

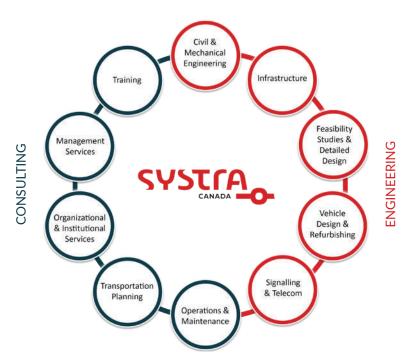
SYSTRA CANADA

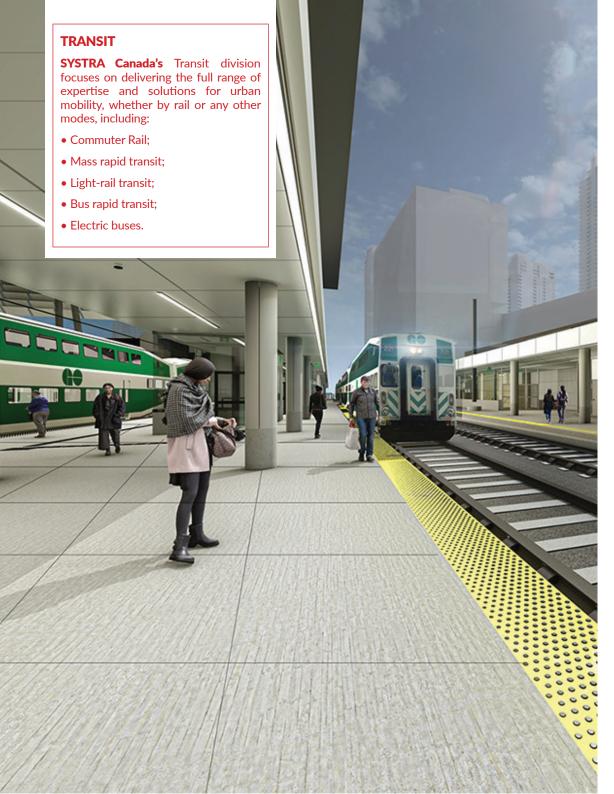
SYSTRA Canada is an engineering and consulting firm whose primary focus is to offer transportation solutions for passengers or goods.

With its main office in Montreal (Quebec) since 1991, SYSTRA Canada delivers innovative consulting, engineering and project management services in all fields of transportation, including track and infrastructure, rolling stock, railway operations, signalling and telecommunications, economic and financial studies, marketing, institutional and management consulting, as well as support services.

SYSTRA Canada has successfully carried out over 900 projects all over the world.

TRANSPORTATION SECTOR





TRANSIT

Urban Mobility

Our Transit division covers all disciplines related to the mass transit sector.

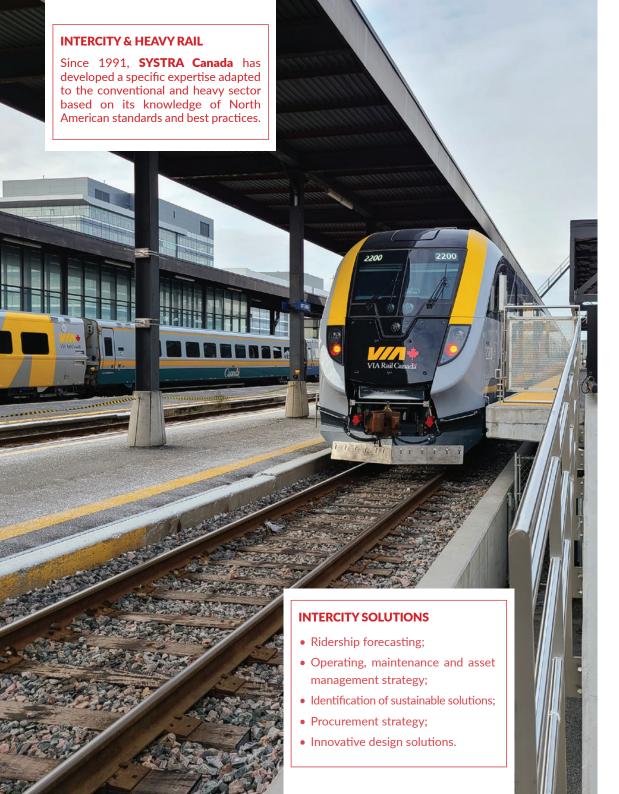
Our team's expertise covers the full portfolio of competencies to assess, shape and deliver efficient, optimized and innovative passenger transportation solutions, whether by assisting public authorities along the full cycle of definition and delivery of a project, or through other delivery models (including PPP/ Design & Build).

