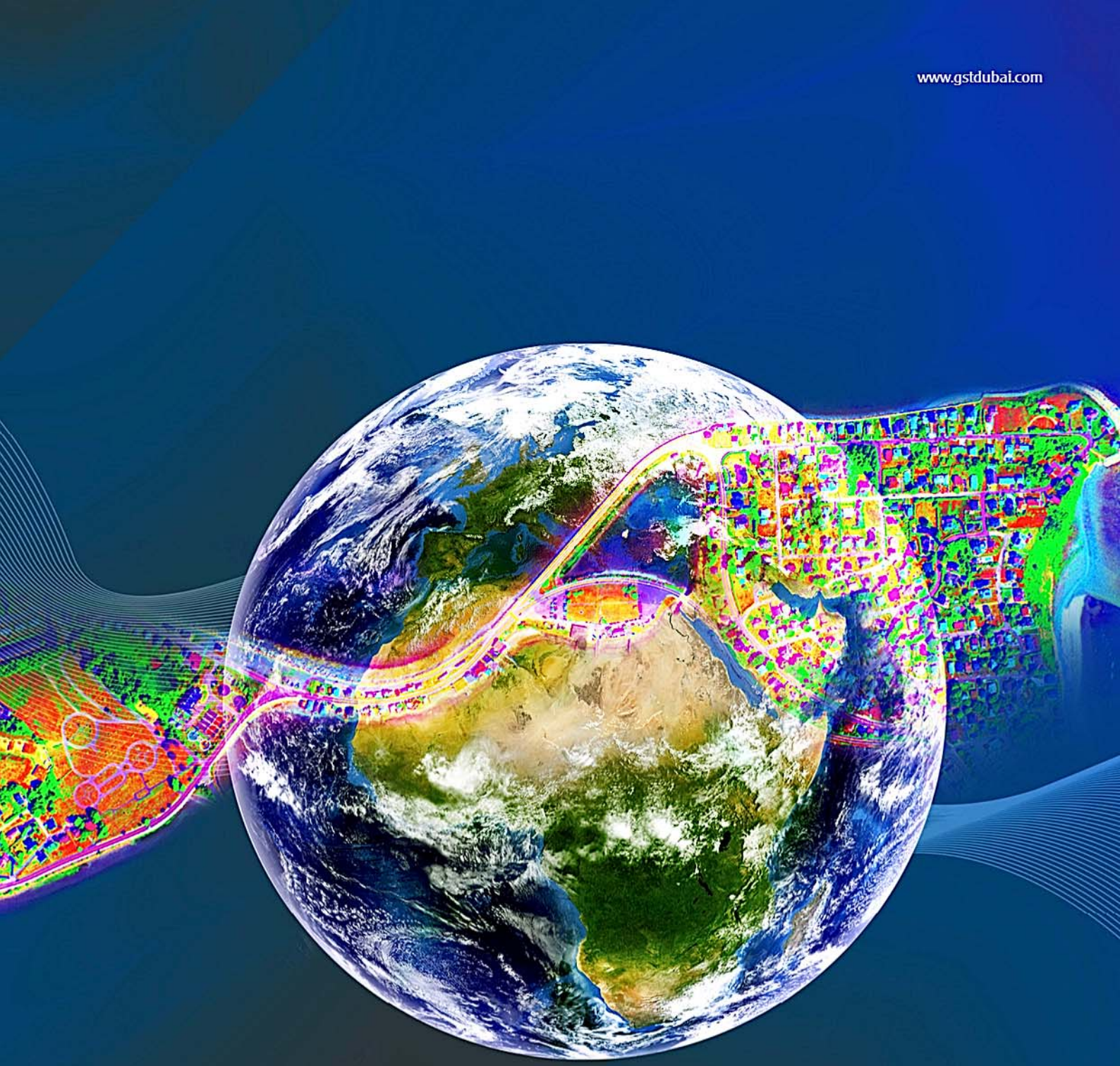
www.gstdubai.com



Geo-information solutions
Across the world

GLOBALSCAN bh
TECHNOLOGIES

ABOUT

Global Scan Technologies, founded in 2002, is a member of Belhasa Group of Companies.

GST's approach utilizes the latest complete geospatial technologies available to provide and develop efficient, customized and innovative solutions. This gives our clients the benefit of a single point of contact for turnkey geospatial projects. Our service is a unique blend of experience and cost effectiveness. GST is the proud owner and operator of a Ground Receiving Station for medium resolution Satellite Imagery.

Our geospatial solutions cater to a broad spectrum of users in public, private, government, non-government and academic sectors. GST's activities are carried out worldwide onshore and offshore with a focus on Middle East and Africa. Our market covers a large number of industrial sectors including Agriculture, Food, Water, Environment, Defense and Security, Energy (Oil & Gas and Mining), Utilities, Information, Health, Media, Telecommunication, Infrastructure, and Urban Planning.

