





2021

Sponsored by:



Supported by:







International policy coordination: road to recovery

**Oracio Márquez** 

Regional Director, Memberand External Relations

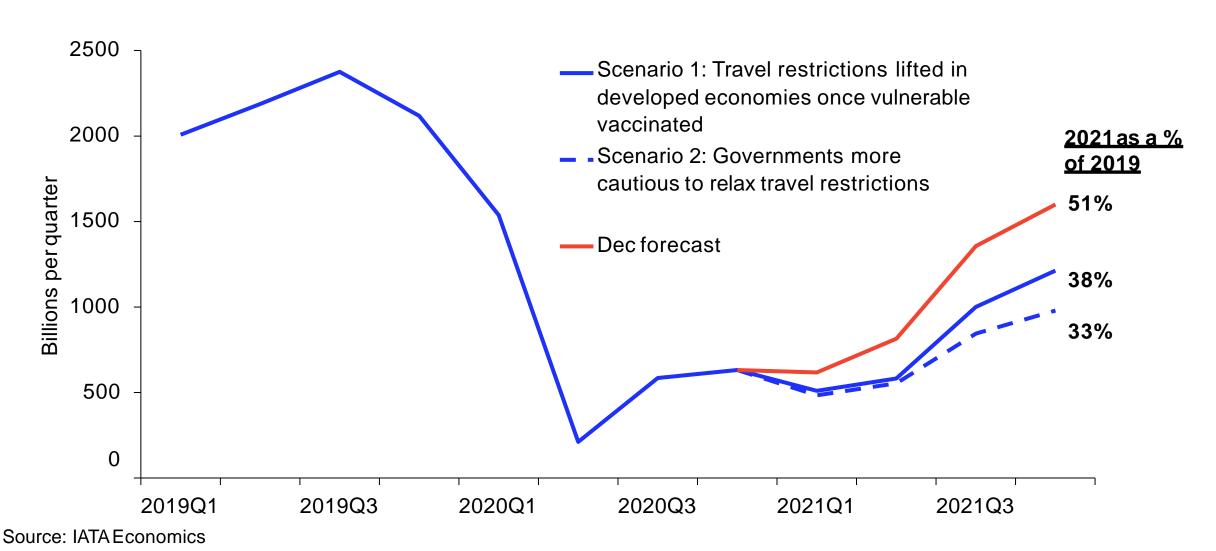
March 11, 2021



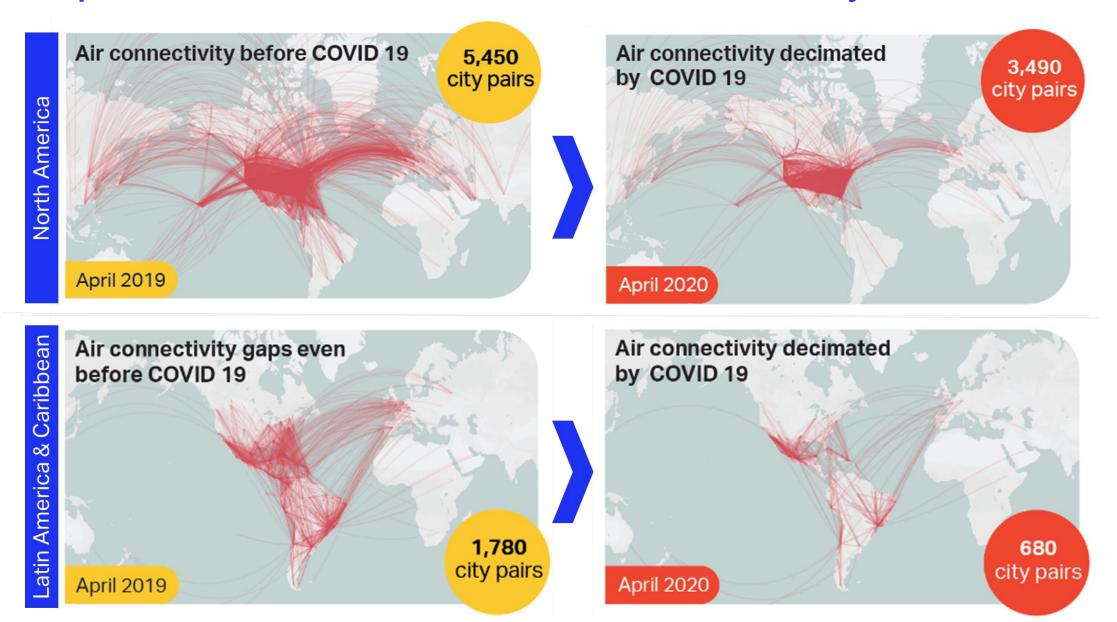
# 2021 H1 will be weaker than expected in December

