

## About Datumate

Datumate is digitally transforming civil engineering processes used in Construction, Surveying and Infrastructure Inspection markets with fully automated, high precision and cost effective solutions that keep field crews safe. Datumate utilizes state-of-the-art computer vision, big data analytics, machine learning, drone and camera technologies that dramatically reduce the amount of time surveying crews spend in the field, speed up construction progress and shorten infrastructure inspection duration, while maintaining survey grade accuracy.

Datumate's intuitive, simple and automated solutions and services increase productivity by delivering quick, precise and analyzed field progress data for civil engineering and construction infrastructure projects such as roads, intersections, stockpile volumes, topography, piping, industrial facilities, bridges, property surveys, building facades, railways, cellular infrastructure and more.

Datumate core competency is rooted in a team of construction experts and high-tech professionals. Datumate is a Construction-Tech company that promotes innovation and digital transformation in the traditional construction market.

Datumate was recognized by CIO review magazine as one of the "20 most promising construction technology solution providers 2017 that are at the forefront of providing technology solutions for the construction industry and impacting the marketplace".



# SITE SURVEYING SOLUTIONS

## Field-to-Plan Process Automation

### Ideal for wide range of surveying, construction, infrastructure and inspection projects



Roads



Junctions



Topography maps



Bridges & towers



As-built maps



Building facades



Stockpiles/  
Volume calculations



And more

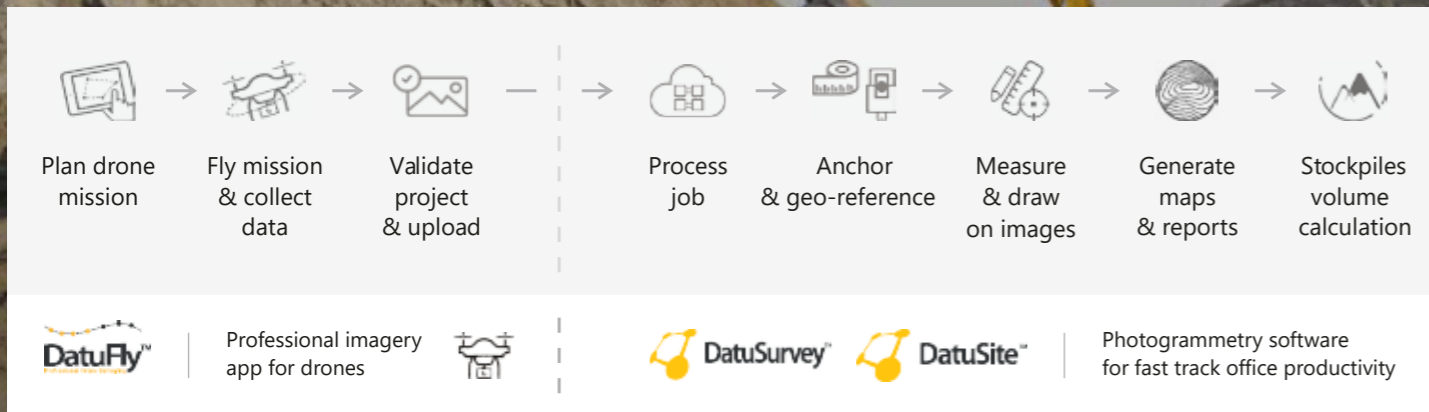
Professional tools for surveying, construction and infrastructure inspection projects

e-mail: [info@datumate.com](mailto:info@datumate.com)  
website: [www.datumate.com](http://www.datumate.com)

Save  
Operational Costs.  
Accelerate  
Time-to-Value.

Datamate's professional surveying tools dramatically reduce Field-to-Plan duration, while maintaining survey grade accuracy. From ground or aerial photoshooting to high precision working model or plan, Datamate's solutions cut expenses and achieve faster results.

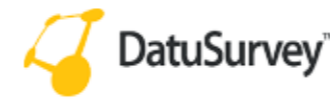
Field-to-Plan



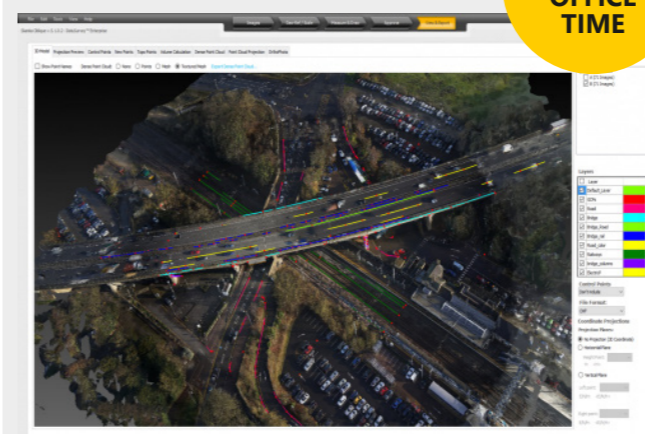
From Drone or Ground Based  
Photo Shooting



to a High Precision Working  
Model and Plan



SAVE UP  
TO 30%  
OFFICE  
TIME



Photogrammetry Software for Fast Track  
Office Productivity.

