



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)

Note: "Percentage" in this survey refers to the general travelling public. When filling in the survey, please include the specific groups of people who have been or could be affected by the measures in terms of travel restrictions, testing and quarantine (e.g. diplomats, etc.)

Category	Sub-category	Q no. Question	Response [Choose from the drop down options]
COVID measures	National vaccination programme	Q1 How a COVID vaccination programme for the general public should be implemented in your country or territory?	
		Q2 If you do not, is vaccination planned to start before April 2023?	
		Q3 How airport authorities plan to prioritise for receiving COVID vaccination after the elderly, vulnerable groups and health workers?	
		Q4 How your government published a vaccination timetable for the various groups in the local community for the year 2023?	
		Q5 If you do not, do you agree that RCI (Risk-Profile) should help determine at regional and national levels for a faster process of vaccination in your country or territory?	
	Aviation legislation management	Q6 How any legislative lack forces or equivalent have established at national or local level to handle the aviation legislation of the distribution of COVID vaccines?	
		Q7 If you do not, which organisation or agency is leading the lack forces or equivalent?	
		Q8 If you do not, what is the role of airport operators in the lack forces or equivalent?	
	Airport operational impact	Q9 How additional resources have been invested by the airport operator to enhance procedures for handling COVID vaccines (e.g. upgrade of walk-in refrigerators and equipment)?	
		Q10 How additional security arrangements have been made to ensure the safety and integrity of COVID vaccines during storage and transport at the airport?	
Handling capacity	Q11 Do you think the overall handling capacity of COVID vaccines at your airport can handle the surge of incoming COVID vaccine shipments in 2023?		
Top challenge	Q12 From the airport operator perspective, what is the top challenge of the transportation and distribution of COVID vaccines? (Please select from the drop down options. If there are more than one answer, you may elaborate in the "additional information" box.)		
International travel restrictions	Q13 How restrictions for international travel impact by your country, such as testing and quarantine requirements, become more stringent since the discovery of the new COVID variants?		
	Q14 Regardless of quarantine and testing requirements that may have been put in place because of COVID in your country, are non-residents departing from a foreign country allowed to enter your country?		
Pre-departure testing requirement	Q15 Does your government require inbound passengers departing from a foreign country to provide a negative COVID test result prior to board the plane of embarkation?		
	Q16 If you do not, what type of pre-departure test for inbound passengers is accepted by your country?		
	Q17 If you do not, how many hours before the scheduled time of departure are required for the COVID test to be taken?		
	Q18 If you do not, are there specific inbound passengers (i.e. those who are required to show negative COVID test result prior to board) also required to undergo a COVID test upon arrival?		
		Q19 Does your government mandate inbound passengers departing from a foreign country to undergo a COVID test upon arrival?	

34 survey respondents



Table of content

1) Prospects of international travel in 2021

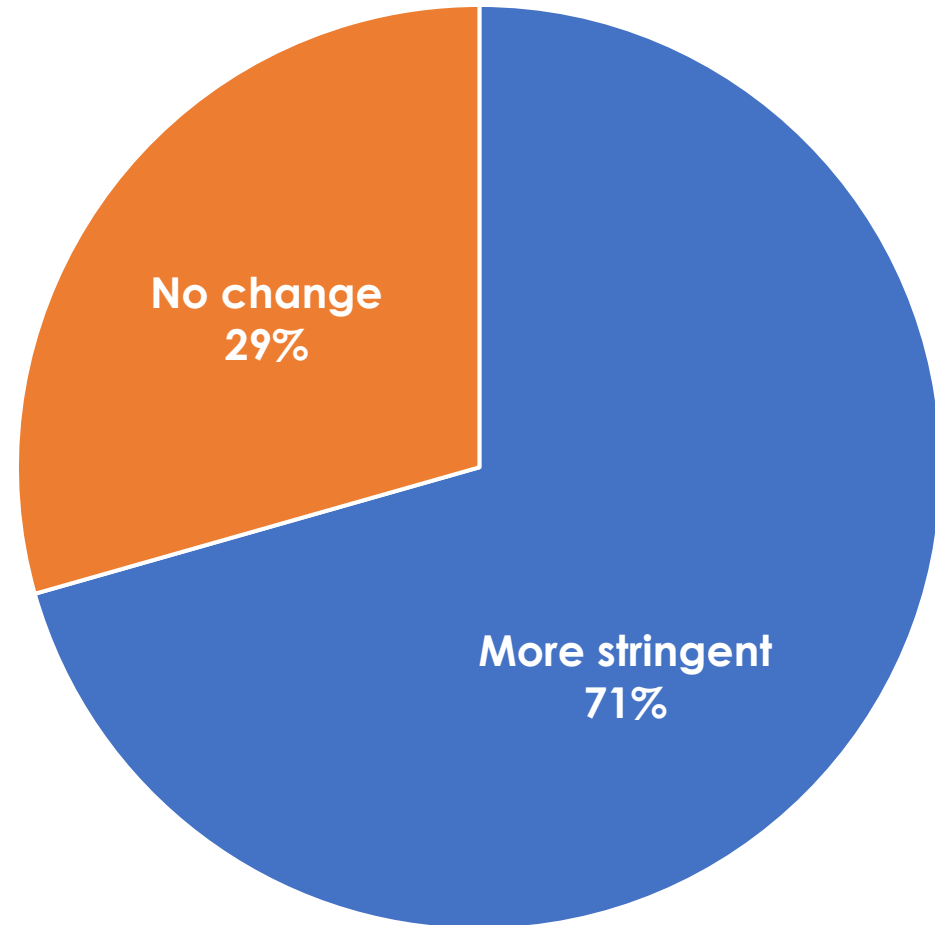
- Obstacle to travel (COVID variants, quarantine and testing regimes)
- Stimulus to travel (vaccine progress)

2) Operational considerations for airports

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

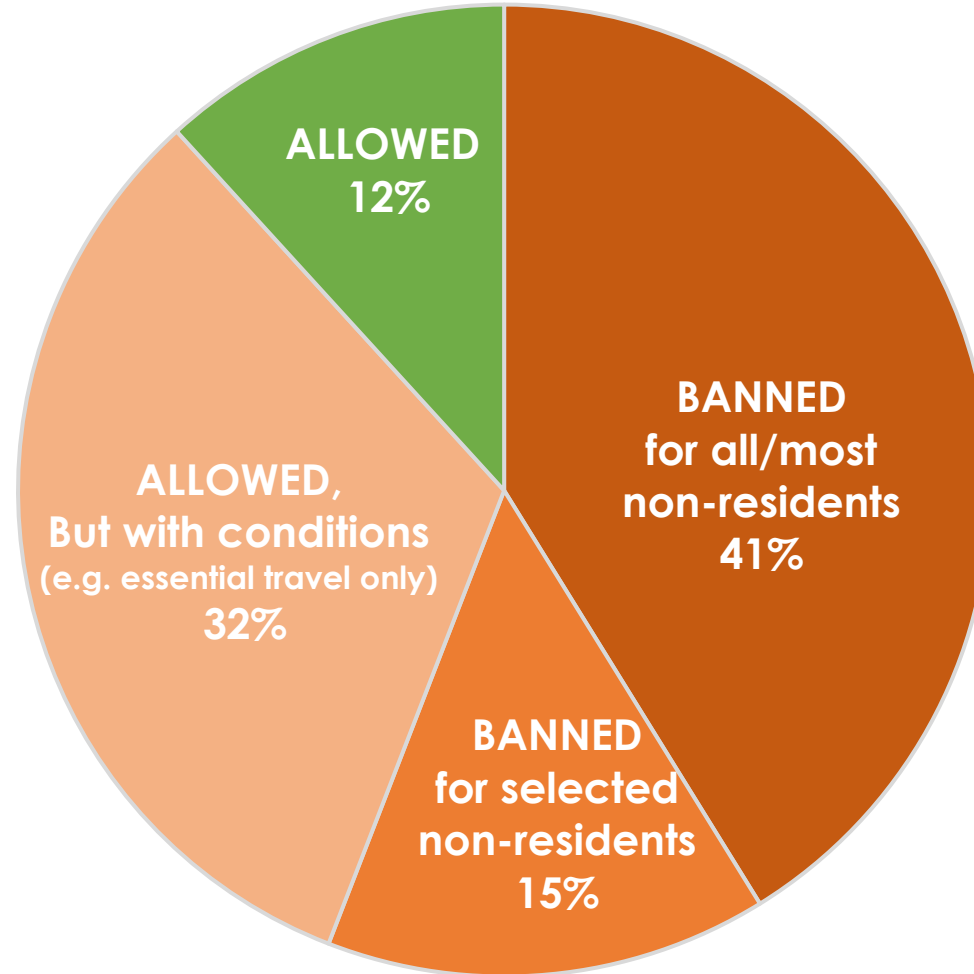
How are COVID variants impacting testing and quarantine?

