@3Dsurvey

3Dsurvey

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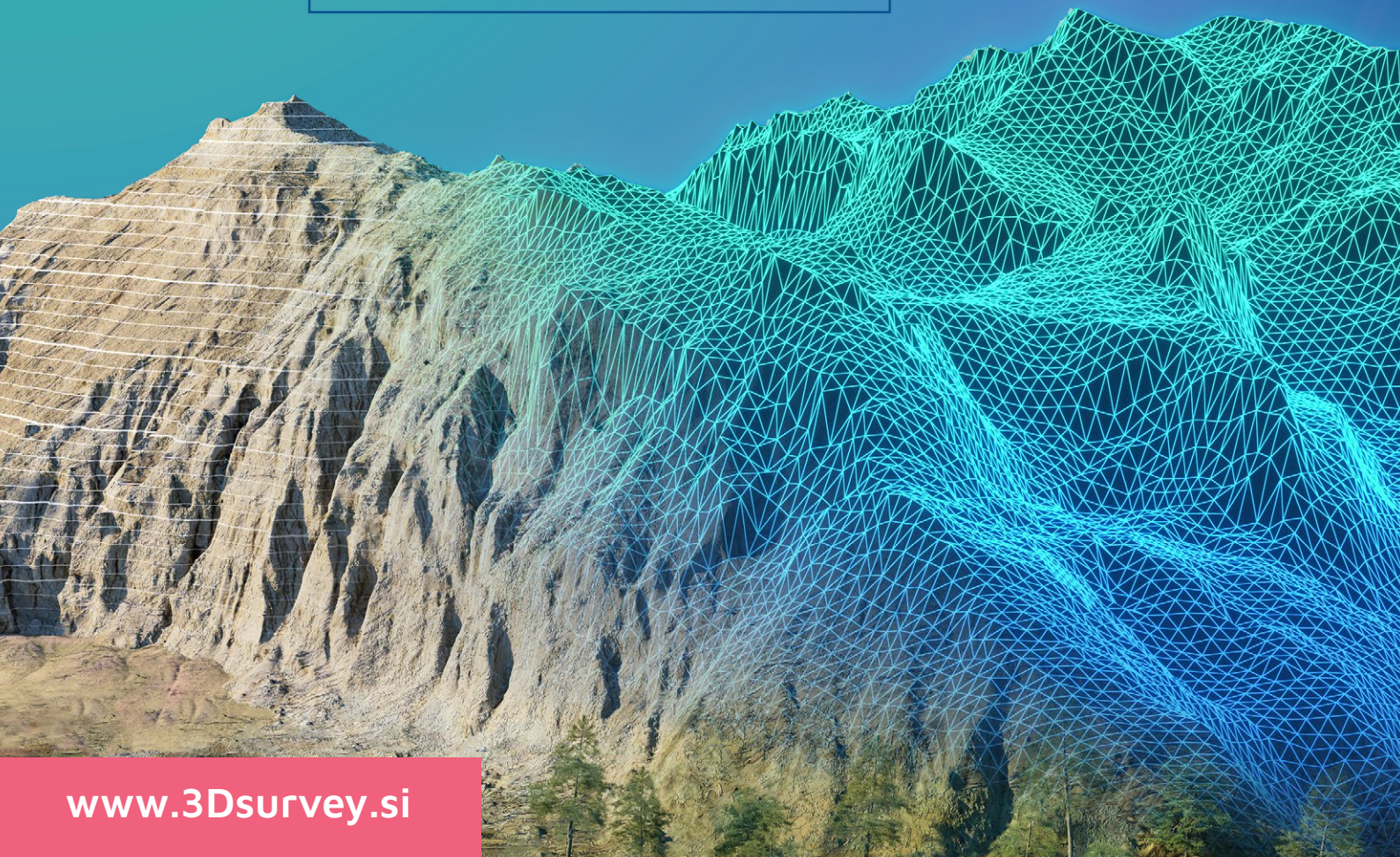


By surveyors, for surveyors

3Dsurvey

From aerial, terrestrial, LiDAR and RTK video data to orthophotos, point clouds, meshes, contours, volumes, CAD deliverables and reports, all in one workflow.

Much more than just photogrammetry software



www.3Dsurvey.si

Core Software

From Capture to Collaboration. One Seamless Workflow, One Platform

3Dsurvey is an all-in-one photogrammetry software. Import images, generate point clouds, surface meshes, DTMs, and high-resolution orthophotos. 3Dsurvey enables precise extraction of CAD data, calculation of contours, volumes and profile lines, and seamless collaboration by sharing results through an integrated cloud platform.

CAPTURE: Start with all your site data in one place

Bring in drone and ground imagery, LiDAR or SLAM scans, ground control points, and existing datasets - all seamlessly connected inside 3Dsurvey.
3Dsurvey software supports any drone, any camera.



PROCESS: Turn raw data into accurate, georeferenced results

With 3Dsurvey's powerful photogrammetry engine, you align images, generate point clouds and meshes, build DSM/DTM surfaces, and create accurate orthophotos.
Automatic classification and clean-up tools prepare everything for fast extraction.





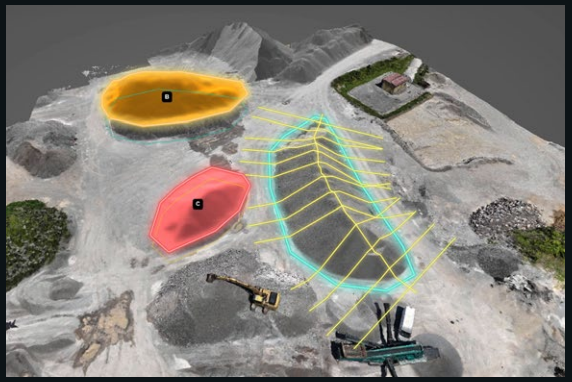
EXTRACT: Move from data to deliverables faster in a single software

Create topographic plans, vectorize directly on point clouds or meshes, measure distances, areas, slopes, calculate volumes from single or multiple surfaces, create contours and profile lines. Generate project and measurement reports automatically.



