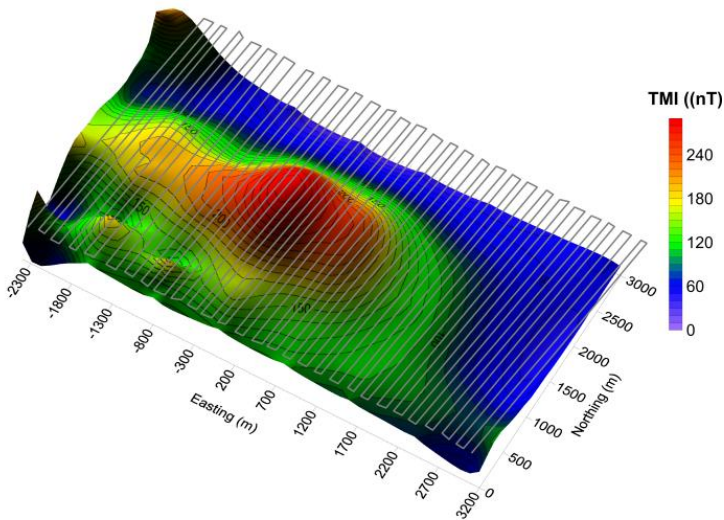


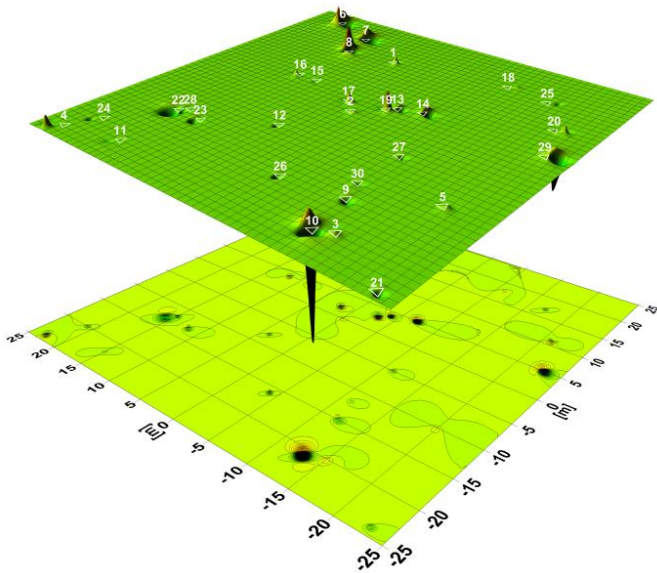
# MOBILE GEOPHYSICAL TECHNOLOGIES

## UNMANNED AIRBORNE GEOMAGNETICS MINING | UXO DETECTION | DETECTION OF BURIED OBJECTS



### MINERAL RESOURCES EXPLORATION

In recent years an important development in aeromagnetic surveys is the application of unmanned aircrafts. Compared with ground surveys a UAS allows faster and cheaper coverage of large areas. Such systems can be used at low altitude and in hostile environments that would not allow helicopter surveys. The use of a UAS is ideal for collecting very dense data over small grids. Autonomous flight capabilities are very efficient and allow data collection at constant terrain clearance.



### DETECTION OF UXO AND BURIED OBJECTS

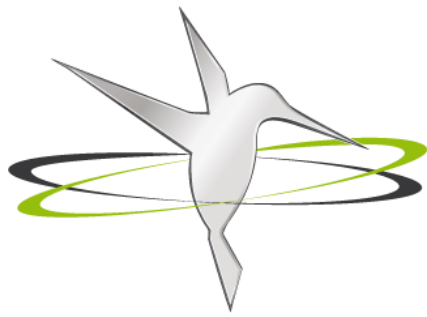
Unexploded ordnances (UXO) pose a significant public safety hazard in many parts of the world. They occur on or near the surface and down to depths of several meters below the ground. One of the most established techniques for ordnance detection is magnetics. This method is very effective at locating buried metallic objects such as UXO. MGT is very successful in the use of drones which allow for cost effective wide area scanning with near 100 % coverage and near 100 % detection of subsurface ordnance and objects.

### ADVANTAGES OF DRONE BASED GEOMAGNETICS

- Low operational costs
- Safe operation in rough terrain
- Little logistics in remote areas
- Automatic and reproducible data acquisition
- High daily production rate

### OUR SERVICES - WORLDWIDE

- project & logistics planning
- management of legal requirements
- on-site data acquisition
- Data processing and geophysical interpretation using generally accepted standards



## AIRBORNE SENSOR SYSTEMS



### **SINGLE MAG SYSTEM**

#### **MINERAL EXPLORATION | ARCHEOLOGY**

- 5 kg MTOW Hexacopter platform
- 1 fluxgate magnetometer
- **production rate: 2.5 km<sup>2</sup> / day**  
(50 line km @ 50 m line spacing)



### **DUAL MAG SYSTEM**

#### **UXO DETECTION | MINING | BURIED OBJECTS**

- 5 kg MTOW Hexacopter platform
- 2 fluxgate magnetometers
- **production rate: 5 ha / day**  
(25 line km @ 2 m line spacing)



### **PENTA MAG SYSTEM**

#### **UXO DETECTION | BURIED OBJECTS**

- 10 kg MTOW Octocopter platform
- 5 fluxgate magnetometers
- **production rate: 10 ha / day**  
(25 line km @ 4 m line spacing)