



ABOUT PAN ENVIRON INDIA

Established in Trivandrum, Kerala in 2013 as a Private Limited Company

Shares technology transfer partnership with PAN group, Saudi Arabia

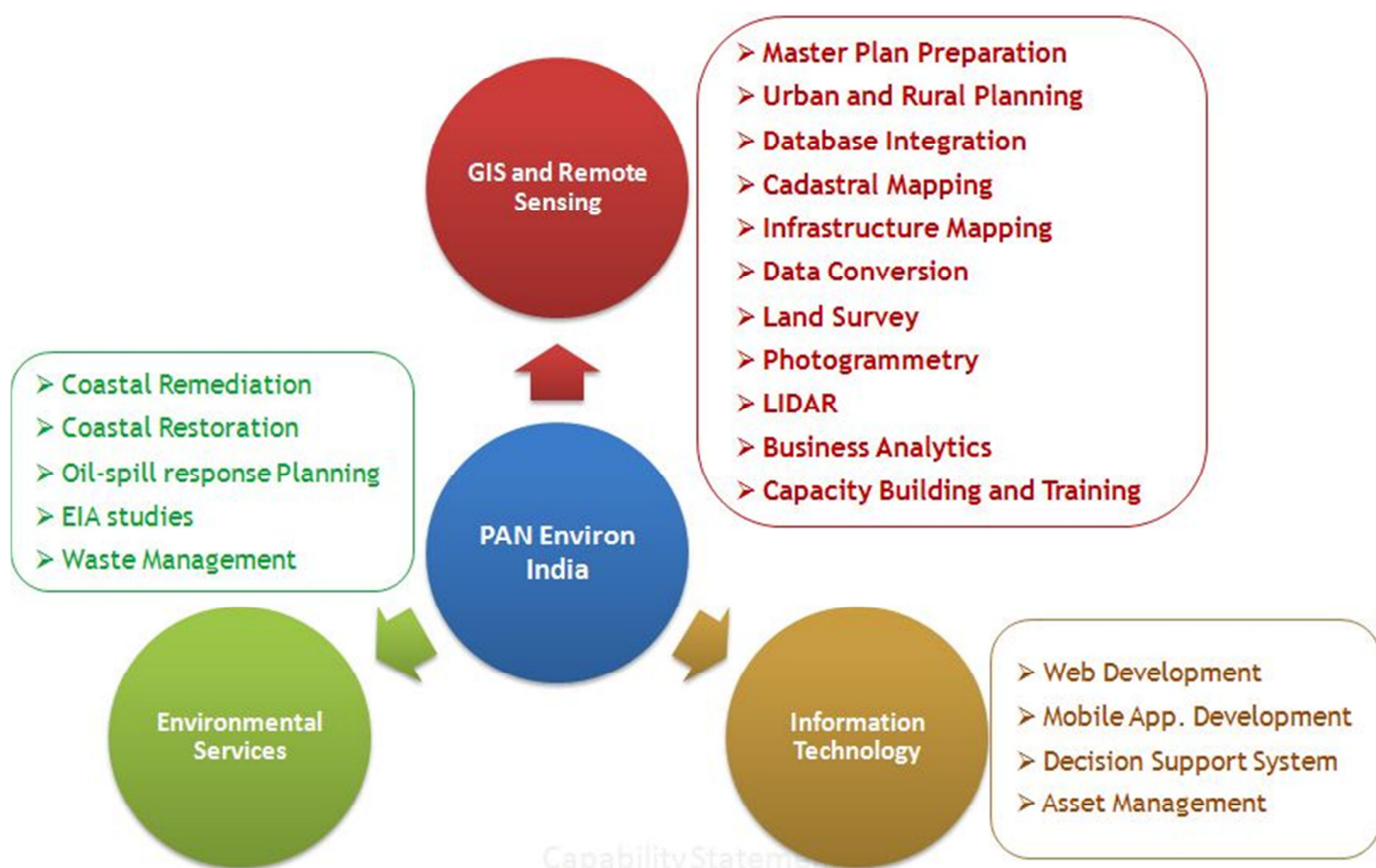
Business focus on Geographic Information System (GIS), Remote Sensing (RS), Environmental Remediation, and Environmental Sensitivity mapping

