



Orthophoto



Digital terrain model



Point cloud



Volume calculation



Profile lines



Contour lines



Automatic classification



Multispectral images



CAD functionalities



LiDAR



Reporting



GCP



3Dsurvey

Mapping and Aerial Image Processing Software
for **Land Surveying Specialists**



Surveying like never before

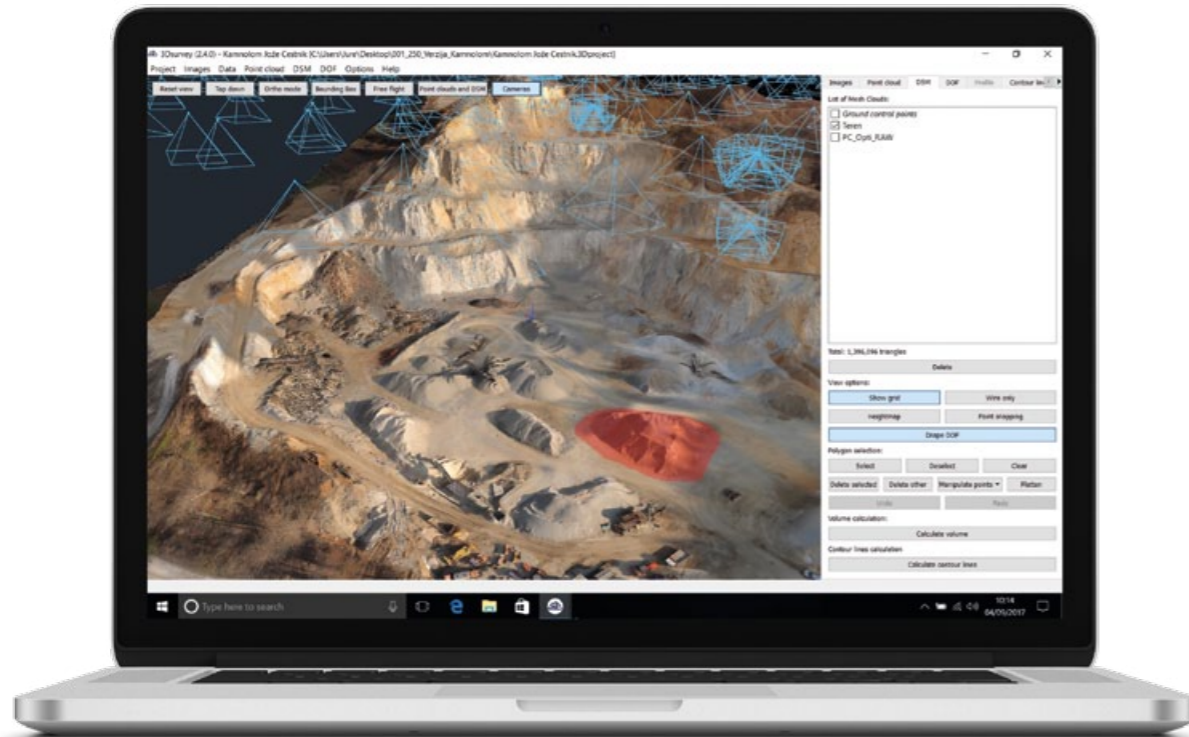


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Developed by **surveyors for surveyors**. Introducing a new land surveying experience! Let technology take over the hard work so you can dedicate your time to what matters. **Results.**

Tailored to specific land surveyor's needs and developed based on 300+ real projects, **3Dsurvey** makes land surveying projects up to 10 times faster, extremely accurate and easy to manage.

Capture. Process. Analyze.
Survey like never before.



Any drone, any camera

3Dsurvey is designed to work with any fixed-wing or multi-rotor UAV paired with any camera or sensor. **Perfect for any job.**



Survey-grade accuracy

To any surveying professional, there's nothing more important than accuracy. Take full control over your workflow and achieve cm-grade accuracy leading to **high-performance results.**



Surveyors for surveyors

Based on years of experience and more than 300 hands-on surveying projects. Hard-to-reach terrain? Poor time-efficiency? Look no further. **3Dsurvey ticks all the right boxes.**



Advanced geospatial orientation, simplified.