SARS-CoV-2 Variants
(e.g. UK and South Africa)



International travel still largely constrained

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

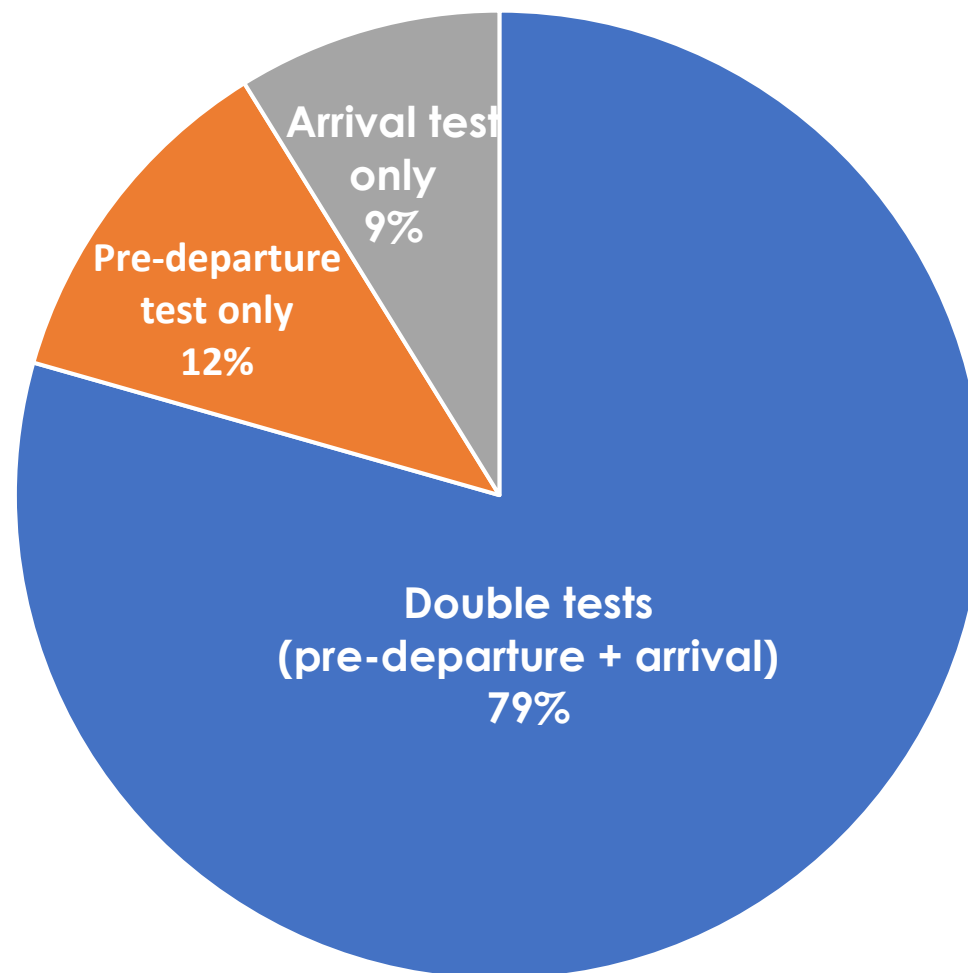


Examples of additional stringent conditions

- 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

73%
(Nov 2020)



82% ↑
(Mar 2021)

No quarantine for L-risk countries only



Low risk countries



Negative



Quarantine

8%
(Nov 2020)



6% ↓
(Mar 2021)

No quarantine for ALL



All countries



Negative



Quarantine

19%
(Nov 2020)



12% ↓
(Mar 2021)

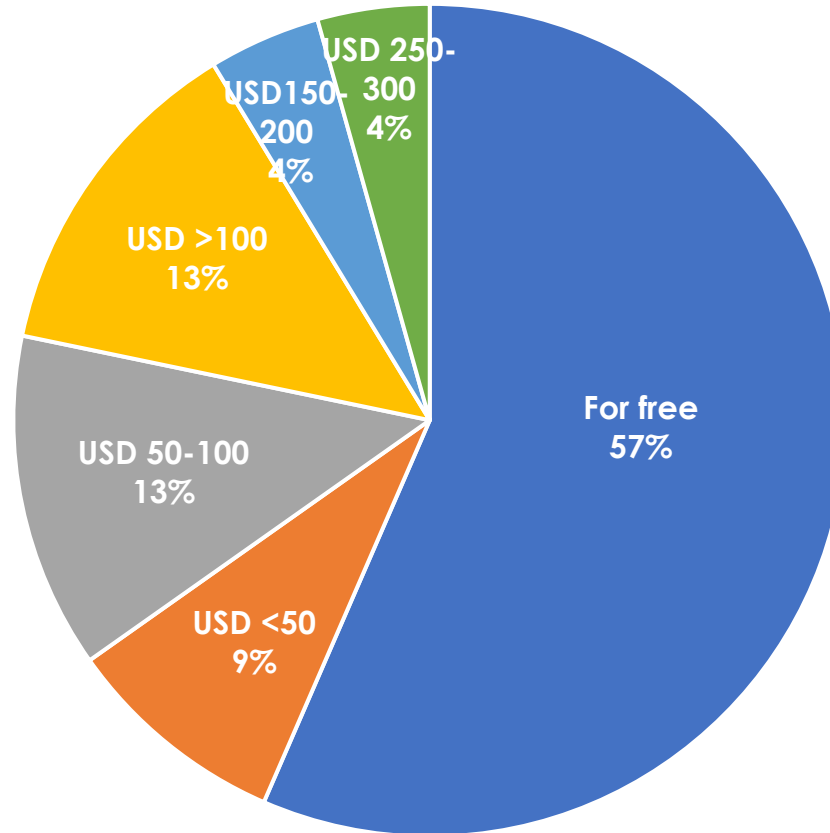
Additional cost involved for passengers

Pre-departure test

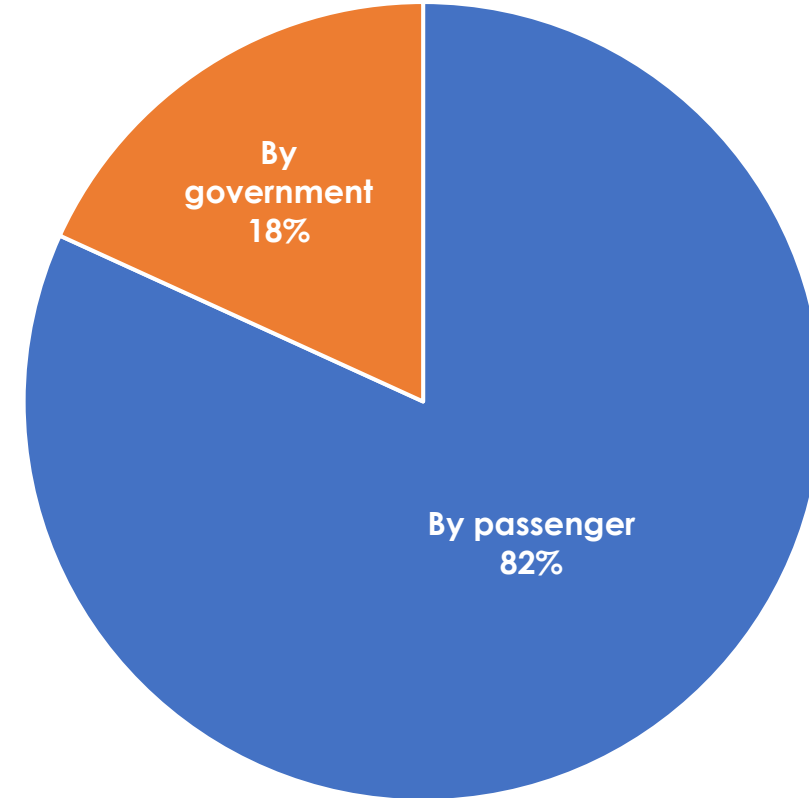
Usually paid by passengers



Cost of arrival test



Who pays for quarantine?

