



MNC GIS Modernization Partnership: Transition from ArcGIS Desktop to ArcGIS Pro

In response to the evolving geospatial technology landscape, a leading information management organization in the Canadian Prairies initiated a modernization of its GIS environment. The organization aimed to future-proof its land management systems by transitioning away from ArcGIS Desktop, which will reach end-of-support from Esri as of March 1, 2026.

In addition to preparing for this transition, the organization also sought to replace custom-built

components with commercially available off-the-shelf (COTS) solutions, ensuring greater reliability, scalability, and reduced maintenance overhead.

MNC (Martin Newby Consulting Ltd.) was contracted to support this modernization initiative, providing technical leadership and implementation support for the migration to a newer Esri platform built on ArcGIS Pro.



ArcMap



ArcGIS Pro

CHALLENGE

The client's legacy GIS environment, centered on ArcGIS Desktop, faced growing limitations in performance, usability, and vendor support.

KEY CHALLENGES INCLUDED:

- Imminent end-of-support for ArcGIS Desktop from Esri, **requiring a complete platform migration.**
- **Dependence on custom-developed tools** that were expensive to maintain and lacked vendor backing.
- **The need for a stable, modern, and industry-supported GIS foundation** to reduce long-term technical debt.

To continue delivering accurate, efficient, and reliable land management services, the client required a forward-looking platform built on proven technologies.

SOLUTION

MNC partnered with Silvacom CS and the client to guide the transition to a modern GIS system using **Esri's ArcGIS Pro** platform. This collaborative project focused on data migration, technology replacement, and aligning the GIS environment with industry standards.

KEY STEPS IN THE SOLUTION:

PLATFORM TRANSITION & DATA MIGRATION:

- Migrated GIS operations and datasets from ArcGIS Desktop to ArcGIS Pro.
- Customized the data model to ensure continuity and compatibility with modern workflows.

COTS INTEGRATION:

- Replaced legacy custom software elements with supported COTS components.
- Streamlined GIS operations while reducing the need for ongoing custom development.

MODERNIZATION PLANNING & SUPPORT:

- Delivered modernization guidance to align system functionality with long-term goals.
- Provided knowledge transfer and technical support to facilitate adoption of the new platform.

RESULTS

The client now operates a streamlined and future-ready GIS platform based on ArcGIS Pro.

KEY BENEFITS INCLUDE:

- **Enhanced performance** through 64-bit processing.
- **A modern, intuitive interface** with advanced 3D visualization and dynamic layouts.
- **Seamless integration with ArcGIS Online and ArcGIS Enterprise** for greater collaboration and accessibility.

- **Reduced reliance** on custom development using scalable, supported COTS components.
- **A stable, well-supported system** aligned with industry standards and positioned for future growth.

This modernization project provides a replicable path for organizations seeking to transition from legacy GIS environments to a more efficient, scalable, and sustainable platform.

MNC SERVICES & TECHNOLOGY USED

SERVICE CATEGORIES:

- Parcel Fabric
- Needs and Requirements Analysis
- GIS Strategy and Planning
- Data Model and Database Design
- Data Conversion and Migration
- Training and Support Services
- ArcGIS Pro Migration
- Digital Plan Submission
- ArcGIS Services
- Geospatial Development

TECHNOLOGY PLATFORM & TOOLS:

- ArcGIS (Esri)
- FME (Safe Software)
- AutoCAD (Autodesk)



CONTACT US TODAY to discuss your geospatial needs.

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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.

