

LandSENS

CYIENT'S GEOSPATIAL LAND INTELLIGENCE SERVICES

Delivering Spatial Intelligence for National-Scale Land Governance

LAND INTELLIGENCE SERVICES

Cyient's geospatial intelligence services turn automated mapping into continuous spatial insights. Supporting land feature extraction, crop classification, habitat monitoring, change detection, humans-in-the-loop digitisation and national-scale in-field surveys, our LandSENS services empower governments and enterprises with precise and scalable land monitoring.



1 Mn+

Parcels Visually Checked/Year



Up to 98%

Classification accuracy for land cover classification



60%

Reduction in Survey Overhead



100%

QA feedback loop for complex digitising tasks



10,000+

Ground points captured for national surveys annually



100%

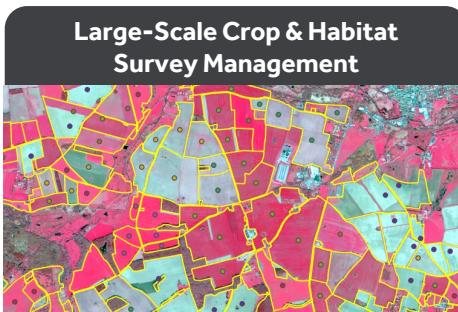
Workflow Integration

SERVICE MODULES



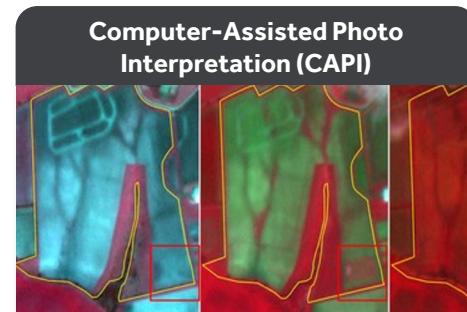
GeoAI Deep Learning Land Cover Mapping & Feature Extraction

- Targeted feature extraction & change detection at scale using multitemporal earth observation including radar and DSM/DTM datasets
- Custom creation of pre-trained deep learning models for rapid, on-demand predictions on novel imagery with validated accuracies
- Collection and training of reference and EO data for bespoke mapping applications



Large-Scale Crop & Habitat Survey Management

- Design, creation, and capture in-field reference data
- Ground control data processing pipelines feed into ML/DL classification
- Terrain Analysis via DEM/DTM/ DSM



Computer-Assisted Photo Interpretation (CAPI)

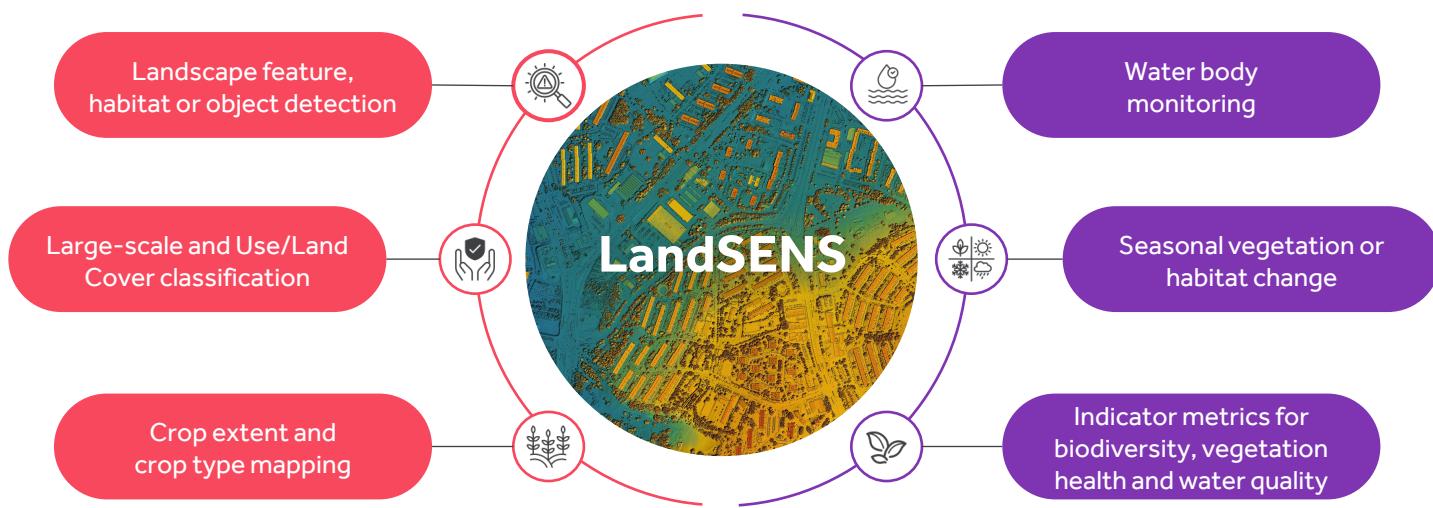
- Rules-Based Land-Use Change Detection Capture
- Scalable Onboarding & QA Framework
- Human-in-Loop + Automation for Accuracy

VALUE WE BRING TO CLIENTS

- **Rapid** insights to support decision-making with repeatable accuracies
- **Reduced** manual effort through AI-led automation and validation
- **Seamlessly** integration with government systems like ELMs and CROME
- **Custom** Deep Learning mapping applications and proof-of-concept feasibility testing



APPLICATION



OUR CREDENTIALS



Domain Expertise

- Over **20 years** operational geospatial experience working with UK government agencies, utilities and mining industries.



Technology-Driven

- GIS software partnerships with integrated data workflows.
- Scalable EO processing with cloud-native delivery.



Quality & Compliance

- **100%** QA feedback loop integration.
- **99%+** error-free digitization and AI annotation.

Cyient (Estd: 1991, NSE: CYIENT) delivers intelligent engineering solutions across products, plants, and networks for over 300 global customers, including 30% of the top 100 global innovators. As a company, Cyient is committed to designing a culturally inclusive, socially responsible, and environmentally sustainable tomorrow together with our stakeholders.

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