



COMPANY PROFILE

2022 / 23

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ARE



WHO WE





SMT is IoT for construction.

We assist:

Construction Firms
Architects and Engineers
Building Managers and Owners
Building Enclosure Professionals
Manufacturers, R&D and QA Programs

Structure Monitoring Technology Research Ltd, commonly referred to as SMT, creates solution sets that are used for electronic leak detection and building envelope monitoring. We utilize near real-time sensor analysis and remote data collection to allow Engineers, Architects, Building Owners and Researchers to validate designs, materials, and methods, producing more efficient and durable buildings. We assist in shrinking environmental impacts by reducing the frequency of unnecessary roof repairs, by providing quality assurance throughout the construction and restoration process.

We have deployed our systems and services across the world, ranging from simple wood frame homes to: glass and steel skyscrapers, shopping centres, heritage buildings, art museums, data centres, and national research labs. SMT fosters award winning scientific excellence in our product lines and services, paired with superior customer care by tailoring each solution to fit every client's needs.

DIGISCAN 360



FLOOD DETECTION



FUTURECAST



INVESTIGATIVE MONITORING

OUR SOLUTIONS



Digiscan 360 Unit



Leaks and penetrations are found on a roof membrane after the first scan

DIGISCAN

Leaders in Electronic Leak Detection.

The Digiscan 360° is an electronic leak detection tool used for waterproofing quality assurance. SMT's uses the Digiscan 360° to scan a roof's membrane using electrical non-destructive testing technology. The Digiscan 360° transmitter is capable of identifying small membrane breaches, insufficient membrane coverage and penetrations, from external sources such as forming nails or embedded rocks. The Digiscan 360° can be purchased as a kit and you can become a certified technician after training for your own business. By scanning before and after the membrane is covered, we create a peace of mind, and stability on the life and integrity of your roof. Digiscan 360° is also approved for ASTM D7877.