SHARE: Deliver results your way

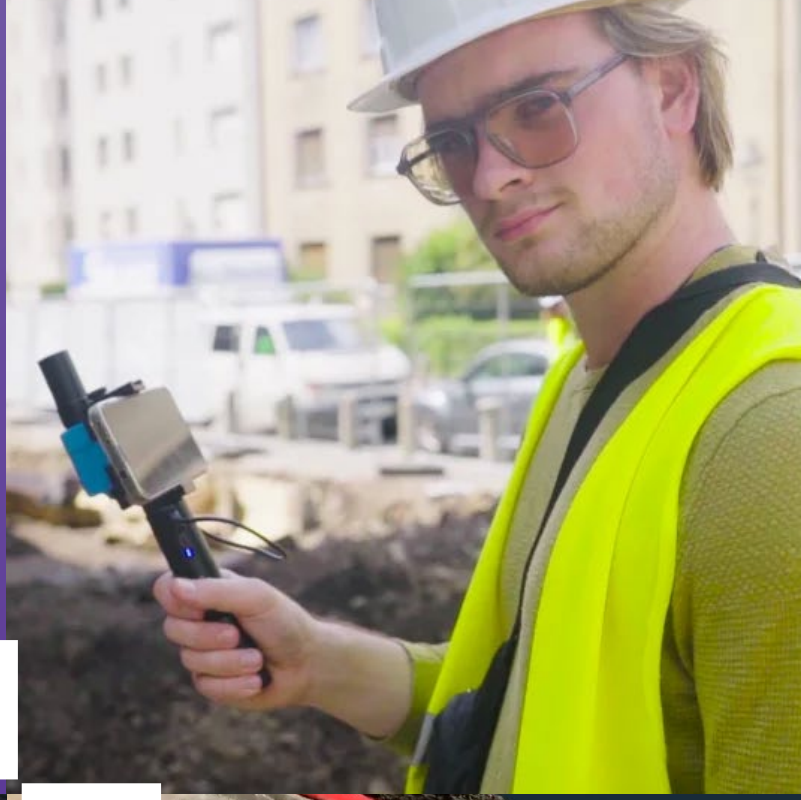
Export in all standard formats including: DXF, LAS, e57, OBJ, TIFF, PDF and more.
Want interactive online viewing?
The **Cloud Viewer** lets stakeholders explore projects and take basic measurements right in their browser, no software installation needed.