Our teams have the know-how to advise you at every stage of your project:

- Transport planning and preliminary Electrification; studies;
- Infrastructure (including specific knowledge of North American and international standards);
- Rail systems design and systems integration;

- Safety and security;
- Testing and commissioning;
- Operation and maintenance;
- Design and optimization of bus charging infrastructure.





INTERCITY & HEAVY RAIL

Freight & Mining

SYSTRA Canada offers a comprehensive range of services for the planning, engineering, implementation and operation of freight and mining railways.

Scoping, Pre-feasibility and Feasibility Studies: from scoping to investment grade studies (technical and financial).

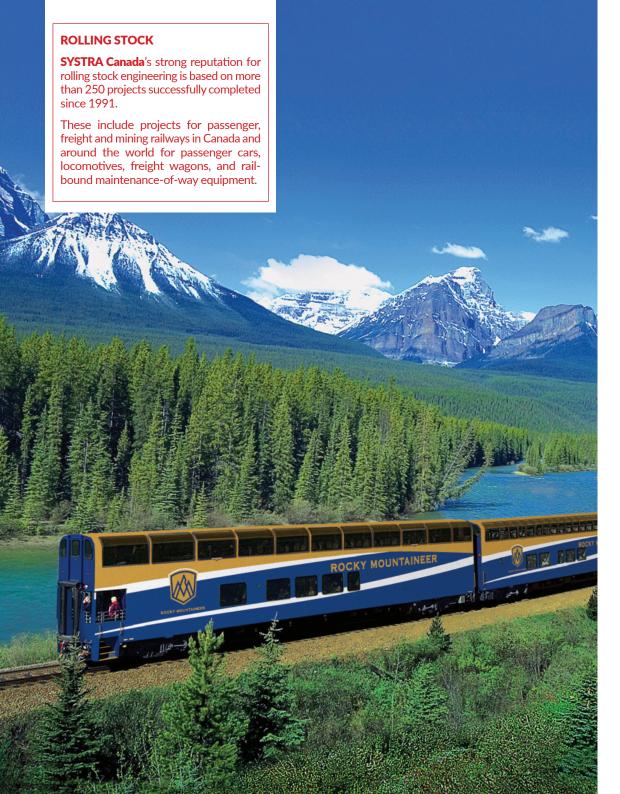
Engineering, Procurement and Construction Management Services: conceptual design of railways, alignment optimization for cost reduction and operational efficiencies, detailed design, contracting strategy services (tendering, evaluation and award), construction supervision, full EPCM contracts.

Technical Services: increasing railway capacity (track and bridges) and axle loads, inspection and audit services, rolling stock and workshop planning, design and specifications, planning and engineering of railway signalling and telecommunications systems, development of maintenance and engineering systems and manuals, assessment of existing operations with the objective of reducing OPEX by optimizing the use of existing assets.

O&M Engineering and Asset Management: capacity planning and analysis, rules development, railway safety audits, strategic transportation planning, operational and maintenance support, asset management strategy, training.

Institutional: training and technical assistance, organizational reform, market and traffic assessment, railway service costing and tariff setting.





ROLLING STOCK

Rail Vehicles

SYSTRA Canada provides a unique set of rolling stock-related services, from engineering to management of procurement and execution of refurbishing and rehabilitation programs.

