



CADASTRAL & PARCEL MAPPING

Rising property values and rapid development make accurate and timely parcel mapping increasingly important. While the concept of parcel mapping goes back to ancient China, Egypt and Babylon, the colonial development of North America land ownership was tracked by deed and surveys. In contrast to deeds and metes and bounds descriptions, parcel mapping clearly indicates where a property is located relative to adjacent properties and public ways.

Parcel mapping provides a convenient resource allowing the public to identify and locate their property while permitting Planners, Assessors, Engineers and others to plan and evaluate zoning compliance, tax assessment, expansion of utilities and transportation, and overall layout at a subdivision level. Information can be readily shared between professions and with the public; significantly improving communications and reducing potential conflicts.

Parcel maps should accurately reflect the size and shape of each individual parcel. Geometric and geographic accuracy enhances the value of maps and the credibility of organizations working with those maps. Parcel maps have an important role in planning, engineering and environmental analysis, and are an important component of GIS. Data from accurate maps can be overlaid and combined as needed, increasing the value of data from each map set. When information is presented in a GIS, the public tends to accept it as fact; based on the inherent visual "truthfulness" of maps and on trust in information generated by computers.

In contrast, if a key data set such as parcels obviously does not fit other layers such as aerial photography, it sows doubt on the entire effort. Map inaccuracies reflect poorly on the credibility of related data, the decisions made using that data, and on the organization as a whole. Functionality and value to the organization are reduced as data from various sources can no longer be combined; as they will no longer "fit" or overlay properly. Costs and delays rise significantly as on-site inspections and/or field surveys are required if there is to be any confidence in the maps. Ironically, this new accurate field survey data often isn't used to increase the accuracy of the area of the cadastral map because the process of adjusting the map base is too time consuming and expensive. Historical inaccuracies are often carried forward, leading to future problems and conflicts.

The challenge with developing highly accurate maps has been the "all or nothing" approach to map accuracy; leading to high initial costs and long delays before maps are ready for use. MNC has resolved these problems: the unique MNC approach consistently provides cost effective solutions, quickly delivering business value with minimal capital cost. Data conversion and data quality are initially addressed on an as-needed basis allowing real business value to be delivered very quickly. Maps are automatically adjusted to fit newer, high accuracy information as it arrives over time. Map quality improves most rapidly in areas of highest activity.

MNC can receive data in any standard format and the processed data can be returned in any format - providing unparalleled flexibility. Data sets become more accurate and consistent over time; easing the path for any future upgrades or system conversions of the mapping system and/or GIS. Our solutions focus on a seamless fit with the client's organization; the points that cause problems will be resolved, with good data flowing smoothly back into their systems and processes. MNC can reduce clients' costs while supporting their ability to deliver improved services and improving data quality.