A photograph showing the silhouettes of three people walking through an airport terminal. Two adults are pulling large suitcases, and a child is walking between them, pointing towards something off-camera. The floor is polished and reflects the light from the large windows behind them.

PARSONS

People. Planet. Progress.

Aviation



Parsons PLUS envision more

Parsons Corporation

Parsons is a technology-driven engineering, construction, and technical services firm with more than 70 years of experience. The corporation is a leader in many diversified markets with a focus on infrastructure, defense, and construction. We deliver design, construction, engineer-procure-construct (EPC), program and construction management, systems engineering and integration, related professional services, and equity investment packaged in innovative delivery solutions to commercial, private, and government customers worldwide.



70+

Years



10,000+

Degrees/
Certifications



\$700B

Construction



80+

Languages

Parsons has been involved in more than 450 airport projects across more than 40 countries, supporting our clients in delivering sustainable, world-class airport infrastructure through cost-effective, value-added consultancy services and at-risk construction. We work to deliver solutions to our clients across all sizes of airports, with infrastructure values ranging from tens of millions of dollars to more than \$10 billion. Parsons can provide full life-cycle capital project delivery services, including strategic advisory services, feasibility studies, planning, design, construction, program and construction management, engineer-procure-construct (EPC), special systems, cyber security, and operational readiness and airport transfer (ORAT).

People. Planet. Progress.

Who we are



Core Services

Consulting
Planning
Design
Construction
Program Management
Construction Management
Systems Integration
Equity/P3/
Operations



Federal

Defense
Environmental
Infrastructure
Intelligence
Security



Global Markets



Industrial

Buildings & Vertical
Communications
Energy & Chemicals
Environmental



Infrastructure

Airports
Bridges & Tunnels
Ports & Harbors
Rail & Transit
Road & Highway Systems
Water & Wastewater



