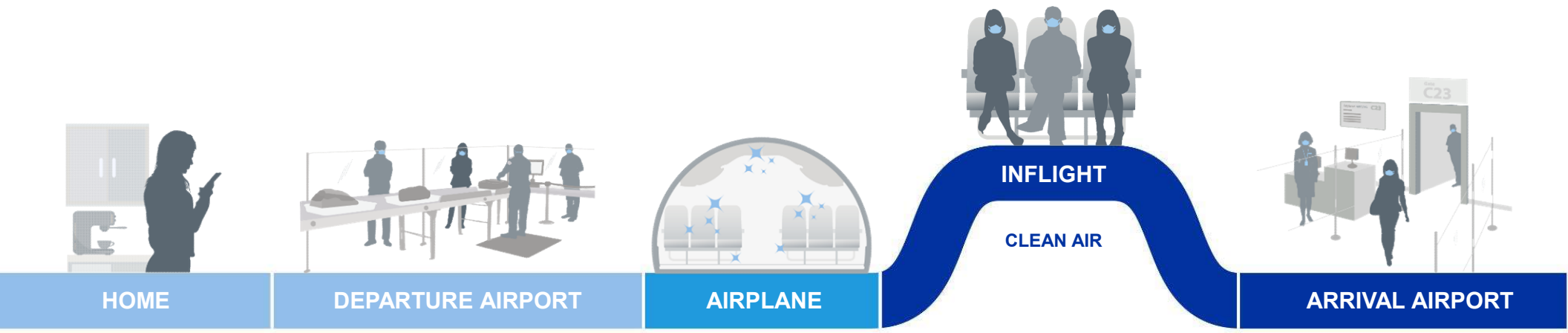
Confident Travel Initiative

A Multi-layered Approach to Protect the Air Travel Journey



CHECK-IN & SELF EVALUATION

ENHANCED PROCEDURES
Superior Air Quality

CLEANED AND DISINFECTED

New Technologies

Cabin airflow

2-3 minutes

HEPA

Face mask

ENHANCED PROCEDURES
Superior Air Quality

DATA-DRIVEN OPTIMIZATION

Boeing partners in flight

Relative risk of air travel

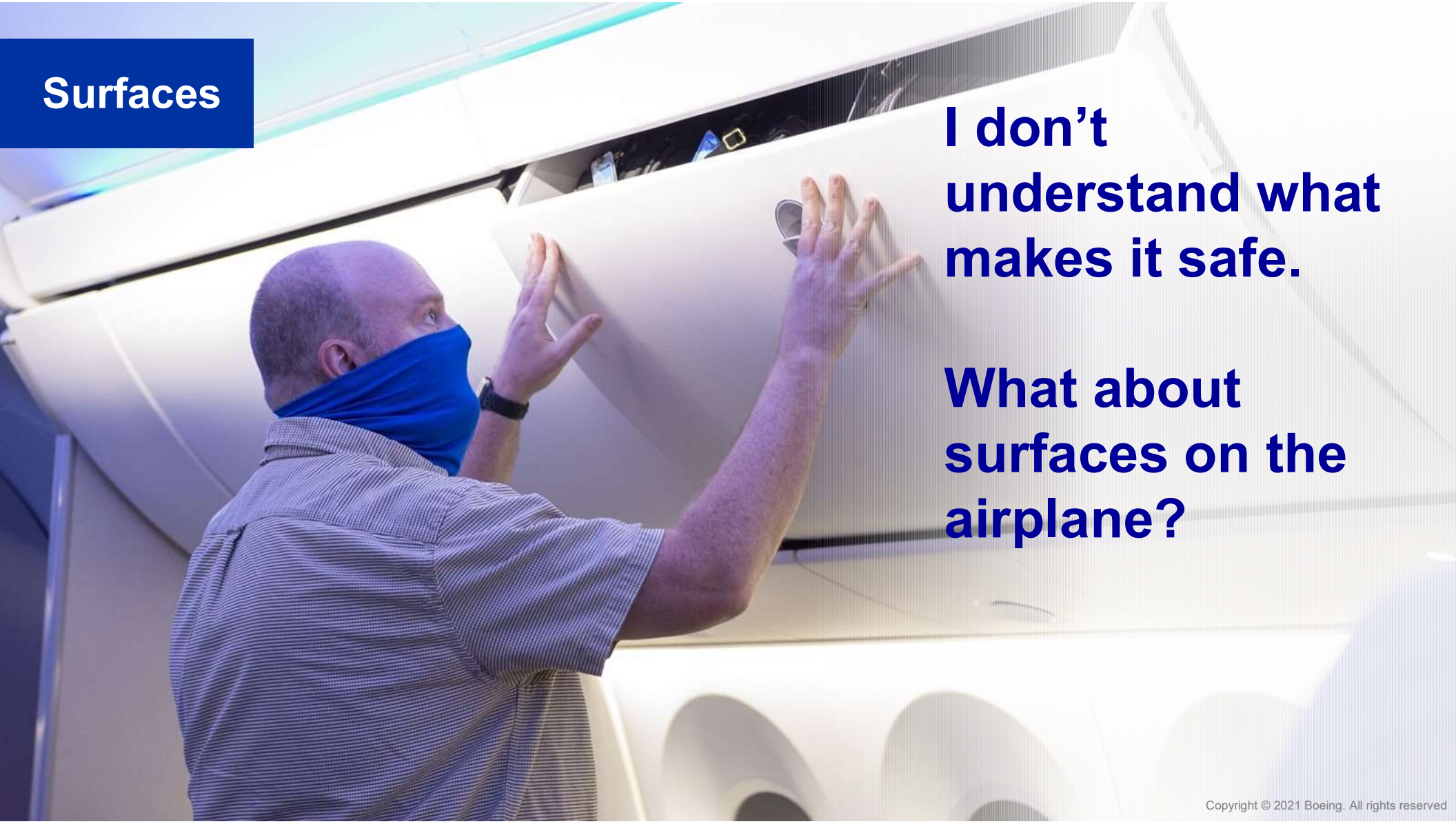
I’m eager to start traveling again – but is it safe?

