

2025

ACI-NA & ACI World Annual General Assembly, Conference and Exhibition



How to Build It: Smart Airport Infrastructure

Darryl Daniel
*Chief Technology
Officer*
Houston Airports

Eddie Clayson
*Director of Airport
Maintenance*
Salt Lake City
International
Airport

Norman Fekrat
Managing Partner
Imagine Wireless

Marta Lee
*Associate Principal
and Digital Aviation
Leader of the
Americas*
ARUP

Nelson Oliviera
*Director, Airport
Planning*
Greater Toronto
Airports Authority

Robert Ramsey
*Chief Development
Officer*
Metropolitan
Nashville Airport
Authority

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How to Build It: Smart Airport Infrastructure

Robert Ramsey

Chief Development Officer

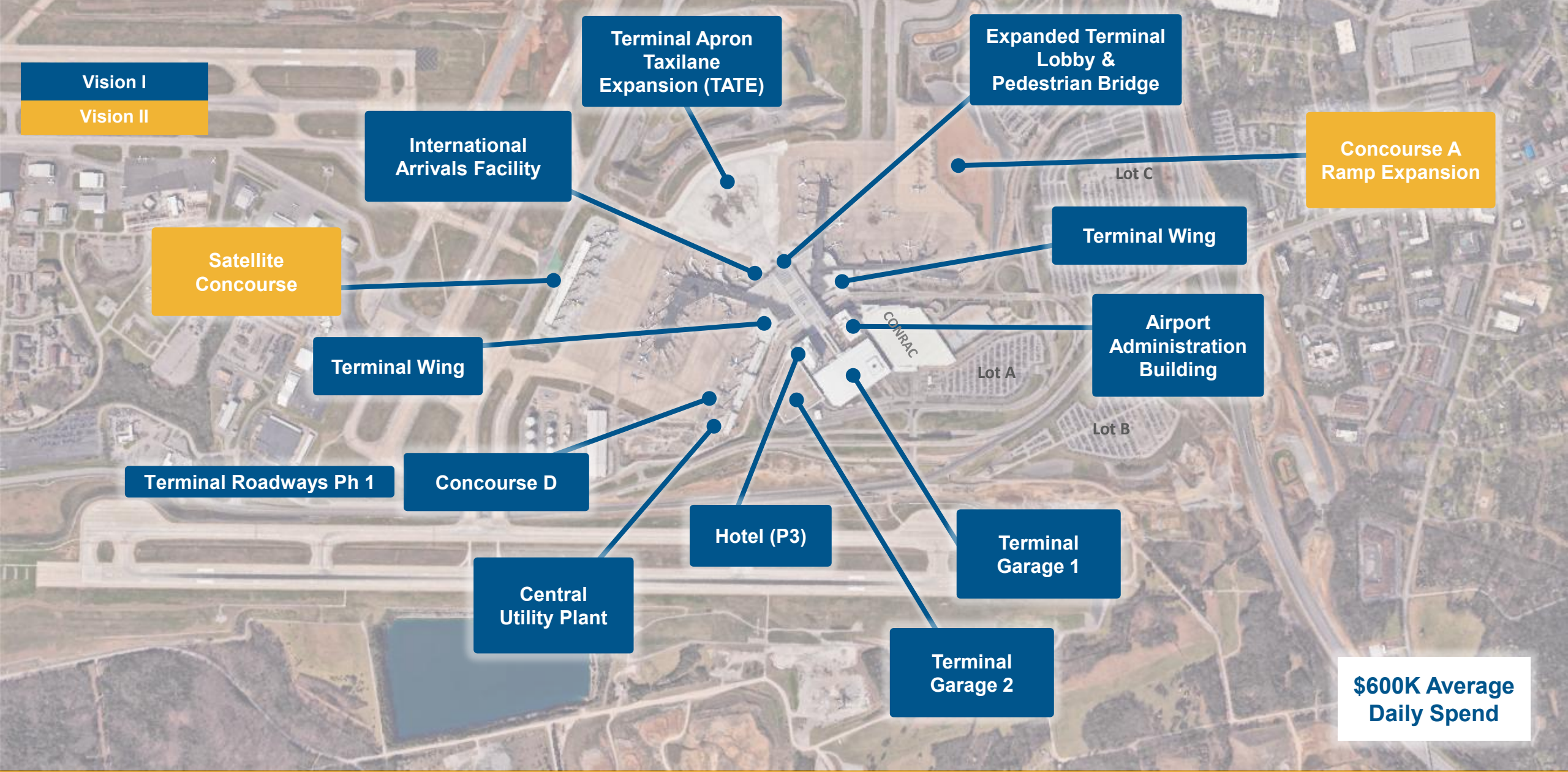
Metropolitan Nashville Airport Authority



