



COVID-19 Survey Results on Vaccine, Quarantine and Testing

By ACI Asia-Pacific Task Force COVID-19

March 2021

About the survey

- 3rd survey by COVID-19 TF
- 35 questions in 3 sections:
 - Vaccine
 - Quarantine
 - Testing
- Sent to the Board and COVID-19 TF
- 34 responses received (24 countries)

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34 survey respondents









































































Table of content

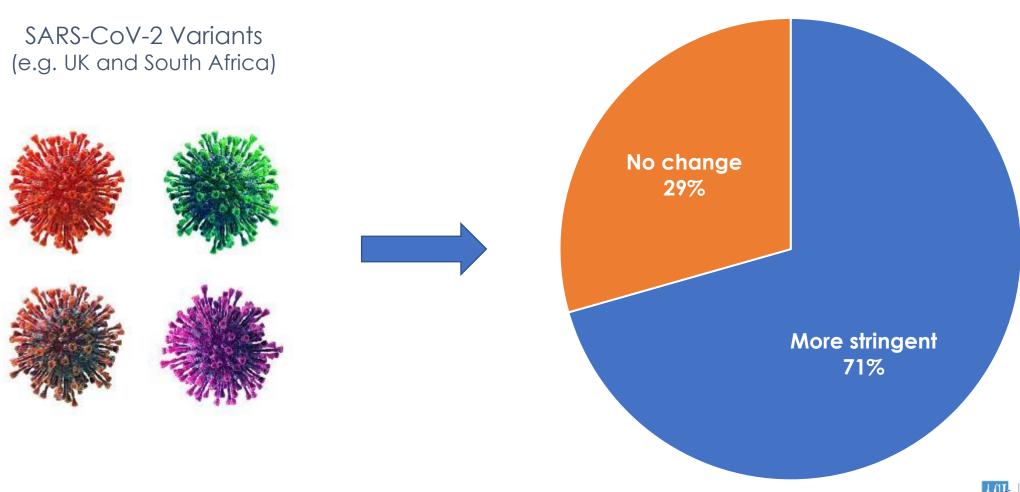
1) Prospects of international travel in 2021

- Obstacle to travel (COVID variants, quarantine and testing regimes)
- Stimulus to travel (vaccine progress)

2) Operational considerations for airports

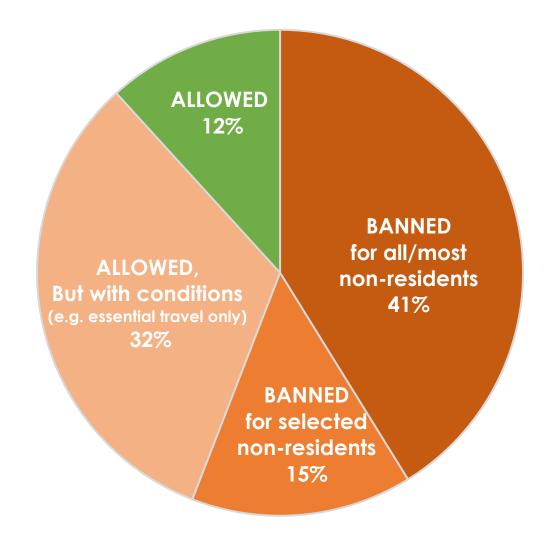
- Vaccine logistics
- COVID testing at airports
- Health measures' impacts on terminal ops

How are COVID variants impacting testing and quarantine?



International travel still largely constrained

Are international pax (non-residents) allowed to enter?



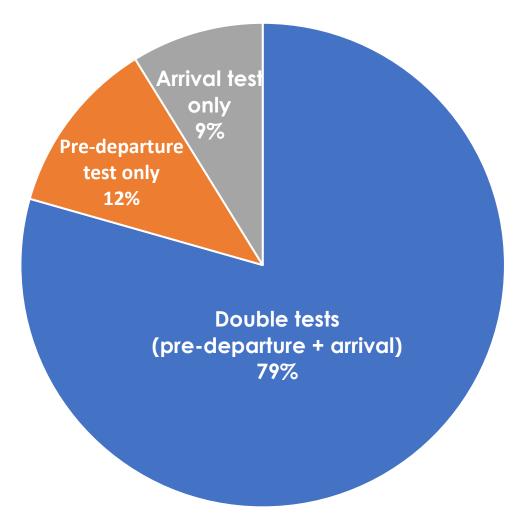
Examples of additional stringent conditions

