

Geographic Information Systems (GIS)

Geographic Information Systems or GIS is a system of computer software, hardware and data, and technical expertise to help manipulate, analyse and present information that is tied to a spatial or geographical location. Simply put, GIS combines layers of information about a place to give you a better understanding of the place. What layers of information you combine depends on your purpose — finding the best location for a new store, analysing environmental damage, viewing similar crimes in a city to detect a pattern, and so on.

SAINS develops GIS product to provide services to government and private organisations with user needs for data requirements analysis, systems and database design, applications development and implementation of Geo-Spatial and related spatial technologies. Other services also include training and developing custom Geo-Spatial applications and solutions integrating databases, imagery, GPS, CAD, LIS, World Wide Web and other state-of-the-art tools and technologies.



WHY USE GIS ?

Improve Organisational Integration

One of the main benefits of GIS is improved management of your organisation and resources. A GIS can link data sets together by common locational data, such as addresses, which helps departments and agencies share their data. By creating a shared database, one department can benefit from the work of another—data can be collected once and used many times.

Make Better Decisions

The old adage “better information leads to better decisions” is true for GIS. A GIS is not just an automated decision making system but a tool to query, analyse, and map data in support of the decision making process. For example, GIS can be used to help reach a decision about the location of a new housing development that has minimal environmental impact, is located in a low-risk area, and is close to a population centre. The information can be presented succinctly and clearly in the form of a map and accompanying report, allowing decision makers to focus on the real issues rather than trying to understand the data.

Mapping Facilities

Making maps with GIS is much more flexible than traditional manual or automated cartography approaches. A GIS creates maps from data pulled from databases. Existing paper maps can be digitised and translated into the GIS as well. The GIS-based cartographic database can be both continuous and scale free. Map products can then be created centered on any location, at any scale, and showing selected information symbolised effectively to highlight specific characteristics. Mapping is usually more descriptive and easier to understand than textual information because pattern recognition is something human beings excel at.

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Geographic Information Systems (GIS)

Geomatics (GIS) Services

GIS Consulting & Design

GIS Startup-Up Services

- Orientation Seminars
- Situational Assessment
- User Needs Analysis
- Data Evaluation
- Functional Requirements Analysis
- Software Evaluation and Acquisition
- Pilot Application Studies/Projects

Systems, Database & Application Design–Conceptual Database Design

- Physical Database Design
- Application System Design
- Hardware/Software Configuration
- ORACLE Technology

Data/ Database

Data Conversion & Integration, including :

- Digitising, Scanning, Remote Sensing
- Raster to Vector Digital Data Conversion–Format Conversion
- Text/Tabular Data Entry/Formatting
- Graphic Data Capture/Formatting
- Data/Database Migration
- GPS Data Collection

Image Rectification/Registration
Data Interpretation/Update
Data Procurement/Automation
Project/Technical Management

Application Development & Implementation

GIS Applications Development

- Integrated, standalone
- Internet/Intranet web-based, client/server

Complete User/Programmer Documentation
Procedures Development
On-going Programming Support
Oracle-based Application Development

GIS Training

GIS Courses

- Introduction to GIS
- Working with Desktop ArcGIS
- Working with Spatial Analyst
- Working with 3D Analyst
- Working with ArcSDE using ArcInfo
- ArcSDE Admin for Oracle
- Introduction to Oracle SQL *Plus
- Fundamental of Oracle Database Administration
- Introduction to Erdas Imagine Professional
- Practical GIS Data Conversion
- Introduction to GIS Analysis & Modeling
- AutoCAD 2007
- Fundamentals of GPS Data Collection
- Working with Crystal Reports

Digital Data

Digital Base Maps

- 1:125,000 Topo (16 layers)
- 1:50,000 Topo (15 layers)

Thematic Data Layers

- Various Themes/Scales

Satellite Imagery

- Landsat, IRS, IKONOS etc
- Ortho-Rectified, High Resolution

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