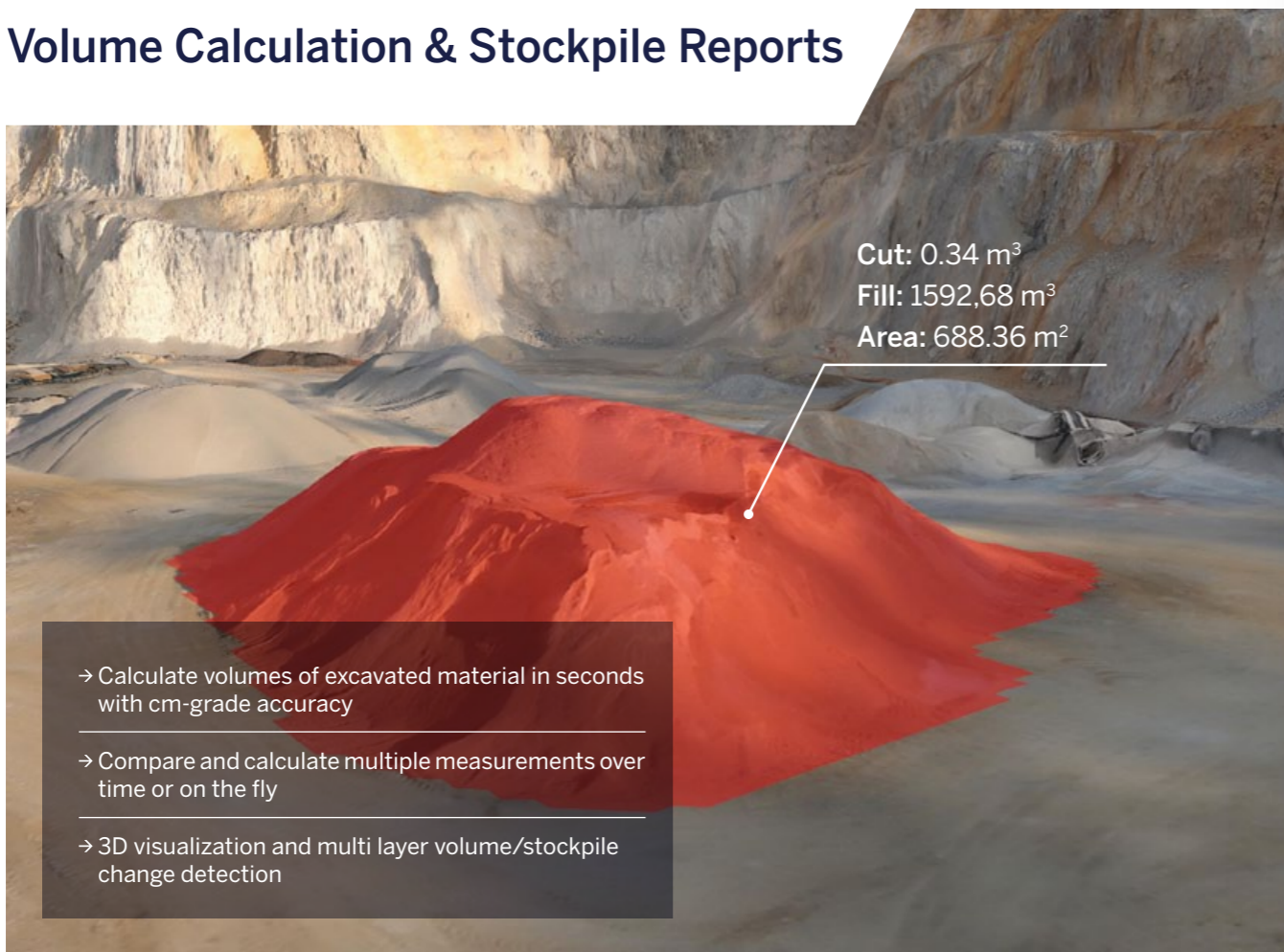
Automated ground control points recognition. Speed up and simplify your work. Compatible with rTK and Exif GPS for instant telemetry data import. **Save time, forget manual labour.**



One time purchase, lifetime value.

