

An aerial photograph of a coastline. The top half shows a dark blue sky with white clouds. Below the sky is a dark, semi-transparent rectangular box containing white text. The bottom half of the image shows a rugged, mountainous coastline with turquoise water. The water is a vibrant blue-green color, contrasting with the brown and green of the land. The land features steep, eroded hills and valleys. The coastline is irregular, with many inlets and peninsulas. The overall scene is a high-contrast, high-resolution aerial view of a natural landscape.

CYIENT

LEVERAGING GEOSPATIAL INFORMATION FOR IMPROVED BUSINESS EFFICIENCY

How we work with our clients to help overcome challenges
for a better tomorrow

Overview

As a leading provider of geospatial services, Cyient helps transform, manage, and deliver geospatial data. We drive stakeholder satisfaction by combining leading GIS technology platforms and data services to improve the quality, analysis, and application of geospatial information.

We are recognized as the global partner of choice for designing, building, and implementing robust geospatial technology. We help leverage the full potential of GIS to complement your business needs. Our services focus on system development for visualization and editing of geographic data, analysis of spatial relationships, and efficient spatial data management. Our service portfolio includes photogrammetry, GIS, LiDAR, and remote sensing.

Experience

Cyient leverages global delivery model and robust processes to deliver services that enhance your business agility. Key projects delivered include:

- Generated and updated intelligent data content to meet citizen needs for one of the Europe's largest national mapping agency
- Processed and analyzed large dataset of very high-resolution satellite imagery to develop a 3D terrain visualization for a leading American provider of commercial high-resolution earth imagery products and services
- Prepared high-accuracy GIS base map to support various social and economic surveys and planning projects for a national economic policymaking agency from Middle East
- Delivered accurate LiDAR solutions to derive high level of analysis, intelligence, and visualization for a consortium of 35 local governments in Los Angeles

- Developed an integrated geospatial system to manage urban property ownership records and provide citizen services for several cities and towns in Karnataka
- Leveraged an ESRI platform-based network engineering tool to enable efficient network utilization, enhanced planning and business expansion for a renowned telecom service provider in the US
- Built optimized network layouts by migrating wireless network data into a GIS environment for one of Saudi Arabia's largest telecommunication companies with 160 mn+ customer base

Our Solution Offerings

Remote Sensing

- Image processing and enhancements
- Image classification
- Multi band image analysis
- Incident analysis and reporting
- Hyperspectral image processing

Photogrammetry

- Aerial triangulation
- Terrain modeling
- 3D building modeling
- Orthophotos
- Large scale mapping and maintenance

LiDAR

- Point cloud processing
- Data classification
- Asset mapping
- Bare earth classification

Geospatial Applications

- Data migration
- GIS implementation
- GIS development and application customization
- Mobile GIS

Value Proposition

- Skilled remote sensing experts with the ability to develop thematic algorithms to process 8-band imagery
- Capacity to process aerial and mobile LiDAR data for high-quality output with 10 cm accuracy
- Vast experience in the design and development of various web- and mobile-based applications that utilize location information to enhance navigation
- Hybrid approach to utilize several data sources to produce high quality data with quick turnaround time

Capabilities

Cyient extensively utilizes GIS technology for delivering rich solutions on desktops, web, and mobile platforms. In accordance with industry trends, we also work closely with various enterprise platforms to integrate technologies and deliver collaborative results to the end-user.

Desktop GIS

- Custom tools and applications
- 3D GIS
- Content generation
- Enterprise database management
- Data modeling
- Data analysis

Mobile GIS

- Mobile GIS development
- Cross platform solutions
- Navigation solutions

Server

- Application development
- Integration services
- 3D web GIS
- Analytical solutions
- Portal design and development

HIGHLIGHTS

Received a quality award from a leading national mapping agency, for providing accurate and timely map data updates

Responsible for the annual refresh of 58 million road network features

Executed more than 1 million km² of terrain modeling, and modeled and textured over 200,000 buildings

Processed over 30,000 km² of LiDAR data

About Cyient

Cyient (Estd: 1991, NSE: CYIENT) provides engineering, manufacturing, geospatial, networks, and operations management services to global industry leaders. We leverage the power of digital technology and advanced analytics capabilities, along with domain knowledge and technical expertise, to solve complex business problems. As a Design, Build, and Maintain partner, we take solution ownership across the value chain to help our clients focus on their core, innovate, and stay ahead of the curve.

Relationships lie at the heart of how we work. With over 14,000 employees in 21 countries, we partner with clients to operate as part of their extended team, in ways that best suit their organization's culture and requirements. Our industry focus spans aerospace and defense, medical, telecommunications, rail transportation, semiconductor, utilities, industrial, energy, and natural resources.

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