



Reshaping the travel experience

AT STANTEC, WE'RE TAKING AIRPORTS TO THE NEXT LEVEL.

From roadway to runway and full terminal design to retail tenant, our deep understanding of airport operations drives us to create airport destinations that are more efficient, memorable, and safer than ever before.

With more than 300 designers focused on airport design, we are one of the foremost integrated airport design firms. Having been responsible for more than 50 airport terminal projects around the world over the past 20 years, we have a thorough understanding of the often competing requirements of passengers, airlines, airport authorities, tenants, and the community. We see our role as reconciling these objectives in integrated and coherent designs that blend engineering and architecture, optimize operational and commercial opportunities, and provide passengers with the best possible airport experience.

By taking design to new heights, we're helping airports become more enjoyable, profitable, and efficient.



LaGuardia Airport Central Terminal Building Replacement
Queens, New York



Autonomous cargo and logistics at
London Heathrow Airport
London, England

STANTEC AT A GLANCE

400

Locations worldwide

25,000

Employees

68

Years providing services

#13

Top 25 Design Firms in Transportation - Airports
ENR, July 2021

1 in 3

passengers in North America will go through an
airport where we have completed a major project.



ACCELERATING AUTONOMY IN AIRPORTS

Airports carry a lot of weight, both literally and figuratively. There's an expectation that they're safe, that they're not just a place people or goods pass through, but a destination themselves.

Introducing autonomous vehicles (AVs) into the airport environment can be a tremendously successful endeavor with benefits to the airport client, workers, and passengers. From moving people and baggage to cleaning inside and outside the terminal, AVs can provide a wide range of services in an and around an airport, all contributing to a safer and more efficient experience for everyone involved.

We're pairing our successful delivery of airport projects with our passion for implementing autonomy in our environments—that's why we're so interested in bringing AV technology to our airports. With promised benefits of safety, efficiency, and accessibility, the applications at airports are immense.

Our AV consulting arm, Stantec GenerationAV®, is advancing automated mobility systems to create a safer, cleaner, more equitable world for future generations. Together with our airport planners and engineers, we can help airport clients determine the best use cases and create and implement a plan to deploy AVs safely and smartly, for the good of the airport community.

STANTEC GENERATIONAV®

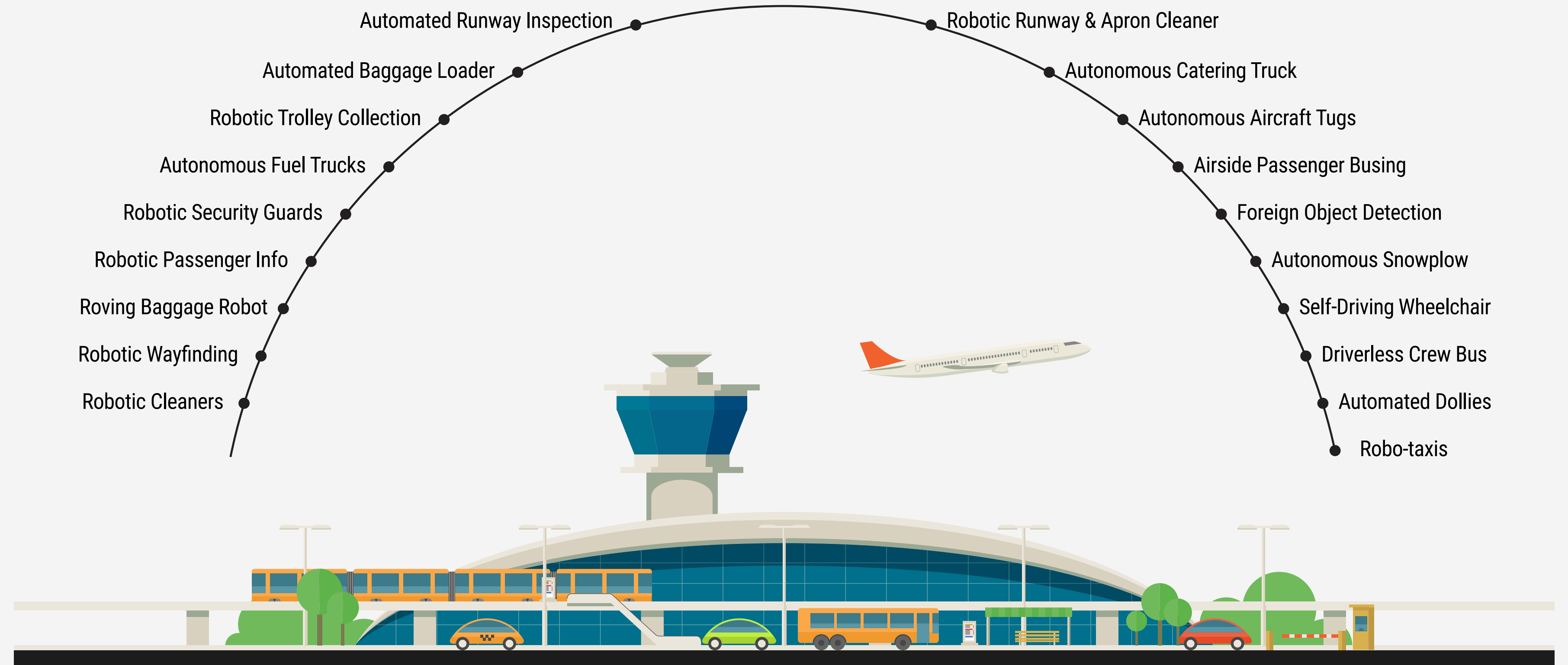
There are many paths on the road to automation, and GenerationAV aims to safely accelerate that journey. We're developing and deploying customizable tools and technology to advance automated mobility systems for any use case (along with related planning, assessment, and consulting products). We've worked on automated mobility since before most people knew it even existed.