Team led by eminent scientists and engineers both in India and Middle East

Maintains highly experienced consultant base around the globe

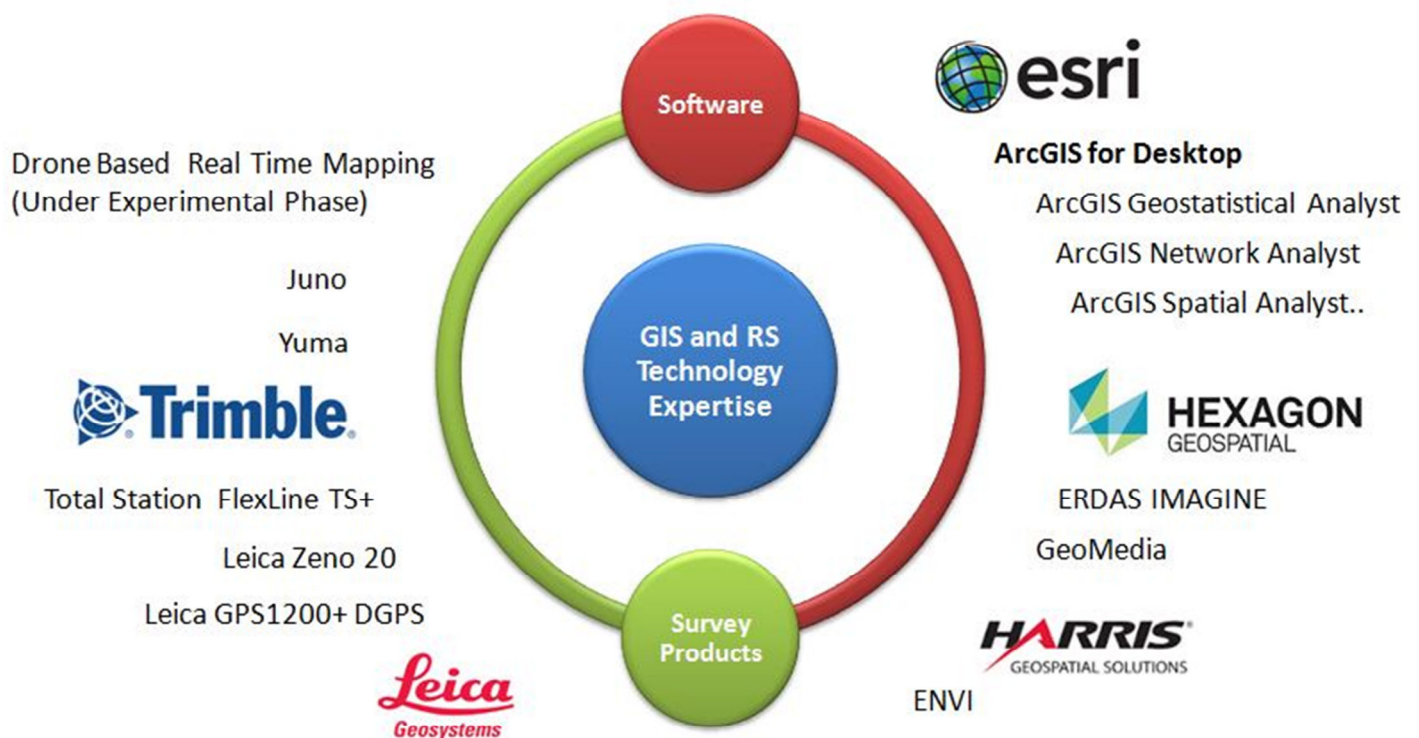


OUR CAPABILITIES





OUR CAPABILITIES





OUR MAJOR CLIENTS



Town Country Planning Department, Daman.
U.T. Administration of Daman and Diu





PROJECT HIGHLIGHTS

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3	Creation of GIS Database of all Departments of Union Territory of Dadra and Nagar Haveli, Silvassa, India	Achenkovil River Bank Mapping and Sand Auditing, Kerala, India	4
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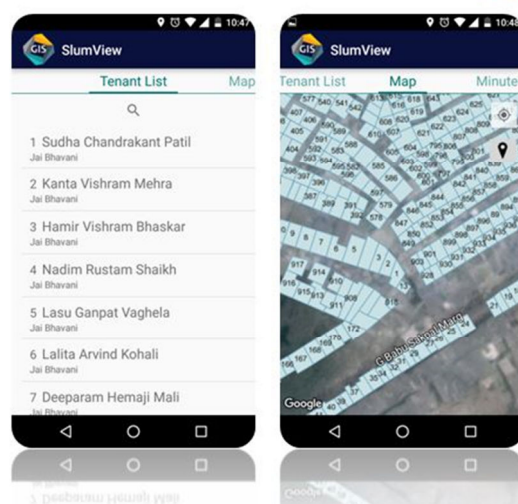
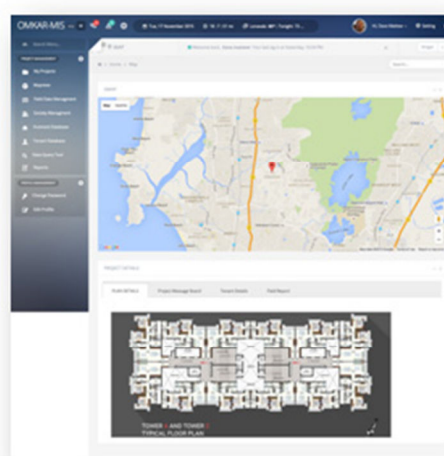


Slum Management Information System, Mumbai, India

The project help develop GIS based robust web and mobile application (both in android and iOS) that support officials in planning, executing, monitoring and controlling day-to-day activities that spread in multiple locations in Mumbai City. The project visualizes a real-time technology that assists in data capturing, updating, analysis, query and reporting.

Specialities

- Applications
 - Web, Android, iOS,
 - Google Map API
- Spatial
 - GIS layer Integration
 - GPRS enabled online and offline survey data collection
- Functionalities
 - Data Query and analysis
 - Dashboard reporting
 - SAP Integration
 - Standard map viewing tools



Project Status: Start Date: Sep. 2015, End date: Ongoing

Client: OMKAR Realtors & developers, Omkar House ,Sion (E) , Mumbai 400 022



Road Network and POI mapping in Sabarimala Sector Kerala, India

PAN Environ has mapped about 400 km road network and associated land marks in remote areas of Sabarimala pilgrimage centre. In addition, survey results are updated onto open-street-map using JOSM and Potlatch. The end users of this map include Kerala Motor Vehicle Department, CDAC (Govt. of India) and millions of Sabarimala Pilgrims.