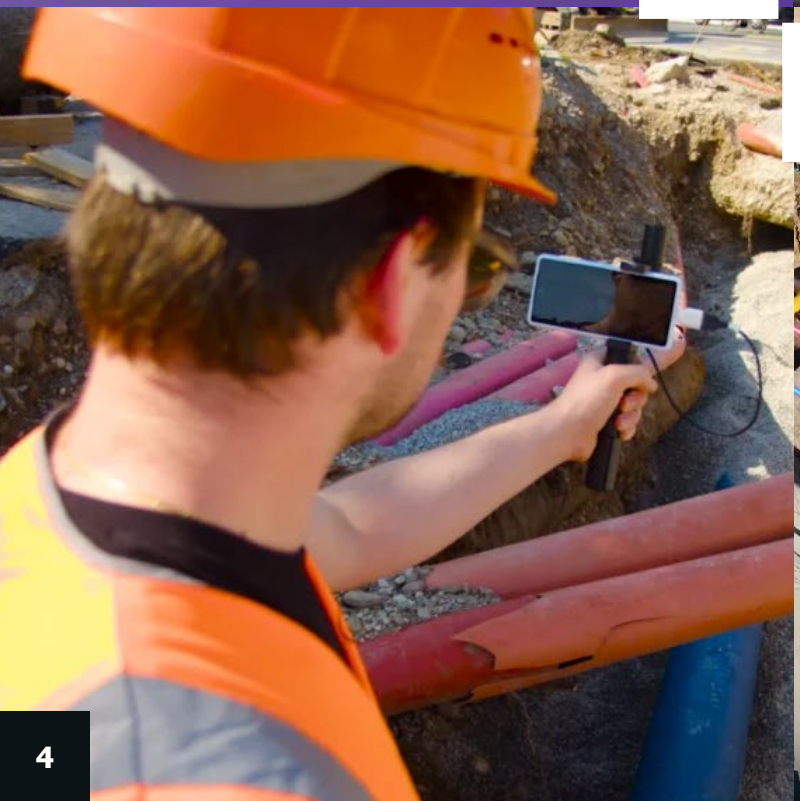


Optional Add-on module

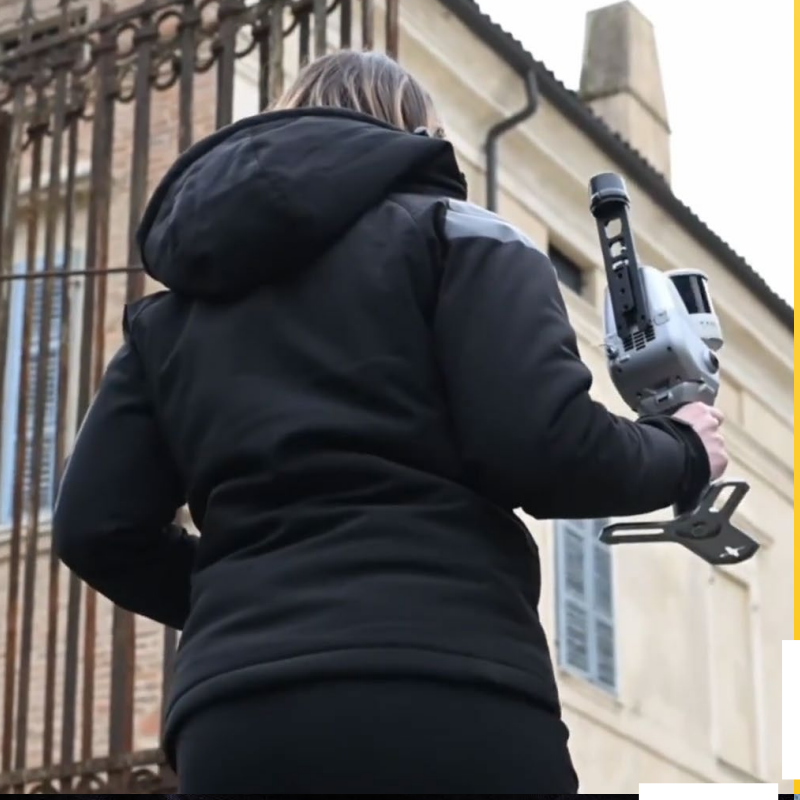
RTK Videogrammetry Module

3Dsurvey RTK videogrammetry is a modern approach in surveying and mapping, leveraging the dynamic nature of video to create 3D representations of physical spaces. Capture RTK-referenced video for mapping in urban or no-fly areas.
RTK Videogrammetry module includes the 3Dsurvey SiteScan app for Android.
Compatible with many RTK GNSS antennas.





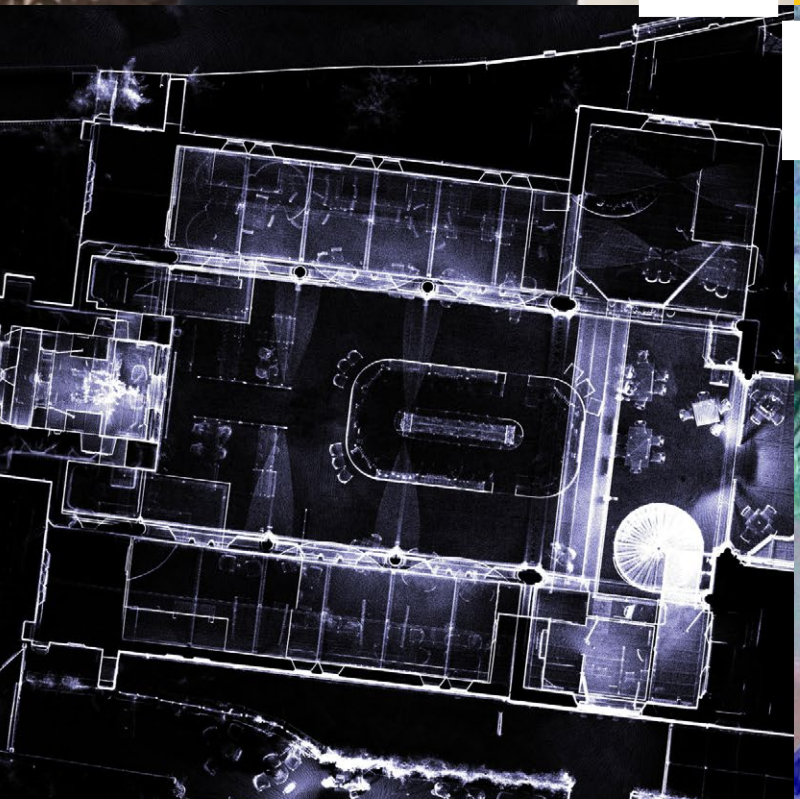




Optional Add-on module

Scan Module

Merge and align point clouds from sources like LiDAR, SLAM, photogrammetry, and more. Offering manual/automatic registration of LiDAR & SLAM scans, 360° panoramas, X-ray views, and automatic line detection.
Indoor mapping, floor plans, structural measurements made easy.





3Dsurvey
CLOUD

A perfect tool for sharing results with your clients. Directly integrated with 3Dsurvey desktop software, easily upload, manage and share your data for comprehensive and simplified project management. Various project viewing formats and 75GB storage included. Available at no additional cost with active Perpetual and Subscription Licenses.



Partner Network

With a Partner Network of **70+ resellers** in over 30 countries, 3Dsurvey delivers true global reach with local support. Built by surveyors and trusted by professionals, our partners help customers adopt modern survey workflows with confidence and hands-on expertise.