There is also a risk to H2 from policy response to new virus variants

Global RPKs, billions perquarter



# Impact of COVID-19 on air connectivity in the Americas





# Impact on jobs and GDP in the Americas

2019: Pre-COVID



8.8 Million

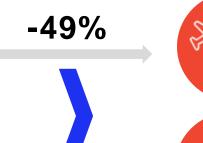
Jobs supported by air transport



US\$1.1 trillion

GDP supported by air transport

2020: COVID Impact



-50%

-50%

4.5 Million

Jobs supported by air transport



US\$553 billion

GDP supported by air transport

2019: Pre-COVID



7.6 Million

Jobs supported by air transport



US\$187 billion

GDP supported by air transport

2020: COVID Impact



3.7 Million

Jobs supported by air transport

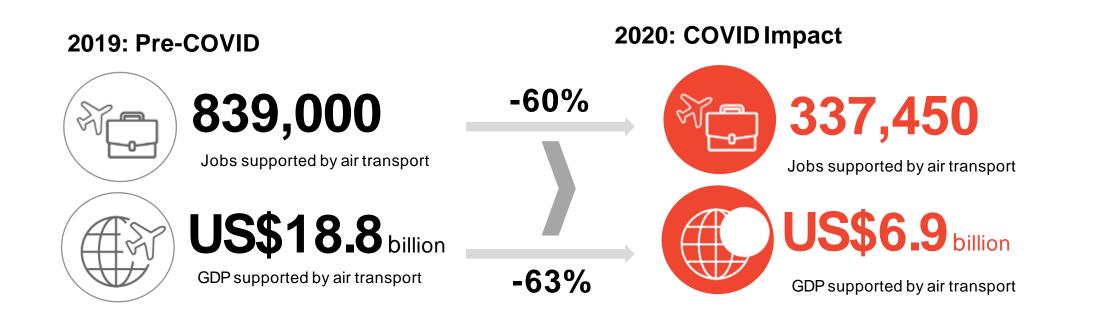


US\$93 billion

GDP supported by air transport



# COVID impact in Brazil (December 2020)



Airline revenues were estimated to drop by USD-13.6Bn by end of 2020 (-71% vs. 2019)













# Short-term Covid Response

- Systematic testing and adequate contact tracing is required to keep borders open with no quarantines in place
- Biosafety measures coupled with testing remain effective to reduce risk of importation of virus
- Standardized global approach to health credentials: <u>IATA Travel Pass</u>
  - intergovernmental recognition of test and vaccine certificates
- **Financial relief** by States to ensure viability of the operation despite airlines continuous cash burn, including access to credit lines, routes incentives and travel vouches.
- Country vaccination roll-out plans and consideration of aviation workers as essential



# IATA Travel Pass

# Developed for everyone

# Registry of Health Requirements

powered by Timatic

 Enables passengers to find accurate information on travel, testing (and eventually vaccine) requirements for their journey



#### Registry of testing/ vaccination centers

 Enables passengers to find testing centres and labs at their departure location which meet the standards for testing/vaccination requirements of their destination



#### Lab App

 Enables authorized labs and test centers to securely send test results or vaccination certificates to passengers



### Contactless Travel App

- Enables passengers to (1)
   create a 'digital passport', (2)
   verify their test/vaccination
   meets the regulations & (3)
   shares test or vaccination
   certificates with authorities to
   facilitate travel.
- Can be used by travelers to manage travel documentation digitally and seamlessly throughout the travel experience.



