



GLOBAL MASTER EDITION

FIELD • PHOTOGRAMMETRY • LiDAR • MULTISPECTRAL • CLOUD • DIGITAL TWIN

GEOSPATIAL INTELLIGENCE. UNIFIED.

One connected field-to-cloud platform for
accurate maps, terrain models, analytics and
analytics and operational digital twins.



Map. Model. Measure.
Decide. Anywhere.

Bring imagery, LiDAR, multispectral and field data into one intelligent workflow.

2D + 3D

FIELD READY

CLOUD SCALE

OPEN EXPORTS



SCAN TO EXPLORE

hellogeo.world

sales@hellogeo.world

One platform. One project record. One clear path.

Capture, process, analyse and share aerial, terrestrial, LiDAR, multispectral and field data.



CAPTURE & IMPORT

- RGB, nadir, oblique and terrestrial imagery
- Multispectral, satellite and geotagged field imagery
- LiDAR LAS / LAZ / XYZ and existing point clouds
- GCPs, checkpoints, RTK / PPK and field boundaries



PROCESS

- Camera calibration, alignment and quality presets
- Dense point cloud, depth fusion and surface models
- GPU-enabled local processing for field workflows
- Elastic cloud / cluster processing and batch jobs



MODEL & ANALYSE

- Orthomosaic, DSM, DTM, contours and profiles
- Textured mesh, point cloud and digital-twin outputs
- Distance, area, volume, cut / fill and comparison
- Vegetation indices, zonation and prescriptions



SHARE & INTEGRATE

- Browser-based 2D and 3D workspace
- Annotations, inspection records and branded reports
- Role-based links for teams and stakeholders
- Open exports, API-ready integration and secure deployment

FIELD | HELLOGEO CLOUD | PRIVATE CLOUD | ON-PREMISE

Local flexibility. Central project history. Open handover.

Decision-ready deliverables in familiar formats.

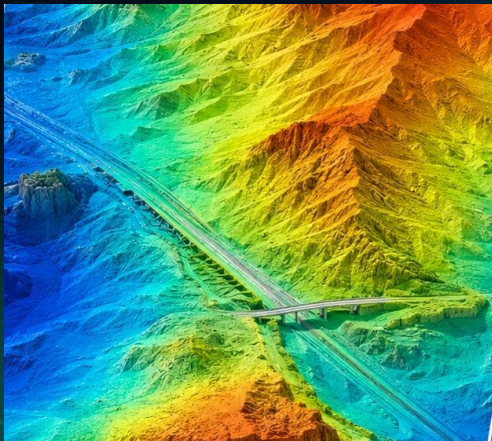
Convert imagery and point clouds into maps, terrain products and 3D assets that downstream teams can use.



2D OUTPUT

ORTHOMOSAIC

A seamless, georeferenced visual base for mapping, inspection, crop scouting and progress review.

[COG GeoTIFF](#)[JPG / JGW](#)[KML](#)[WEB TILES](#)

2.5D OUTPUT

DSM / DTM

Elevation surfaces for contours, drainage context, profiles, cut / fill and terrain and terrain intelligence.

[GeoTIFF](#)[CONTOURS](#)[XYZ](#)[LANDXML](#)