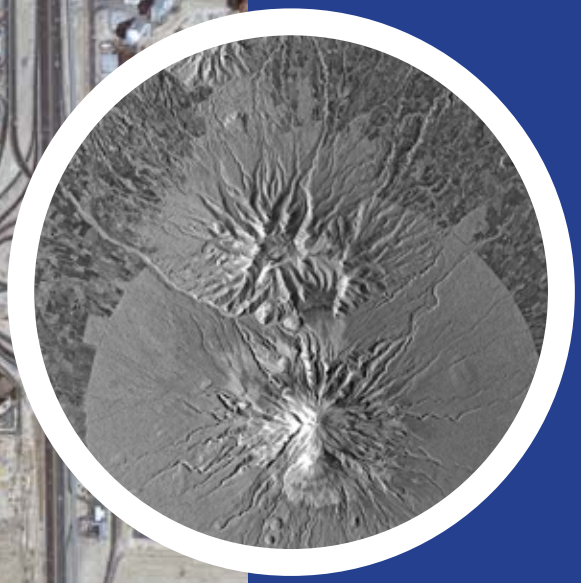
We serve our clients in the region by utilizing the latest technologies in Airborne Hyperspectral Remote Sensing and Thermal Imaging, Aerial Photography, Satellite Imagery, LiDAR Surveying, Ground Based Collection Systems and Geographic Information System.

The size and diversity of our international partnerships as a representative, distributor or business partner give us the ability to accomplish effectively even large-scale projects on perfect time.

> "Gst is the proud owner of a personal ground receiving station for satellite imagery."

SATELLITE IMAGERY

GST provides a complete range of Satellite Imagery products that spans from High Resolution Imagery to Medium Resolution and all types of data including SAR, Optical and Thermal with cost effective value added services.



- **High Resolution**
  GeoEye, Digital Globe, Pléiades Dubaisat 2
- **Medium Resolution**
  Spot, ALOS, Rapideye, Aster, DMC, Dubaisat 1
- **SAR Data**
  TerraSAR-X, PALSAR, Radarsat -1 & 2

GEOSPATIAL SERVICES

GST offers a range of high end Geospatial Services right from planning, designing, data sourcing, analysis, presentation, software customization, consulting, development, implementation through to maintenance and support to help your organization to efficiently manage your Geo-information database and suit to your requirements.

Our services are based on our extensive experience and scientific approach. We develop systems and products to support decision making in the fields of agriculture, natural resources, asset management, urban planning and development. Our skilled resource pool caters to mapping, GIS consulting, application development and Enterprise GIS.

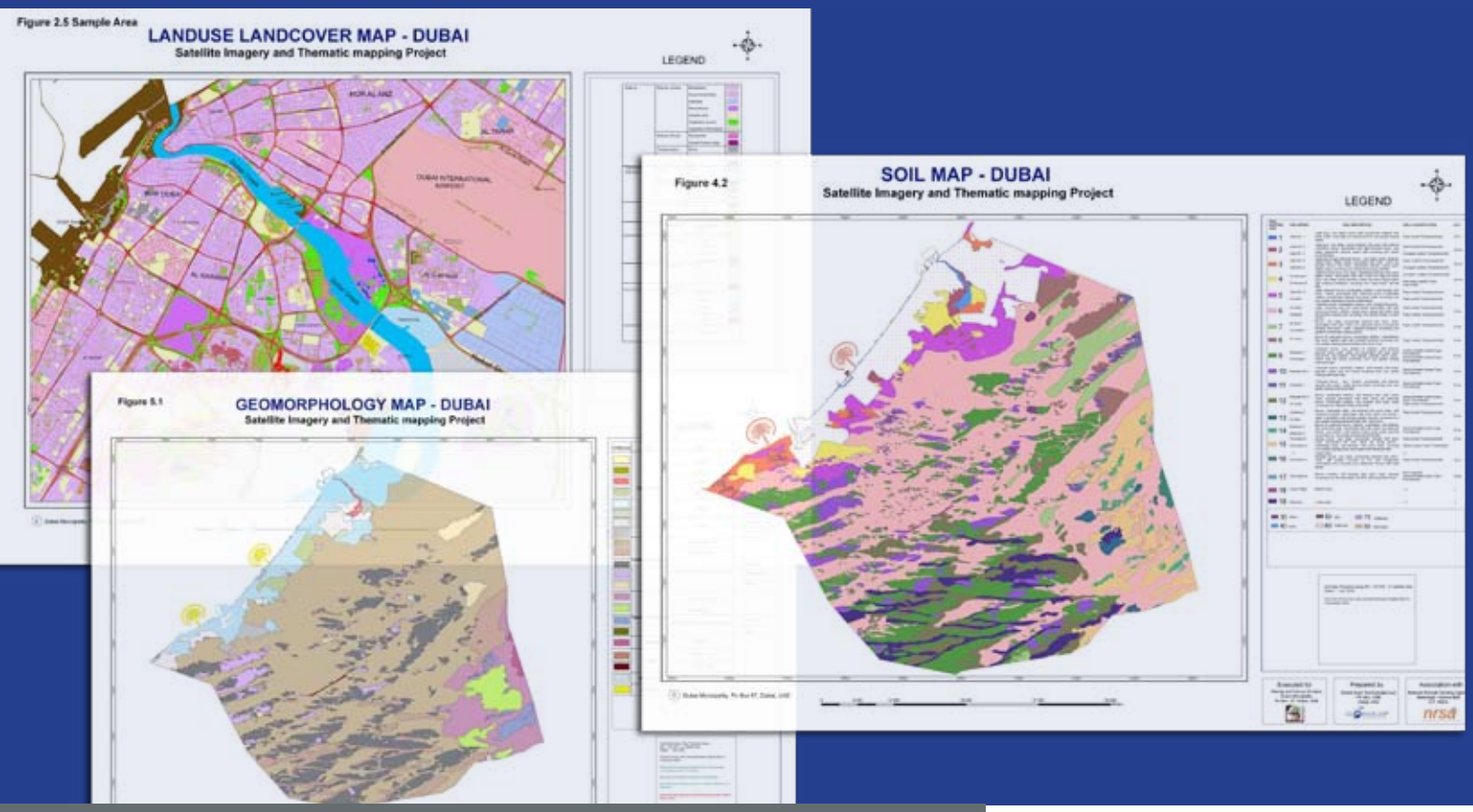
GST IS PRIMARILY INVOLVED IN THE FOLLOWING STREAMS

