



TRANSPORTATION & INFRASTRUCTURE SURVEYS

MOVING GEOMATICS FORWARD



SUCCESSFUL PROJECT DELIVERY REQUIRES INNOVATIVE GEOMATICS SOLUTIONS THAT PROVIDE DATA, COST AND SCHEDULE MANAGEMENT. WSP APPLIES A BROAD SKILLSET FOUNDED IN ADVANCED GEOGRAPHY, GEODESY, AND ENGINEERING SUBJECT MATTER TO SUPPORT THE DEVELOPMENT OF COMMUNITIES AND THE INFRASTRUCTURE THAT SUPPORTS THEM.

80%

Involvement in top infrastructure projects in Canada

1,000+

Kilometers of major road and transit projects surveyed

70+

Years of surveying experience

DELIVERING YOUR PROJECT WITH SPEED AND CERTAINTY



From highway to railway, from airport to seaport, from transmission line to pipeline, people have been learning to connect and move goods no matter the terrain or challenge. As a result, transportation has evolved drastically and so must the structures, systems and facilities that support these arteries.

Transportation and infrastructure projects mean large construction costs with the potential to escalate scope and schedule. WSP provides Geomatics services in support of some of the largest and most challenging infrastructure projects in Canada. Our Geomatics knowledge, daily work and advanced technology offerings are key inputs

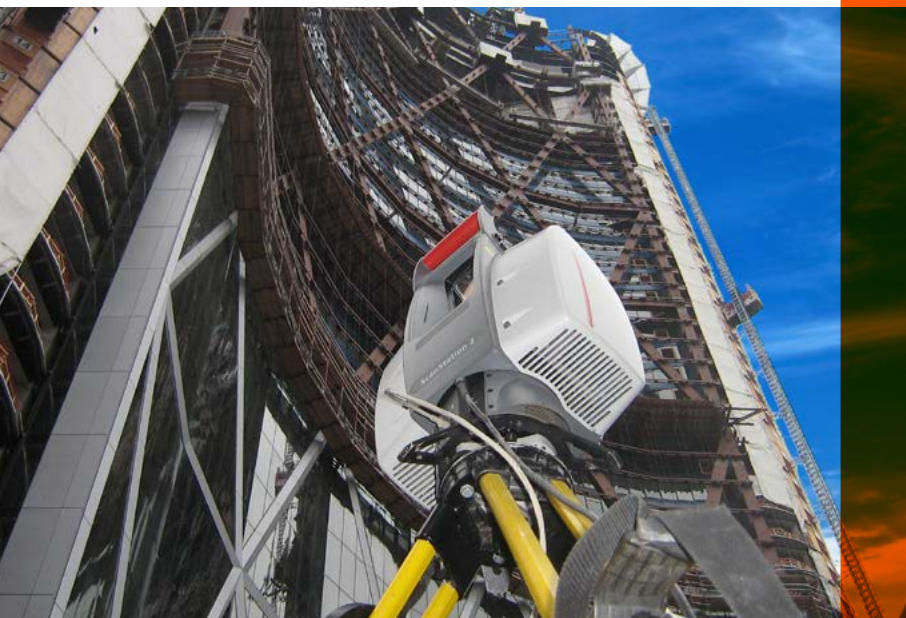
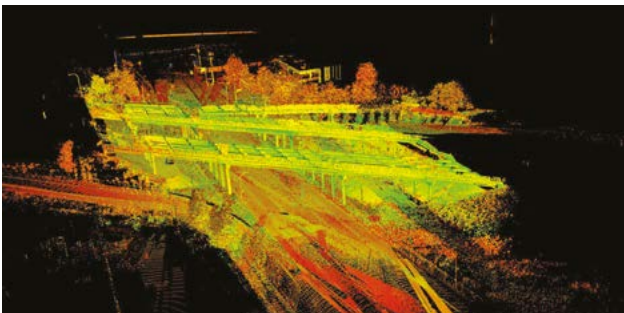
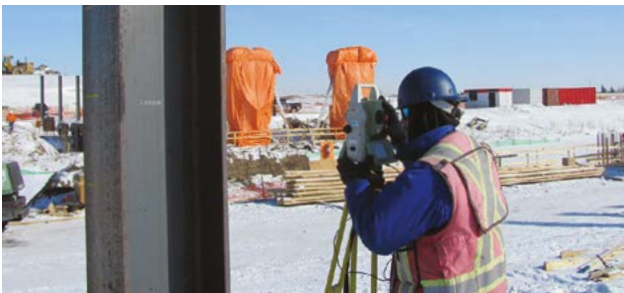
throughout the planning, permitting, and construction phases of buildings and communities, as well as the necessary transportation and transit infrastructure that serve them.

