



SMART LINE GEOPHYSICAL SURVEY

Specialist in near-surface geophysics

Phone: 009647702787525

Email: mohammed@smartline-survey.com

DATA PROCESSING SERVICE

Smart Line Geophysical survey can process data provided by third parties. We are also able to interpret processed data and provide written reports and GIS/CAD-compatible files based on our interpretation of the processed data.

Supported data includes...

GROUND PENETRATING RADAR (GPR)

ELECTRICAL RESISTIVITY TOMOGRAPHY (ERT)

We can handle data from almost any geophysical instrument, regardless of the manufacturer. If you are interested in our service, feel free to send us an example data file (*our contact details are on the last page of this brochure or click/tap at the bottom of this page*). Therefore, we can ensure that our software can handle it before you start your next job.

The following images show the power of our Ground-Penetrating Radar and Electrical Resistivity Tomography data processing service. All you have to do is send us the data and we will take care of the rest for you.

Click / Tap [here](#) to send us Email

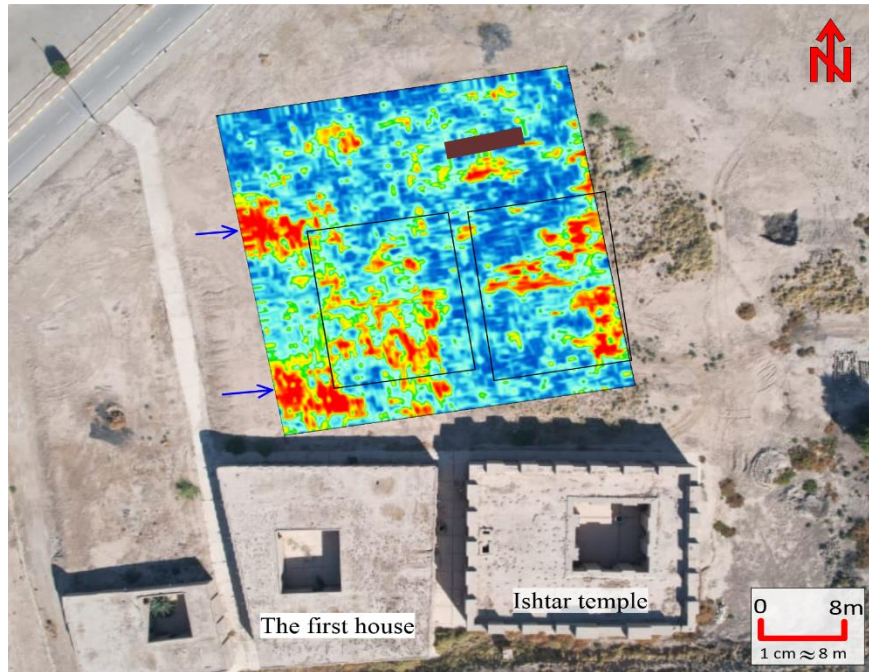


Figure 1. An aerial view of a depth slice of the GPR data collected in ancient Babylon city. It shows the location of expected buried archeological walls at a depth of 148 cm.

