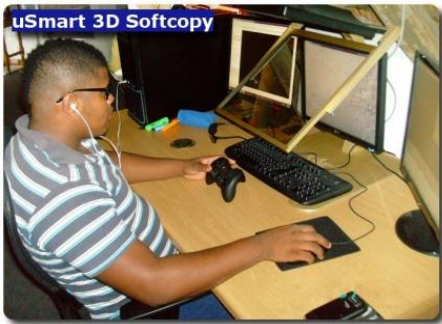


Aerial Surveys

Karto has a wide range of experience in all facets of aerial surveys. The success of our surveys lie in the skill and expertise of our staff members. Our people are passionate about survey, photogrammetry & mapping and strive to extract the best from our technologies driven by project outcome.

We focus exclusively on the capture, analysis, data management and presentation of spatial information.



uSmart 3D Softcopy

Aerial Surveys Services:

- Flight Planning
- Aerial Photography
- Oblique Aerial Photography
- Ground Control Surveys
- Aerial Triangulation
- Topographical Mapping
- Engineering Mapping
- DEM & DTM Generation
- Contours Generation
- 3D Building Models for Urban Design
- 3D & 2D Data Capture
- Orthophoto's
- Historical Mapping
- Rapid Aerial Response
- 3D Fly-throughs
- Aerial Video's

Esna Swart

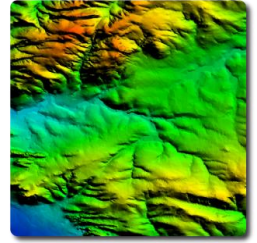
eswart@kartosurveys.co.za

Mobile: +27 (0)71 011 8044

Our main Aerial Survey Products include:

Elevation Data

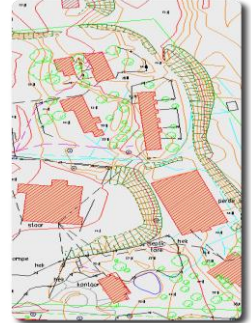
Digital Terrain Model (DTM) are XYZ points and breaklines (lines defining a change in slope) that accurately model the earth surface. The DTM is used for the generation of numerous products including ortho-rectification of aerial or satellite imagery and the generation of contours. Spatial applications include the creation of accurate floodplain maps, terrain models, transportation, infrastructure planning and land-use management.



Vector Data

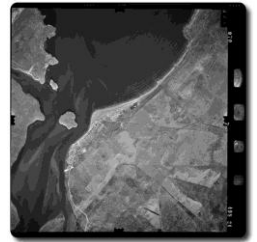
We undertake 2D and 3D topographical & engineering mapping. All data capture is topologically structured and cleaned to ensure data integrity and seamless integration into your existing GIS structure.

- National & Topographical Mapping
- Civil Planning & Design
- Plant/Facility Planning & Management
- Road Design
- Storm Water Management
- Utility Management
- As-Built Surveys
- Mine Mapping and Management



Historical Surveys

We source aerial photography dating as far back as 1935 and utilize modern photogrammetric techniques to aerial triangulate, accurately measure and analyze the photography in a 3D environment. Historical photography allows us to delve in the past, achieving surprising accurate results.



Rapid Aerial Capture for Disaster Management

Karto offers a rapid aerial capture service. We fly and geo-reference near vertical aerial imagery within 48 hours from data capture to aid with disaster management.



Ortho Imagery

Ortho imagery has proven valuable in GIS and mapping applications. Overlaying ortho imagery with existing GIS data such as zoning, utilities, property ownership, mineral rights and cadastral data enables the user to view the various layers in the context of the surrounding landscape and infrastructure, this provides significant benefits for interpretation and analysis. Ortho imagery provides depth to the information that can be extracted from your GIS database.



Oblique photography

Oblique photography is a highly useful and visually pleasing standalone product or a compliment to vertical aerial photo projects, it is particularly suitable for pictorial and illustrative purposes as it provides a true perspective view of the land surfaces. Oblique aerial photography can form the focus point of project promotion and advertising campaigns, providing impressive detailed views of the entire project.

