THE INTELLIGENT, PRECISE, AND BEST VALUE AERIAL SURVEY AND INSIGHT SOLUTION FOR PLANTATION MANAGEMENT

At Insight Robotics, we provide intelligent plantations and agricultural-focused risk management services for precise and early detection of human and natural threats.

Plantation Expert
Our professional team has over 10 years of GIS, computer vision experience, and work experience in top tier plantation companies.

Data Accuracy & Precision
We provide the best solution with highly accurate data acquisition and precise analysis down to cm level.

Patented Advanced Technologies
In-house developed image processing and object identification technologies lead the industry.
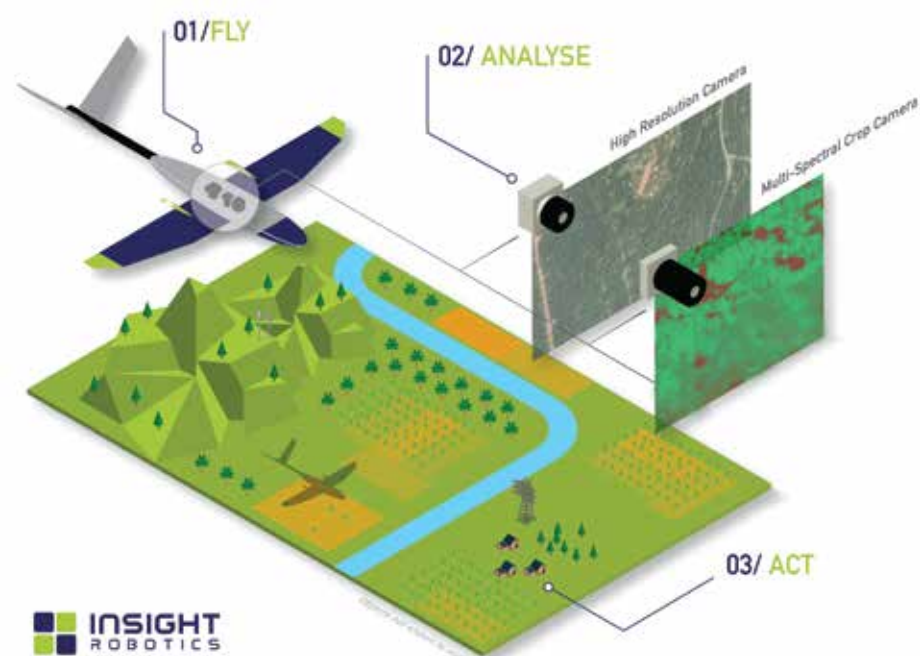
Project Delivery Assurance
Our deep learning & data analytics platform process ten thousands of images in parallel per second. More than 1 million ha of lands have been surveyed.

ADVANCED SOLUTION WITH COMPREHENSIVE WORKFLOW

Our purpose-built RGB and multispectral system captures high-resolution terrain mapping and precise aerial assessments. The data will be processed into useful visualizations of large land area. Decision makers can then respond to threats and manage land to optimize output.

01/ FLY 02/ ANALYSE 03/ ACT
High Resolution Camera
Multi-Spectral Crop Camera

INSIGHT ROBOTICS

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About Insight Robotics

Insight Robotics is a computer vision and deep learning technology company with mission to make the world a better, safer place to live - enable active risk management of the world's assets by generating and making sense of data. We develop automated technology and services to help our customers visualize data across large land areas easily and intuitively so they can assess and quantify the risks and plan accordingly.

insightrobotics.com

CONTACT US TODAY

info@insightrobotics.com
www.insightrobotics.com

Insight Robotics Limited

Distribution partner:

INSIGHT ROBOTICS

ADVANCED AERIAL SURVEY SERVICES

For precision agriculture & best management practice

BEST VALUE — *Best Value*

Intelligent

Precise

Saving the world bit by bit, grid by grid

Advanced Digital Measurement
for Plantation and Agriculture

INVENTORY MAPPING

Our state-of-the-art aerial survey services provide precise and high-resolution terrain mapping and crop assessments. By analyzing and generating information, current status of the plantation (Visual Auditor) can be evaluated – empowering plant owners, landowners and managers to manage more efficiently by providing timely and accurate information about plantations.

