



REALITY CAPTURE SERVICES

3D LASER SCANNING, RPAS DRONE SURVEYS,
GROUND PENETRATING RADAR

— A proud member of —

Canadian Council for
ABORIGINAL
BUSINESS



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WELCOME TO ALLNORTH

Big enough to know *how*, and small enough to know *you*.



Allnorth is a multi-disciplinary engineering, project delivery, and construction services company. Our clients are in the metals and minerals, energy and renewables, fiber and chemicals, and infrastructure sectors. With offices across Canada, and into the US and Mexico, we provide a single point of contact for clients seeking smart and practical solutions for their project needs.

Operationally, we empower our people at all stages of their professional development to identify ways to drive innovation, forge and nurture client relationships, and optimize business performance. We recognize the importance of an engaged team, working proactively to enrich the lives of our clients, the team spirit among work colleagues, and the communities in which we work.

REALITY CAPTURE SERVICES

Allnorth's reality capture team utilizes the best available technology at every step of their work flow - from the instruments used in the field to the software and process used in the office.

Our services include:

- 3D Laser Scanning
- RPAS (Remotely Piloted Aircraft Systems) drone surveys
- Survey
- Ground Penetrating Radar
- Line Locates

Allnorth has the tools and software technology to integrate and combine all reality capture technologies into one cohesive model for each unique project.



3D SCANNING

Allnorth operates a fleet of the latest, best-in-class 3D laser scanners from Leica Geosystems.

3D scanning is an efficient and effective way to document a project. Significant cost savings can be realized by using it and avoiding potential issues that would otherwise lead to re-work and delays.

While cost savings will be most heavily realized in the detailed design phase, the risk of unknowns is decreased by incorporating 3D scanning early on in the project.

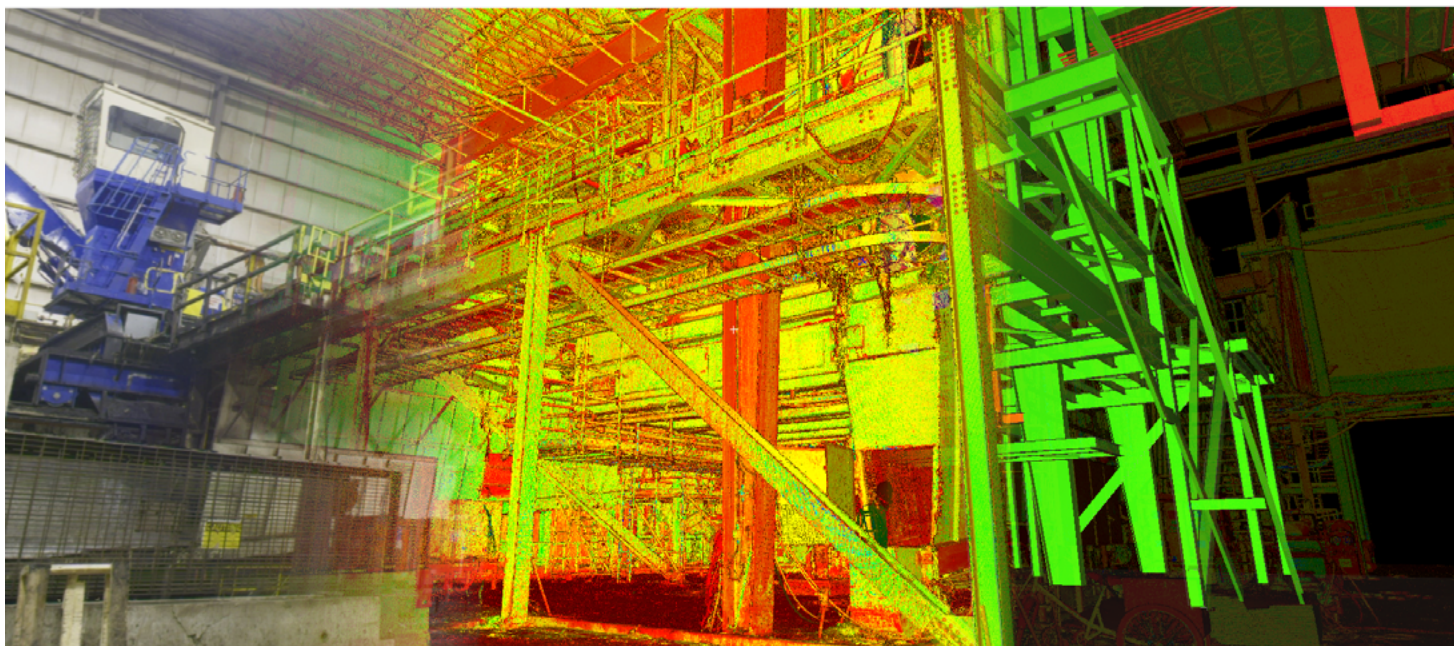
One visit to site is typically sufficient to support a project from concept through to detailed design.

