

An aerial view of a city with a river and a grid street pattern. The river is blue and winds through the city. The streets are a light brown color, and the buildings are a darker brown. The overall color palette is warm and earthy.

RMSI



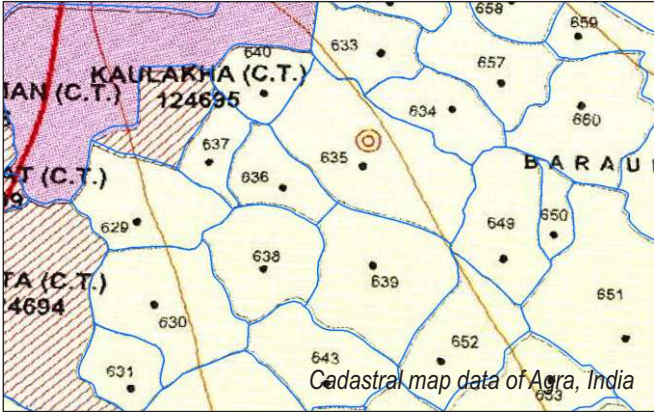
MAPPING

Enabling governments to implement large scale programs that leverage geospatial technologies

RMSI helps governments and national mapping agencies to implement geospatial solutions for better governance. Our solutions bring a paradigm shift in implementing policy decisions to integrate business processes and improved decision making through intelligent spatial information.

RMSI is one of the world's leading providers of digital map data development, maintenance, and enhancement services. RMSI has vast experience in providing mapping solutions in the field of land reforms, land use planning, urban & rural development, environmental policies, municipal GIS, and smart city development. Our mapping solutions facilitate effective management of information, integration of processes, increased productivity, performance, transparency, and more informed decision-making.

Map Service Portfolio



GIS Data Conversion

RMSI GIS data conversion services includes large scale digitization of complex conversion projects, which requires creation of data from multiple sources of varying scales, vintages, and quality. These sources are a combination of topographic maps, CAD drawings, satellite imagery, aerial photographs and observations from field surveys. Our integrated processes for conversion include :

- Scanning, digitizing, data layering, and geo-positioning
- Linking of spatial data with textual data, statistical batch quality assurance
- Topological cleaning and translation into final output

Geospatial Database Updation

RMSI's proprietary methods to create, enhance, and maintain geodatabases enables us to maintain extensive information while recreating features from the current imagery and other input sources, including:

- Geo-enabling legacy databases
- Geodatabase model designing
- Enhancing existing geodatabases
- Allowing interoperability between geospatial databases



Geocoding

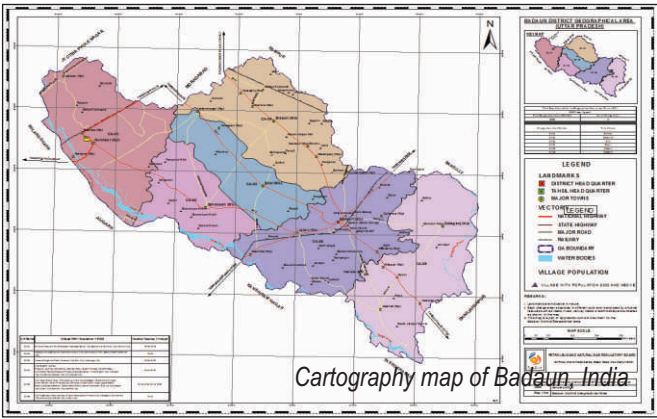
RMSI has project specific engines for geocoding of addressable and non-addressable data. Our robust engines use both spatial and non-spatial reference data to accurately geocode locations either automatically or interactively. Our automated workflow management system queues input datasets based on pre-defined priorities and parameters, delivering large volumes of high quality output data, timely.

- Data cleansing and address enhancement
- Accurate geocoding (Latitude / Longitude) up to street level

Survey Management

RMSI has extensive experience and expertise in field survey data management that supports large scale projects including smart data collection survey solutions based on customized GPS / PDA application, mobile video mapping, DGPS surveys, total station surveys.