3D OUTPUT

DIGITAL TWIN

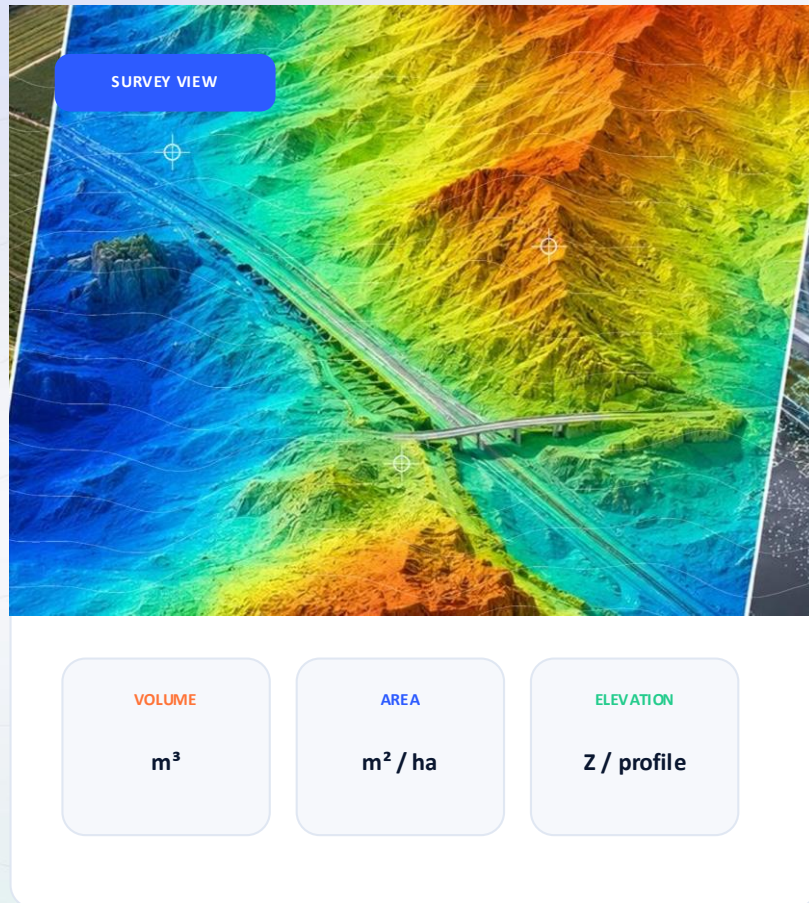
High-detail point clouds and textured models for measurement, context, context, inspection and integration.

[LAS / LAZ](#)[OBJ / FBX](#)[PLY](#)[CESIUM 3D TILES](#)

Open formats reduce hand-off friction across GIS, CAD, web and enterprise workflows.

Measure, verify and document - without leaving the project.

Move beyond processing with measurement, engineering, change and inspection tools in one workspace.



MEASURE + PROFILE

Distance, area, perimeter and elevation profiles.



QUANTIFY

Stockpile and excavation volume; cut / fill fill tracking.



VERIFY

GCP, checkpoint and quality-report workflows.



ENGINEER

Contours, grids, sections and engineering geometry.



TRACK

Timeline comparison and progress documentation.



INSPECT

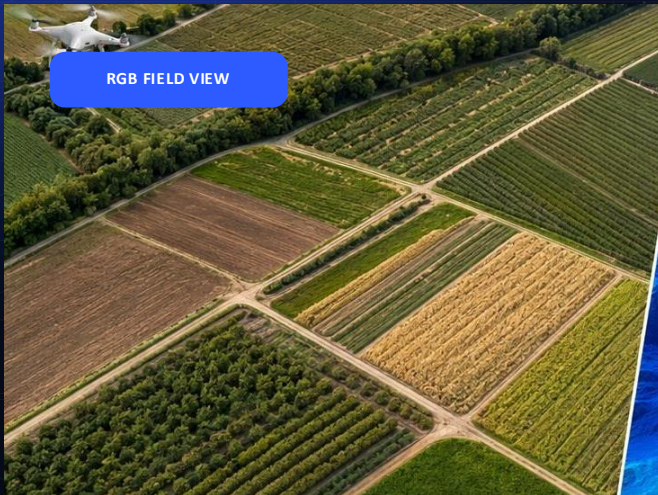
Annotations, issue tagging and branded stakeholder reports.

OPEN OUTPUTS

GeoTIFF • LAS / LAZ • OBJ / FBX / PLY • SHP / KML / GeoJSON • DXF / LandXML • PDF / CSV

Turn field imagery into actionable crop intelligence.

Radiometric correction, vegetation indices, zonation and prescription workflows - connected to the same project record.



RGB FIELD VIEW

Visual context



ILLUSTRATIVE INDEX VIEW

Colour-coded variation for rapid review



Radiometric correction

Standardise multispectral data before analysis.



Vegetation indices

NDVI, NDRE, LCI, TGI, VARI and custom indices.



Crop-health statistics

Review field-level patterns and anomalies.