That experience gives us a deep perspective on what lies ahead for the industry, and what that future means for clients and communities everywhere. We bring together our autonomy experts with best-in-class industry partners to help airport clients deploy AVs safely, for the good of our communities and passengers.

GenerationAV was formed in 2020 by global consulting firm Stantec, to accelerate the adoption of AVs. With a goal of creating a safer, cleaner, more equitable world, we guide clients through the safe adoption and operation of AVs.

We are building an automated future through focused solutions built to educate, engage, and advance mobility.

AVS IN AIRPORTS



What can autonomy in an airport look like? There's a lot of use cases. From luggage, equipment, and people moving to indoor and outdoor security, deploying AVs in and around airports helps reallocate resources, ease the passenger experience, and provide added security.

FEATURED PROJECT

OTAY-TIJUANA CROSS BORDER XPRESS (CBX)

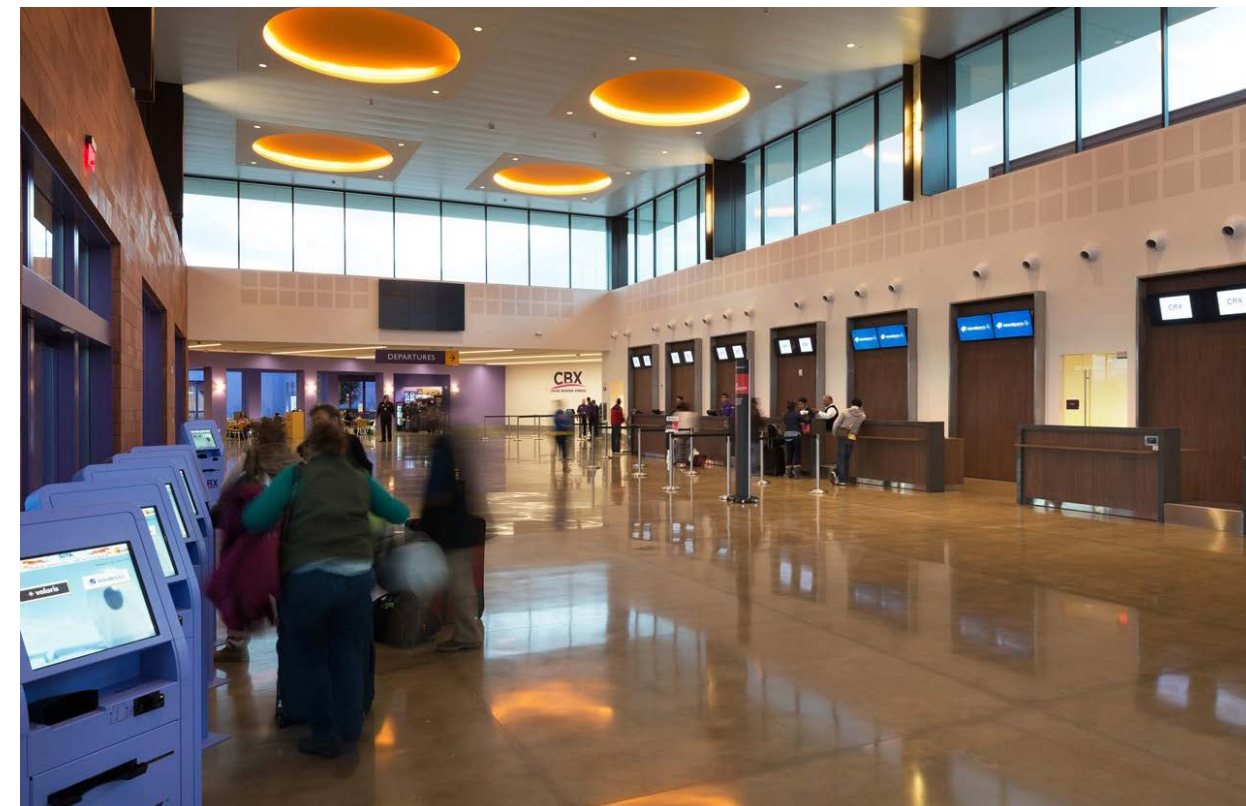
San Diego, California

“Your team has not only engineered a physical bridge; you have designed a connection across cultures.” This testimonial from US Customs & Border Protection (USCBP), the primary tenant in this project, appropriately sums up this unique project. The simplest way to describe the CBX is “an airport without any aircraft attached that straddles the US-Mexican border.” The CBX was designed to alleviate congestion at San Diego International Airport, and now it only takes 390 feet to arrive at the Tijuana International Airport (TIJ) from San Diego.

This visionary, privately-funded project, which received wide support on both sides of the border, is the only one of its kind in the world. It involved agreements between the US and Mexican governments to create a skybridge over the border, and the first new USCBP facility to be built since the signing of the North American Free Trade Agreement.

The CBX transforms travel between US and Mexico by facilitating an easier border crossing for millions of passengers travelling for leisure and business, while significantly reducing the carbon intensity of travel. It is also expected to be a major catalyst for economic growth on both sides of the border.