Major Capital Programs at BNA

October 26, 2025

BNA Vision I & II



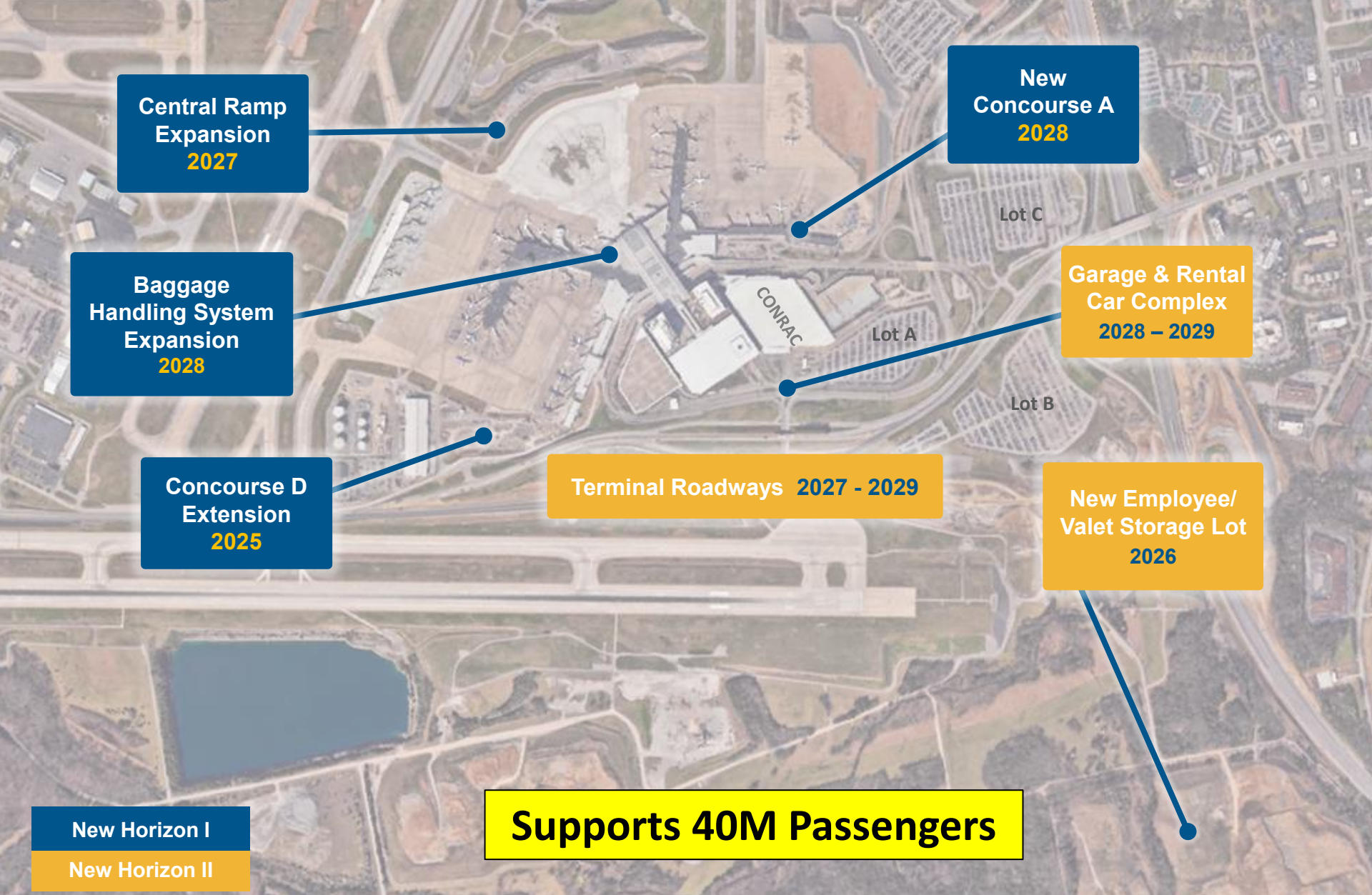
Vision I & II: 2017 – 2024, \$1.534B (\$600K/day)

