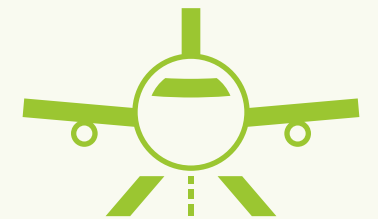




Engineering
for people

AIRPORT ENGINEERING SERVICES





A LEADER IN CONSULTING ENGINEERING



EMPLOYEE-OWNED AND CLIENT FOCUSED

With more than 30 years of industry experience, CIMA+ is the consulting engineering firm of choice across Canada. Our interdisciplinary team works hand-in-hand with clients to deliver exceptional results on projects large and small.

We are proud to be employee-owned and rated one of Canada's best employers. This unique business model supports our strong culture of excellence, entrepreneurial spirit, and accountability. Clients love working with our talented roster of professionals and we take pride in delivering successful projects that set the stage for long-lasting, partnerships.

45+
offices across
Canada

30+
years of industry
experience

3,700+
employees



“ We wish to make a difference with our employees, clients, and business partners to shape an inclusive, fair and carbon neutral world. We must work towards this ideal that is not contrary but rather complementary to the sustained growth we are aiming to achieve. ”

Denis Thivierge, P. Eng.
President and Chief Executive Officer



MADE-TO-MEASURE SOLUTIONS FOR CANADIAN AIRPORTS

WE OFFER COMPREHENSIVE SERVICES FOR THE FULL LIFE CYCLE

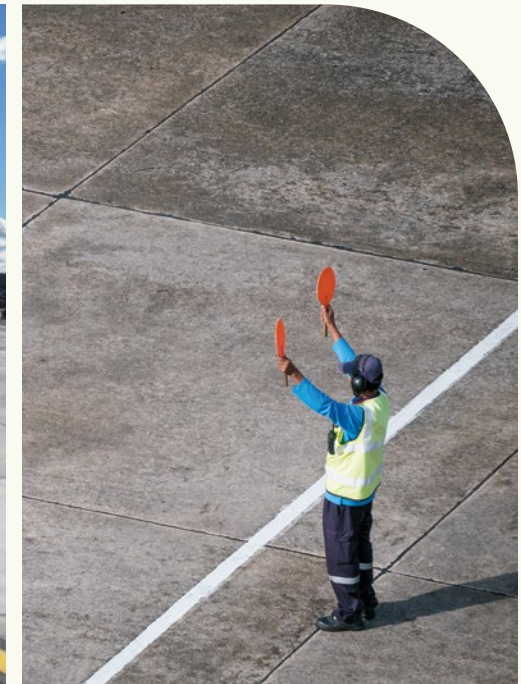
Our airport experts are present in various offices from coast to coast and have carried out a wide variety of projects for airports of all sizes, for both the private and public sectors in Canada and abroad. To get your project off the ground from concept to first flight, CIMA+ provides the full scope of engineering services from planning, and design to project management and construction management, as well as rehabilitation. We also provide expertise to support and complement clients' operational and technical personnel.

WE STRIVE TO ALWAYS RAISE THE BAR

Innovation is part of our values. This means keeping energy efficiency and sustainability in mind, working in traditional and alternative delivery modes, using the newest technologies such as 3D scans, 3D CAD and drones, optimizing projects with Building Information Modeling (BIM), and integrating total life cycle costs. In order to deliver the highest standards of quality, our team maintains membership in various organizations, such as the Institute of Transportation Engineers (ITE), the Canadian Society of Civil Engineers (CSCE), the American Society of Civil Engineers (ASCE) and provincial engineering associations.

WE THINK LIKE OUR CLIENTS

CIMA+ offers tailor-made solutions that take into consideration the airport's size and characteristics and meet the operational, strategic and commercial objectives of the client and other stakeholders. Our team also understands that airports provide essential services to local and global markets, and require uninterrupted service from numerous facilities, building systems, and infrastructure. Finally, because an airport is a business, making sure that the capital expenditure program is consistent with the client's financial and operational reality is also an integral part of our approach.