More than two million people use land-crossings each year to cross the US-Mexican border for flights departing from TIJ. The time it takes to drive across the border is unpredictable, and the traffic and resultant air pollution is considerable. The CBX takes advantage of TIJ’s close proximity to the border with an 86,000-square-foot building containing departures and arrivals functions, plus a 390-foot pedestrian skybridge over the border.



FEATURED PROJECT

SKY HARBOR INTERNATIONAL AIRPORT AIRSIDE AND LANDSIDE PROJECTS

Phoenix, Arizona

An influx of visitors and new residents to Phoenix sparked the need for upgrades across Phoenix Sky Harbor International Airport (PHX). With more than 100,000 passengers flowing through the airport each day, keeping people and aircraft moving smoothly and safely is the mission of America's Friendliest Airport®. Having completed nearly 100 projects over 30+ years at PHX, our western US aviation team was an ideal fit to support this modernization program for Terminal 3, as well as the demolition of the Terminal 2 concourse.

Through a design-build contract, we contributed to all three phases of the Terminal 3 Modernization program. Our terminal-connected work included grading, drainage, utility, and hydrant fueling design. We also supported the airside infrastructure by providing design to remove and reconstruct the existing concourse apron. The program improves baggage claim, check-in, security areas, the North and South Concourses, overall aesthetics, shopping, and dining.

We were also the lead design firm under a separate, concurrent Construction Manager @ Risk project, which reconstructed the South Transition Apron and Taxiway D segment adjacent to Terminal 3. With safety, efficiency, and modernization in mind, we helped PHX realize those goals by improving service roads and taxiway centerline lighting, as well as utility and pavement marking improvements. This project also included reconstructing 25,000 square-yards of aircraft apron and 100,000 square-feet of Taxiway D south of Terminal 3's South Concourse.

Our local Phoenix team also worked on the Terminal 2 Concourse Demolition and Apron Reconstruction. This project decommissioned the Terminal 2 concourse and garage and reconstructed the adjacent apron. We also provided an architectural historian, lighting, and structural services for the relocation of Paul Coze's mural, *The Phoenix*, a critical piece in Phoenix's public art history.



FEATURED PROJECT

FORD LAUNCHPAD FOR INNOVATIVE TECHNOLOGIES AND ENTREPRENEURSHIP (FLITE)