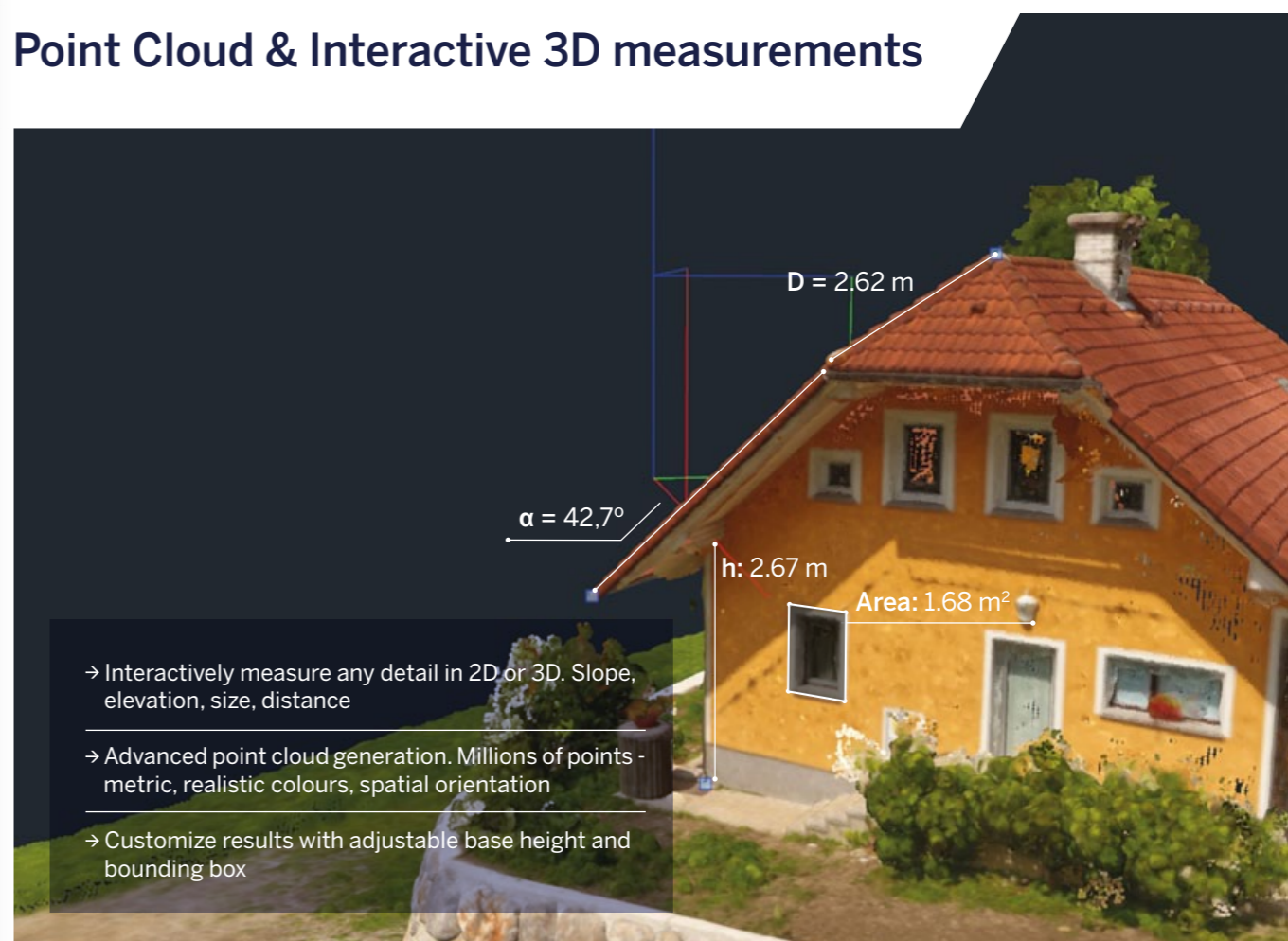
Robust, stand-alone software package for professional land surveying. Work online or offline, office or outdoors. **Buy once, keep for life.**

