# EMIGMA 11 for Vista / W7 / W8.1/W10/W11 Land-Based CSEM

**Concept** 

EMIGMA for CSEM is designed to use the accurate 3D nature of the grounded current source with both current and magnetic excitation

Accurate near-field and far-field calculations utilizing the true aspects of the extended current source Suitable for all land based CSEM.

No limitations to frequency, distance nor azimuth

Allows Multiple Transmitters Multiple electric and magnetic receivers Impedances allowed Multiple frequencies

### **Data Processing**

Electric fields and/or magnetic fields Horizontal and Vertical Components Multiple Transmitters with arbitrary length and geometry Flexible import capabilities Data correction and editing Spatial and digital filters

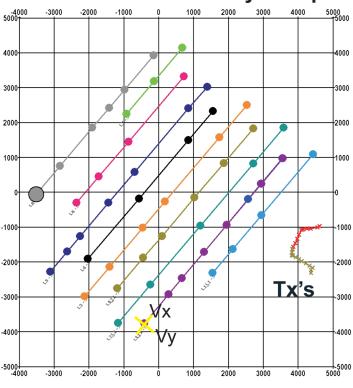
### Data Display/Analyses/Mapping

Survey and data imaging
Multi-component and frequency grids
enabling rapid and thorough data analyses
Contouring with map overlays/underlays

Import/Export maps for many other applications

**Extensive Line Plotting capabilities 3D Visualization** 

### **Geothermal Study Europe**



Processing, Imaging & Interpretation Suite for Mining, Oil & Gas, Geothermal

Exploration, Environmental, Geotechnical, Delineation, UXO

### **EMIGMA 11**

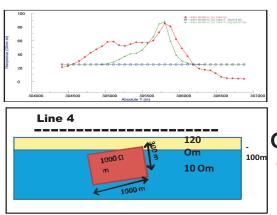
for Vista / W7 / W8.1/W10/W11

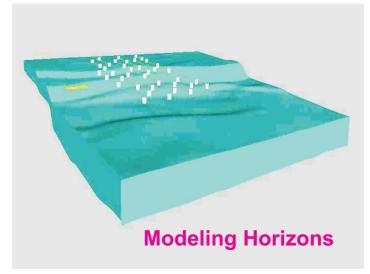
Accurate in the Near, Intermediate and Far Field

## LAND BASED CSEM

### **Modeling**

Fast and accurate 1D and 3D simulations Quasi-2D via arbitrary strike length Import and exports for CAD software Simple integration of models with other types of data





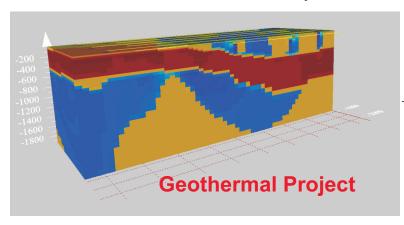
Geothermal Study Central America

### Inversion - 1D and 3D

Joint inversion capabilities for multiple transmitters and receivers

#### 1D Inversions

1D inversions using Occam or underparametrized Trust Region technique Full constraints allowed on resistivity and thickness





### **3D Inversions**

3D inversion of Electric and/or Magnetic data Joint inversion of multiple transmitters and receivers Constrained inversions

Allows constraint of seismic or drill log horizons 3D inversion volume viewing and exporting Multi-processor and array processor capabilities in standard Windows environment

Nevada

Processing, Imaging & Interpretation Suite Oil & Gas, Geothermal, Mining, Groundwater

Exploration, Environmental, Geotechnical, Delineation, UXO