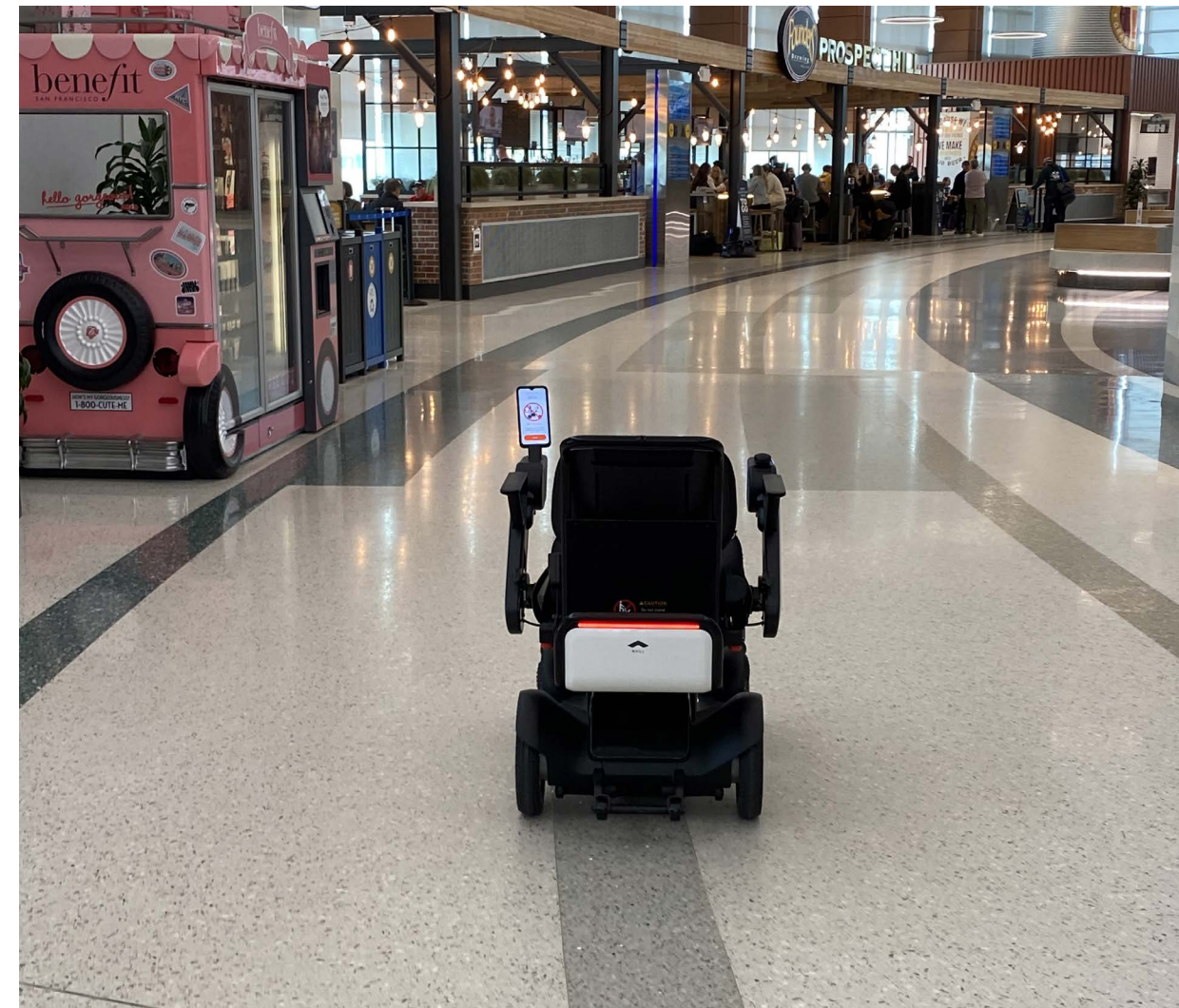
Grand Rapids, Michigan

AV technology at airports is taking off. In a first-of-its-kind program, we're working with the Gerald R. Ford International Airport (GRR) and other innovation-driven companies and start-ups to study, design, develop, and test complex airport-oriented mobility solutions. The goal? Improving the way people get around in airports.

We're participating as advisors and sponsors in the ongoing FLITE program, testing and integrating innovative AV technology in a live, working airport environment. The GRR Airport Innovation Lab will include different solutions in each phase of the program.

As AV advisors, our Stantec GenerationAV team is providing our experience in AV planning and deployment, including safety verification. We've also established an advisory committee of airport subject matter experts from around the US to provide guidance and evaluation of the technology applications in development.

In testing and validating emerging AV technologies in a controlled setting, we're paving the way for investment opportunities. The program will act as magnet, attracting local and global technologies to advance the passenger experience—the sky's the limit!