Editable zonation

Configure classes and refine management zones.



Prescription mapping

Variable-rate and spot-spraying outputs.



AI-assisted counting

Object and damage counting for field workflows.

NDVI • NDRE • LCI • TGI • VARI • CUSTOM INDICES

EXPORTS: GeoTIFF • SHP • KML • GeoJSON • ISOXML

Turn raw LiDAR into usable intelligence.

A field-to-deliverable pipeline for importing, validating, cleaning, classifying, modelling, measuring and sharing LiDAR data.

RAW SCAN → CHECKED DELIVERABLES

LAS / LAZ / XYZ • trajectory • GNSS/IMU • RGB • GCPs • project boundaries



IMPORT

LAS/LAZ/XYZ, trajectory, GNSS/IMU, RGB and GCPs.



VALIDATE

CRS, units, coverage, density, timestamps and strip health.



CLEAN

Outliers, duplicates, isolated noise and unwanted ranges.



CLASSIFY

Ground, vegetation, buildings, water and structures.



MODEL

DSM/DTM, contours, profiles, meshes and derivatives.



MEASURE

Distances, areas, heights, volumes, cut/fill and change.



SHARE

Publish 2D/3D results, reports and open-format exports.

ONE PROJECT. ONE PROCESS HISTORY.

Keep source files, processing choices, classifications, QA checks and final deliverables connected to the same project record - locally, in the cloud or on private infrastructure.

Clean. Classify. Control.

Structure LiDAR point clouds into repeatable, project-ready classes before producing downstream surfaces and measurements.



NOISE & OUTLIERS

Flag isolated returns, high/low noise and unwanted points before derivative products.



GROUND EXTRACTION

Create a dependable bare-earth class for terrain modelling and elevation products.



OBJECT CLASSES

Separate buildings, vegetation, water and project-specific classes for analysis.



DENSITY & TILING

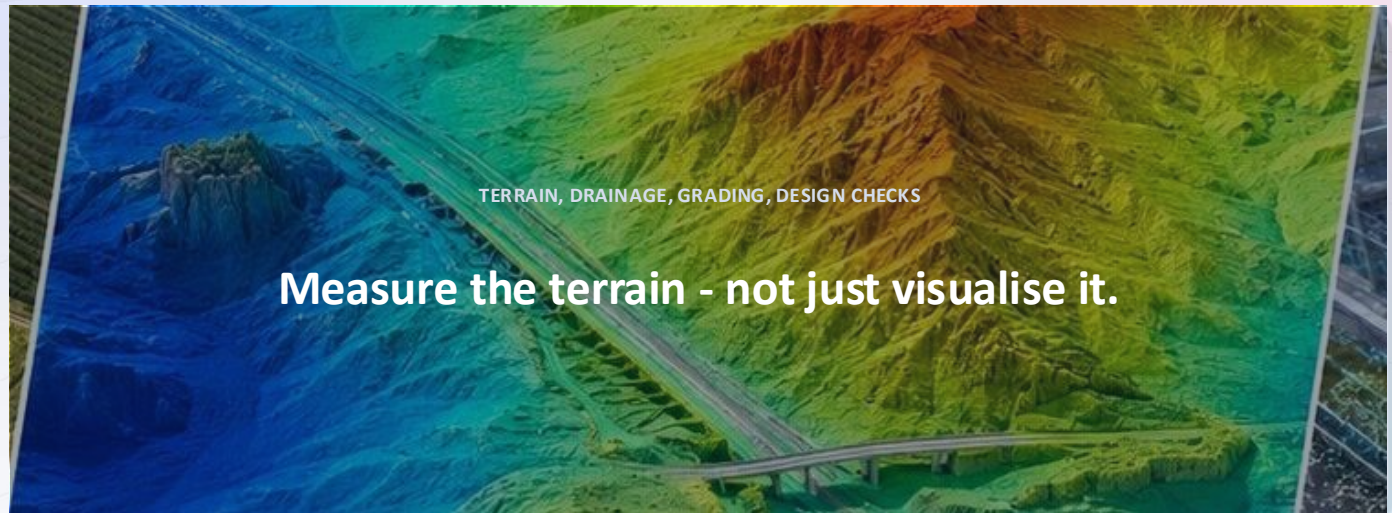
Control point density, tile large datasets and keep processing manageable at scale.

