



Environment

IL&FS Environmental Infrastructure & Services Ltd.

## Geospatial Solutions

“Empowering People with Sustainable Innovations”



## Positioned to Deliver...

IL&FS Environmental Infrastructure & Services Ltd. (IEISL) is a wholly owned subsidiary of Infrastructure Leasing and Financial Services (IL&FS), a premier non banking financial institution of India. IL&FS has developed and financed several large infrastructure projects on Public Private Partnership (PPP) framework in the country.

IEISL has extensive experience in providing advisory and project development services in Environment sector (Planning and Management, Regulatory Compliance Assessment, Remediation, Waste Management, Evaluation of Risks). IEISL has also established its credentials in Enterprise Geo-Spatial Solutions, Clean Development Mechanism and Energy Efficiency.

IEISL's proven expertise in Geospatial Solutions has been established over the last decade. The Company's focus is to provide sustainable solutions integrated with spatial technology that can be implemented in large scale projects on PPP model.

The group has undertaken pioneering initiatives in the various sectors like Environment & Agriculture, Infrastructure, Telecommunication, Urban & Utilities, Defense & Intelligence, Business GIS, Finance & Insurance, Health, Disaster Management, Mining and Water sectors across the country.

The group works closely with Government organizations along with Public Sector Units, Private Sectors and Multilateral Institutions across the global market.

## Quality Policy

"We shall deliver high quality Geospatial Solutions to our clients through Quality Management System by bringing quality into all processes to ensure the delivery of products and services within agreed time, budget and satisfaction with continual improvement of processes."

- Managing Director

**Spatial Solution Division is an ISO 9001: 2008 certified strategic business unit of IEISL**

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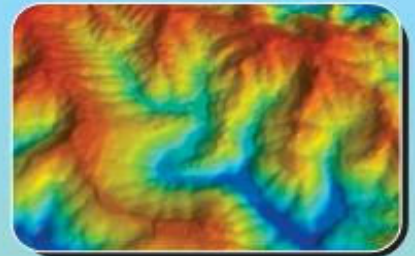
## Key Project Initiatives

- ❑ Enterprise Resource Planning Framework
- ❑ Environmental and Social Policy Framework (ESPF)
- ❑ Integrated Disaster Management System
- ❑ Health Management System
- ❑ Integrated Watershed Management Information System
- ❑ SEZ Infrastructure Management



## Technology and Innovation

- ❑ IEISL has state-of-the-art Research & Development (R&D) unit to bring innovation and technology parity in business offerings. Our competency lies in bringing cost competitiveness and service differentiation in the offered solution.
- ❑ Our strategic partners include leading technology providers and organizations who have set industry standards and support cutting-edge technologies.
- ❑ IEISL has developed partner ecosystem at domestic and global arena keeping Data need, Technology, System integration and implementation aspect in view. Our partners :
  - Data Partners - NRSC, Survey of India, Digital Globe and GeoEye
  - Technology Partners – ESRI, Intergraph, AutoDesk, MapInfo, Bentley, Oracle and Microsoft
  - Strategic Alliance – Google
  - Government Associations: MoEF, NRSC, ORSAC, GUDC



## Data Coverage and Inventory

- ❑ IEISL has built up an extensive inventory of value added GIS database covering:
  - Pan India: State level database up to village level
  - More than 3000 Indian cities and major transport corridors
  - Comprehensive database for South East Asia, Middle East, the Caribbean countries and the Asia-Pacific region
  - Extensive coverage of African countries at regional and city level
  - Time series data coverage of satellite imagery and topographical maps
  - Extensive coverage for over 5 Million Point of Interest (landmarks)

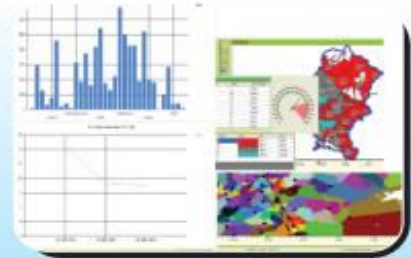


# Solutions

## Geospatial Solution

IEISL offers integrated enterprise solutions in :

- Geospatial Advisory Services
- Customized Value Added Geospatial Database
- Sector Specific Application Development
- Program Management and Implementation
- Managed Services