Core Values

Safety
Quality
Integrity
Diversity
Innovation
Sustainability

Our Portfolio



450+
Airports



\$175+
Billion in construction



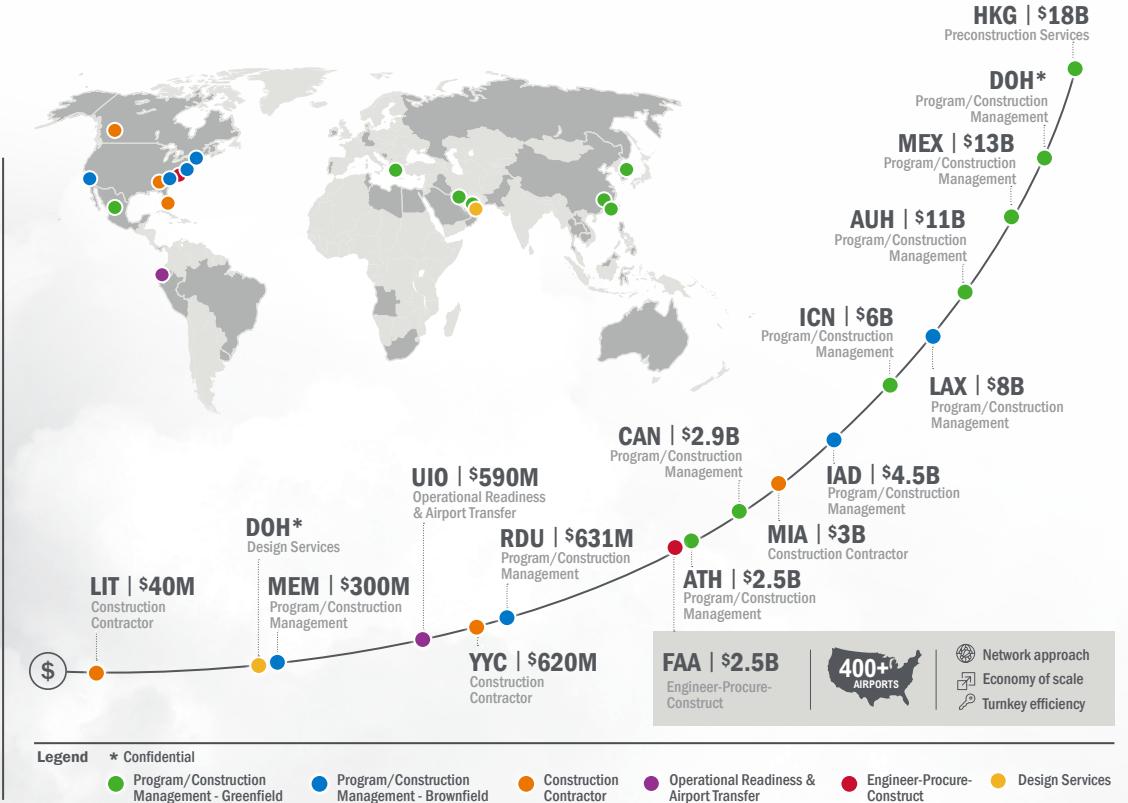
40+
Countries



375+
Airport experts



1,000+
Managed resources



Services At a Glance



Service lines

- Technical Advisor
- Planning
- Design
- Construction
- EPC
- PM
- CM
- Commissioning/
Operational Readiness
- O&M



Types of services

- Turnkey & Total Solutions
- Targeted & Packaged Services
- Scalable & Repeatable Frameworks
- Synergistic & Integrated Solutions

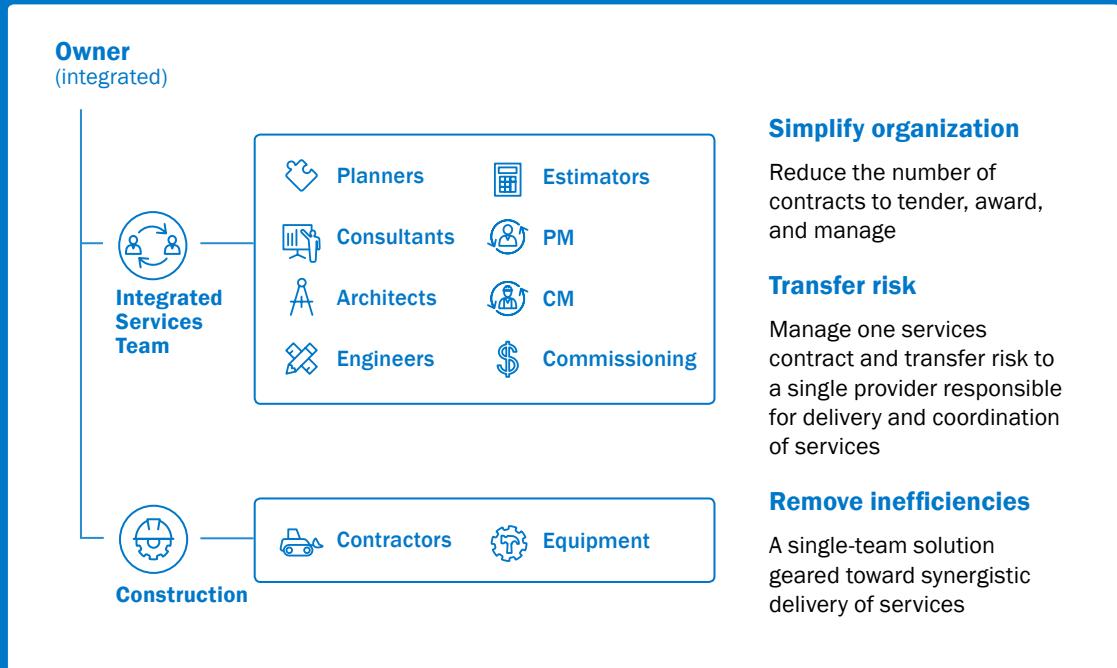


Value-added benefits

- Maximize ROI/
Desired Outcomes
- Manage and
Mitigate Risk
- Integrate Global Best
Practices
- Drive Innovation
- Transfer Knowledge
and Expertise
- Train, Develop,
and Employ Local
Resources

**Drive innovation.
Manage risk. Deliver value.**

Delivering integrated services



Our value proposition



Optimize consultancy fees

A single team takes advantage of the economies of scale and eliminates overlapping consultancy services.



