

Say Goodbye

to all restrictions,

Welcome

the freedom of the open sky
to meet all the challenges



UAV Survey and Non -Destructive Inspection Technology



Labour reduction



High work efficiency



Cost saving



Time efficient



Safer



NDT
Non-Destructive Testing



Industries we serve



Construction Industry



Petroleum Industry - Oil and Gas



Agriculture, Precision Farming



Mining Industry



Telecommunications



Energy Industry



Canal Irrigation



Transportation



Search and Rescue



Town Planning and Real Estate



Law and order - Aerial Security

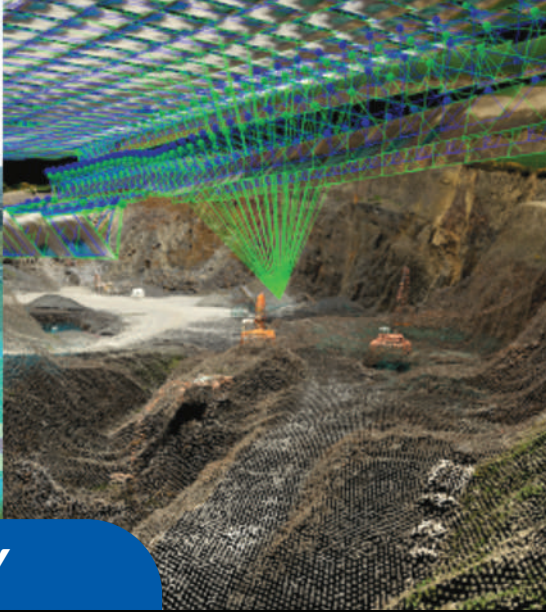


Insurance Industry

NDT INSPECTIONS

In all these industries our drones prevail as our UAV inspections follow Non-Destructive Testing Methods.

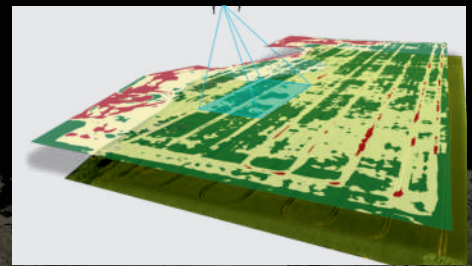
We do not interfere with the existing infrastructure or tamper the topography of the area. We achieve this with the advantages of drone mobility and flexibility and ensure environmental standards and personnel safety



MAPPING & SURVEY

TOPOGRAPHY SURVEY

Our drone services offer detailed aerial topographical survey of landscape along with variation in land heights, also 2D and 3D mapping of wide and inaccessible areas. According to the camera characteristics and ground control points, an accuracy of less than 2 cm can be obtained with limited resources.

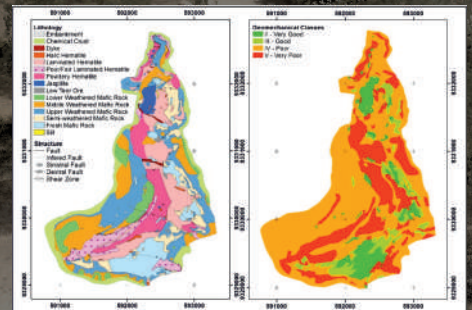


GEO-MECHANICAL MAPPING.

The mining industry has been at a great advantage since UAVs have been introduced to the industry. Our drones provide high quality and accurate geo-mechanical data, when analysed, predict the behavior of rock and soil within a mine or other excavation.

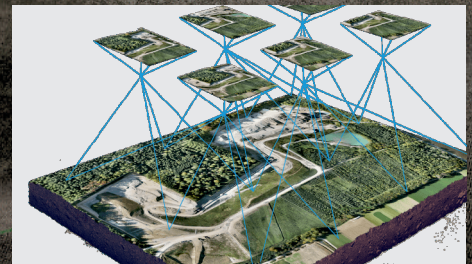
This knowledge is valuable when it comes to the ongoing management and operation of mines and other excavations, as it will assist with planning and risk identification and its mitigation.

This Geo-mechanical data of any terrain or landscape helps in calculating the stability of its natural slope and plan a protection strategy.



GIS MAPPING AND PHOTOGRAMMETRY

The data is processed in photogrammetric software, along with updated Google Earth and GIS layers to generate orthophoto, base map, and volumetric analysis. We provide high resolution images that serve a variety of uses. They can be transmitted, shared and printed. Software can turn them into topographical maps, heatmaps and more.



ORTHOIMAGERY

Orthoimagery is the image collected via a drone in order to capture high-resolution photos of the Earth's surface. The imagery is orthorectified to create a uniform scale. The derived product is an exact representation of the Earth's surface that can be used to measure true distances.



INFRASTRUCTURE INSPECTION SERVICES

UAVs are revolutionizing the inspection industry.

