

KANSAI AIRPORT TERMINAL 1 FUTURE SECURITY REVIEW

 Kansai International Airport

 Osaka, Japan

 Security Review

 2023



KEY OUTCOMES:

- Validation of proposed designs
- Bottleneck identification and mitigation
- Definition of infrastructure requirements



THE NEED:

- Kansai International Airport tasked EBEA Consulting with optimising the proposed future Terminal 1 security checkpoint to enhance security operations and passenger experience
- The optimisation exercise was driven by an upgrade of Security equipment to C3-CT standard.
- The project focused on determining future levels of service at security and assessing the key interactions with coexisting processes.

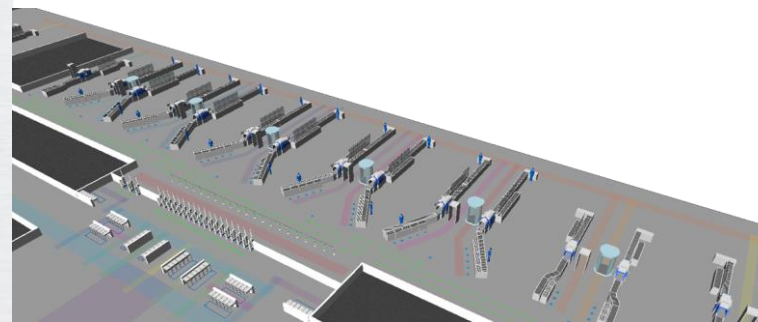
THE APPROACH:

- The project was divided into three main phases:
 1. Independent due-diligence of security equipment providers
 2. Development of detailed future lane 3D models, focusing on lane throughput.
 3. Development of holistic security area 3D models, focusing on queue performance.
- The results and methodology applied and developed by EBEA Consulting were based on industry guidelines and best practices.



THE SOLUTION:

- Recommendation on supplier selection.
- Validation of proposed security lane designs against target throughput under various operational conditions allowing bottleneck identification and mitigation proposal.
- Validation of security area design against target passenger queue time and length.



Kansai Airport is undergoing a major renewal project and is trying to achieve Fast Travel for passengers. With EBEA's advice, a detailed simulation of the new security checkpoints was done, and the necessary resources and layout were clarified. We will be able to welcome passengers at the new security checkpoint in 2025, and we thank EBEA for their suggestions.

Asada Kenichi

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Kansai Airports