



Geographic Data Services

Motorola Geographic Information Systems (GIS) and Remote Sensing Engineering

Motorola Geographic Data Services (GDS) provides customized GIS solutions and digital data for the telecommunication and other industries across diverse markets. Our GIS specialists have in-depth knowledge and experience and offer exceptional technical and post-sales support. By adhering to rigorous quality control procedures, we deliver accurate and precise geographic data products. In addition, our extensive off-the-shelf data archive features terrain, land cover, transportation networks and building layers.

Global data coverage including 112 countries and over 750 cities

Map library consisting of 75,000 map sheets

Expertise in custom data and applications

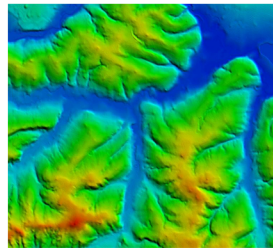
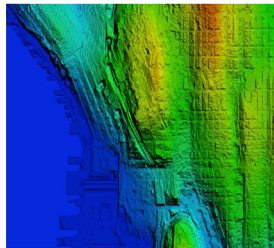
Employs latest techniques of automation to maintain high data quality and accuracy standards

High performance hosted GIS Server to meet a variety of application needs

Established relationships with vendors to leverage regional and specialization strengths

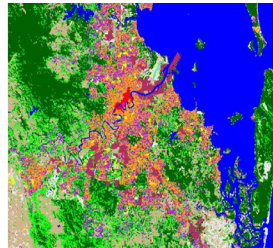
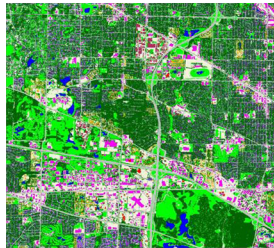
State of the art software tools for high resolution data

Over 16 years of industry knowledge and expertise



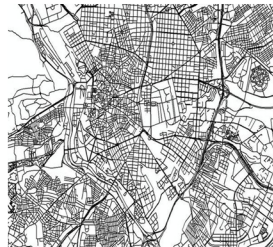
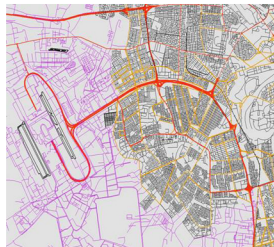
Terrain (DEM)

Motorola GDS digital elevation models are created from the best available source materials including topographic maps, LiDAR and IFSAR. Topographic mapping data undergoes a series of advanced algorithms and processes to produce a natural and realistic model of the earth's surface with accurate elevation values. When requested, multiple source materials can be integrated to produce a seamless elevation model.



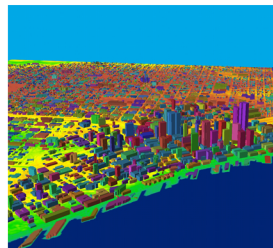
Land Cover

Motorola GDS produces highly detailed and accurate clutter databases. Our technicians have developed unique classification algorithms and processes resulting in efficient and cost-effective solutions. Various classification schemes and resolutions are available to meet customer specifications.



Transportation Networks/Vectors

Motorola GDS vector databases include road networks categorized into multiple road classes, railroads, and other base map features such as administrative boundaries, rivers and coastlines. Vector features are derived from both topographic maps and satellite imagery and can be customized to fit specific applications.



3D Buildings

Motorola GDS automated and manual processes are employed to generate 3D buildings with assigned height values based on either interpretive analysis, actual or estimated heights. Sources for creating buildings footprints include high resolution orthoimagery, stereo aerial photos, and LiDAR.



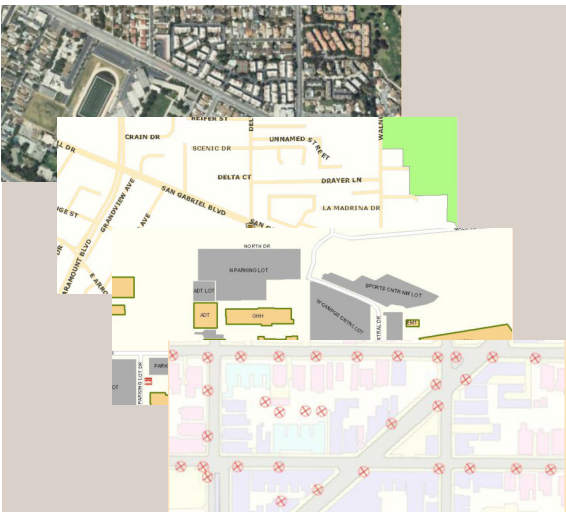
Change Detection

Quick change detection methods enable feature change recognition. Detected changes can be classified and merged with vintage datasets to output present LULC in a more cost effective way than creating new data.



Location Based Services

- Motorola Mobile Advanced Location System (MALS)
- GIS Server provides maps and POI's
- Rich Application Suite including Friend Finder, Child Finder, Locate Me, Points of Interest Finder, Navigation, Fleet/Workforce Management, Location Based Advertisement
- LBS Middleware integrates Motorola solutions with customer network



Facilities Management/Asset Management

- Convert, project and import custom infrastructure layers into a GIS mapping environment
- Integrate georeferenced infrastructure layers with background imagery, transportation, landmark and other reference layers for fast and accurate orientation
- Manage, organize, view and edit infrastructure assets in a realistic, georeferenced environment
- GPS Modem communicates via Internet to In-house connection. Receive information at Control Center, on In-Vehicle Devices or Tablet PC. Make secure, real-time updates to infrastructure data layers by technicians in the office or in the field
- Monitor fleet vehicles and route mobile assets as needed, including sending street by street directions to workers in the field

GIS Data/Web Hosting

- Server Solution supports industry standard protocols and interfaces for integration with the applications
- Customized database including utility infrastructure layers and GIS Base mapping (satellite imagery, attributed road networks, etc.)
- Ability to interface with custom databases and servers (fleet tracking, work management, etc.)
- Secured Server platform that grants connections only to authorized users at the Server level as well as Application (Web Service) level

Digital Mapping Services

Terrain (DEM)

Land Cover

Vectors
(Transportation, Administrative Boundaries, Hydrology)

3D Building Footprints

Change Detection

Data Conversion, Customization and Integration

GIS Services

Location Based Services

Facilities Management/Asset Management

GIS Data/Web Hosting



Motorola, 1421 W. Shure Drive, Arlington Heights, Illinois, USA 1-847-435-4243
GEOGRAPHIC DATA SERVICES | WWW.MOTOROLA.COM/MAPS
MAPS@MOTOROLA.COM | 1-847-435-4243



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