Our Distributors and Gold Level Resellers

3GON Positioning — Czech Republic

NB-geo Geospatial Solutions — Spain

caddy GEOMATICS — Germany

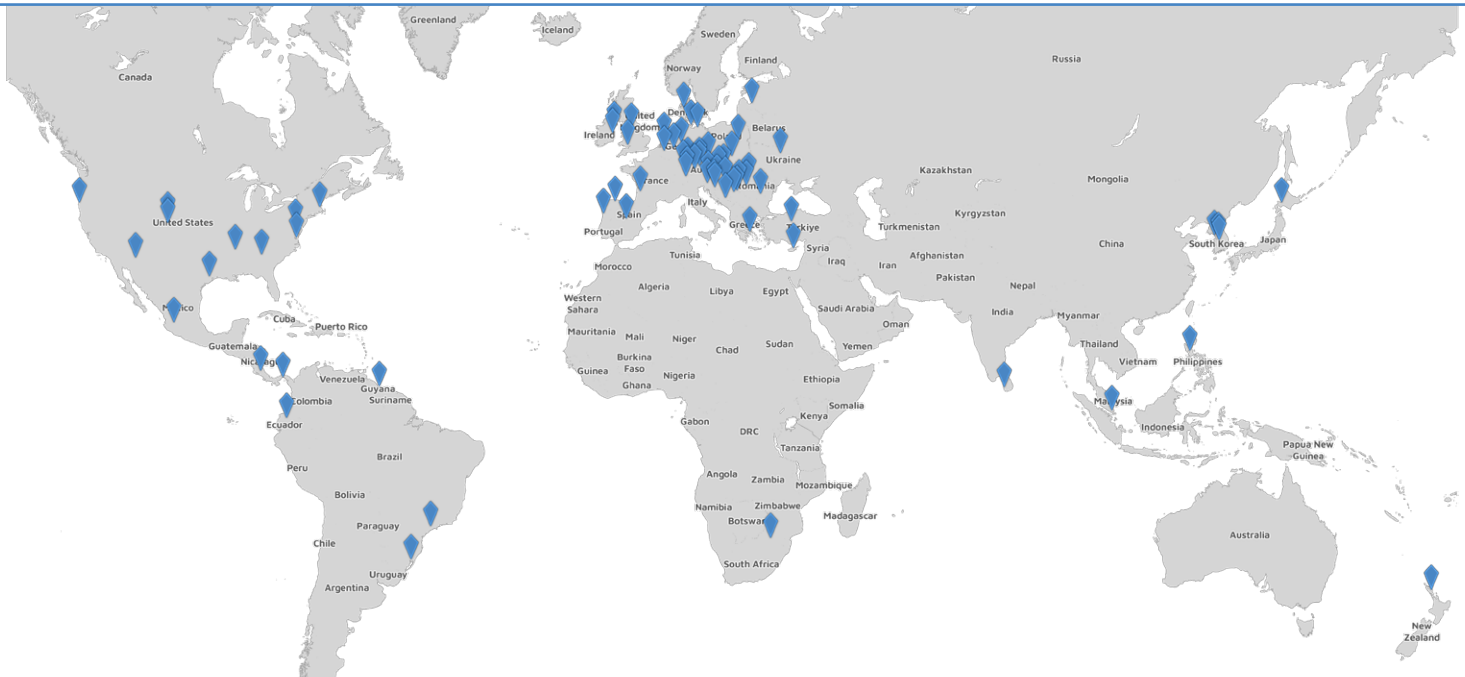
NaviGate — Poland

TREE COMPANY — Greece

SURVEYORS SOURCE Instruments, GNSS, Training & Support — United States

ECO — Mexico

exertis | ALMO — United States



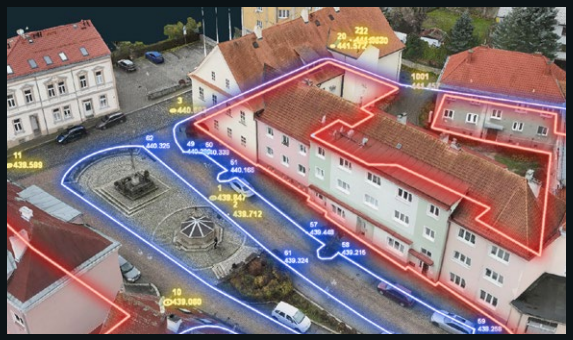
Built for Professionals Across Industries

3Dsurvey is developed based on real field experience to empower professionals who rely on **accurate spatial data**.
No matter your industry, 3Dsurvey helps you **deliver precise results faster** with fewer site visits, safer workflows, and seamless communication across teams.

Surveying & Mapping

One workflow from drone to CAD.

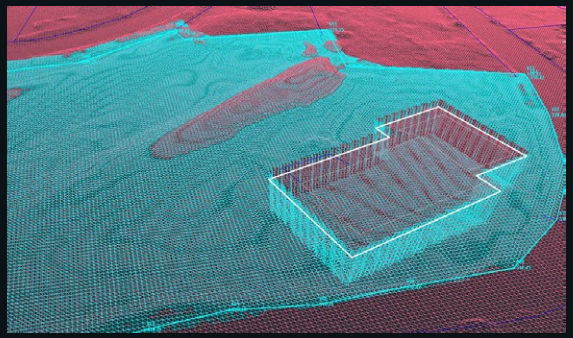
- Orthophotos, contours, DSMs
- Volumes & CAD
- Reliable, documented results



Construction & Infrastructure

Track, verify, deliver.

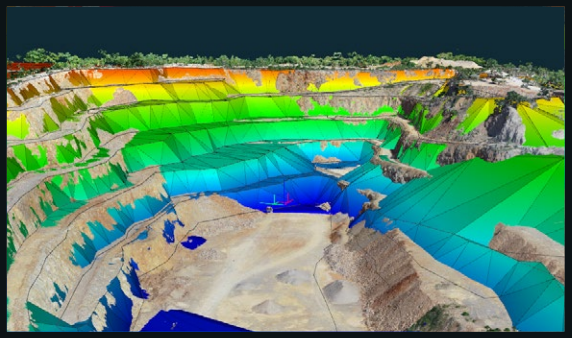
- Orthophotos, cut/fill maps
- As-built comparison & site progress monitoring
- Faster approvals, less rework



Mining & Quarries

Measure safely and precisely.

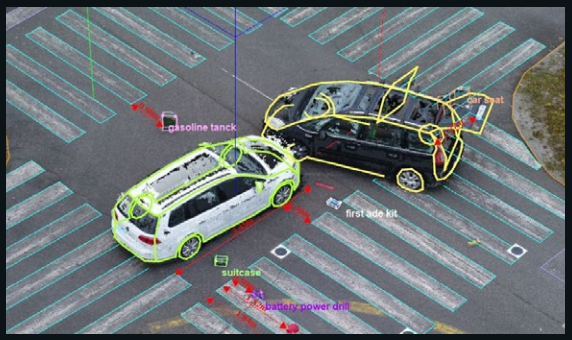
- Stockpile & surface volumes
- Monthly / yearly site reports
- Accurate inventory control



Public Safety & Inspection

Document & preserve in 3D.

