

# MELBOURNE AIRPORT T3 STAFF & GOODS SCREENING

 Melbourne Airport, OMEN Security

 Melbourne, Australia

 Process optimisation, 3D fast-time simulation

 2021



## KEY OUTCOMES:

- Validated design through fast-time simulation
- Recommended minimum lane manning
- Defined business targets

## THE NEED:



- To establish a dedicated flight crew screening facility within Terminal 3 (T3) Staff and Goods-in checkpoint, meeting sterile screening standards with CT baggage screening and 100% body scanning rate.
- OMEN Security tasked EBEA Consulting with a due-diligence of the proposed designs.
- The project objectives included maintaining compliance with security screening regulations, while meet service level agreements for crew wait times, and identifying trigger points to expand the area.

## THE APPROACH:

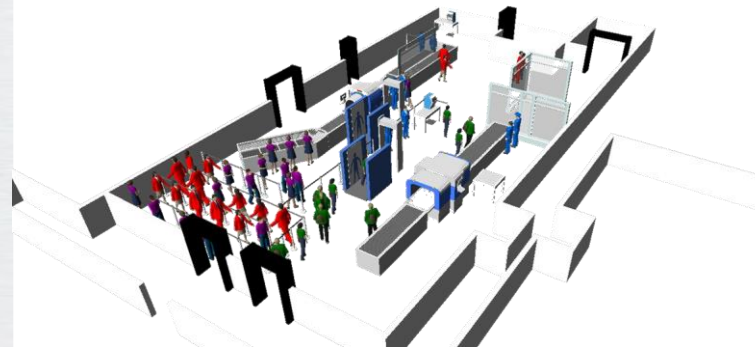


- EBEA Consulting and OMEN Security collaborated to develop fast-time simulation models to conduct a due-diligence review of the design layouts of the T3 Staff and Goods-in checkpoint.
- The assessment focused on validating infrastructure capacity, identifying bottlenecks, and assessing the expected queue times under different demand profiles.
- EBEA Consulting evaluated potential operational improvements, including proposal of new CONOPS and alternative body scanner SOPs / rostering to enhance system efficiency.

## THE SOLUTION:



- Validated proposed checkpoint and lane designs at Melbourne Airport T3 Staff and Goods-in.
- Identified potential bottlenecks and made recommendations for minimum lane manning, balanced body scanner SOPs, tactical flow management, and defined business targets for improved user experience, operational efficiency, compliance, and inter-terminal screening.



*EBEA Consulting has proven to be a highly effective team of experts and a valued collaborative partner for our business. In terms of technical expertise, the modelling and design work they provided was detailed, thorough, and accurate, as later confirmed in the operational environment. Their communication and flexibility have allowed the partnership to flourish despite being on opposite sides of the globe. The team has consistently delivered exceptional outcomes, handled compressed timeframes and adapted to changes without compromising the overall vision.*

**Michael Lawler**  
Principal  
OMEN Security