- Advanced approval from Gov
- Essential travel only (e.g. study, business)
- Medical insurance
- Advanced submission of itinerary



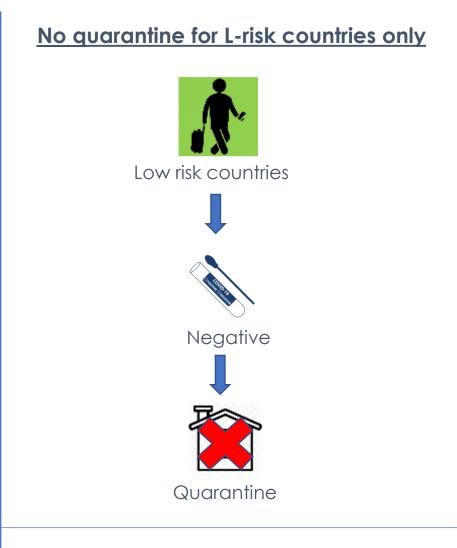
Even if travel is allowed, multiple tests are needed

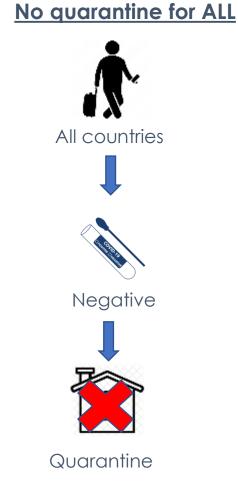
How many tests needed per trip?

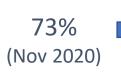


Quarantine is almost inevitable

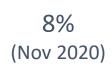
Quarantine for ALL All countries Positive/Negative Quarantine



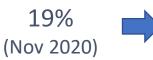






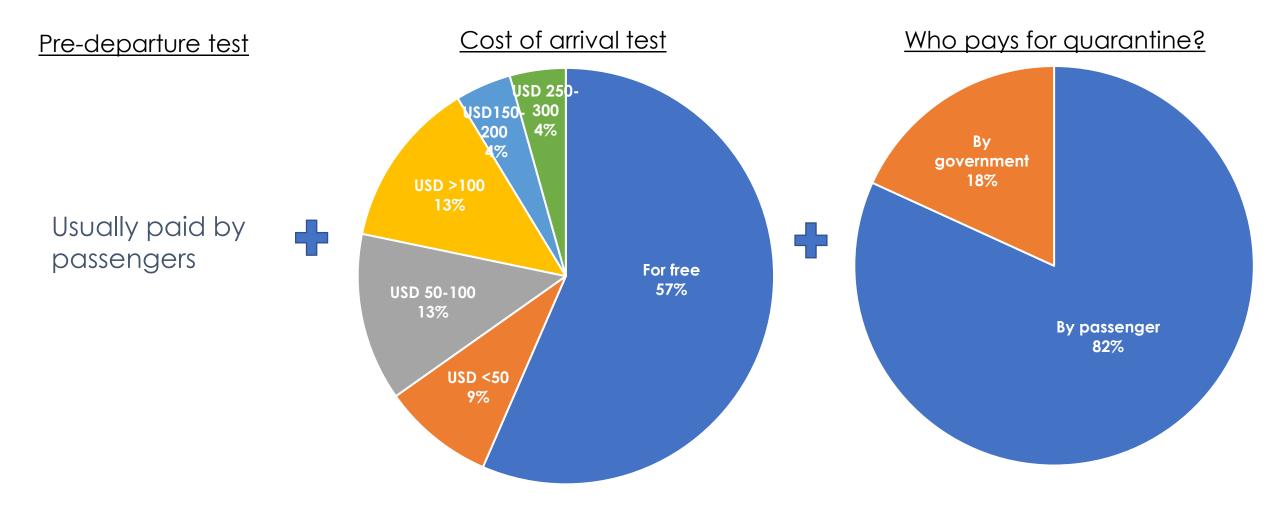








Additional cost involved for passengers



WHO International Health Regulations (IHR 2005)

"no charge shall be made by a State Party... for any medical examination and quarantine requirements of travellers...."



