

A woman and a child are seen from behind, looking out a large window at an airport tarmac. The woman is wearing a pink hoodie and jeans, and the child is wearing a white shirt and jeans. The scene is bathed in warm, golden light, suggesting a sunrise or sunset. The tarmac outside shows parts of an airplane and some ground service equipment.

Airbus Initiative

Keep Trust in Air Travel



How Airbus supports airlines to restart their business

Stefan ROEMELT

Senior Vice President, Head of Cabin & Cargo Engineering
Airbus Operations GmbH

AIRBUS

What are we striving for?

| BLOCK | STOP | PREVENT |
|--|---|--|
| Aerial Transmission | Contact Transmission | The virus from entering air travel |
|  |  |  |

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

Focus of today's talk.

Aircraft

DISINFECTION

AIRFLOW



Airport



Keep Trust In Air Travel

E2E RISK
ASSESSMENT

Society

VACCINE
TRANSPORT



People

And Communications

PASSENGER
OBSERVATORY



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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

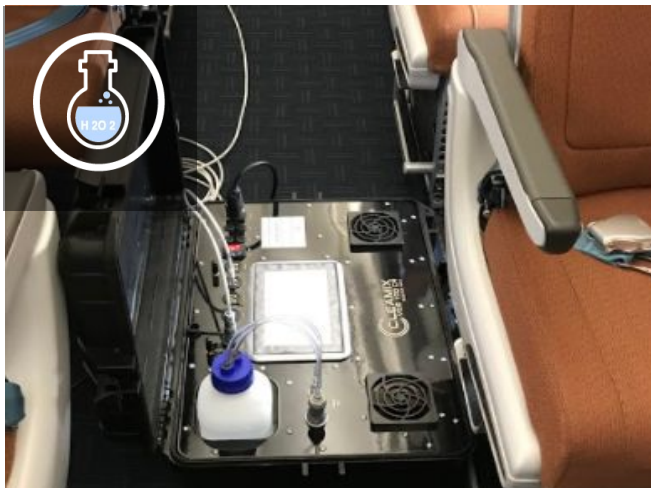


UVC



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
conditions (full cabin
mockup)

Use of surrogate
virus

Focus on
High-Touch areas

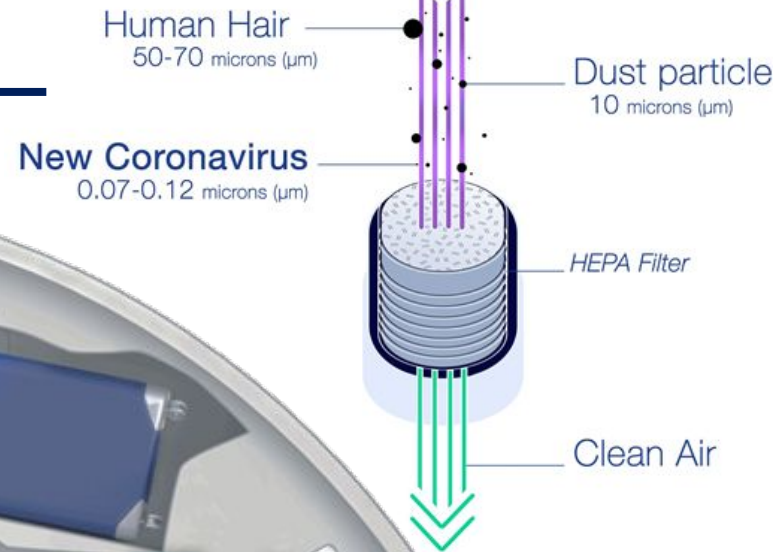
Results:
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Clean Air

