



WSP Smart™ Solutions Delivering IoT Services for:

- Airports
- Business Improvement Areas
- City Administration
- Commercial, Retail Space
- Correctional Institutes
- Courthouses
- Developers
- Educational Campuses
- First Responders
- Healthcare
- Industrial Parks
- Libraries
- Manufacturing Plants
- Military Sites
- Property Owners
- Public Buildings, Museums
- Recreation Parks
- Sports Complexes
- Transit Agencies
- Utilities
- Urban Trails

Questions, opportunities?

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Visit wsp.com to learn more about WSP Smart® and Future Ready® solutions.



WSP Smart™ solutions integrate technology with physical assets to enhance the communities where we live, work, learn and play. Using smart technologies — such as Internet of Things (IoT), sensors, data platforms, robotics and artificial intelligence — infrastructure and industry sectors will have the capability to improve operations using data that was previously unavailable.

Through our industry expertise, resources and insights, we stay ahead of evolving marketplace trends and changing legislation to provide solutions for our clients that enhance existing assets while encouraging sustainable and fiscally responsible development.



Improve the livelihood, health, safety, and quality of life for communities.



Improve business environments, attract investment and make doing business easier.



Support resilience, healthy communities and economic development initiatives.



Drive efficiency and maximize investment by extending the life of infrastructure or shop floor assets using data analytics.

WSP offers full intelligent infrastructure services, from advisory and user profiling, to the collection, measurement and analysis of data, detailed design, contract administration and asset management.

Our Future Ready® problem-solving approach allows us to see tomorrow's challenges more clearly and design solutions for them today. It's an approach that puts people at the center of our design to help develop smart, connected infrastructure solutions in rural and urban communities.

51%

WSP Involvement in
Canada's Largest
Infrastructure Projects
(Renew Canada)

#1

Top Global
'Pure Play' Design Firm
(Engineering-News Record)

50,000+

Experts Worldwide

WSP Smart™ Solutions Engineering and Advisory Services



SMART COMMUNITIES

Aviation & Airports

- Drone detection and active interception systems
- Perimeter fence intrusion detection systems
- Mass notification systems

Rail & Transit

- Perimeter fence and track intrusion detection systems
- Intelligent Transportation Systems (ITS)
- Smart mobility apps

Roads & Bridges

- Video surveillance, analytics and traffic flow monitoring
- Remote inspections
- Advanced Traffic Management Systems (ATMS)
- Vibration and Stress Sensors

Public Spaces, Parks & Recreation

- Dynamic signage
- Wayfinding
- Solar power lighting
- E-Charging stations for electric bikes
- Wi-Fi network design

Safety & Security

- International borders and port of entry
 - Video surveillance and analytic systems, access control and intrusion detection systems, including fence system, border runner video surveillance and analytic systems
 - Hazardous material analysis room systems (Air hood, person down system, video surveillance and analytic systems)
 - Interview room audio and video recording systems
- Emergency Communication Systems
 - Communication system redundancy
 - Backup emergency power
 - Mass notification systems (e.g., security 2-way radios, signage, mobile apps, desktop and VOIP phone sets interface)
- Electronic security and integration
 - Access control systems
 - Video surveillance
 - Biometrics
 - Visitor management systems
 - Smart integration to building systems
 - Access control and intrusion detection systems
 - Perimeter Fence monitoring system
 - Visitor management systems

Water, Wastewater & Utilities

- Perimeter fence intrusion detection systems
- 3D CAD with Smart P&IDs and Building Information Modelling (BIM)
- Effluent monitoring
- Digital Twin and process simulation
- Video surveillance and analytic systems
- Underground tunnel maintenance automation



SMART BUILDINGS

Building Systems & Integration

- Building management systems
- Fire & life safety
- Audio systems
- Energy management analytics
- Occupancy sensors
- Health and wellness monitoring
- Smart parking
- Digital/application-based wayfinding

- Digital signage
- Sustainability and CO2
- Mission critical & data centers
- Distribution archiving and protection, real time location services

Energy & Power Systems

- Energy storage systems
- Renewable power generation (solar)
- Energy management dashboards

Information & Communications Technology (ICT)

- Network systems design
- Structured cabling systems
- Distributed antennae systems
- Visual display systems
- System control rooms and dashboards
- Wireless (Wi-Fi) modeling
- High bandwidth, high speed networking for VoIP
- Point to point wireless network
- Mobile / Cellular data access

Healthcare Buildings

- Duress systems
- Wandering patient system
- Infant abduction system
- Narcotic safe storage and retrieval system

Military, Law Enforcement, & Corrections Facilities

- Drone detection and active interception systems
- Perimeter fence intrusion detection systems
- Corrections grade access control system for prison holding cells
- Interview room audio and video recording systems

Hospitality & Sports Buildings

- User experience optimization
- Frictionless check-in
- Comfort management
- Fire and lifesaving system design
- Mass notification systems



SMART INDUSTRY

Environment

- Weather station data analytics
- Air quality monitoring system
- Noise and vibration monitoring
- Multi-systems data collection and reporting

Manufacturing and Industrial 4.0

- Supply chain security (i.e., CTPAT) compliance assistance

Safety & Security Systems

- Remote inspection
- Remote tampering deterrence and detection
- Mass ingress/egress (bus in/out) access control, remote mustering
- Confined space monitoring
- Video surveillance and analytic systems, access control and intrusion detection systems, including fence systems
- Visitor management systems

Power Generation, Transmission & Distribution

- Hybrid renewable generation (wind, solar)
- Battery energy storage systems (BESS)
- Microgrid systems (On-grid and islanded)
- Distributed energy resource integration
- Infrastructure for transportation electrification
- Energy storage for grid services
- Off-grid monitoring station power system
- Charging stations