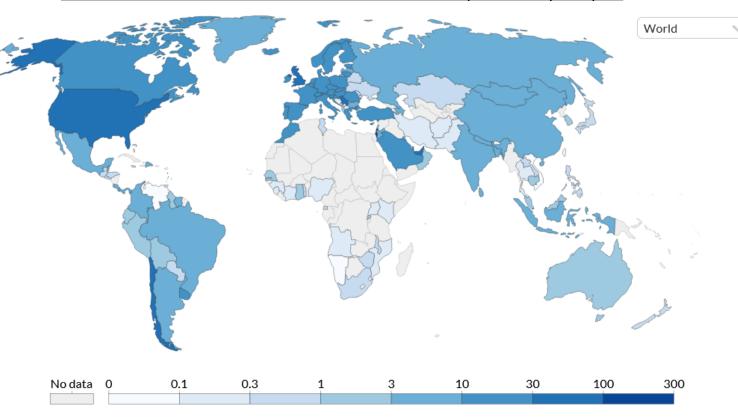
With vaccination, do we start to see light at the end of the tunnel?







COVID-19 vaccine doses administered per 100 people





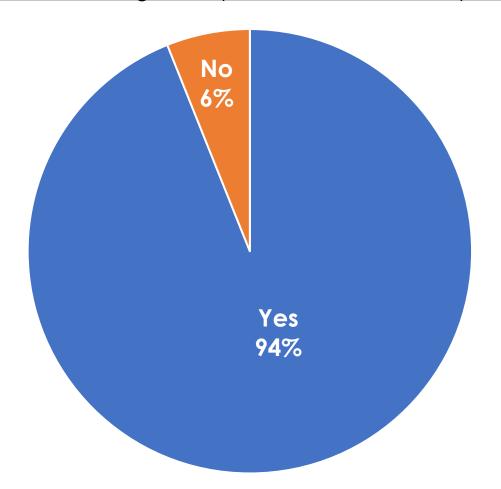




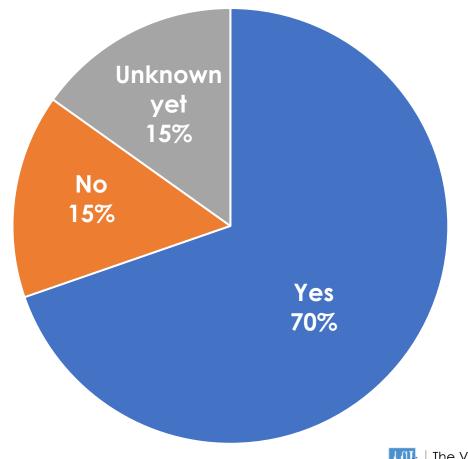
Source: Our World in Data (as of Mar 2021)

National vaccination progress

Vaccination for general public to start before April 2021?

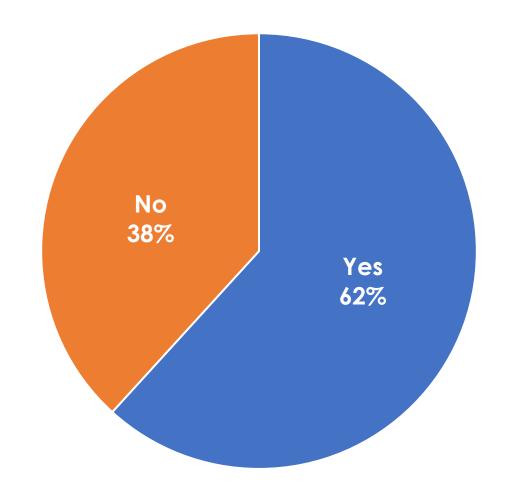


Airport workers given priority for vaccination?



Vaccination timetable for general population?