Key Services:

- Full facility as-builts
- Project-specific scanning (piping, structural projects)
- Underground mine scanning
- Floor flatness analysis
- Movement monitoring
- Stockpile volumes
- Fabrication/construction verification
- Design/interference checks
- Crane lift plans

Key Benefits:

- Decreases construction cost by optimizing shop vs. field fabrication
- Allows field measurements otherwise unsafe or inaccessible with conventional measurement tools
- Increased efficiency of design
- Provides excellent visibility into a project design for operations, maintenance and construction
- Reduces construction costs. Clarity of design and field fit with minimal interferences



RPAS (DRONE) SERVICES

RPAS (Remotely Piloted Aircraft Systems) technology is constantly evolving. Allnorth operates a fleet of fixed- and rotary-wing vehicles to carry a variety of sensors with specific capabilities.

Key Services:

- LiDAR topographical surveys (LiDAR can penetrate dense foliage)
- Photogrammetry topographical surveys (photogrammetry is best suited to zero/negligible foliage)
- Stockpile and excavation as-builts
- Bridge inspections (via onboard camera)

Drones can access areas deemed unsafe or inaccessible for people, autonomously collecting data within the desired area.

Whether LiDAR or photogrammetry, a drone will collect massive amounts of information in a short period of time.



GROUND PENETRATING RADAR

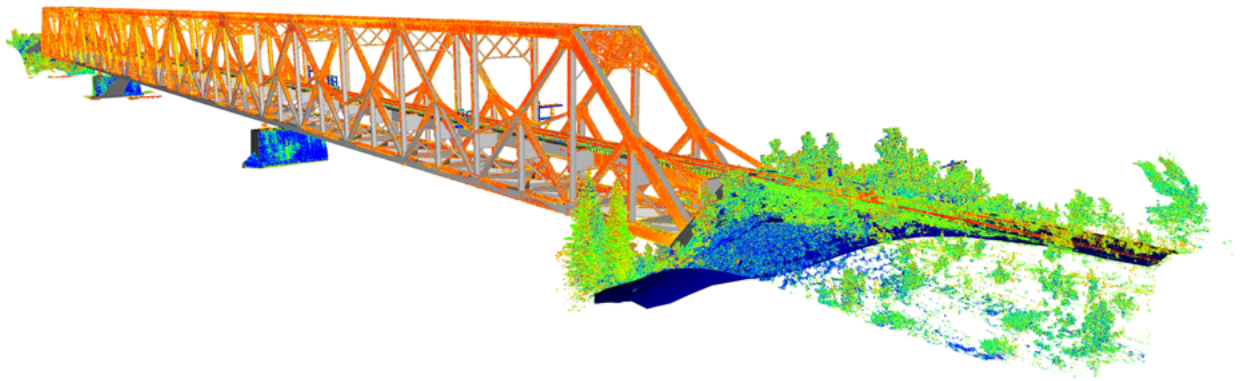
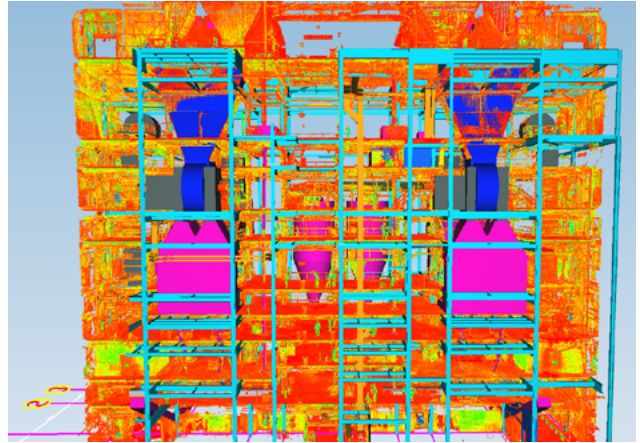
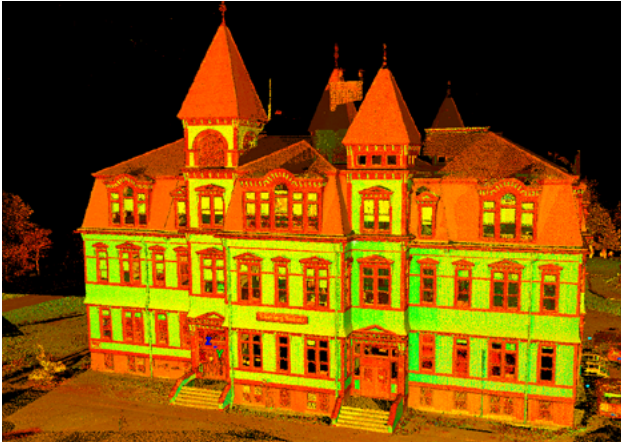
Ground Penetrating Radar (GPR) can be used to locate and map subsurface utilities, accurately inspect concrete structures and collect 3D data in those structures.

