VEGASTAR GEOSPATIAL
OBJECT DETECTION

Vegastar Geospatial Object Detection (VGOD) is a powerful tool that utilizes Deep Learning to identify objects (including buildings, vehicles, vegetation regions etc.) from optical remote sensing data. This product offers **high accuracy** in object analysis and helps **monitor geographic area changes** over time.
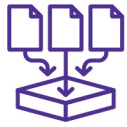
Developed by Vega Star Technology Company, VGOD can be flexibly integrated into popular geospatial data analysis and visualization software, providing convenience to users. This enables them to perform detailed analyses and make decisions based on reliable information from remote sensing data.

PRODUCT CODE: VGOD

VEGASTAR

VGOD **OPERATING PROCEDURE:**

AUTOMATING INPUT DATA **PREPROCESSING**

AUTOMATIC **OBJECT RECOGNITION**

AUTOMATICALLY **EXPORT OUTPUT RESULTS**

ADVANTAGES OF VGOD:

✔ **OPTIMAL PERFORMANCE:** VGOD employs advanced technology to automatically analyze images from optical remote sensing data sources; accurately and efficiently identify objects; and optimize processing while minimizing user time and effort.

✔ **FLEXIBLE DATA INTEGRATION:** The recognition results are exported in .csv and .shp formats, compatible with geospatial data analysis software such as QGIS, ArcMap, or can be integrated into GeoHub platform.
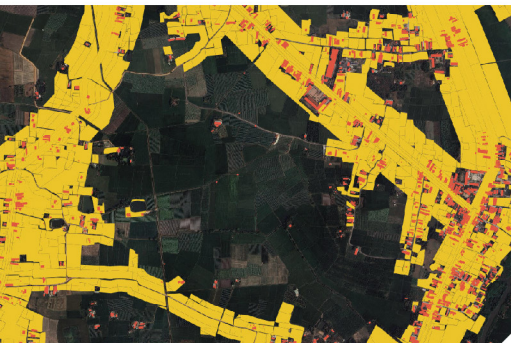
✔ **MAXIMIZING DATA SECURITY:** Data is processed and stored on the personal computer or local server, ensuring privacy and security for users.

✔ **DEEP LEARNING MODEL TRAINED IN VIETNAM:** VGOD has been trained with high-quality datasets, using the advanced YOLOv5 model, optimizing the recognition performance and accuracy.
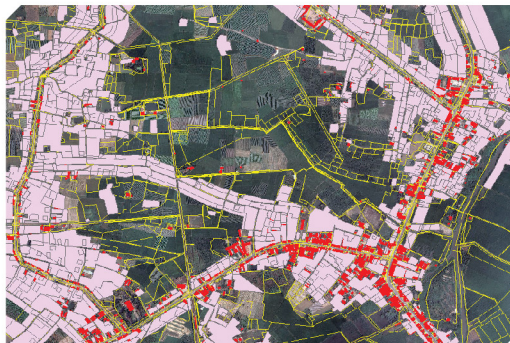
✔ **SUPPORT FOR MANAGING VIOLATORS:** VGOD recognizes violation objects, supports management and supervision in the protection of sustainable resources and environments.

VGOD'S **APPLICATION:**

MONITORING & DETECTING PLANNING VIOLATIONS IN CONSTRUCTION

IDENTIFYING COMPENSATION OBJECTS FOR LAND CLEARANCE AND MORE

MONITORING & MANAGING MINERAL EXTRACTION ACTIVITIES

AND MORE

▶ **APPLICATION IN VARIOUS SECTORS**

AGRICULTURE
(Agriculture, Forestry, Fishery, Aquaculture, Irrigation)

NATIONAL SECURITY - DEFENSE

URBAN & SMART CITY MANAGEMENT

FOREST RESOURCE MANAGEMENT

MARITIME SECURITY

BUSINESS INTELLIGENCE

NATURAL DISASTER MANAGEMENT, AND SEARCH & RESCUE

RESEARCH AND TRAINING

ENERGY AND INFRASTRUCTURE MANAGEMENT

MAPPING

ENVIRONMENTAL RESOURCES

FINANCE AND INSURANCE

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