

MUNICIPAL INFRASTRUCTURE

SHAPING AND ENHANCING COMMUNITY LIFE

CITIES BUILT FOR LIVING

50+

Years of experience
in Canada

45

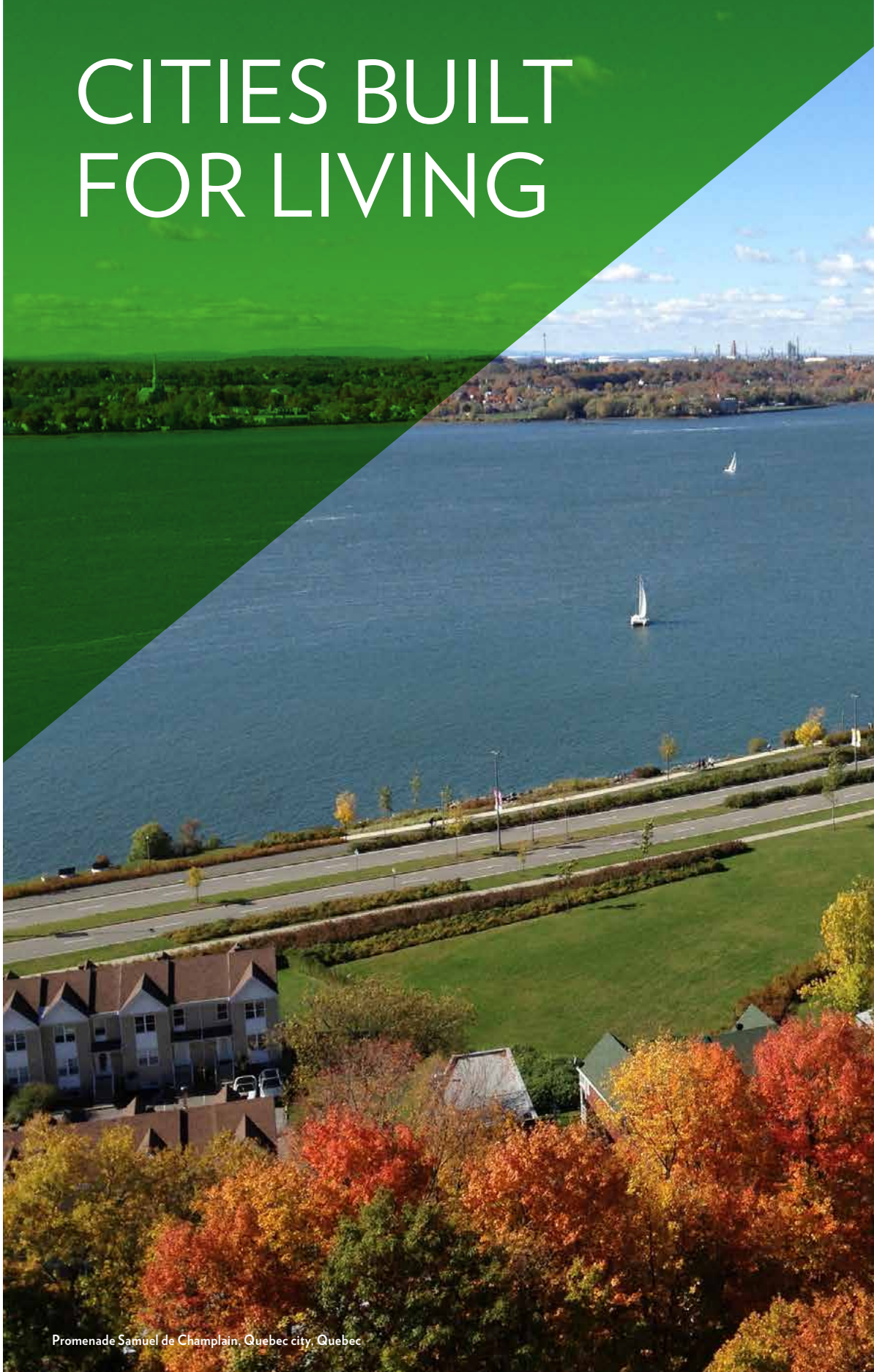
Municipal Infrastructure
offices in Canada

650+

Municipal Infrastructure
professionals in Canada

1,700+

Municipal Infrastructure
professionals worldwide



Promenade Samuel de Champlain, Quebec city, Quebec



OUR TOWNS AND CITIES ARE GROWING. IN ORDER TO MEET THE NEEDS OF THESE EVER-EVOLVING URBAN COMMUNITIES, WE MUST UNDERSTAND THEIR ENVIRONMENTS - SOCIAL, BUILT AND NATURAL.

Today, 54% of the world's population lives in cities. Both in Canada and across the world, we are witnessing urbanisation on an unprecedented scale. Each city comes with its own set of complexities, however, across the board, one major challenge facing the vast number of urban areas stands out: transforming their ageing infrastructure.

The infrastructure engineers who live and work in these growing metropolises must lay the foundations for infrastructure that can adapt over time, in parallel with our changing lifestyles. Cities must be created to be resilient and continue to provide opportunities for employment while offering comfortable living. There is a pressing need to dramatically reduce the energy and water use of established cities and the amount of waste they produce, but there are many political and economic barriers to the substantial changes that are required. Cities are where future economic growth will be concentrated – but that growth must be decoupled from negative environmental and social impacts.

With over 50 years of infrastructure engineering experience through working with city managers and developers, WSP's infrastructure team has the technical expertise to deliver municipal infrastructure on par with the world's best. Our local teams work in their communities, while benefitting from WSP municipal infrastructure expertise from around the globe.