# Safely reopening borders

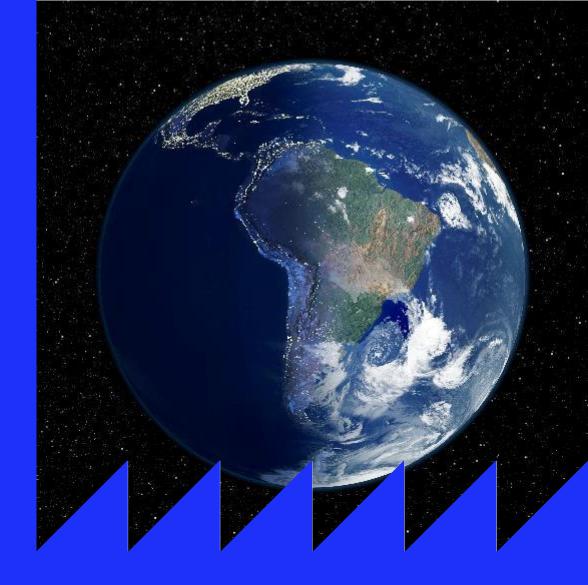
- IATA committed to work with governments to combat COVID-19
- Work with WHO and ICAO to urgently develop standard testing and vaccines certificates (data elements and digital format)
- Deploy industry solution (IATA Travel Pass) to manage digital health credentials and ensure interoperability with other industry solutions
- Develop Guidance to help governments manage and mitigate risks including transition from testing to vaccines and removal of unnecessary biosafety measures.



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## **Confident Travel Initiative**

Landon Loomis
Vice President for Global Policy & Managing Director Brazil
The Boeing Company

March 11, 2021



### A Multi-layered Approach to Protect the Air Travel Journey









HOME

CHECK-IN &

**SELF EVALUATION** 

ENHANCED PROCEDURES

Superior Air Quality

**DEPARTURE AIRPORT** 







**CLEANED AND DISINFECTED** 

**AIRPLANE** 







Cabin airflow



2-3 minutes



HEPA



Face mask



**ENHANCED PROCEDURES**Superior Air Quality





**DATA-DRIVEN OPTIMIZATION** 



# Boeing partners in flight

































**UNMC** 

MEDICAL CENTER®





























### There are very few reports of transmission in the air travel journey

#### 2020 Travel

30.4M GLOBAL FLIGHTS 2.1B
GLOBAL
PASSENGERS

Less than 60
KNOWN TRANSMISSIONS
DURING AIR TRAVEL\*

## Boeing's Clean Airplane Program: Helping airlines protect passengers from viruses

TODAY'S

**SOLUTIONS** 

**TOMORROW'S** 

**POTENTIAL** 

**SOLUTIONS** 



#### **CHEMICAL DISINFECTANTS**

20 tested, 9 Boeing approved disinfectants



#### **ELECTROSTATIC SPRAYERS**

Efficient application for hard to reach areas



#### **CABIN AIRFLOW**

Complete air exchange every 2-3 minutes



#### HIGH EFFICIENCY PARTICULATE AIR (HEPA)

99.9+% effective at removing particulates



#### **UV TECHNOLOGY**

For use in flight deck today, cabin is under study



#### **ANTIMICROBIAL COATINGS**

Developing our own, validating others' for a long lasting solution



#### THERMAL DISINFECTION

Eliminating viruses with heat



#### **IONIZATION TECHNOLOGY**

Electrically charging the air to make it even cleaner



#### **BOEING ANTI-VIRAL COATING**

Breakthrough anti-microbial with high kill rate, long life



Continuous disinfection through the travel journey





**UV BUILT INTO THE** 

**AIRPLANE** 

Cabin environment creates equivalent of >2 m (7 ft) distance between every passenger on

full flight



- Cabin air flows primarily from ceiling to floor
- The circular air pattern limits particle movement
- 3. Airflow pulls cough particles down
- 4. The seat position acts as a barrier and minimizes particle spread
- 5. Airborne particles flow out through the floor grilles
- 6. HEPA filters traps more than 99.9% particles including spores, bacteria, viruses
- 7. New fresh, filtered air constantly fills the cabin 20-30 times per hour

# The air quality in airplanes is excellent



**OFFICE & BUSINESSES** 



**AIRPORTS** 



**AIRPLANES** 



How often is the air exchanged?

