



Health Onboard

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Airbus initiative for a long-term sustainable capability to face potential future pandemic

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Why a Health Risk Assessment Model?



Air transport related health risks can be addressed in a similar way as aircraft safety.



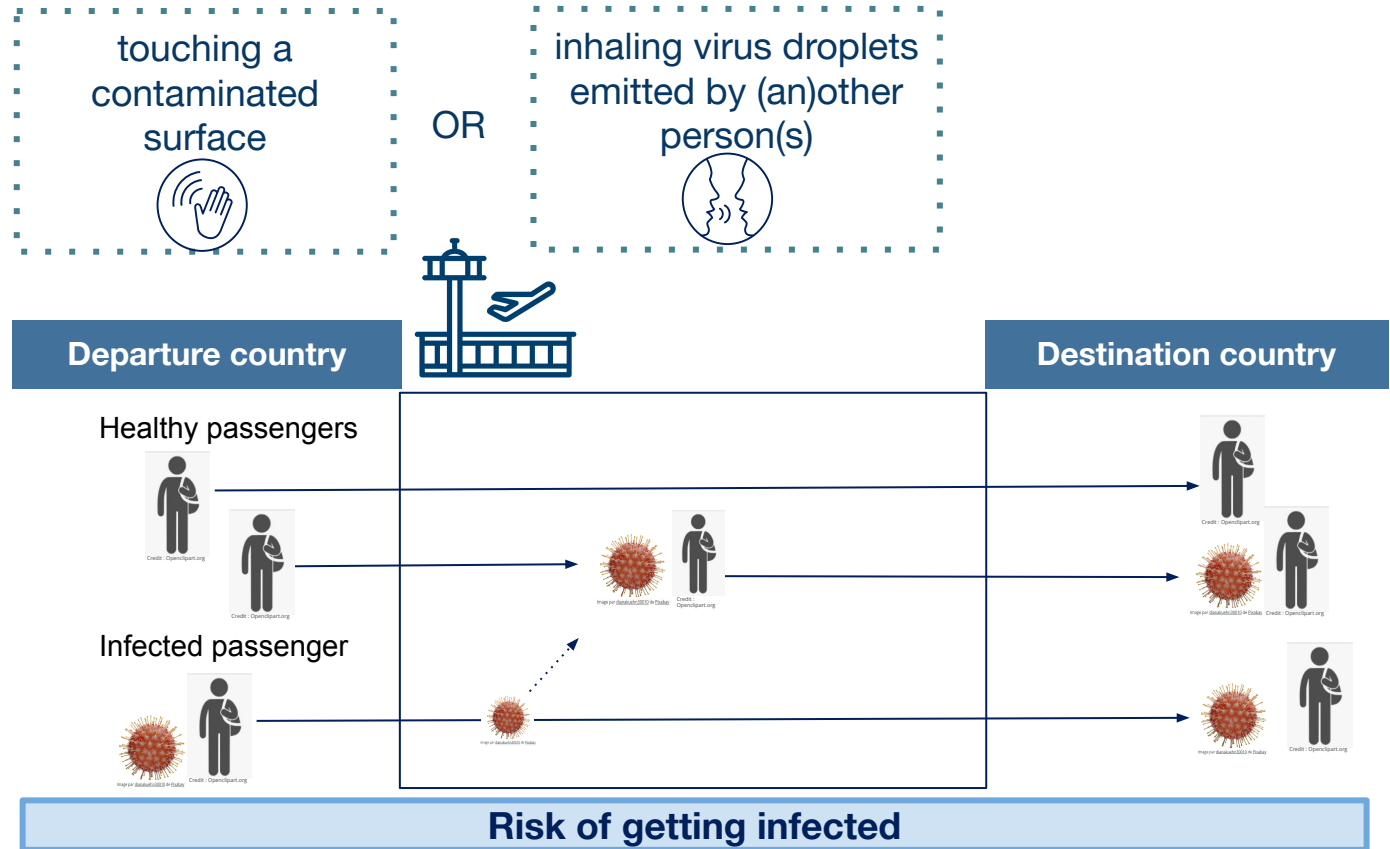
Risk can be reduced by layering and overlapping several preventive & protective measures.



Supporting government stakeholders and regulatory bodies.