Optimize delivery schedule

A focused and purpose-driven team with continuous project knowledge avoids slowdowns from additional orientation and retains progress from the initial learning curve.



Best-in-class quality & safety services

Implementing effective processes and procedures guarantees a standard quality delivery and industry-best safety practices.



Collaborative problem solving

An integrated single team secures a streamlined work flow and allows for frictionless interaction, ensuring that the focus is on project delivery.



Clear chain of command

Streamlining decision making through promoting accountability, advocating action, and rewarding success is an efficient and effective approach to active risk management.



Experienced stakeholder management

Mitigates scope creep and cost/time impact.

Efficient Designs

We provide best-in-class industry expertise and best practices in the development of cost-effective, constructible designs that address optimal functionality needs.

Agile Risk Management

We provide engaged risk management through the identification of opportunities and risk elements, the generation of probabilistic models, the identification of mitigation plans, and the implementation of customized solutions.

Construction Market Sounding

We assess regional market absorption rates for manpower, equipment, and materials.

Partnering

Building sustainable partnerships in local economies and markets to provide tailored solutions to meet specific needs.

Logistics & Procurement Strategies

Favorable contract packaging and just-in-time resource and material delivery to the site optimizes the logistics supply chain, increases efficiency, and drives cost reduction.

Standardized Execution

We implement efficient and effective solutions and services through standardized execution and best-in-class practices.

Enterprise Program Controls

Implementing cutting-edge controls software platforms and analytical tools provides real-time project performance metrics.

Talent Retention

Project experts who are engaged early in the project stay part of the team. This retains project history and localized information throughout the program.

Delivering the largest greenfield airport programs in the world



ATH
Athens, Greece

New Athens International Airport

Athens, Greece

Owner: Athens International Airport S.A.

Program Value: USD \$2.5 Billion

Program Scope of Work

The project included the construction of a new capital city airport, which is located 24 kilometers east of Athens and replaces Hellinikon Airport. The new airport opened in 2001, with a capacity of 21 million passengers per year. It constituted one of the largest infrastructure projects in Greece's history.

Parsons' Services

- Preconstruction Services
- Program Management
- Construction Management
- Independent Consulting Engineer
- Operational Readiness and Airport Transfer

Program Details

- Two terminals with the capacity to handle 21 million passengers annually



Delivering the largest greenfield airport programs in the world



ICN
Seoul, South Korea

New Incheon International Airport

Seoul, South Korea

Owner: Korea Airport Construction Authority

Program Value: USD \$6 Billion

Program Scope of Work

Phase 1 included a new 4,000-meter-long runway; a centralized passenger terminal building; a satellite terminal building; four remote concourses, each equipped with 32 gates; six cargo terminals; two maintenance hangars/support facilities; and an international commercial center, including hotels, exhibition halls, shops, offices, and amusement facilities.

Parsons' Services

- Planning/Design Review
- Program Management
- Construction Management
- Commissioning

Program Details

- Overall airport size of 5,600 hectares
- Two passenger terminals: 594,000 square meters and 496,000 square meters
- 76 boarding gates, 270,000 aircraft movements

- Annual capacity of 410,000 flights, 44 million passengers
- Accommodates more than 90 airlines
- Three parallel runways: two 3,750 meters long and one 4,000 meters long
- Six cargo terminals processing nearly 2.5 million metric tons of cargo and a 3,500-square-meter cargo warehouse
- Includes recreational areas, museum, administrative buildings, and a 22-story air traffic control tower



Delivering the largest greenfield airport programs in the world



CAN
Guangzhou, Guangdong, China

New Guangzhou Baiyun International Airport

Guangzhou, Guangdong, China

Owner: Guangzhou Baiyun International Airport Corporation

Program Value: USD \$2.9 Billion

Program Scope of Work

The first phase included landside facilities and a new terminal building (300,000 square meters) with 60 gates and the capacity to serve 27 million passengers and 170,000 aircraft operations annually. The new airport is five times the size of the original airport and is now a 24-hour operation.