Volume Calculation & Stockpile Reports



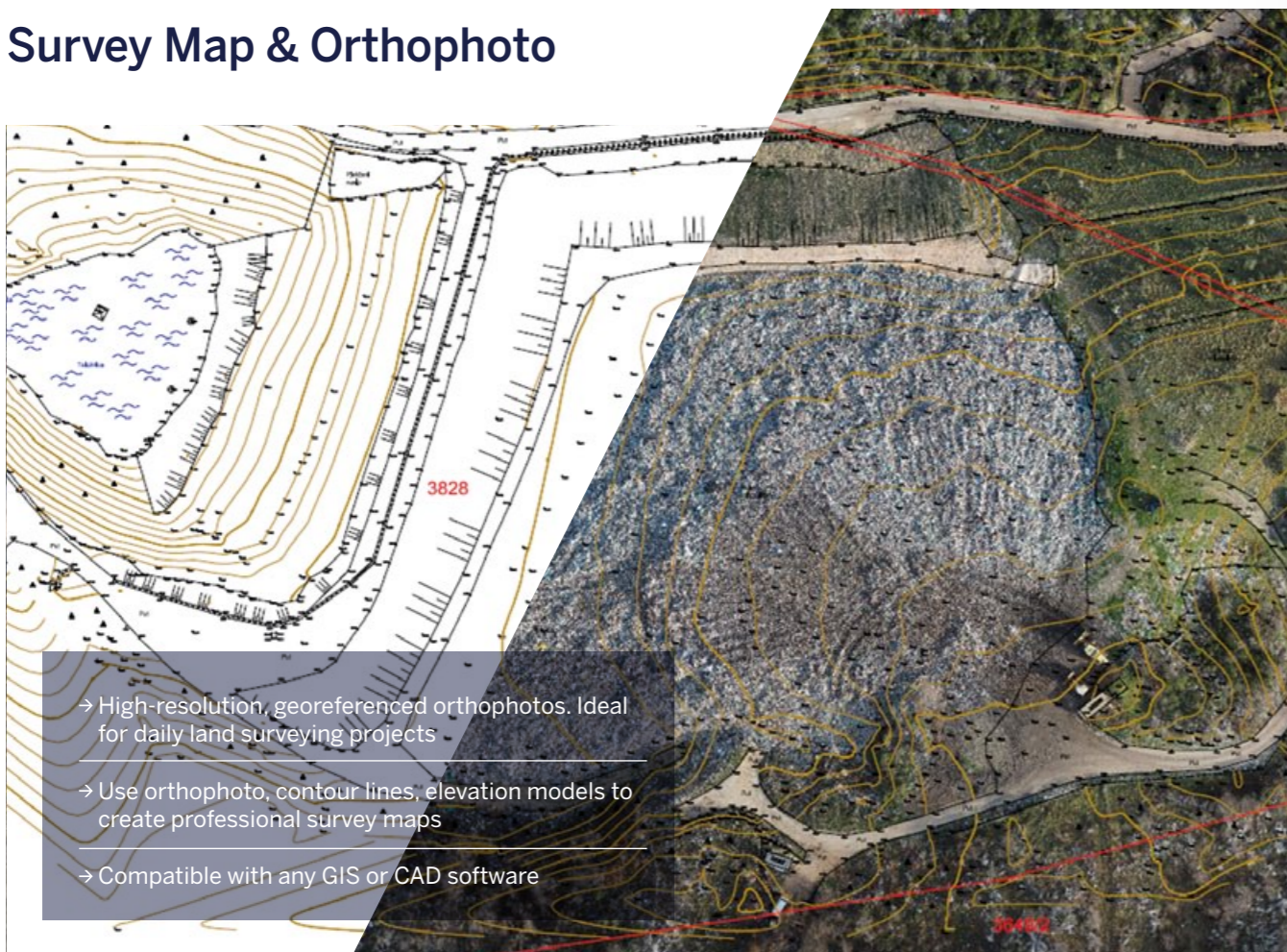
- Calculate volumes of excavated material in seconds with cm-grade accuracy
- Compare and calculate multiple measurements over time or on the fly
- 3D visualization and multi layer volume/stockpile change detection

Point Cloud & Interactive 3D measurements



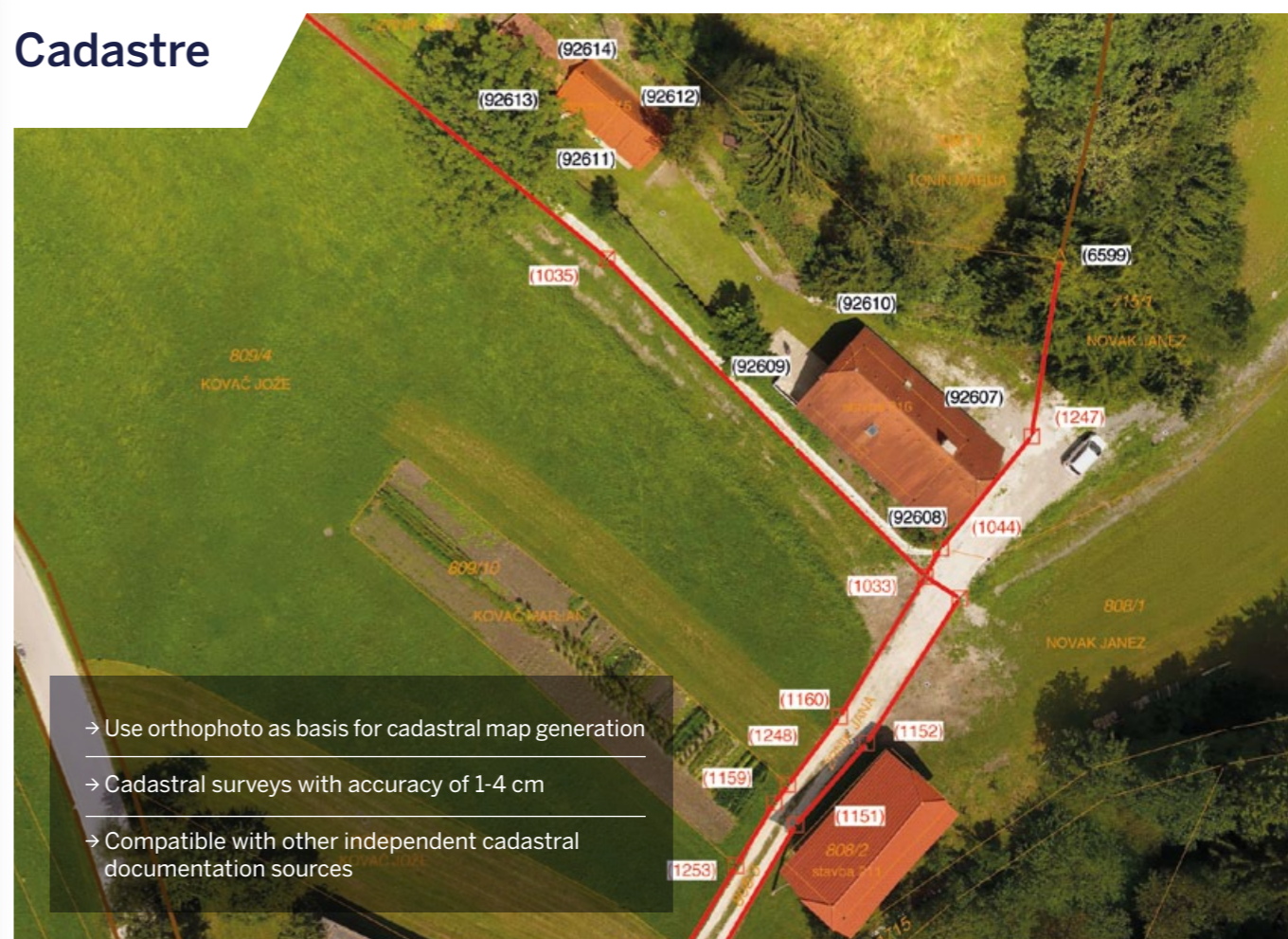
- Interactively measure any detail in 2D or 3D. Slope, elevation, size, distance
- Advanced point cloud generation. Millions of points - metric, realistic colours, spatial orientation
- Customize results with adjustable base height and bounding box