DatuSurvey™ turns aerial and ground photography to accurate, georeferenced 2D maps and 3D models, saving the need for expensive and risky field work.

**Automated & Intuitive Process**

- Quick and automated process from image taking to maps, models and reports
- 3D model generation for CAD software and Dense Point Cloud visualization in mesh and texture

**Professional, Survey Grade**

- High precision map generation – 1:100 scale maps
- Highly accurate volume calculation by marking GCPs directly on images
- Multiple outputs – Orthophoto, projection on 2D planes, volume calculation, DTM, point cloud, 3D texture and mesh model
- Vertical and oblique images support for optimal results in diverse job types

**Safe Surveying & Inspection**

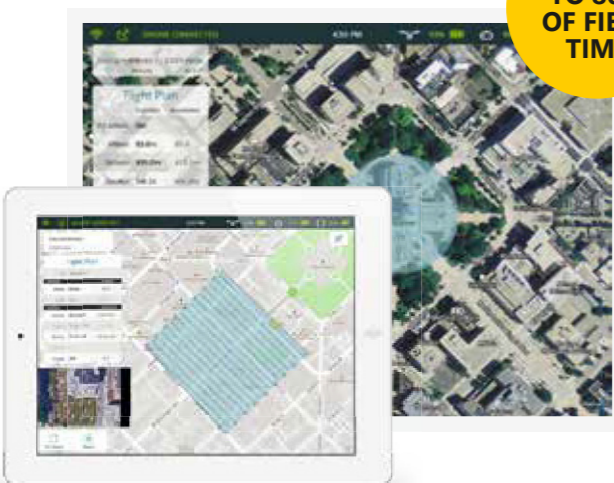
- Integrated with DatuFly™, a professional imagery app for drones

**Time & Cost Savings**

- Large-scale project support
- Draft objects and make measurements directly on images
- Hybrid image processing using aerial and ground imagery



SAVE UP  
TO 80%  
OF FIELD  
TIME



**Simple & Intuitive Operation**

- Plan the job using a friendly, wizard type, tablet app
- Easily mark the area or point of interest

**Field Process Automation**

- Flight and photoshooting optimization per job type, such as topography, stockpiles, roads, intersections, properties, etc.
- Vertical and oblique photoshooting

**Safe Surveying**

- Avoid surveying related risks
- Safety wizards and pre-flight checks

**Large Projects Support**

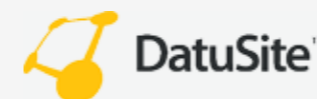
- Multiple batteries and flight continuity support
- Auto return to base for battery exchange and resume from where left off

**Expedited Field Work**

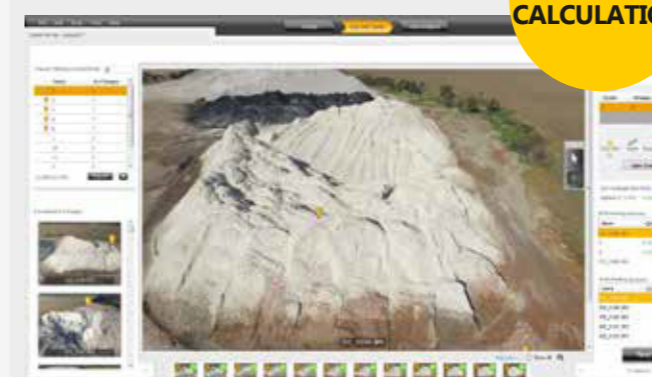
- Saves up to 80% of field time and significantly reduces follow-up visits
- Save projects and execute them again over time to find variations

Professional Imagery App for Drones

DatuFly™ is a tablet app for easy flight planning and automated, high resolution photoshooting, optimized per job type. The image-taking plan is executed based on the best practice requirements of DatuSurvey™ and DatuSite™, Datamate's comprehensive photogrammetry software that automates surveyors' office work.



FAST  
CUT & FILL  
CALCULATION



Automated Takeoff Solution for Excavations  
and Construction Projects.

DatuSite™ is a designated construction and surveying software that uses aerial and ground images to generate geo-referenced 2D maps and 3D models, enabling earthmovers and construction contractors to expedite the earthwork planning process, estimating with speed and accuracy and winning more bids.

**Simple & Intuitive Process**

- Quick and automated process from image taking to maps, models and reports
- Automated and quick stockpiles volume calculation in less than an hour - no office nor cloud processing required

**Professional, Survey Grade Tools**

- Direct work on dense point cloud
- Multiple outputs – Orthophoto, projection on 2D planes, volume calculation, point cloud, 3D texture and mesh model
- Export of models and maps using multiple density levels and file types
- Vertical or oblique images support for optimal results in diverse job types
- Automatic rough scaling and anchoring, based on GPS data

**Ideal for Earthmoving & Excavation**

- Cut and fill calculation and map generation for clear understanding of project scope and more accurate bids
- Precise volume calculation by marking GCPs directly on images