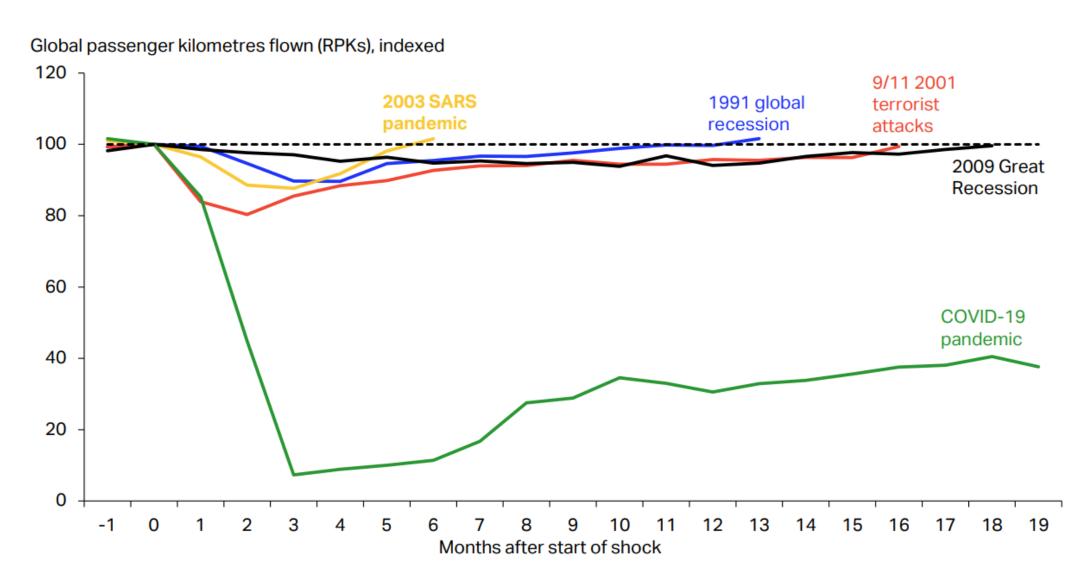
COVID-19: Lessons Learned

Preparing for future pandemics



COVID-19 had an unprecedented impact on air travel





Source: IATA Economics using data from IATA Monthly Statistics. Data is adjusted for seasonality.

Extensive Lessons Learned from COVID-19

Multiple challenges, one key theme: Fragmented response to COVID-19 delayed recovery.

- Lack of coordination between States in terms of measures applied
- Patchy collaboration and engagement between travel and health sectors
- Absence of transparency around risk assessments
- Confused communication of measures
- Lack of global standard for health credentials vaccine certificates, test results
- Collection of traveler information Industry became de facto health inspector
- Particular challenge around treatment of crew

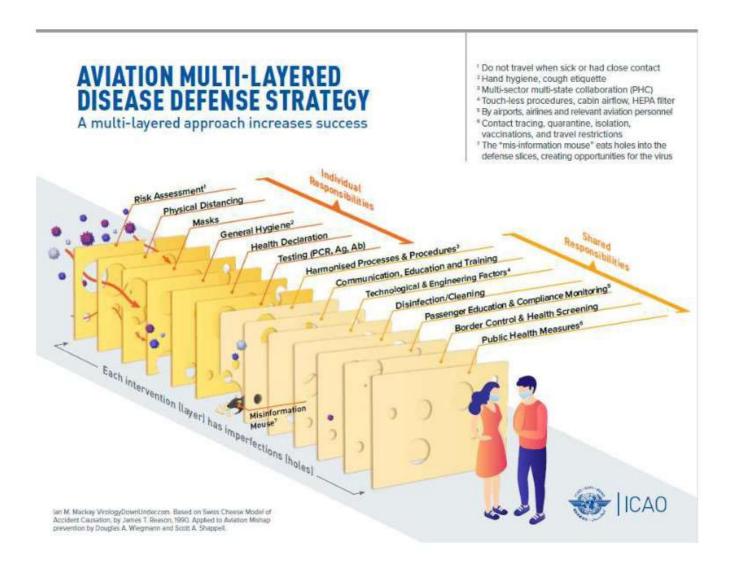
Review to COVID response to inform preparedness efforts remains critical

Purpose: To inform development of a "playbook" for responding to "Disease X"



CART was critical and transformational in mid-2020

"Swiss-cheese" model appropriate given unknowns at the time





Extensive research into airflow in cabin environment

Ventilation Air Rate (VAR) is a standard measure for the exchange of air in a given space – office, shopping mall, airplane...