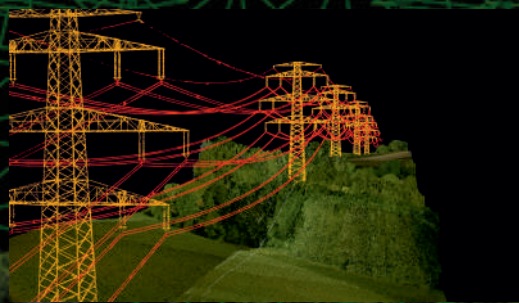
Our dynamic drone solutions offer inspectors a professional tool for viewing difficult-to-access areas where humans cannot reach, giving them a safer, more cost-efficient way of gaining greater insight into operation-critical processes.

Our drone inspection services provide detailed and quick drone inspection for critical asset infrastructure.

This includes bridges, pipelines, transmission towers, electrical grids and other facilities, whose structural integrity and safety play a crucial role.

POWER TRANSMISSION LINE INSPECTION

Thermographic analysis plays a major part in this, to point out the overheating of insulation or wires, in addition to corridor inspection, wire breaks, Corona detection and a lot more.



TELECOMMUNICATION TOWER INSPECTION

Increase work efficiency, save labour and cost by using drones to perform inspection operations that were conventionally done by workers climbing up these towers.

The drones carry out the inspection in both visual and thermal spectrum to identify Structural or mechanical defects.



SOLAR PLANT INSPECTION

Drone equipped with thermal camera is the best choice for solar panel field inspection.

The structural damage and connection issues are the major defects that we come across here, as a result heat signatures are elevated in those areas which can easily be captured by our thermal imagery.



FLARE STACK INSPECTION

Flare stack inspections have the ability to focus on specific areas such as the flare tip, radiation shield, pilot ignition systems, pipework, gantries and handrails, it can also give a general overview of the flare stack condition.

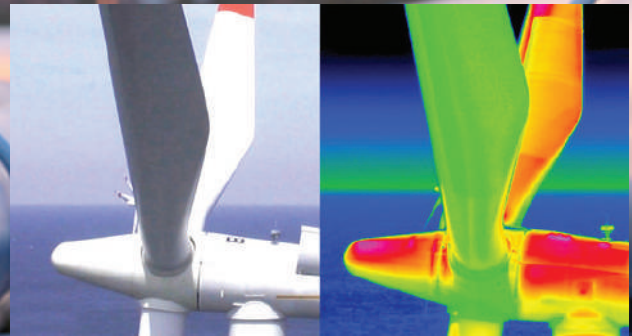
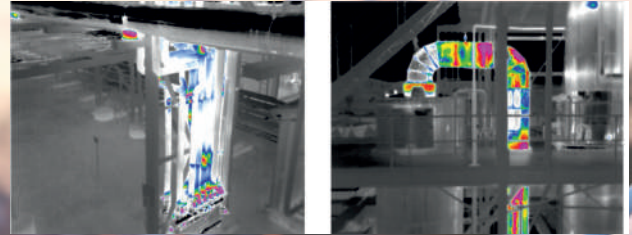
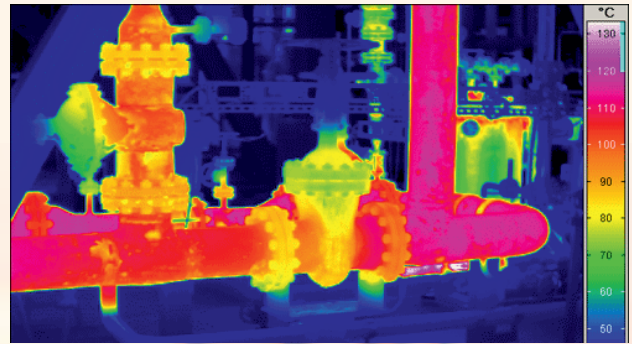
Our drones inspect flare stacks whilst they remain operational. There is no need to shut them down and people are not required to work at height.



GENERAL UTILITIES

We have a vast host of inspections that spreads over confined areas like Space Tanks and Pipelines, Wind turbines, Anchor systems, Davits and Scaffolds, Lightning protection systems, Material and Paint analysis, also transportation facilities like Railways, Airports, Seaports etc.

Apart from the versatility and improved efficiency in the visual inspection, our drones, equipped with high quality and thermal imaging camera, perform a Non-Destructive examination during the flight. The analyzed results from these data allows the inspector to judge more accurately.

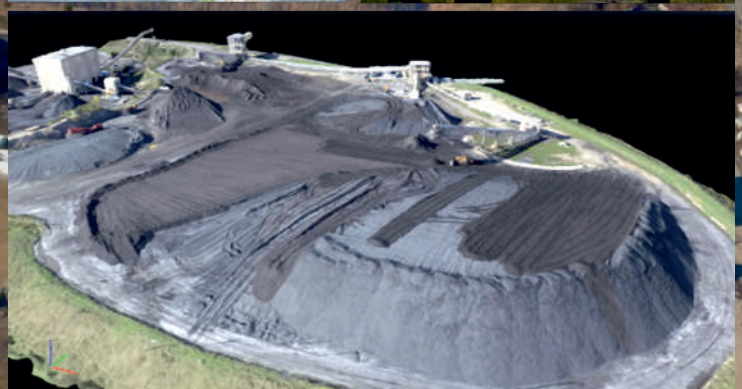


STOCKPILE CALCULATIONS/ESTIMATIONS

Quantity estimation of raw material is an essential part of the inventory management and auditing. Efficient quantity estimation is important for uninterrupted flow of material and stock management.

