



AGM

Rapid Automatic Geo-Mapping (AGM)
turning spatial data into actionable insights



AGM is a rapid, Near Real Time (NRT), automated production system that provides actionable and accurate, high-resolution and high-fidelity mapping, GIS, thematic products and digital twins 3D reconstruction solutions.

AGM utilizes data from any satellite, aerial and drones imagery and videos covering all spectral ranges.

AGM is deployed on-site, as a cloud service and on edge computing.

AGM Features and Capabilities



Products

- 3D TIN mesh digital twin model
- Orthophoto / true-orthophoto
- 3D point cloud
- DSM & DEM
- Classification & vectorization



Sensors

- Visual and thermal imaging
- Sweeping sensors
- Push broom sensors
- Pinhole sensors
- Video



Seamless Integration

- Customizable workflows
- Open architecture, scripting and API
- Installed on COTS PC, edge-computing, local servers or cloud-based
- Industry standard formats



Performance

- Unlimited area size
- Photogrammetric accuracy
- Reproduces source resolution
- Delivering products without reliable GNSS data
- Non photogrammetry sensors
- Supports coarse RPC



Resources

- Agnostic to satellite and aerial imagery source
- Multiple mono imagery
- Mix of satellite and any aerial or drone imagery
- Unifying multiple mission sync resources to a single source



Analytics and Insights

- Volumetric 3D Classification
- Vectorization of roofs, trees and contour lines
- Tools for automated controlled production
- Customized analytics on demand

About Tiltan

Tiltan Software Engineering Ltd. is a leading solution provider specializing in Simulation, 3D Engines, Generative AI Training, Geo-Systems, 3D Content, and Operation Center Systems and Tools.

With over 30 years of experience, Tiltan's simulation products provide a one-stop-shop solution for training, development, and hardware-in-the-loop systems, powered by a proprietary 3D engine and Generative AI.

Our Geo-System products support space, aerial, manned, and unmanned vehicles, addressing registration, localization, and navigation challenges, as well as geo-mapping systems.

Tiltan's in-house content production delivers high-fidelity, geo-specific visual databases, 3D models, and mapping data for VIS, IR, LIDAR, and SAR applications.

Tiltan is driven by a commitment to customer success, excellence, and innovation, ensuring our solutions meet the highest standards of performance and reliability.

