

LANDSIDE SYSTEM VEHICLE & PEOPLE FLOW MODELLING



CEMOSA



Lima, Peru



Process optimisation, 3D fast-time simulation



2022



KEY OUTCOMES:

- Validated proposed landside access design
- Identified system bottlenecks
- Ensured compliance with industry standards

THE NEED:



- EBEA / LATAM Logistics team were tasked to conduct a due diligence review of the new landside access network for the new terminal at Jorge Chavez International Airport.
- Analysis focused on evaluating the system's performance over different time horizons, identifying bottlenecks, and value engineering infrastructure configurations.
- The goal was to define the appropriate level of service for roads, curbsides, and passenger facilities through comprehensive analysis and optimisation.

THE APPROACH:

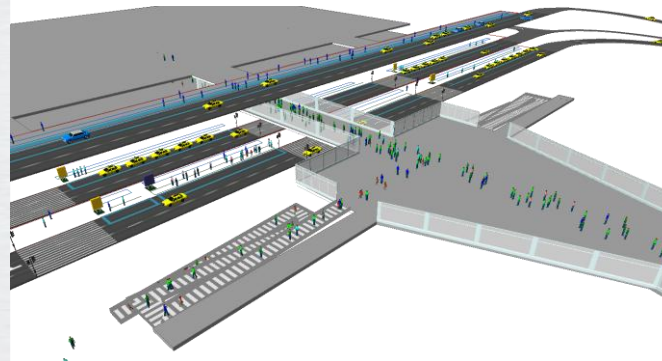


- EBEA Consulting developed a fast-time simulation model of the landside infrastructure to meet the airport's requirements.
- The model was tested with various demand horizons and infrastructure configurations to ensure the design's robustness.
- Outputs of the simulation included road system throughputs, delays caused by interactions between vehicles and passengers, crosswalks and drop-off / pick-up areas.

THE SOLUTION:



- Validated proposed landside access design and assessed vehicle throughputs.
- Identified system bottlenecks and optimised the design.
- Ensured compliance with ACRP Report 40 guidelines for the project.
- Developed a 3D video showcasing road system performance.



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
Senior Consultant and Co-Founder
LATAM Logistics