



Satsense Solutions Ltd
Remote Sensing | Geospatial Analyses

RIGHT OF WAY MONITORING SERVICES

Right-of-way (ROW) is the access or easement granted over land or property to allow for the building and maintenance of transportation networks (highways and rail lines), power networks (electrical transmission lines) and resource networks (water, oil & gas pipelines). A ROW is maintained for safety of the network and to allow for inspections, maintenance and in some cases, expansion of existing networks.

Satsense® Right-of-way Monitoring Service provides an effective and reliable solution for continuous monitoring of networks to ensure ROW is maintained and is free and clear of possible obstructions.

What is the Satsense® Right-of-way Monitoring Service?

Satsense Solutions Ltd. uses remote sensing data from space-borne satellites to monitor areas around transportation, power and resource networks and report on changes in land cover, obstructions or encroachments around these networks.

- ▶ ROW boundaries are clearly demarcated
- ▶ Land cover in and around the ROW is classified
- ▶ Possible obstructions and encroachments are identified
- ▶ High risk and High Consequence Areas are highlighted
- ▶ Targets for on-ground inspections are established





How are the services provided?

Network maps and/or site locations are specified by the client. ROW is monitored remotely without the need for on-site surveys or inspection. The results and findings can be provided in the form of imagery, Geo-TIFFs, tabulated data or in report format, as per requirements.

Land cover classification along ROW indicating encroachment (L) Corresponding true color satellite imagery (R)

Why use these Services?

Satsense® Right-of-way Monitoring Services provides the following benefits:

- ▶ Cost-effective as networks spread across large geographic areas can be regularly monitored without the need for on-ground patrolling
- ▶ Convenient as remote, difficult to reach or dangerous to inspect areas can be covered
- ▶ Efficient as targeted field operations and on-ground inspections can be carried out based on remotely identified ROW breaches
- ▶ Risk mitigation as accidents and damage to infrastructure can be prevented by regular continuous monitoring
- ▶ Time lapse can be established to investigate root cause and aid prevention

Who can use these Services?

Satsense® Right-of-way Monitoring Services can be used by a variety of businesses and governmental agencies, such as:

- ▶ Oil and water pipeline operators to ensure pipeline is free of illegal tapping
- ▶ Electric power transmission companies to ensure there is no dry vegetation below transmission lines and within ROW area in order to prevent risk of wildfires
- ▶ Gas transmission companies to monitor unauthorized excavations and accidental damages to pipelines
- ▶ Railway companies to monitor tree growth and vegetation along tracks
- ▶ Highway operators to prevent encroachment near roadways to ensure safety and future expansion

Satsense Solutions Ltd. applies Remote Sensing technology to provide unique & innovative business and governance solutions.

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Disclaimer: Remotely sensed data are generally recorded under changing environmental conditions, which might impact the accuracy of output data. Although results are based on well established methods and tools are thoroughly validated for accuracy, remotely sensed data are subject to natural variations of the atmosphere, local conditions etc. therefore Satsense Solutions Limited cannot take any responsibility caused by the usage and interpretation of remote sensing products. As with all measuring tools / systems, calibration based on in-situ data is recommended.

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