LiDAR Surveying
(Mobile, Airborne & Terrestrial)
Natural Resources Management and Mapping
(Soil, Geology, Vegetation)
Real-Time Oil Spill Detection & Monitoring
Natural Resource Exploration
(Oil & Gas, Minerals and Water)
Aerial Imaging
(Multispectral & Hyperspectral)
Ground Based Collection Systems
Digital Image Processing
Data Conversation & Preparation
Unmanned Aerial Vehicle Services
Topographic Mapping
Cadastral Mapping
Ground and Hydrographic Surveying
Environmental Studies
Socio Economic Analysis and Mapping
Web Based GIS Solutions and Applications
GeoSpatial Enterprise Mobility Solutions-GEMS
GEMS Fleet Management
GEMS Work Force Management
GEMS Asset Management
Interferometric Synthetic Aperture Radar Applications
Geospatial Oil and Gas Services
Oil Spill Detection and Monitoring
Surface Movement Monitoring

NATURAL RESOURCE MANAGEMENT AND MAPPING

We generate Thematic Geo Database with international standards to understand the distribution of Natural Resources and landforms structures. Following are the main:

- Geology • Geomorphology • HydroGeomorphology
- Lithology • Structural Mapping • Soils
- Land-use / Land-cover • Natural Vegetation



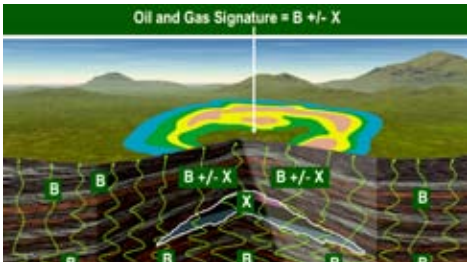
NATURAL RESOURCE EXPLORATION

GST provides high-quality, oil and gas prospectivity analysis, onshore and offshore, for E&P companies worldwide using innovative but proven methodologies. The first methodology involves remote sensing based on GET which is short for GlobalScan Explorer Technology. This method interprets satellite, cartographic, and geological data via five unique models to delineate contours of Hydro Carbon prospectivity.

Enabling the Exploration and Mining industries to find minerals and Hydro-Carbons.

Naturally Adsorbed Gas Survey (NAGS), the second methodology, is a geochemical-based tool which uses an innovative model of the gas fields of the Earth characterized by analysis of adsorbed gases. The following service offerings are available:

GET Express Analysis
(regional-level remote sensing analysis)
Full GET Analysis
(detailed, local-level remote sensing analysis)



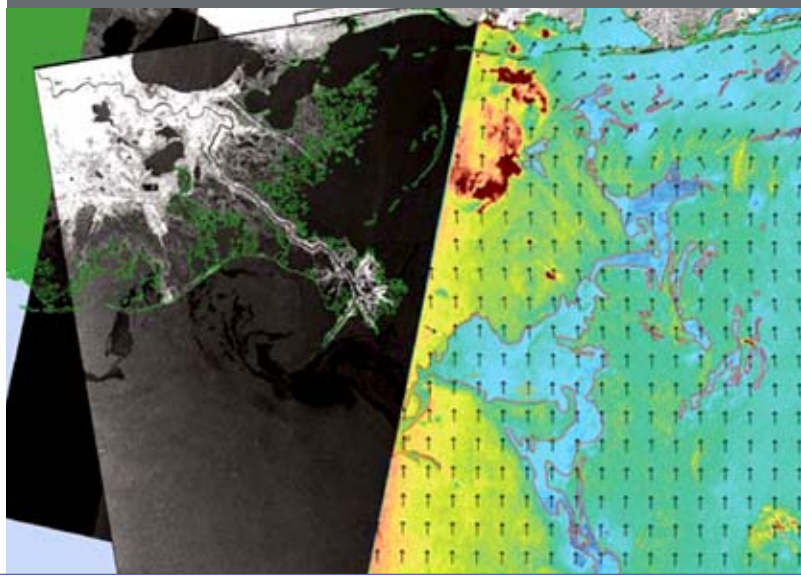
NAGS Analysis
(adsorbed gas geochemical survey)

REAL TIME OIL SPILL DETECTION AND MONITORING

GST can detect and monitor in real time or near-real time oil spills on the ocean surface by using Microwave (X-Band) Radar and/or Radar Satellite Imagery

Microwave Radar or X-Band radar has been proven effective in the detection of oil on water. Our system is capable of performing real-time process over a large number of consecutive radar scans with full vessel motion compensation. It can be installed either on-board a vessel or on a fixed platform.