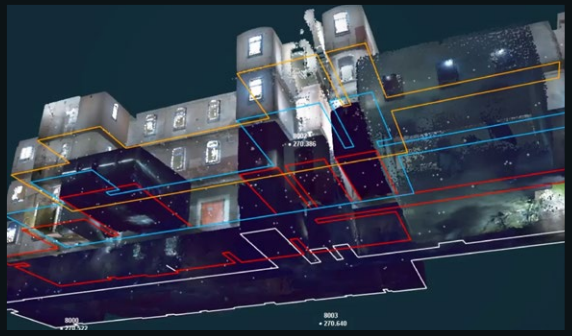
- 3D models, orthophotos, plans
- Court-ready visualizations
- Permanent digital records



Architecture & Heritage

See every detail, remotely.

- Facade orthophotos, 3D models
- Defect mapping, annotations
- Shorter downtime, safer sites



Trusted worldwide by surveyors, engineers, and construction professionals

Here's what some of our customers have to say:



D2 Surveying LLC (USA) — Land Surveying

Rising project demand meant traditional survey workflows couldn't keep up. D2 Surveying integrated 3Dsurvey for drone data processing, CAD deliverables, and reporting in one platform.
Result: Mapping efficiency skyrocketed and **operating expenses dropped significantly.**

"3Dsurvey is a game-changer for our entire business."



Šuštar Trans d.o.o. (SI) — Construction

Managing volume calculations and construction documentation across multiple tools was slow and cumbersome. Switching to 3Dsurvey simplified data processing, making meshes and orthophotos easy to create and more affordable than other programs.
Result: Streamlined workflows, faster data processing, and reliable support from the start.

"A solution that makes our construction workflows much easier and more efficient."



SOM Survey (RSA) — Mining

Stockpile measurements used to take days, required repeat site visits, and carried high safety risks. SOM Survey switched to 3Dsurvey, combining drone flights and LiDAR scans into one seamless workflow. **Result:** Projects now finish **8× faster**, with operational costs reduced and long-term profitability up **600% per year**.

"3Dsurvey completely transformed our workflows and the economics of our projects."



Leon Malan, SOM Survey

Ready to see it for yourself?

Start your 14 day free trial or book a live demo today

www.3Dsurvey.si
www.3Dsurvey.si/freetrial

Real Results:

Faster, Safer, More Profitable Projects



Fewer Site Visits

Capture all required data in a single visit. Less returns to the field in case you forgot to measure something. The 3D model stores all the details you may need to use for the future.

Result: Construction teams report **significantly fewer return visits** to site, cutting travel time, fuel expenses, and downtime.

Efficiency

Faster Project Turnaround

Process, analyze, vectorize, and deliver in one workflow - all in a single software.

Result: Average surveying company completes projects **8× faster** than with traditional methods.

Speed **Profit**

Lower Costs & Higher Accuracy

Integrated CAD tools, precise georeferencing, automated line detection, and volume calculations reduce human error and final result costs.

Result: Users achieve **up to 79% lower data acquisition costs** compared to competing solutions.

Lower cost

Accuracy

Scalable & Future-Proof

Start with core 3Dsurvey functionality, add RTK Videogrammetry or Scan Modules as needed, and benefit from continuous product improvements driven by user feedback.

Result: New features like **CAD on images** and **automatic line detection** were added based on real customer requests (Navigate Poland).

Scalability

User-friendly

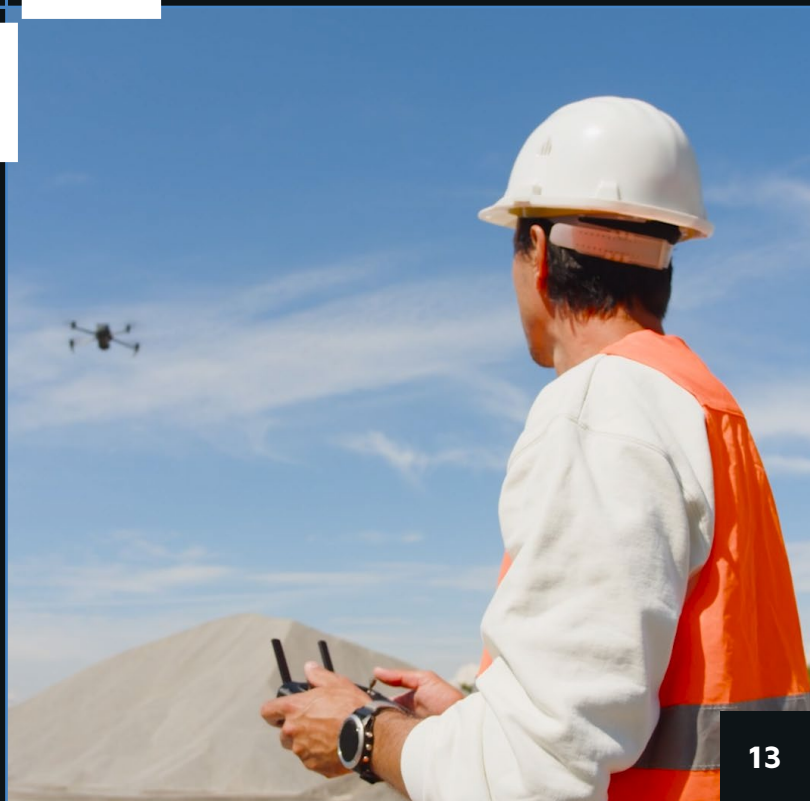
Better Collaboration

Use Cloud Viewer to share results online so stakeholders can view, measure, and approve projects directly in their browser.

Result: Customer feedback shows project approvals up to **50% faster** thanks to online collaboration.