Parsons' Services

- Conceptual Design
- Preliminary Design
- Construction Support
- Two 3,800-meter runways and one 3,600-meter runway
- Processes nearly 1.3 million metric tons of cargo annually
- Includes parking facilities, a hotel, and China's largest air traffic control tower

Program Details

- Overall airport size of 1,434 hectares
- 130-gate main terminal, connection building, and four concourses



Delivering the largest greenfield airport programs in the world



DOH
Doha, Qatar

Hamad International Airport

Doha, Qatar

Owner: Hamad International Airport Steering Committee

Program Value: Confidential

Program Scope of Work

The project involved the construction of the new North Node and concourses D and E; an internal automated people mover system; 17 high-end airport lounges and activity areas; more than 140 retail, food, and beverage concessions; and miscellaneous enabling works throughout the airport campus.

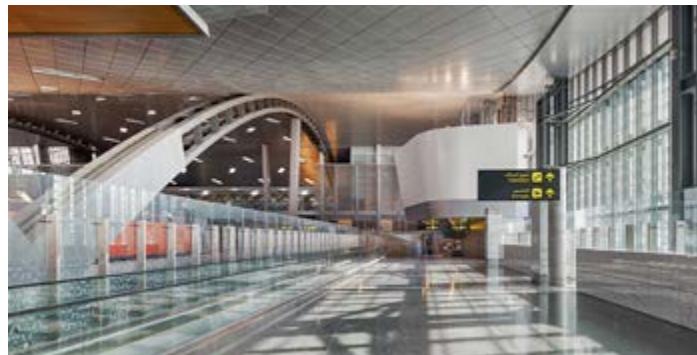
Parsons' Services

- Project Management
- Construction Management

Program Details

- Overall airport size of 3,700 hectares
- 600,000 square meters of terminals and concourses, operating 41 boarding gates and 22 remote stands
- Accommodates 50 commercial airlines, 320,000 aircraft movements

- Handled 29 million annual passengers at its opening, 50 million passengers per year upon completion, and up to 93 million per year estimated
- Two parallel runways: one 4,850 meters long and one 4,250 meters long
- Includes VIP, first, and business class lounges
- 28 art installations in and around the terminal from regional and international artists



Delivering the largest greenfield airport programs in the world



New Abu Dhabi International Airport

Abu Dhabi, United Arab Emirates

Owner: Abu Dhabi Airports Company

Program Value: USD \$11 Billion

Program Scope of Work

This multi-airport capital development program encompasses the greenfield development and/or reconstruction/rehabilitation of five airports, with works centered around the USD \$3 billion new Midfield Terminal Building.

Parsons' Services

- Program Management
- Design Management
- Operational Planning
- Construction Support
- Commissioning

Program Details

- Overall airport size of 6,070 hectares
- Three passenger terminals, including the 700,000-square-meter new Midfield Terminal Building

- Handles 16.5 million passengers annually and planned to handle 50 million passengers upon completion
- Two parallel runways, each measuring 4,260 meters
- Capacity to process 2 million metric tons of cargo annually
- Includes a 109-meter air traffic control tower, airside infrastructure, and NAVAIDs and ancillary airport support facilities with cargo, maintenance, catering, and related facilities



Delivering the largest greenfield airport programs in the world



MEX
Mexico City, Mexico

Credit: Foster + Partners and FR-EE

Mexico City International Airport

Mexico City, Mexico

Owner: NAICM

Program Value: USD \$13.2 Billion - Phase I

Program Scope of Work

The new airport will include the construction of up to six runways and two terminals. In the first phase, the expansion will include three runways and one terminal. The airport's design will make it one of the biggest and most sustainable in the world.

