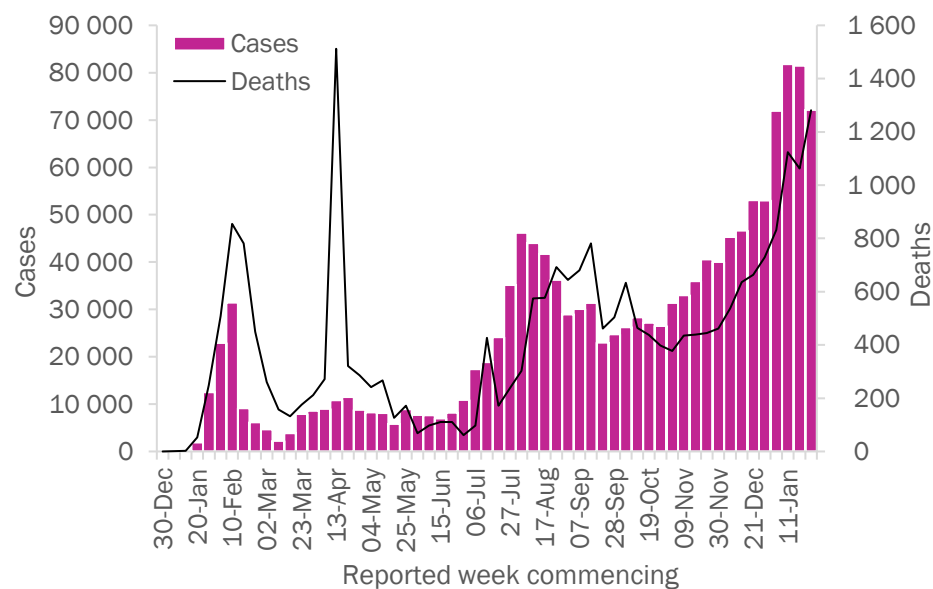
The three countries reporting the highest numbers of new deaths this week were Indonesia (2064 new deaths; 0.8 new deaths per 100 000, a 9% increase), India (935 new deaths; <0.1 new deaths per 100 000, a 12% decrease) and Bangladesh (108 new deaths; <0.1 new deaths per 100 000; a 10% decrease).



## Western Pacific Region

The Western Pacific Region reported 72 000 new cases the past week, an 11% decrease compared the previous week, while a marked (21%) increase was seen in the number of new deaths, with over 1200 deaths reported this week. The three countries reporting the highest numbers of new cases in the region this week were Malaysia (29 206 new cases; 90.2 new cases per 100 000, a 15% decrease), Japan (26 081 new cases; 20.6 new cases per 100 000, a 32% decrease), and the Philippines (11 837 new cases; 10.8 new cases per 100 000, a 9% decrease).

The three countries reporting the highest numbers of new deaths this week were Japan (635 new deaths; 0.5 new deaths per 100 000, an 8% increase), the Philippines (479 new deaths; 0.4 new deaths per 100 000, an 11% increase) and Malaysia (79 new deaths; 0.2 new deaths per 100 000, a 56% increase).



**Table 2. COVID-19 confirmed cases and deaths reported in the last seven days by countries, territories and areas, and WHO Region, as of 31 January 2021\*\***

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
<b>Africa</b>	<b>108 391</b>	<b>2 570 474</b>	<b>229.1</b>	<b>4 602</b>	<b>62 504</b>	<b>5.6</b>	
South Africa	44 397	1 449 236	2 443.5	3 377	43 951	74.1	Community transmission
Nigeria	9 955	130 557	63.3	83	1 578	0.8	Community transmission
Zambia	8 760	53 352	290.2	118	745	4.1	Community transmission
Mozambique	6 077	37 705	120.6	66	363	1.2	Community transmission
Ghana	5 312	65 427	210.6	44	405	1.3	Community transmission
Malawi	5 058	23 497	122.8	217	687	3.6	Community transmission
Ethiopia	3 723	137 021	119.2	28	2 091	1.8	Community transmission
Botswana	2 663	21 293	905.5	46	134	5.7	Community transmission
Rwanda	2 471	15 118	116.7	21	193	1.5	Community transmission
Zimbabwe	2 264	33 271	223.9	219	1 193	8.0	Community transmission
Algeria	1 753	107 122	244.3	27	2 888	6.6	Community transmission
Senegal	1 753	26 213	156.6	52	621	3.7	Community transmission
Namibia	1 615	33 828	1 331.3	33	350	13.8	Community transmission
Côte d'Ivoire	1 566	28 178	106.8	7	152	0.6	Community transmission
Eswatini	1 336	15 666	1 350.3	104	562	48.4	Community transmission
Kenya	777	100 675	187.2	15	1 755	3.3	Community transmission
Democratic Republic of the Congo	735	22 603	25.2	11	671	0.7	Community transmission
Lesotho	622	8 278	386.4	37	160	7.5	Community transmission
Burkina Faso	613	10 580	50.6	11	120	0.6	Community transmission
Cabo Verde	567	13 981	2 514.6	9	133	23.9	Community transmission
Uganda	489	39 533	86.4	7	324	0.7	Community transmission
Gabon	470	10 748	482.9	1	68	3.1	Community transmission
Comoros	458	2 718	312.6	20	90	10.3	Community transmission
Madagascar	442	18 743	67.7	6	279	1.0	Community transmission
Angola	415	19 782	60.2	7	464	1.4	Community transmission
Sierra Leone	408	3 528	44.2	2	79	1.0	Community transmission



Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Togo	405	5 041	60.9	3	77	0.9	Community transmission
Mauritania	238	16 460	354.0	8	418	9.0	Community transmission
Chad	210	3 347	20.4	3	118	0.7	Community transmission
Eritrea	195	2 135	60.2	1	7	0.2	Sporadic cases
Niger	195	4 516	18.7	8	159	0.7	Community transmission
South Sudan	188	3 961	35.4	0	64	0.6	Community transmission
Guinea	175	14 475	110.2	1	82	0.6	Community transmission
Burundi	160	1 632	13.7	0	2	0.0	Community transmission
Seychelles	153	1 186	1 205.9	0	3	3.1	Clusters of cases
Benin	143	3 786	31.2	0	48	0.4	Community transmission
Gambia	132	4 090	169.2	0	128	5.3	Community transmission
Equatorial Guinea	115	5 516	393.2	0	86	6.1	Community transmission
Mali	104	8 069	39.8	7	330	1.6	Community transmission
Congo	93	7 887	142.9	0	117	2.1	Community transmission
Guinea-Bissau	92	2 623	133.3	0	45	2.3	Community transmission
Sao Tome and Principe	74	1 256	573.1	0	17	7.8	Community transmission
Liberia	25	1 939	38.3	0	84	1.7	Community transmission
Mauritius	12	568	44.7	0	10	0.8	Sporadic cases
Central African Republic	1	4 981	103.1	0	63	1.3	Community transmission
Cameroon	0	29 617	111.6	0	462	1.7	Community transmission
United Republic of Tanzania	0	509	0.9	0	21	0.0	Pending
<b>Territories<sup>iii</sup></b>							
Mayotte	687	8 231	3 017.1	2	61	22.4	Clusters of cases
Réunion	295	9 996	1 116.5	1	46	5.1	Clusters of cases
<b>Americas</b>	<b>1 888 070</b>	<b>45 345 051</b>	<b>4 433.5</b>	<b>47 277</b>	<b>1 047 171</b>	<b>102.4</b>	
United States of America	1 072 287	25 676 612	7 757.2	22 506	433 173	130.9	Community transmission
Brazil	364 593	9 118 513	4 289.9	7 423	222 666	104.8	Community transmission
Mexico	109 603	1 841 893	1 428.6	8 965	156 579	121.4	Community transmission
Colombia	90 215	2 077 633	4 083.2	2 698	53 284	104.7	Community transmission
Argentina	61 532	1 915 362	4 237.9	1 200	47 775	105.7	Community transmission