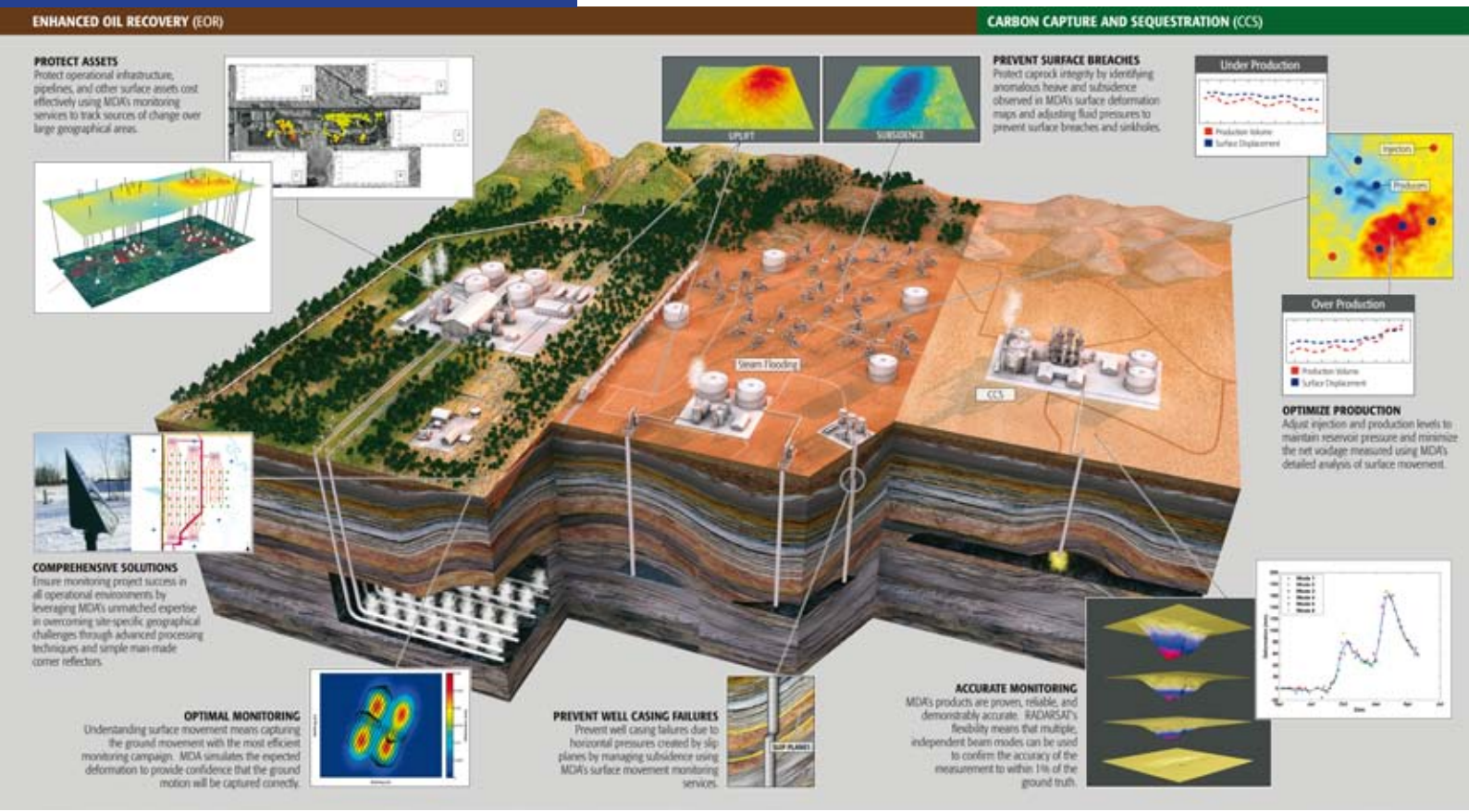
GST Satellite Based oil spill detection and monitoring Service provides information primarily derived from Radar satellite data, which allows weather independent and consistent wide-area data to be gathered for expert analysis.