Simplicity

Collaboration



Features & Modules at a Glance

Core 3Dsurvey Capabilities

Photogrammetry Engine

Process aerial, terrestrial, LiDAR, SLAM, and video data into point clouds, meshes, DSM/DTM, and orthophotos.

One platform replaces 3–4 separate software tools.

Integrated CAD Tools

Vectorize directly on point clouds or mesh, use drawing on images tools for extreme precision, create custom planes and go perpendicular for faster survey map generation inside 3Dsurvey.

Deliverables ready for engineering and design without external CAD.

Measurements & Analysis

Measure volumes, 2D/3D distances, slopes, areas, create contour lines, profiles and cross-sections, output automatic reports.

Accurate project documentation with fewer errors and rework.

Multi-Source Projects

Combine drone imagery, ground photos, LiDAR, SLAM scans, RTK video, and existing datasets in one project.

No switching between tools for different data sources.

Aerial & Terrestrial Imagery

- Aerial images
- Terrestrial images
- Underwater images
- 360° spherical images
- RTK video data
- Orthophoto maps from 3rd-party software

Survey & Geospatial Measurements

- Total station data
- GPS/GNSS points
- Ground control points
- Existing CAD data
- Various geospatial file formats (dxf, LandXML,...)

Point Clouds & Surfaces

- Photogrammetry point cloud
- LIDAR point cloud
- SLAM point cloud
- Bathymetry sonar point cloud
- DEM / DSM imports

INPUT



OUTPUT

Raster / Image

- Orthophoto (tiff, jpg, png, kmz)
- Quick sketches (pdf, jpg, png)
- Undistorted images

3D Models / Meshes

- Textured 3D model (*.obj)
- Regular grid mesh
- Irregular grid mesh
- Digital surface model (obj, xml)

Survey / GIS Data

- CAD drawings (dxf, shp, kml,...)
- Contour lines (dxf, pdf)
- Profile lines (dxf, pdf)
- Selected points (dxf, txt, xyz)
- Volume reports (docx)
- General project report (docx)
- Camera parameters
- Survey maps (dxf, pdf, jpg)

Point Clouds

- PLY, E57, LAS



System Requirements

Minimum

Windows 7, 8, 10; 64 bit, Intel i5 or Ryzen 5, 16 GB RAM, nVidia GTX 1050 or better, SSD 128 GB + HDD 500 GB

Recommended

Windows 11; 64 bit, Intel i7 or Ryzen 7, 32 - 64 GB RAM, NVIDIA RTX 5060 Ti 16 GB, SSD 2 TB (NVMe)

Professional

Windows 11; 64 bit, Intel i9 or Ryzen 9, 64 - 128 GB RAM, 2x NVIDIA RTX 5060 Ti 16 GB, SSD 4 TB (NVMe)

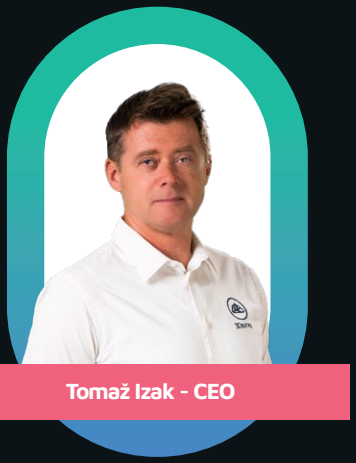
Our Story

At 3Dsurvey, we know the challenges of fieldwork because we've lived them.
3Dsurvey was founded in 2011 by 3 land surveyors, **Tomaž Izak**, **Marko Mesarič** and **Vid Peterman**.

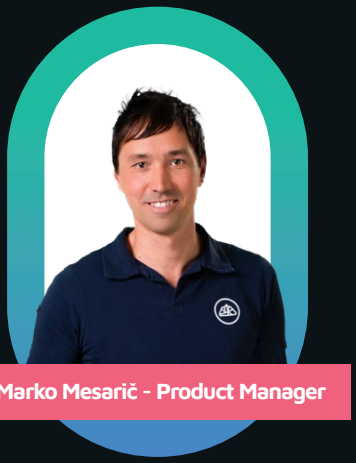
It was created out of a need to reduce the amount of time spent in the field, and to supplement traditional land surveying methods. Over 10 years later, 3Dsurvey is positioned as one of the **leading providers of photogrammetry software worldwide**.