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Peru	37 779	1 125 875	3 414.7	1 259	40 686	123.4	Community transmission
Canada	33 386	770 793	2 042.3	973	19 801	52.5	Community transmission
Chile	28 253	722 900	3 781.6	485	18 339	95.9	Community transmission
Bolivia (Plurinational State of)	15 135	213 392	1 828.1	355	10 226	87.6	Community transmission
Ecuador	11 547	249 779	1 415.7	255	14 851	84.2	Community transmission
Panama	10 460	318 253	7 375.9	241	5 221	121.0	Community transmission
Dominican Republic	10 046	212 553	1 959.4	133	2 646	24.4	Community transmission
Honduras	6 928	146 110	1 475.2	136	3 575	36.1	Community transmission
Paraguay	5 516	131 886	1 849.1	108	2 693	37.8	Community transmission
Guatemala	5 228	159 118	888.2	162	5 618	31.4	Community transmission
Cuba	5 047	25 674	226.7	22	213	1.9	Clusters of cases
Uruguay	4 359	40 529	1 166.7	61	425	12.2	Community transmission
Costa Rica	3 968	193 276	3 794.1	86	2 604	51.1	Community transmission
Venezuela (Bolivarian Republic of)	2 981	125 776	442.3	41	1 177	4.1	Community transmission
El Salvador	1 317	53 989	832.4	63	1 614	24.9	Community transmission
Jamaica	755	15 527	524.4	12	348	11.8	Community transmission
Haiti	434	11 533	101.1	2	245	2.1	Community transmission
Saint Lucia	425	1 195	650.8	3	13	7.1	Sporadic cases
Suriname	419	8 364	1 425.8	6	154	26.3	Clusters of cases
Guyana	385	7 528	957.1	5	175	22.2	Clusters of cases
Barbados	255	1 498	521.3	3	12	4.2	Community transmission
Belize	177	11 877	2 987.0	11	301	75.7	Community transmission
Saint Vincent and the Grenadines	176	896	807.6	0	2	1.8	Clusters of cases
Trinidad and Tobago	77	7 533	538.3	1	134	9.6	Community transmission
Bahamas	64	8 174	2 078.6	1	176	44.8	Clusters of cases
Nicaragua	39	4 992	75.4	1	169	2.6	Community transmission
Antigua and Barbuda	23	218	222.6	1	7	7.1	Sporadic cases
Dominica	4	117	162.5	0	0	0.0	Clusters of cases

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Saint Kitts and Nevis	2	37	69.6	0	0	0.0	Sporadic cases
Grenada	1	148	131.5	0	1	0.9	Sporadic cases
<b>Territories<sup>iii</sup></b>							
Puerto Rico	3 333	93 406	3 265.0	52	1 823	63.7	Community transmission
French Guiana	419	16 083	5 384.7	0	76	25.4	Community transmission
Aruba	235	6 858	6 423.4	6	58	54.3	Community transmission
Turks and Caicos Islands	215	1 459	3 768.3	1	8	20.7	Clusters of cases
Sint Maarten	114	1 822	4 248.9	0	27	63.0	Community transmission
Guadeloupe	100	9 156	2 288.3	0	157	39.2	Community transmission
Saint Martin	98	1 289	3 334.3	0	12	31.0	Community transmission
United States Virgin Islands	63	2 398	2 296.4	0	24	23.0	Community transmission
Curaçao	37	4 574	2 787.4	0	20	12.2	Community transmission
Bonaire	12	362	1 730.8	0	3	14.3	Community transmission
Cayman Islands	7	390	593.4	0	2	3.0	Sporadic cases
Bermuda	5	691	1 109.6	0	12	19.3	Sporadic cases
British Virgin Islands	4	141	466.3	0	1	3.3	Clusters of cases
Saint Pierre and Miquelon	4	24	414.2	0	0	0.0	Clusters of cases
Falkland Islands (Malvinas)	3	40	1 148.4	0	0	0.0	No cases
Saint Barthélemy	3	379	3 834.1	0	0	0.0	Sporadic cases
Anguilla	2	17	113.3	0	0	0.0	Sporadic cases
Martinique	0	6 370	1 697.5	0	44	11.7	Community transmission
Montserrat	0	13	260.1	0	1	20.0	No cases
Saba	0	6	310.4	0	0	0.0	Sporadic cases
Sint Eustatius	0	20	637.1	0	0	0.0	Sporadic cases
<b>Eastern Mediterranean</b>	<b>161 943</b>	<b>5 669 940</b>	<b>775.8</b>	<b>3 272</b>	<b>134 189</b>	<b>18.4</b>	
Iran (Islamic Republic of)	44 699	1 411 731	1 680.8	595	57 889	68.9	Community transmission
United Arab Emirates	26 285	300 661	3 039.9	55	838	8.5	Community transmission
Lebanon	22 326	298 913	4 379.4	751	3 031	44.4	Community transmission
Pakistan	12 396	543 214	245.9	376	11 623	5.3	Community transmission
Tunisia	12 154	207 468	1 755.4	526	6 680	56.5	Community transmission

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Jordan	6 155	325 674	3 191.9	87	4 304	42.2	Community transmission
Iraq	6 052	618 922	1 538.7	53	13 041	32.4	Community transmission
Libya	5 110	117 650	1 712.2	105	1 842	26.8	Community transmission
Morocco	4 922	470 691	1 275.2	131	8 259	22.4	Clusters of cases
Egypt	4 275	165 418	161.6	361	9 263	9.1	Clusters of cases
Kuwait	3 721	164 622	3 854.8	7	959	22.5	Community transmission
Bahrain	3 170	102 626	6 031.2	5	372	21.9	Clusters of cases
Qatar	2 212	150 984	5 240.6	0	248	8.6	Community transmission
Saudi Arabia	1 628	367 813	1 056.5	22	6 372	18.3	Sporadic cases
Oman	1 242	133 728	2 618.7	10	1 527	29.9	Community transmission
Sudan	579	29 449	67.2	69	1 807	4.1	Community transmission
Syrian Arab Republic	441	13 998	80.0	37	916	5.2	Community transmission
Afghanistan	428	55 023	141.3	22	2 400	6.2	Clusters of cases
Somalia	30	4 784	30.1	0	130	0.8	Community transmission
Djibouti	13	5 931	600.3	1	62	6.3	Clusters of cases
Yemen	2	2 124	7.1	0	616	2.1	Community transmission
<b>Territories<sup>iii</sup></b>							
occupied Palestinian territory	4 103	178 516	3 499.3	59	2 010	39.4	Community transmission
<b>Europe</b>	<b>1 255 352</b>	<b>34 276 814</b>	<b>3 672.2</b>	<b>36 674</b>	<b>745 590</b>	<b>79.9</b>	
The United Kingdom	178 629	3 796 092	5 591.9	8 242	105 571	155.5	Community transmission
France	141 092	3 126 351	4 789.6	2 982	75 466	115.6	Community transmission
Russian Federation	131 039	3 850 439	2 638.5	3 720	73 182	50.1	Clusters of cases
Spain	109 866	2 705 001	5 785.5	1 153	57 806	123.6	Community transmission
Italy	86 598	2 541 783	4 203.9	3 117	88 279	146.0	Clusters of cases
Portugal	86 549	711 018	6 973.0	1 985	12 179	119.4	Clusters of cases
Germany	81 427	2 216 363	2 645.3	5 075	56 945	68.0	Community transmission
Czechia	47 157	984 774	9 195.8	939	16 308	152.3	Community transmission
Turkey	46 573	2 470 901	2 929.7	932	25 865	30.7	Community transmission

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Israel	45 194	637 242	7 362.2	406	4 722	54.6	Community transmission
Poland	37 940	1 513 385	3 998.7	1 817	37 180	98.2	Community transmission
Netherlands	31 069	974 761	5 688.8	455	13 958	81.5	Community transmission
Ukraine	27 643	1 219 455	2 788.4	846	22 707	51.9	Community transmission
Romania	17 724	726 918	3 778.6	542	18 264	94.9	Community transmission
Sweden	16 073	566 957	5 613.8	76	11 591	114.8	Community transmission
Belgium	15 503	710 153	6 127.5	283	21 092	182.0	Community transmission
Slovakia	13 437	249 913	4 577.5	574	4 642	85.0	Clusters of cases
Serbia	11 612	393 897	5 656.4	132	4 000	57.4	Community transmission
Belarus	10 711	246 570	2 609.4	69	1 708	18.1	Community transmission
Kazakhstan	9 953	235 844	1 256.0	91	3 126	16.6	Clusters of cases
Austria	9 705	409 892	4 551.1	318	7 636	84.8	Community transmission
Ireland	9 119	195 303	3 955.3	345	3 292	66.7	Community transmission
Slovenia	8 593	166 473	8 007.6	124	3 752	180.5	Clusters of cases
Switzerland	8 120	518 759	5 994.0	138	8 601	99.4	Community transmission
Hungary	8 012	367 586	3 805.1	556	12 524	129.6	Community transmission
Lithuania	5 915	182 539	6 705.3	154	2 803	103.0	Community transmission
Albania	5 810	77 251	2 684.4	59	1 369	47.6	Clusters of cases
Latvia	5 212	65 708	3 483.6	83	1 180	62.6	Community transmission
Greece	4 827	156 473	1 501.2	157	5 779	55.4	Community transmission
Georgia	4 593	258 111	6 470.3	123	3 178	79.7	Community transmission
Denmark	4 178	198 095	3 420.0	137	2 106	36.4	Community transmission
Bulgaria	3 922	218 618	3 146.3	217	9 028	129.9	Clusters of cases
Republic of Moldova	3 576	159 513	3 954.3	87	3 434	85.1	Community transmission
Croatia	3 506	232 426	5 661.7	200	5 027	122.5	Community transmission
Estonia	3 492	44 208	3 332.6	43	419	31.6	Clusters of cases
Montenegro	3 034	61 719	9 826.8	37	805	128.2	Clusters of cases
Finland	2 068	44 402	801.4	23	671	12.1	Community transmission
Bosnia and Herzegovina	2 051	121 891	3 715.3	127	4 696	143.1	Community transmission
North Macedonia	2 047	92 518	4 440.8	69	2 848	136.7	Community transmission