- Management of client survey resources
- Field data collection using customized devices
- Offsite data processing and finalization

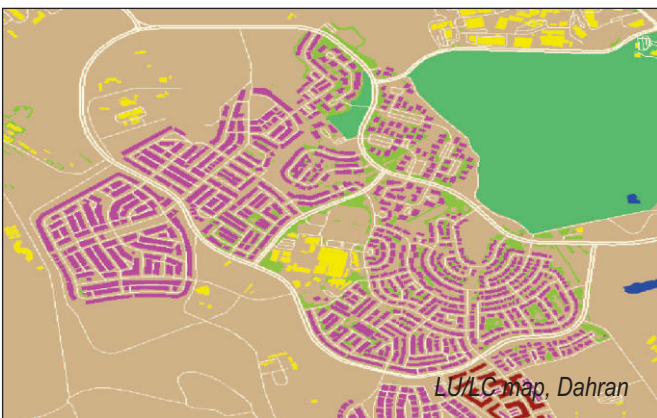


Cartography & Mapping

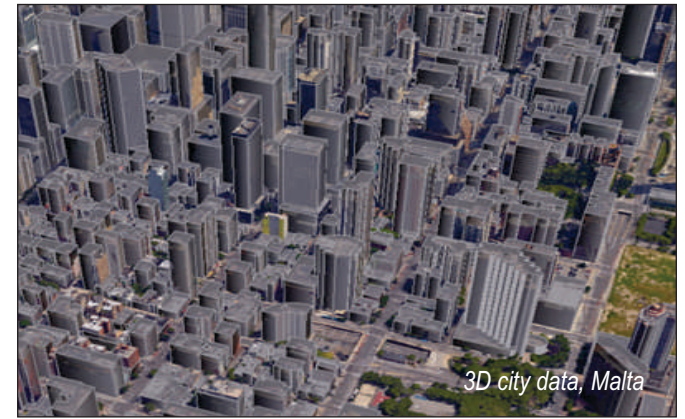
RMSI has digital cartographic capabilities that extend the usefulness of existing geospatial, CAD, and paper data resources. We deliver customized solutions that can be modified to provide additional value add services, such as modifying a geo-database for a specific country that enables provision of wall, fold, or flip maps, or regional and country map products. Our key solutions include:

- Annotation generation, cleaning, and placement
- Expertise in map furniture, layout design, text and bridge placement
- Cartography styled digital data on all leading platforms

Imagery Portfolio



Remote Sensing Data Processing & Analysis



3D Geodatabase

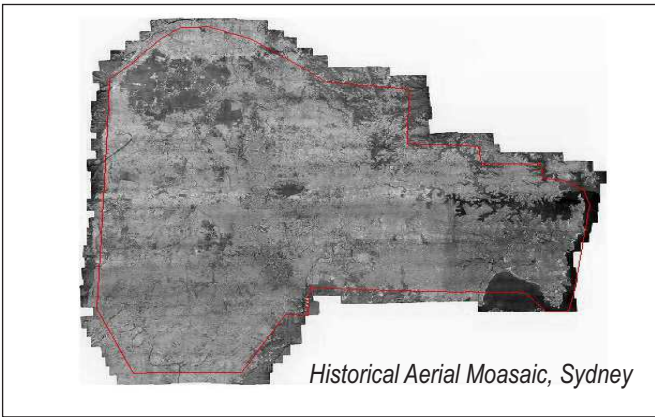
RMSI has its own proprietary photogrammetric tools and commercial photogrammetric softwares and processes for 3D geodatabase creation. Our services include:

- 3D city models
- 3D features' extraction
- 3D cadaster data model
- Photorealistic 3D landmarks & building data