### Focus Sectors / Industry Segments:

- Environment & Agriculture
- Infrastructure
- Telecommunication
- Urban & Utilities
- Defense & Intelligence
- Business GIS
- Finance & Insurance
- Health
- Disaster Management

## Environmental and Social Services

We offer solutions for sustainable project development and community based services in following areas:

- Environmental Information, Planning & Advisory Services
- Environmental Management Plan and Impact Assessment
- Formulation of Regulatory Guidelines and Policy Making
- Social Advisory Services
- Environmental and Social Risk Management



## Resource Conservation and Management

We offer and formulate way forward conservation and management strategies for resources in the following segments:

- Energy Efficiency
- Clean Development Mechanism (CDM)
- Renewable Energy



## Solid Waste Management

The Company provides complete turn-key solutions for scientific management of different types of waste:

- Municipal Solid Waste
- Construction & Demolition Waste Management
- Hazardous Waste Management
- Electronic Waste Management (e-Waste)



**IEISL is uniquely positioned to conceptualize, plan and implement project management strategies that are socially responsive, environmentally effective and financially viable.**

# Services Offerings

Spatial Solutions Division has expertise in providing Geospatial Solutions in the following segments:

## GIS Consulting and Advisory Services

- ❑ Program Management
- ❑ Project Structuring, Planning and Designing
- ❑ System Requirement Studies and DPR Preparation
- ❑ Bid Process Management
- ❑ Training and Capacity Building



## Geospatial Database Development and Management Services

- ❑ Geographic Map Data Products
- ❑ Data Mining, Structuring and Migration
- ❑ Data Model and Meta Data Development
- ❑ Time Series Data Analysis and Modeling



## Remote Sensing and Photogrammetry Solutions

- ❑ Image Processing and Interpretation
- ❑ Digital Orthophoto, Thermal and Microwave Services
- ❑ Digital Photogrammetry Services (2D and 3D)
- ❑ Model Simulation and Development

## Field Survey and Data Collection

- ❑ Topographical Survey
- ❑ Socio-economic Survey
- ❑ Cadastral Survey
- ❑ Utility Survey (GPR / Sensor based)



## Enterprise GIS Solutions and Services

- ❑ Modeling and Analysis
- ❑ Enterprise Application Development
- ❑ System Integration

## Project Roll Out and Implementation

- ❑ Turnkey Approach
- ❑ Green Field and Brown Field Approach

## Managed Services

- ❑ GIS Managed Services
- ❑ Data Management
- ❑ IT Enabled Managed Services
- ❑ Field Managed Services



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# Clients

## GOVERNMENT SECTOR

- Department of Information Technology, Government of India
- Ministry of Environment and Forests (MoEF)
- Government of Delhi
- Andhra Pradesh Forest Department , Government of Andhra Pradesh
- OeSL – JV company of Government of Orissa
- Project Development Company of Rajasthan (PDCOR)
- BeST - JV company of Government of Bihar
- Government of Kerala
- Ministry of Textiles
- DMICDC - JV company of Government of India
- GIFT - JV company of Government of Gujarat
- Mumbai Metropolitan Road Development Corporation
- Municipal Corporations of Delhi, Mumbai, Guwahati and Kottayam
- Central Pollution Control Board
- Urban Mass Transit Company Ltd. (UMTC)
- Orissa Space Application Centre (ORSAC)

## PRIVATE SECTOR

- Bharti Airtel
- Airtel Africa
- Bharti Infratel
- Idea Cellular
- Tata Tele Services Ltd.
- Nokia Siemens Network (NSN)
- ITIL
- Reliance Telecom Ltd.
- Huawei
- NTS, Indonesia
- Soma Networks
- LG Nortel
- Alcatel Lucent
- Arcelor Mittal
- East West Centre

## MULTILATERAL AGENCIES

- World Bank
- USAID
- Asian Development Bank
- GTZ

## PUBLIC SECTOR UNDERTAKING

- Satluj Vidyut Jal Nigam Ltd. (SVJNL)
- Gas Authority of India Ltd. (GAIL)
- Steel Authority of India Ltd. (SAIL)



# Environment

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