Are people getting sick?

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

ICAO Operational Impact on Air Travel – material based on best available data currently available
* Reported as of 1/22/2021

Surfaces



I don’t understand what makes it safe.

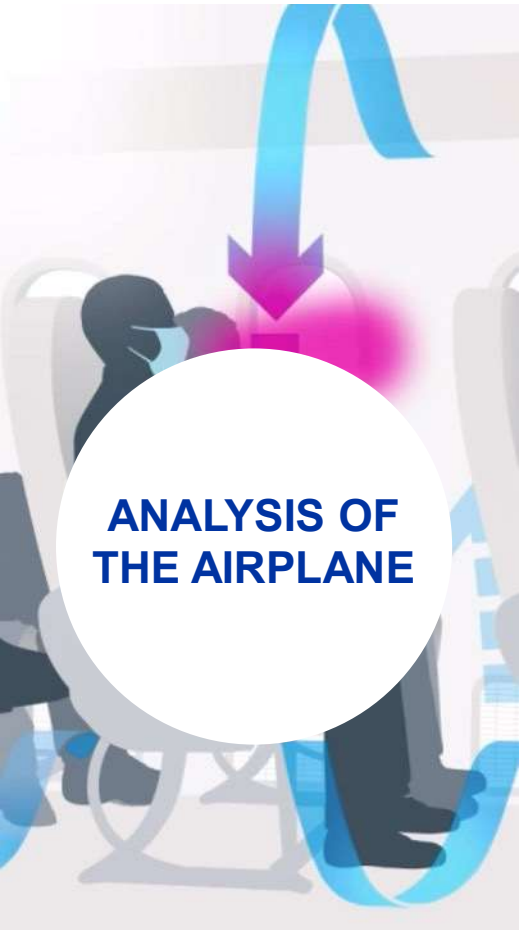
What about surfaces on the airplane?

