

Spottitt Presents Cloud-based Geospatial Data Analysis on DNV GL's Veracity Platform



Spottitt has launched a cloud-based workspace that puts massive satellite imagery sources and advanced analysis capabilities at the fingertips of energy, environment and infrastructure professionals. The Spottitt service is available now through Veracity, DNV GL's industry data platform and online marketplace. The platform provides users with everything they need to extract valuable information from satellite imagery and related datasets in a secure, self-service cloud workspace, according to Spottitt's CEO Lucy Kennedy. With Spottitt, clients do not need powerful computers, image processing software or formal GIS training to leverage the value of geospatial data.

Effective immediately, users may set up a Spottitt account through the Veracity digital marketplace. DNV GL, a global quality assurance and risk management company based

in Norway, established the Veracity ecosystem to provide easy access to databases, analytics, and applications for its worldwide customer base in energy, maritime and other industries.

Multiple satellite image sources

The Spottitt online portal gives users instant access to multiple satellite image sources, including open source data from the U.S. Landsat and European Sentinel-2 satellites and sub-meter commercial image products from Airbus Defence & Space and DigitalGlobe. Other geospatial products include Digital Elevation Models (DEMs) and infrastructure feature layers.

A Spottitt user simply defines their geographic area of interest, and the system provides thumbnail images of available data sets for purchase, said Kennedy. The experience is fast, simple and efficient thanks to cloud-based processing and storage.

Data analytics in the cloud

The major differentiator of Spottitt is the powerful data analytics it offers in the cloud. The user selects from a variety of enhancement and information extraction algorithms that can be applied to their chosen data set. Designed primarily for use in energy, environmental monitoring, and infrastructure development applications, these analytics functions include the following:

- Land Cover Classification
- Building Recognition Analysis (Footprint extraction)
- Normalized Difference Vegetation Index
- Normalized Difference Water Index
- Rule-based Greenfield Selection
- Rule-based Wind Turbine Site Selection

Analytics results are delivered to the client workspace for viewing, editing, and further manipulation within Spottitt, said Kennedy. They can be shared with other users or downloaded in GIS-ready formats into other mapping software environments.

Spottitt fields of application

The Spottitt solution has already been used extensively in the renewable energy and infrastructure management fields. Energy firms have used it to select the optimal locations for wind turbines by mapping land cover and terrain characteristics in areas of interest. The Spottitt building recognition and change detection analytics are ideal for energy utilities to monitor changes and risks in infrastructure assets over time.

Spottitt workspaces are securely hosted in the Microsoft Azure cloud, giving clients access from any browser-equipped device at any time. Clients are offered the option of paying for imagery and processing as they go or under subscription arrangements.

To learn more, visit <https://go.veracity.com/SpottittEnergy>.