45+

Digiscan Technicians

1500+

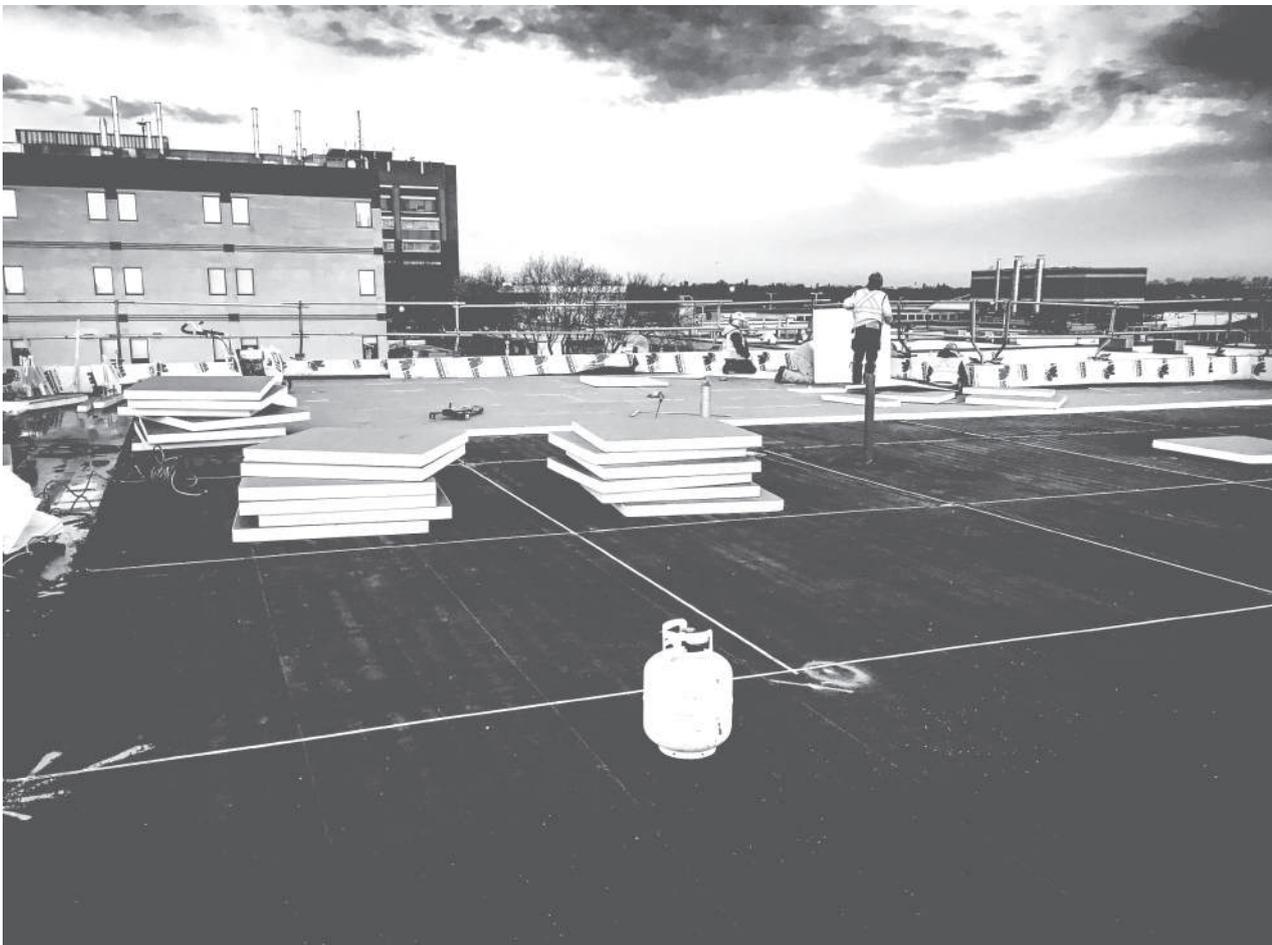
Projects Completed

1 million+

Breaches Detected



FUTURECAST



Our FutureCast system can be used on commercial, industrial, and institutional roofs



■ FutureCast sensors installed in a grid on top of a roof membrane before overburden

Smart monitoring built right into your roof structure.

Our FutureCast membrane monitoring system is a leak detection sensor solution that is installed into your roof assembly on top of your lowest membrane. In the system, moisture detection or leak detection sensors are installed in a grid for conventional roofs or inverted roofs. These sensors monitor for moisture intrusions or membrane breaches across the entirety of the roof assembly, and can show which specific segments are experiencing moisture damage. Results are shown through near real-time analysis by generating reports given to the building operator on a predetermined schedule. FutureCast can be applied to conventional, inverted, low slope, and sloped roof systems with concrete, metal, or wood support systems.

The Roofing Contractors Association of British Columbia (RCABC) accepts SMT Research's system for use in the RGC Waterproofing Guarantee Program. SMT's leak detection and location system is a mandatory requirement for compliance with RGC guarantee standards for waterproofing systems that incorporate heavy or complicated overburdens in their design.

Analytics. Data. Action.

SMT ANALYTICS

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Building Analytics is a Cloud based server that interfaces to our FutureCast and investigation systems.

SMT Building Analytics is the web based user interface that gives you access to data and data analysis from any web browser or smartphone. Monitor trends, check parameters, compare sensors, and make easier decisions, our Building Analytics software lets you do it all.

For manufacturers, researchers, building science practitioners, the most value added portion of our system is our cloud based Building Analytics.



Monitor trends to determine the cause of a problem or predict the rise of a risk.



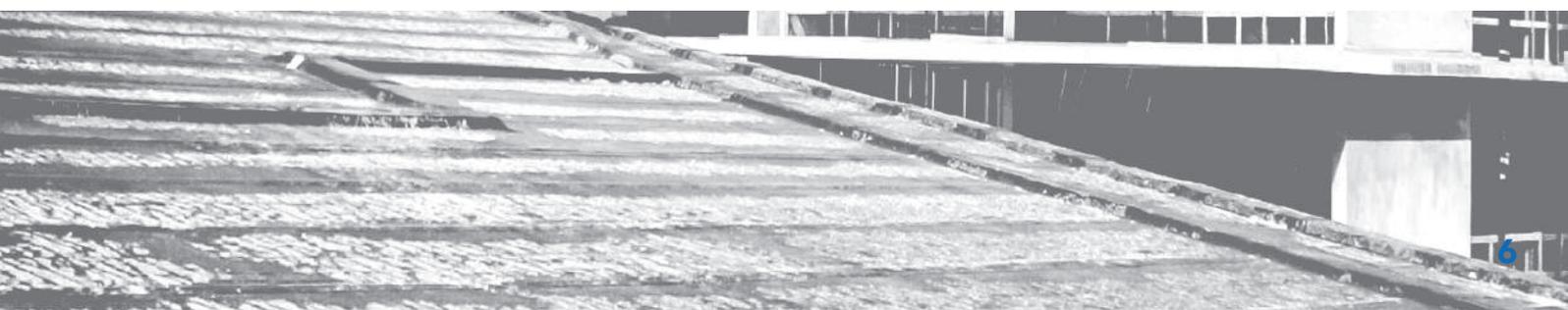
Fix the problem as soon as you are alerted to avoid future disaster, extending the life of your asset.