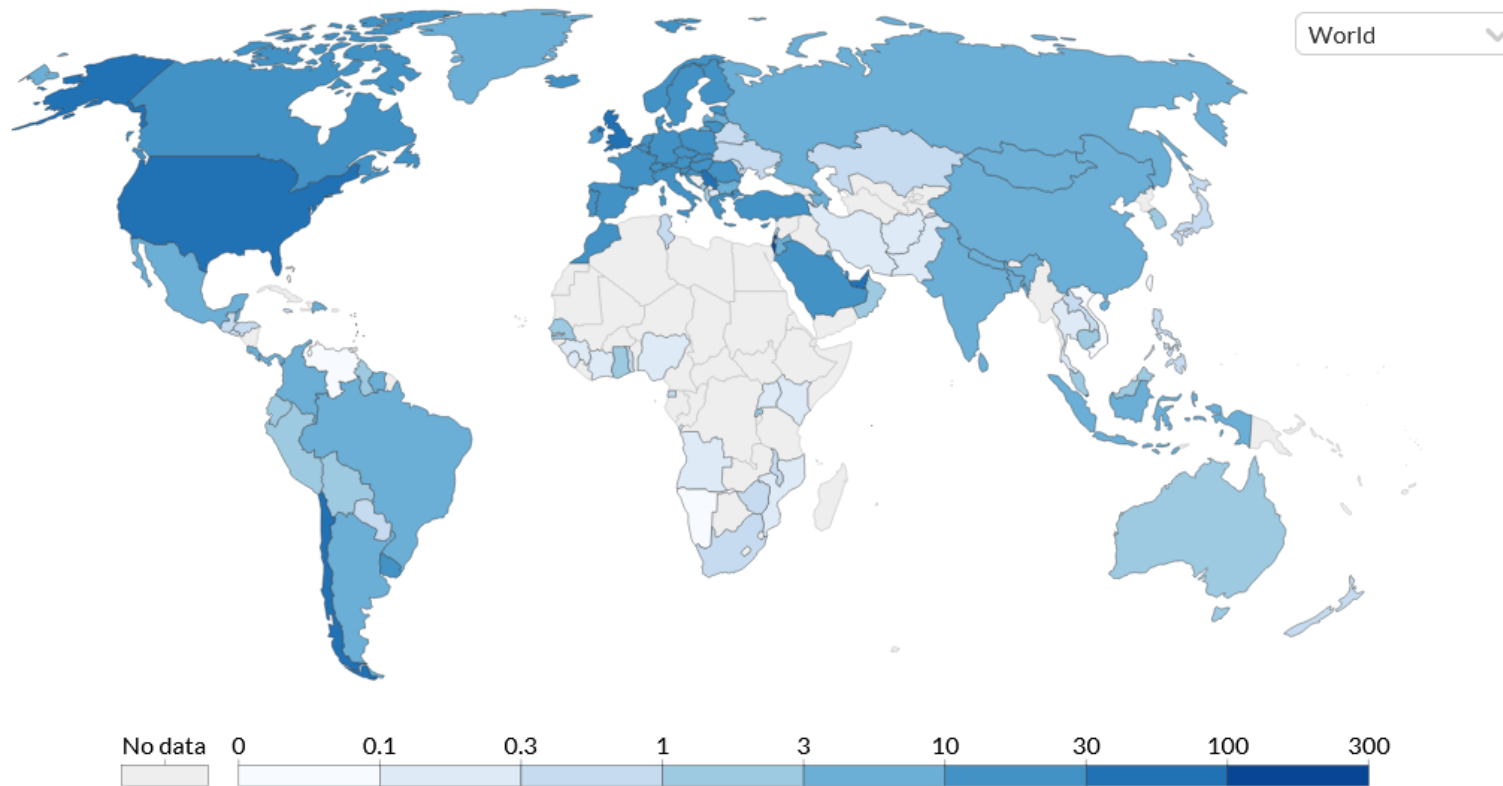


WHO International Health Regulations (IHR 2005)

“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

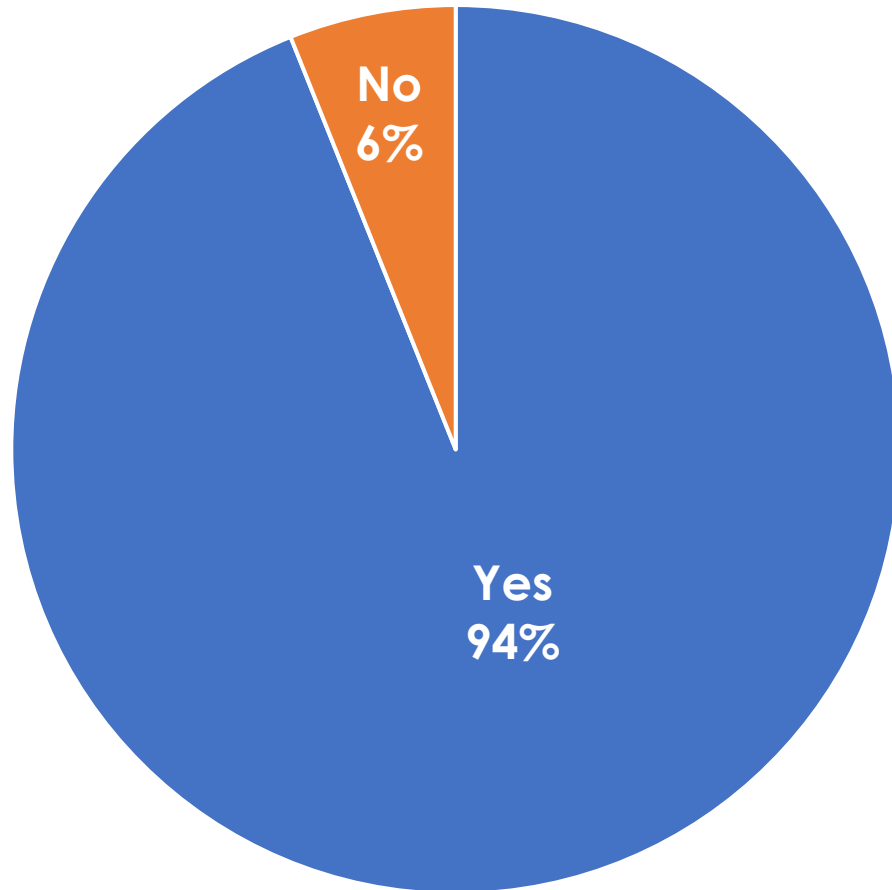


Source: Our World in Data (as of Mar 2021)

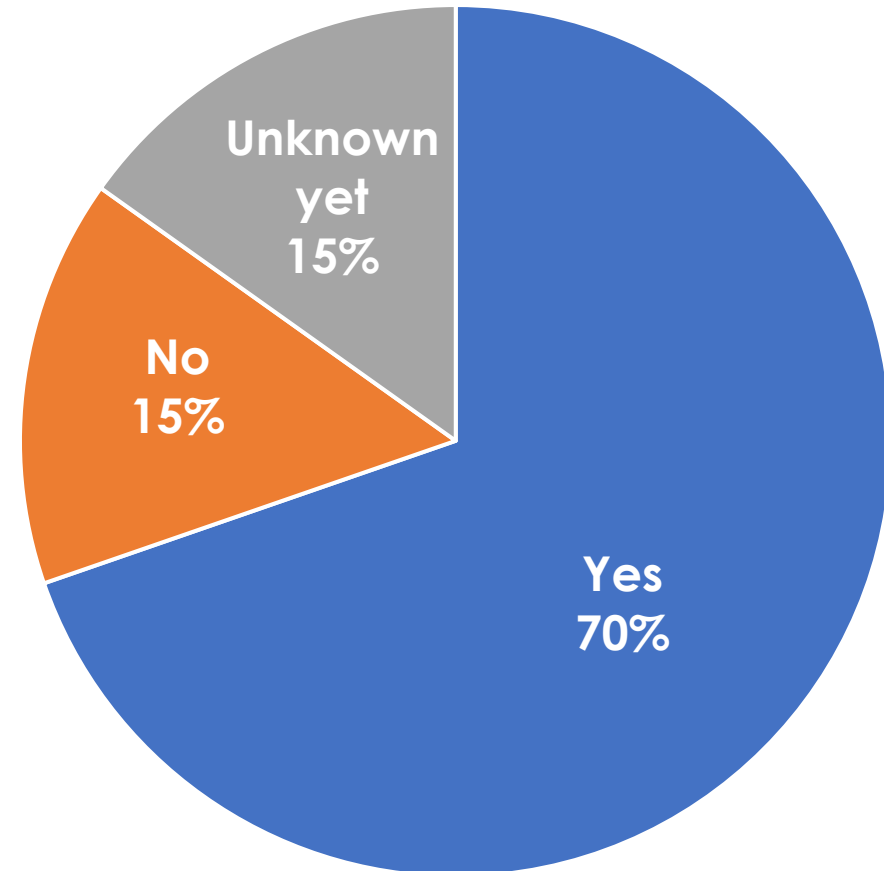


National vaccination progress

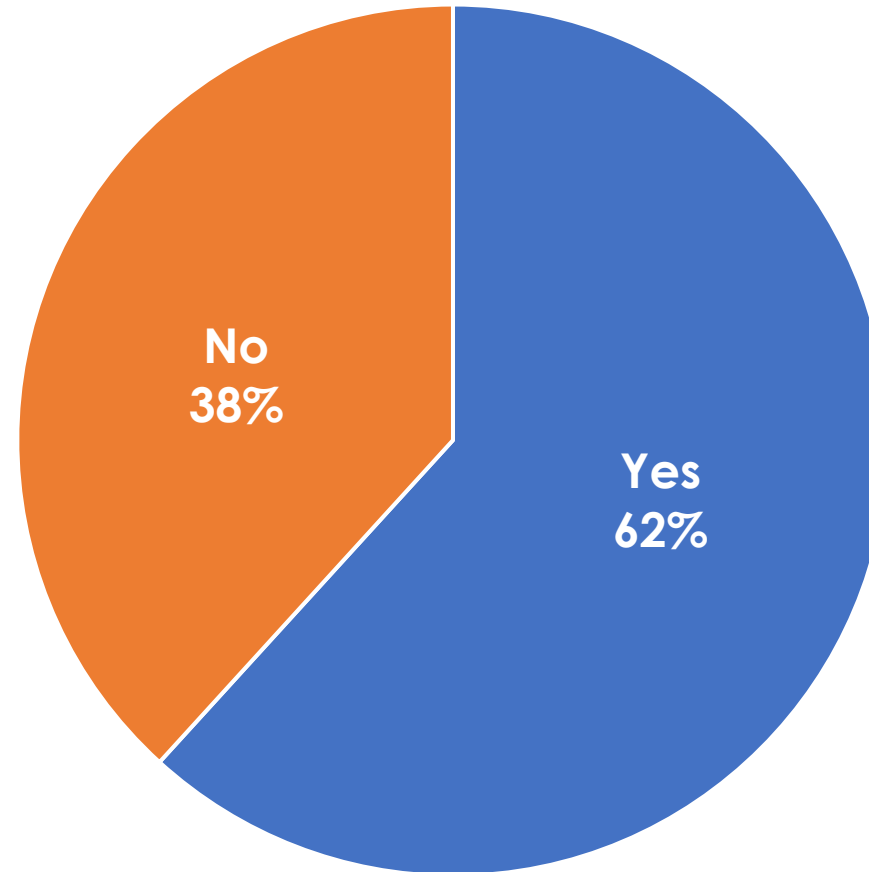
Vaccination for general public to start before April 2021?



Airport workers given priority for vaccination?



Vaccination timetable for general population?