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Norway	2 010	62 575	1 154.3	19	563	10.4	Community transmission
Azerbaijan	1 378	230 066	2 269.1	54	3 126	30.8	Clusters of cases
Malta	1 245	17 903	4 054.6	16	267	60.5	Clusters of cases
Armenia	990	167 026	5 636.6	41	3 080	103.9	Community transmission
Luxembourg	966	50 547	8 074.9	15	579	92.5	Community transmission
Cyprus	883	30 770	2 548.5	14	197	16.3	Clusters of cases
Kyrgyzstan	629	84 529	1 295.6	12	1 412	21.6	Clusters of cases
Andorra	386	9 885	12 793.6	5	101	130.7	Community transmission
Uzbekistan	336	78 711	235.2	0	621	1.9	Clusters of cases
San Marino	151	3 025	8 913.3	2	67	197.4	Community transmission
Monaco	130	1 475	3 758.5	4	12	30.6	Sporadic cases
Liechtenstein	50	2 561	6 715.3	0	46	120.6	Sporadic cases
Iceland	21	6 002	1 758.9	0	29	8.5	Community transmission
Holy See	0	26	3 213.8	0	0	0.0	Sporadic cases
Tajikistan	0	13 714	143.8	0	91	1.0	Pending
<b>Territories<sup>iii</sup></b>							
Kosovo	2 235	59 891	3 219.3	42	1 482	79.7	Community transmission
Gibraltar	191	4 096	12 157.5	14	73	216.7	Clusters of cases
Guernsey	139	449	710.5	0	13	20.6	Community transmission
Jersey	39	3 143	2 888.8	3	66	60.7	Community transmission
Faroe Islands	2	654	1 338.4	0	1	2.0	Sporadic cases
Isle of Man	2	434	510.4	0	25	29.4	No cases
Greenland	0	30	52.8	0	0	0.0	No cases
<b>South-East Asia</b>	<b>200 219</b>	<b>12 856 723</b>	<b>636.0</b>	<b>3 258</b>	<b>197 707</b>	<b>9.8</b>	
India	91 650	10 746 183	778.7	935	154 274	11.2	Clusters of cases
Indonesia	88 839	1 066 313	389.8	2 064	29 728	10.9	Community transmission
Sri Lanka	5 706	63 293	295.6	33	313	1.5	Clusters of cases
Thailand	5 282	18 782	26.9	4	77	0.1	Clusters of cases

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Bangladesh	3 444	534 770	324.7	108	8 111	4.9	Community transmission
Myanmar	2 766	139 864	257.1	80	3 125	5.7	Clusters of cases
Nepal	1 674	270 854	929.6	33	2 027	7.0	Clusters of cases
Maldives	851	15 736	2 911.1	1	51	9.4	Clusters of cases
Bhutan	4	858	111.2	0	1	0.1	Clusters of cases
Timor-Leste	3	70	5.3	0	0	0.0	Sporadic cases
<b>Western Pacific</b>	<b>72 135</b>	<b>1 420 024</b>	<b>72.3</b>	<b>1 281</b>	<b>24 588</b>	<b>1.3</b>	
Malaysia	29 206	209 661	647.8	79	746	2.3	Clusters of cases
Japan	26 081	386 742	305.8	635	5 654	4.5	Clusters of cases
Philippines	11 837	523 516	477.7	479	10 669	9.7	Community transmission
Republic of Korea	3 122	78 203	152.5	71	1 420	2.8	Clusters of cases
China	946	100 877	6.9	13	4 823	0.3	Clusters of cases
Singapore	247	59 507	1 017.2	0	29	0.5	Sporadic cases
Viet Nam	233	1 781	1.8	0	35	0.0	Clusters of cases
Mongolia	131	1 742	53.1	0	2	0.1	Clusters of cases
Australia	45	28 806	113.0	0	909	3.6	Clusters of cases
New Zealand	21	1 947	40.4	0	25	0.5	Clusters of cases
Cambodia	7	465	2.8	0	0	0.0	Sporadic cases
Brunei Darussalam	5	180	41.1	0	3	0.7	Sporadic cases
Papua New Guinea	2	851	9.5	0	9	0.1	Community transmission
Lao People's Democratic Republic	1	44	0.6	0	0	0.0	Sporadic cases
Fiji	0	55	6.1	0	2	0.2	Sporadic cases
Solomon Islands	0	17	2.5	0	0	0.0	No cases
<b>Territories<sup>iii</sup></b>							
French Polynesia	208	18 060	6 429.2	3	131	46.6	Sporadic cases
Guam	39	7 379	4 372.1	1	129	76.4	Clusters of cases
New Caledonia	3	47	16.5	0	0	0.0	Sporadic cases
Wallis and Futuna	1	5	44.5	0	0	0.0	Sporadic cases
Marshall Islands	0	4	6.8	0	0	0.0	No cases

Reporting Country/Territory/Area <sup>i</sup>	New cases in last 7 days	Cumulative cases	Cumulative cases per 100 thousand population	New deaths in last 7 days	Cumulative deaths	Cumulative deaths per 100 thousand population	Transmission classification <sup>ii</sup>
Northern Mariana Islands (Commonwealth of the)	0	132	229.3	0	2	3.5	Pending
Samoa	0	2	1.0	0	0	0.0	No cases
Vanuatu	0	1	0.3	0	0	0.0	No cases
<b>Global</b>	<b>3 686 110</b>	<b>102 139 771</b>	<b>1 310.3</b>	<b>96 364</b>	<b>2 211 762</b>	<b>28.4</b>	

*\*\*See data, table and figure notes*



## Key Weekly Updates

### WHO Director-General Dr Tedros remarks

#### *On health workers and older people*

“I leave you with the challenge I set at the beginning of the week: together, we must ensure that vaccination of health workers and older people is underway in all countries within the first 100 days of this year.” [Closing remarks at 148th session of the Executive Board](#)

#### *On vaccine equity*

“Vaccine nationalism is self-defeating and inefficient, leaving the world’s poorest and most vulnerable people at risk.” The Director-General recommended three urgent actions: “First, prompt and equitable dose sharing is critical if we are to overcome this pandemic. Second, we need support to close the funding gap of 26 billion US dollars for the ACT Accelerator this year, including 7.8 billion dollars for COVAX. If fully funded, the ACT Accelerator would return up to 166 US dollars for every dollar invested. And third, even as we work to end the pandemic, we must learn the lessons it is teaching us.” [NORAD Conference 2021, panel: Vaccine nationalism and global distribution](#) and [Closing remarks at 148th session of the Executive Board](#)

#### *Therapeutics and vaccines*

“We have identified dexamethasone to treat severe disease, which is being stockpiled for use in low and lower-middle income countries.

And the development and approval of safe and effective vaccines less than a year after the emergence of this new virus is a stunning scientific achievement. It gives us all a much-needed source of hope.” [Debate on the report “COVID-19 vaccines: ethical, legal and practical considerations](#)

### Moderna vaccine

[The Moderna COVID-19 \(mRNA-1273\) vaccine: what you need to know](#)

[Interim recommendations for use of the Moderna mRNA-1273 vaccine against COVID-19](#)

### Testing

[WHO publishes new Essential Diagnostics List and urges countries to prioritize investments in testing](#)

[The selection and use of essential in vitro diagnostics - TRS 1031](#)

### COVID-19 and oral health-care

[New videos explain how to prevent COVID-19 infection in oral health-care services](#)

### Publications

[COVID-19 Clinical management: living guidance](#)

[Laboratory biosafety guidance related to coronavirus disease \(COVID-19\): Interim guidance](#)

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## Technical guidance and other resources

- [Technical guidance](#)
- [WHO Coronavirus Disease \(COVID-19\) Dashboard](#)
- [Weekly COVID-19 Operational Updates](#)
- [WHO COVID-19 case definitions](#)
- [COVID-19 Supply Chain Inter-Agency Coordination Cell Weekly Situational Update](#)
- [Research and Development](#)
- [Online courses on COVID-19](#) in official UN languages and in [additional national languages](#)
- [The Strategic Preparedness and Response Plan](#) (SPRP) outlining the support the international community can provide to all countries to prepare and respond to the virus
- Updates from WHO regions
  - [African Region](#)
  - [Region of the Americas](#)
  - [Eastern Mediterranean Region](#)
  - [South-East Asia Region](#)
  - [European Region](#)
  - [Western Pacific Region](#)

