PRODUCT OVERVIEW

LOCATION-BASED ARTIFICIAL INTELLIGENCE



Spatial image-based AI models are used for a variety of data analyses and applications requiring strong planning and execution across four key workstreams:

1. **MODEL DEFINITION**
   Begin with the end in mind – target outputs and required outcomes
2. **DATA ACQUISITION**
   Planning, capture, processing and data collation
3. **TRAINING DATA PREPARATION**
   Structure, clean and validate model data
4. **MODEL EXECUTION**
   Run, test against in field inputs, refine and re-learn based on data validation

Our approach is to understand the 'real world' AI model outcomes you are trying to achieve and provide a recommended approach across the key workstreams to achieve these outcomes. Our AI toolbox is scalable, reliable, and actionable when applied to large spatial datasets. Examples of our demonstrated AI model application experience includes:

- Turtle track counts and species identification
- Invasive weed detection
- Automated change detection and reporting
- Biosecurity - Detection of Red Imported Fire Ants (RIFA)
- Forest Inventory, biomass, canopy stratification, plant health

KEY FEATURES

Solutions
End to end expertise in the definition, creation and execution of geospatial AI models

Outcomes
Outcomes-based approach; we will advise you on what you need to achieve your goals

Toolbox
Mature AI toolbox featuring augmentation, training, and model deployment automation

Expertise
Industry-leading knowledge in the planning, capture, preparation, and delivery of training data for spatial based AI models

Flexible Approach
Adaptive, can-do approach to finding solutions

SPECIFICATIONS

Models	Classification, bounding box, segmentation
Image resolution	To specification, from 1cm to 1m image pixels
Image classification	Binary and multi-class
Image labelling	Manual and assisted labelling
Image augmentation	Spatial, colour and texture
Delivery	Offline, edge or cloud

INDUSTRIES

Biosecurity · Mining · Environmental · Forestry

The combination of flexible GTech™ Imagery and LiDAR capture platforms, quality data, advanced AI and easy to use cloud delivery platforms makes the choice simple, speak with Outline today!

Outline IMAGERY AI

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