\$600K Average Daily Spend

New Horizon I & II and Terminal II

New Horizon Openings

- ✓ Concourse D Extension
 - July 2, 2025
- Central Ramp
 - September 30, 2027
- Concourse A
 - July 11, 2028
- Garage (1,500 spaces)
 - August 28, 2028
- Baggage Handling System
 - October 7, 2028
- CONRAC & Remaining Garage spaces
 - August 31, 2029
- Terminal Roadways
 - July 31, 2027 (public)
 - August 31, 2029 (project complete)



New Horizon I & II: 2022 – 2029, \$2.96B (\$1.2M/day)

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How to Build It: Smart Airport Infrastructure

Marta Lee

Associate Principal and Digital Aviation Leader of the Americas

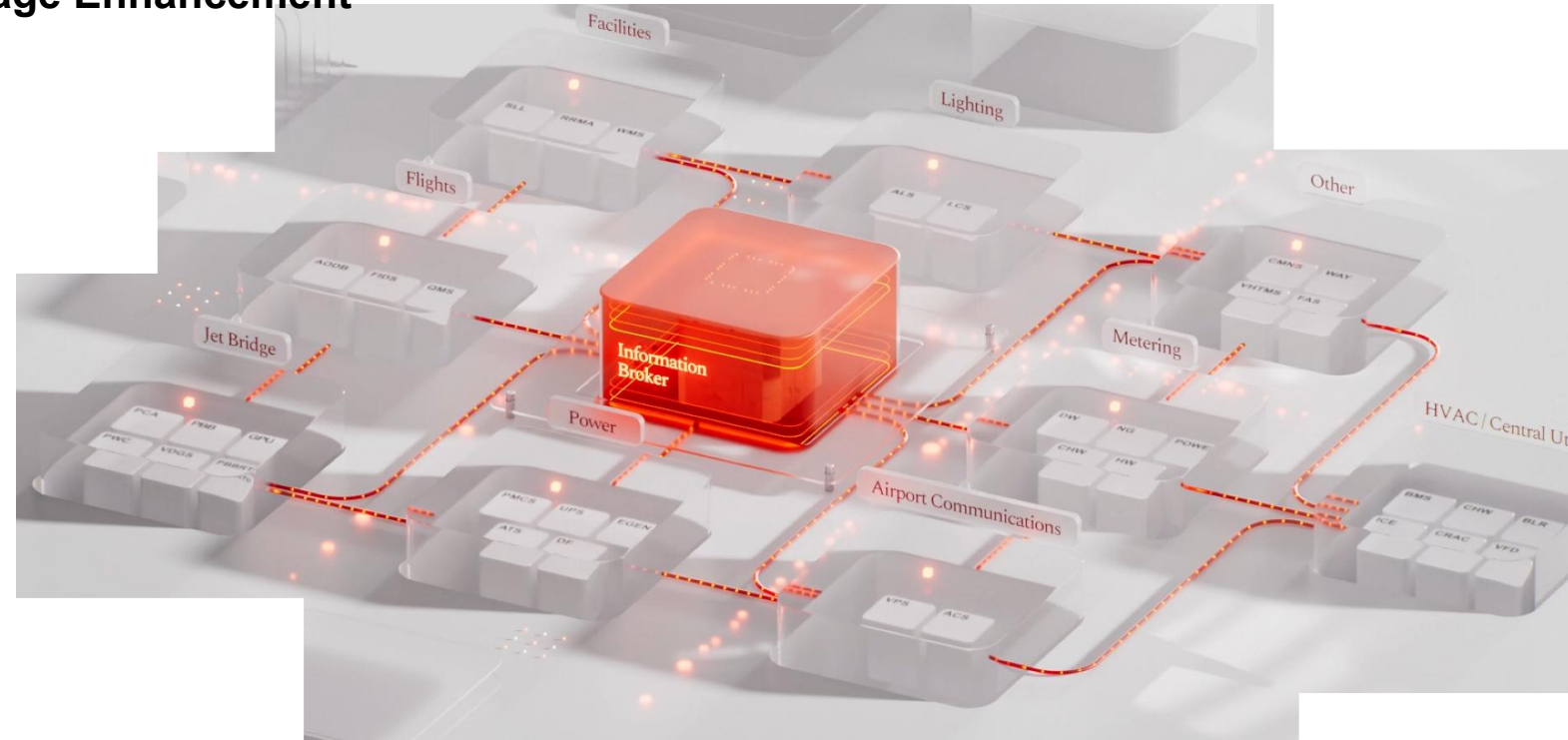
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Data Driven Operations