Operational Considerations

1) Vaccine logistics

Global vaccine distribution - unprecedented scale and challenges













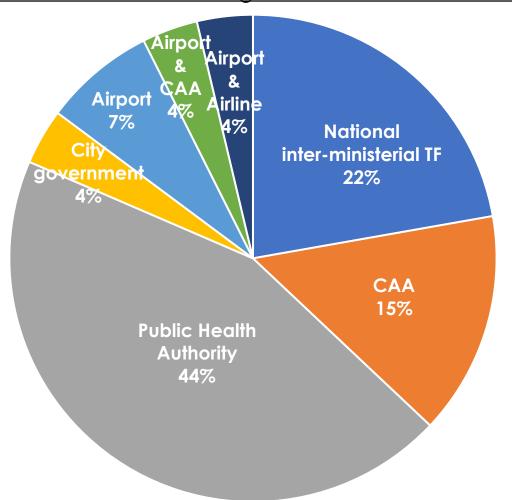




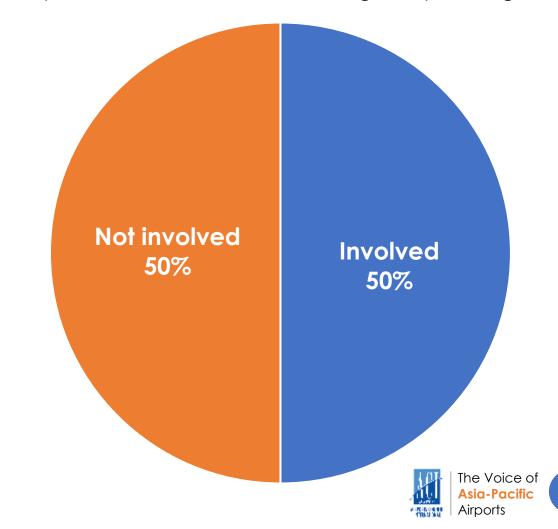
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COVID vaccine logistics planning

Who leads the aviation logistics of vaccine distribution?



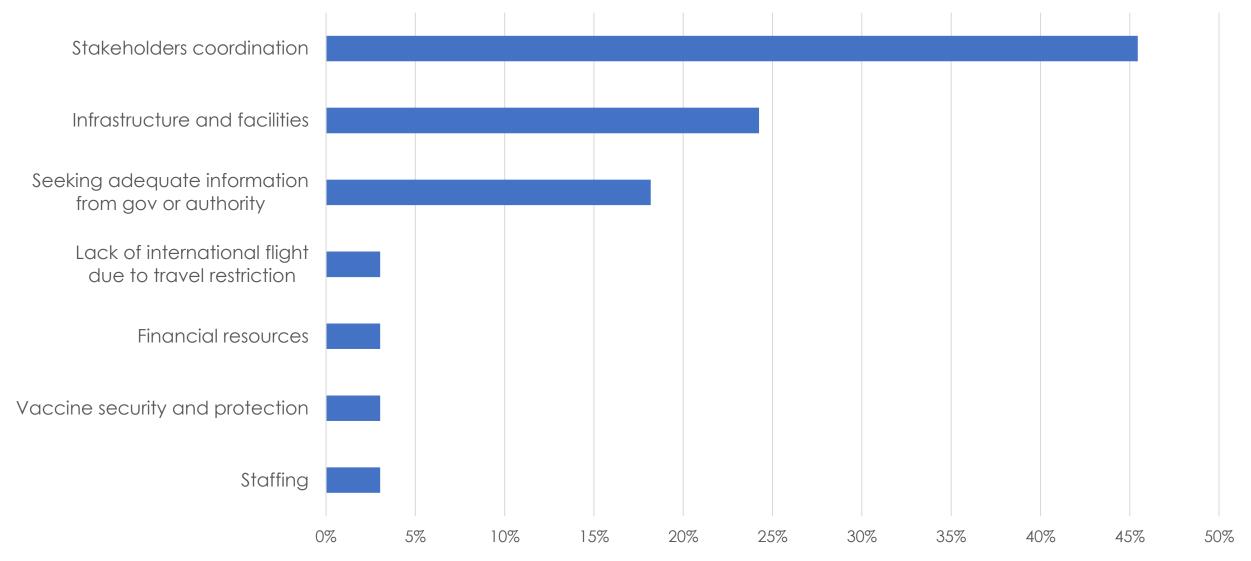
Is airport involved in the vaccine logistics planning?