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## Recommendations and advice for the public

- [Protect yourself](#)
- [Questions and answers](#)
- [Travel advice](#)
- [EPI-WIN](#): tailored information for individuals, organizations and communities

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## Data, table and figure notes

Data presented are based on official laboratory-confirmed COVID-19 case and deaths reported to WHO by country/territories/areas, largely based upon WHO [case definitions](#) and [surveillance guidance](#). While steps are taken to ensure accuracy and reliability, all data are subject to continuous verification and change, and caution must be taken when interpreting these data as several factors influence the counts presented, with variable underestimation of true case and death incidence, and variable delays to reflecting these data at global level. Case detection, inclusion criteria, testing strategies, reporting practices, and data cut-off and lag times differ between countries/territories/areas. A small number of countries/territories/areas report combined probable and laboratory-confirmed cases. Differences are to be expected between information products published by WHO, national public health authorities, and other sources. Due to public health authorities conducting data reconciliation exercises which remove large numbers of cases or deaths from their total counts, negative numbers may be displayed in the new cases/deaths columns as appropriate. When additional details become available that allow the subtractions to be suitably apportioned to previous days, graphics will be updated accordingly. See the [log of major changes and errata](#) for details. Prior situation reports will not be edited; see [covid19.who.int](https://covid19.who.int) for the most up-to-date data.

Global totals include 745 cases and 13 deaths reported from international conveyances.

The designations employed, and the presentation of these materials do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. Countries, territories and areas are arranged under the administering WHO region. The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by WHO in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

<sup>[1]</sup> All references to Kosovo should be understood to be in the context of the United Nations Security Council resolution 1244 (1999). In the map, number of cases of Serbia and Kosovo (UNSCR 1244, 1999) have been aggregated for visualization purposes.

<sup>i</sup> Excludes countries, territories, and areas that have never reported a confirmed COVID-19 case.

<sup>ii</sup> Transmission classification is based on a process of country/territory/area self-reporting. Classifications are reviewed on a weekly basis and may be revised as new information becomes available. Differing degrees of transmission may be present within countries/territories/areas. For further information, please see: [Considerations for implementing and adjusting public health and social measures in the context of COVID-19](#):

- No (active) cases: No new cases detected for at least 28 days (two times the maximum incubation period), in the presence of a robust surveillance system. This implies a near-zero risk of infection for the general population.
- Imported / Sporadic cases: Cases detected in the past 14 days are all imported, sporadic (e.g., laboratory acquired or zoonotic) or are all linked to imported/sporadic cases, and there are no clear signals of further locally acquired transmission. This implies minimal risk of infection for the general population.
- Clusters of cases: Cases detected in the past 14 days are predominantly limited to well-defined clusters that are not directly linked to imported cases, but which are all linked by time, geographic location and common exposures. It is assumed that there are a number of unidentified cases in the area. This implies a low risk of infection to others in the wider community if exposure to these clusters is avoided.
- Community transmission: Which encompasses a range of levels from low to very high incidence, as described below and informed by a series of indicators described in the aforementioned guidance. As these subcategorization are not currently collated at the global level, but rather intended for use by national and sub-national public health authorities for local decision-making, community transmission has not been disaggregated in this information product.
  - CT1: Low incidence of locally acquired, widely dispersed cases detected in the past 14 days, with many of the cases not linked to specific clusters; transmission may be focused in certain population sub-groups. Low risk of infection for the general population.
  - CT2: Moderate incidence of locally acquired, widely dispersed cases detected in the past 14 days; transmission less focused in certain population sub-groups. Moderate risk of infection for the general population.
  - CT3: High incidence of locally acquired, widely dispersed cases in the past 14 days; transmission widespread and not focused in population sub-groups. High risk of infection for the general population.
  - CT4: Very high incidence of locally acquired, widely dispersed cases in the past 14 days. Very high risk of infection for the general population.
- Pending: transmission classification has not been reported to WHO.

<sup>iii</sup> "Territories" include territories, areas, overseas dependencies and other jurisdictions of similar status.

# Weekly Operational Update on COVID-19

1 February 2021



Confirmed cases<sup>a</sup>  
**102 399 513**

Confirmed deaths  
**2 217 005**

## PAHO launches app that helps health workers use PPE more effectively

The Pan American Health Organization (PAHO) launched a mobile application, MedPPE, this week that provides detailed information on the personal protective



equipment that health personnel should use to guard against COVID-19, depending on their role and workplace.

MedPPE emphasizes the role and timing of health workers jobs and offers specific information to prevent the spread of COVID-19 and is available in Spanish, English, Portuguese, and French. The guidelines are aimed at all personnel working in health facilities, including security guards, administrative and cleaning personnel, transfer assistants, nurses, biomedical and imaging technicians, surgeons, and physicians, among others.

The correct use of PPE remains key to preventing infection and spread of the virus in hospital settings and to protecting essential workers in the response to the pandemic.

MedPPE provides guidance for the use of PPE according to workers' function, the level of care they provide, and the multiple environments of primary health care and hospitals.

For more information on MedPPE, click [here](#).

## Key Figures



WHO-led UN Crisis-Management Team coordinating 23 UN entities across nine areas of work



145 GOARN deployments conducted to support COVID-19 pandemic response



19 948 965 respirators shipped globally



197 343 426 medical masks shipped globally



8 540 231 face shields shipped globally



6 713 379 gowns shipped globally



35 821 900 gloves shipped globally



More than 2.5 million people registered on [OpenWHO](#) and able to access 25 topical courses in 44 languages

<sup>a</sup> For the latest data and information, see the [WHO COVID-19 Dashboard](#) and [Situation Reports](#)

## From the field:

### Ukraine conducts Intra-Action Review to adjust COVID-19 response



*Intra-Action Review in Ukraine. Credit: WHO CO Ukraine*

On 27-28 January 2021, WHO Regional Office for Europe and the Ukraine WHO Country Office supported the Ministry of Health and the Ukrainian Public Health Centre to conduct a Country Intra-Action Review (IAR) for the COVID-19 response in Ukraine. The IAR allowed to review the national functional capacity of the public health and emergency response systems and to identify practical areas for immediate remediation or continuous improvement of the current response to the COVID-19 outbreak.

During the review, over 130 participants from multisectoral teams took part in 7 groups centered around the pillars of the response, including country-level coordination, risk communication and community engagement, points of entry, national laboratories, infection prevention and control, and operation support and logistics. The format of the IAR was a mix of in person and virtual collaboration to adjust to COVID-19 prevention measures in place.

The main goal of the IAR was to support the country in reviewing the actions implemented in all the critical response areas over the past year at the national and regional levels. WHO Regional Office for Europe provided guidance on the organization of an IAR according to WHO recommendations, and helped to run and facilitate the review sessions.

The IAR will provide practical recommendations and action points identified by the participants for sustained improvement of the ongoing COVID-19 response and updating the Ukrainian Country Preparedness and Response Plan (CPRP) accordingly.



## Public health response and coordination highlights

During the United Nations (UN) Crisis Management Team (CMT) meeting on 27 January 2021, **WHO** provided an update on the SARS-COV-2 variants identified in the UK, South Africa and Brazil and noted that current vaccines appear to be effective to the variants. WHO advised the continued development of a common risk monitoring framework, building on existing detection systems, linking human/animal transmission with broader surveillance efforts.

**The Yellow House**, an independent consultant briefed on their COVID-19 Supply Chain System (CSCS) assessment, citing immense achievements made by UN partners, including **WFP, UNICEF and WHO** among others, in the procurement and delivery of large quantities of critical COVID-19 supplies to countries worldwide.

On external communications, **WHO** informed that it is working with UNICEF on vaccine equity campaigns and asked the rest of the UN system to draw attention to the success in procuring and delivering large quantities of essential goods during a critical phase of the pandemic.

## COVID-19 Preparedness

### Mauritius conducts a COVID-19 vaccine simulation exercise prior to the national vaccine roll-out.

In collaboration with the Ministry of Health, the WHO Country Office in Mauritius conducted a discussion-based tabletop exercise on 25 January 2021. The exercise focused on the national deployment and vaccination plan (NDVP) and tested the planning assumptions before national vaccination roll-out. The exercise was carried out using the [COVID-19 vaccine tabletop exercise](#) packages that were developed and published by WHO.



Start of the COVID-19 national vaccination roll-out in Mauritius. Photo Credit: WHO/Mauritius

The exercise focused on potential regulatory and safety issues, as well as the overall strategy, supply chain and communications aspects of vaccine roll-out. It helped test the regulatory frameworks and systems, as well as procedures and oversight for monitoring vaccine safety after it is deployed, while the strategy, supply chain and communications aspects helped identify the target populations and test vaccination strategies, manage supply chains, and prepare communication plans to promote vaccine acceptance and uptake.

