IMINT
Image Intelligence (IMINT) Center

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The IMINT Center is a multifunctional, intuitive, user-friendly platform designed to meet the pressing requirements of modern-day image and geospatial intelligence analysts – providing high-level GIS data integration, processing, visualization, exploitation as well as analysis across space and time.

Utilizing a wide variety of available overt and covert data sources, from satellite to aerial imagery, the IMINT Center provides its users and analysts with state-of-the-art GIS manipulation and querying tools, coupled with real-time warning and alerting capabilities, allowing for maximum situation awareness to effectively support a myriad of critical missions and operations spanning multiple industries.

## Learning Model Creation via AI and Machine Learning Algorithms

Importantly, the system's modularity and capabilities allow for users to create their own learning database through the use of the labeling tool, to build training datasets by extracting objects of interest from satellite or aerial imagery.

Notable Use Cases

The IMINT Center is capable of being utilized across a number of areas, spanning object identification through to area change monitoring and analysis.
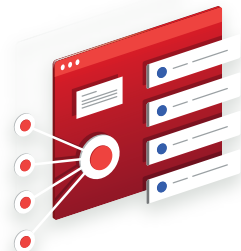
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Labelling Tool	Learning Data Base Creation	Automatic Detection on IMINT Center	Alerts & Reports Generation

Multiple Intelligence Sources

The IMINT System receives numerous types of data from a variety of different sources, whether it be from commercial or open-source satellites, digital mapping aerial platforms, orthophoto, UAS video feeds as well as base maps and DEM.

Such data is integrated and fused into the IMINT database, whereby users could exploit this data for further image interpretation, querying and analysis.
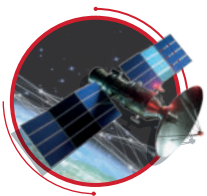
Commercial Satellite Imagery
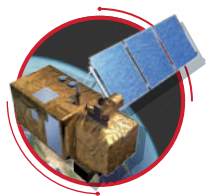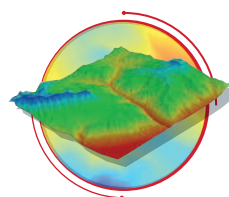
Open-Access Satellite Imagery

Digital Mapping Aerial Imagery

Base Map

UAS video

DEM

Vessel Detection and Identification

- Detecting and identifying vessels as well as essel types;
- Utilizing satellite (SAR/optical) and aerial imagery;
- Labelling tool can be used to create learning base for different classes/sub-classes of vessels.

Urban Change/Area Change Detection

- Comparing images from multiple sources over time;
- Users are able to label areas and assign them to different categories (e.g. agricultural, residential, urban), in which models can be created to effectively identify specific areas.
- Urban change detection and analysis of high-resolution imagery for building detection as well as tax collection and verification purposes;
- Clearly visualizing long-term changes to areas over time.
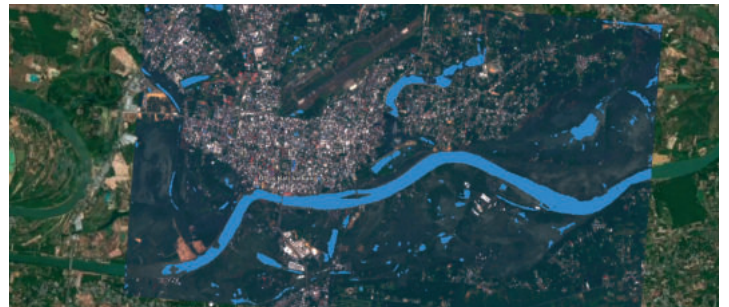

Before   After

Disaster Area Monitoring

Flood Mapping:

- Evaluation and generation of simulation models of affected areas;
- Comparing images over time from multiple sources and resolutions to clearly identify types of affected areas through labelling tool;
- Provide instant reporting and statistics.

Forest Fire Detection:

- 3D simulation of forest fires, including possible severity and affected areas;
- Alerting/warning capabilities to assist deployment of
- Unmanned Aircraft System (UAS) operations;
  Information can be received from multiple types and sources;
- Multi-client capability allows for operator monitoring of different areas simultaneously by several users, allowing for effective and efficient response.

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