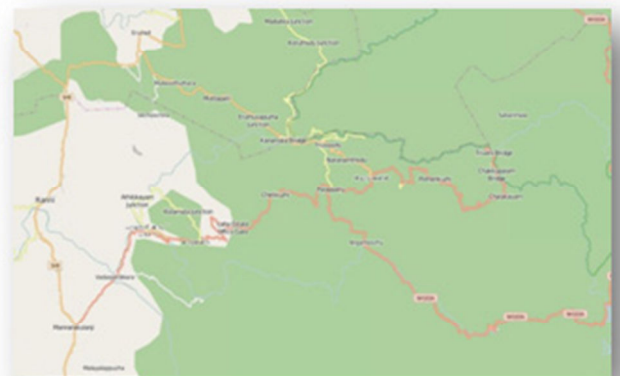
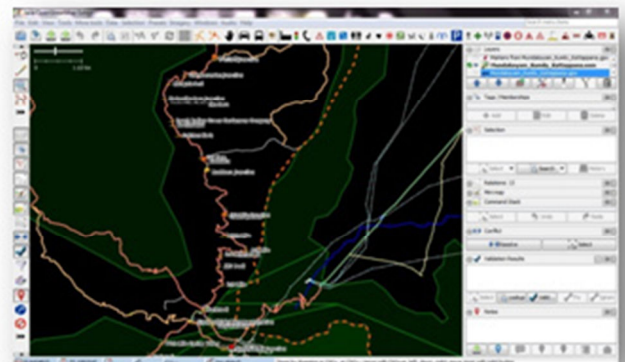
Specialities

Survey Instruments

- DGPS, and Hand-held GPS

Software

- JOSM, Potlatch editor
- ArcGIS 10.2



Project Status: Start Date: Oct. 2015, End date: Feb, 2016

Client: Centre for Development of Advanced Computing (CDAC), Vellayambalam, Trivandrum, Kerala, India



Creation of GIS Database of all Departments of Union Territory of Dadra and Nagar Haveli, Silvassa, India

PAN Environ India is in the process of creating a common geodatabase by compiling existing datasets of Planning and Development Authority, Silvassa. In addition, PAN has engaged to coordinate data collection and ground-truthing to verify spatial and non-spatial accuracy of collected data. Ultimately, a detailed data gap report and a comprehensive training will be delivered to the planning department.

Specialities

Data standardization;

- Coordinate system
- Projection
- Data continuity
- Topology
- Metadata

ArcGIS training

Ground-truthing

Software

- ArcGIS 10.2
- Q-GIS



Project Status: Start Date: Nov. 2015, End date: June 2016

Client: Planning and Development Authority, Dadra and Nagar Haveli, Silvassa, India



Achenkovil River Bank Mapping and Sand Auditing Kerala, India

This project has been evolved as part of Kerala Government's sanction to conduct River Bank mapping and Sand Auditing of 20 rivers of Kerala. The role of PAN is to assist Musaliar College, the project owner in GIS map creation and scientific report preparation.