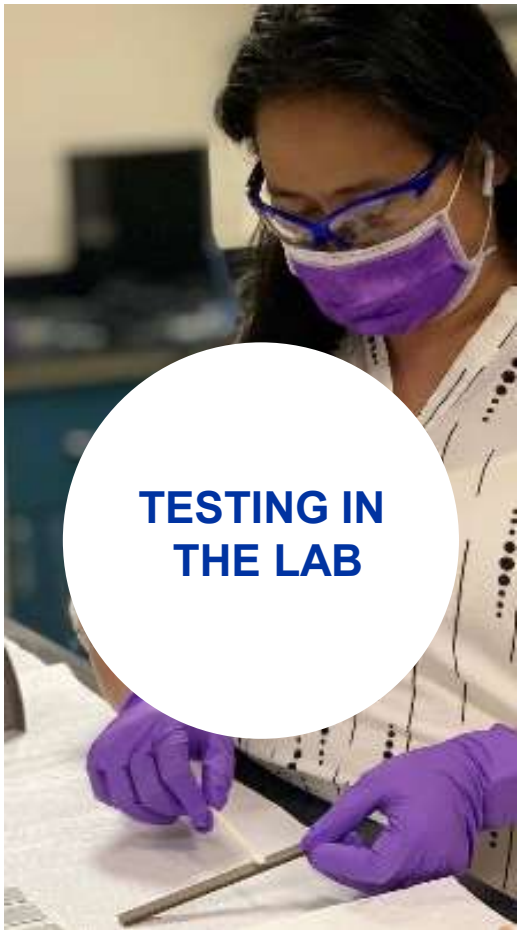
Cleaning technologies tested destroy the live virus

Clean Airplane Program

How Boeing knows this is effective

Clean Airplane Program





Airflow and filtration

How does airplane air compare to other places?

Risk of virus spread on airplanes is low

Increased airflow and stronger filters remove more particulates

How often is the air exchanged?

TYPICAL RESIDENCE

ONCE AN HOUR, OR LONGER

OFFICE & BUSINESSES

EVERY 12 – 30 MINUTES

AIRPORTS

EVERY 6 – 10 MINUTES

AIRPLANES

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
- ✓ Bacteria
- ✓ Allergens
- ✓ Smog
- ✓ Smoke
- ✓ Pet Dander
- ✓ Mold
- ✓ Dust Mites
- ✓ Dust/Lint
- ✓ Pollen

Particulates Removed (MERV 17+):

- ✓ Virus
- ✓ Bacteria
- ✓ Allergens
- ✓ Smog
- ✓ Smoke
- ✓ Pet Dander
- ✓ Mold
- ✓ Dust Mites
- ✓ Dust/Lint
- ✓ Pollen

Airflow and filtration

Ok, what about air in the cabin – can I catch COVID-19 from other passengers?

Air flow & filtration in the airplane cabin is designed to keep passengers and flight crews healthy

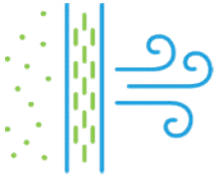
Outside air continuously flows into the cabin

1

Air is supplied to the cabin from overhead outlets. The volume of cabin air is exchanged **EVERY 2 TO 3 MINUTES**.

