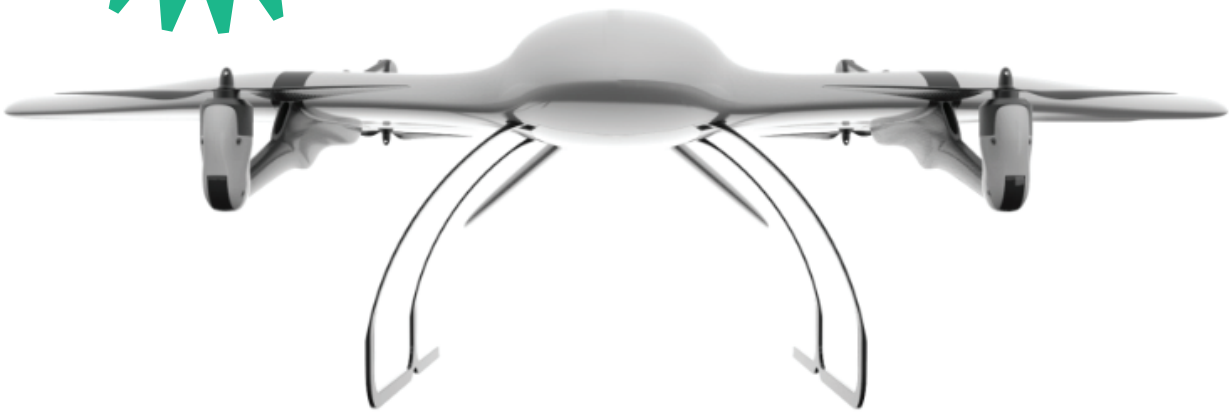
SMOPS SA

Multi Faceted Company



Drone Surveying & GIS Mapping Specialists.

Robyn Lindsay

Director/Pilot
+27 82 855 6865
robynlindsay12@gmail.com

Jacque Oldfield

Director/Pilot
+27 83 392 6747
shoot2killfilms@gmail.com

Introduction

Smops SA is a South African based company specialising in drone surveying and mapping operations worldwide. We are the first African company to own professional VTOL (Vertical Take-Off and Landing) surveying drones, equipped with survey grade GNSS technology. Our state of the art equipment allows us to provide our clients with higher accuracy and greater versatility than anything else on the market. Through years of experience, research and working side by side with drone developers worldwide, we have managed to remain steps ahead of our competitors by integrating the latest technology into our workflow. Thus, we are able to supply our clients with a wide variety of services tailored to their specific needs at the most cost effective prices.

Mission Statement

At Smops SA, we aim to be the leader in all aspects of drone services in the industry. Our goal is to empower businesses, big or small, with affordable, easily accessible and accurate surveying data and GIS designs.

We strive to be the preferred partner of our clients by consistently delivering quality services with licensed employees that apply world class, innovative and often proprietary technology with the highest level of integrity and professionalism.

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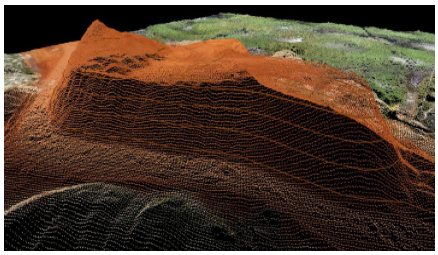
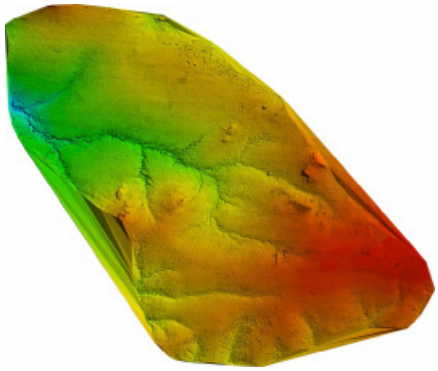
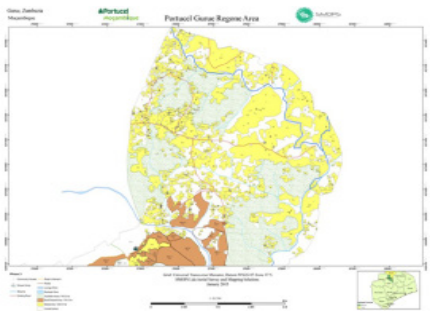
Our Services

Smops SA uses the latest drone surveying technology to deliver geospatial information to a wide variety of industries. We provide services to support mining operations, infrastructure development, environmental and agricultural planning and rehabilitation. We are able to supply accurate data for the planning and documenting of new or existing infrastructures.







Land Surveying & Mapping Services

- Surveying of objects and ground to generate georeferenced orthomosaics, point clouds, 3D models, Digital Elevation Models and Digital Terrain Models.
- Topographical maps illustrating contours, water shedding, roads.
- Measuring stockpile volumes.
- Visual and thermal inspection and monitoring of solar parks, wind parks, power lines, pipe lines, railway lines, radio communication towers, dam walls, bridges and structures.