Specialities

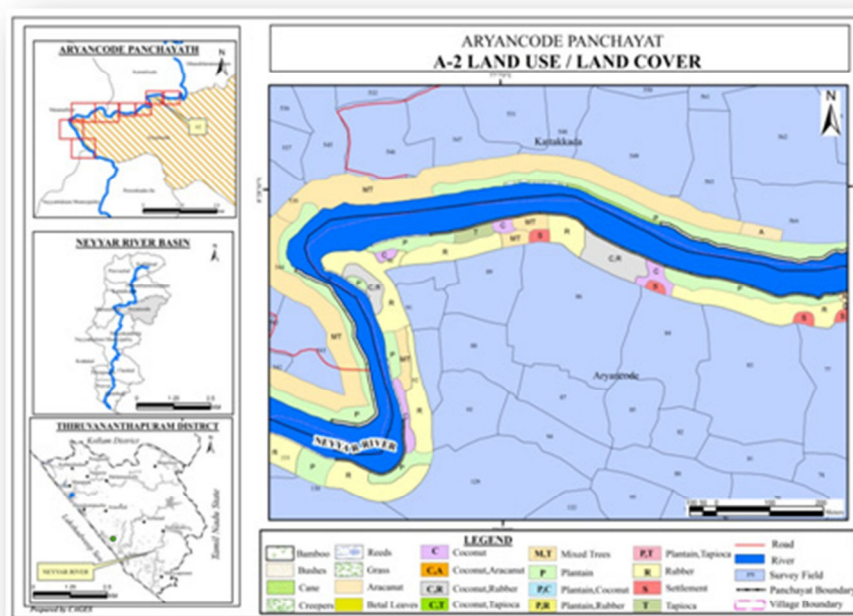
Cadastral map digitization

Survey-plot segmentation

Thematic layer preparation

Cartographic design

Reporting



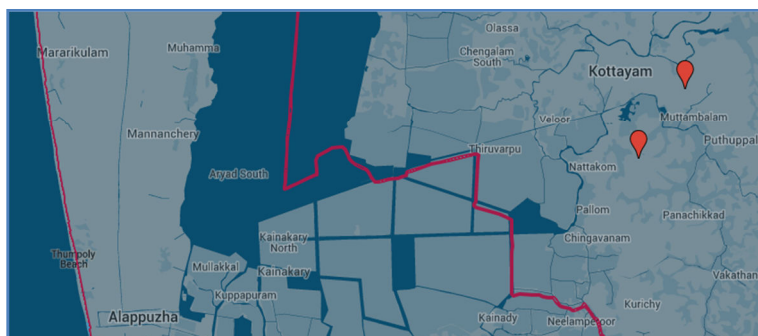
Project Status: Start Date: Sep. 2015, End date: Mar 2016

Client: Musaliyar College of Engineering, Pathanamthitta, Kerala, India



Water Authority Asset Mapping, Alapuzha and Kottayam Districts, Kerala, India

The scope of works includes surface and subsurface utility assets mapping of 3,650 Sq.Km area in six months duration. The project makes use of Ground Penetrating Radar technology to locate subsurface utilities. In addition, cadastral level asset information, road networks, landmarks, surface water bodies and natural drainage will be derived from high resolution satellite imageries, toposheets, cadastral/litho maps and field survey. In order to fulfill its social commitment, PAN Environ provide spatial training to local people and engage them in this project.



Specialities

Surface and Subsurface asset data collection

200,000 consumer data collection

Project Status: Start Date: May 2016, End date: Ongoing

Client: ULTS, Kerala, India



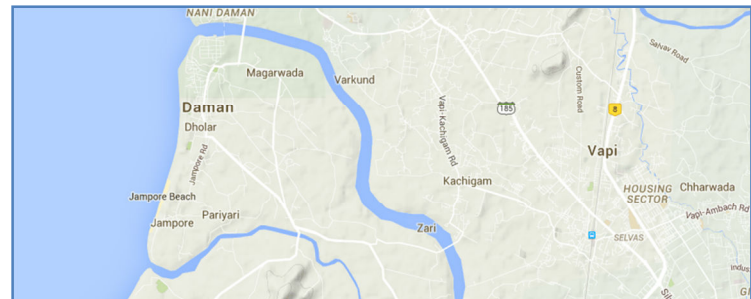
GIS Master Plan database preparation of Daman district of UT of Daman and Diu

Over its seven months timeline, the project will develop a robust spatial database of Daman district integrating existing Master Plan data and other relevant themes collected from concerned departments. The project span in 72 Sq. Km. area

Specialities

Updating of existing regional master plan

Comprehensive data collection and data incorporation



Project Status: Start Date: Jun. 2016, End date: Ongoing

Client: Planning and Development Authority, Union Territory of
Daman and Diu, Daman, India



Electronic Total Station Survey, KIAL Kerala, India

Topographical survey in Kannur International Airport Limited (KIAL) project area for the extension of runway to 4000M, using electronic total station equipment.

Specialities

Topographic Survey

Area demarcation and elevation survey

Plan preparation



Project Status: Start Date: Oct, 2015, End date: Ongoing

Client: Larsen & Toubro, KIAL Project, Kannur, Kerala, India



Preparation of GPS Survey Records, Southern Railway, Thiruvananthapuram, Kerala

The task includes the preparation of GPS survey report for controlling and monitoring of obstacle under southern railway in and around Trivandrum airport.