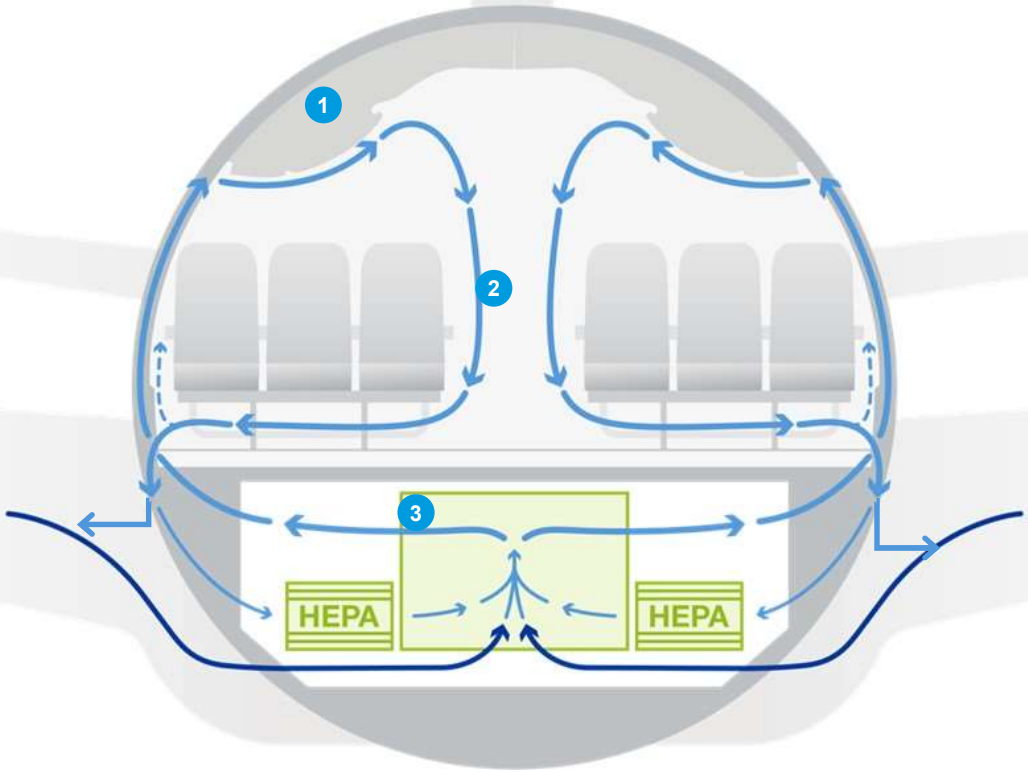
2

Air flows primarily **CEILING TO FLOOR**, not front to back, to minimize the spread of contaminants.