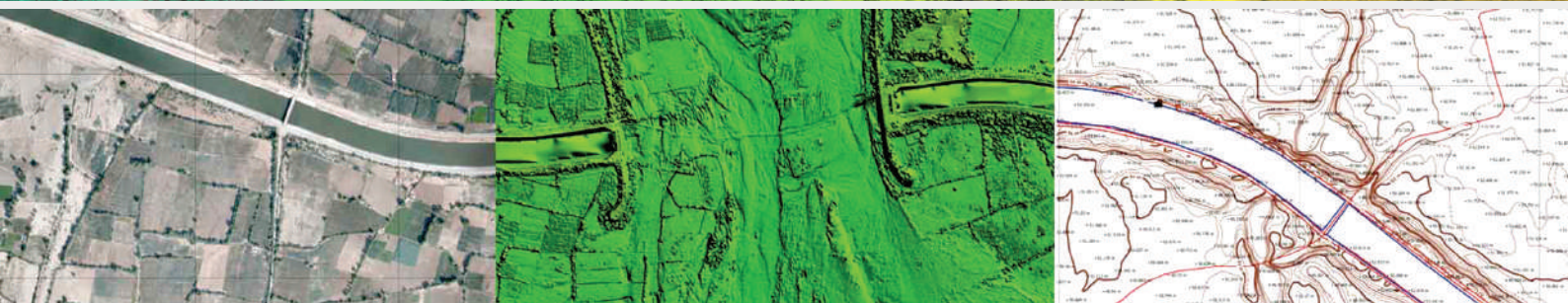
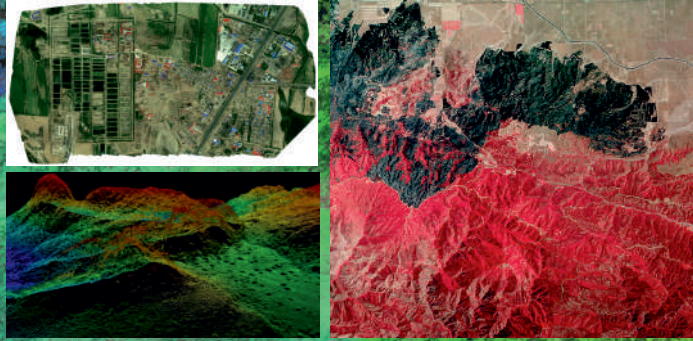
UAV based quantity estimations are becoming popular option for mining, construction and agriculture industries. Landfills, dumping yards are also utilizing the benefits of drones.

The area is mapped and converted into a dense point cloud, making it feasible to map the irregular and uneven form of stock. The data is chiseled out in such a way that all external noises arising out of presence of unwanted objects like vehicles and uneven slope are eliminated, thereby leaving only the stock for measurement. Apart from this our drones can help in mapping the carpet / dead stock at the site.



CAMERAS AND SENSORS

Our drones are equipped with latest technology camera and sensors like 4K High resolution camera, Multi Spectral Camera, Thermal camera, Ultraviolet and infrared camera sensors that help us develop the required format of images like RGB, CIR, NIR, NDVI etc.



UAV AND DRONE DATA PROCESSING

DATA ACQUISITION

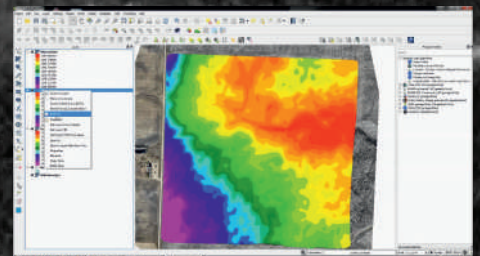
A team of experienced and expert drone pilots and observers reach the area to be surveyed. They use the drone equipped with necessary sensors, which fly over the land area and collect massive amount of data of the same.

DATA PROCESSING

The data collected by drones is processed based on the type of its application. Geological survey achieves centimeter level accuracy. Data can be used for Volumetric estimation or Thermographic inspection based on the need.

REPORTS AND ANALYTICS

The processed data gives highly accurate results. Reports generated from a drone's view helps you to take necessary decision about your construction project, industrial premise, historical architecture, agricultural field or any other land.



SHOWROOM OF A WIDE RANGE OF UAVS

We offer UAVs that capture high-resolution three-dimensional terrain measurements and perform inspections with precision and accuracy.

Inspection of confined spaces made easy

- Improved accessibility
- Distance lock feature
- GPS free Stabilization
- Collision sturdiness
- Robust Transmission
- Oblique and Dust proof lighting



We offer an end to end drone service starting with the supply of the UAV, the after sales servicing or maintenance acquiring the required approvals/ Permits to operate the UAV



Drone Supply



After sales and maintenance



Permit

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