We provide GPR service applications for several industries including civil (highways, municipal, road, bridge), industrial facilities and commercial (garages, parking decks, balconies).

Key Services:

- Concrete inspection
- Road inspections
- Geological investigations
- Community consultation





ALLNORTH SERVICES

Engineering Services

- Civil
- Electrical & Instrumentation
- Environmental
- Mechanical
- Process Engineering
- Structural Engineering

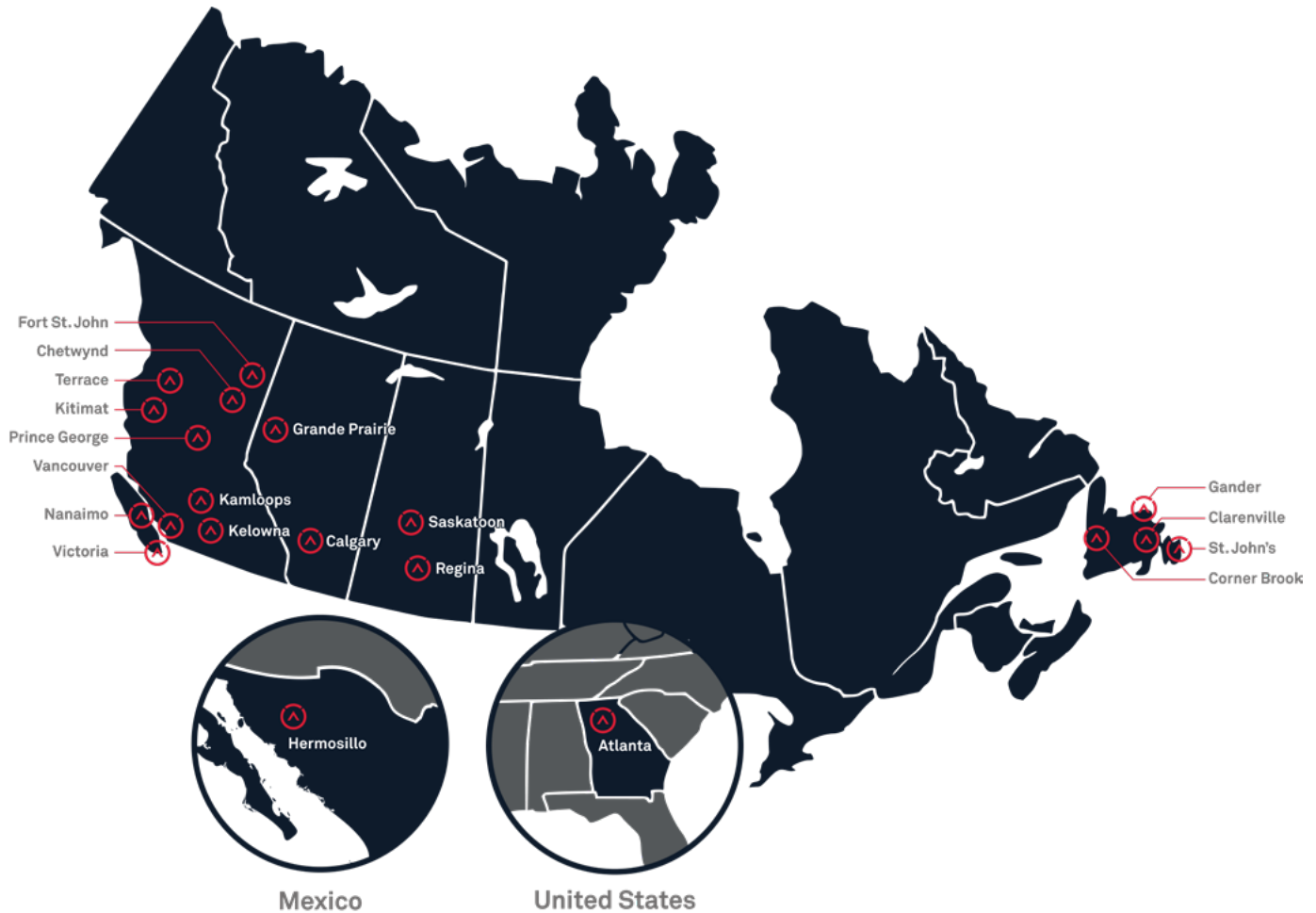
Construction Services

- Geospatial & Geographic Information System (GIS)
- Materials Testing
- Reality Capture Services (3D Scanning, RPAS, Ground Penetrating Radar)
- Surveying

Project Delivery Services

- Commissioning, Turnover and Operational Support
- Health, Safety and Environment
- Procurement
- Project and Construction Management
- Project Controls
- Quality Control and Assurance

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