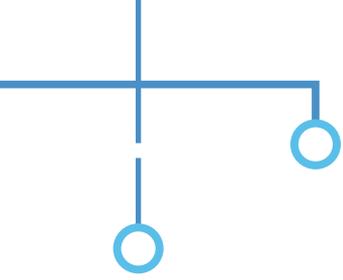


Check parameters throughout the entire life of your asset



Pinpoint the exact location of the leak or condensation.

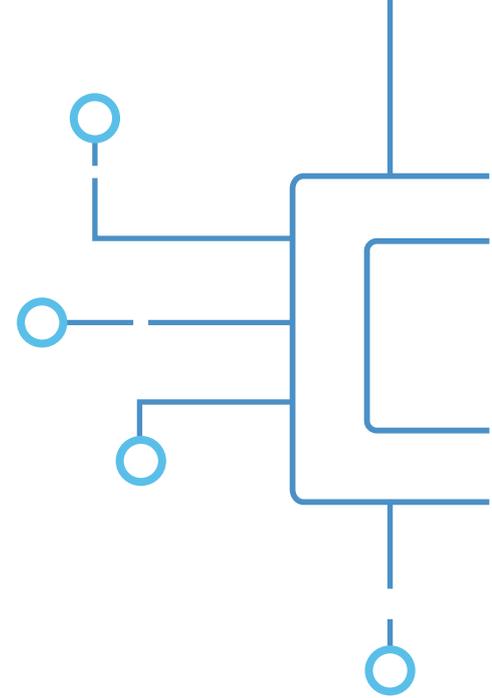




INVESTIGATIVE MONITORING



■ A collection of SMT investigative & moisture devices



Helping you make intelligent decisions with our intelligent devices.

SMT Research provides investigative monitoring, which consists of sensors and electronics with measurement analytics manufactured by SMT that are installed during or after construction, to observe and monitor other variables like humidity or temperature within the building enclosure. Using on-site data acquisition, the sensors forward the data to Building Analytics, our cloud based server for analysis. Our investigative monitoring systems observe the building over time, revealing moisture accumulations, temperature changes, humidity levels and other factors that threaten the structural integrity.



