SYNOPTICSENSE

INSTRUMENTATION + MAPPING + ANALYTICS + DECISION SUPPORT

Reach us at:

+91 98861 45328

www.synopticsense.com

info@synopticsense.com

No 104, 10TH MAIN, 6TH SECTOR, H.S.R LAYOUT, BANGALORE -560102

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who we are ?

We are a team of forest and wildlife ecologists, conservationists, surveyors, aeronautical engineers, information technologists, and data scientists, with a nationwide presence. Our group offers timely and accurate solutions to simply decision making for clients across the spectrum of governmental, non-governmental, and private commercial clients. We provide end-to-end spatial data management solutions, We provide contextual and analytical support for turning spatial data into actionable information, We are well-versed in the survey-data-information-reporting pipeline, and can offer integrative solutions, We have rapidly-deployable boots-on-the-ground teams to conduct surveys to provide short turnaround analytics where needed.

what we Do ?

Mining

Track production from pit to stockpile with AI-powered surveys, measure mine progress with digital terrain models and protect critical infrastructure.

• Stockpile Inventory Management

• Infrastructure Inspections

• Elevation & 3D Models

• Safety & Compliance

Plantation Management

Track plantation for plants Count, plant health monitoring

• Plant counting : Stand count and plant population

• Plant health monitoring : Plant stress analysis, Weed analysis, Pest analysis, Plant disease analysis, Water stress analysis, Flowering estimator

• Eagle eye report

Road Surveys

Our drone data solutions for roads help surveyors, infrastructure developers and project management consultants cut down time and cost overruns

Advantages:

• Conduct faster surveys.

• End misreporting of subcontractors.

• Take control of project deadlines.

• Maximize profitability.

Lakes

Track the historic extent of the lakes over the years and help in restoration of lakes to original extent.

• Scientific restoration of lakes

• Removal of encroachment

• Determine exact extent of lake

what we Do ?

Forestry

• We provide future-proofing of forest management plans in an operational setting:

Logical steps towards a landscape-scale forest management approach include:

• Baseline mapping of current assets (growing stock, species, …),

• Identification of location-based events (fire, illegal felling, …),

• Monitoring of changes (encroachment, forest loss, …),

• Record keeping and reporting for planning purposes.

Agriculture

Track farms Across geographies and over the course of their life time to better grow, manage and insure fields.

Land Surveys

• We help infrastructure developers use aerial maps and 3-D models to classify land use for time sensitive land acquisition and estimate costs and timelines of construction with greater accuracy.

• Contractors can now monitor construction performance with high resolution aerial videos and imagery that identify deviations from the plan and ensure compliance to keep budgets in check.

• Drone data enabled from our AI solutions ensure that roads last longer through visual and thermal based inspection analytics that detect vegetative encroachments and deterioration.

why choose us ?

OUR PROJECTS

FORESTRY

Andhra Pradesh

Identification and Management of Red Sander tree species

Based on discussions with experts in Andhra Pradesh State Forest department, it has been determined that a region with red sanders stands mixed with other species would be ideal for future-proofing purposes in compartment numbers 1131, 1132, of KV BHAVI RANGE FOREST, IN KODUR RANGE OF RAJAMPET DIVISION.
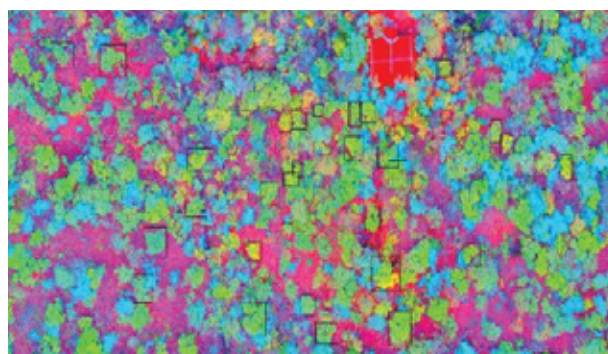
Himachal Pradesh

Early Detection Of Forest Fires

Project on demonstrating effectiveness of using Unmanned Aerial Systems (UASs) for:

• Forest fire monitoring,

• Monitoring of afforestation efforts and forest inventories,

• Implementing aerial surveillance protocols for anti-poaching activities, in different forest regions of Himachal Pradesh State.

Karnataka

Establishing of Anti-poaching Camp using latest Surveillance Technologies integrated with UAS:

Project on demonstrating effectiveness of using Unmanned Aerial Systems (UASs) for:

• Forest Fire Monitoring.

• Monitoring of Afforestation and other assets.

• Surveillance for Anti-Poaching activities.

In Ragihalli Forest Range , Bannerghatta National Park, Karnataka.

AGRICULTURE

Madhya Pradesh

Project on demonstrating effectiveness of the System of Crop Intensification using Unmanned Aerial Systems in different agro-ecological regions of Madhya Pradesh

It is to test and validate effects of modifying conventional agricultural practices to the newly-formulated best management practices (BMPs) under the SCI paradigm with the intent of increasing farm productivity while reducing the ecological footprint associated with conventional farming methods. These efforts will be integrated with modern monitoring techniques enabled by unmanned aerial mapping techniques and imaging sensors to enable near-real time tracking of crop progress, stress, and eventually, crop yields.

PLANTATION MANAGEMENT

• Count of the plants in the given plot

• Determination of health of plant

LAKES

• Scientific restoration of lakes Periodical changes noticed over the years

• Determining geographical extent of lakes.

our clients

our team

Dr. Aditya Singh

(Director Synopticsense)

Assistant Professor, Hyperspectral and Hypertemporal Remote Sensing

• Ph.D. Forestry, University of Wisconsin-Madison, 2014

• M.S. Wildlife Ecology and Conservation, University of Florida, 2008

• Post Graduate Diploma: Geoinformatics applications for environmental assessment and disaster management, 2004

Prof. Dr. Satya Prakash Singh Kushwaha

(Director Synopticsense)

Former Group Director & Dean (Acad), IIRS, ISRO FNASc, FNIE, FISEB (Ind), ADRS, FAvH (Ger)

Dr. S.P.S. Kushwaha, Former Group Director, Dean (Academics), and Head, Forestry & Ecology Department for 14 years is the one who developed techniques to monitor India's forests using satellite imagery as early as 1982.

The technology was transferred to Forest Survey of India. He also developed methods for

Anish Sadanandan

(CEO Synopticsense)

B.com, ICWA

A Business entrepreneur in the Hospitality and IT Industry. A conservationists at heart, member of wild life association of south India(WASI). Pioneered in writing a white paper on conserving riverine ecosystem by protecting the apex specie Mahseer(fish) in the Cauvery river. Provided a proposal on scientific rejuvenation of lakes(Agrahara Lake) in Bangalore to