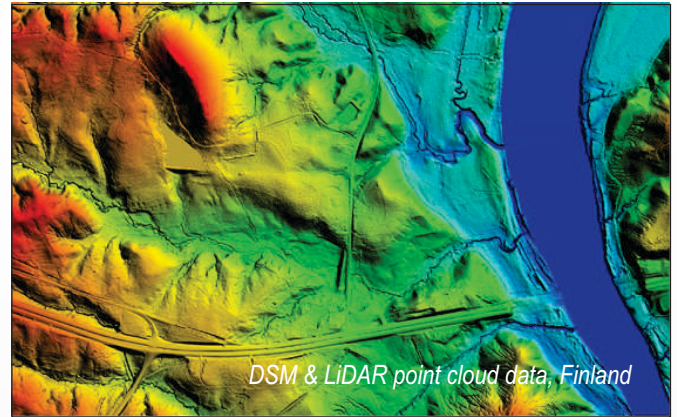
RMSI's remote sensing solution ranges from satellite image procurement from national & international agencies and imagery providers to image processing, interpretation and analysis for various applications such as land use planning, natural resource management, etc.

Our services are used for macro level applications, including:

- Seamless raster data products
- Terrain mapping & digital elevation modeling (DEM)
- Land use/ land cover (LULC) classification
- Change detection mapping & analysis



Historical Aerial Moosaic, Sydney



DSM & LiDAR point cloud data, Finland

Photogrammetry

RMSI's digital photogrammetry services provide an efficient and cost-effective method of topographic mapping, DEM-generation, orthophoto generation and mosaicing. Using photogrammetry approach, we have created 3D geodatabases for 95 cities, worldwide. Our key service offerings include:

- Triangulation (satellite & aerial)
- Stereo data compilation
- Ortho-photo generation
- Terrain modeling and 3D visualization
- Cartography and thematic mapping

UAV Image Ortho-rectification

By using photogrammetry techniques, RMSI delivers orthorectified images which are geometrically accurate & uniform in scale. Providing solutions in different industries such as agriculture, construction, environment, asset management, infrastructure and engineering, RMSI provides specialized image processing services:

- Geo-rectification and Ortho-rectification
- Feature extraction from UAV ortho photo
- Thematic mapping using UAV ortho photo

LiDAR Data Processing

RMSI offers processing of high precision LiDAR datasets in Computer-Aided Design (CAD) and Geographic Information system (GIS) formats. We work on commercial as well as open source software for LiDAR data processing. Key services include:

- LiDAR point cloud classification
- Bare earth classification
- Power line and asset mapping
- HD navigation map creation

Off the Shelf Geo-Data

RMSI's off the shelf data consists of Digital Terrain Model (DTM), vectors, clutter (land use), ortho image; created from commercially available satellite imageries / maps. Various types of geospatial datasets available are:

- 3D building data
- 2.5 D datasets
- City level datasets
- Regional level datasets

“ Providing image processing services to create and update geographic datasets for a variety of end users - Ranging from geospatial data capture, land use planning and urban and rural infrastructure planning to maintenance using both VHR to low resolution imagery.

Key Application Areas



Central and
State Government



Property Information
Providers



Real Estate
Developers



Municipal
Authorities



Telecom
Companies

Success Stories

- Geospatial data capture and maintenance services for the National Mapping Agency of UK
- Digitization of 5,000 cadastral field sketch maps using ML based VeCToR tool in Netherlands
- Development of land records information management system (LRIMS) for Nepal
- Ortho-rectification and seamless mosaicing (historical aerial photos), Australia
- Countrywide digital mapping, Ireland
- Web based system for managing agricultural schemes, Wales
- 3D data for rolling out next-gen networks in Malta
- Landuse landcover change identification using multi-temporal satellite imagery, 75 countries

About RMSI

Over 4000+ professionals work with us

Technology Partnerships - Esri, Oracle, Microsoft, GE,
BEA Systems

Quality Certifications - CMMi level 5, ISO 27001,
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Strategically located three development centres in India,
and five global subsidiaries in U.S, Canada, U.K, U.A.E, & Australia

Track record of having implemented some of the largest
geospatial projects across the world



For more information, please contact info@rmsi.com, or visit www.rmsi.com