■ Point Moisture Measurement



■ Moisture Detection Sensor

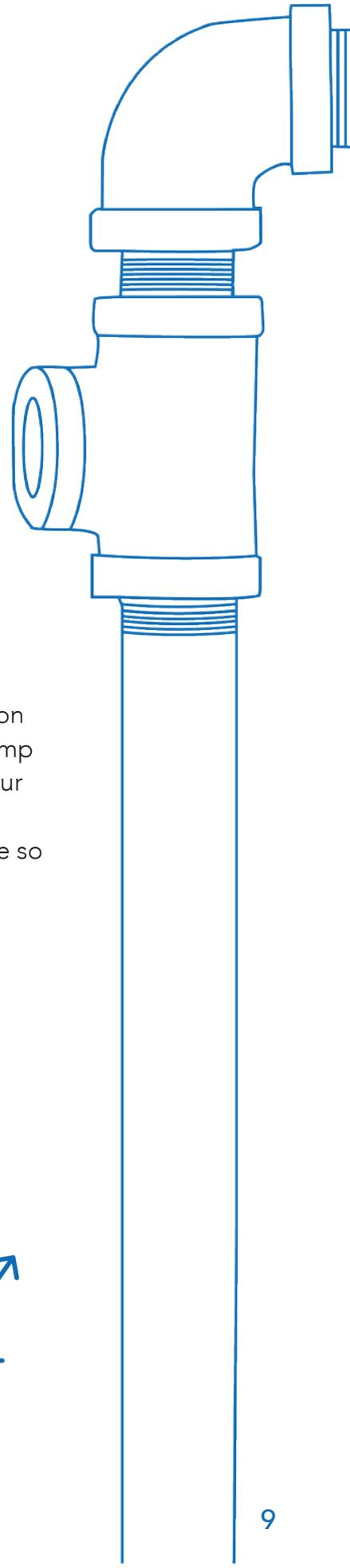
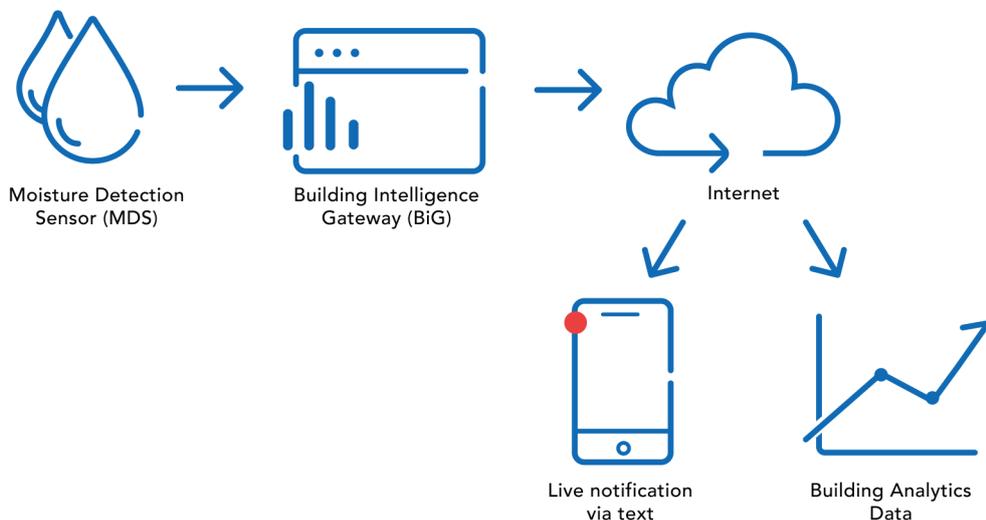


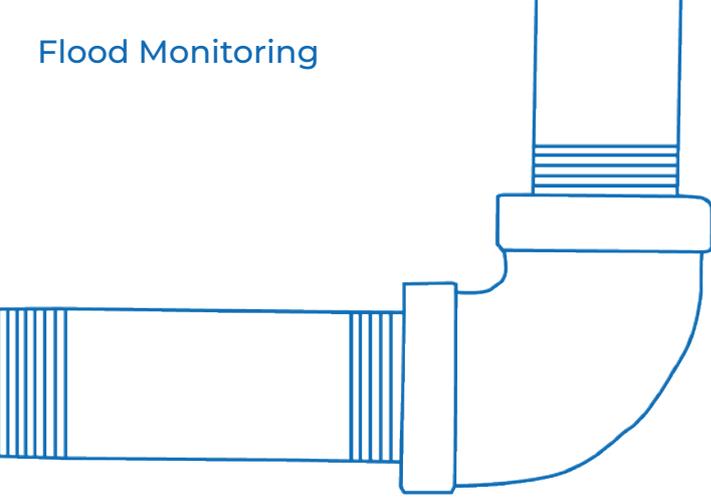
■ A3 Datalogger Unit

FLOOD MONITORING

Avoid your worst nightmare

Our flood monitoring solutions detect water from leakage or condensation from damaged or frozen pipes, aging hot water tanks, malfunctioning sump pumps, open plumbing fixtures, sewer back-ups, and exterior sources. Our integrated temperature sensors detect where plumbing could sustain damage from low temperatures. These systems give you advanced notice so that the damage can be minimized before it becomes detrimental.





Simple solutions for complex water problems.