SINGAPORE
AIRLINES
CARGO

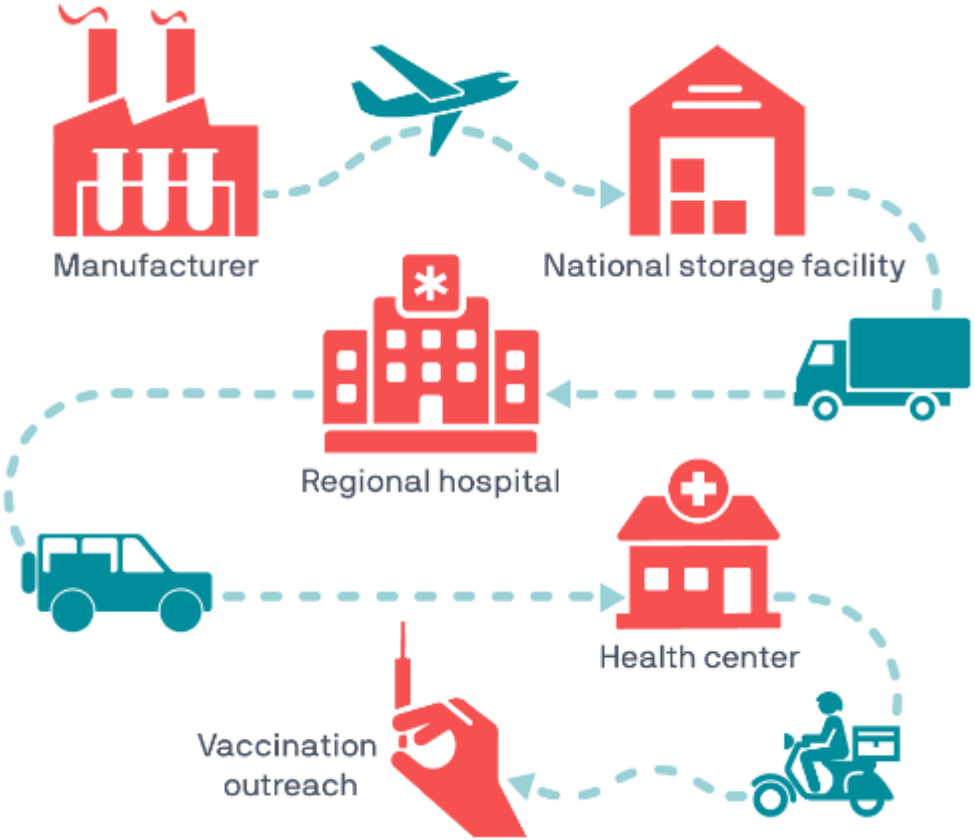
The image shows the front cargo door of a Singapore Airlines aircraft open at night. The door is white with the airline's logo and text. Inside the cargo hold, a large yellow pallet is visible. Ground crew members in high-visibility vests are working around the aircraft. A ground support vehicle is positioned at the door. The scene is illuminated by ground lights.



Operational Considerations

1) Vaccine logistics

Global vaccine distribution - unprecedented scale and challenges



-70 °C



-20 °C



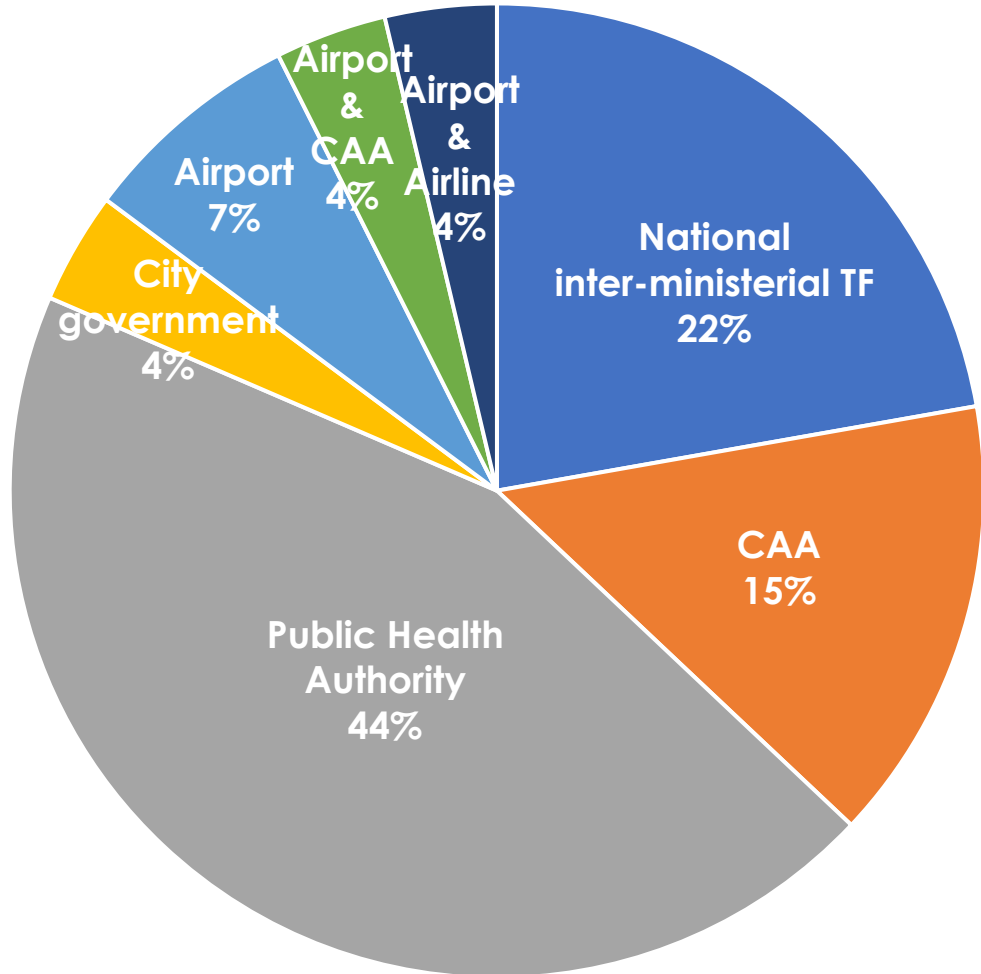
2-8 °C



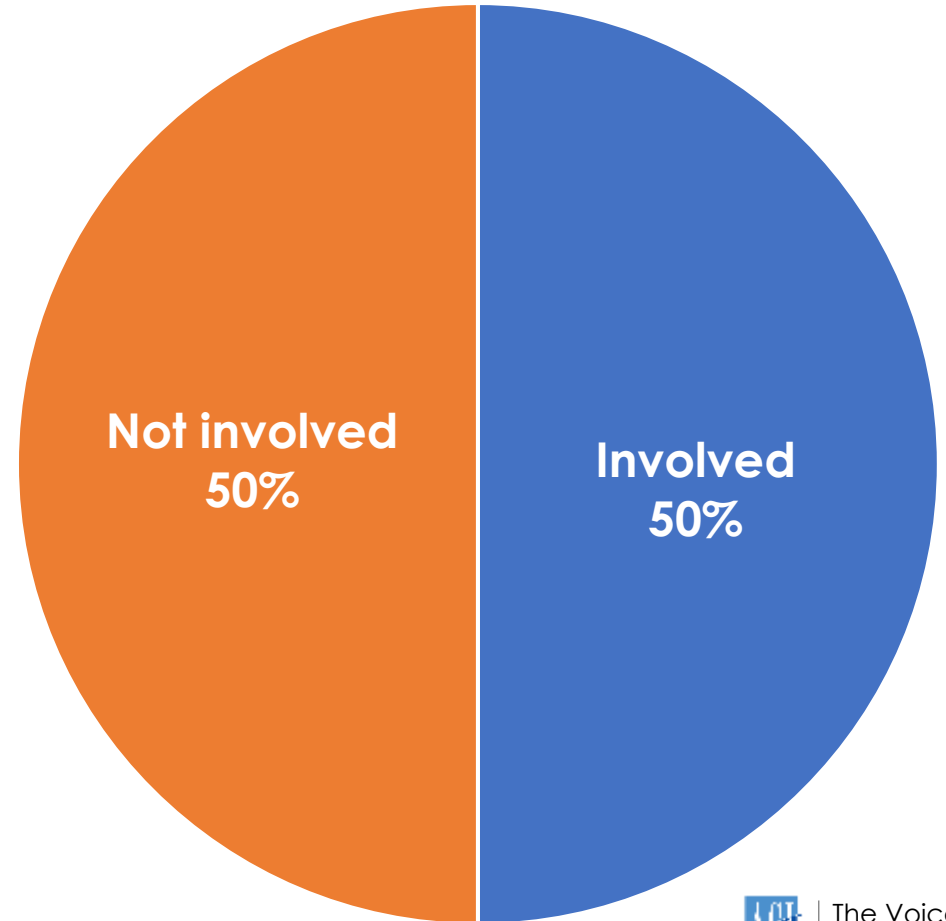
2-8 °C

COVID vaccine logistics planning

Who leads the aviation logistics of vaccine distribution?