SURFACE MOVEMENT MONITORING

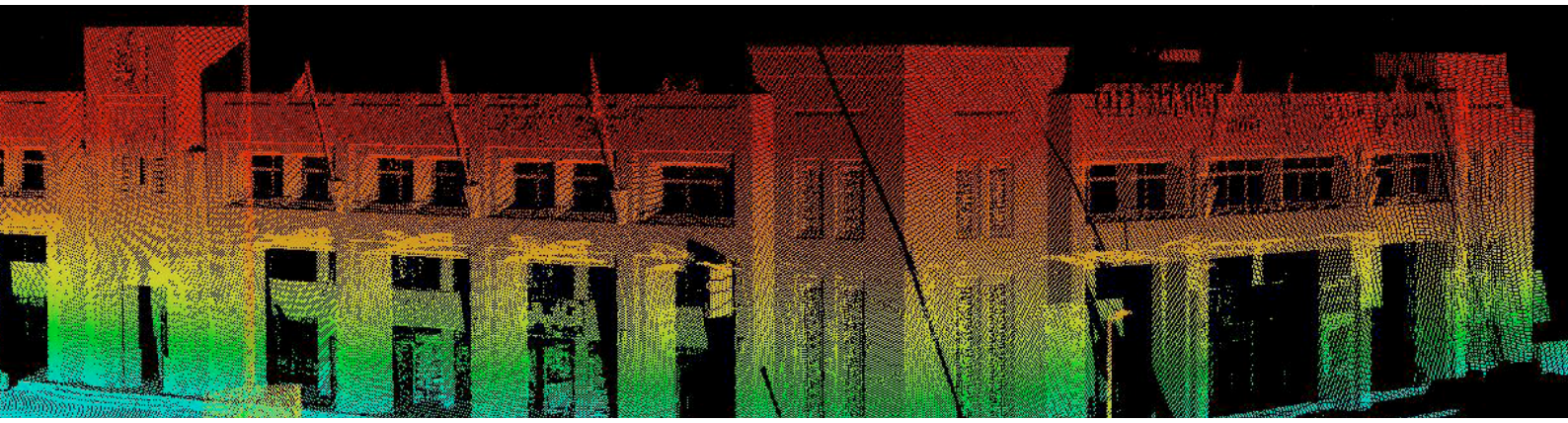
GST's proven surface movement monitoring solutions enable Oil and Gas operators to increase operating efficiencies while mitigating operational and environmental risks.

Reliable and accurate monitoring of uplift and subsidence enables operators to protect caprock integrity, detect steam distribution, and optimize production.



LIDAR AND AERIAL CAMERA

GST is a representative of Optech which is the world leader in the development and manufacture of advanced LiDAR and camera survey instruments for airborne, mobile and terrestrial mapping. Optech has led the advancement of the technology for 40 years, empowering surveyors, researchers and government organizations with fast, accurate and cost-effective solutions.



MOBILE

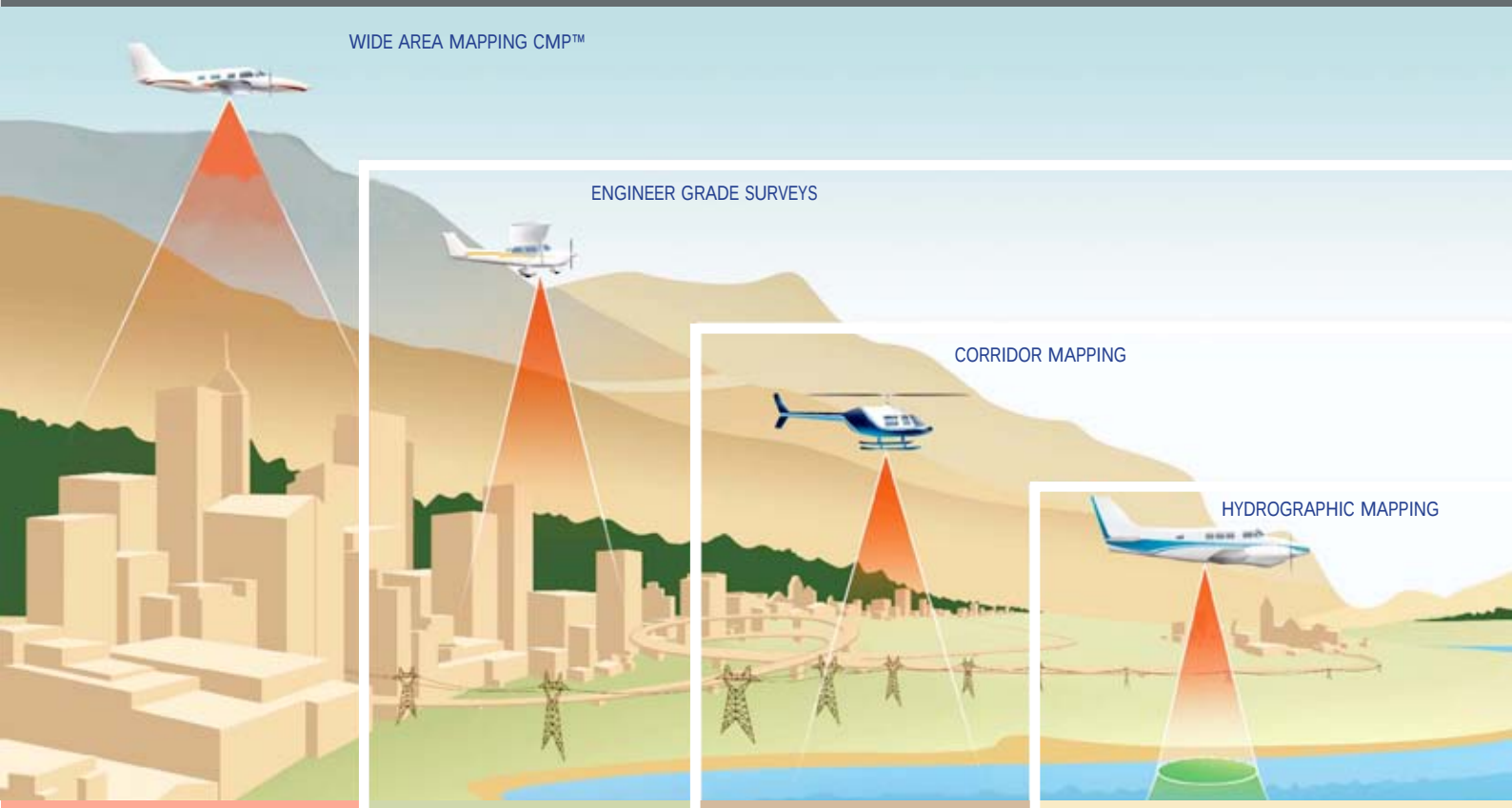
LYNX Mobile surveying facilitates the collection of spatially correct data on a large scale. Rather than survey individual buildings or areas, mobile mapping systems can be deployed to map entire cities or hundreds (even thousands) of kilometers of transportation corridors