ONCE AN HOUR, OR LONGER

EVERY 12 – 30 MINUTES

EVERY 6 – 10 MINUTES

EVERY
2-3
MINUTES

What is filtered out of the air?

(Based on typical air filter [MERV] ratings.)

#### Particulates Removed (MERV 2-6):

- ✓ Dust/Lint
- ✓ Pollen

#### Particulates Removed (MERV 5-8):

- ✓ Mold
- ✓ Dust Mites
- ✓ Dust/Lint
- ✓ Pollen

#### Particulates Removed (MERV 13+):

- ✓ Some Viruses\* ✓ Smoke ✓ Dust/Lint
  - **Sectoria** ✓ Pet Dander ✓ Pollen
- ✓ Allergens ✓ Mold
- ✓ Smog ✓ Dust Mites

#### Particulates Removed (MERV 17+):

Virus

**Allergens** 

✓ Smoke

Dust/Lint
Pollen

- ✓ Bacteria
  - - ✓ Mold
- √ Smog
- ✓ Dust Mites

**Pet Dander** 

# Summary

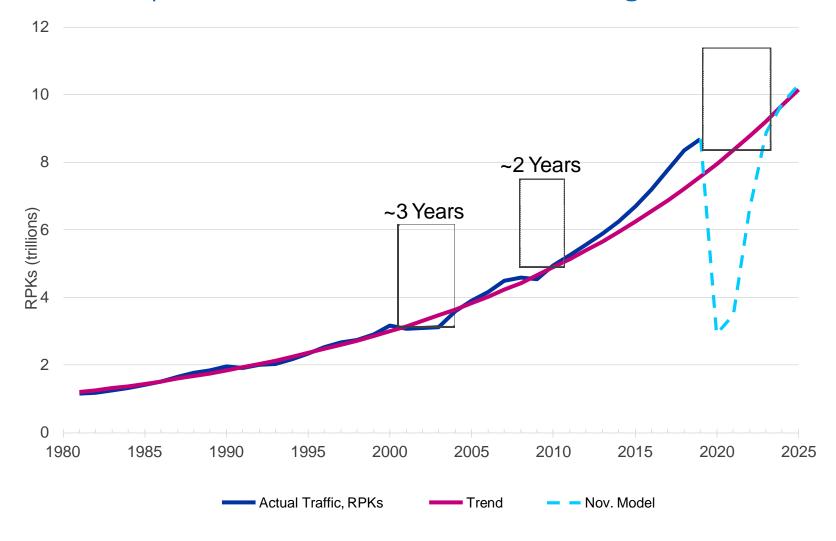


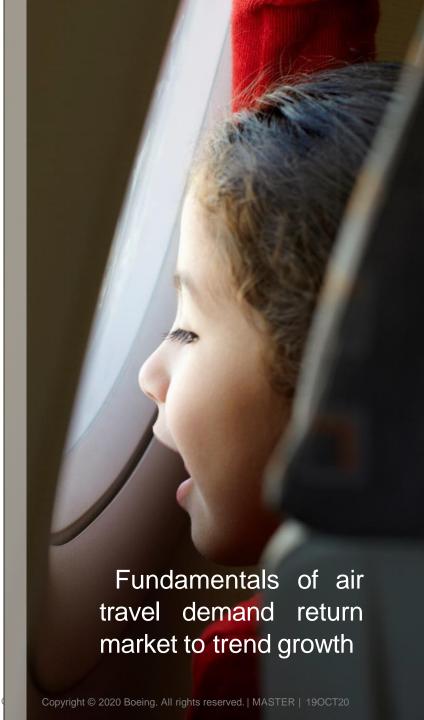
- The risk of contracting COVID-19 during air travel is extremely low compared to typical daily activities
- The design of the cabin and airflow system creates the equivalent of more than
   7 feet (2 meters) of space between every passenger even on a full flight
- Boeing and the University of Arizona conducted live virus testing to determine that current cleaning solutions effectively destroy the virus that causes COVID-19
- We are all part of the solution



