



Airbus Initiative
Keep Trust in Air Travel
How Airbus supports airlines to restart their business

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AIRBUS

What are we striving for?

BLOCK

Aerial
Transmission



STOP

Contact
Transmission



PREVENT

The virus from
entering air travel



**Collaboration between OEMs via ICCAIA (International Coordinating Council of Aerospace Industries Association)*

Focus of today's talk.

DISINFECTION

AIRFLOW

Aircraft



Airport



Keep
Trust
In Air
Travel

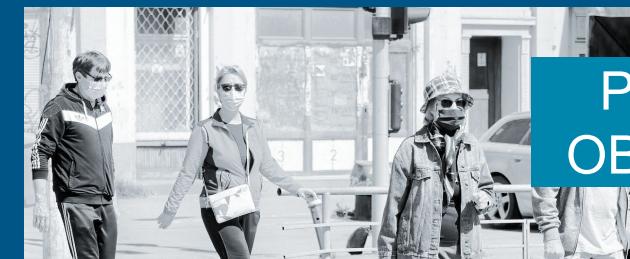
E2E RISK
ASSESSMENT

Society



VACCINE
TRANSPORT

People
And Communications



PASSENGER
OBSERVATORY

AIRBUS

Clean Cabin

CHECK

Virus Efficacy

Material Property

Strength, Discoloration, Flammability

Overall Process

Exposure Time

Health & Safety

Workers, Crew, Passengers

Disinfection Methods



FOGGING
SPRAYING



THERMAL



HYDROGEN
PEROXYDE

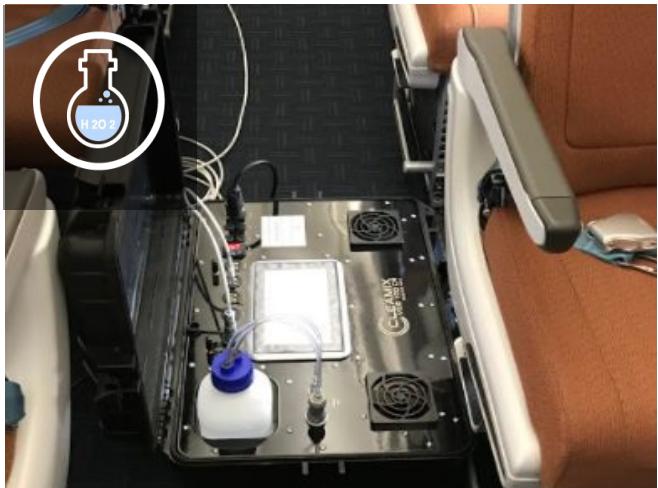


UVC



APPLY & WIPE OFF
Standard Method

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Disinfection Test Campaign

Real aircraft conditions (full cabin mockup)

Use of surrogate virus

Focus on High-Touch areas

Results:
99-99.99% Efficacy

Collaboration with Fraunhofer

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Watch the video on airbus.com

Innovation
A clean cabin for safe flying



Disinfection Test Campaign

Real aircraft
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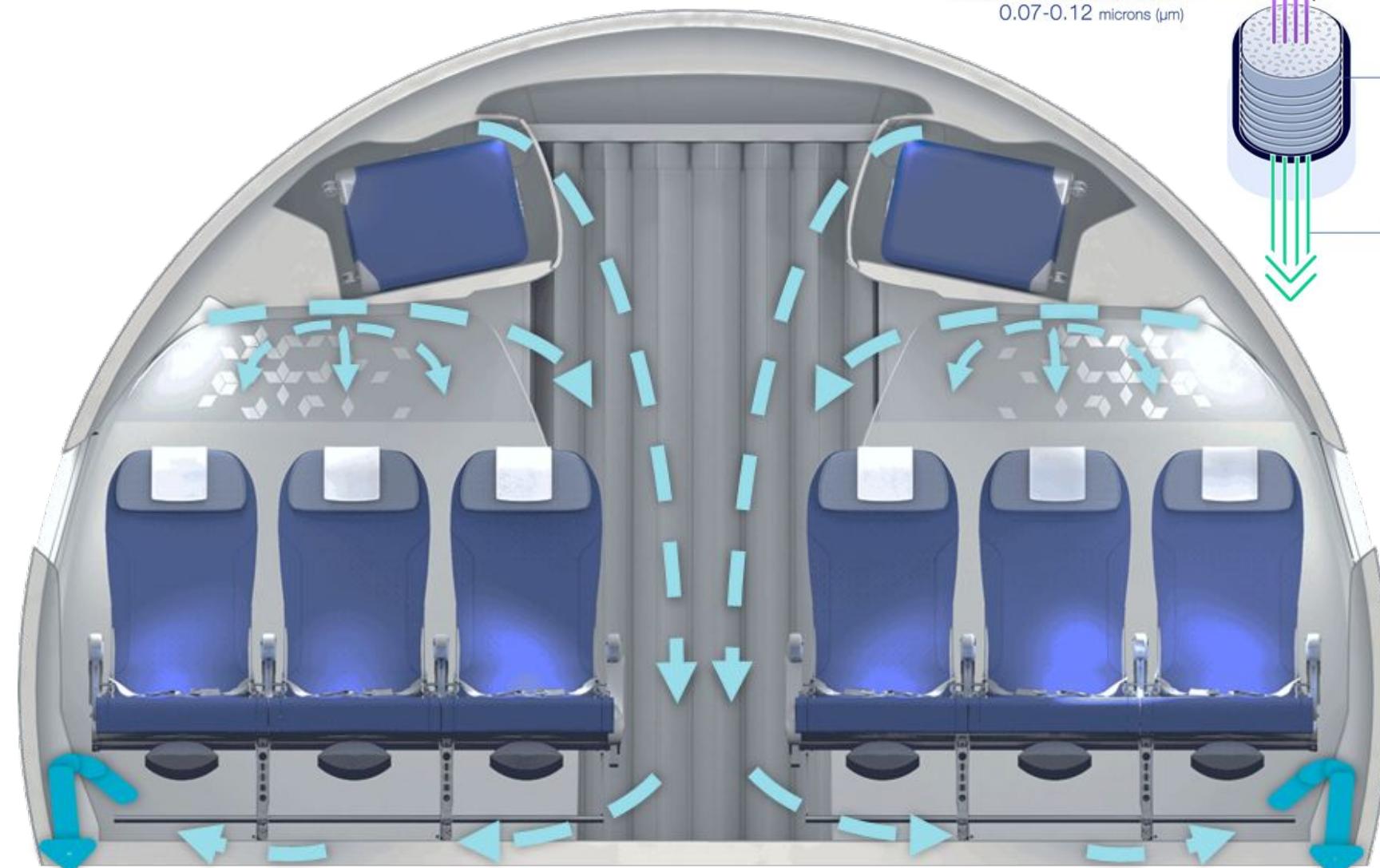
Focus on
High-Touch areas