STATIC

ILRIS Lidar technology naturally lends itself to surveying and mapping applications such as construction verification, geological data collection, and mine planning. Optech has developed systems that perform surveys in extreme circumstances, including working at ranges up to 3 km.

AIRBORNE

OPTECH Airborne sensors capture wide areas of terrain such as cities, forests and farmlands, or long corridors such as power lines, railways and rivers. Airborne sensors also have the speed and flexibility to survey many square kilometers in a single flight, even over rough or inaccessible terrain.



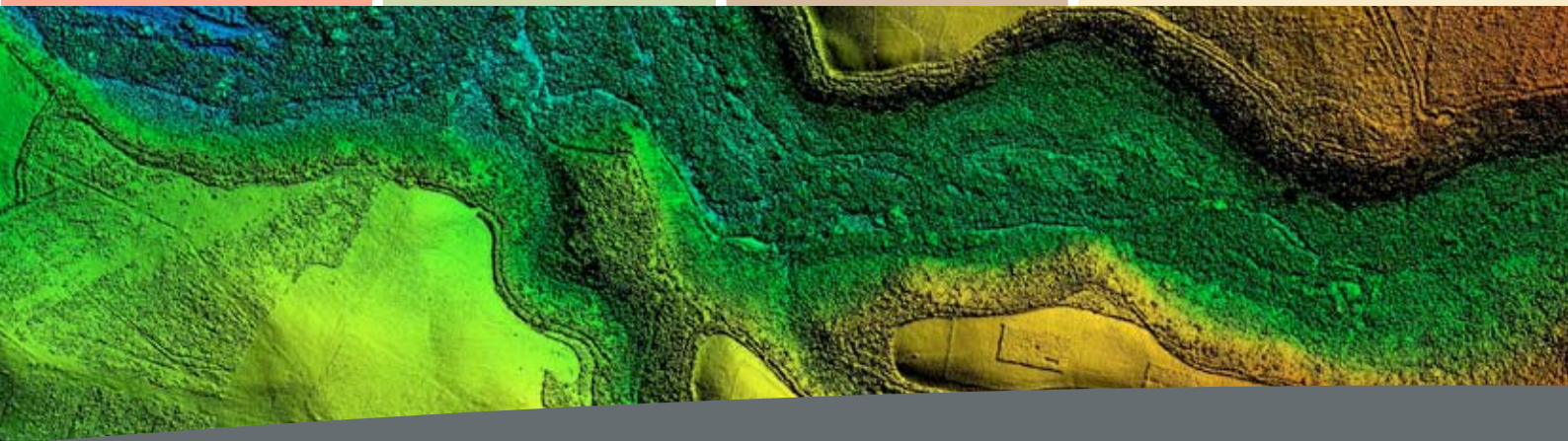
PEGASUS HA 500

ORION H300

ORION M300

ORION C300

CZMIL



AIRBORNE HYPERSPECTRAL & THERMAL IMAGING - ITRES

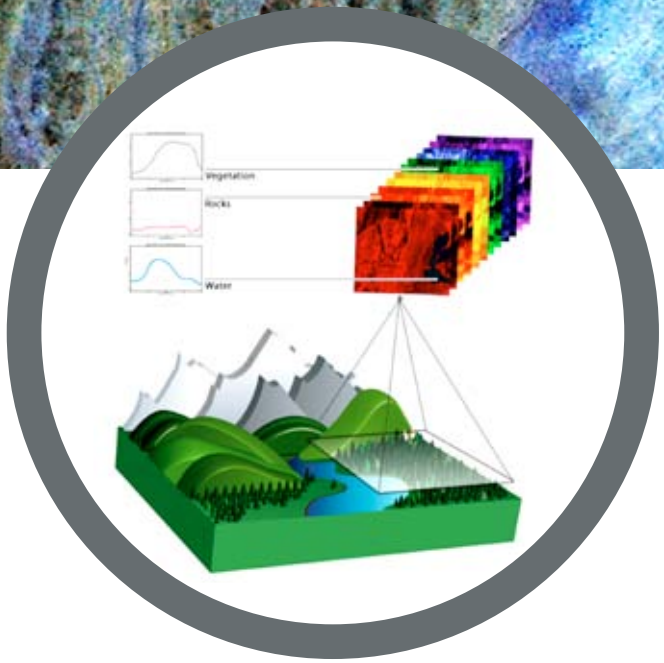
GST offer Airborne Hyperspectral and Thermal Imaging Sensor products, imaging services and solutions for a variety of applications, including search and rescue, heat loss, coastal mapping, forestry, agriculture and environmental monitoring. We also offer a range of products to provide our clients with a complete hyperspectral imaging solution tailored to their needs.

