

TERMINAL 1, 2 & 3 VALET CAR PARK OPERATIONS OPTIMISATION



Sydney Airport



Sydney, Australia



Process optimisation, 3D fast-time simulation



2024



KEY OUTCOMES:

- Reviewed Terminal 1, 2 and 3 valet park performance
- Assessed multiple scenarios for future operations
- Recommended optimal solutions and improvements

THE NEED:



- Sydney Airport planned to optimise operations within their valet car park product in Terminals 1, 2 and 3.
- The client wanted to review the product and assess several scenarios to minimise CAPEX and OPEX alongside safeguarding future demand growth.
- SYD tasked EBEA Consulting with the analysis and validation the valet car park product and support throughout the multiple development options assessment process.

THE APPROACH:

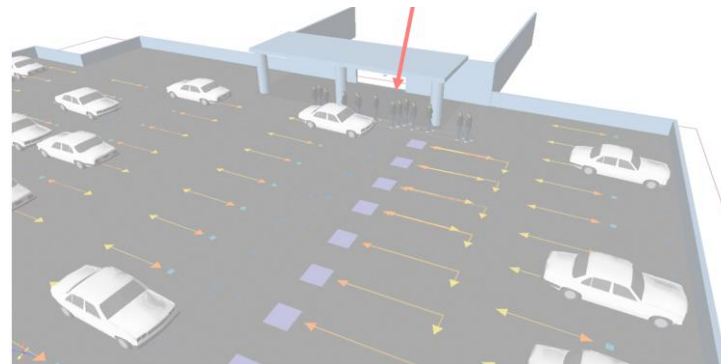


- EBEA gathered necessary data and requirements during the on-site visit and statically reviewed the products' historical performance.
- Based on approved assumptions, a fast-time simulation model was developed to validate multiple infrastructure and staff options, demand scenarios and time band approaches.
- Results were presented in a dedicated report including key insights, an extensive summary of fast-time modelling results, as well as an overview of the methodology and analysed scenarios for future Terminal 1, 2 and 3 valet operations.

THE SOLUTION:



- Evaluated Terminal 1, 2 and 3 valet car park operations performance to determine key product metrics and requirements.
- Reviewed multiple infrastructure and operations scenarios, utilising fast-time simulation.
- Assessed CAPEX and OPEX impact of future options and provided recommendations to maximize product potential.



EBEA's work with Sydney Airport to optimise valet operations was critical in guiding strategic decisions for future expansion. From the outset, their clarity in understanding the project scope and alignment with our expectations was evident. Their structured approach, proactive communication, and strict adherence to timelines ensured a seamless engagement. The final report not only met but exceeded expectations, providing actionable insights backed by thorough research. This partnership demonstrated the impact of working with a team that prioritises both quality and timeliness.

Kenn Langcake

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