Specialities

GPS data collection

Building height measurement

Report preparation



Project Status: Start Date: Sep, 2016, End date: Oct, 2016

Client: Railway Divisional office, Southern Railway, Kerala, India



Geology Consultancy Service

Our environmental team constituted with erstwhile Earth System scientists provide erudite consultancy on various geo-services; including but not limited to heavy mineral characterization, coastal regulations, ground water monitoring, geological mapping, marine surveys and scientific report writings.

Specialities

Heavy Mineral characterisation

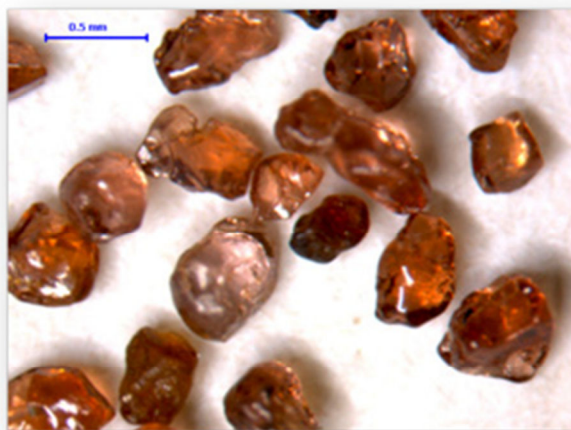
Geological mapping

Indian coastal regulations

Ground water monitoring

Marine survey

Scientific report preparation



Project Status: Start Date: July. 2015, End date: Ongoing

Client: Global Resources Group Neftegaz Services B.V, Russia



Road network and Gasoline station mapping of Riyadh City, Saudi Arabia

The project involved mapping of all gasoline stations, road networks and other major land marks within the city of Riyadh. PAN was responsible for geodatabase design, basemap preparation, field survey coordination and GIS integration. Gasoline stations, road networks, and major land marks were mapped with multitude of required attributes and were used to develop an online gasoline station license renewal system.

Specialities

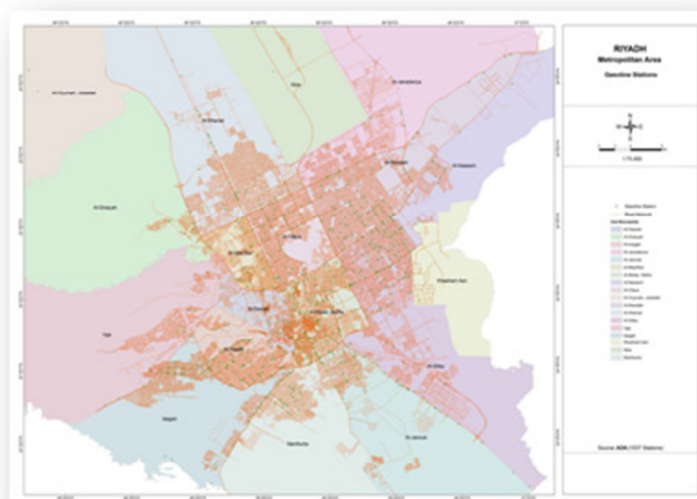
Online gasoline station survey

Survey Instruments;