CONFIGURABLE BY PROJECT

Adapt classification logic to survey, corridor, mining, construction, forestry and utility datasets. The goal is not only a cleaner cloud - it is a cloud ready for the next decision.

From points to terrain models.

Use classified point clouds to build the surfaces and measurements that engineering, survey and operations teams actually consume.



DTM

Bare-earth elevation surface for terrain, drainage and grading.

GeoTIFF • XYZ • LandXML



DSM

Surface including structures and vegetation for context and planning.

GeoTIFF • XYZ • contours



CONTOURS

Derived elevation lines for engineering drawings and terrain review.

SHP • DXF • LandXML



PROFILES

Cross-sections and longitudinal profiles for corridors and design checks.

CSV • DXF • PDF



AREA

m² / ha



VOLUME

m³



ELEVATION

Z / profile



CUT / FILL

quantity

DERIVATIVE PRODUCTS FROM THE SAME SOURCE CLOUD

One classified dataset can drive terrain, contours, sections, volumes and comparison outputs - keeping every derivative traceable to the same source.

Know what you are delivering.

Build QA/QC into the project before final delivery - not after a beautiful 3D view has already been accepted.



COORDINATE SYSTEM

CRS, horizontal / vertical datum, units and geoid assumptions.



COVERAGE

Flight strips, gaps, overlap, edge coverage and data voids.



POINT QUALITY

Density, spacing, duplicate points and noise flags.



CLASSIFICATION

Ground and other classes checked for consistency and completeness.



ACCURACY

Independent checkpoints and error statistics against project requirements.



DELIVERY

Tile naming, metadata, file integrity and export validation.



QA REPORT READY FOR REVIEW

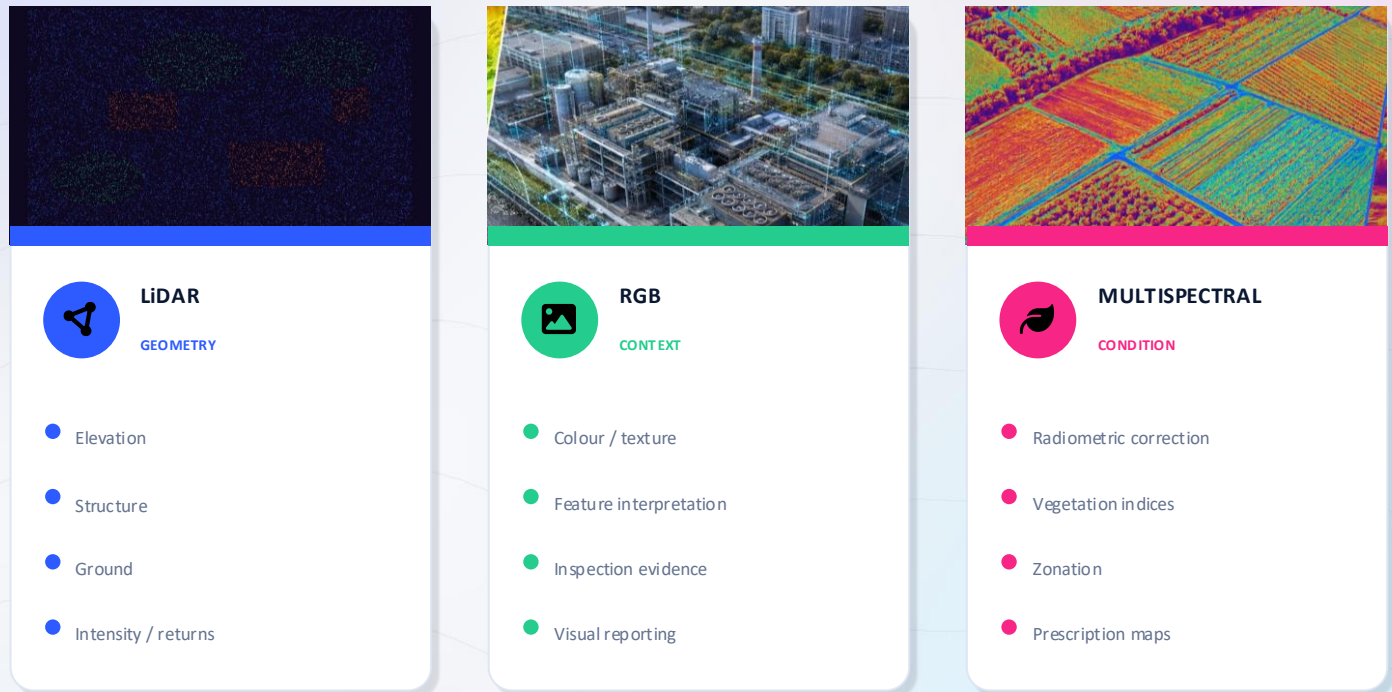
Summarise project checks, processing settings, point statistics, checkpoints, exceptions and final deliverables in a shareable record.