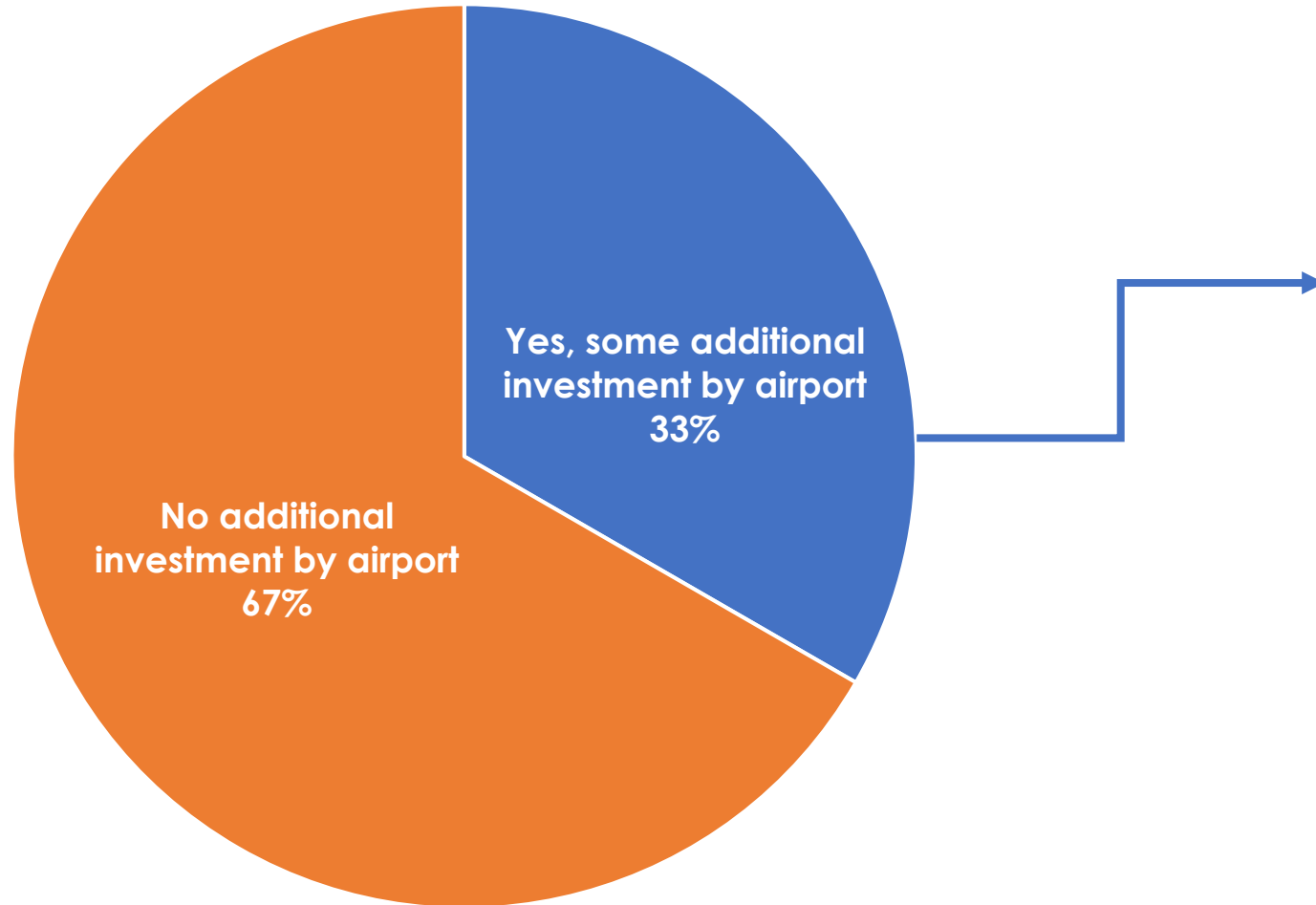


Is airport involved in the vaccine logistics planning?



Additional resources by airports for COVID vaccines logistics

Additional resources invested/deployed by airport*?

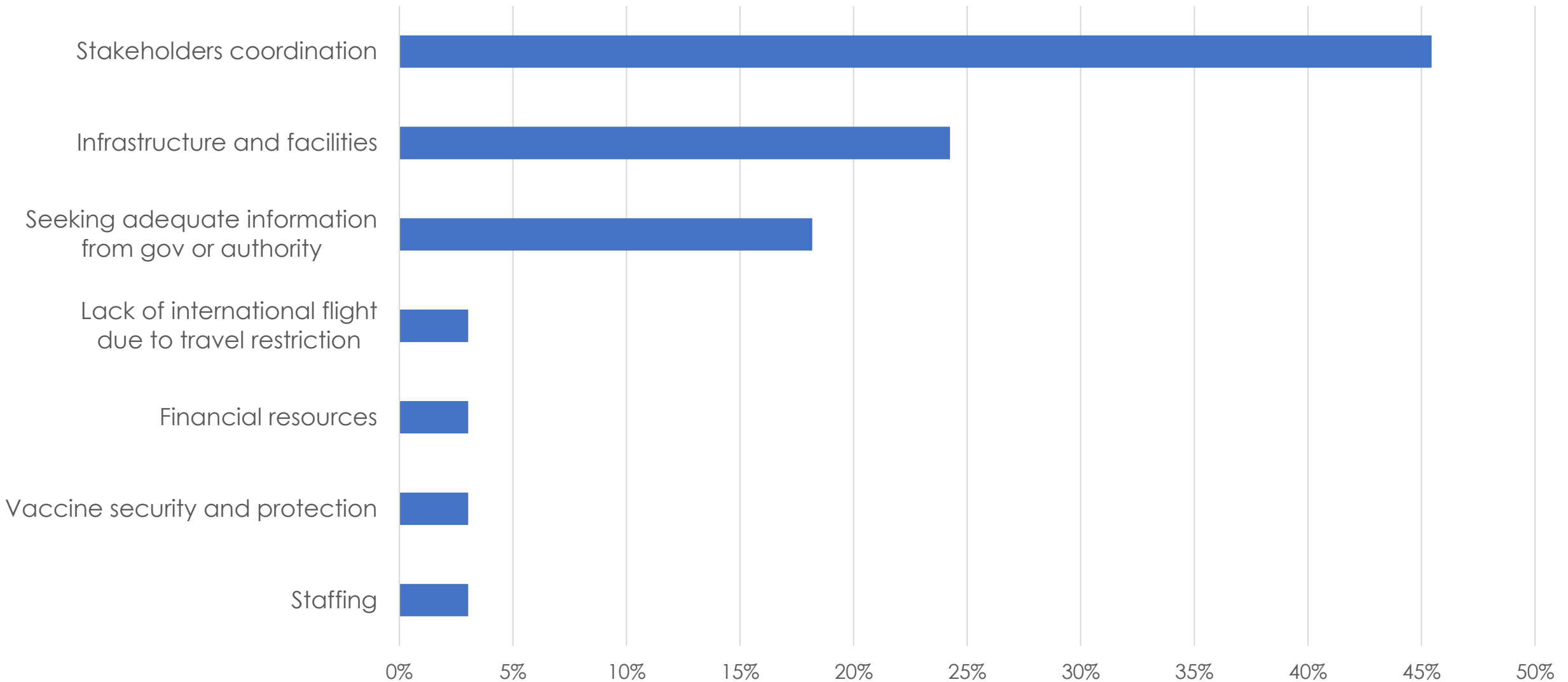


Examples of additional resources

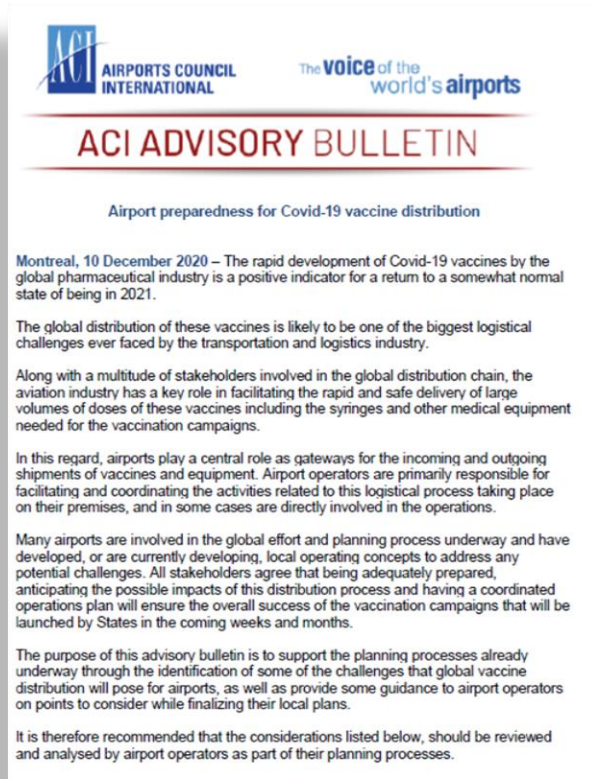
- Temperature-controlled storage
- Cool dollies
- Apron shelters
- Physical space at ramp/cargo building
- Additional staffing
- Security protection