USE CASE – Remote Terminal Unit (RTU) Usage Enhancement

Attributes of Information Broker

- Integration
- Monitoring
- Normalization
- Alarming
- Visualization
- Business Intelligence
- Command and Supervisory Control
- Historical data collection and analysis
- Fault Detection and Diagnostics
- Report execution and scheduling



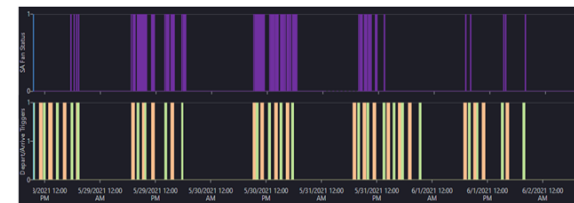
Jet Bridge RTU – Flight Information Interface Workflow



HVAC Run Schedule

Depart./ Arrival Schedule

Before workflow: RTU running irrespective of departure/arrival schedules



HVAC Run Schedule

Depart./ Arrival Schedule

After workflow: RTU operations aligned with demand

Decreasing equipment usage by 87%

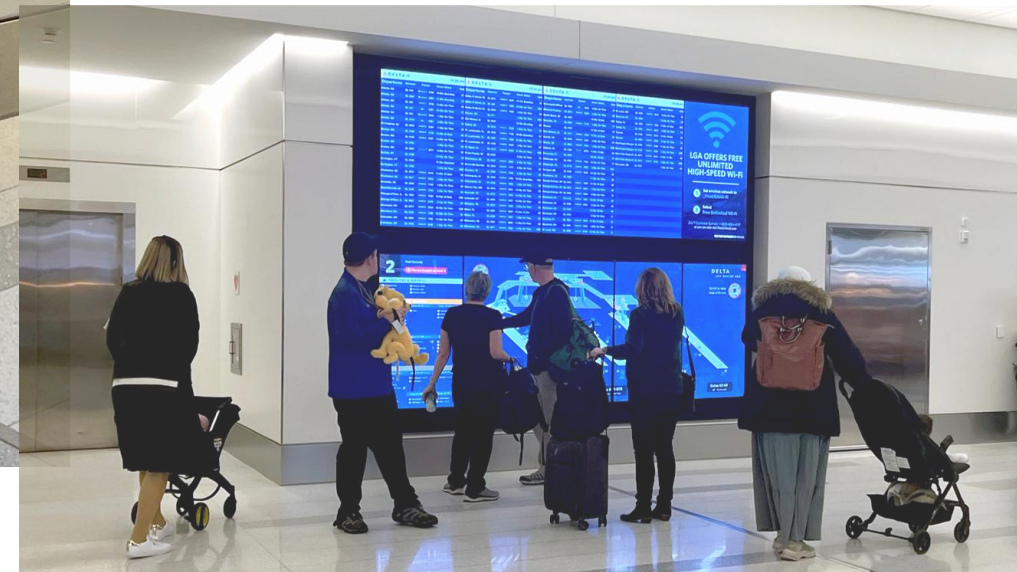
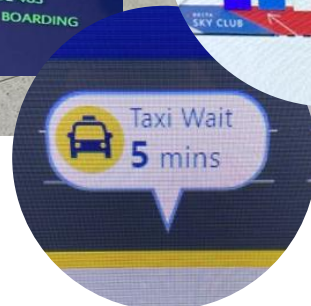
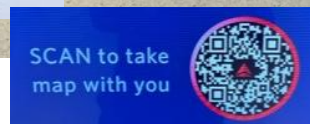
