

## USE CASE

# Teranet's Journey Towards Accuracy in Land Registry and Mapping

**TERANET INC.** is Canada's leader in the delivery and transformation of statutory registry services with extensive expertise in land and commercial registries. It also provides insightful property intelligence and data solutions to thousands of customers in the real estate, financial services, government, utilities and legal markets. Delivering critical property data from the most authoritative source of parcel mapping, title data and document images, their solutions connect customers to authoritative land registry and land-related data with location intelligence capabilities. Teranet has deep experience and a strong reputation as a trusted partner in providing secure end-to-end registry services, real estate data, and legal practice management solutions.



**TERANET**

RELIABLE DATA +  
INSIGHTFUL SOLUTIONS

## PROJECT SCOPE AND OBJECTIVE

As part of the Base Index Mapping (BIM) Improvement Project the focus was rectifying misalignments between GIS datasets. Misaligned datasets can make it challenging for users to interpret and understand the results of spatial queries, leading to confusion and frustration. By aligning Assessment and Crown parcels with Ownership parcels or township limits, the initiative aimed to maintain a shared positional accuracy. This endeavor is crucial for supporting strategic decision-making and operational efficiency across various applications in real estate and infrastructure development through a combination of datasets with a shared position.

## CHALLENGES

**MISALIGNMENT ISSUES:** GIS data misalignment led to inaccuracies impacting spatial analyses, hindering planning, and operational responses. Variability in property boundary position between datasets raised questions surrounding reliability.

**INTEROPERABILITY AND COMPLIANCE:** Disparate datasets caused interoperability issues, raising legal compliance risks and increasing costs for data rectification.

## WHY TERANET ENGAGED MNC

**EXPERTISE IN GIS SOLUTIONS:** Teranet engaged MNC due to their proficient handling of complex GIS data alignment, essential for rectifying existing discrepancies and supporting seamless data operations.

**COMPREHENSIVE AND TAILORED SOLUTIONS:** MNC, an Esri Gold Partner, provided a customized approach using Esri (ArcGIS Pro), collaborating with Teranet, an Esri Silver Partner, to adhere to established data hierarchy and attribution rules.

## Teranet Inc. Overview

### COMPANY SIZE

As a major player in the land registry industry, Teranet operates on a large scale, equipped with advanced technology and a skilled workforce.

### BUSINESS MODEL

- **CORE OPERATIONS:** Managing Ontario, Canada's Electronic Land Registration System (ELRS), including maintaining complex parcel data to support seamless transactions.
- **SERVICE PROVISION:** Extends mapping services and data solutions to enhance decision-making for real estate, financial services, government, utilities, telecommunications, and legal markets.

### TERANET'S LAND REGISTRY, PROPERTY INTELLIGENCE AND DATA SERVICES GOALS

- **DATA ALIGNMENT:** Ensure precise alignment and integration of GIS datasets with ownership parcels to support accurate property assessments.
- **SERVICE ENHANCEMENT:** Enhance the reliability and usability of datasets for broad applications ranging from infrastructure planning to legal compliance.



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## MNC'S SOLUTION FOR TERANET

MNC delivered Property Index Map Upgrade Services, employing sophisticated GIS tools to align datasets accurately with ownership parcels, thus maintaining data integrity and usability.

### IMPLEMENTATION PROCESS

- The project entailed comprehensive data reviews, collaborative assessment, and agreement on data rules.
- Effective project management practices ensured coordination with all stakeholders, keeping the project on schedule and within budget.
- Adjustments were implemented regionally, delivering parcel data in bundles based on geographic segmentation, adhering to Teranet's parcel schema.

### RESULTS

**COMPREHENSIVE IMPROVEMENT:** Teranet witnessed substantial advancements in dataset alignment and service provision, strengthening its role as the go-to data provider for Ontario.

**SUSTAINABLE DEVELOPMENT AND EFFICIENCY:** Successful data alignment promoted sustainable development initiatives and improved service delivery, ensuring data-driven and compliant decisions.



*"MNC's expertise has resolved complex data alignment issues and prepared us for future parcel mapping challenges. MNC's tailored solutions and strategic insights have significantly improved our service delivery, ensuring that our Ontario Parcel information remains reliable. Their commitment to excellence resonates well with our goals at Teranet, making this collaboration a key component of our success."*

-DAVID HENDRY, TERANET - SENIOR MANAGER ONTARIO PARCEL

## IMPACT

### IMPROVED DATA INTEGRITY

The project enabled the establishment of aligned, high-quality datasets, enhancing utility for stakeholders and support for informed decision-making.

### CLIENT AND USER SATISFACTION

By providing accurate and custom GIS solutions, the project improved outcomes for end-users and client operations, reflecting positively on service delivery.

### ENHANCED OPERATIONAL EFFICIENCY

Precise alignment of datasets led to better resource allocation, reduced corrective costs, and optimized operations, bolstering service efficiency and effectiveness.

### IMPROVED CUSTOMER OUTCOMES AND RISK REDUCTION

The streamlined data alignment process minimized customer error reports, risks, and compliance issues, leading to significant long-term customer satisfaction through a maintained alignment of datasets, providing a single version of property positions.

#### ABOUT MNC

The Cadastral and Parcel Mapping Experts

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Martin Newby Consulting Ltd. (MNC) is a leading geospatial firm with over 25 years of expertise in cadastral and parcel mapping. As an Esri Gold and Cornerstone Partner with a Parcel Management Specialty, we deliver advanced GIS solutions using ArcGIS Pro, FME, Bentley, and AutoCAD. MNC partners with FME and Alberta Data Partnerships to provide scalable, integrated services that enhance operational efficiency and data quality across Canada, the USA, and the Caribbean. Our proven track record, customer-focused approach, and commitment to innovation make MNC the trusted choice for precise, impactful parcel management.