Survey Map & Orthophoto



- High-resolution, georeferenced orthophotos. Ideal for daily land surveying projects
- Use orthophoto, contour lines, elevation models to create professional survey maps
- Compatible with any GIS or CAD software

Cadastral



- Use orthophoto as basis for cadastral map generation
- Cadastral surveys with accuracy of 1-4 cm
- Compatible with other independent cadastral documentation sources

CAD Functionalities

Draw and export CAD lines directly in 3Dsurvey using an integrated CAD drawing tool.

Export to any format

3Dsurvey offers export and import options for a variety of data formats, such as: tiff, jpeg, png, pdf, ply, las, txt, xyz, koo, dxf, etc.

Point Cloud

3Dsurvey automatically recognizes ground control points in your imagery and generates a georeferenced point cloud with realistic colours and shadows. Set the level of reconstruction yourself to control the processing time.

Automatic classifications

Use an Automatic classification function to automatically classify points that are a part of terrain in order to calculate a digital terrain model.

Profile lines – cross-sections

Create vertical cross-sections from point cloud data. Draw a definition line and calculate a single vertical cross-section or calculate multiple transverse profiles with user-defined intervals.

Point Cloud manipulation

Use point cloud manipulation tools to increase or decrease the height of a selected part of a point cloud. Alternatively you can set the height to a fixed elevation.

Measuring tools

Use measuring tools to measure distances in both 2D and 3D, or to measure slope or height difference between two points in a point cloud.

Point picking

Generate new points at user-defined positions and save them in a text document or any point cloud format. Use them in CAD software to create a new survey map.

Reporting

Generate advanced reports for immediate overview and analysis. Use quick templates or generate your own for in-depth professional surveying projects. Save in .docx or .pdf.

Bounding Box

Turn Bounding box on/off in order to display particular parts of data or point cloud cross-sections. Bounding box can be scaled, moved or rotated along any axis.

Free flight

Use Free flight option to fly over any model. Move with w/a/s/d keys, change speed with +/- or change altitude with r/f. Capture realistic videos of your model and use them for presentation or promotional purposes.

Point cloud and DSM

Point cloud and DSM option enables a simultaneous display of point cloud and DSM data to give you even more control when selecting points near terrain break lines, roofs, cultural features and other objects.

Digital Surface Model

A watertight surface model that contains elevations of terrain in addition to vegetation and cultural features such as buildings and roads. Provides an accurate and detailed surface representation in various grid sizes.

Height map

Use a height map to highlight elevation differences in a point cloud or a digital surface model. Add shading to further emphasize a 3D nature of a digital surface model.

View styles

Use different view styles with any digital surface model to display boundaries or wireframes. Play with it by applying realistic colours or using a height map tool.

Drape DOF

Drape a digital orthophoto on a digital surface model and get a realistic representation in 3D.

Flatten

Use this intelligent function to flatten trucks, cars, trees or any other similar features and turn a digital surface model into a digital terrain model.

