AIRPORT COVID-19 TESTING PLANNING TOOL

Airport Council International (ACI)

Montréal, Canada

Process optimisation, 3D fast-time simulation

2020

THE NEED:

- Airports worldwide evaluated options to test passengers for COVID-19 on departure and arrival, aiming to ensure safe travel and boost consumer confidence.
- Some countries mandated COVID-19 testing for travellers in order to mitigate the risk of transmission and enhance the safety of travel.
- ACI World tasked EBEA Consulting with the development of a standardised approach to plan COVID-19 testing facilities at airports.

THE APPROACH:

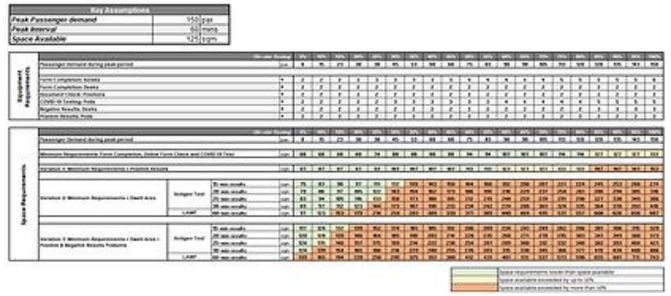
- EBEA developed a planning tool to determine the requirements for right-sizing a COVID-19 testing facility at an airport. It included space and equipment required, based on projected passenger demand.
- Recommendations on passenger segregation were provided for safety and process optimization.
- The assessment tool was validated using fast-time simulation, and data provided by London City Airport, enabling accurate planning and informed decision-making.

THE SOLUTION:

- Initial assessment determined requirements for COVID-19 testing facilities, including footprint and equipment.
- Multiple scenario and strategy testing informed decisions on passenger processes and facility layouts, considering service times, target queue times, and passenger characteristics.
- Model outputs provided insights on required space and infrastructure within the available footprint, facilitating efficient planning and decision-making.

KEY OUTCOMES:

- Standardised approach developed with ACI
- Flexible testing centre planning tool
- Enabled data driven decision making



A great tool to help rapid scenario planning on COVID Testing facilities. We've used it at LCY to validate our initial testing facility setup and given how much change there will be in the coming months, the range of outputs the tool gives us will help plan our next steps as traffic returns.

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ebea CONSULTING