**Case History: Mapping Ultramafic Base Metal Targets using Integrated Magnetics and Gravity**

The survey area was prospective for base metals and both Resolution™ airborne magnetic surveys and Equilibrium™ airborne gravity surveys were employed.

**Putting Resolution**™ **Magnetics and Equilibrium**™ **Gravity Surveys into Action for Base Metals**

In working on the project, the objective was to obtain high resolution magnetics and gravity data that could be used to detect the presence of metallic units in an ultramafic environment. In addition, Lidar data was acquired for precise mapping of the ground surface. The survey image is shown below.



***Figure 1: Terraquest’s specially layered presentation of magnetics, gravity and lidar data (bottom scale) for base metal exploration in ultramafic rocks.***

**The specific results are that:**

* The magnetics data showed three magnetic highs that are interpreted to be ultramafic rocks
* The integrated gravity data illustrated that the gravity data was coincident with the magnetics to the west of the area and that there was a unique anomaly in the centre of the map.
* The area in the centre of the map (gravity data) flanking a magnetic high is indicated as the prospective zone in this environment.

**For More Information**

Terraquest would be pleased to discuss Resolution™ airborne magnetic surveys and / or Equilibrium™ airborne gravity surveys and interpretation approaches with you, including inversions of existing or planned data. For more information, click here <LINK to EASY-QUOTE form>.