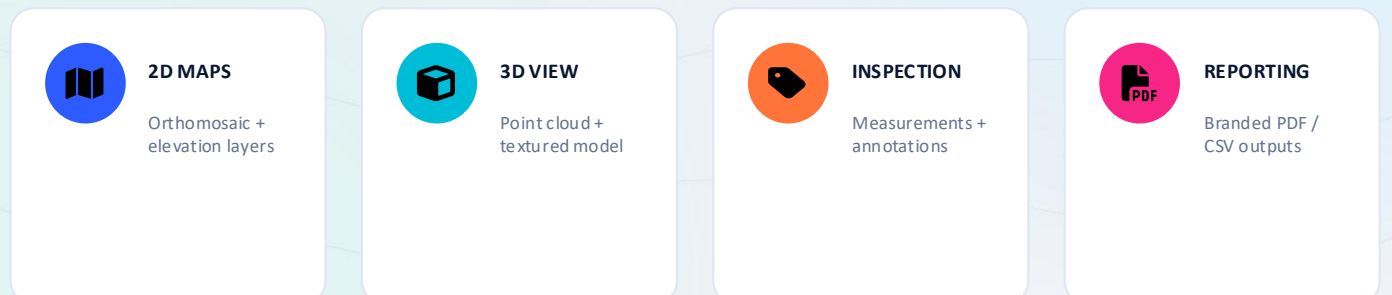
Accuracy targets should always be defined by the contract, survey specification or mission design.

Fuse geometry, context and condition.

Bring LiDAR, RGB and multispectral datasets into the same project workflow for richer 2D, 3D, inspection and reporting outputs.