Volume calculation

Simple and elegant calculation of various different volumes, such as excavated or piled-up material. Select an area of interest on your digital surface model and calculate volumes in a matter of seconds. Base your calculation on a single surface or compare the difference between two or more consecutive measurements.

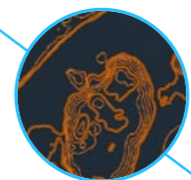
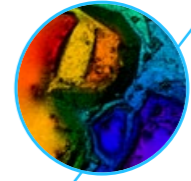
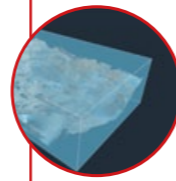
Select/Deselect

Use Select tool to draw a polygon or to select a part of a point cloud or a DSM. Combine it with Deselect tool to remove any part of point clouds or DSMs.

Contour lines

Select any contour interval to calculate contour lines. Export them to DXF format for further use with CAD or PDF format for printing and topographic map production.

CAD



LiDAR

Accurate (cm-grade) and classified LiDAR data processing. Import LiDAR data from 3rd party sources or work with an already classified LiDAR files in a layer-style workflow.

Orthophoto

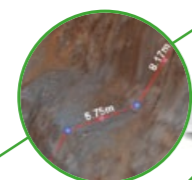
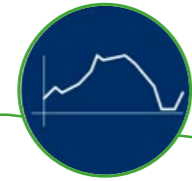
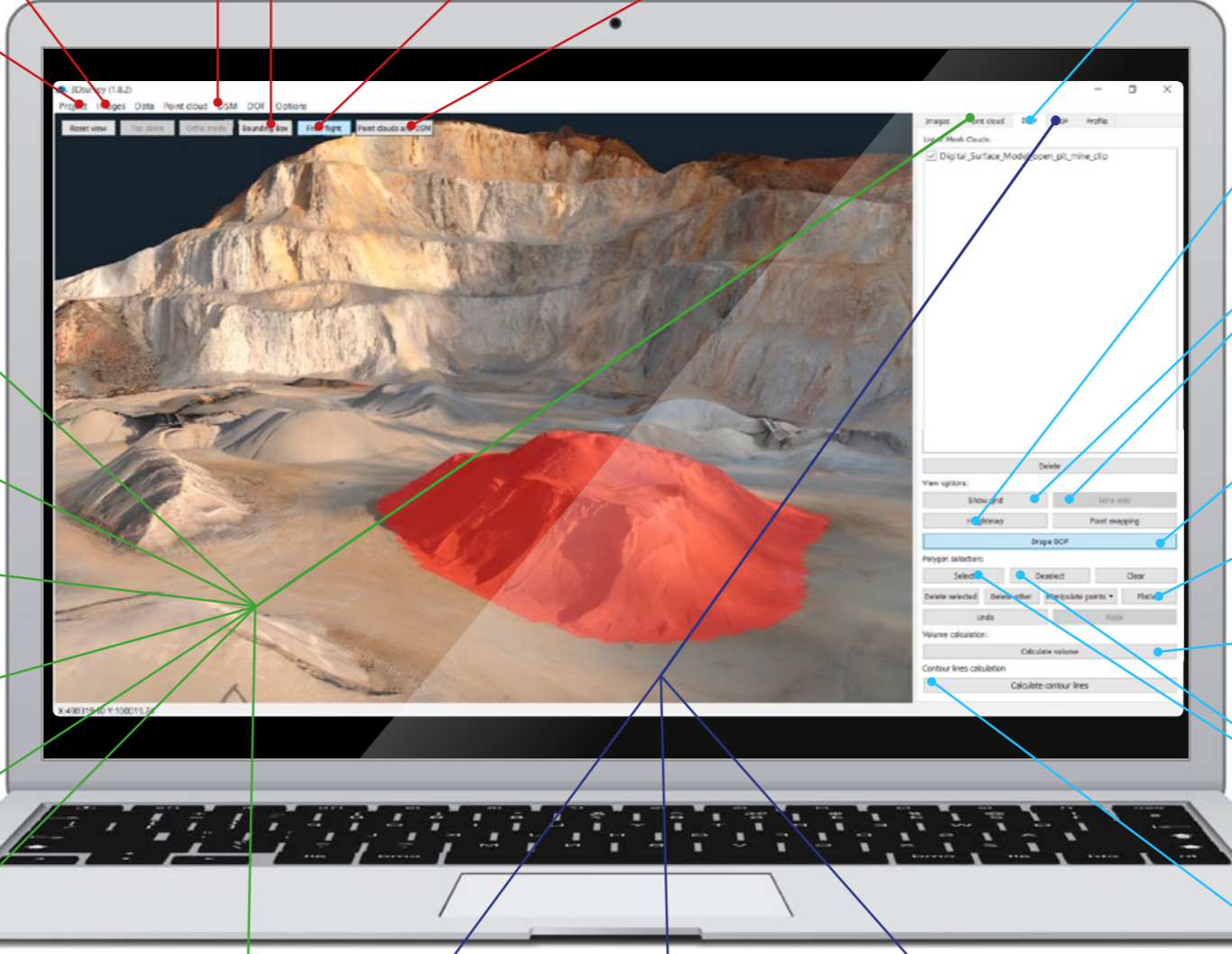
3Dsurvey's high quality orthophoto can be used to extract information on positions and dimensions of roads, facilities, road markings, utility lines and other objects.