Additional resources by airports for COVID vaccines logistics

Additional resources invested/deployed by airport*? **Examples of additional resources** Temperature-controlled storage Cool dollies Apron shelters Yes, some additional investment by airport Physical space at ramp/cargo building 33% Additional staffing No additional investment by airport Security protection 67%

Top challenges for airports on vaccine logistics



Advisory bulletin to help airports on vaccine distribution





ACI ADVISORY BULLETIN

Airport preparedness for Covid-19 vaccine distribution

Montreal, 10 December 2020 – The rapid development of Covid-19 vaccines by the global pharmaceutical industry is a positive indicator for a return to a somewhat normal state of being in 2021.

The global distribution of these vaccines is likely to be one of the biggest logistical challenges ever faced by the transportation and logistics industry.

Along with a multitude of stakeholders involved in the global distribution chain, the aviation industry has a key role in facilitating the rapid and safe delivery of large volumes of doses of these vaccines including the syringes and other medical equipment needed for the vaccination campaigns.

In this regard, airports play a central role as gateways for the incoming and outgoing shipments of vaccines and equipment. Airport operators are primarily responsible for facilitating and coordinating the activities related to this logistical process taking place on their premises, and in some cases are directly involved in the operations.

Many airports are involved in the global effort and planning process underway and have developed, or are currently developing, local operating concepts to address any potential challenges. All stakeholders agree that being adequately prepared, anticipating the possible impacts of this distribution process and having a coordinated operations plan will ensure the overall success of the vaccination campaigns that will be launched by States in the coming weeks and months.

The purpose of this advisory bulletin is to support the planning processes already underway through the identification of some of the challenges that global vaccine distribution will pose for airports, as well as provide some guidance to airport operators on points to consider while finalizing their local plans.

It is therefore recommended that the considerations listed below, should be reviewed and analysed by airport operators as part of their planning processes.

Published in Dec 2020

Operational considerations

- Cold chain infrastructure and facilities
- Slot prioritisation for cargo flights carrying vaccines

Safety considerations

- Emergency preparedness for the increased use of dry ice
- Safety risk assessment for increased flight volume or larger aircrafts

Security considerations

- Security risk assessment for potential acts of unlawful interference
- Protection and screening of vaccines