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Clean Air



Clean cabin air, by design

Air fully **renewed** every 2-3 mins

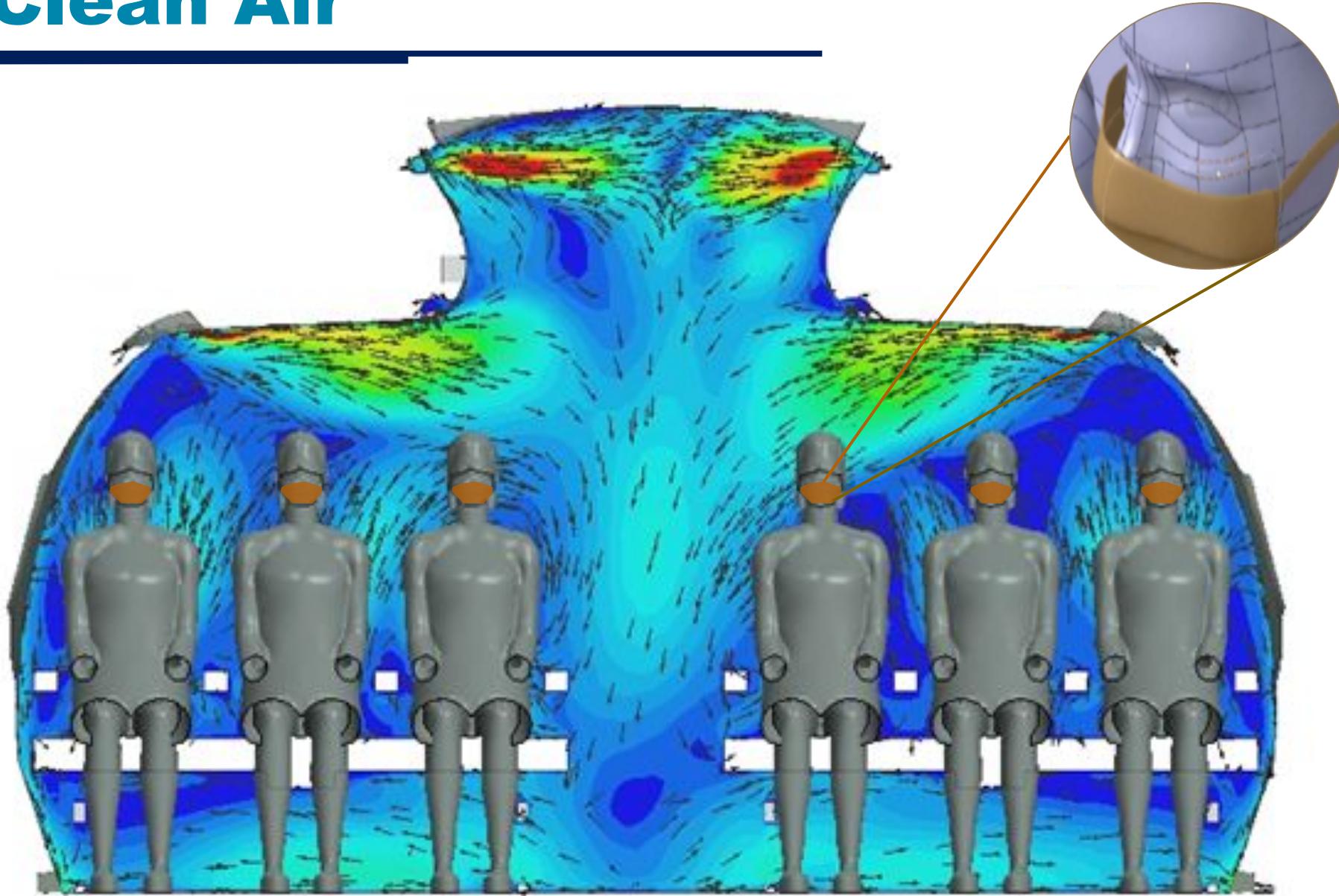
Constant injection of **fresh** air

Hospital-grade filters=
>99.9 % of particles removed

Top-to-bottom flows
limit air mixing between rows

Back of seats as additional barriers

Clean Air



Simulation based study

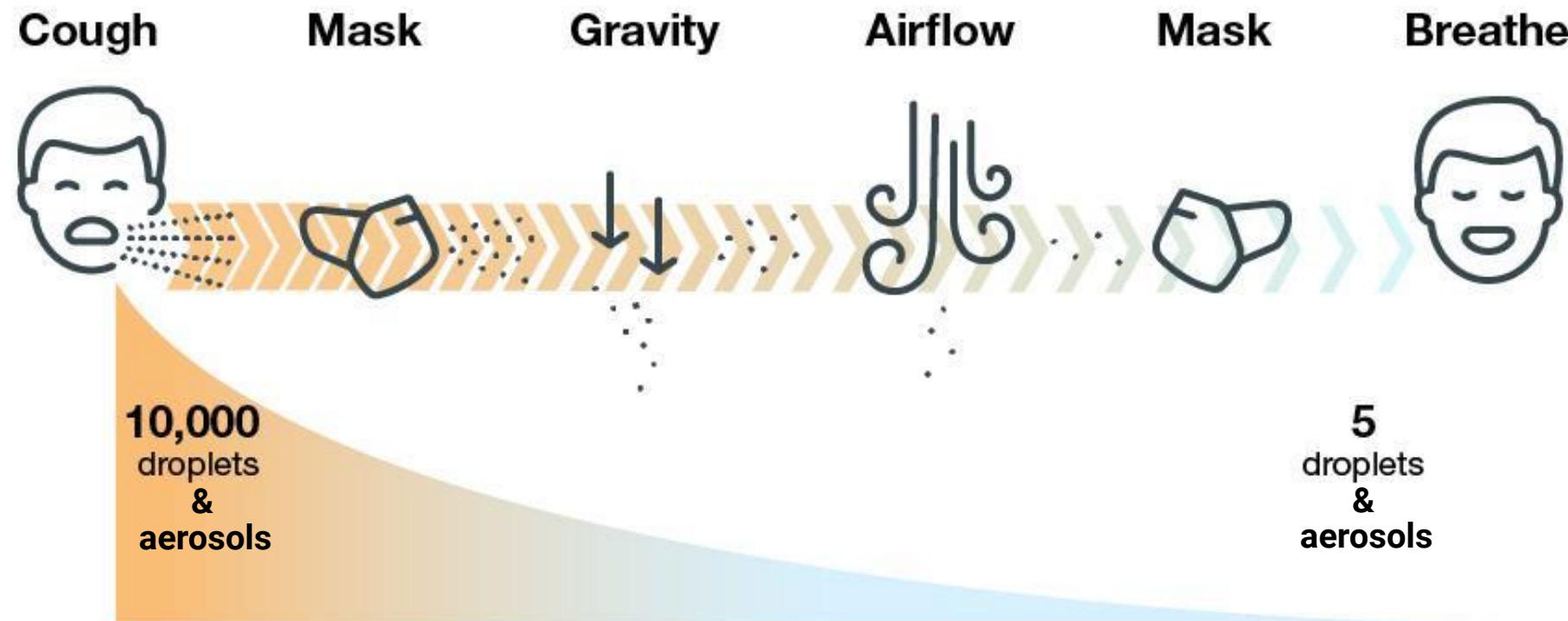
3D Computational Fluid Dynamic models of cabin air flow

Simulation of **passenger particle emission events** (breathing, talking, coughing)

50 million data points

Calculations repeated upto 1000 times to represent 1 second in real time

Protective Barrier Layer



Protective Barrier Layer in the Cabin

Study demonstrates very low risk to particle exposure (even when all seats occupied).

Adapt health measures to actual threat level

Demonstrate testing can be alternative to quarantine



End-to-End Risk Assessment Model

Scope: End to End air travel journey

Based on flight safety & epidemiological expertise

First results show promising level of accuracy.



**Royal Air Force A400M
delivered more than
5,500 bottles of the Pfizer
vaccine to Gibraltar.**



Vaccine Transportation

Support to industry
and operators

A330 with full pax able
to transport 4 tons of
dry ice

(1 Million Pfizer vaccine doses)

In-Service Information
published in line with
FAA's "AC91-76A"

Military aircraft join
vaccine transportation
mission

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Thank you for your attention