Around 25 participants joined in the exercise including from National Regulatory Agency, decision-makers, logisticians, warehouse & logistic managers and communication specialists. The exercise helped to test and make final adjustments to the national vaccination strategy and plan before the national roll-out started on 26 January 2021.

Prior to the exercise, together with AFRO a brief training was provided to the MoH and Country Office staff to update them on the vaccine exercise package content and ensure smooth implementation and support. The vaccine exercise packages have been developed by the Health Security Preparedness (HSP) Department and through the collaboration with the Access to COVID-19 Tools (ACT) Accelerator's Country Readiness and Delivery (CRD) workstream.



## COVID-19 Partners platform

### Trainings for roll-out of vaccine introduction

WHO, UNICEF and partners are supporting countries in preparing for COVID-19 vaccine introduction through the Access to COVID-19 Tools (ACT) Accelerator.

The Country Readiness and Delivery (CRD) workstream – which is part of the ACT Accelerator and is included in the SPRP – has developed a [toolbox](#) with guidance, tools, and trainings.

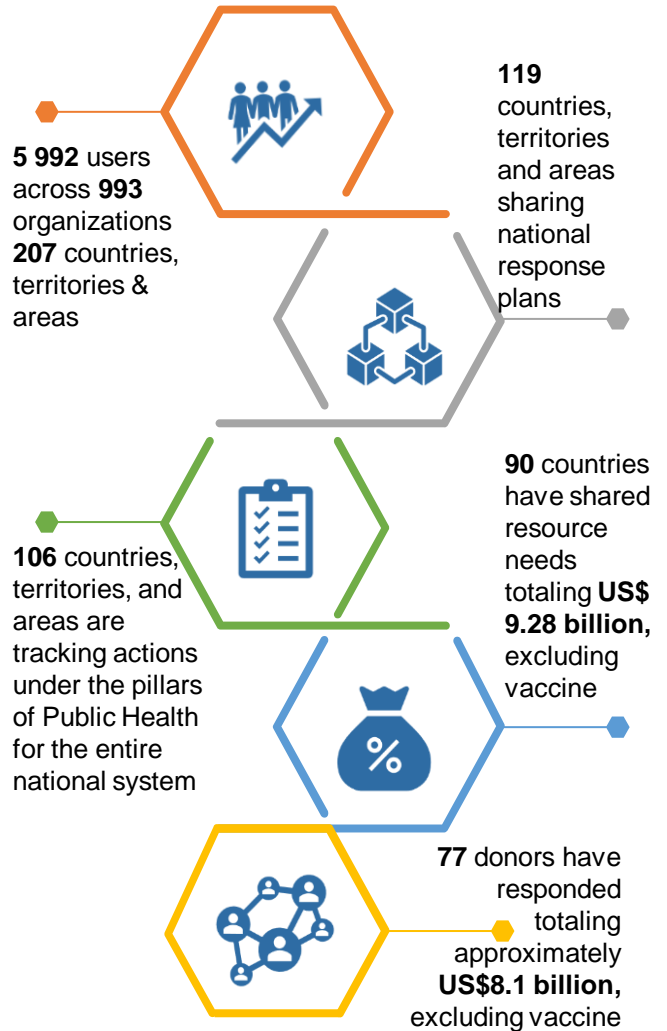
The trainings for [national/subnational focal points](#) and [health workers](#) to prepare for COVID-19 vaccine roll-out have been taken by more than 35,000 learners globally and are being translated into 12 languages. Additional trainings and resources, including for acceptance and uptake of COVID-19 vaccines and preparing for COVID-19 vaccine supply and logistics, will be added to the toolbox shortly.

With the launch of the CRD COVID-19 vaccine introduction on the Partners Platform online tool, WHO is providing technical training sessions to ensure all the new Vaccine Regional Administrators (VRA) and Vaccine Country Administrators (VCA) are able to quickly and efficiently per-

form essential tasks in the National Deployment and Vaccination Plan (NDVP) process. VRAs and VCAs are appointed by the Regional Advisors for Immunization.

In these digital training sessions, provided in English, Spanish, French and Arabic, WHO technical experts from the Partners Platform team will guide participants through the completion and uploading of the NDVP and provide an overview of the next stages of the process, including validation by a government official, Costing Technical Assistance and funding resource needs, assessment by the Regional Review Committee (RRC), and progression to allocation by the Joint Allocation Task Force.

These trainings take place from Monday, 25 January to Tuesday, 5 February. Regional Advisors for Immunization can provide the VCAs and RCAs with the training schedule. Archived recordings of these sessions will be available [here](#).





## Operations Support and Logistics

The COVID-19 pandemic has prompted an unprecedented global demand for Personal Protective Equipment (PPE), diagnostics and clinical care products.

To ensure market access for low- and middle-income countries, WHO and partners have created a COVID-19 Supply Chain System, which has delivered supplies globally

The table below reflects WHO/PAHO-procured items that have been shipped as of 29 January, 2021

Shipped items as of 29 Jan 2021	Laboratory supplies			Personal protective equipment					
	Antigen RDTs	Sample collection kits	PCR tests	Face shields	Gloves	Goggles	Gowns	Medical Masks	Respirators
Africa (AFR)	700 800	3 649 890	2 079 446	1 423 210	10 139 300	208 050	1 717 279	53 429 400	2 700 630
Americas (AMR)	6 030 050	1 019 862	10 518 766	3 333 200	4 696 000	322 940	1 613 020	55 136 330	7 669 760
Eastern Mediterranean (EMR)	840 300	1 245 910	1 843 210	914 985	6 905 000	174 480	799 322	26 317 550	1 502 095
Europe (EUR)	248 000	404 050	580 190	1 728 300	8 935 100	399 820	1 564 748	40 545 400	5 369 950
South East Asia (SEAR)	200 000	2 352 150	2 482 024	371 836	2 125 500	86 510	555 300	6 940 500	604 495
Western Pacific (WPR)		175 800	348 848	768 700	3 021 000	311 927	463 710	14 974 146	2 102 035
<b>TOTAL</b>	<b>8 019 150</b>	<b>8 847 662</b>	<b>17 852 484</b>	<b>8 540 231</b>	<b>35 821 900</b>	<b>1 503 727</b>	<b>6 713 379</b>	<b>197 343 426</b>	<b>19 948 965</b>

For further information on the **COVID-19 supply chain system**, see [here](#).



### Appeals

WHO appreciates and thanks donors for the support already provided or pledged and encourages donors to **give fully flexible funding for the SPRP** and avoid even high-level/soft geographic earmarking at e.g. regional or country level. This will allow WHO to direct resources to where they are most needed, which in some cases may be towards global procurement of supplies, intended for countries.

As of 20 January 2021

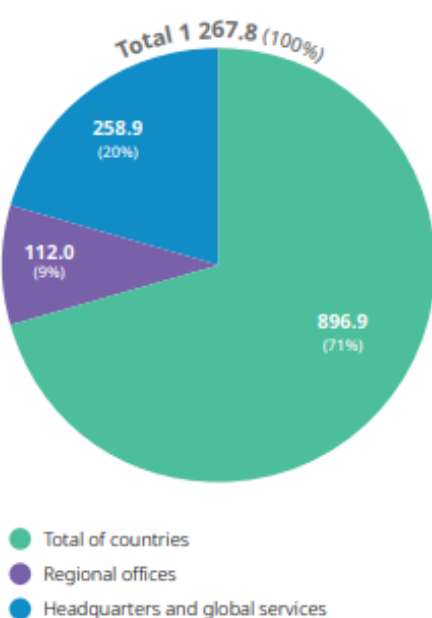
### Global Strategic Preparedness & Response Plan (SPRP)



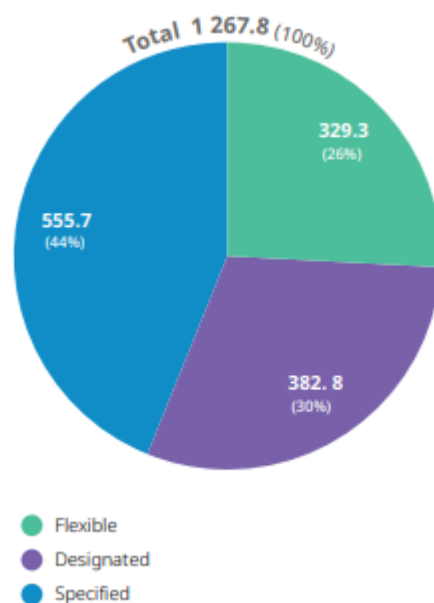
- US\$ 1.5 billion raised by WHO during 2020
- US\$ 1.3 billion projected utilization for 2020 SPRP
- US\$ 240 million raised by the COVID-19 Solidarity Response Fund
- US\$1 billion on country support and regional coordination

The status of funding raised for WHO against the SPRP can be found [here](#)

Utilization\* by type of funds by level of organization (US\$ million)



Utilization\* by type of funding by level of earmarking (US\$ million)



\*Based on interim 2020 year-end figures and estimated 2021 Q1 transition period implementation



## WHO Funding Mechanisms

### COVID-19 Solidarity Response Fund

The COVID-19 [Solidarity Response Fund](#) remains the foremost way for companies, organisations and individuals to contribute to the essential work of WHO and its partners to help countries prevent, detect and respond to the global pandemic.