**Latin America and the Caribbean Market Outlook 2020-2039** 

### Aviation proven resilient over and overagain





## Latin America 20-year forecast: continued long-term growth



**Economic** growth (GDP)

2.2%

Airline traffic growth (RPK)

5.1%

Airline fleet growth

3.5%

# **Bottom Line**



Latin America and the Caribbean will need 2,610 new airplanes over the next 20 years

Aviation has proven to be resilient over time

The current downturn will lead to an accelerated replacement cycle

Versatile fleets that improve efficiency and sustainability are key to the future





# COVID-19 US Testing requirements



- As of Jan. 26, the U.S. government requires all passengers two years of age and older traveling to the United States from any international location to test negative for COVID-19 within three calendar days of departure.
- This testing requirement will provide yet another layer of protection in the travel journey.



## **Our Clean Commitment**



#### **Trust**





Travel Advisory Panel with infectious disease experts from Vanderbilt University Medical Center



Starting to treat our aircrafts with SurfaceWise®2, a breakthrough protection for killing of coronaviruses



First airline to seek accreditation for our aircraft and lounges

#### **Peace of Mind**



Enhanced Cleaning and Protocols



**Mask Requirement** 



**Symptom Checklist** 

#### Control



Customer Notifications and Flexibility



Hand Sanitizer Collaboration



**Touchless Kiosks** 



# Leading the Industry: SurfaceWise®2

American was the **first U.S. airline** to deploy SurfaceWise®2, the **first and only** EPA-approved antiviral protectant that's **proven to kill coronaviruses** on surfaces **even after new germs are deposited**.





SurfaceWise\*2 is applied to high touch surfaces via electrostatic spraying throughout the aircraft.



0

As coronaviruses come in contact with the antiviral coating, the cleaning agent physically breaks down the virus.





The SurfaceWise®2 barrier provides sustained protection and begins killing new viruses on contact.







# GBAC STAR Accreditation from the Global Biorisk Advisory Council

- First airline to achieve GBAC STAR™ accreditation
- Establish and maintain a cleaning, disinfection, and infectious disease prevention programs
- Ensures the proper cleaning protocols, disinfection techniques, and work practices are in place
- Works with highly informed cleaning professionals who are trained for outbreak and infectious disease preparation and response.



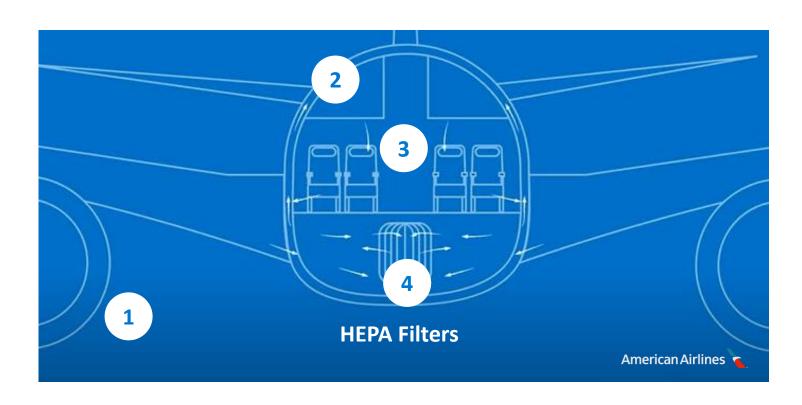
## **HEPA Filters**



# A breath of clean air in flight

- 1 Fresh air enters the plane through the engines
- Air supplied from overhead outlets. Air is exchanged every 2 to 4 minutes

Air flows primarily from CEILING
TO FLOOR, not front to back, to
minimize spread of
contaminants



Air passes through HIGH EFFICIENCY
PARTICULATE AIR (HEPA) filters which
are 99.9%+ effective at trapping viruses
and bacteria

