Keep Trust in Air Travel
Preview of Airbus’ latest cabin air studies

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Cabin air is fully renewed every 2-3 min.

Constant injection of fresh air.

Hospital-grade filters remove > 99.9% of particles.

Optimised top-to-bottom flows limit air mixing between rows.

Back of the seats acting as additional barriers.
To further understand particle propagation inside an aircraft cabin

Simulation of passenger particle emission events; breathing, talking, coughing and sneezing

→ High quality full 3D Computational Fluid Dynamic models of cabin air flow, correlated with aircraft test-data and physical ground tests

→ Medical specialists consulted in several countries enabling accurate representation of passenger emission events (breathing, talking, coughing and sneezing),

→ Air speed, direction, temperature computed at 50 million data points inside the cabin

→ Calculations repeated up to 1,000 times to represent 1 second in real time
Physical distancing onboard aircraft can be achieved even when all seats are occupied.

Key findings

Protective barrier layers

The study demonstrates very low risk of particle exposure for passengers

Result of a combination of all cabin features, airflow patterns and fresh air injection + Passengers wearing masks, following safety instructions
Based on the CDC* recommendation of 6 feet physical distancing minimum without a mask = 1 foot distance onboard the aircraft with a mask

*CDC = Center for Disease Control
Thank you