

# OUR PARTNERS

**Bentley**

Is the leading global provider of software solutions to engineers, architects, geospatial professionals, constructors, and owner-operators for the design, construction, and operations of infrastructure.

**esri**

Is an international supplier of geographic information system software, web GIS and geodatabase management applications.

**dji ENTERPRISE**

Is a global team dedicated in developing world-class drone solutions for agriculture, energy, public safety, survey, mapping, and more.

**quantum systems**

Was founded in January 2015 and is specialized in the development and production of automatic transition fixed-wing aircrafts for civilian use.

**ZF**  
Zoller-Fröhlich

Is one of the leading suppliers of terrestrial and mobile laser scanners.

**Terra solid**

Is the industry standard software for point clouds and images processing, developed specifically for the demanding requirements of engineering professionals.

**CLEAREDGE<sup>3D</sup>**

Has a track record of technological innovation and thought leadership in the Automated Feature Extraction, laser scanning and 3D modeling space.

**PIX4D**

Is a Swiss company that develops a suite of software products that use photogrammetry and computer vision algorithms to transform images into 3D maps and 3D modeling.

**MicaSense**

Strive to help growers, land managers, and researchers use drone-based imagery to make informed decisions.

**PHASEONE**

Is a leading researcher, developer and manufacturer of medium format and large format digital cameras and imaging Systems.

**YellowScan**

Fully integrated, ultra-light and easy to use, these highly automated data collection tools are employed by customers around the world in fields such as surveying, forestry, environmental research, archeology, industrial inspection, civil engineering and mining.

**ZWSOFT**

Is a reliable provider of all-in-one CAx (CAD/CAM/CAE) solutions with self-developed 2D CAD, 3D CAD/CAM, and electromagnetic/structural simulation technologies.

**Matterport**  
RESELLER

Is the leading spatial data company focused on digitizing and indexing the built world. Our all-in-one 3D data platform enables anyone to turn a space into an accurate and immersive digital twin.



## REALITY MODELLING

### INTEGRATING BIM-ENABLED DIGITAL TWINS

Reality modeling is the process of creating accurate digital models representing the current state of an infrastructure asset. Creating visually and dimensionally accurate 3D digital models based on photographic imagery or laser point clouds. Capture, process, or reuse existing site condition data with our 3D imaging and point-cloud processing software. Streamline capture-to-model workflows, eliminate time-consuming translations, and accelerate image and point-cloud data performance to provide precise digital context for design, construction, and operational decisions.

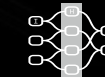
### DIGITAL TRANSFORMATION



Machine Learning



Problem Solving



Neural Networks



AI



Internet of Things

Rapidly changing environments and difficulty of accessing clear survey lines can make it challenging to gather accurate spatial data with traditional surveying and mapping methods. Adopting reality modeling can improve margins by offering users engineering-ready reality meshes, orthophotos, digital surface models, digital terrain models and point clouds faster. Reality modeling is uniquely positioned to take advantage of this opportunity due to a number of characteristics:

1 - 3D models can be quickly created of the current, as-is, state of an infrastructure asset which are both visually and dimensionally accurate. These models are referred to as reality meshes.

2 - The reality meshes created in the way integrate seamlessly with other modeling tools design applications. This integration enables detailed reality meshes without requiring any translation or transformation. Further, the reality meshes can be edited in a variety of ways to suit a particular use case.

3 - All the standard deliverables can be directly created from these integrated models, e.g., 2D drawings, 3D PDFs, renderings, animations, 3D prints.

This unique characteristics of reality modeling tools make possible a broad range of opportunities: ( Design in context, Interactive inspection, Construction monitoring/status, Environmental analysis, and Safety and security analysis)

Contact us: [www.geomatex.com](http://www.geomatex.com)  
esabry@geomatex.com

Tel/Fax: +20225191569  
Egypt: +2 01221751275



DATA ACQUISITION TOOLS

DRONES





**M300 RTK**

Engineered to Adapt. High-performance motors paired with 17-inch propellers ensure stable flight in strong winds while an enclosed design ensuring weather and water resistance, so you can fly in a wide range of environments.







**Trinity F90+**

Trinity F90+ demonstrates its range advantage in comparison to classic multicopters and other fixed-wing drones due to the longer flight time and covers up to 20x larger areas.

PAYLOADS





**ZENMUSE L1**


L1 forms a complete solution that gives you realtime 3D data throughout the day, efficiently capturing the details of complex structures and delivering highly accurate reconstructed models.






**ZENMUSE P1**

The Zenmuse P1 integrates a full-frame sensor with interchangeable fixed-focus lenses on a 3-axis stabilized gimbal designed for photogrammetry





**Altum**

The ultimate solution for accuracy, flexibility, and power. Altum captures synchronized thermal, multispectral, and high resolution imagery in one flight, producing aligned outputs for advanced analytics.





**iXM-100**

Uniquely designed cameras for UAV-based aerial imagery, the revolutionary Phase One iXM series redefines the boundaries of technological innovation.





**Mapper**

The YellowScan Mapper UAV LiDAR system is equipped with a high-performance Livox Horizon laser scanner from Livox, a DJI-backed company. With a great point density, this LiDAR sensor allows our LiDAR system to fly easily at 70m AGL with a 120m swath.





**Qube 240**

The Qube 240 LiDAR sensor inherits the YellowScan Ultra Surveyor LiDAR scanner. Advances in miniaturization and performance improvements across the board now increased range and accuracy with a significantly smaller form factor which has a cost reduction of over 50% for the overall system.


LASER SCANNERS






**IMAGER® 5006EX**

The 5006EX is the only explosion-proof laser scanner in the world with ATEX certification with possible battery change in explosive environment.





**IMAGER® 5016**

The 5016 combines compact and lightweight design with state-of-the-art 3D laser scanning surveyor technology. It is equipped with an integrated HDR camera, internal lighting and positioning system.

SOFTWARE





**EdgeWise**

Modeling from scan data can be a pain. it is slow and often inaccurate, leading to missed


Modeling from scan data can be a pain. it is slow and often inaccurate, leading to missed transform point-cloud data into intelligent and actionable models of the worksite.






**Verity**


Verity compares point clouds against design & fabrication models helping you to find construction mistakes before they become expensive problems & Understand what work has been installed. This is a wholly inadequate workflow for today's complex projects.






**ContextCapture**

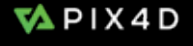
With ContextCapture, you can quickly produce even the most challenging 3D models of existing conditions derived from simple photographs and/or point clouds without the need for expensive, specialized equipment to use throughout the lifecycle of a project.






**Orbit 3DM Feature Extraction**


Complete mapping unit for Image, LiDAR and DSM mapping process features and results in semi- or full automated mode document assets, centralize data management roles and permissions for team work.






**PIX4Dmatic**

PIX4Dmatic is designed to work with the latest generation of drones for professional applications and transforms your large number of images into accurate point clouds, DSMs and orthomosaics





**TerraModeller**

TerraModeler creates surface models (TINs) from various sources. It offers versatile visualization options including colored shaded surfaces, contour lines, grids, colored triangle nets, elevation texts, slope directions and textured surfaces.