- DGPS, and Hand-held GPS

Software

- ArcGIS
- ERDAS



Project Status: Start Date: Jan. 2012, End date: Completed

Client: Presidency of Meteorology and Environment (PME), Jeddah, Saudi Arabia



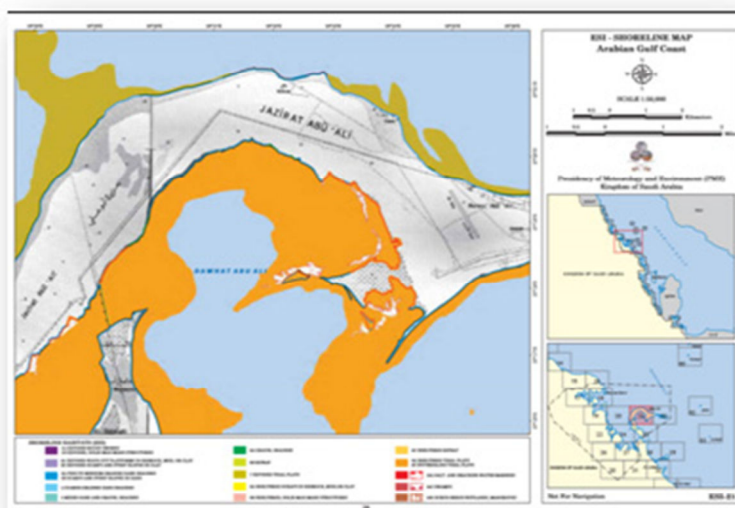
Gulf Coastal Resources Baseline Assessment, Saudi Arabia

Coastal habitats are at risk at the event of an oil spill. In order to prioritize sensitive locations and to quantify the injuries resulting from oil spill, decision makers require a base map with shoreline, biological and socio-economic aspects. This will help administrators for claiming compensation under national and international regulations. PAN was responsible for generating this baseline data. Subsequently, computer simulations on the movement of oil slicks under different weather conditions was developed to estimate the injuries to the natural resources

Specialities

Mapping

- Coastal Habitats
- Biological Resources
- Human-use resources
- Oil-spill simulator model



Project Status: Start Date: Oct. 2008, End date: Completed

Client: Presidency of Meteorology and Environment (PME), Jeddah, Saudi Arabia



Coastal Environment Remediation and Restoration, Jubail, Saudi Arabia

The goal of the project was to enhance the natural recovery of salt marsh and other coastal habitats that were damaged during 1991 Gulf War oil spill. The key remediation activities executed include; Tidal Channel excavation, Heavily Oiled Sediment excavation, Contaminated spoil disposal, Tilling, and Mangrove planting. In total, 58,063 meter of tidal channels excavated criss-crossing salt marsh, heavily oiled sediments excavated from 174,620 Sq.M area, 100,000 Cu.M contaminated spoil disposed off, and ultimately 90,000 mangrove saplings grounded in appropriate locations.

Specialities

Coastal remediation planning

Project management

Tidal channel excavation

Heavy oiled sediment- characterization

Mangrove transplanting



Project Status: Start Date: May. 2011, End date: Completed

Client: Presidency of Meteorology and Environment (PME), Jeddah, Saudi Arabia



Environmental Decision Support System (EDSS), Kingdom of Saudi Arabia

EDSS is a complex GIS based web application developed on .NET Platform, including major modules like ESI Atlas Maps, Oil Spill Modeling & Simulation and Natural Resource Damage Assessment (NRDA). It was designed to help an Environmental Specialist to make decision with his queries on different scenarios during an oil spill event. The system developed using ASP.NET and C#.NET with ESRI ArcGIS Server 9.3.

Specialities

Decision support system

ESI Explorer

Software

- ArcGIS Server
- .NET



Project Status: Start Date: Oct. 2008, End date: Completed

Client: Presidency of Meteorology and Environment (PME), Jeddah, Saudi Arabia



PAN TEAM ASSISTED PROJECTS



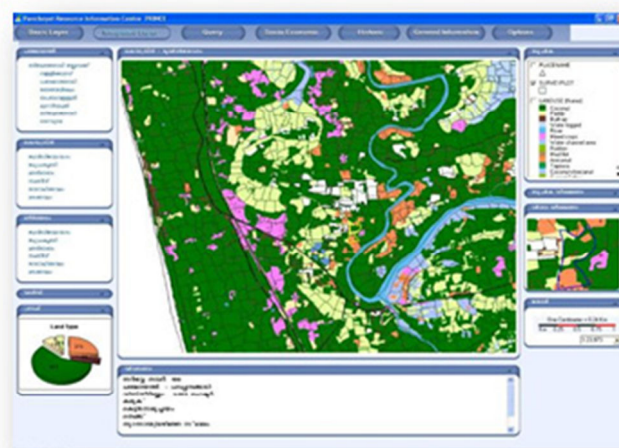


PRINCE (Panchayat Resource Information Centre)