04 OUR PROJECT EXPERIENCE

EACH PROJECT IS UNIQUE TO ITS COMMUNITY, TOWN OR CITY. AS INFRASTRUCTURE EXPERTS, WE UNDERSTAND THE PROJECT CONDITIONS, NEEDS AND EXPECTATIONS OF EACH CLIENT AND OFFER SUSTAINABLE, EFFICIENT SOLUTIONS.



01 HARRINGTON HARBOUR, HARRINGTON, QUEBEC

CLIENT: Côte-Nord-du-Golfe-du-Saint-Laurent Municipality

YEARS: 2011 - 2014

Located on a rocky island on the Gulf of the Saint-Lawrence, the vibrant yet isolated community of Harrington Harbour required a new water network to service 110 residences. This project consisted in the installation of a water treatment plant with membrane filtration, two 60m³ reservoirs for treated water, a distribution system replacing the old network with 3.5 km of new insulated and heated water network.

02 SUN RIVERS GOLF RESORT, KAMLOOPS, BRITISH COLUMBIA

CLIENT: Sun Rivers Golf Resort Community

YEARS: 2006 - 2014

WSP provided civil engineering and 3D visualization services to Sun Rivers for a number of phases of this master planned golf resort community. Sun Rivers features 2000 units, a resort hotel, village centre and community amenities overlooking two picturesque rivers. Innovative geothermal technology, dual water systems and BuiltGreen Platinum construction technology set Sun Rivers apart as a blueprint for sustainable developments.

03 LORNE PARK WATER TREATMENT PLANT, PEEL, ONTARIO

CLIENT: Region of Peel

YEARS: 2006 - PRESENT

This project entailed designing the \$200 million expansion of the Lorne Park Water Treatment Plant. The retrofit combines traditional approaches with new technologies to achieve high levels of treatment and the expansion capacity to service population growth to 2031. Lorne Park received an ACEC Award in Excellence for merging existing and new technology while providing uninterrupted high quality drinking water to the region.



Awards: Canadian Water and Wastewater Association's Utility Excellence.
Category: "Innovative Technology/ Large Utility"
Ontario Public Works Association Award.

2013 Canadian Consulting Engineering Award of Excellence. Category: Water Resources

04 ROYALE HEMLOCKS SUBDIVISION, BEDFORD, NOVA SCOTIA

CLIENT: Armco Capital

YEAR: 2008

Royale Hemlocks is a 1,200 mixed-unit residential subdivision and includes neighbourhood parks, an elementary school, a soccer field, and substantial natural park areas. The project started with planning services, including rezoning and negotiation of the development agreement with Halifax Regional Municipality in conjunction with development of the overall concept plan. A full range of land surveying and engineering services was provided.



04 -

06 WHAT WE DO

OUR PRACTICE AREAS

Feasibility and asset planning

Infrastructure services for buildings

Land development

Linear infra repair/ renewal

Pumping station / mechanical process

Road/ corridor services

Road renewal / repair

Storm water management

Urban architecture design

Water supply / wells / reservoir

Water/ wastewater treatment

OUR SERVICES

3D design / Technical Simulations (2D and 3D)

Due Diligence and Third Party Review

Feasibility studies

Hydraulic modeling

Infrastructure planning

Preliminary and Detailed Engineering

Problem diagnostics

Project management

Site supervision

Surveying, infrastructure survey and GIS data and modelling

Technical expert studies





9.6B

Projected world population by 2050*

66%

Projected world population living in cities by 2050*

- 01 Stockholm Royal Seaport, Stockholm, Sweden
- 02 Pacific Rubiales Water Treatment Plant, Campo Rubiales, Colombia

OUR GLOBAL EXPERTISE IN MUNICIPAL INFRASTRUCTURE

Worldwide, our infrastructure engineers are united by our common values. They are passionate and caring, reaching out and sharing expertise to find innovative solutions together. WSP's municipal infrastructure engineers work locally and are part of a network of experts that collaborate internationally. Throughout the world we have examples of specialists striving to create cities meant for better living.

The Water group from across WSP unites specialists in water resources, water and wastewater treatment and hydraulics. Our

Canadian infrastructure engineers regularly collaborate with WSP's Caribbean engineers on large infrastructure projects in emerging markets.

In Sweden, WSP is leading the way in Rock Mechanics by applying technology and know-how in building energy and cost saving underground installations and reservoirs as well as tunnels for infrastructure and transport.

The infrastructure engineers at WSP in China and the USA work on world-class projects that bring together transportation and municipal

engineering. Meanwhile, our team in Africa has developed an expertise for building vital new infrastructure networks and systems amidst the challenges and difficulties facing emerging countries.

Due to our wide range of skills, capabilities and experience throughout our business, we have unrivalled expertise in rising to the challenges of this century. That means we can help both emerging and established communities to adapt to their place in the world, and ensure that they thrive.

ABOUT WSP IN CANADA

As a Canadian multinational, WSP is one of the world's leading engineering consulting firms. A leader in transforming the built environment and restoring the natural environment, our expertise ranges from engineering iconic buildings to designing sustainable transport networks, to environmental remediation and urban planning, to developing tomorrow's energy sources and finding innovative ways to extract essential resources. Working with governments, businesses, architects and planners, we provide integrated solutions for all of the markets in which we operate. With 8,700 dedicated professionals in Canada, supported by a worldwide network spanning 40 countries, our teams are committed to helping our clients succeed no matter how they grow, what they choose to do, or where they move.



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