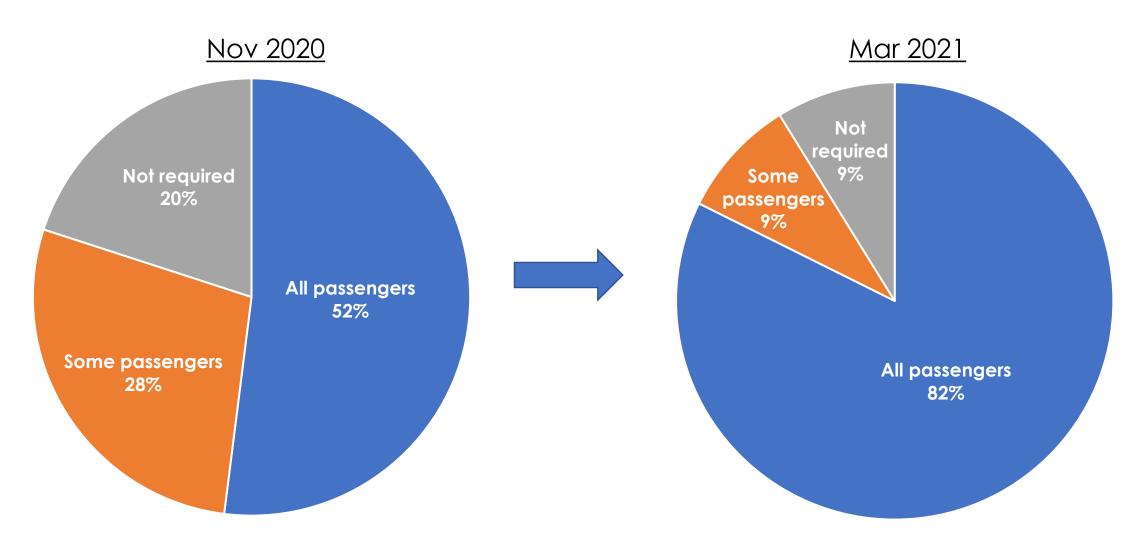




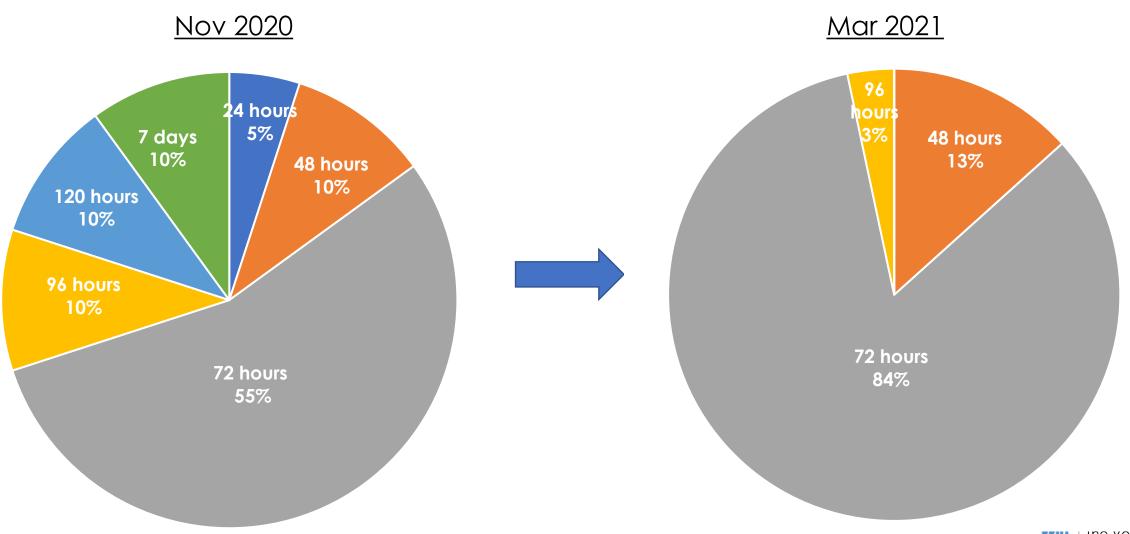
Operational Considerations

2) COVID testing at airports

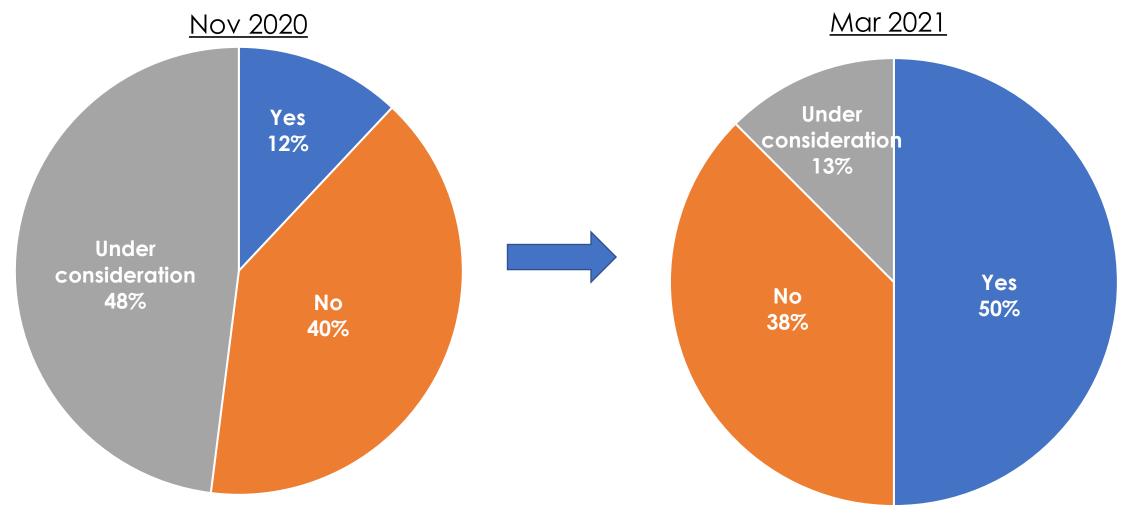
More passengers are now required to take pre-departure test