PLANNING AIRPORTS

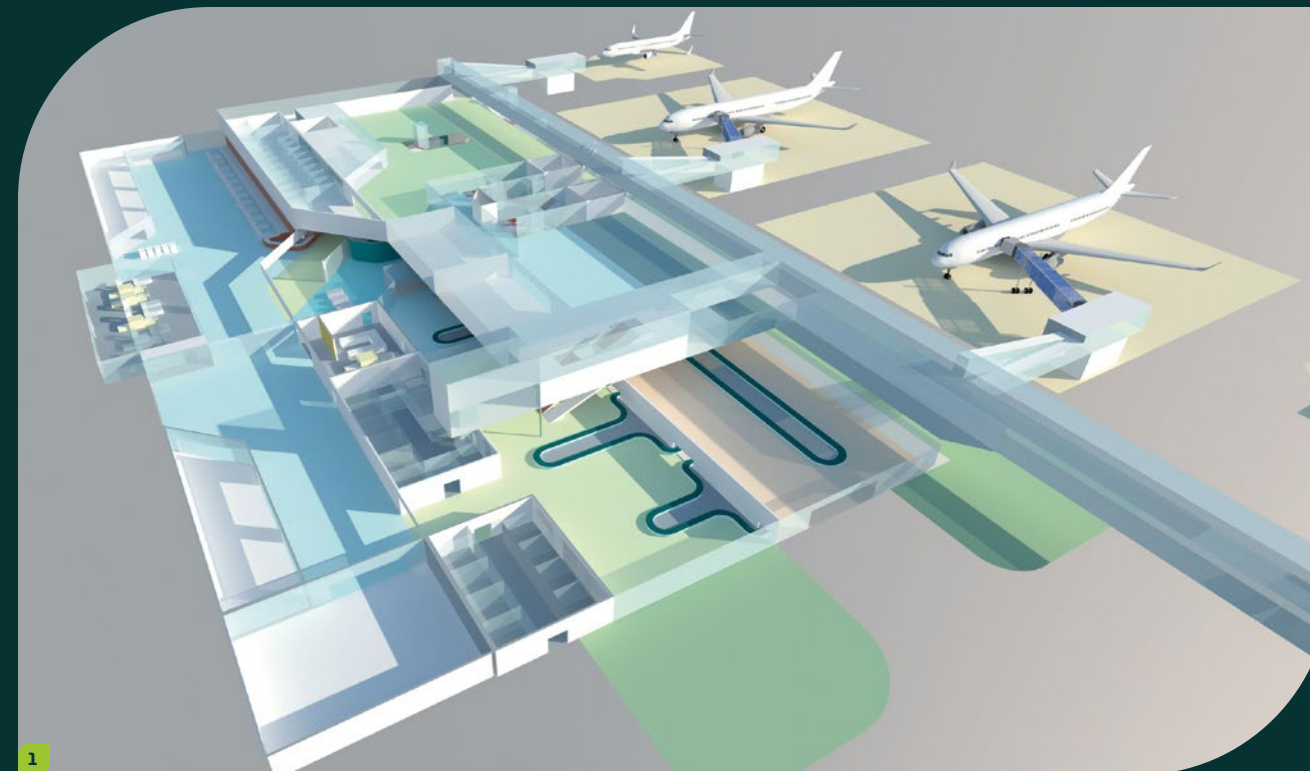
Our services, including simulation modelling, are efficient and cost-effective, in order to improve/support design and for troubleshooting prior to finalizing drawings and specifications.

To help you leverage the full potential of your facility, we provide realistic and cost-effective capacity requirements and phasing (“right-sizing” + “right timing”). Clients are therefore able to make better decisions, thanks to our delivering relevant programs, as well as capacity and level-of-service metrics. This important step will help avoid costly adjustments and scope creeps, without passing a bottleneck down to the next subsystem.

We also carried out the following projects:

- Evaluation of options for the addition of a runway, while minimizing environmental and social impacts on the surrounding community, and preliminary design of airport pavement and underground infrastructure (Edmonton International Airport, Alberta)
- Definition of aeronautical requirements, TP312 and support for the production of drawings and specifications for Hydro-Quebec’s LG3 Airport (James Bay, Quebec)
- Study for the implementation of a de-icing centre (Jean-Lesage International Airport, Quebec City, Quebec)

CIMA+ conducted a planning and engineering study with CAPEX for a PPP project, the Fedorovka airport in Omsk (Russia). Services covered minimum technical and financial requirements to be included in the tender documents, as well as risk management.