Here's how an airplane's Ventilation Air Rate compares:



Comparison based on data from ANSI/ASHRAE Standard 62.1 – Ventilation for Acceptable Indoor Air Quality (2019) and an aircraft operation with the max certificated number of passengers.

99.993%

<u>bacteria/virus</u> removal efficiency rate

Including SARS, which is similar to COVID-19, according to independent testing.

50/50

Mix of <u>HEPA-filtered / fresh air</u> onboard

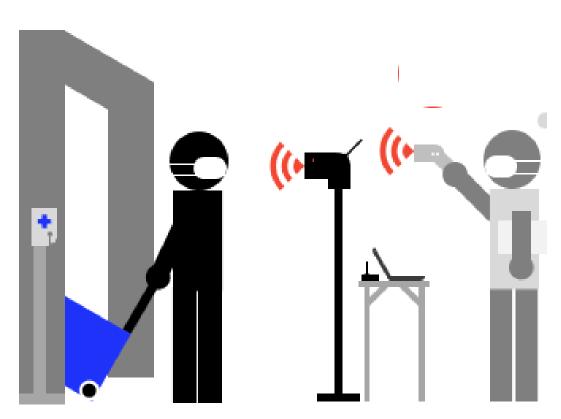
And this is changed 20-30 times per hour.

3 minutes

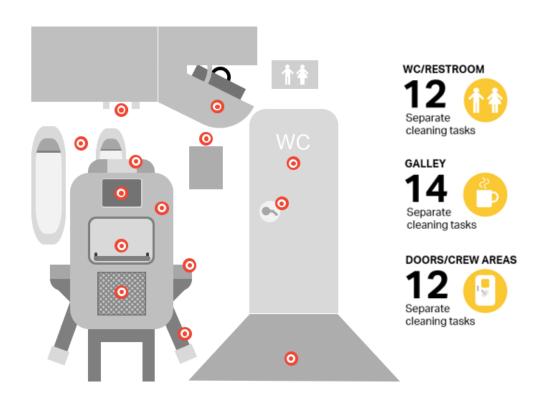
Cabin air is <u>refreshed</u> on average every 3 minutes

Hospitals \approx 10 minutes Offices \approx 20 minutes.

Merits of measures unclear; operational impact significant Temperature checks and extra disinfection largely ineffective



Pana et al "Real-World Evidence: The Low Validity of Temperature Screening for COVID-19 Triage" Public Health, Infectious Diseases – Surveillance, Prevention and Treatment Volume 9 - 2021 30 June 2021.



CDC US Centers for Disease Control and Prevention. Science Brief: SARS-CoV-2 and Surface (Fomite) Transmission for Indoor Community Environments. Posted 2021, Apr 5

Important to consider new and alternative approaches

Wastewater testing could play a key role in surveillance







IATA committed to supporting ICAO and CAPSCA

Magnitude of COVID impact on air transport highlights importance of preparedness

Lessons-learned review of COVID response deliverable if properly scoped:

- ✓ Narrow focus on public health risk mitigation measures not reopening all of CART
- ✓ Science-based approach there is already a significant evidence base to draw on
- ✓ Should incorporate new technologies and approaches where appropriate

Key outputs are targeted and build on existing resources

- ✓ Evidence review document
- ✓ Guidance for responding to future health emergencies robust to different pathogens.
- ✓ Effective project management will be key to timely delivery

Critical that ICAO and CAPSCA resources for this initiative are safeguarded



Thank You

Vinoop Goel IATA, Asia-Pacific

goelv@iata.org