Merge orthophoto

Use a Merge wizard to merge two orthophotos into one. This tool lets you decide which parts to take from the originals and therefore gives you complete control of the generated results.

Cut DOF

Use a Cut DOF wizard to trim the sides of a digital orthophoto and remove unwanted edges or use coordinate selection mode to cut your orthophotos with pinpoint accuracy.



Surveying & Construction



- Document and measure sites with aerial imagery
- Continuous analysis and monitoring with direct access to quality data
- View and control the progress of your site over the entire project life cycle

Inspection



- Identify structural defects in 3D in considerably less time
- Build a georeferenced database for detailed post-flight inspection and change detection
- Enjoy high-resolution reconstructions of any investigated site or a building for instant measurements and reporting

Environmental Monitoring

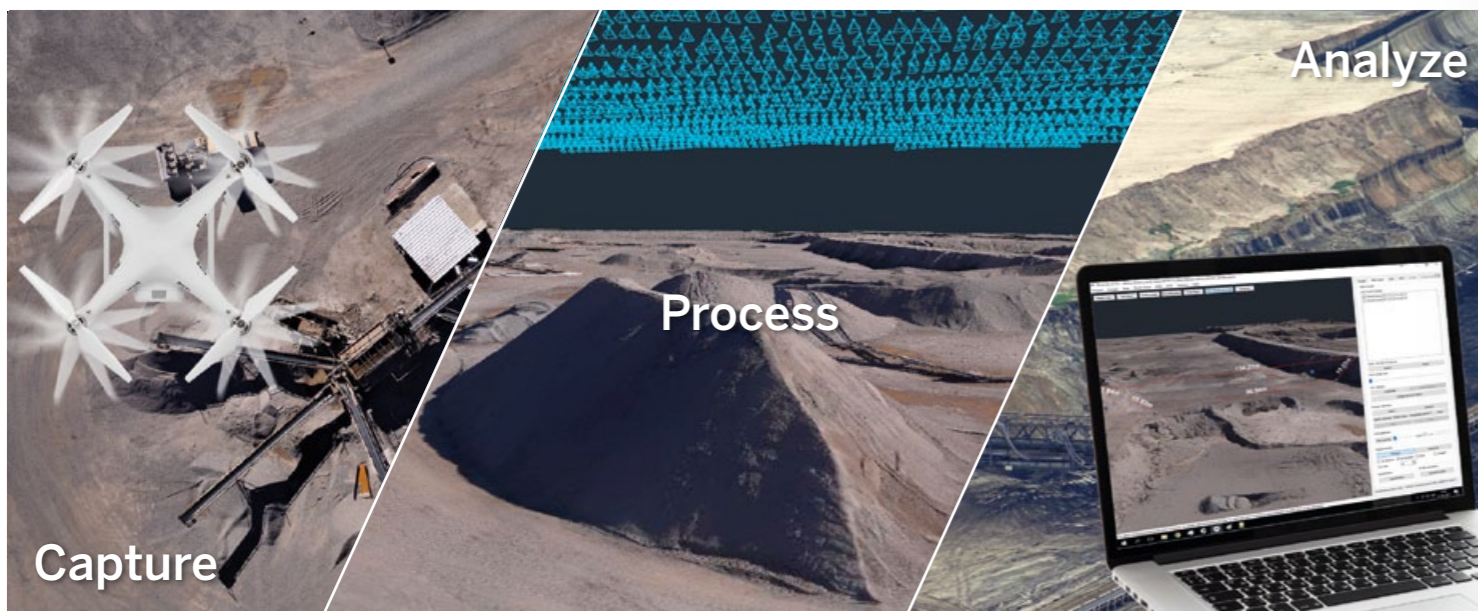


- Use 3Dsurvey digital modelling for flood risk assessment and landslide prevention
- Create spatially accurate data for better control and monitoring of the environment
- View and detect changes in resources and natural habitats