1 Fedorovka airport in Omsk, Russia
2 Edmonton International Airport, AB



3 Hydro-Quebec's LG3 Airport, James Bay, QC



DESIGNING AIRPORTS AND AIRFIELDS

CIMA+ works with you to design facilities that will meet your current and evolving needs. Keeping future goals in mind, we understand that advancing technologies and growing aircraft sizes need to be taken into consideration. Our independent review service also assists in identifying problems and corrective measures before committing to construction as changes after construction are expensive and disruptive. We also provide due-diligence expertise required by funding agencies to commit funds.

From electrical to earthworks, and from pavement to utilities, CIMA+ can provide cutting-edge design solutions to meet your most important needs in terms of:

- Airside and groundside pavement
- Storm water drainage and management systems
- Aircraft maintenance hangars and office buildings
- Rescue and fire fighting buildings
- IT and telecommunications master plans
- Airfield lighting systems
- Ground side roadway and car parks
- Aircraft de-icing facilities and systems

Designing a de-icing facility

CIMA+'s civil, electrical and mechanical experts teamed up to design and supervise the construction of the 40,000 m² de-icing pad expansion with a taxiway to accommodate three additional aircraft at the Montréal-Trudeau Airport in Montreal (Quebec).





IMPLEMENTATION

CIMA+ applies recognized project management principles, and ensures thorough and effective content, schedule, cost, risk and quality management. Our team uses the earned value method to obtain cost and schedule performance indicators, which contributes to ensuring efficient follow-up of a project, and close monitoring of its progress.

Our project managers can effectively manage your project from the design phase up until the final stage of commissioning. We have the skills and knowledge to offer services in the following areas:

- Design management
- Construction management
- Risk analysis
- Value analysis
- Scheduling and schedule control
- Cost estimate, cash flow planning and cost control
- Procurement
- Document control

Our project management team was involved in the second phase of the Montréal-Trudeau Airport expansion, which, once completed, was the most important of the overall expansion project; the surface area of the International jetty was doubled, with the addition of six new gates and bus loading platforms.





REHABILITATION AND EXPANSION

We know that airports involve far more than buildings and runways. They are interrelated systems with the prime function of processing aircraft, passenger, baggage and vehicle flows, while maintaining the utmost focus on safety and economics.

CIMA+ ensures that any overall airport expansion program includes realistic forecasts to avoid unnecessary or premature investments, while maintaining the critical flows of passengers and goods through the facility. Rehabilitation and expansion projects namely include passenger terminals, airside pavement and ground side pavement.

Following are some of the numerous rehabilitation and expansion projects carried out by CIMA+:

- Review of the existing installation and identification of required modifications to comply with revision 5 of Transport Canada's TP-312 standard. (Sept-Îles Airport, Quebec)
- Expansion of airport facilities, including buildings' footing, tarmac and drainage area. (Salluit Airport, Nunavik, Quebec)
- Work supervision, expansion of tarmac, relocation of a fuel tank, construction of a concrete slab and warehousing of materials (Kangirsuk Airport, Nunavik, Quebec)
- Rehabilitation of the runway, taxiway, tarmac, road and station (Poste Montagnais Airport and Eric Road)
- Modifications to the electrical drawings and specifications for the upgrading of the electrical equipment in order to comply with current standards (Havre St-Pierre Airport)
- Upgrading of electrical equipment in order to comply with current standards, as part of the rehabilitation of the movement area and replacement of visual aids (Gatineau-Ottawa Executive Airport)



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FOR MORE INFORMATION, CONTACT US:

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WE HAVE A LOCAL PRESENCE FROM COAST TO COAST, ALL ACROSS CANADA.

Baie-Comeau Beauce Bécancour Barrie Bowmanville Burlington Calgary – Airport Calgary – Downtown
Clareville Edmonton – Downtown Edmonton – West Gatineau Granby Guelph Halifax Kelowna Kitchener
Labrador City Laval Lévis London Longueuil Mississauga Montréal Oakville Ottawa Québec City Red Lake
Regina Rimouski Rivière-du-Loup Rouyn-Noranda Saguenay Saint John, NB Saskatoon Sept-Îles Sherbrooke
Sorel-Tracy St John's, NL Sudbury Terrace Terrebonne Thunder Bay Toronto Vancouver Victoria West Kootenays

KINCENTRIC
Best Employer

CANADA 2023



Engineering
for **people**

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