

Can California's Busiest Airport Also Become Its Smartest?

Before its digital transformation, Los Angeles World Airports manually tracked pedestrian, traffic and passenger flows at LAX. Five years later, in collaboration with Siemens, LAWA has a real-time display dashboard to provide domain awareness across the entire airport. With this actionable intelligence, LAWA can provide elite travel experiences to the passengers of Los Angeles.

LAX

LAWA manages 1,910 takeoffs and landings per day.

84.6 M
Passenger Traffic
+4.5% YOY

2.4 M
Tons of Cargo Traffic
+8.2% YOY

\$126.6 B
Annual business revenues

SOURCES: Airports Council International – North America
Los Angeles Economic Development Corporation

“Airports, like the airlines, are competing for your business.

Strengthening brand loyalty by providing an exceptional experience is at the heart of the airport's business strategy. The passenger's journey is a driving factor for LAWA.”

MICHAEL DIETSCH, ACCOUNT EXECUTIVE FOR LAWA, SIEMENS

Digitalization connects LAWA to its systems and improves management of operations to create a seamless journey that ensures flyers become frequent ones.



Landside

The landside dashboard receives important data from applications like Waze, rideshares and parking systems, providing Operations with the information to help direct long-term parkers to the available garages and ensure FlyAway buses aren't stuck idling at the curb of terminals.

Terminal

From escalators and baggage handling systems to bathroom lighting and air conditioning, LAWA manages roughly 1,200 assets through its dashboards, continuously monitoring what's operational and what will require maintenance next.



Airside

The airside pulls in observations from the Aviation Weather Center to keep an eye on hourly weather patterns (wind speed, visibility, precipitation, etc.) or rapidly changing conditions. Most importantly, the dashboard receives real-time updates from Airport Safety & Operations Compliance System (ASOCS), which manages and reports airport incidents and activities (like runway and taxiway closures).



Not only does data improve customer comfort, but it also offers **safety and security**. LAWA needed to improve situational awareness, and Siemens provided the solution.

Next Phase plans include integration with MAXIMO, LAWA's Computerized Maintenance Management System (CMMS), allowing for improved response based on impact, as well as deeper data-driven decision-making. Planned airside developments will incorporate flight information from approaching aircraft, including ground location, flight number and gate destination.



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