COMBINED PROJECT OUTPUTS

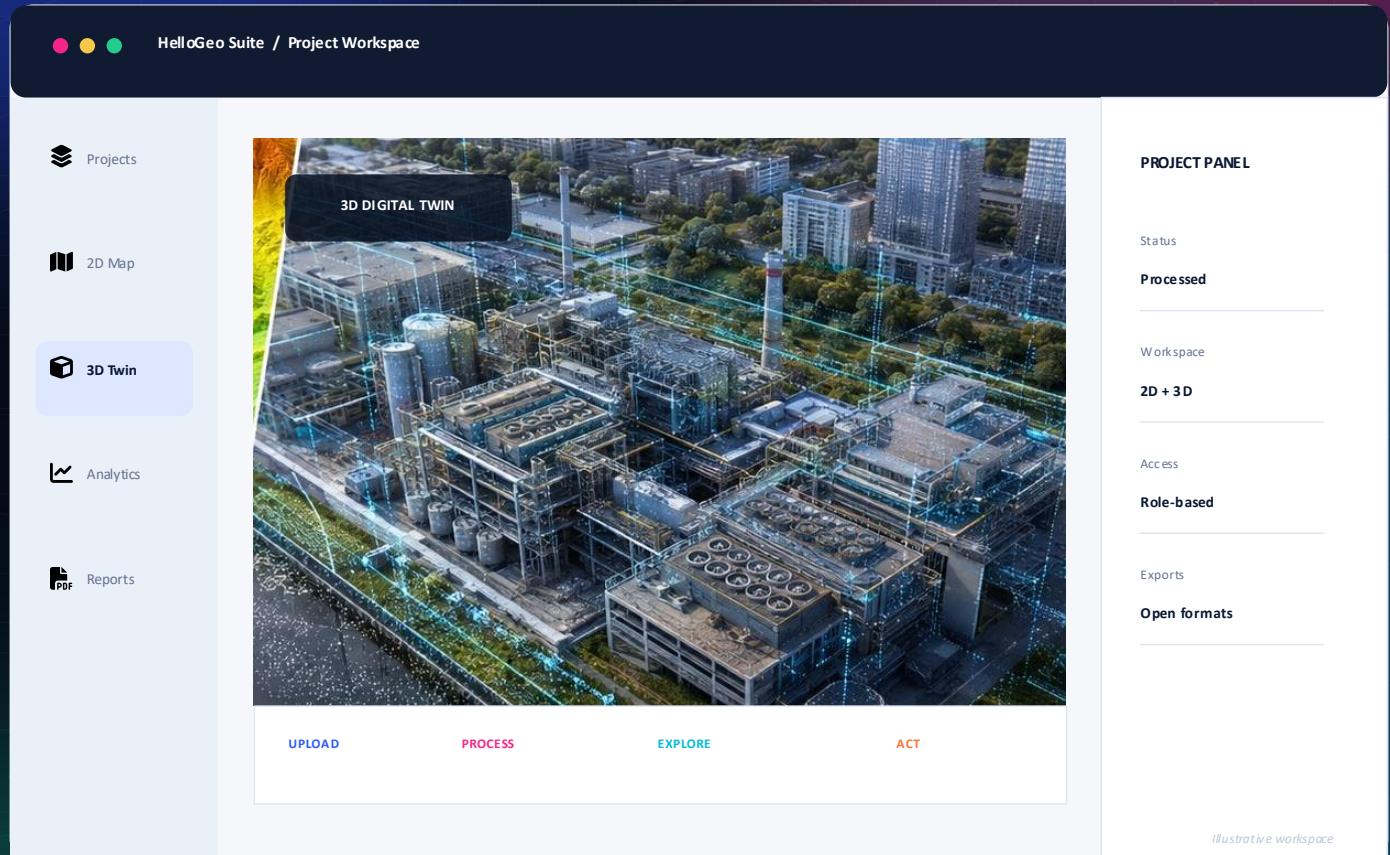


A SINGLE WORKSPACE FOR MIXED SENSOR PROJECTS

Import datasets → Align / georeference → Generate surfaces → Inspect in 2D + 3D → Export decision-ready layers

A secure spatial record that scales with the mission.

Centralise projects, accelerate processing, collaborate in 2D and 3D, and connect results to enterprise systems.



CLOUD PROCESSING

Elastic compute, queues, batch jobs and central project history.



COLLABORATION

Secure links, role-based access, annotations and inspections.



ENTERPRISE CONTROL

Private cloud or on-premise options, policies and API integration.

UPLOAD

PROCESS

EXPLORE

ACT

HELLOGEO CLOUD • PRIVATE CLOUD • ON-PREMISE

From scan to decision -without the software maze.

HelloGeo Suite acts as the operational layer between field capture and the people who need reliable measurements, maps, models and reports.



SURVEY & CONSTRUCTION

Checked terrain, progress, quantities, cut / fill and site conditions.



AGRICULTURE

Crop-health review, zonation and prescription mapping.



MINING & QUARRIES

Stockpiles, benches, excavation and volumetric change.



UTILITIES & CORRIDORS

Profiles, inspection layers and issue records from linear LiDAR.



SMART CITIES & INDUSTRY

Browser-based 2D/3D project views and operational context.



DEFENCE & CRITICAL SITES

Secure deployment options for critical-site spatial workflows.



FORESTRY & LAND

Ground and vegetation separation, structure and terrain context.



ENTERPRISE GIS

Open formats, branded reports and browser-based collaboration.

Map. Model. Measure. Share. Decide.

One connected workflow for LiDAR, imagery, multispectral and field data.