**Only for airport operator. Investment by 3rd parties (e.g. cargo operator or ground handling agents) is not counted*

Top challenges for airports on vaccine logistics



Advisory bulletin to help airports on vaccine distribution



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

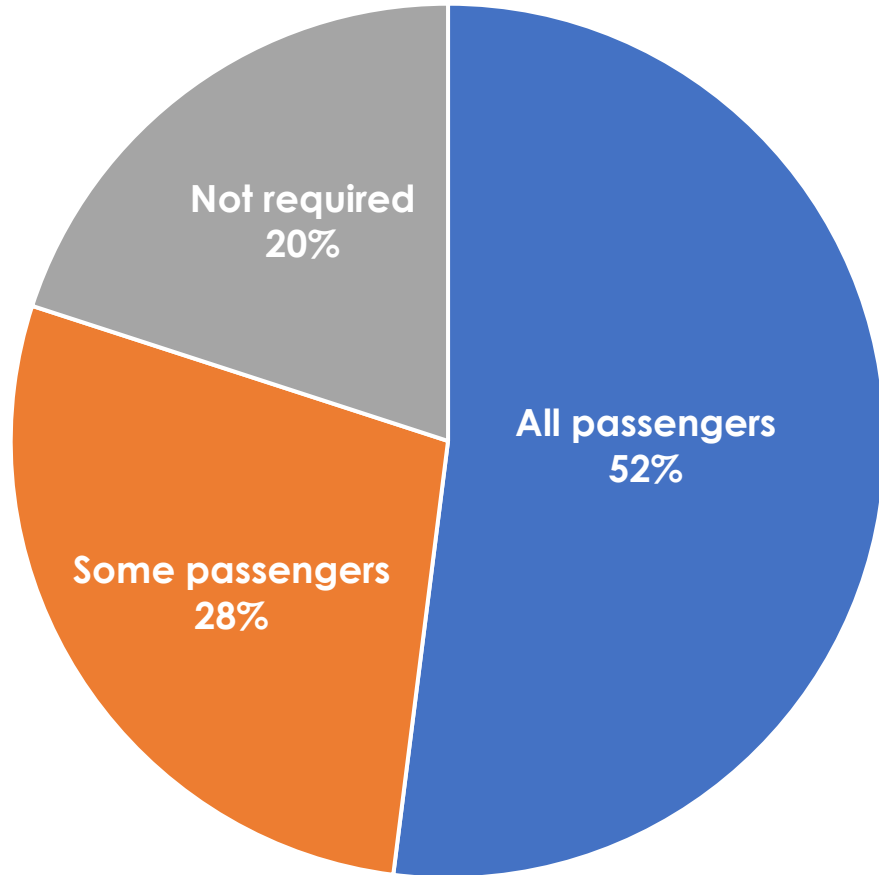


Operational Considerations

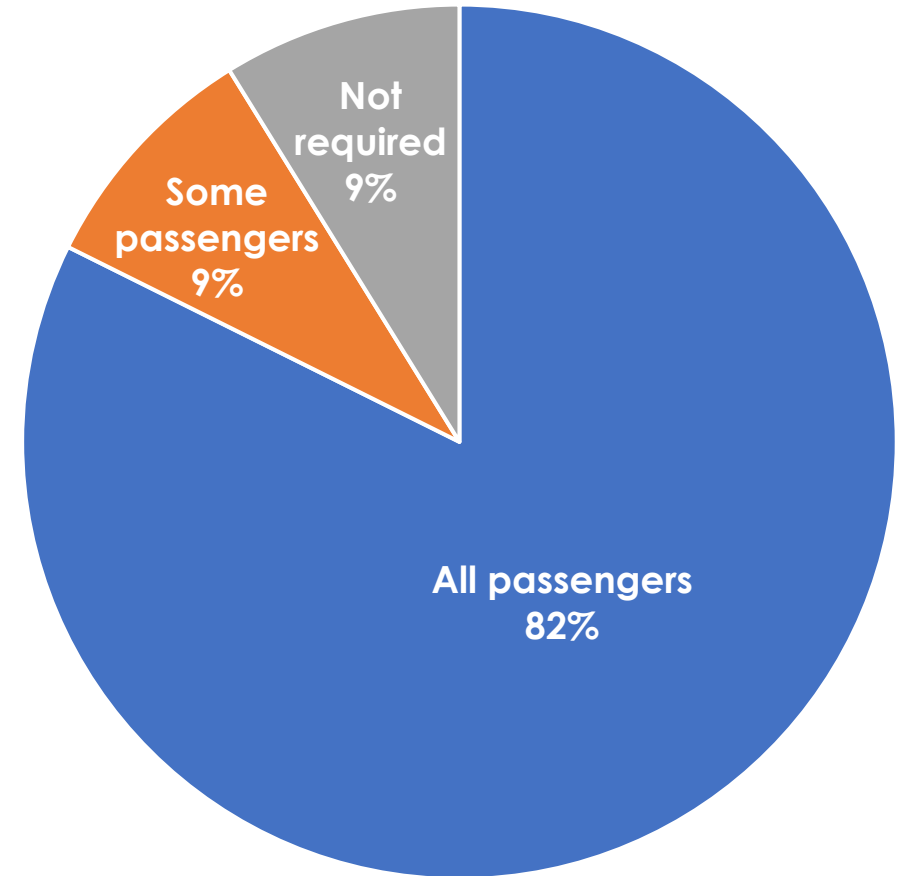
2) COVID testing at airports

More passengers are now required to take **pre-departure** test

Nov 2020

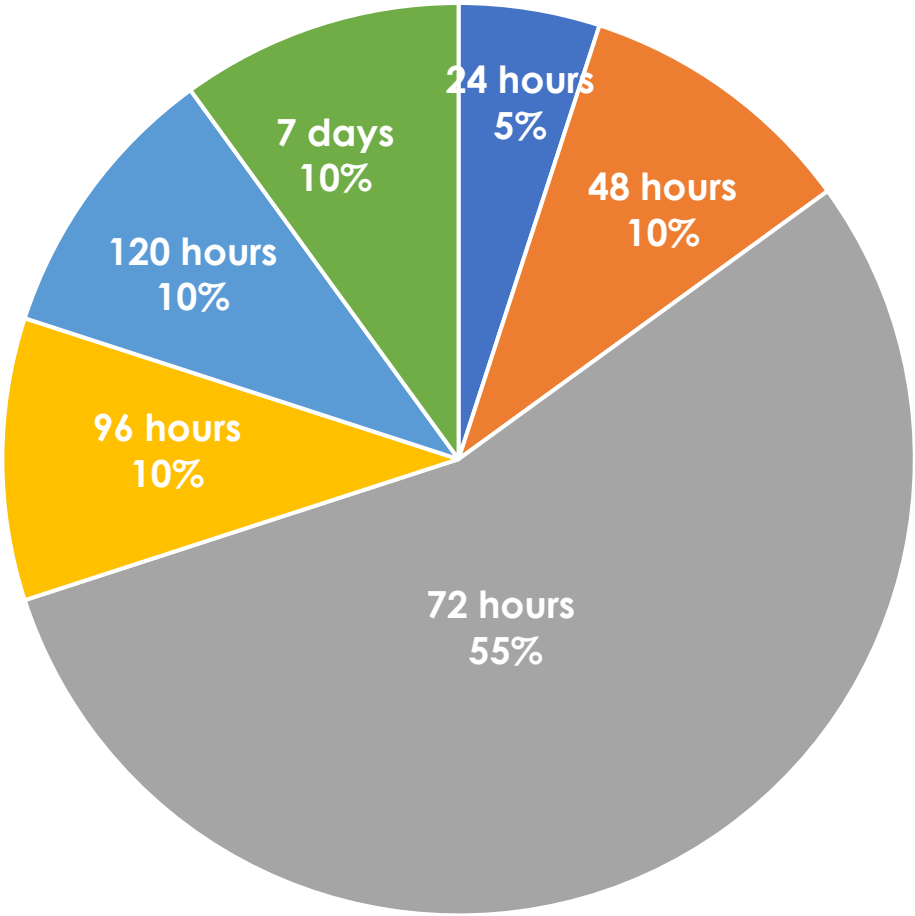


Mar 2021

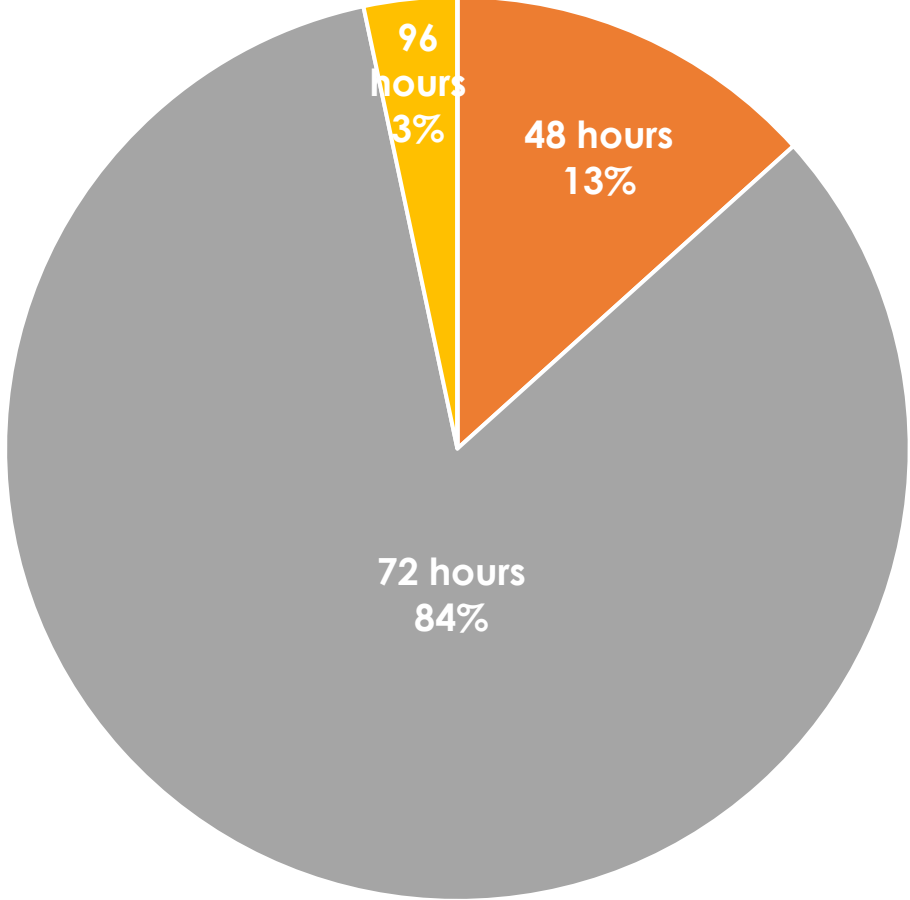


How many hours prior to scheduled departure?