OUR SPECIALIZATIONS ARE

End-to-end advanced airborne imaging sensor design (optics, electronics, software, calibration, real-time and remote-operation hardware, etc.) utilizing patented and proprietary technologies Providing airborne hyperspectral and broadband surveying (mission planning, mobilization, data collection, data product delivery, etc.) from small (< 1.0 square km) to very large (> 20,000 square km) areas

Custom image analysis product and algorithm development

GST offers COTS and custom sensor systems utilizing diffraction-limited optics and detectors spanning the near-UV through to the LWIR.



Up to 288 spectral bands can be recorded for each pixel.

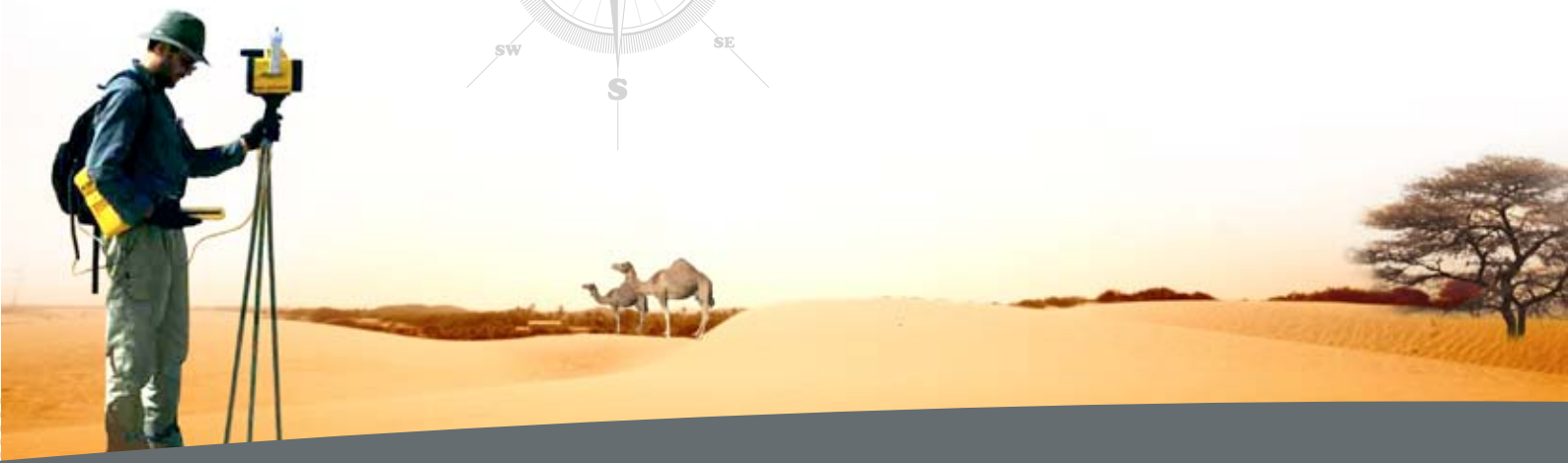
SURVEYING

Utilizing the latest technology available, we provide professional services that allow us to deliver innovative, purpose fit solutions.

We take the time to work closely with our clients and successfully apply innovative technology and expertise to onshore, nearshore and offshore projects, achieve high quality results and help ensure projects are completed ahead of time and within budget.

WE OFFER

- Topographic Surveying
- Hydrographic Surveying
- Metocean Surveying
- Construction Surveying
- Aeronautical Surveying
- Geodetic Control
- Route Surveying Spatial Data Collection



GEOSPATIAL ENTERPRISE MOBILITY SOLUTIONS - GEMS

GEMS provide user friendly Asset Management Solution (EAS) to simplify enterprise field operations and reduce inefficiency.

Our solution increases your staff efficiency by effective management using location intelligence. Our solutions are completely scalable and can be customized and integrated with third party applications.

GEMS FLEET MANAGEMENT

GEMS introduce state of the art fleet management solutions using geospatial tools. Our solutions are most comprehensive and simplify the job scheduling and dispatch process of vehicles. The Fleet Management System utilizes up-to-date technologies to manage the drivers and fleets. One of our core components is the integration of Near Field communication in mobile applications for driver and dispatch management.

Automated scheduling and monitoring is one of user friendly modules that help our customers relax and operate large fleets. Fleet resource leveler module is our recent release that helps customers avoid un-met demand and idle time, thus enabling systematic management of the fleet.

GEMS WORK FORCE MANAGEMENT

GEMS bring effective solutions to Track and Trace your resource online, guarantee job progress and enhance client satisfaction. Our solutions automate and simplify the job scheduling and dispatch process of mobile workforces thus providing complete visibility and effective management of mobile workforce schedules, tasks, work orders, assets, timesheets, reporting and more.

