



SATPALDA GEOSPATIAL SERVICES



Strategic Advanced Technology Products and Linkages Development Agency (SATPALDA) is an ISO 9001: 2015 certified company and a leading provider of satellite imagery and geospatial services to the user community. Established in 2002, SATPALDA has successfully completed a wide range of photogrammetric and remote sensing projects.

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Geospatial Solutions for Mining Industry

Since most mines cover large expanses of land, managers require access to volumes of location-based information to guide the operation. For this reason, mine management can easily be managed with the help of Remote sensing and GIS.



The business of mineral exploration and extraction is inherently spatial. Since most mines cover large expanses of land, managers require access to volumes of location-based information to guide the operation.

Remote Sensing and GIS a versatile tools for gathering, storing, and accessing

geographic information quickly and easily. During the planning of the new mine

sites, during mine operation, and after closure (rehabilitation), remote sensing

methods can be used to obtain necessary information, monitor changes and

monitor effects of actions.

Topographical Information



Detailed topographical maps and 3D models can be derived from satellite imagery, which can help in studying geomorphological features and hydrological features, optimizing mine planning and minimizing environmental impact

Land Cover and Vegetation Monitoring

Vegetation maps are often required to assess the biodiversity in the area, help in determining the best location of the mine structures and establish a baseline to assess possible environmental impact. It also helps in revealing contamination causes through leakage, dam failure, spreading of dust, etc. After mine closure, vegetation recovery and health can be used as an indicator to assess the results of mine rehabilitation or to detect and monitor remaining contamination.



Mineral Exploration



High-resolution satellite imagery provides valuable information about surface mineralogy, electromagnetic gravity and radiometric and seismic investigations to map the subsurface geology. This technique is based on the characteristic absorption features in the spectrum for the different minerals.

Mine Contamination Monitoring

Remote sensing techniques can be used to detect, map and monitor the extent of ARD and the effect on the environment in and around mine sites, and can contribute and additional information to help control ARD and monitor the efficiency of rehabilitation measures.



Mine Closure and Reclaimation



Remote Sensing & GIS is used for monitoring and reclamation by analyzing and mapping soils, vegetation, surface hydrology, and groundwater. GIS mapping allows rapid sizing and plotting of mine openings, waste piles and cultural features for accurate drawing and quantity computations during office design of the closures.

Mining solutions at SATPALDA :

- · High-resolution satellite imagery for planning and monitoring of mining.
- High resolution and multi-band orthorectified imagery for the clear texture of soil and vegetation.
- Precise and accurate DTM for topographical information and volume calculations.
- UAV imagery, videos and processed data of the active sites.
- Cut-II analysis based on ultra-high-resolution imagery (UAV).
- Environmental impact assessment is based on various indices derived from RS data.
- Change and encroachment detection with temporal data.
- LULC maps and hydrology study inside and near the site.

To know more about other sectors we serve our services, Please

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Products of SATPALDA



DTM

Digital Terrain Model (DTM) is a bare earth (DSM) represents the detailed model that generated using reflective surfaces of stereo pair of trees, buildings, and imageries. Such other features models become an integral part of "Bare Earth". It topographic surveys. represents the earth's These models are surface and includes also used to generate contour maps.

Digital Surface Model is elevations of the elevated above the all objects on it.

DSM



3D Building

3D building provides a visual representation of the built environment and provides analysis and interpretation of urban landscape on an unprecedented level.

SATPALDA is a leading provider of geospatial products and services. The company is also a reseller of multiple satellite data products and has a proven track record of delivering project-critical geospatial products, including satellite imagery, UAV imagery, 3d models, elevation models, GIS, LULC maps, planimetry, terrain solutions and many more.

To know more about our 3D products :

Visit our Website

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