Vid Peterman - CTO



Tomaž Izak - CEO

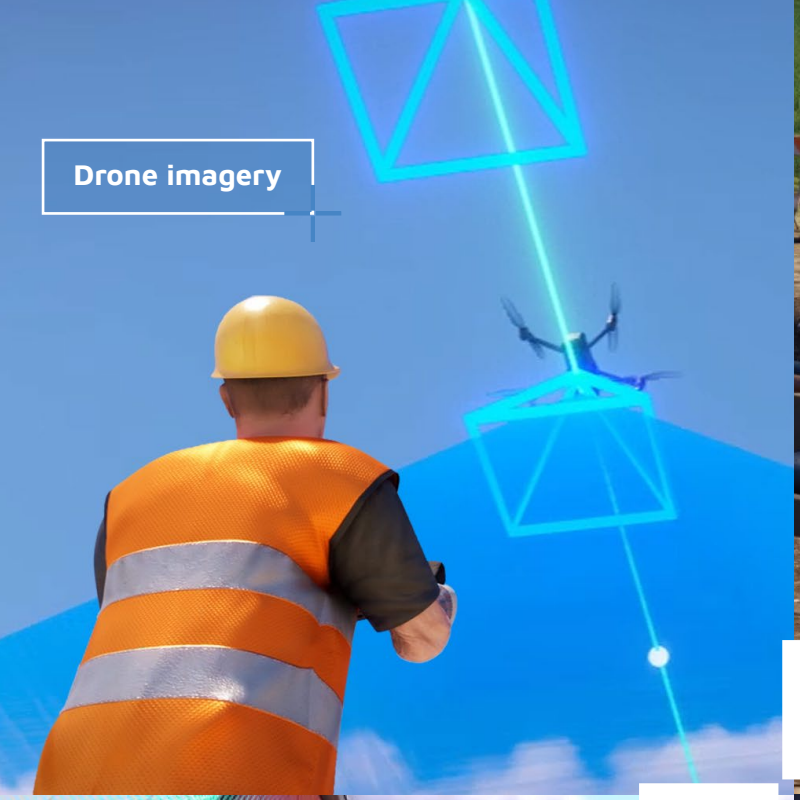


Marko Mesarič - Product Manager

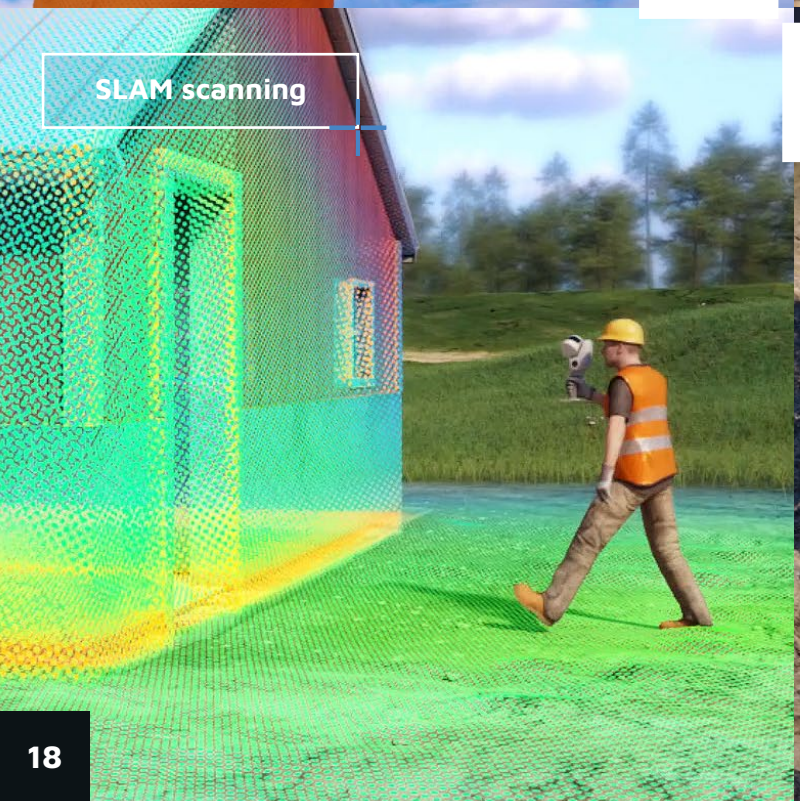
Discover our extensive resources here:

Free to access, with no paid onboarding
or extra training fees required.

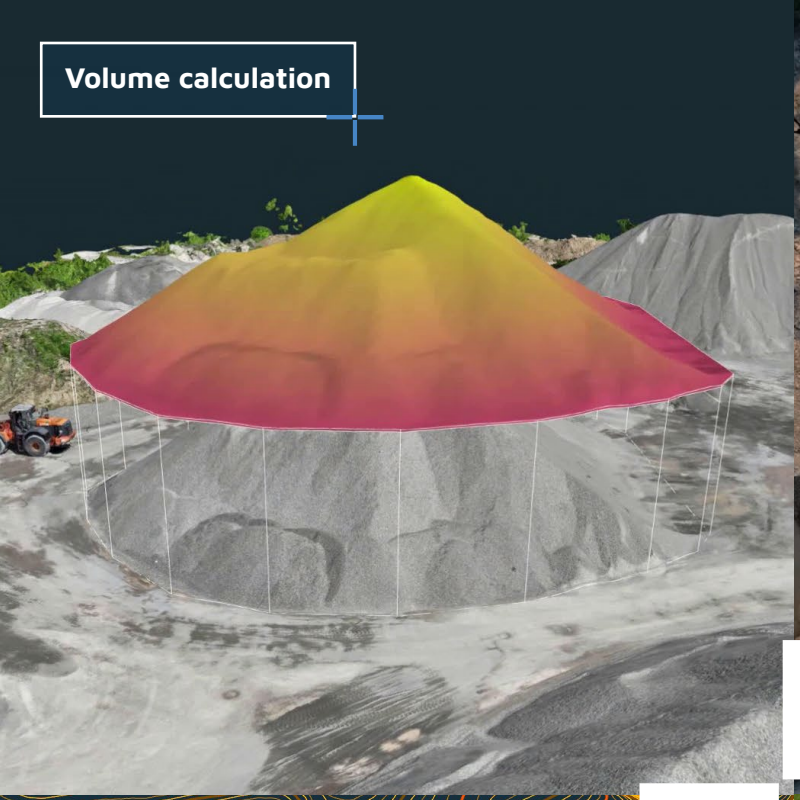
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www.3Dsurvey.si/resources