Airbus Amber



Clean cabin air, by design

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

Constant injection of **fresh air**

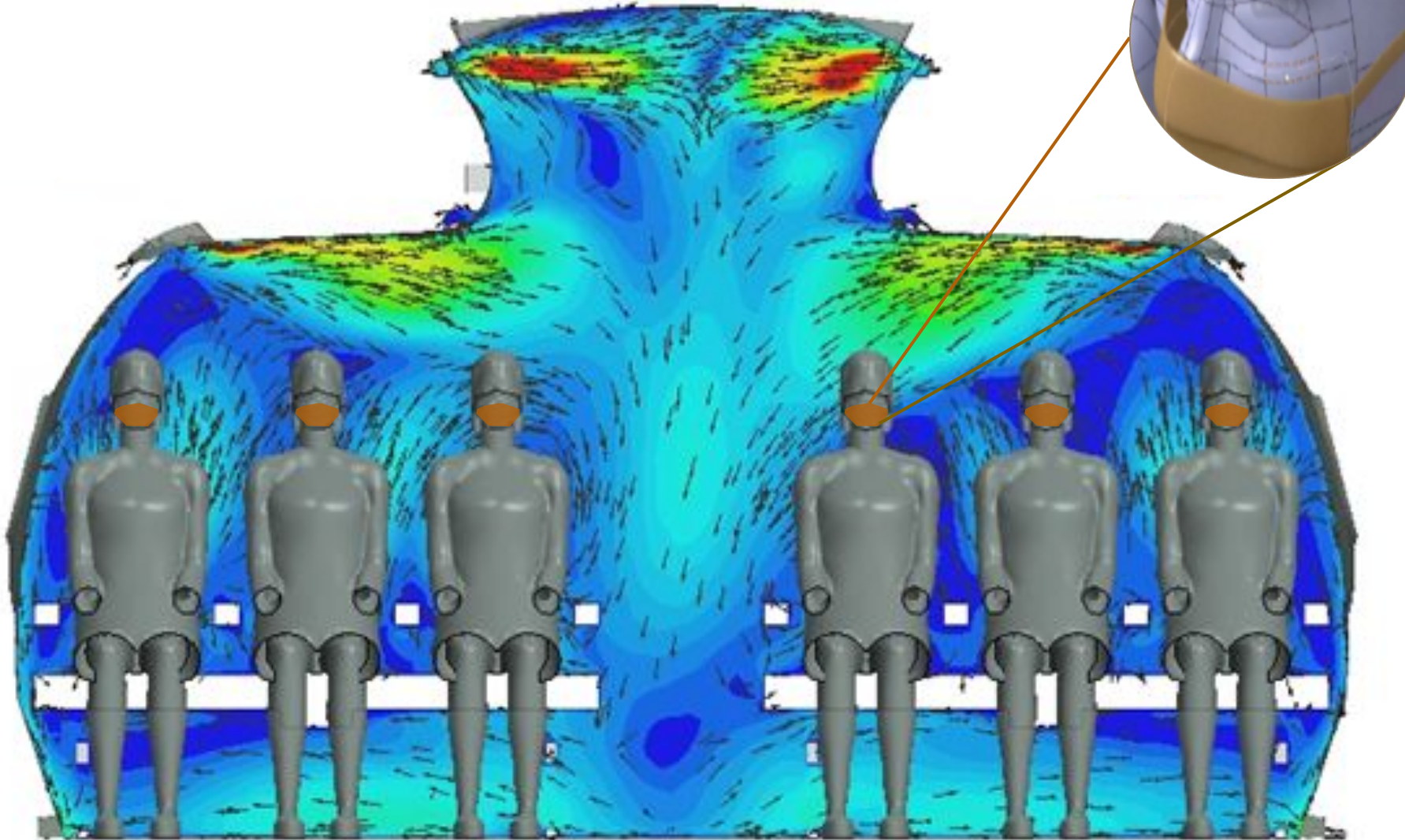
Hospital-grade filters=>99.9 % of particles removed

Top-to-bottom flows limit air mixing between rows

Back of seats as additional barriers

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Clean Air



Simulation based study

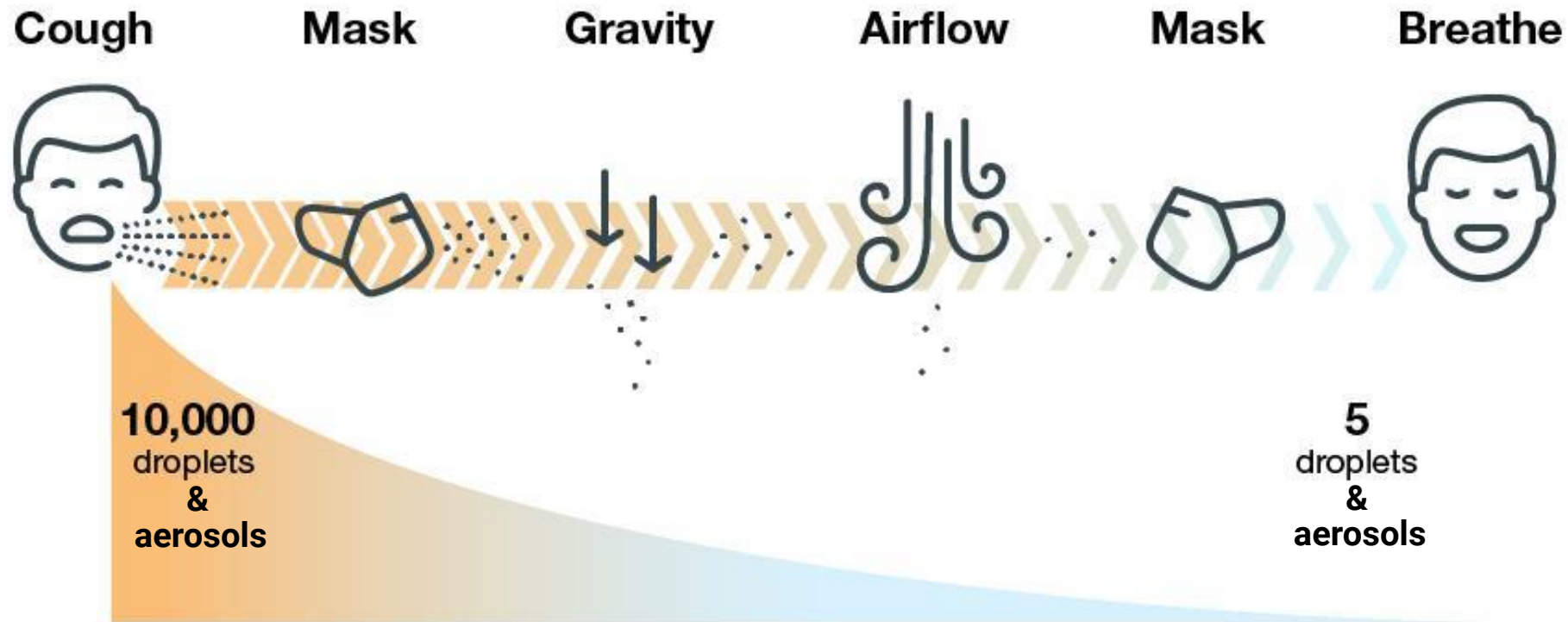
3D Computational Fluid Dynamic models of cabin air flow

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.

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



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

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Thank you for your attention

