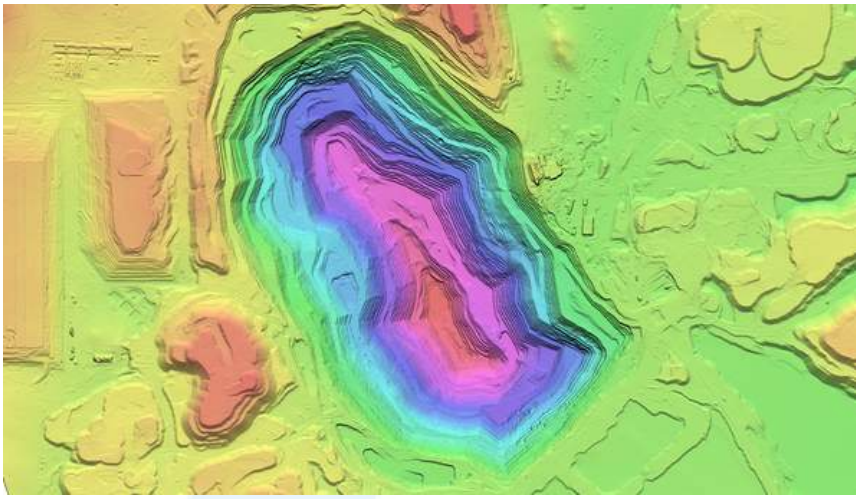
High-resolution terrain intelligence

Strategy, innovation, and results

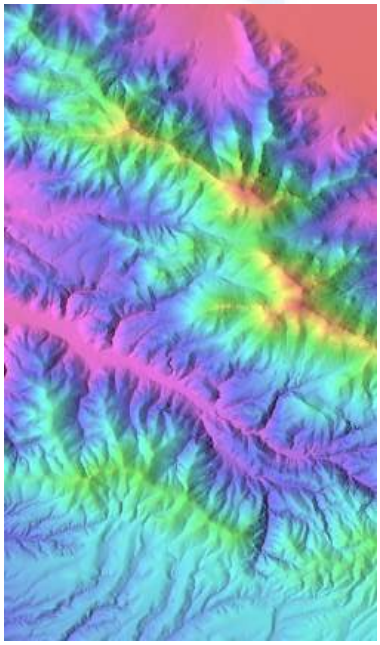


Bare-Earth DEM / DTM + Digital Surface Models

30 cm (~1 ft) and 50 cm (~1.6 ft) grid options

Decision-ready elevation data for demanding sites

Suitable stereo satellite imagery is converted into project-specific terrain and surface models for large, remote, restricted-access, and schedule-sensitive areas.



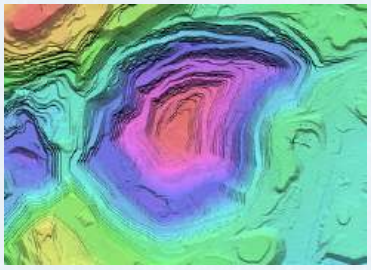
DELIVERABLES

+ GeoTIFF elevation grids
+ Metadata and technical report
+ Project coordinate system

STEREO SOURCING

Archive imagery, new acquisition, or a combined strategy using suitable Vantor optical satellite platforms.

SATELLITE-DERIVED ELEVATION MODELS



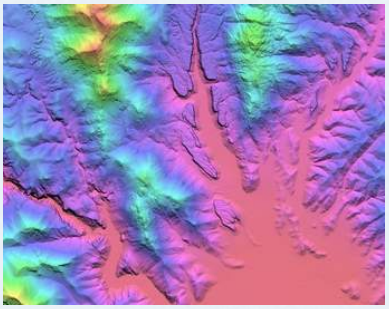
PRODUCTS

+ **Bare-Earth DEM / DTM**
Terrain representation with vegetation, buildings, and other above-ground objects classified and removed or modeled.

+ **Digital Surface Model**
Visible surface including terrain, vegetation, structures, and infrastructure

PROJECT FIT

+ Mining and quarries
+ Oil & gas and pipelines
+ Road, rail, energy and utilities
+ Drainage and environmental studies
+ Urban and industrial planning



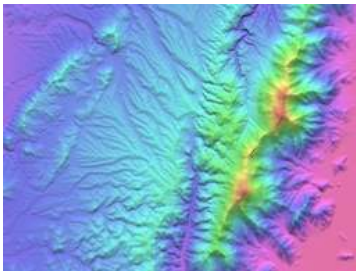
Configured for the project AOI

Each proposal is based on intended use, terrain, imagery availability, acquisition geometry, reference system, and accuracy requirements.

FROM AOI TO DELIVERY

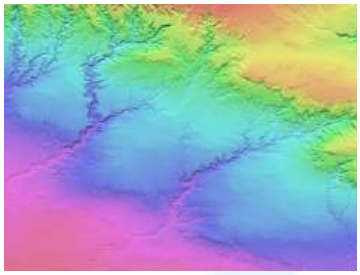
01. FEASIBILITY
02. STEREO
03. CLASSIFY
04. VALIDATE
05. DELIVER

Terrain Products



Bare-Earth DEM / DTM

Ground-focused elevation grid for grading concepts, drainage, corridors, access planning, terrain analysis, and engineering pre-feasibility.



Digital Surface Model (DSM)

Top-of-surface elevation grid retaining vegetation, buildings, infrastructure, and other visible features

QUALITY CONTROL

Validation is designed around project requirements and available independent control. Reported metrics are tied to the agreed methodology and reference system.

REFERENCE ACCURACY EXAMPLE

A previously completed 50 cm DTM, evaluated against 30 independent control points, achieved:

30	0.233 m	0.307 m	0.60 m
CONTROL POINTS	MAE	RMSEz	LE95

Accuracy is project-specific and depends on terrain, stereo geometry, source imagery, reference system, and the availability and quality of independent control. These values are provided as a documented reference example and do not guarantee future project performance.

LARGE-AREA CAPABILITY

Satellite-derived DEMs can be produced for large project areas, with demonstrated experience covering individual projects of more than 3,000 km².

> 3,000 km² demonstrated project scale

Technical profile

+ Grid spacing

30 cm (~1 ft)

50 cm (~1.6 ft)

+ Primary format

GeoTIFF

+ Reference system

Project-defined horizontal and vertical reference

+ Coverage

Project AOI; scalable from site to regional extents

+ Accuracy

Specified and reported per project methodology and control availability

HOW TO ENGAGE

+ Share the AOI

KML, KMZ, SHP, GeoJSON

+ Define the use case

DTM or DSM, grid spacing, reference system, accuracy, schedule, and outputs.

Imagery, stereo geometry, and delivery options are evaluated.

Satellite-derived elevation products support mapping and planning; they do not replace licensed boundary or land-survey services where legally required.