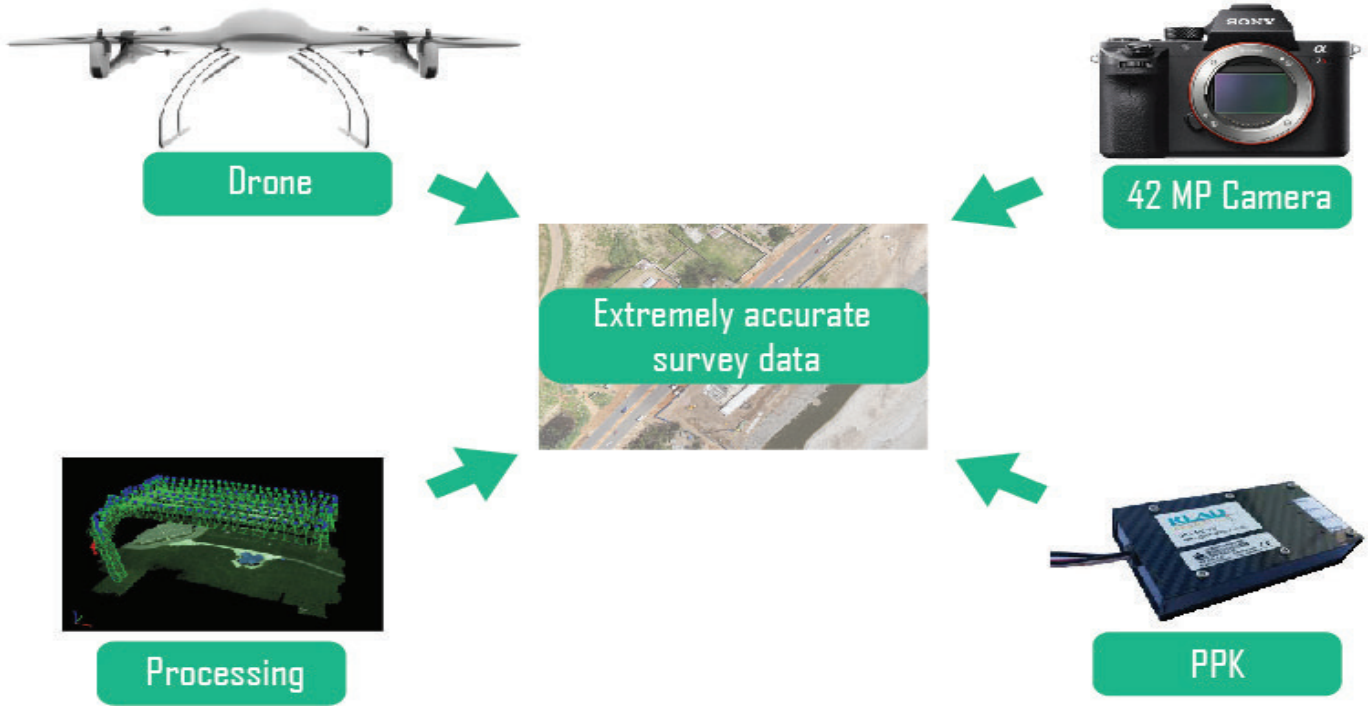
Precision Agriculture & Forestry

- Plant stress assessment
- Monitoring of production
- Yield indication and calculation
- Tree classification
- NDVI maps
- Drainage planning and layout
- Irrigation design, supply and installation
- Weather damage assessment
- Weeds, pests and disease assessment

How our drone technology works

After identifying an area of interest to be surveyed, Smops SA will design a flight plan over that area according to the client's specifications. We ensure consistent GSD (Ground Sampling Distance) across the project by planning our flights according to terrain data. Once on site, one of our licensed pilots will fly the area using a drone that is equipped with our 42mp RGB camera (unless otherwise specified) and PPK positioning system, resulting in high quality, georeferenced images.

Once the flying is done, the images and precise camera co ordinates are downloaded and processed in our drone-specific software according to the output file formats requested by the client.



Why us?

What makes Smops SA the ideal choice for your mapping project is our flexibility and reliability. We are able to offer our services in even the harshest environments because:

- Our drone has a flight time of 2 hours. This allows us to cover more area per day and access hard to reach areas.
- Our drone has a high wind tolerance and is able to fly in wind speeds of up to 13m/s, providing less down time on projects when compared to other commercial mapping drones.
- We use a patented VTOL aircraft which has the ability to perform as a multirotor or a fixed wing aircraft. The multirotor function allows us to take off and land in confined spaces, where most fixed wing mapping drones require 30 meters or more. The fixed wing function allows us to cover greater areas.
- We are able to adapt any payload up to 2kg which allows us to customize solutions according to specific job requirements.
- The key to accuracy in any mapping or 3D modelling project is control. This can be either GCP's (Ground Control Points), or camera locations, the precise point where each photo was taken. At Smops SA, we use a PPK positioning system which produces the most accurate camera locations, allowing us to reduce or eliminate the need for GCP's and saving our clients time and cost while increasing accuracy and reliability. With our PPK system we are able to achieve cm level accuracy.

Please feel free to get in touch with us should you require any further information!

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