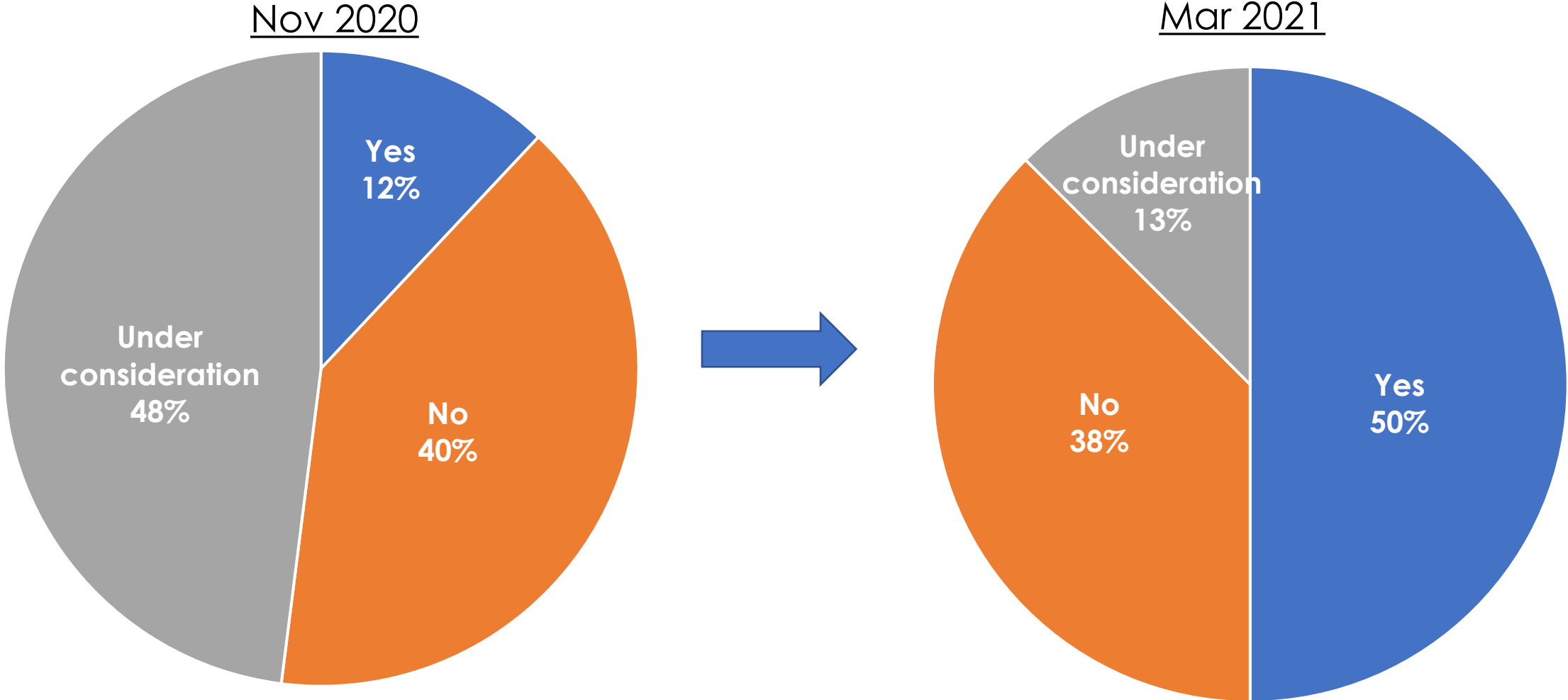
Nov 2020



Mar 2021

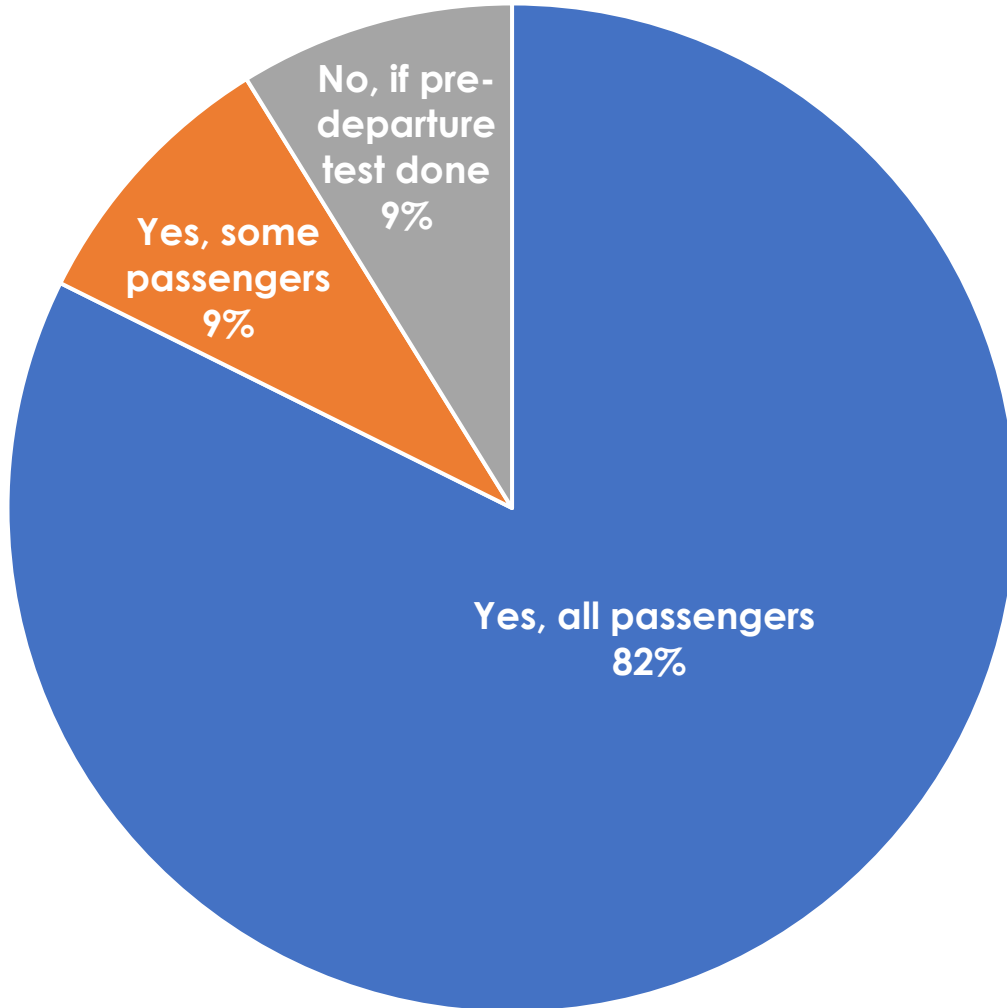


More airports are providing voluntary pre-departure testing

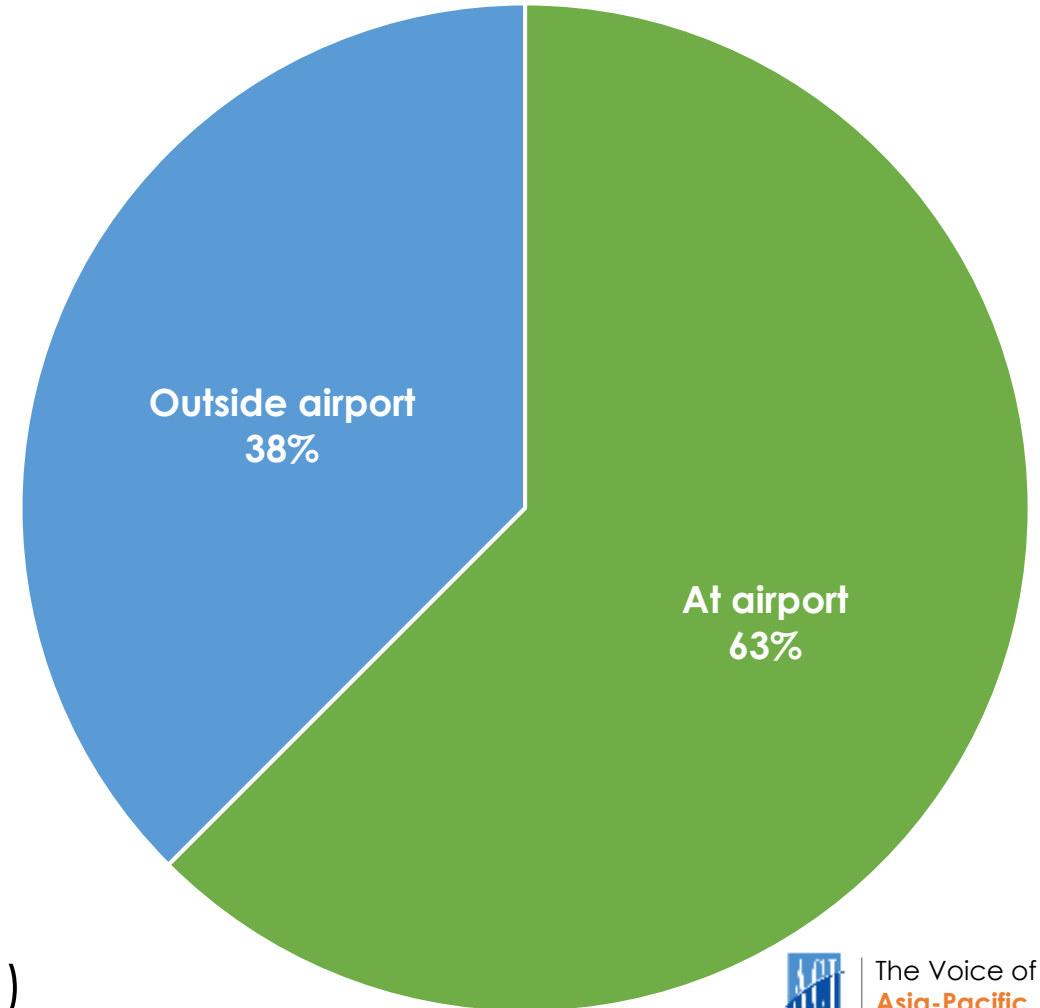


Arrival Test mostly mandatory and at airports

Mandatory testing after arrival?



