

**SanGIS Mission**

To maintain and promote the use of a regional geographic data warehouse for the San Diego region and to assist in the development of shared geographic data and automated systems which use that data.

**Quick Facts**

- Created in 1997
- City & County of San Diego JPA
- Annual Budget of \$1.5M
- 13 Staff
- 450+ geographic data layers
- 700+ City & County users
- 2200 unique Public users performing over 44,000 annual data downloads
- 1.4M monthly website hits for GIS information at [www.sangis.org](http://www.sangis.org)

Unmatched landbase maintenance and data warehousing systems

Data sharing is innovative but underutilized - T1 capacity exists for new partners

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**About SanGIS**

The San Diego Geographic Information Source (SanGIS) is a Joint Powers Agency (JPA) of the City of San Diego and the County of San Diego that was created in 1997 as a formal continuation of the previous and similar 13-year old Regional Urban Information System (RUIS). Since inception, SanGIS has been charged with, and has accomplished, a number of GIS and business goals.

**Initial Goals**

- Formalize City/County GIS Partnership
- Establish a regional data warehouse
- Centralize & control landbase maintenance
- Centralize, standardize, reduce data redundancy
- Cost-effective public access to GIS
- Establish strategic partnerships
- Increasing funding from other sources
- Continue to advance the use of technology

**Three Business Domains**

**Regional Landbase Maintenance System**

- Maintain 99% accurate landbase
- Maintain landbase current to Assessor
- Backup & secure geographic databases
- Utilize appropriate technologies

**Regional Geographic Data Warehouse**

- House & host regional GIS layers
- Employ appropriate IT architecture
- Engage in partnerships & outreach to encourage data sharing, ownership & data warehouse publishing

**Regional Geographic Information Services**

- Low/no-cost member access to entire GIS warehouse via dedicated servers & T1 networks
- No-cost public access to non-sensitive data
- Low-cost, one-stop access to maps & GIS analysis products
- Accessible/innovative access to SanGIS data

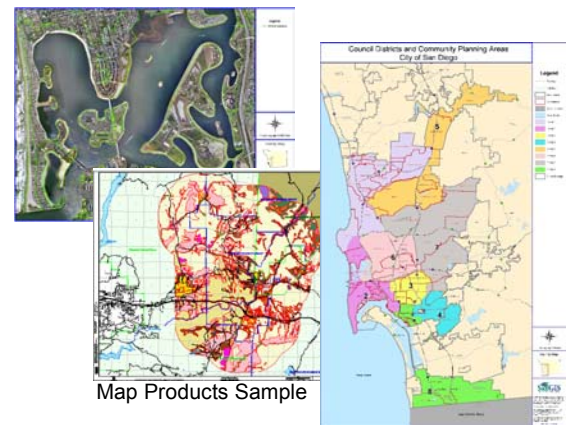


**Members**

The City of San Diego and the County of San Diego are SanGIS's key and sole funding members.

**Business Partnerships**

To meet its goals and needs, SanGIS coordinates with other cities, agencies, public and private, and professional groups, in and out of the San Diego region. SanGIS further accomplishes its mission with a host of industry-leading business partners, including City and County of San Diego, SANDAG, other local agencies, ESRI, Quartic Solutions, Eagle Aerial Imaging, Thomas Bros. Maps, Network Solutions, AT&T, SDDPC, and others.