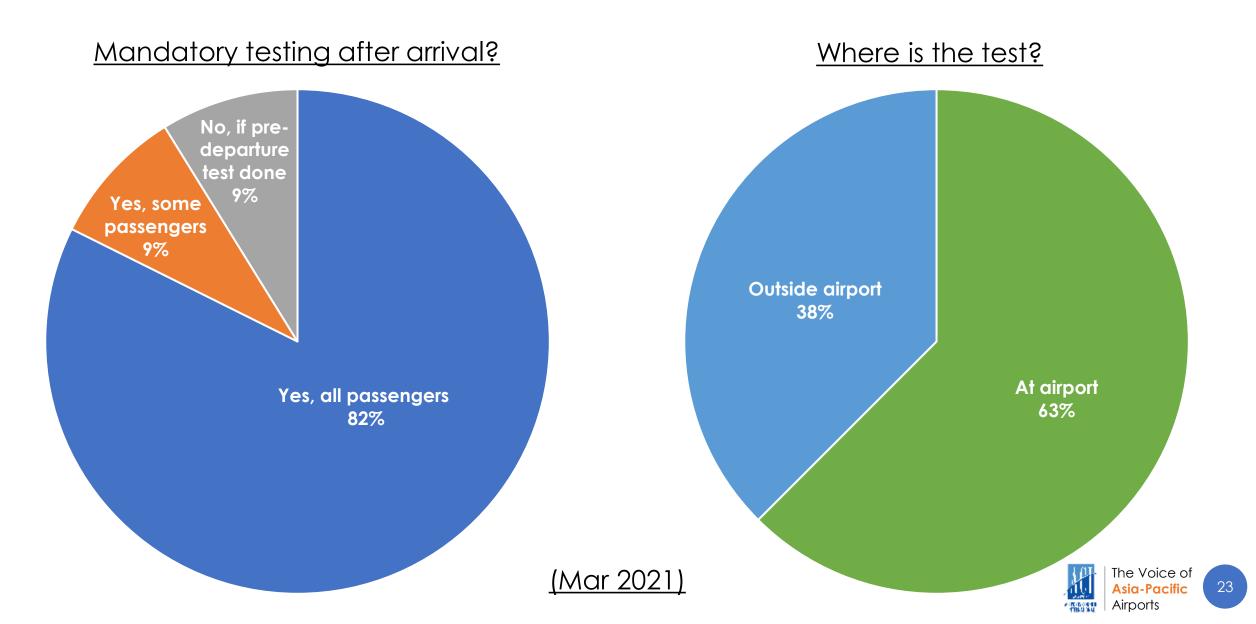
How many hours prior to scheduled departure?



More airports are providing voluntary pre-departure testing



Arrival Test mostly mandatory and at airports



Operations of arrival test at airports

What type of test?

- PCR (80%)
- Antigen (15%)
- PCR + antibody (5%)

Capability of the testing facility?

- Sample collection + lab testing(55%)
- Sample collection (45%)

Average waiting time?

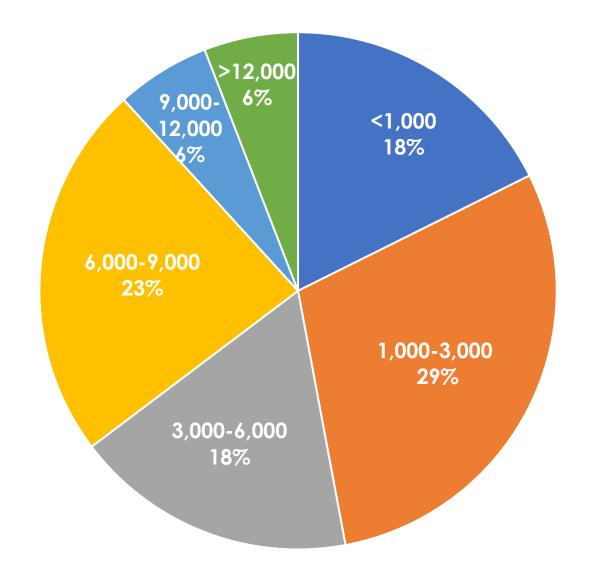
- 2-4 hours (28%)
- 4-6 hours (6%)
- 6-8 hours (17%)
- 8-10 hours (6%)
- >10 hours (43%)