Where is the test?



(Mar 2021)

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?

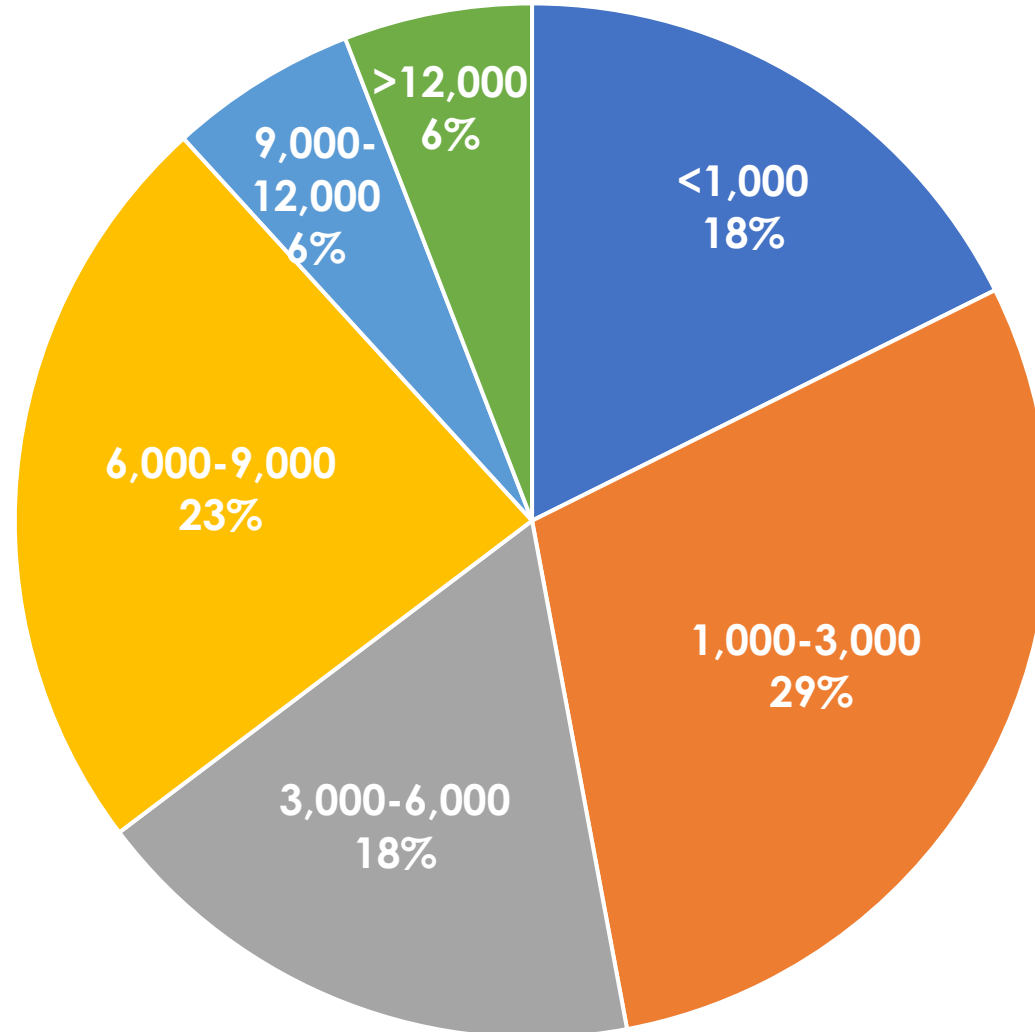
- 2-4 hours (28%)
- 4-6 hours (6%)
- 6-8 hours (17%)
- 8-10 hours (6%)
- >10 hours (43%)

Need to **wait** at airport?

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

Testing capacity of arrival test at airports

What is the maximum testing capacity per day?



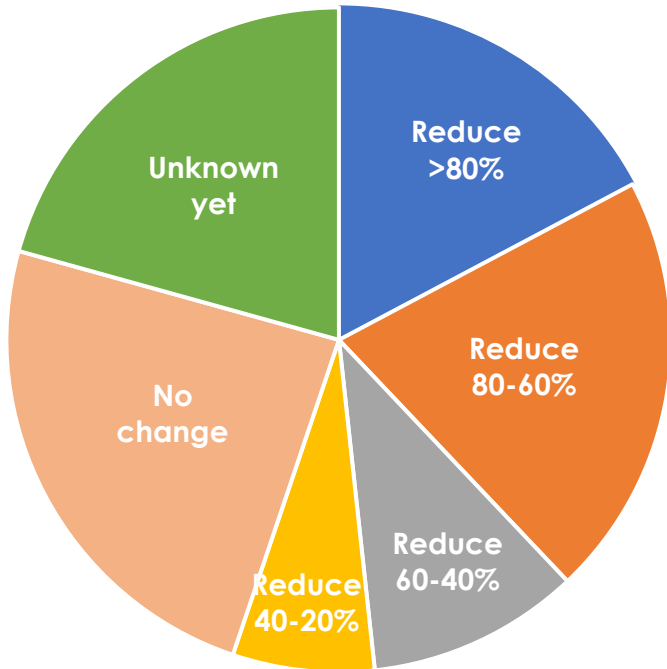


Operational Considerations

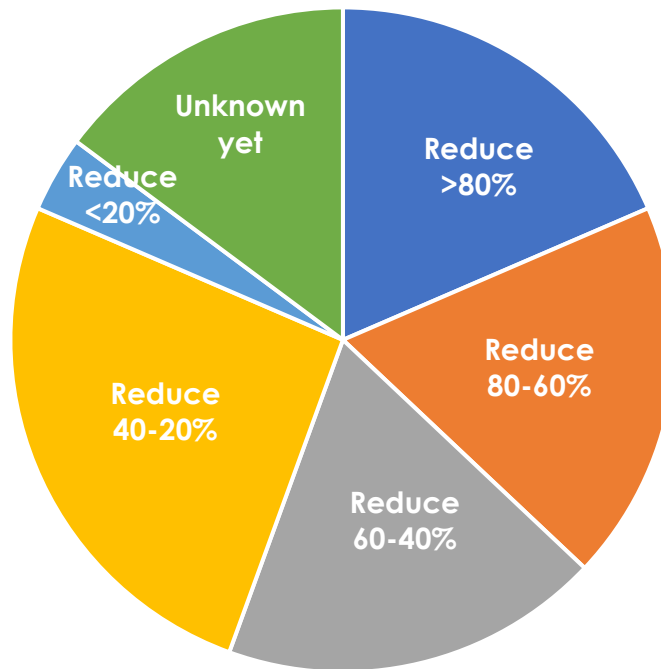
3) Health Measures Impacts on Terminal Operations

Estimated impacts on passenger handling capacity

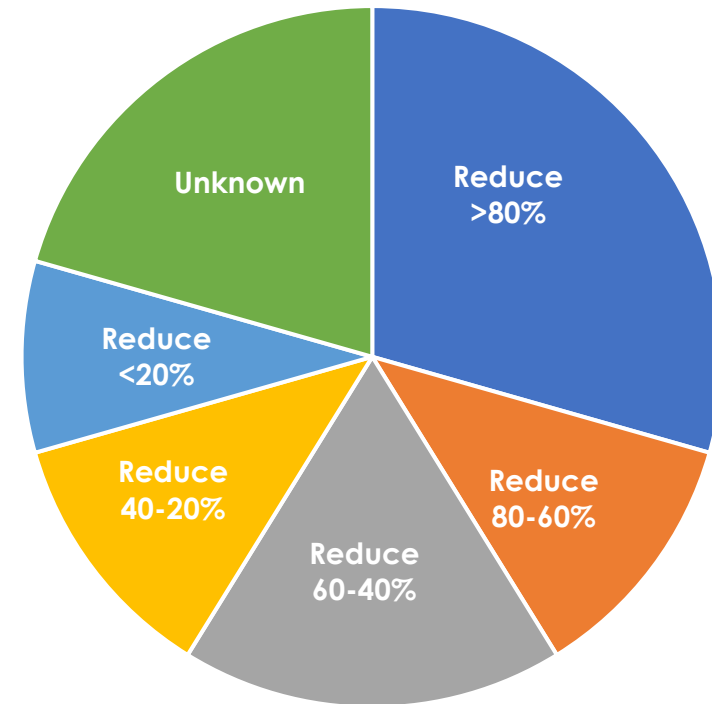
July 2020



October 2020



March 2021



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

DEPARTURES

Check-in



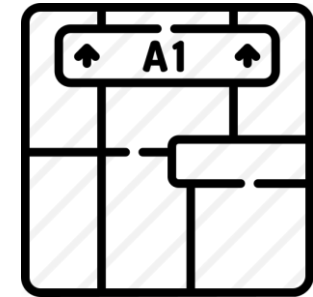
+50% more space

Security



+100% more space

Boarding



+35-50% more space

ARRIVALS

Immigration



+100% more space

Baggage claim



+30-50% more space

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