

DATA MODELLING & DATABASE DESIGN

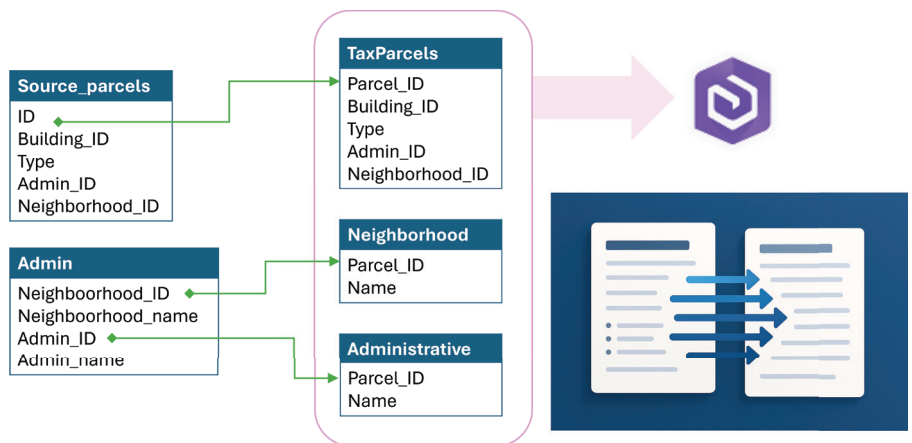
# Power Your Land Decisions with a Custom, Compliant Data Model

## The Challenge:

- **Siloed, outdated, or poorly structured data** leaves agencies vulnerable to errors, inefficiency, and compliance risk.
- Cadastral and ownership record-keeping demands **secure, auditable, and future-proof solutions**.

## How MNC Helps:

We design and deploy **spatially enabled databases**, leveraging **GeoAI, ArcGIS Enterprise, PostGIS**, and industry best practices to ensure that parcel, rights, and ownership information is structured, traceable, and actionable. Our GeoAI integration enables **advanced spatial analytics, automated feature extraction, and predictive modeling** for dynamic land management and intelligent insights.



## Key Service Features:

- **Data model requirements/specification**
- Selection and configuration of **optimal GIS** database platform
- **Secure schema design** (integrity, legal validity, granularity)
- **Performance**, query, and reporting optimization (accelerated through GeoAI algorithms)
- **Full technical documentation** & change management preparation

## Values & Outcomes:

- ✓ **Optimized data structure** to support land administration requirements and GeoAI applications.
- ✓ **Enhanced data integrity**, reliability, and traceability supported by GeoAI-powered validation.
- ✓ **Improved operational efficiency** and system performance.
- ✓ **Future-ready scalability** for growth and evolving demands, including new GeoAI capabilities.
- ✓ **Compliance with industry, technical, and regulatory standards.**
- ✓ **Greater data security**, privacy, and audit capability.
- ✓ **Reduced maintenance burden** and cost through intelligent GeoAI automation.
- ✓ **Increased stakeholder and public confidence** in official records.

## Why MNC?

With MNC, **your data model works for you** today and as your needs grow.



Build your foundation for future-ready land management.  
**Book a data design consultation with MNC today.**

+1 (403) 294-1028  
mnc@mncl.ca | www.mncl.ca

**ABOUT MNC**  
The Cadastral and  
Parcel Mapping  
Experts



MNC is a trusted leader in cadastral and parcel management with 25+ years of experience delivering GeoAI-ready datasets, modernizing parcel fabrics, and automating GIS workflows. As an Esri Gold and Cornerstone Partner with a Parcel Management Specialty and State and Local Government Specialty, MNC provides scalable advanced GIS, ArcGIS Pro, FME automation, MicroStation, AutoCAD and cloud-ready geospatial systems that improve data quality and support government land administration modernization across Canada, the USA, and the Caribbean.