Digital Orthophoto Model (DOM)

Cloud free actual aerial view of plantation with high resolution details for effective and efficient assessment. Excellent horizontal and vertical accuracy down to cm.
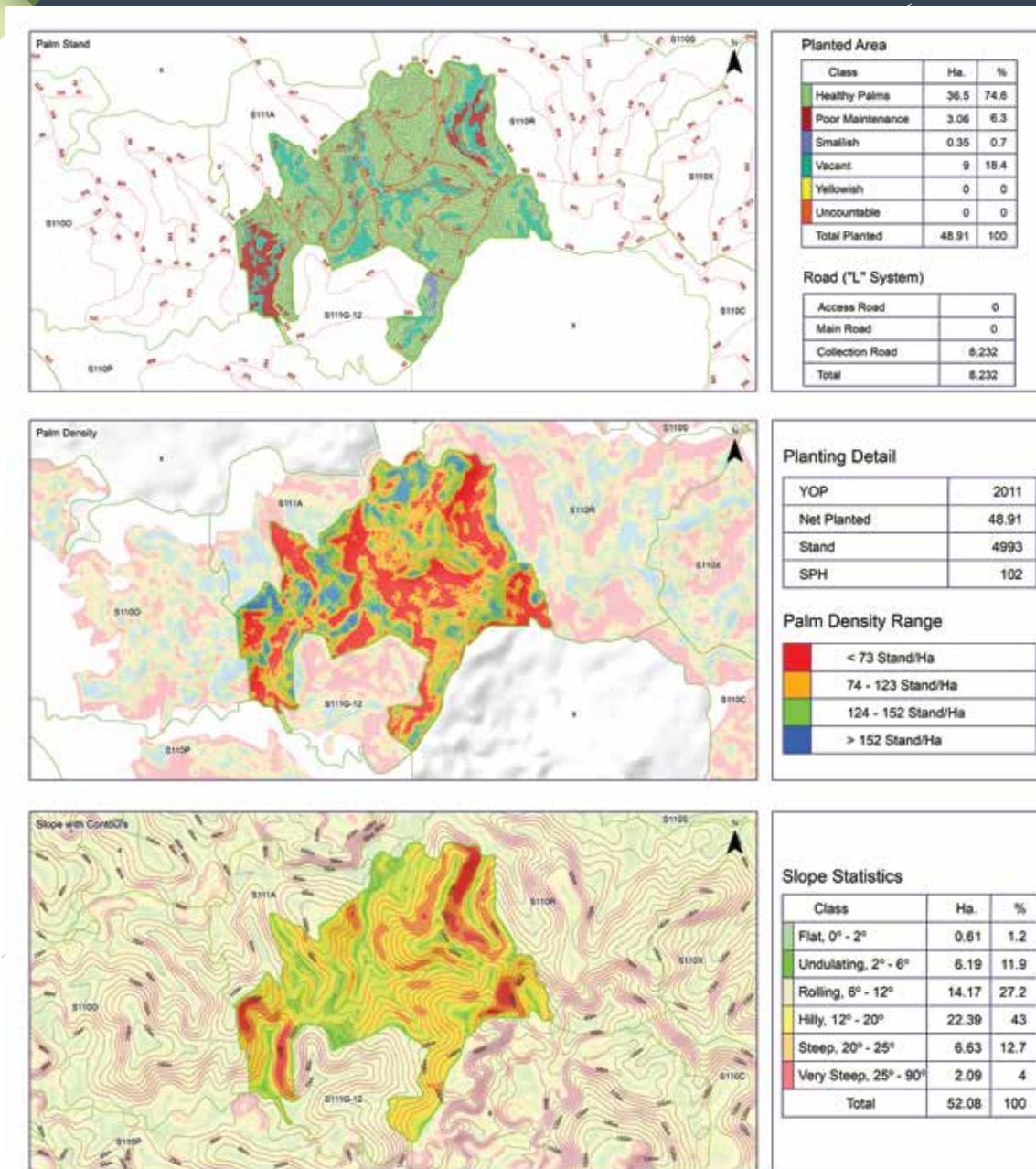
We work closely with you to tailor a package that is suitable to your management needs.