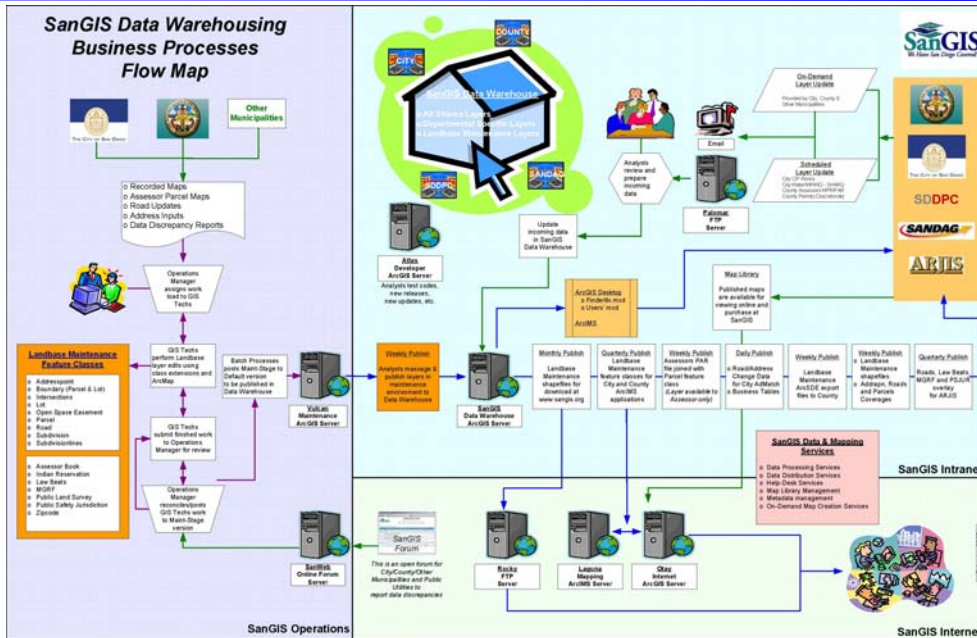
**What is the Landbase?** The landbase is comprised of the Assessor land record and regional roads network. Land records encompass features of lots, parcels and open space easements. Road network encompasses features of road centerlines, intersections and addresses.

**What is GIS?** GIS is a collection of computer hardware, software, and geographic data for capturing, managing, analyzing, and displaying all forms of geographically referenced information. See [www.sangis.org](http://www.sangis.org) and [www.GIS.com](http://www.GIS.com) for more about GIS.

**SanGIS Supports Dynamic GIS**

- SanGIS-maintained and warehoused data supports a wide range of GIS applications:
- Environment
  - Engineering
  - Homeland Security
  - Land Development
  - Life Safety
  - Planning
  - Recreation
  - Transportation

# SanGIS: Supporting City, County and San Diego Regional GIS



## Expert Team, Expert Systems

SanGIS employs a complex data model in its regional landbase maintenance system (LMS). The model maintains numerous feature classes and business tables programmed and stored in Oracle, and utilized through an ArcSDE gateway. Software has been designed to enable editing of the LMS through a host of class extensions which are applied to the feature classes. The class extensions ensure the required data integrity. Data quality is further guaranteed through purpose-built toolbars. A highly-evolved set of scripts and geoprocessing objects are then employed to provide ongoing landbase and GIS data updates to operational, member-shared, and public server environments.

SanGIS Data Warehousing Business Processes Flow Map

## SanGIS Future...

Through internal, member and peer review of SanGIS's internal and external processes, opportunities for improved business and GIS were recently realized, bringing significant improvements. These same process also anticipate greater regionalized utilization of SanGIS as the San Diego regional GIS source that its mission has long defined. Meanwhile, SanGIS is actively pursuing internally-driven enhancements, new partnerships, plus new GIS and other services.

## SanGIS Evolution

For over 23 years the City and County of San Diego have successfully worked together on the development of Geographic Information Systems (GIS) and sharing of geographic data. Commencing 1984 with the Regional Urban Information System (RUIS) project, the partnership was a ten-year agreement between the City and County to develop a regional GIS. Through RUIS, a regional GIS landbase was created that today contains over 150,100 road segments and 983,000 parcels. RUIS successfully implemented a number of mapping standards and procedures through the cooperation of multi-department committees. GIS maintenance and analytical tools were developed and a distributed network was installed to facilitate access to both the centralized

and distributed geographic databases.

Rooted in the desire to formalize and continue this RUIS-learned success, the City and County again committed to a common GIS by forming SanGIS. SanGIS's creation was recognition of the importance of GIS standards and GIS data centralization, in order to minimize data redundancy and errors, and to improve access to data in order to support citizen services and business goals. As it was realized years ago, and is never more true than today, the use of GIS and related data are critical to decision-making in a broad cross section of government and non-government functions. With accessible, accurate, and current data available through SanGIS, a wealth of functions are able to succeed.