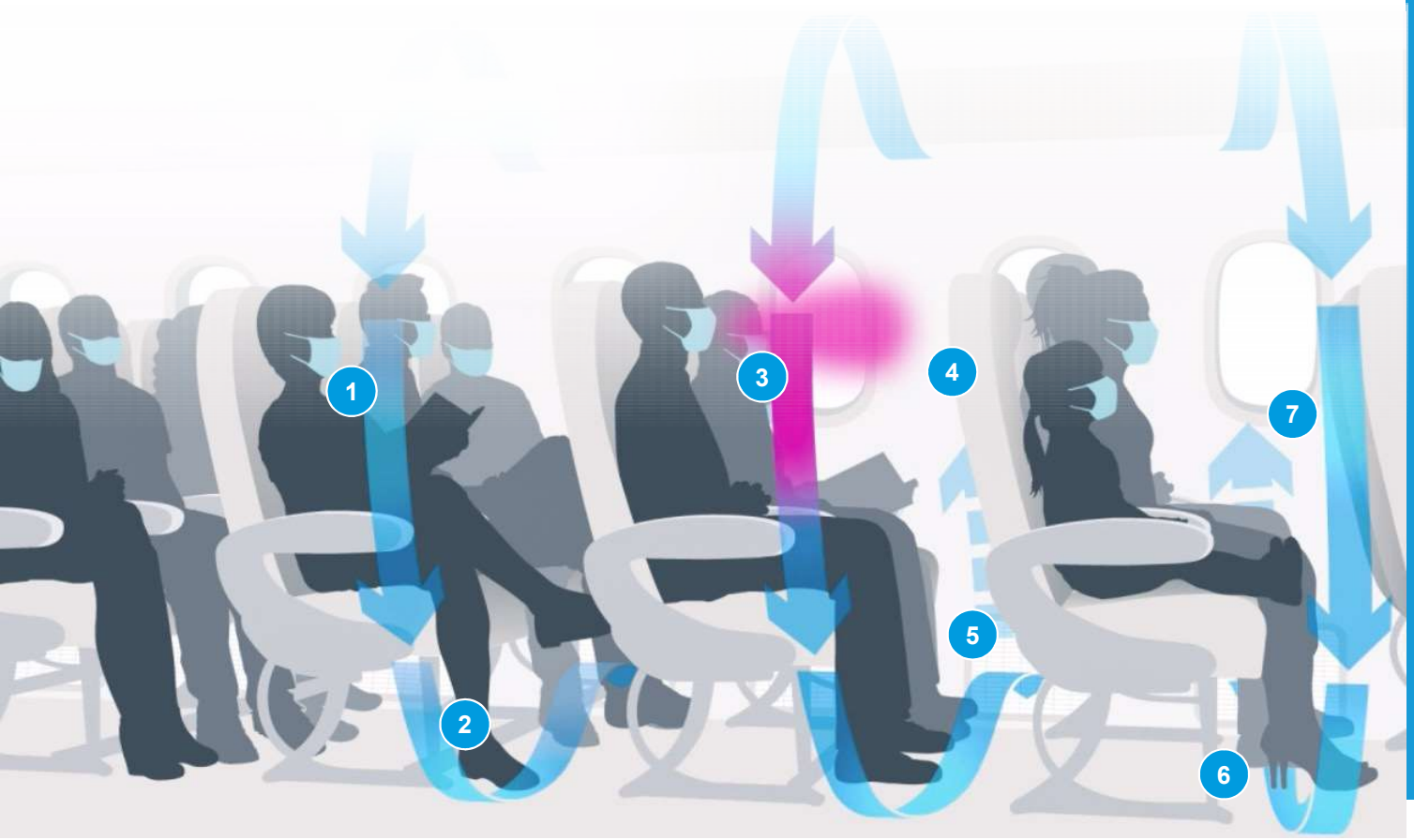


3

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



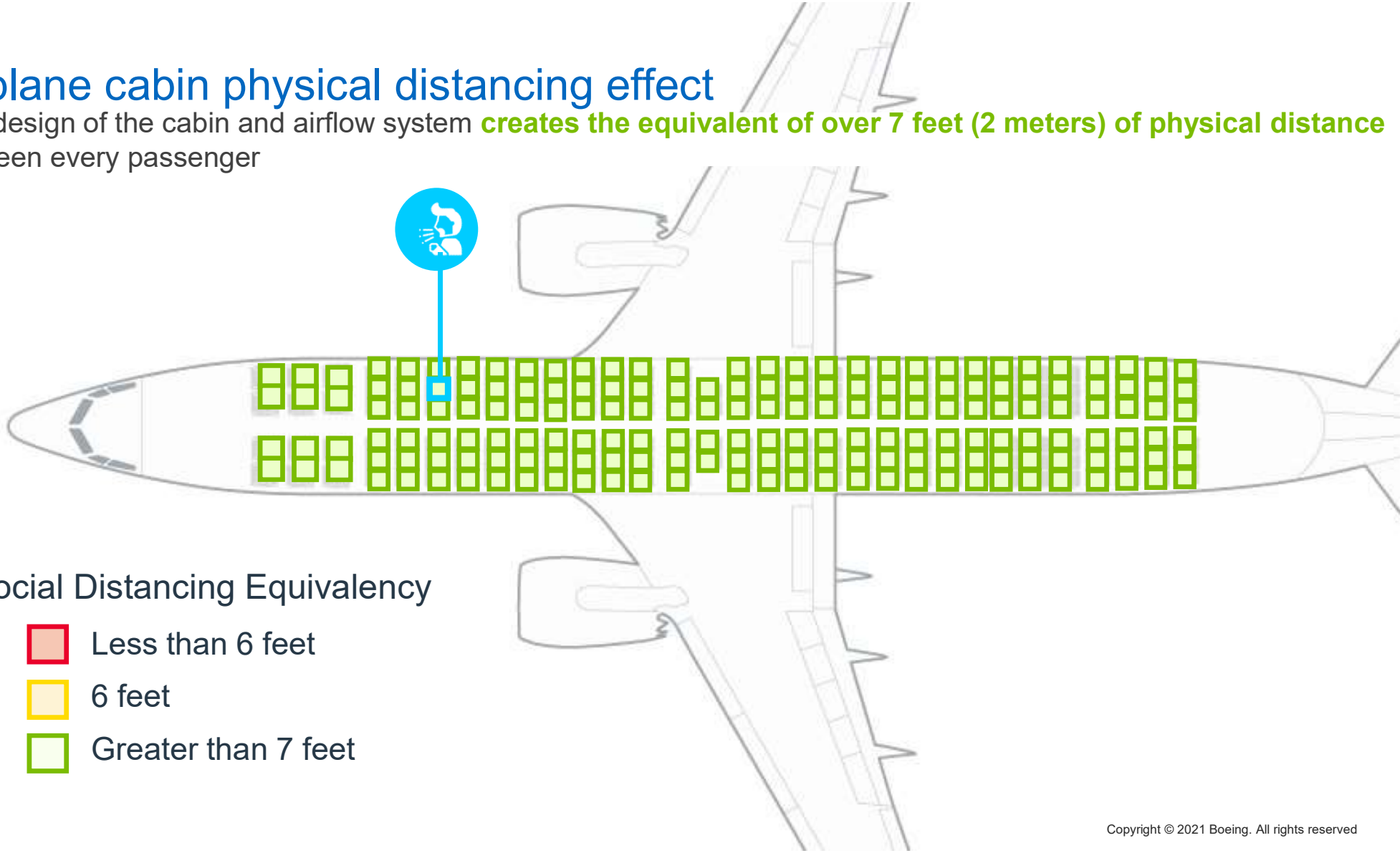
What makes the air quality better?