Parsons' Services - Phase I

- Program Management

Program Details

- Overall airport size is 4,950 hectares
- One large terminal of 743,000 square meters
- Designed to handle 50 million passengers annually

- Three 5,000-meter-long and 60-meter-wide runways
- Terminal design uses a continuous lightweight gridshell with internal spans reaching 170 meters
- Goal to achieve LEED Platinum certification for the terminal building
- Maintenance, catering, and related facilities



Credit: Foster + Partners and FREE



Credit: Foster + Partners and FREE

Leading large capital improvement programs



IAD
Dulles, Virginia, USA

Washington Dulles International Airport

Dulles, Virginia, USA

Owner: Metropolitan Washington Airports Authority

Program Value: USD \$4.5 Billion

Program Scope of Work

The Metropolitan Washington Airports Authority's capital construction program includes an underground automated people mover, an international arrivals building expansion, and runway expansion at Dulles International Airport.

Parsons' Services

- Program Management
- Construction Management
- Design Management
- Program Planning
- Commissioning
- 36 air carriers making more than 300,000 aircraft movements annually
- Four runways, measuring 3,505 meters, 3,200 meters, 2,865 meters, and 3,505 meters
- Includes seven airport lounges and a 6-kilometer underground automated people mover maintenance, catering, and related facilities
- LEED certification

Program Details

- Overall airport size of 4,790 hectares
- Three terminals handling more than 22 million passengers



Construction contractor on large construction programs



MIA
Miami, Florida, USA

Miami International Airport

Miami, Florida, USA

Owner: Miami-Dade County Aviation Department

Program Value: USD \$3 Billion

Program Scope of Work

The capital improvement program included the construction of the North and South terminals and an automated people mover (APM) system connecting travelers to and from rental car facilities and regional public transportation services.

Parsons' Services

- Construction Manager At-Risk (MIA South Terminal)
- Design Build Joint Venture Partner, Construction Contractor (MIA Mover, MIA North Terminal)

Program Details

- Overall airport size of 1,335 hectares
- Three terminals handling more than 40.5 million passengers annually

- Four runways, measuring 2,621 meters, 3,202 meters, 3,962 meters, and 2,851 meters
- Processes nearly 2 million metric tons of cargo annually
- Three parking facilities, an automated people mover with four stations, a seven-story hotel, and offices
- The MIA Mover project was the airport's first LEED-certified project



Construction contractor

on large construction programs



YYC

Calgary, Alberta, Canada

Calgary International Airport

Calgary, Alberta, Canada

Owner: Calgary Airport Authority

Program Value: USD \$620 Million

Program Scope of Work

The work included the construction of a new runway, associated taxiways, an aircraft parking apron, a central de-icing facility, and other works as part of the Calgary Airport Authority's Runway Development project. Additional work included the construction of two vehicle underpasses.

Parsons' Services

- Construction Contractor

Program Details

- Overall airport size of 2,136 hectares
- One terminal handling 13.6 million passengers, 240,000 aircraft movements

- Four runways: 1,890 meters, 2,438 meters, 3,863 meters, and 4,267 meters
- Processes 150,000 metric tons of cargo annually
- Office buildings, a hotel, and a 610-meter tunnel



Delivering sustainable infrastructure

first LEED Gold-certified terminal in the U.S.



SFO
San Francisco, California, USA

Delivering sustainable infrastructure

first LEED Silver-certified terminal renovation in the U.S.



LAX

Los Angeles, California, USA

Delivering mission-critical systems



FAA
Various Locations, USA

FAA National Airspace Program

Various Locations, USA

Owner: Federal Aviation Administration

Program Value: USD \$2.5 Billion

Program Scope of Work

This 10-year nationwide contract provides real estate acquisition, new/upgraded facility design and engineering, program management, security enhancements, environmental management, construction management, and operations and management services to support the FAA's National Airspace System, the largest, busiest, most complex, and most technologically advanced aviation operation in the world.

Parsons' Services

- Design and General Engineering Services
 - Program Management
 - Construction Management
 - Operations and Management
- traffic control and base buildings, and modernization and site preparation for FAA facilities located in all 50 states, Puerto Rico, and Guam
- Environmental analyses and surveys at 400 FAA sites nationwide

Program Details

- Average of 500 simultaneous separate projects per month
 - Construction management of new air traffic control towers,
- Logistics management support for government property management of more than 4,000 government-owned items



Plan. Deliver. Sustain.

World-class airport infrastructure for a brighter,
more efficient tomorrow.





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Aviation 2017
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