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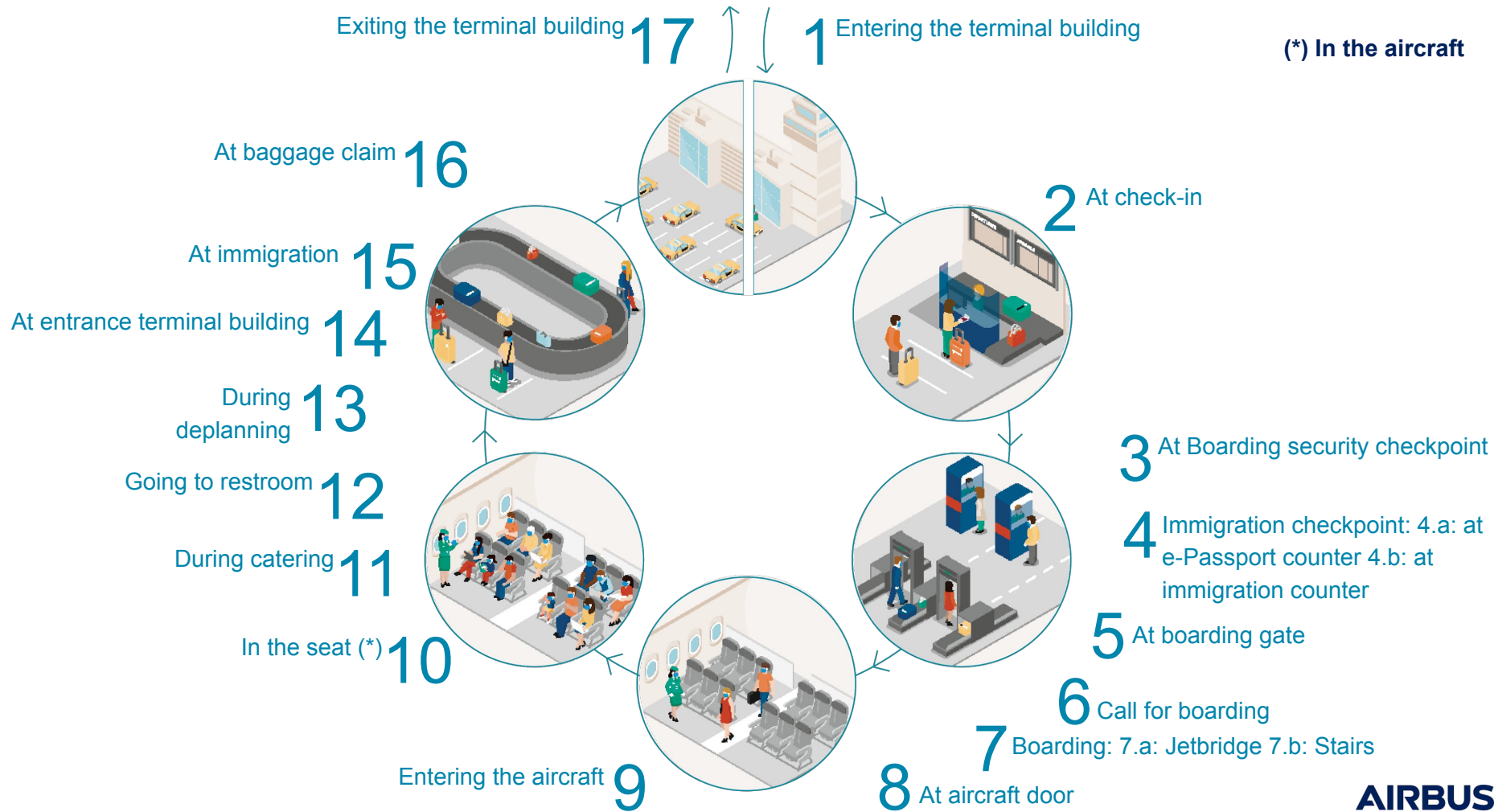
What are the risks of infection?



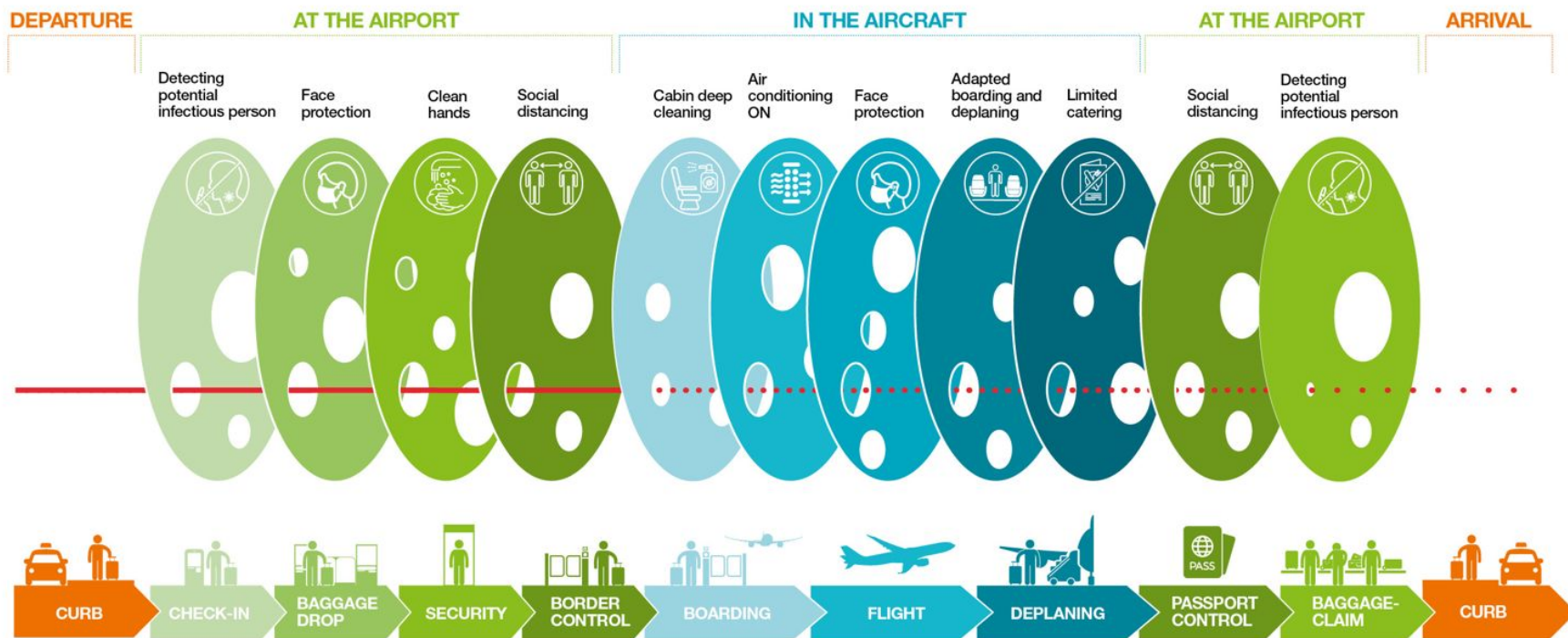
Threat:

Passengers may be infectious *before travel*

Some passengers might infect other passengers *during travel*



Air travel: A layered approach of preventative measures



Source: Mackay, Ian M. (2020) The Swiss Cheese Respiratory Virus Defence. figshare. Figure. <https://doi.org/10.6084/m9.figshare.13082618.v22>

Flight Time (h)



Check-in

☐ online ☒ kiosk ☐ counter

Immigration/Passport control

☐ none ☒ kiosk ☐ counter

Total Time in Terminal (h)



Catering

☒ Yes

Test Strategy

No Testing

Number of pax

200

of pax in boarding group

24

Seats at gate

100

% Seats blocked at gate

50

of flights using same gate

10

Fomites factor

1

Air Cond Efficiency Factor

5

Average sneezing rate (per day)

% Mask efficiency

80

Time eating (catering)

20

Number of flights since A/C cleaning

0

% of pax eating at the same time

100

☐ All pax vaccinated

% avg eff at preventing infection

62

% avg eff at preventing disease

75

☐ Manual Covid inputs

14 day cases

500

Lethality Rate %

0.7%

Population (M)

1.5%

Departure Region

Europe

Destination Country (reference)

France

% Air Traffic compared to 2019

100

% Vaccinated Departure

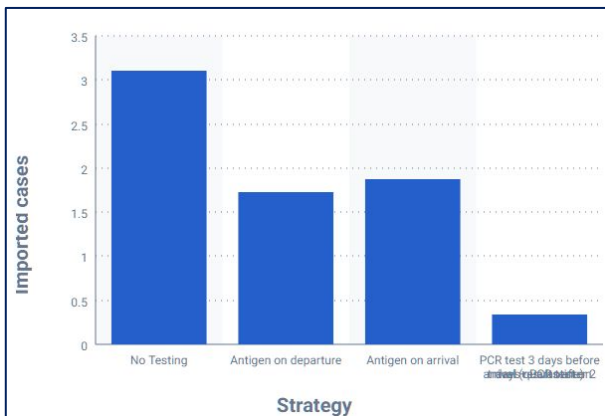
66

14 day Incidence Destination

485

Transmission Rate Destination

1.62



☒ No testing

☐ PCR test 3 days before travel

☒ Antigen on departure

☒ Antigen on arrival

☐ PCR test on arrival (results after 2 days quarantine)

☐ Quarantine 3 days after travel + Antigen test

☐ Quarantine 3 days after travel + PCR test (results after 2 more days quarantine)

☐ Quarantine 5 days after travel + PCR test (results after 2 more days quarantine)

☐ Quarantine 7 days after travel + PCR test (results after 2 more days quarantine)

☐ PCR test 3 days before travel + Antigen on arrival

☒ PCR test 3 days before travel + PCR test on arrival (results after 2 days quarantine)

☐ Antigen on departure + Antigen on arrival

☐ Antigen on departure + PCR test on arrival (results after 2 days quarantine)

☐ PCR test on arrival + Quarantine 5 days + PCR test (results after 2 more days quarantine)

☐ PCR test 3 days before travel + Quarantine 3 days after travel + PCR test (results after 2 more days quarantine)

☐ PCR test 3 days before travel + Quarantine 7 days after travel + PCR test (results after 2 more days quarantine)

☐ Quarantine 14 days after travel

Key takeaways

- 1 Travelling by air remains very safe
- 2 Risk can be mitigated to an acceptable level by choosing the right screening strategy
- 3 Aviation today is capable of restricting virus translocation in collaboration with all aviation stakeholders

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Email us ⇒ covid.e2emodel@airbus.com

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