IMINT

IMAGE INTELLIGENCE CENTER

IMINT

IMAGE INTELLIGENCE CENTER

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SECTION
INTRODUCTION

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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.

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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.

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LEARNING MODEL CREATION

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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.
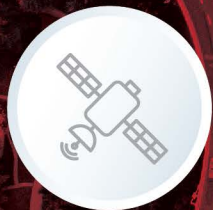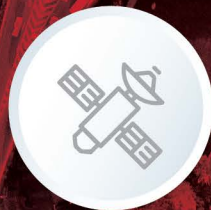

Labelling
Tool

Learning Data
Base Creation

Automatic Detection
on IMINT Center

Alerts & Reports
Generation

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NOTABLE USE CASES

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Commercial Satellite
Imagery

Open-Access Satellite
Imagery

Digital Mapping
Aerial Imagery

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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.
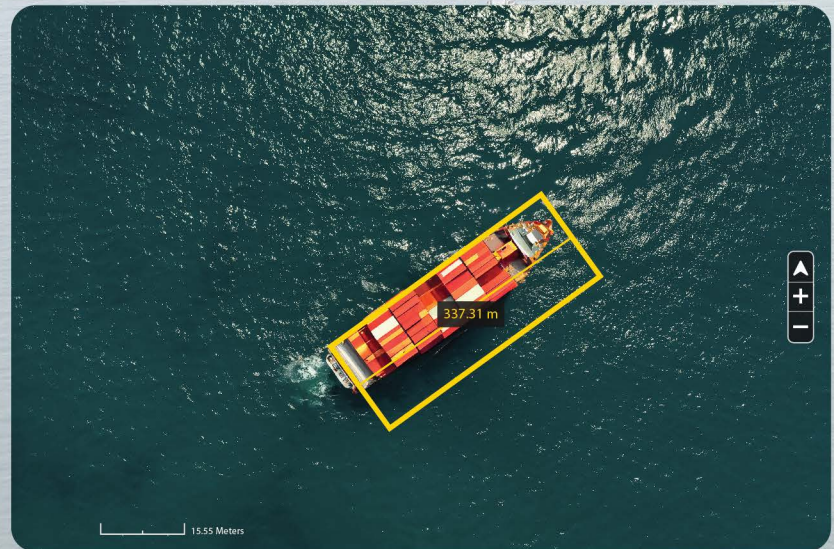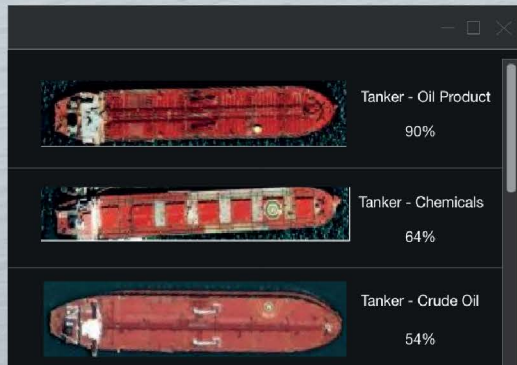
Base Map

UAS Video

DEM

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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.

Tanker - Oil Product
90%

Tanker - Chemicals
64%

Tanker - Crude Oil
54%

337.31 m

15.55 Meters

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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

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URBAN CHANGE/AREA CHANGE DETECTION

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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.

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FLOOD MAPPING

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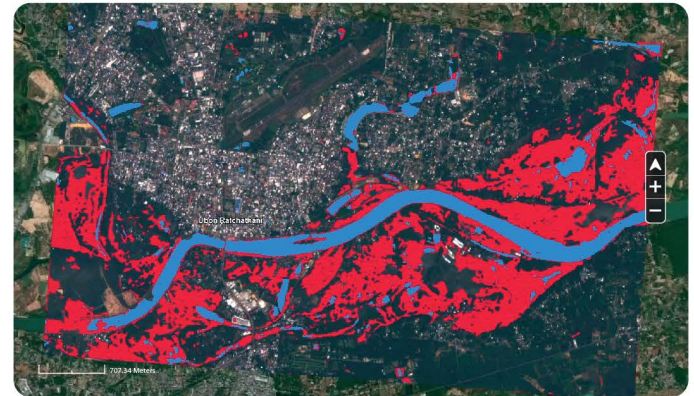
FOREST FIRE DETECTION:

- 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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FOREST FIRE DETECTION

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Cutting-edge Image and Geospatial
Intelligence Meet Precision and Insight.

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Made in Thailand

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Disclaimer: In keeping with our policy on continuous product
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