By 29 January 2021, more than 659,000 [leading companies, foundations](#) and individuals from more than 190 countries had committed more than US\$ 241 million in fully flexible funding to the COVID-19 Solidarity Response Fund to support the lifesaving work of WHO and its partners.

More than US\$ 241 Million



659 000 donors

[individuals – companies – philanthropies]

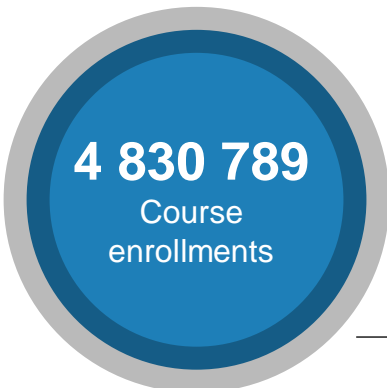
## Health Learning

WHO is expanding access to online learning for COVID-19 through its open learning platform for health emergencies, [OpenWHO.org](#).

The OpenWHO platform was launched in June 2017 and published its first COVID-19 course on 26 January 2020.

**Real-time training for COVID-19**  
Free online courses from WHO


**OpenWHO.org**



44 languages

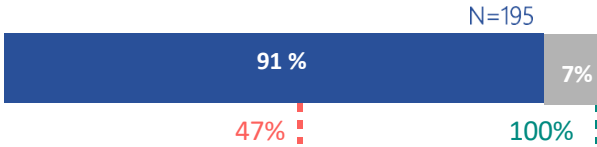
25 topical courses

Over 2.5 million certificates

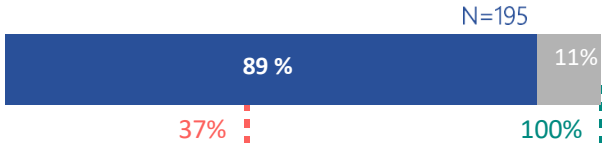


### COVID-19 Global Preparedness and Response Summary Indicators <sup>a</sup>

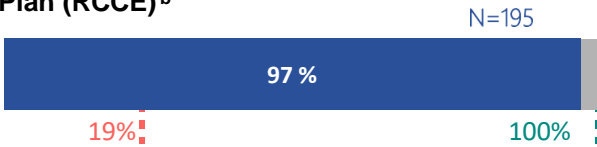
Countries have a COVID-19 preparedness and response plan



Countries have a clinical referral system in place to care for COVID-19 cases



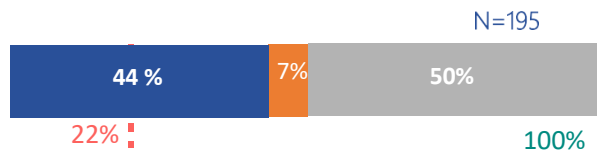
Countries have a COVID-19 Risk Communication and Community Engagement Plan (RCCE) <sup>b</sup>



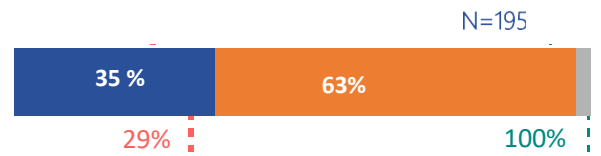
Countries that have defined essential health services to be maintained during the pandemic



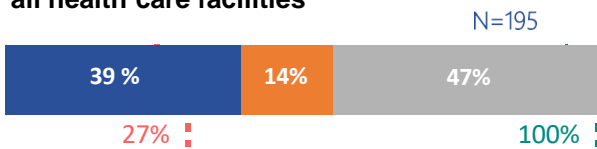
Countries have a national policy & guidelines on Infection and Prevention Control (IPC) for long-term care facilities



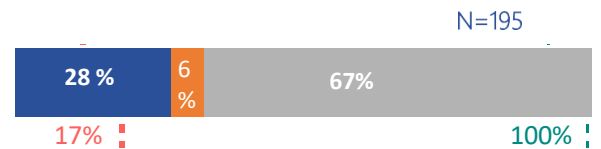
Countries in which all designated Points of Entry (PoE) have emergency contingency plans



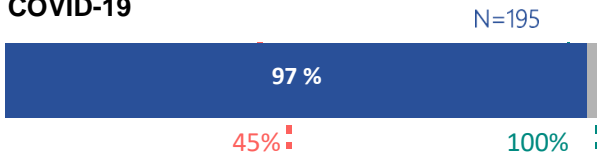
Countries with a national IPC programme & WASH standards within all health care facilities



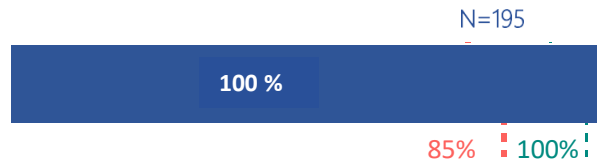
Countries have a health occupational safety plan for health care workers



Countries have a functional multi-sectoral, multi-partner coordination mechanism for COVID-19



Countries have COVID-19 laboratory testing capacity



#### Legend



Notes:

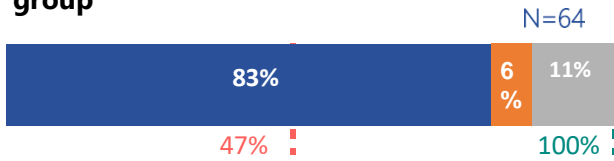
a Data collected from Member States and territories. The term "countries" should be understood as referring to "countries and territories." b Source: UNICEF and WHO



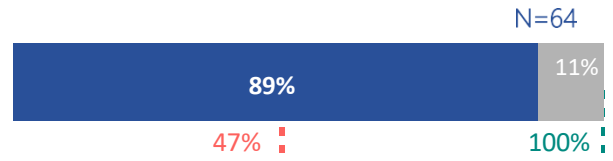
### COVID-19 Global Preparedness and Response Summary Indicators

Selected indicators within the Monitoring and Evaluation Framework apply to designated priority countries. Priority Countries are mostly defined as countries affected by the COVID-19 pandemic as included in the [Global Humanitarian and Response Plan](#). A full list of priority countries can be found [here](#).

#### Priority countries with multisectoral mental health & psychosocial support working group



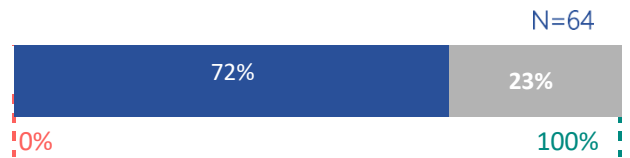
#### Priority countries with an active & implemented RCCE coordination mechanism



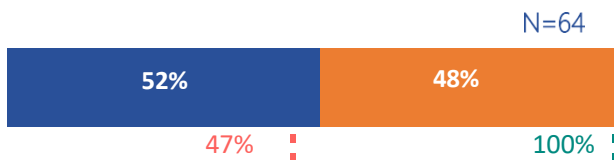
#### Priority countries that have postponed at least 1 vaccination campaign due to COVID-19<sup>c</sup>



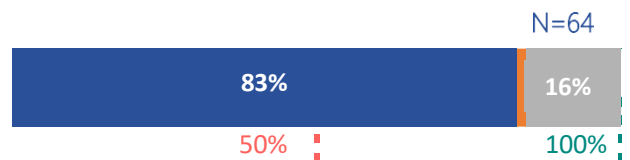
#### Priority countries with a contact tracing focal point



#### Priority countries where at least one Incident Management Support Team (IMST) member trained in essential supply forecasting



#### Priority countries with an IPC focal point for training



**Legend**

- Yes (Blue square)
- No (Orange square)
- No information (Grey square)
- Baseline value (Red dashed line)
- Target value (Green dashed line)

Notes: <sup>c</sup> Source: WHO Immunization Repository



### The Unity Studies: WHO Early Investigations Protocols

Unity studies is a global sero-epidemiological standardization initiative, which aims at increasing the evidence-based knowledge for action.

It enables any countries, in any resource setting, to gather rapidly robust data on key epidemiological parameters to understand, respond and control the COVID-19 pandemic.