1. Cabin air flows primarily from ceiling to floor
2. 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 trap more than 99.9% particles — including spores, bacteria, viruses
7. New fresh, filtered air constantly fills the cabin 20-30 times per hour

Airplane cabin physical distancing effect

The design of the cabin and airflow system **creates the equivalent of over 7 feet (2 meters) of physical distance** between every passenger



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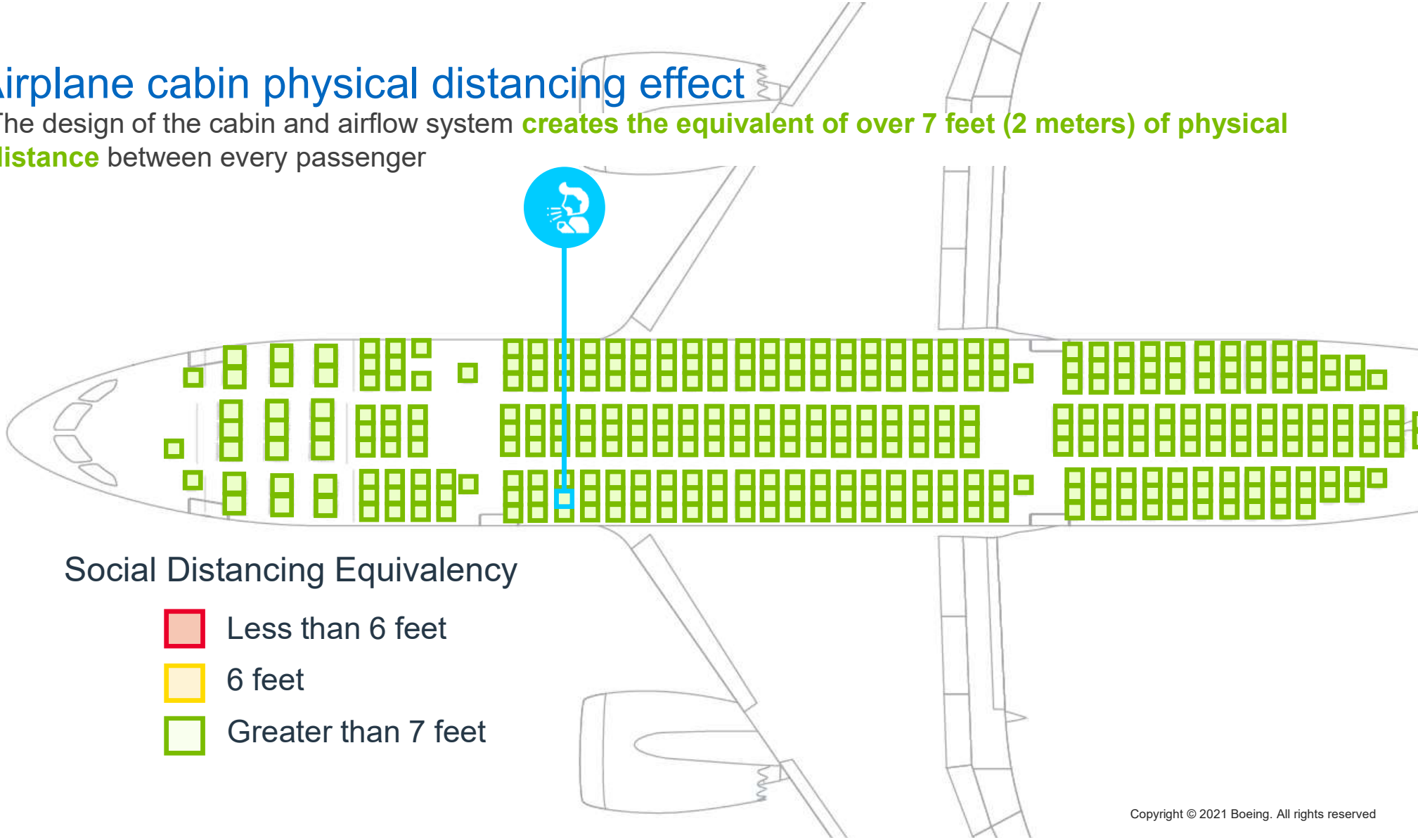
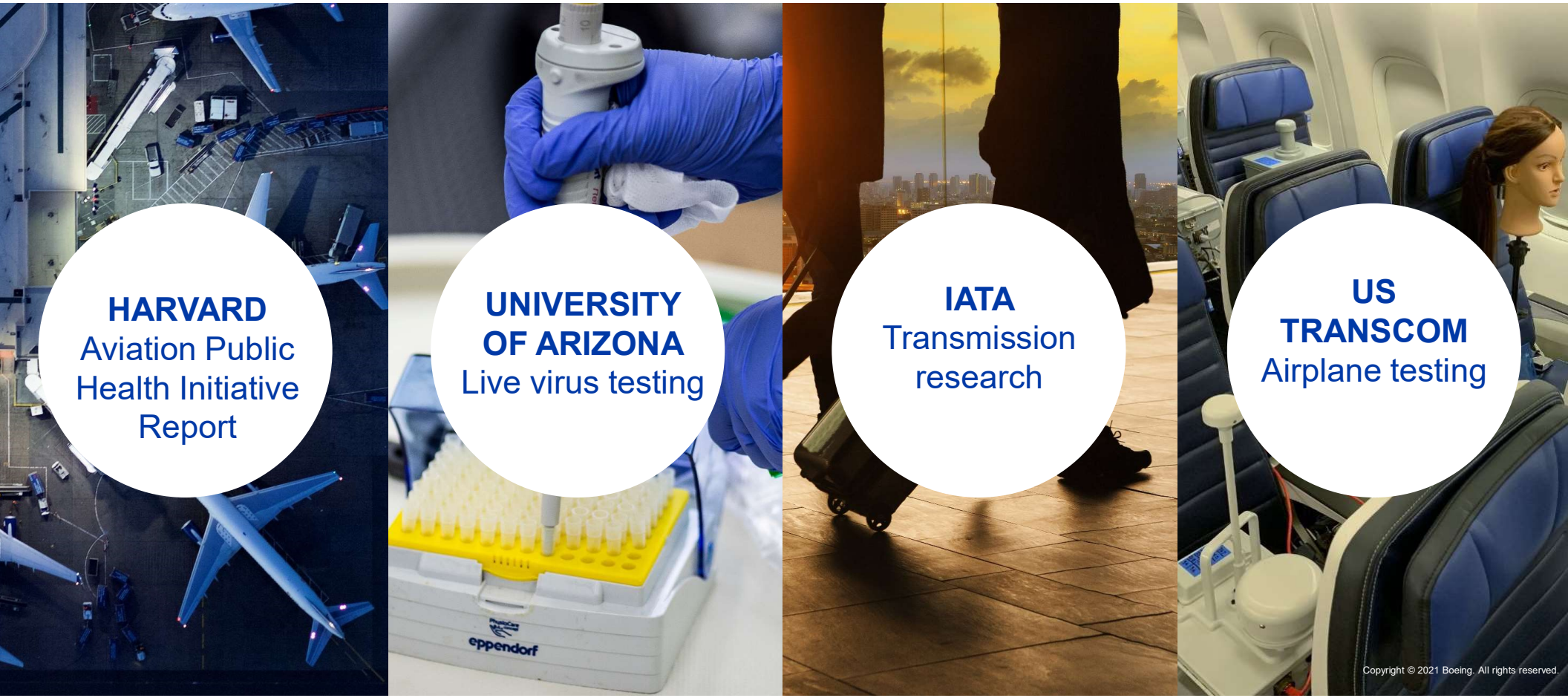


Beyond the airplane

Restoring ***Confidence*** in Air Travel

Academia and industry research support Boeing findings



Passenger Pact

What role do I play?

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