1. Landuse Mapping
2. Palm Census (vacant points)
3. Road Network
4. Drain Network

Block Score Card

A summary report provides critical information such as SPH, Plant Health, Tree Profile, Palm Density, Slope & Contour of each block area for timely and effective management.

Palm Stand — Planted Area

Class	Ha.	%
Healthy Palms	36.5	74.6
Poor Maintenance	3.06	6.3
Smallish	0.35	0.7
Vacant	9	18.4
Yellowish	0	0
Uncountable	0	0
Total Planted	48.91	100

Road ("L" System)

Access Road	0
Main Road	0
Collection Road	8.232
Total	8.232

Palm Density — Planting Detail

YOP	2011
Net Planted	48.91
Stand	4993
SPH	102

Palm Density Range

- < 73 Stand/Ha
- 74 - 123 Stand/Ha
- 124 - 152 Stand/Ha
- > 152 Stand/Ha

Slope with Contour — Slope Statistics

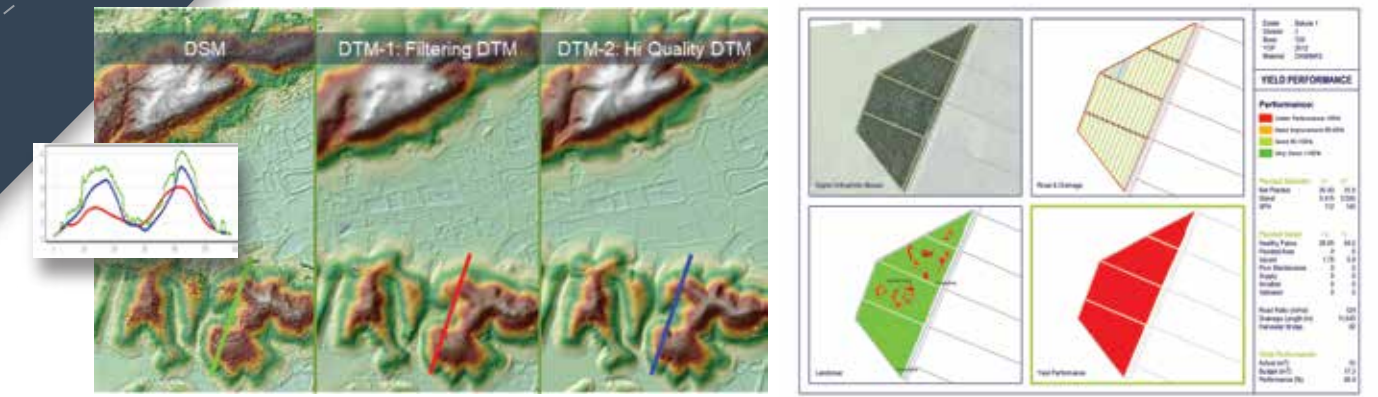| Class	Ha.	%
Flat, 0° - 2°	0.61	1.2
Undulating, 2° - 6°	6.19	11.9
Rolling, 6° - 12°	14.17	27.2
Hilly, 12° - 20°	22.39	43
Steep, 20° - 25°	6.63	12.7
Very Steep, 25° - 90°	2.09	4
Total	52.08	100

DUE DILIGENCE

We allow assessment of land potential and suitability prior to acquisition or finance transaction. Captured aerial data can be analyzed with other relevant data, such as rainfall, slope & topography, and other landbank, as well as Government data in order to comply with regulations related to Moratorium and Peat Restoration.

Overlay AOI with slope, hill shape & contour

ADVANCED ANALYTICS

Specific solution with more advanced analytics is offered to improve productivity, better road & infrastructure management, and visualization.

Advanced DTM

Providing accurate terrain model with UAV technology as an complementary solution to LIDaR.

Yield Performance Analysis

Analyze the yield performance of each block, specifically block with poor performance, which in turn helps to maximize productivity by identifying the loss factor.

INTERACTIVE GIS VISUALIZATION PLATFORM DESIGNED FOR YOUR SUCCESS

InsightAerial is an easy-to-use cloud-based GIS web portal for visualizing the geospatial data – view mapping data, analysis and statistics with a single click. It allows multiple users to access anywhere and anytime with different devices, while sharing data internally and externally. Decision makers can easily access mapping data, derive smarter insights, identify potential risks and discover new opportunities.

* All specifications or features are subject to change without notice.