ISRO (Indian Space Research Organization) funded project was successfully implemented at 'Tirurangadi Panchayat', and this project, aimed at establishing an information system using GIS tools, finally culminated into the establishment of a public facility termed as PRINCE. The system developed using Visual Basic 6 and ESRI MapObjects 2.2

Specialities

- Complex GIS Algorithms are converted into 'Single Click' GUI.
- View and query several thematic layers such as Administrative boundaries, Landuse, Landform, Watershed, Soil, Slope, Cadastry, Assets etc.
- Spatial query on thematic maps
- Road network and shortest path finder



Client: Indian Space Research Organization (ISRO), Bangalore, India



Integrated GIS Based Vehicle Tracking and Distress Call response Management System (IGVTDC)

To provide standard GIS data on distribution of all important land marks, Road and other transport network, Built-ups and tabular details pertaining to them so as to facilitate the authorities to carry out Vehicle tracking and Distress call system.



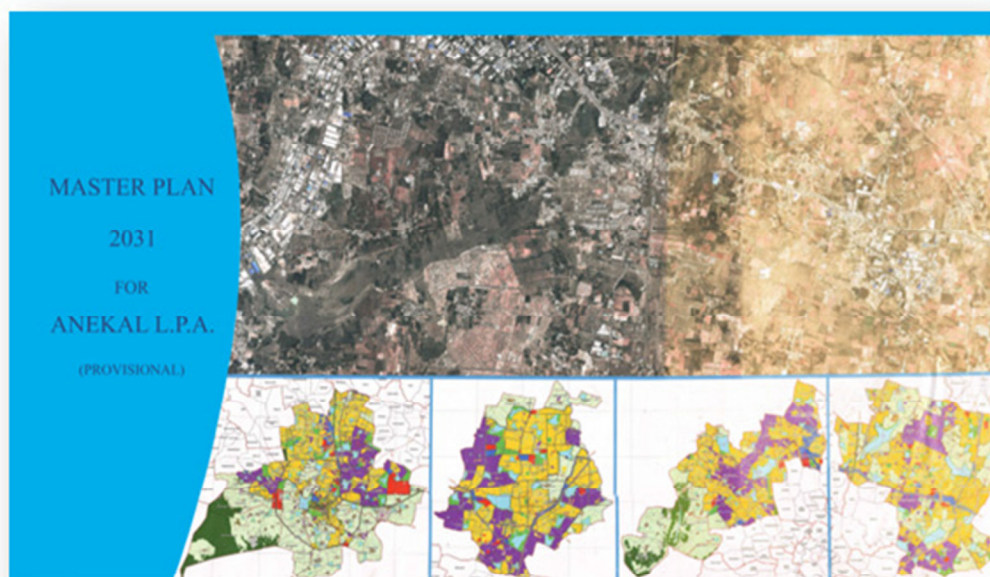
Client: Kolkata Police, on behalf of KELTRON, Kolkata, India



Master Plan for Anekal Local Planning Area

BMRDA Prepared scientific GIS Based maps for the Local Planning Area by acquiring Quick Bird data based on 2009. This is aimed for a Plan for the development and re-development of the area within the jurisdictions of the planning authority. Contents of the Master Plan are defined as follows

- Zoning of Landuse
- Street Pattern including Transportation Network
- Area reserved for Parks/Play Ground/Open spaces
- Area reservation for future purpose
- Area reservation for Public Utilities
- Declaring and farming regulations for areas of special control.



Client: Bangalore Metropolitan Regional Development Authority (BMRDA) on behalf of CES,
Bangalore, India