The Unity standard framework is an invaluable tool for research equity. It promotes the use of standardized study designs and laboratory assays



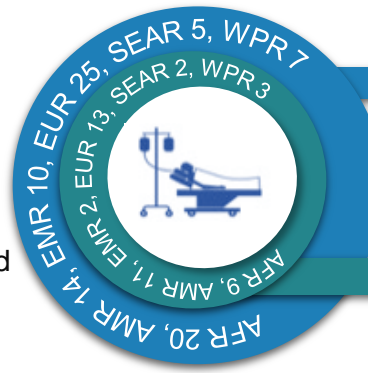
118 countries intend to implement at least one Unity Study protocol

76 countries have started implementation

### Global COVID-19 Clinical Data Platform

Global understanding of the severity, clinical features and prognostic factors of COVID-19 in different settings and populations remains incomplete.

WHO invites Member States, health facilities and other entities to participate in a global effort to collect anonymized clinical data related to hospitalized suspected or confirmed cases of COVID-19 and contribute data to the Global COVID-19 Clinical Data Platform.



81 countries intend to contribute data to the clinical platform

40 countries have started sharing data

### Leveraging the Global Influenza Surveillance and Response System

WHO recommends that countries use existing syndromic respiratory disease surveillance systems such as those for influenza like illness (ILI) or severe acute respiratory infection (SARI) for COVID-19 surveillance. Leveraging existing systems is an efficient and cost-effective approach to enhancing COVID-19 surveillance. The Global Influenza Surveillance and Response System (GISRS) is playing an important role in monitoring the spread and trends of COVID-19



In week 02, 44 countries have reported COVID-19 data from sentinel surveillance systems

43 967 sentinel surveillance specimens were tested in week 02

25.5% specimens tested were COVID-19 positive



## Key links and useful resources

- ❑ For EPI-WIN: WHO Information Network for Epidemics, click [here](#)
- ❑ For more information on COVID-19 regional response:
  - [African Regional Office](#)
  - [Regional Office of the Americas](#)
  - [European Regional Office](#)
  - [Eastern Mediterranean Regional Office](#)
  - [Southeast Asia Regional Office](#)
  - [Western Pacific Regional Office](#)
- ❑ For the WHO case definitions for public health surveillance of COVID-19 in humans caused by SARS-COV-2 infection published on 16 December 2020, click [here](#)
- ❑ For updated WHO Publications and Technical Guidance on COVID-19, click [here](#)
- ❑ For updated GOARN network activities, click [here](#)
- ❑ Updated COVID-19 Table top Exercise packages are now available online to better reflect the current situation as well as align it to the latest WHO guidance. The updated exercises include:
  - Generic table top exercise
  - Health Facility & IPC table top exercise
  - A Point of Entry (POE) table top exercise
  - Target population, supply chain and community engagement & communications table top exercise
  - The regulatory and safety issues table top exercise

All COVID-19 simulation exercises can be found [here](#)



# PUBLIC PRIVATE PARTNERSHIP

Rakna Arakshaka Lanka Ltd. - Avant Garde Maritime Services (Pvt) Ltd.

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22<sup>nd</sup> January 2021

PPP/RALL/AGMS/2021/Q1 (173)

Secretary General, International Maritime Organisation,

Secretary General, International Transport Federation,

Secretary General International Chamber of Commerce,

Secretary General, International Maritime Employers Council,

Dear Sir/Madam,

**A UNIQUE SOLUTION**  
**TO OVERCOME HUMANITARIAN CRISIS FACED BY SEAFARERS**  
**OF SHIPS WITH COVID-19 POSITIVE CASES DENIED ENTRY TO PORTS**

1 We are pleased to inform you that we are introducing a **MULTINATIONAL OFFSHORE COVID-19 TREATMENT CENTRE** positioned off the Port of Galle in Sri Lanka by **16<sup>th</sup> February 2021** to accept and treat COVID-19 afflicted seafarers from any ship passing Sri Lanka so that those ships would be able to continue trading without any interruption. Full details are attached.

2 Clinical management and treatment at the facility will be carried out by Hemas Hospitals, a government of Sri Lanka approved leading private hospital with Australian Council of Health Care Standards International (ACHSI) accreditation and certified with Integrated Management System (IMS) consisting of ISO 9001:2015, ISO 45001:2018 and ISO 15189:2012 standards.

3 Ships would be able to disembark COVID-19 afflicted seafarers who will be accepted for treatment and will be repatriated or released to join another ship only after full recovery. The whole process will be complemented by a relief crew taking over the ship in a procedure conforming to internationally accepted health protocols allowing the ship to continue trading uninterrupted. The full operation will be monitored by the Ministry of Defence of Sri Lanka.

4 We expect the introduction of the Treatment Facility would greatly relieve the burden of the international shipping industry helping ships to continue trading.



5 Full details are attached for information and dissemination as you deem fit.

Thank you.

Yours Sincerely,



**Major Nissanka Senadhipathi (Retd)**  
**On Behalf of the PPP**

**Attachment:** Full Details of Multinational Offshore COVID-19 Treatment Facility

**Copies:**

Principal Advisor to H. E. the President

Secretary, Ministry of Foreign Affairs

Secretary, Ministry of Defence

Secretary, Ministry of Health

Chairman, Sri Lanka Ports Authority

Director General of Merchant Shipping

Dr (Prof) Arjuna De Silva

CEO, Hemas Hospitals – Hemas Holdings PLC

All Shipping/Manning Agents in Sri Lanka

## A UNIQUE SOLUTION

### BY OPERATING

## A MULTINATIONAL OFFSHORE COVID-19 TREATMENT CENTRE

### TO OVERCOME HUMANITARIAN CRISIS FACED

## BY SHIPS WITH COVID-19 POSITIVE CASES DENIED ENTRY TO SEAPORTS

### 1. INTRODUCTION

- 1.1 Ships and seafarers are facing a serious problem as most seaports deny entry to ships with positive COVID-19 cases, causing those ships to remain indefinitely at sea hopelessly and helplessly without any recourse. It prevents seafarers from seeking treatment and signing off creating a **serious humanitarian crisis** and is a blatant disregard and neglect of basic human rights of seafarers who have been classified as “**key workers**” by the UN.
- 1.2 Sri Lanka is particularly concerned about the dire straits faced by seafarers, who, like everyone else, have families and loved ones; parents, children, spouses, siblings, who are as concerned of their wellbeing, and wait anxiously for their return home in healthy condition.
- 1.3 Unfortunately, most countries have been concentrating on containing COVID-19 amongst local societies whilst seafarers contracting the virus appears to have become a forgotten lot, perhaps because “**out of sight is out of mind**”.
- 1.4 There have been many instances latest of ships denied entry by many seaports hence are compelled to remain at sea aimlessly, hopelessly and helplessly with no solution, which is disconcerting.
- 1.5 Whilst this is a humanitarian crisis for seafarers, it is also a grave problem for the shipping industry as those ships are not available for trade resulting in profound economic consequences.

## 2. THE UNIQUE SOLUTION

- 2.1** This is a serious humanitarian crisis and we are proud to announce that Sri Lanka has once again risen to the occasion by introducing a unique concept of accepting those COVID-19 positive seafarers for treatment at a **Multinational Offshore COVID-19 Treatment Centre** (Treatment Centre) and repatriated once fully recovered, releasing the parent ship to continue on its trading.
- 2.2** The Treatment Centre is provided by the same Public-Private-Partnership (PPP) of Rakna Arakshaka Lanka Ltd (RALL), which is under the Sri Lanka Ministry of Defence and Avant Garde Maritime Services (Pvt) Ltd (AGMS) that operates the Offshore Crew Transit Hub (OCTH) for crew changes off the Port of Galle, Sri Lanka.
- 2.3** The Treatment Centre will be manned by well qualified, highly acclaimed and vastly experienced medical staff providing medical care of highest international standards. It is relevant that the same focus of maintaining highest international standards has made Sri Lanka to have one of the highest recovery rates of COVID-19 in the world. Seafarers also will be treated meeting the same standards, and repatriated once fully recovered.
- 2.4** Releasing the parent ship for trading will be complemented by facilitating relief crew to initially arrive at the Offshore Crew Transit Hub (OCTH) as arranged by the respective local shipping agent, be transferred to the parent ship, take over respective duties and resume trading services after disinfecting the ship.
- 2.5** The solution is provided purely as a humanitarian exercise realising the predicament faced by everyone concerned, mainly by the anxious seafarers.