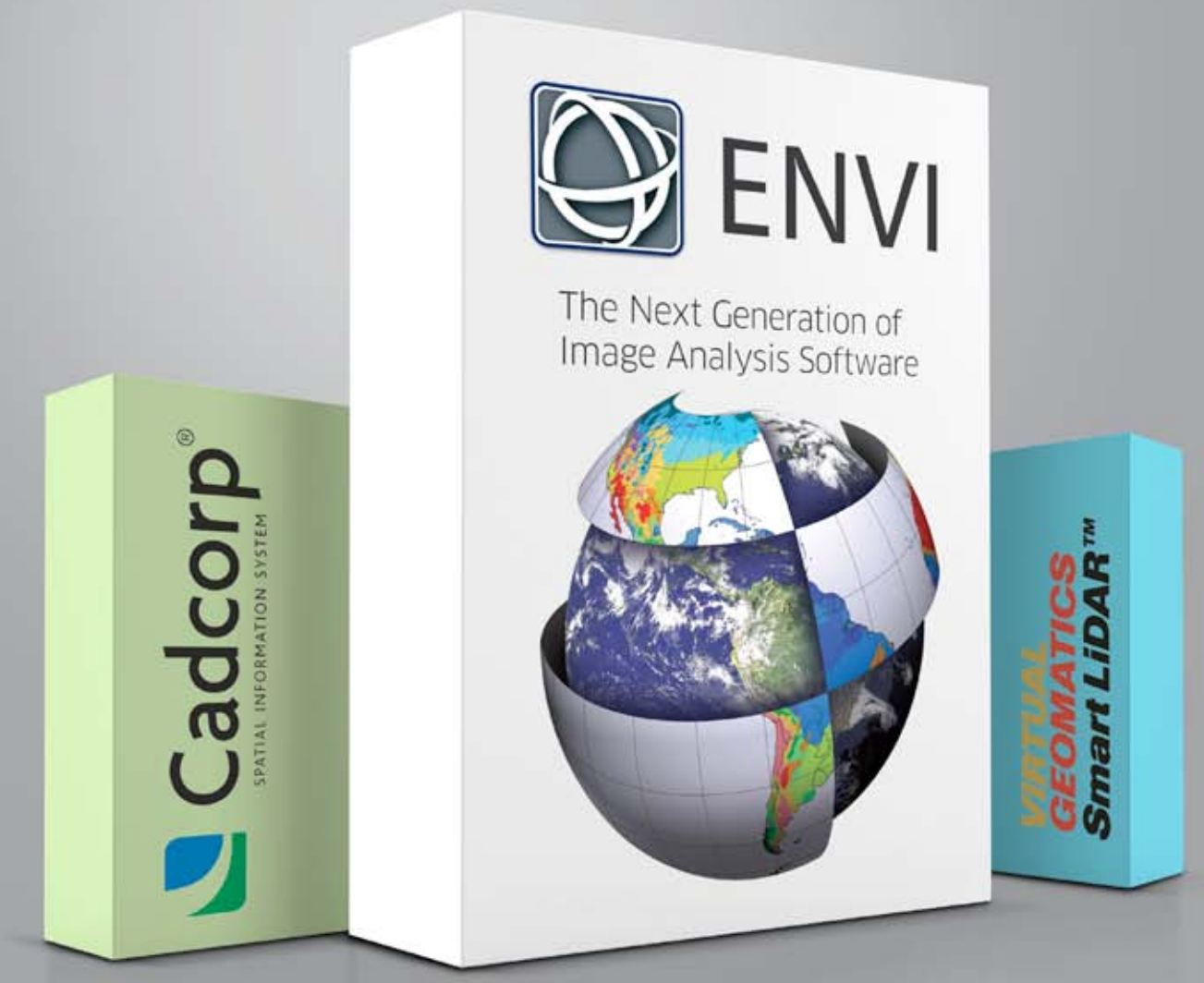
GEMS modules for workforce management includes Geo-Data collector, Geo-Scheduler, Enterprise Resource Leveler, Geo- Tracker and Analyzer.

GEMS ASSET MANAGEMENT

GEMS contribute solutions to effectively manage machinery and other assets. The Asset Management solution utilizes the latest technologies such as GPS, Radio frequency Identification and Near Field Communication as tools to monitor the real time status and utilization of various assets.

Our solution provides visibility for all your assets utilization in real time and thus enables you to take immediate actions. Easily access, monitor and create reports for asset rental, location and operation hours from our web based application.

SOFTWARE



GIS: Image Processing & LiDAR

GST is authorized reseller of leading software in the GIS, image processing and LiDAR industries

GIS

Cadcorp

Remote Sensing

ENVI + IDL, Scan Magic & Scan Process

LiDAR

Virtual Geomatics 4D, Innovmetric Polyworks, Z-Map

TRAINING AND CAPACITY BUILDING

Take your GIS and Remote Sensing skills to the next level with classroom training. Our classroom training courses are designed and instructed by subject matter experts.

If you have a large team that could benefit from expert lead Remote Sensing training, then let GST come to you. During an on-site training class, one of our remote sensing, image analysis or data visualization experts will host a training session at your location and customize the course to fit your needs.

CONSULTANCY SERVICES

Our company provides unbiased advice and consulting related to geospatial, geomatics, remote sensing and earth observation and natural resource monitoring to industry, governments, academic and international agencies.

SPECIFICALLY WE HELP YOU TO

- Learn what efficient Geospatial Technology can achieve
- Get the maximum benefits of Geospatial Data
- Improve the use of internal remote sensing and GIS capabilities
- Create proper workflows for a cost-effective solution

- Strategic Planning
- Technology Assessment & Needs Analysis
- Future Studies and Assessments
- Program Development and Evaluation
- Change Management
- Technical Writing and Workshops
- Strategic Partnering

PARTNERS

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Group of Company