We provide expert preparation of technical specifications, management of tenders, evaluation of proposals, contract negotiations and assignment, manufacturing supervision, supervision of factory and site tests and operating strategies, SYSTRA Canada also provides turnkey solutions; from detailed design of vehicle modifications or repair, up to full refurbishment of rail vehicles.

Our expertise in Rolling Stock includes:

- Turnkey performance of overhaul/ refurbishment;
- Design and technical specifications of rolling stock;
- Procurement services and quality inspection;
- Reliability-based maintenance for locomotives;
- Design and planning for workshops and maintenance programs;
- Management systems for fleet maintenance equipment;
- Technology or feasibility assessment.

SYSTRA Canada has also developed a renowned expertise in the rehabilitation of existing rolling stock and takes on "turnkey" prime contracting roles.



GLOBAL PRESENCE

SYSTRA Canada is recognized worldwide for its comprehensive railway expertise, whether in the freight and mining sector, promoting its knowledge of North American standards and rules, or in passenger mobility, offering a full set of expertise and know-how.



SYSTRA CANADA – INDUSTRY LEADERSHIP

Since 1991, SYSTRA Canada has successfully completed hundreds of projects around the world.

SYSTRA Canada's mission is to provide innovative, reliable and efficient solutions tailored to clients' objectives, in Canada and around the world. We live beyond our values: integrity, respect, excellence, versatility and confidence.



PROJECTS: OUR THREE MARKETS



IHR - FREIGHT & MINING focus

- Société de développement autochtone de la Baie James/Cree Development Corporation, Quebec - La Grande Alliance Project. Feasibility study for the 450-km rail component.
- Simandou project, Guinea-Client's engineer for the 650-km railway.
- QC Rail Project Manager for the feasibility study of the 360-km railway between Baie Comeau and Dolbeau.
- Boké Railway, Guinea EPCM for Multiuser Expansion Project.
- North-South Rail 2,400-km new freight and passenger network in Saudi Arabia.
- Baffinland Iron Mines, Quebec Feasibility through detailed design of 150-km Arctic railway on permafrost.
- Preliminary Engineering Study for a 300-km Northern Quebec Multi-user Railway Link.
- Kerail Project, Quebec EPCM for link between Knob Lake & the Timmins Mine.



TRANSIT

- Metrolinx, Canada GO Expansion Program Delivery Partner. A multibillion-dollar expansion and upgrade to the commuter rail network in the Greater Toronto and Hamilton Area.
- Ontario Line Technical Authority, Canada - Rail Systems expertise for a new fullyautomated subway line in Toronto.
- RTC, Quebec City, Canada Tramway and electrification of a bus fleet.
- STM, Canada Feasibility Study. Electrification of the Bellechasse bus garage.
- CDPQi, Canada Greater Montreal's REM project and the REM de l'Est expansion project.
- City of Montreal, Canada Montreal tramway study.
- Feasibility study and impacts Aerial tramway, Laval, Quebec, for STL.



 VIA Rail, Canada – Electrical and mechanical work for overhaul of diner cars.

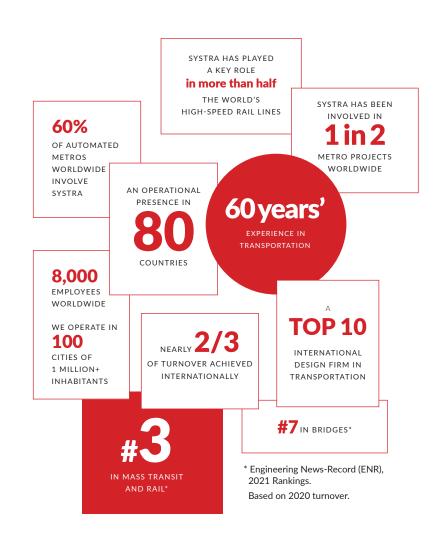






SYSTRA GROUP IN NUMBERS

Globally, the SYSTRA group is the signature team for transportation solutions; a world-leading engineering and consulting firm.





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