Agriculture

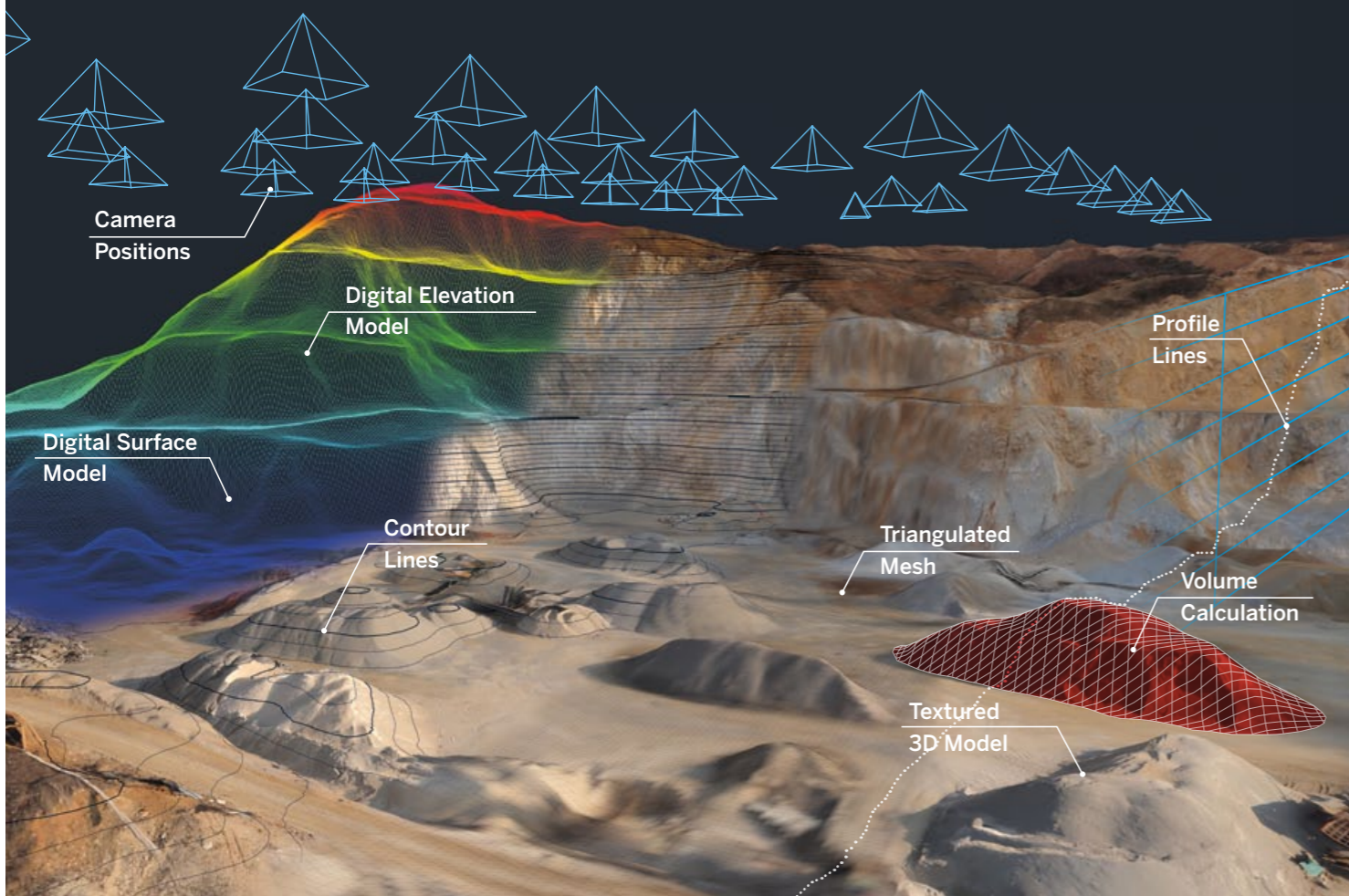


- Fly your drone, capture imagery and process data for immediate insights
- Generate high-quality, high-accuracy NDVI and other indices to identify crop stress and growth inconsistencies
- Detect problems to help specialists take action and solve problems



New Surveying Tool

The complete software solution for drone mapping and photogrammetry.



“ I am privately using 3Dsurvey mainly for quantity calculations (stockpiles). Compared to other software packages the handling of 3Dsurvey is very comfortable and easy, especially the identifying of GCPs in local coordinate system! The price is unbeatable! ”

Michael Zeitlmann, Chief Surveyor Julius-Berger Nigeria PLC

“ We’ve been using 3Dsurvey for several years now, both for aerial and terrestrial surveying jobs. It is a powerful product, characterized by its ease of use, efficient processing algorithms and great customer support. ”

Vlado Cetl, Faculty of Geodesy, University of Zagreb



Surveying experience

Take advantage of our 20-year land surveying experience.



Personal training

Bring our dedication to your door step.



Upgrades

Don't ever worry about staying out of the loop.



Support

Your problem is our mission. We're here to help.

One time purchase. Lifetime value.

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