

CARIBBEAN AIRPORT SECURITY & CHECK-IN HALL CAPACITY PLANNING

 LATAM Logistics

 Barcelona, Spain

 Process optimisation, 3D fast-time simulation

 2023



KEY OUTCOMES:

- Validation of expected lane performance
- Identification of minimum space requirements
- Identification of minimum equipment requirements



THE NEED:

- EBEA Consulting was tasked with assessing the expected performance for the future departure process at a Caribbean airport.
- The study focused on identifying the benefits of introducing new automated technology to enable smoother operations in both the check-in area (introduction of SSB technology), and the security process (inclusion of CT Technology).

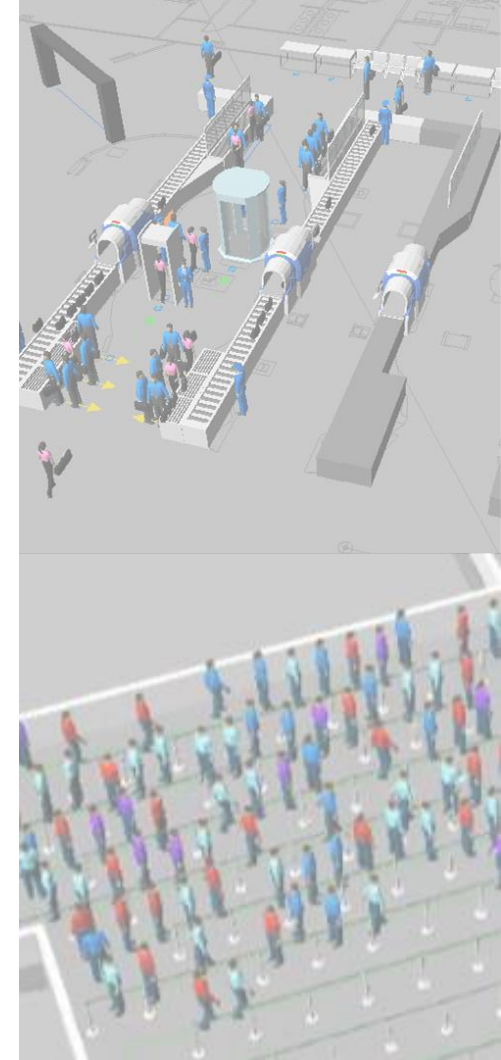
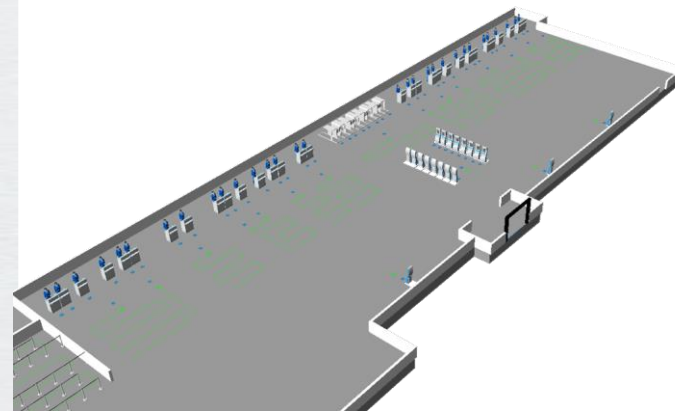
THE APPROACH:

- Development and calibration of existing infrastructure model, and review of proposed airline allocation and available capacity, to measure performance for each airline and product.
- Development of a proposed future check-in and security areas to accommodate the forecasted demand, enabling the identification of bottlenecks and required mitigation strategies to achieve IATA targets at an airline and product level.
- Development of detailed future lane models, aimed at understanding process throughput.
- Development of holistic security area models used to predict the queue length and queue times.



THE SOLUTION:

- Identification of minimum check-in infrastructure requirements (both self-service and conventional) to accommodate the demand and meet IATA standards for each airline.
- Provision of security area footprint and equipment requirements, to accommodate forecasted demand within the queue time targets.



EBEA Consulting is exceptional at understanding customer needs and has extensive knowledge of airports and their operations. They use the latest industry tools and proven methods to deliver practical and easily achievable solutions. Their approach focuses on efficiency and cost-effectiveness, ensuring that they deliver the best possible outcomes for the clients.

José Ignacio Galán
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