# Mobile Digital Health Passport - VeriFLY

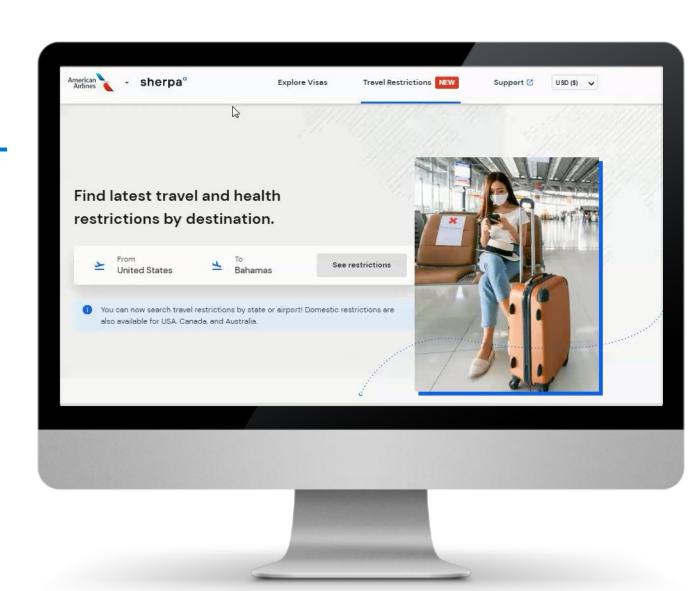
- Digital health passport solution for verification of travel requirements (including test results) both upon departure and arrival.
- VeriFLY uses a traceable testing solution to track and validate test results.
- App displays whether a customer meets or fails the testing and pre-arrival requirements for a destination.
- Available for travel to: United States, Brazil, Canada, Chile, Colombia, El Salvador, Guatemala, Honduras, Jamaica, United Kingdom



# Travel restriction informational tool

- Review travel restrictions ondemand
- For domestic and international travel
- Updated frequently to make sure you get the latest requirements

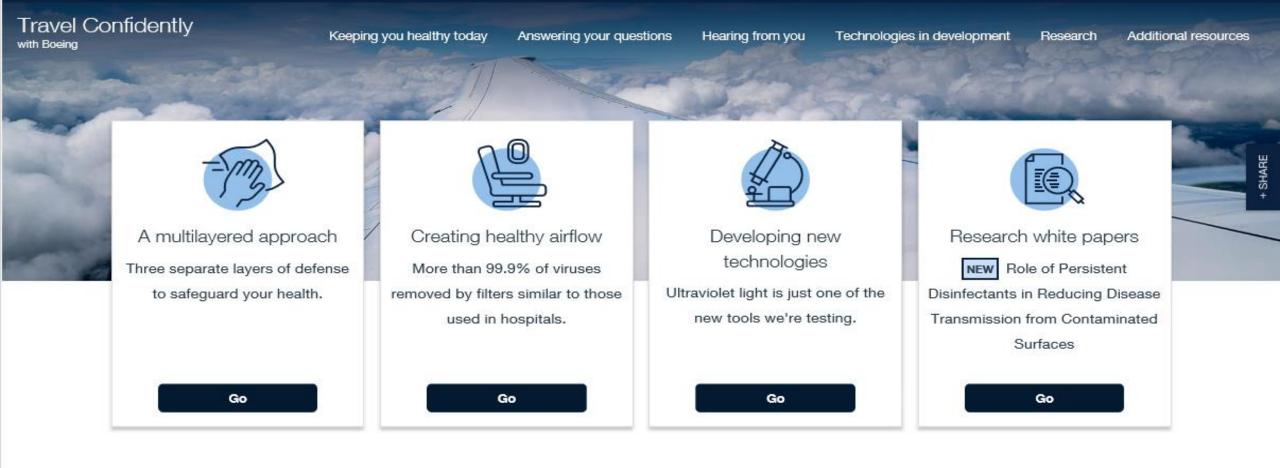
http://www.aa.com/travelrestrictions











### To know more travel confidently, please visit:

As air travel resumes and restrictions ease around the globe, your health

https://www.boeing.com/confident-travel/ing across the

industry to enhance health safeguards and develop new solutions.