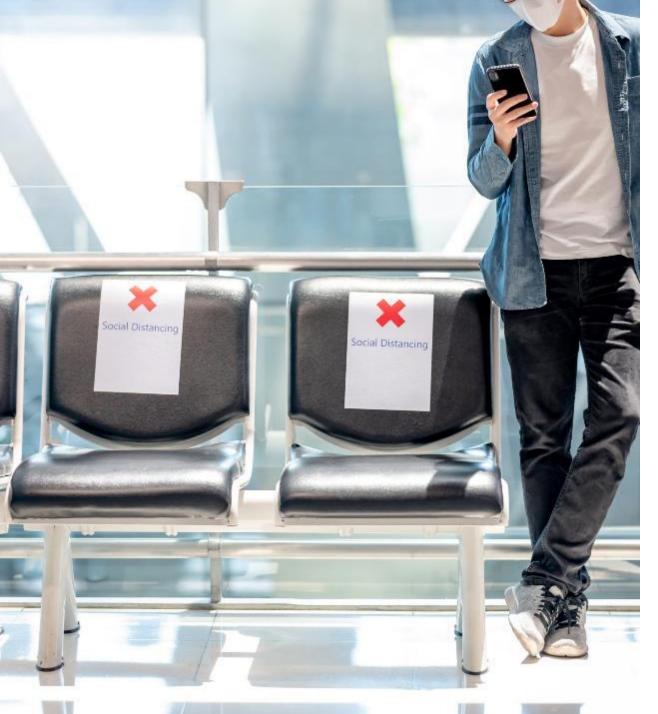
Need to wait at airport?

- Yes (25%)
- No (75%)

Testing capacity of arrival test at airports

What is the maximum testing capacity per day?



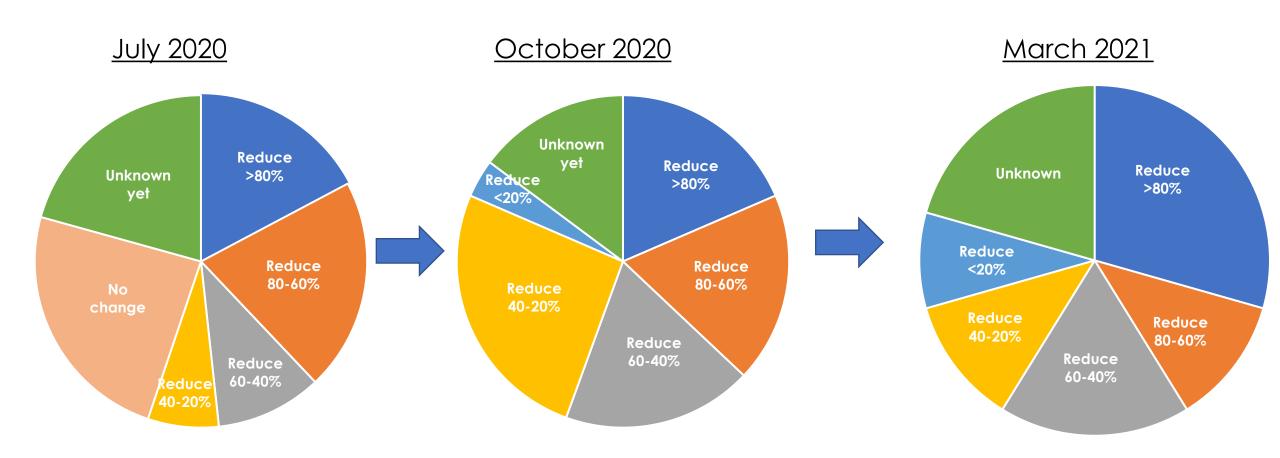




Operational Considerations

3) Health Measures Impacts on Terminal Operations

Estimated impacts on passenger handling capacity



Impact on Terminal Operations: Additional Space needed to maintain pre-COVID throughput



Check-in

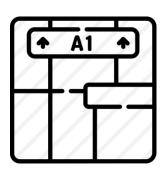


Security



+100% more space

Boarding



+35-50% more space



Immigration



Baggage claim



+30-50% more space





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