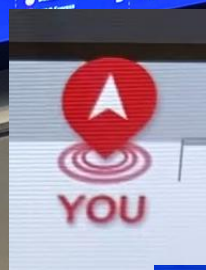
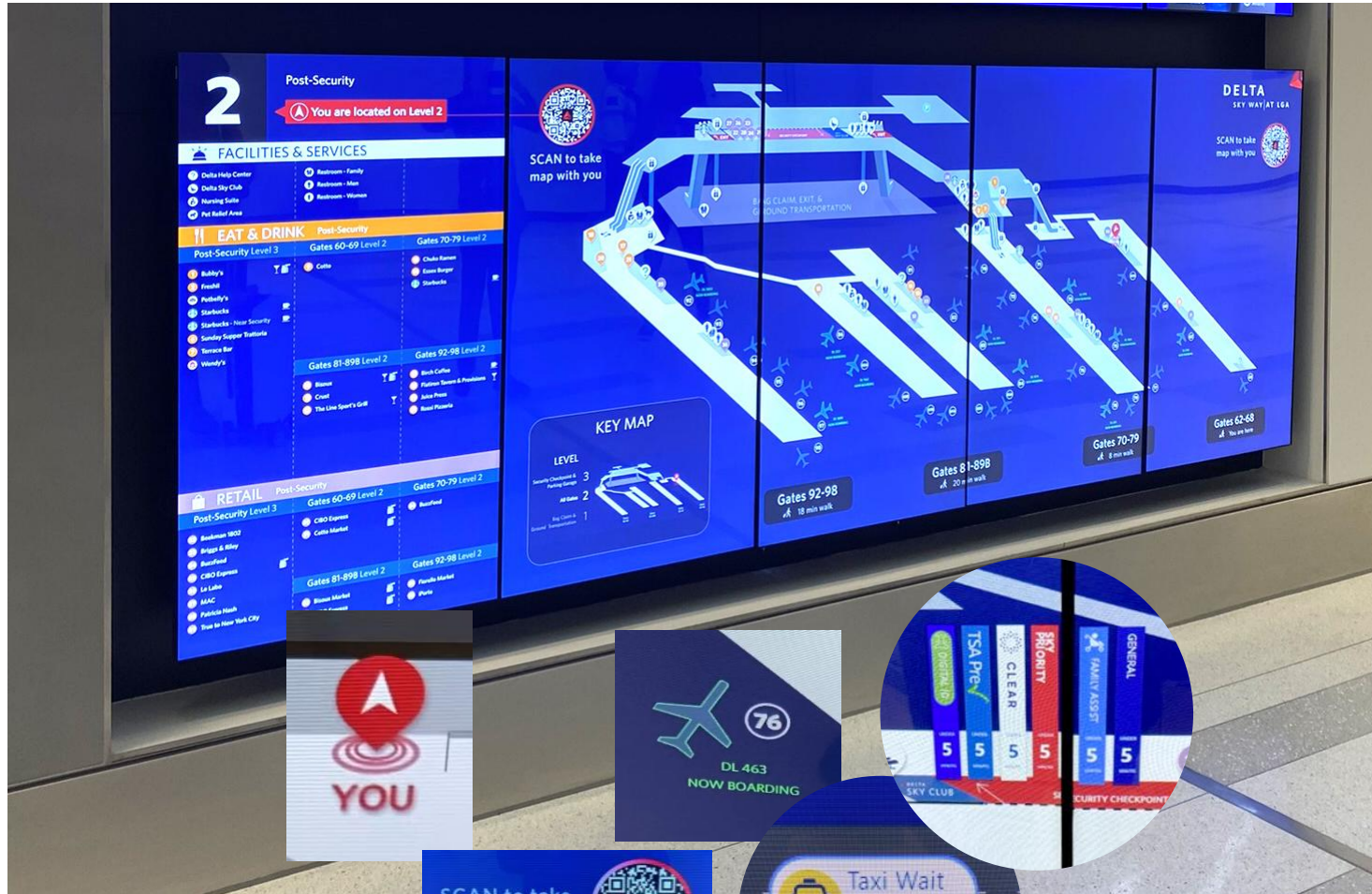
Data Driven Customer Experience

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USE CASE – Personalized Experience

Real time data

- Security wait times for five separate lines
- Bathroom busyness
- Now boarding animations
- Next mile travel wait times including Taxi and MTA bus
- Concessions are represented when open
- QR “take it with you” includes map and more in-depth concession information
- Custom visual message notification capabilities



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October 25 - 28, 2025

Toronto, ON



AIRPORTS COUNCIL
INTERNATIONAL
NORTH AMERICA | WORLD

2025 Host Airport

Toronto Pearson 

2025 Supporting Host Airport

BILLY
BISHOP 
TORONTO CITY AIRPORT