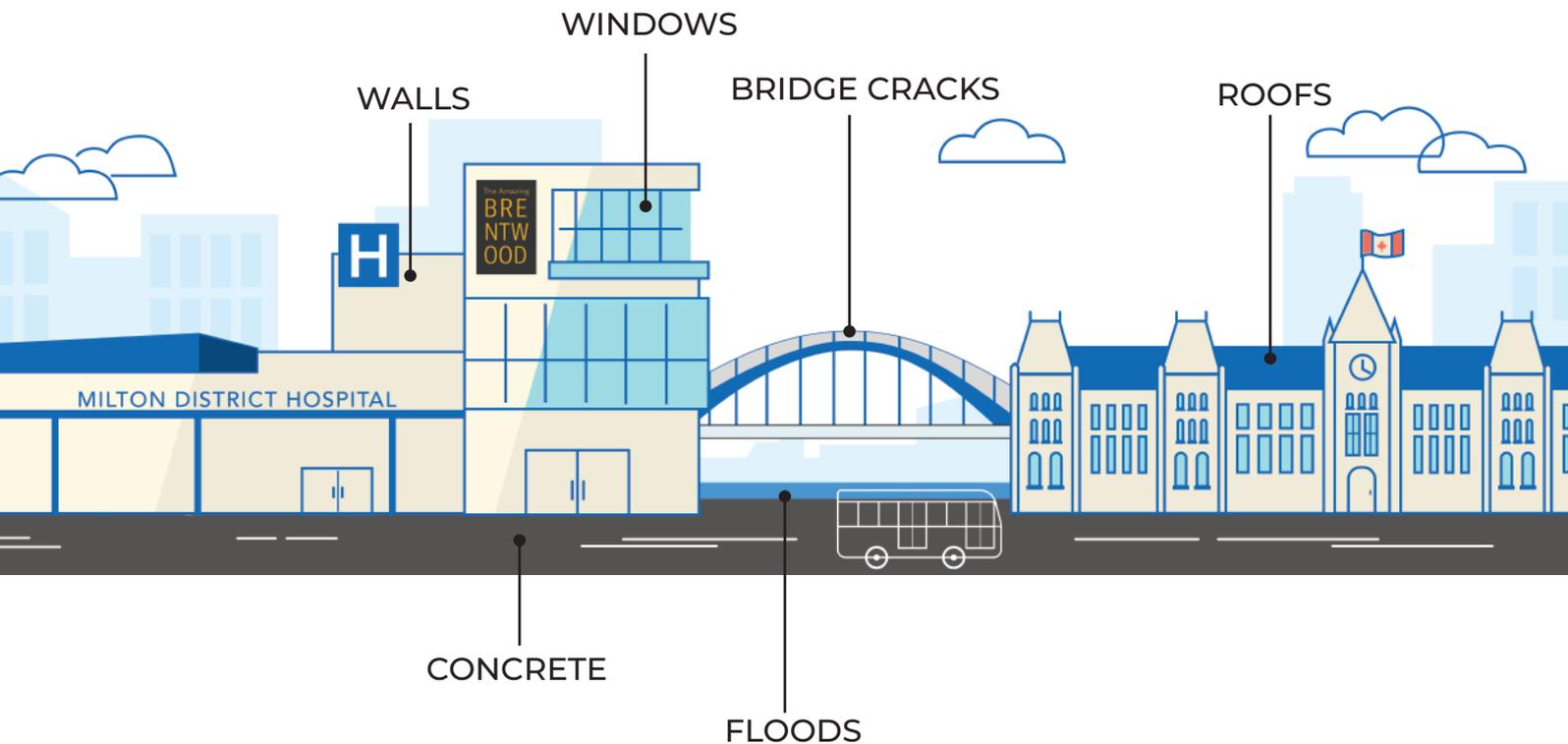


On-site monitoring is achieved through our unique wireless digital systems. These systems can be installed both during and after construction. The data gathered through these sensors will be communicated wirelessly to the Building Intelligence Gateway, which will then notify the user if necessary. This allows for facility management teams, owners, and emergency response restoration contractors to be proactive and address the situation at the very beginning.

WHERE WE MONITOR

Giving you a peace of mind.

SMT predominantly monitors your roofs, walls, windows, and foundations in commercial, residential, and institutional projects. However, we are consistently participating in innovative research projects for our sensors to be used in new areas of concerns, such as bridge crack monitoring, wood moisture monitoring, concrete moisture monitoring, and more. SMT sensors can be used for a variety of projects, tailored for each client if possible.