WSP uses leading-edge technologies for understanding project requirements, collecting, analyzing and displaying the data, and then delivering it to our customers. WSP understands where the challenges lie with regards to spatial data management for infrastructure projects specifically, and that such problems can lead to increased exposure to risk that can impact costs, delivery, profitability, your reputation, and the satisfaction of your clients.



YOUR PARTNER FOR TRANSPORTATION AND INFRASTRUCTURE PROJECTS

WSP offers its clients a range of solutions that far exceeds 'boots on the ground' field work. We have developed an information-integrity-based approach to working with our transportation and infrastructure sector clients. Using our depth of experience, technical knowledge, and understanding of the challenges faced by our clients, we collaborate with our clients long before any field survey work happens, in order to ensure that the best approach, tools, and techniques for your specific situation will be deployed. We then collect the data, and, rather than just handing it over and moving on, WSP stays involved in the process to make sure that the information we help to produce is fit for purpose and continues to provide value throughout the duration of the project.



OUR PROJECTS

THE BOW SKYSCRAPER CALGARY, ALBERTA

Legal and precision layout survey services including structural steel, gridline, and deck edge layout, control network establishment, real-time building monitoring, and 3D (strata) ownership plans.

VICTORIA AIRPORT VICTORIA, BRITISH COLUMBIA

Legal, topographic, and GIS Mapping services to the airport including OLS and AZR surveys as well as custom web-based GIS applications.

REGINA BYPASS PROJECT REGINA, SASKATCHEWAN

Legal, construction, alignment staking, and utility locating services.

MCCLUNG COMMUNITY DEVELOPMENT HALDIMAND COUNTY, ONTARIO

Topographic and legal survey services.

EGLINGTON CROSSTOWN LRT GIS TORONTO, ONTARIO

Engineering and geomatics services including GIS mapping and web GIS services.

SOUTHEAST STONEY TRAIL (SEST) CALGARY, ALBERTA

Pre-engineering control and topographic and utility mapping as well as construction survey and quantity verification services.

EVERGREEN LINE VANCOUVER, BRITISH COLUMBIA

Topographic mapping, high definition scanning, and precision construction layout services.

DOT ROUTE 11 NEW BRUNSWICK

Legal, topographic, and construction survey layout services.

OUR SPECIALTIES AND EXPERTISE

LAND SURVEYING

Boundary Retracement & Staking
Subdivision, Strata, Condominium, &
Leasehold Surveys
Right-of-way
Real Property Reports
Building Location Certificates
Encroachment Identification

CONSTRUCTION SURVEYS

Survey Coordination & Management
Geodetic Control Network
Project Grid / Control Line Layout
Earthworks & Volumes
Precision Layout (grades, steel, concrete,
& pilings)
Machine Control Setup
Dimensional Control
As-builts & Reporting

ENGINEERING SURVEYS & MAPPING

Geospatial Data Advisory, Sourcing,
Validation, & Integration
Transportation / Transit Corridor Topographic
& Control Surveys
Remote Sensing
LiDAR
Aerial Photography
Parcel Mapping, & DTM Creation
Un-manned Aerial Vehicle (UAV)
Utility Verification & Mapping
Obstacle Limitation, Approach & Runway
Surveys
Condition Assessments
Rail Crossing Assessments
Bathymetric Surveys
Deformation & Settlement Monitoring
High Definition Scanning & 3D Model Creation
Project Mapping & GIS

QUALITY CONTROL / QUALITY ASSURANCE

Quantity Verification & Reporting
Building Monitoring & Control
Quality Control As-builts & Reporting

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 more than 8,000 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.



wspgroup.ca