AIRPORT SERVICES

Master Planning

Terminal Design

Airport Infrastructure

Non-Aeronautical Revenues

Alternative Project Delivery

Airport Advisory

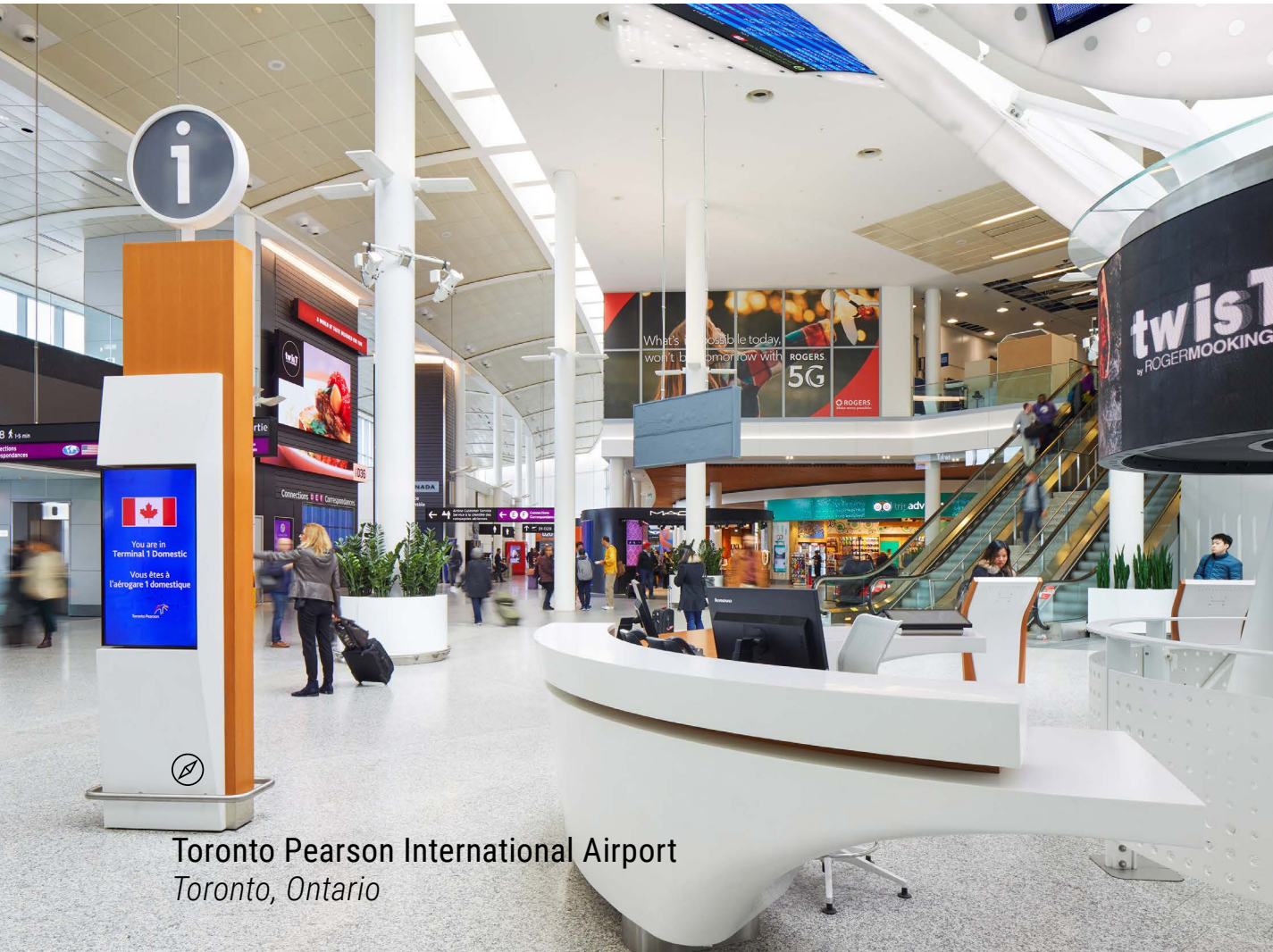
Project Management

Airport Simulation Modelling

Support Infrastructure and Facilities

Hangar Facilities

Cargo Facilities



Toronto Pearson International Airport
Toronto, Ontario



JFK Terminals 6 and 7 Development Project
Queens, New York
(Design: Stantec/Corgan)



Vancouver International Airport
Richmond, British Columbia



Denver International Airport
Denver, Colorado



Lynden Pindling International Airport
Nassau, Bahamas

DESIGN WITH COMMUNITY IN MIND

We're active members of the communities we serve. That's why at Stantec, we always design with community in mind.

By combining our airport planning and design knowledge with our AV-focused experts within GenerationAV, we're accelerating autonomy in airports.



Ted Stevens Anchorage International
Airport, Alaska CargoPort
Anchorage, Alaska



Houston Airport System
Program Management Support
Houston, Texas



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