WHERE WE WORK

All of our solutions can be used on various products, so contact us if you have an inquiry for a future project.



Photo credit - Dailyhive.com

COMMERCIAL & MIXED USE

SMT has been engaged with many mixed use and commercial projects. Signature projects include Oakridge Mall, The Post, and The Amazing Brentwood.

Instead of having to close down business due to water damage and extensive roof repairs, building owners and retail operators benefit from having that peace of mind that their high value monetary assets will be protected by SMT's leak detection systems and services.

RESIDENTIAL

Jubilee House, The Creek

Active roof leaks in homes are a headache for both the building owner and the tenants that live there. SMT has installed electronic leak detection services into residential properties allowing targeted roof repairs for minimal disruption to tenants, and minimal repair or relocation costs to building owners.

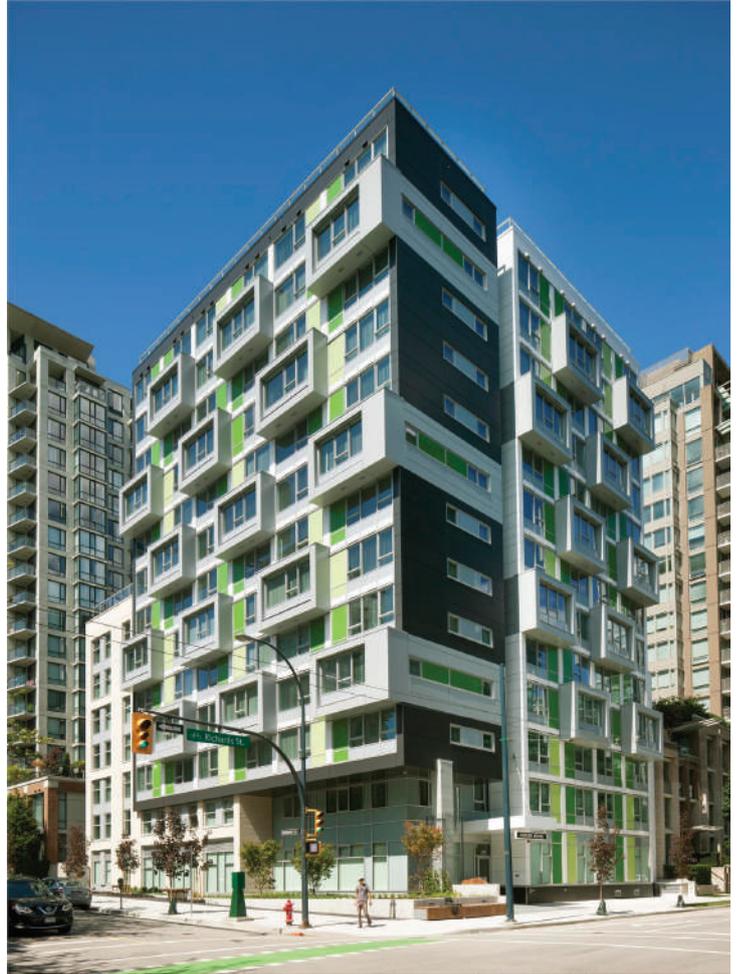


Photo credit; MetroCan.com



Photo credit; Wikipedia

INSTITUTIONAL

Canada Parliament Buildings

Institutional buildings shouldn't be stopped by roof leaks, as their work directly affects thousands of other people's livelihoods. Which is why large institutions contact SMT to make sure their work isn't interrupted by extensive leaks, leak investigations or unnecessary roof repairs.

HISTORICAL

Tomb of Jesus

We help protect some of the world's most valuable assets, our history. SMT monitors many historical buildings' structural health before, during and after modernisation work to ensure they are preserved for generations to come.



Photo credit; Sebastian Scheiner

MISSION CRITICAL

Bell MTS Data Centre

Mission critical buildings house important high level assets that can be permanently ruined by even the smallest roof leak. SMT works with clients who have critical assets below their roof to ensure they are notified as soon as possible about a leak in their building.



Photo credit; MCW Consultants Ltd

Let's talk about your next project.

Contact Us

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