



## Lima Jorge Chavez International Airport Midfield Terminal Development



**Client Name:** RS&H

**Date Started:** January 2016

**Date Completed:** August 2016

RS&H/Cosapi was retained by Lima Airport Partners (LAP) to develop a concept for a single midfield terminal concept to support the long-term, continued growth and improvement of the Jorge Chavez International Airport. Peru's capital city airport welcomed 18.8 million passengers in 2016 and recorded double-digit growth of 10% year-on-year.

TransSolutions was retained by RS&H/Cosapi to assess the feasibility and validate the design of the midfield terminal in order to meet the projected future demand. The main areas studied were the:

- Airfield capacity to accommodate the projected flight demands for a midfield terminal
- Midfield terminal passenger processing facilities and operational spaces to accommodate the projected passenger demands

TransSolutions' first task was to provide gating analyses to determine the required number of international, domestic, and swing-contact and remote stands to accommodate the 20-year forecast demand.

TransSolutions updated a discrete simulation model of the airfield to assess capacity for the projected operational demands of the midfield terminal with a proposed new runway. Our model evaluated the:

- Hourly runway capacity
- Effects of the cross-field taxiway vs. runway crossing, primarily for towing to/from hardstands
- Number and types of runway exits and taxiways to accommodate operational demands

A detailed discrete simulation model of the midfield terminal was developed in order to assess and validate the proposed design. This study encompassed:

- All passenger processing areas
  - Check-in counters and kiosks
  - Boarding pass and security control
  - Emigration and immigration control
  - Customs control
- Waiting halls – arrivals and departures
- Bag claim areas
- Departure holdrooms
- Vertical circulation

The midfield terminal studies demonstrated the operational and financial viability of the midfield terminal and supported the selection of the RS&H/Cosapi Team's midfield terminal for implementation by LAP.

In July 2017, an amendment was approved that will provide for the expansion of the airport. Scheduled to begin in 2018, LAP's expansion program will require an investment of approximately US\$1.5B. Development plans call for a second runway to be built first, as well as a new state-of-the-art passenger terminal and other infrastructure to meet increasing traffic and to further enhance the customer experience at Lima Airport.