

XPOTENTIAL specialises in the acquisition, interpretation and modelling of geophysical data. Our interpretation products are significantly expanded by including input from structural geologists, economic geologists and remote sensing specialists within the group. This multi-disciplinary approach allows us to confidently generate prospectivity maps and identify targets, through applying a Mineral Systems Analysis type approach, based on applicable deposit styles. Ultimately resulting in more efficient exploration projects.

SERVICES OVERVIEW

- Ground Magnetic Surveys
- Ground Gravity Surveys
- Ground Penetrating Radar Surveys (GPR)
- Resistivity (ERT)
- Induced Polarisation (IP)
- Frequency and time domain electromagnetics (EM)
- Shallow penetrating man-portable time domain EM (Loupe TEM)
- Controlled source audio frequency magnetotellurics (CSAMT)
- Natural source audio frequency magnetotellurics (NSAMT)
- RadonX™



OUR INTEGRATED APPROACH



SURVEY DESIGN



DATA ACQUISITION



STRINGENT QAQC & PROCESSING



INTERPRETATION OF RESULTS



INTEGRATION OF ADDITIONAL DATA SETS



TARGETING

APPLICATIONS

- Mapping of subsurface geology and structure.
- Delineation of geophysical anomalies through their unique physical properties.
- Mapping of regional density contrasts for early stage and advanced projects.
- Identification of basement domes related to mineralization.
- Mapping of cover thickness and basement depths.
- Identification of conductive anomalies and structures relating to mineralisation or groundwater.
- Mapping of shallow (10-30m) subsurface conductivity contrasts, metallic objects and infrastructure.
- Identification of near surface fractured rock aquifers.
- Identification of potential near surface hazards (e.g. cavities).
- High spatial resolution near surface conductivity mapping.
- Kimberlite targeting at regional scale and mapping of pipe margins.
- Geophysical domaining and lithostructural interpretation.
- Detecting uranium at depth.
- Bespoke solutions tailored to your project requirements.