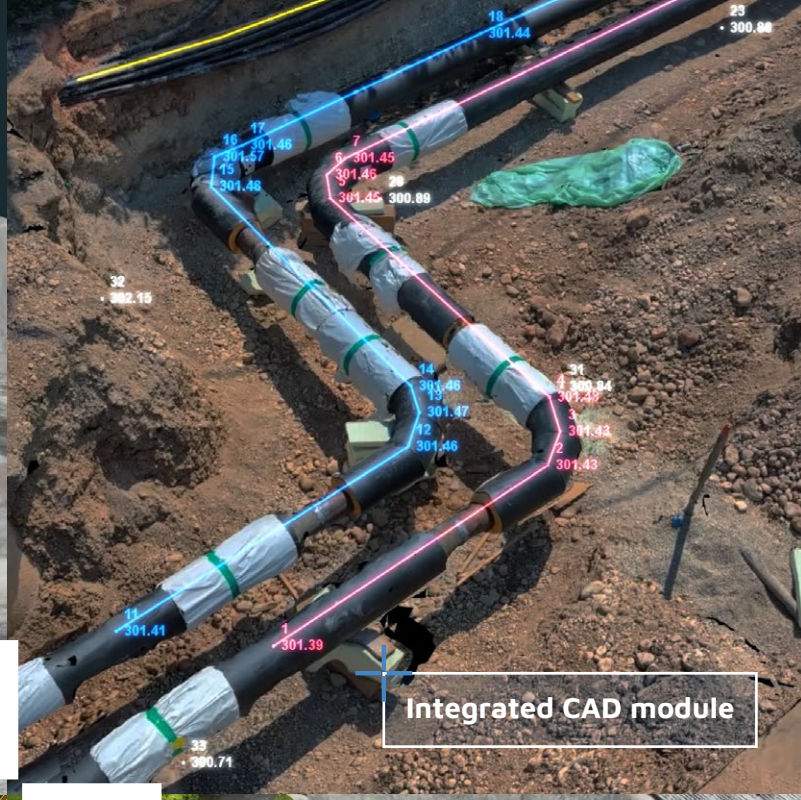

Drone imagery

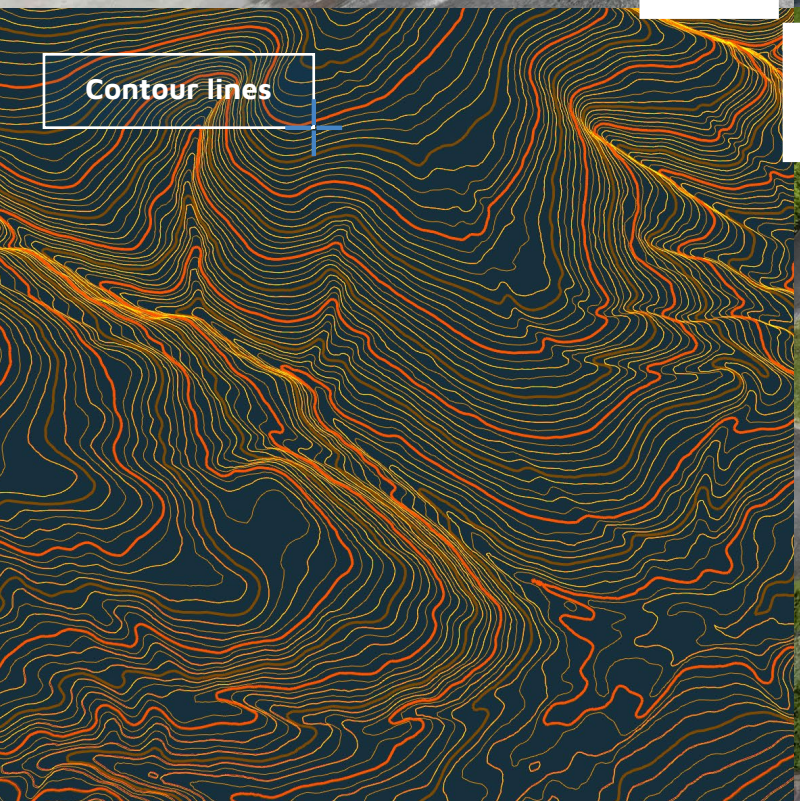

RTK Videogrammetry

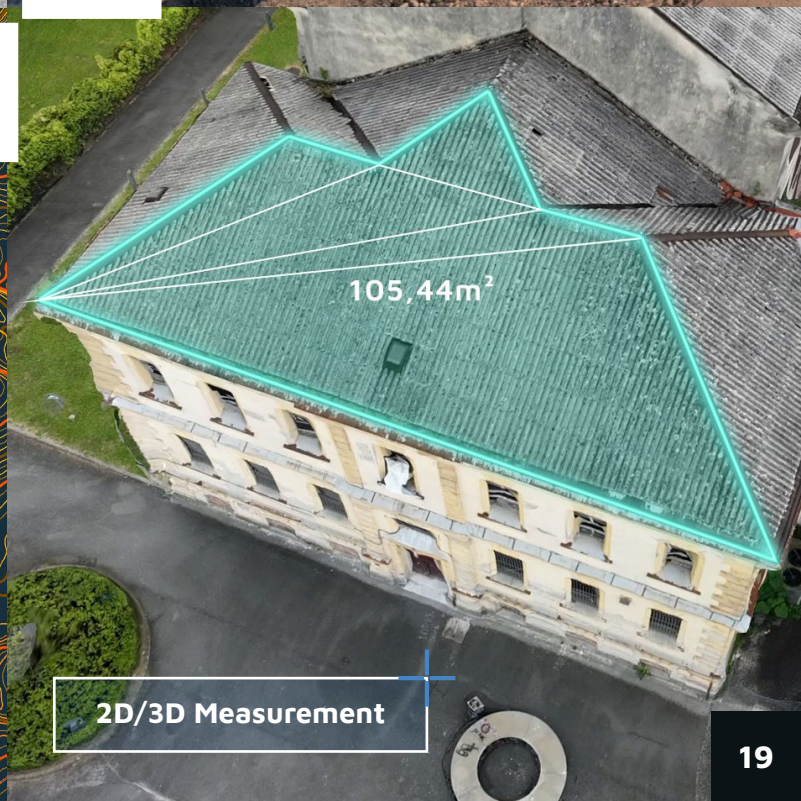

SLAM scanning


Aerial LiDAR


Volume calculation


Integrated CAD module


Contour lines


105,44m²
2D/3D Measurement