## 3. FOUR SEGMENTS OF THE CONCEPT

- 3.1** Accepting Covid-19 seafarers and treating them until recovery
- 3.2** Disinfecting the ship
- 3.3** Change infected crew with relief seafarers
- 3.4** Repatriating recovered seafarers

## 4. PRELIMINARY ARRANGEMENTS

- 4.1 The PPP will accept positive COVID-19 positive seafarers or those with symptoms of it directly from ships and transfer to the fully equipped Treatment Centre. It will have 40 beds and 06 ICU beds. The medical staff of this private hospital will be supplemented by medical staff of different nationalities of high seafarer representation countries in order to overcome communication difficulties and make it more comfortable for seafarers under treatment.
- 4.2 The capacity of the Treatment Centre would be increased depending on demand.
- 4.3 The Fully equipped Treatment Centre will be established by **01<sup>st</sup> March 2021** and positioned off the Port of Galle, Sri Lanka or any other offshore location as expedient.
- 4.4 Treatment will be provided only on a membership basis.
- 4.5 Ships seeking treatment may become members of the Centre at USD 1000 per month payable 3 months in advance. Subscription for 3 months closes at 2359 hrs on 28<sup>th</sup> February 2021, 31<sup>st</sup> May 2021 and 31<sup>st</sup> August 2021 and 30<sup>th</sup> November 2021 for the three months immediately following those dates.
- 4.6 Full COVID-19 treatment for seafarers of those ships will be provided at an all-inclusive rate of USD 350 per day per seafarer. The rate includes following:
- (a) Initial testing for COVID-19 through Rapid Antigen or PCR test as appropriate.
  - (b) Evacuation from the parent ship and transfer to the Treatment Centre.
  - (c) Providing full PPE to seafarers.
  - (d) COVID-19 treatment as per international treatment protocol and related tests until full recovery. A certificate will be issued.
  - (e) Disinfecting the parent ship. A certificate will be issued.
  - (f) Transfer from the Treatment Centre to the OCTH where they will remain as per existent protocol until repatriation is arranged by the respective local shipping agent.

## 5. MEDICAL MANAGEMENT/TREATMENT PROTOCOL

5.1 The Medical management of the Treatment Centre will be by Hemas Hospitals, a leading private hospital in Sri Lanka with Australian Council of Health Care Standards International (ACHSI) accreditation and certified with Integrated Management System (IMS) consisting of following

- (a) ISO 9001:2015
- (b) ISO 14001:2015
- (c) ISO 45001:2018
- (d) ISO 15189:2012
- (e) SLS 1672:2020, the only hospital certified for COVID-19 Safety Management Systems by the Sri Lanka Standards Institute (SLSI).

5.2 The physician in overall charge is;

Dr. K.V.C Janaka, MBBS, MD, Msc, MRCP (UK)

5.3 COVID-19 Management Protocols of Hemas Hospitals is at: <https://we.tl/t-OATRqwsLz7>

5.4 Official web site of Hemas Hospitals is at [www.hemashospitals.com](http://www.hemashospitals.com)

5.5 The protocols are as follows:

- (a) Guidelines for Cleaning - 20.09.2020
- (b) Guidance for intermediate care centres on management
- (c) Infection Control Manual-Completed-23-01-2020
- (d) Protocol on wearing and removing PPE for COVID -19 suspected patients
- (e) Sri Lanka PPE COVID-19
- (f) Waste Management Policy - Floating Hospital

## **6. PROCESS**

- 6.1** Ships requiring full crew to be taken off and treated will first be taken over by key members of relief crew in full PPE accompanied by disinfecting staff. Relief crew arrives two (02) days earlier to the OCTH as arranged by the respective local shipping agent in accordance with the same procedure established and practised now for crew changes, and remain in isolation in the OCTH until the infected original crew of the parent ship is ready to be evacuated for treatment.
- 6.2** Limited number of key members of the relief crew leave OCTH in a dedicated boat attired in full PPE and embark the parent ship accompanied by disinfecting staff.
- 6.3** The infected original crew disembarks from parent ship and proceeds to the Treatment Centre in a separate dedicated boat, received at the Treatment Centre. Treatment commences.
- 6.4** Parent ship will be disinfected, which is likely to take one day.
- 6.5** In the event that only a part of the crew is required to be disembarked for treatment, PCR test swabs will still be obtained of all crew members whilst in the parent ship, taken ashore for testing, and only those tested positive will be transferred to the Treatment Centre.
- 6.6** The parent ship will still be disinfected in a similar manner of paragraph 5.4 above.
- 6.7** Balance members of the relief crew join the parent ship.
- 6.8** Parent ship sails off on usual scheduled trading.
- 6.9** COVID-19 infected seafarers will be treated and transferred to the OCTH when fully recovered. They will remain at the OCTH until repatriation as arranged by the respective local shipping agent.

## 7. CONTACT DETAILS

### 7.1 Medical

#### (a) Consultant Physician

Name	Dr.K.V.C.Janaka,MBBS,MD,MSc,MRCP(UK)
Contact No	+94773849628
Email Address	kvcjanaka@yahoo.com

#### (b) Round the Clock Medical Attendance:

Contact No	+94773849628
Email Address	kvcjanaka@yahoo.com

### 7.2 Operations

#### (a) Head of Operations:

Name	Brigadier Nishantha Wadugodapitiya
Contact No	+94773082485
Email Address	nishantha.w@avantmaritime.com

#### (b) Round the Clock Operations Room

Contact No	+112053140
Email Address	crewchange@avantmaritime.com

### 7.3 Administration

#### (a) Head of Administration:

Name	Major General Jayantha Gunarathne
Contact No	+94770136638
Email Address	jayantha@avantmaritime.com

#### (b) Round the clock Administration Centre

Name	Major General Rasika Karunathilake
Contact No	+947773141188
Email Address	rasika@avantmaritime.com



# Marine Safety Information Bulletin

Commandant  
U.S. Coast Guard  
Inspections and Compliance Directorate  
2703 Martin Luther King Jr Ave SE, STOP 7501

MSIB Number: 02-21  
Date: February 1, 2021  
E-Mail: [wearamask@uscg.mil](mailto:wearamask@uscg.mil)  
Washington, DC 20593-7501

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## COVID-19 Safety Requirements in the Maritime Transportation System

The President issued Executive Order (13998), Promoting COVID-19 Safety in Domestic and International Travel that requires masks be worn on all “public maritime vessels, including ferries” to mitigate the risk of spreading COVID-19. The Centers for Disease Control and Prevention (CDC) issued order, [Requirement for Persons to Wear Masks while on Transportation Hubs, 29JAN2021](#), requires all persons travelling on all commercial vessels to wear a mask.

This Order requires conveyance operators to use best efforts to ensure that any person on the conveyance wears a mask when boarding, disembarking, and for the duration of travel. Depending on the circumstances, best efforts may include:

- boarding only those persons who wear masks;
- instructing persons that Federal law requires wearing a mask on the conveyance and failure to comply constitutes a violation of Federal law;
- monitoring persons on board the conveyance for anyone who is not wearing a mask and seeking compliance from such persons;
- at the earliest opportunity, disembarking any person who refuses to comply;
- providing persons with prominent and adequate notice to facilitate awareness and compliance of the requirement of this Order to wear a mask; best practices may include, if feasible, advanced notifications on digital platforms, such as on apps, websites, or email; posted signage in multiple languages with illustrations; printing the requirement on transit tickets; or other methods as appropriate.

The CDC has guidance on the definition of a mask and how to properly wear a mask at the following link <https://www.cdc.gov/quarantine/masks/mask-travel-guidance.html>

Under Title 42 of the United States Code section 268, the Coast Guard is charged with enforcing CDC quarantine orders. Owners, operators, and crew of vessels that fail to implement the mask wearing order above may be subject to civil or criminal penalties from the CDC. Furthermore, based on the scientific determination of the CDC, the Coast Guard finds that failure to wear a mask creates an undue safety risk by increasing the risk of transmission of COVID-19 between passengers, the crew of the vessel, and port operators. COVID-19 is known to cause severe illness and death which impacts the safe operations of ships and port facilities. The Coast Guard has broad authority to control the movement and operations of a vessel based on a hazardous condition found on that vessel (see 33 CFR § 160.111). Vessels that have not implemented the mask requirement may be issued a Captain of the Port (COTP) order directing the vessel’s movement and operations; repeated failure to impose the mask mandate could result in civil penalties and/or criminal action.



Persons that wish to report vessels not operating in accordance with the Executive Order or CDC Order may email the Coast Guard at [wearamask@uscg.mil](mailto:wearamask@uscg.mil). This shared email inbox is not monitored on a continuous basis. If there is an emergency, it should not be reported to this email inbox, but rather to local authorities through proper emergency channels.

Vessel owners and operators are encouraged to monitor the CDC website at <https://www.cdc.gov/> for the most up to date guidance.

State, local, Tribal, and territorial laws or rules imposing public health measures that are more protective of public health than those required by the CDC, are an acceptable equivalency for these requirements. Vessel operators who believe local mask wearing requirements fit this exemption should contact the local COTP.

Questions concerning this notice may be forwarded to Coast Guard Office of Commercial Vessel Compliance, at [wearamask@uscg.mil](mailto:wearamask@uscg.mil).

Richard V. Timme, RDML, U. S. Coast Guard, Assistant Commandant for Prevention Policy sends