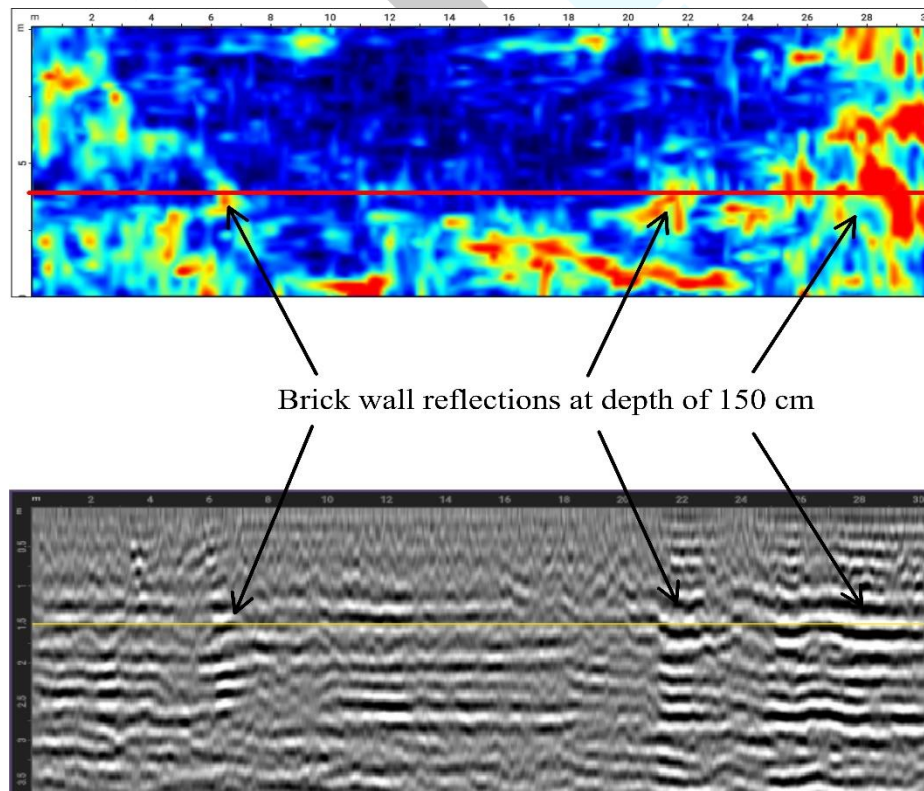


Figure 2. GPR Profile and depth slice at depth 150 cm. The red line refers to the profile location on the slice, whereas the yellow line refers to the depth of reflections on the profile and the slice. Brick walls reflections are identical on both

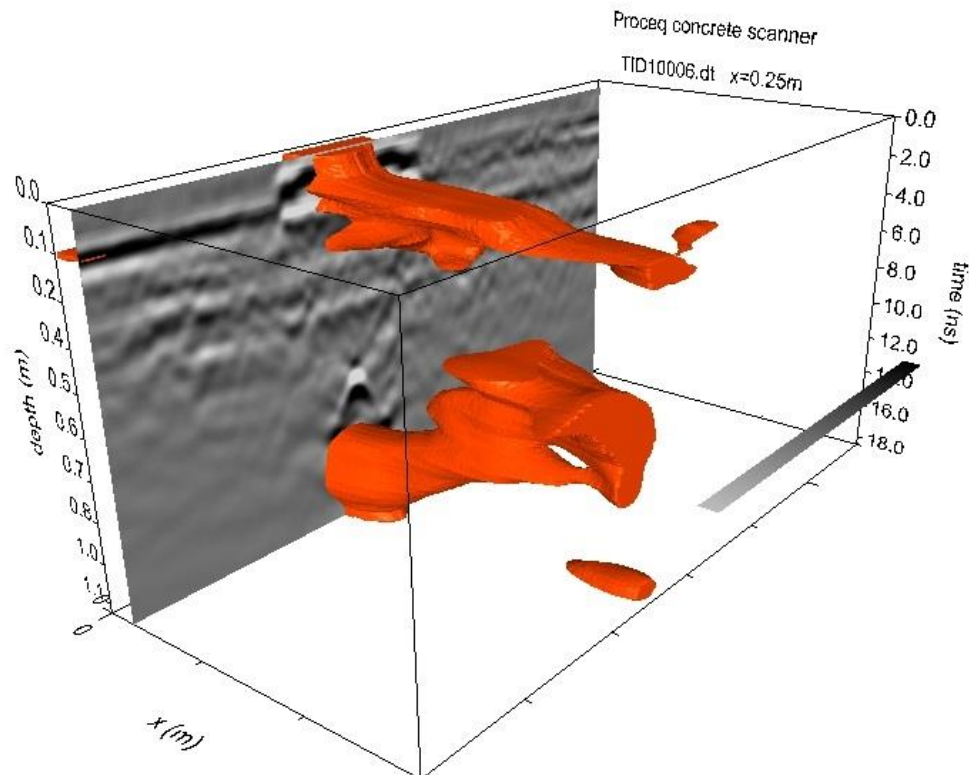


Figure 3. Three-dimensional “isosurfaces” help visualize the approximate shape of buried objects.

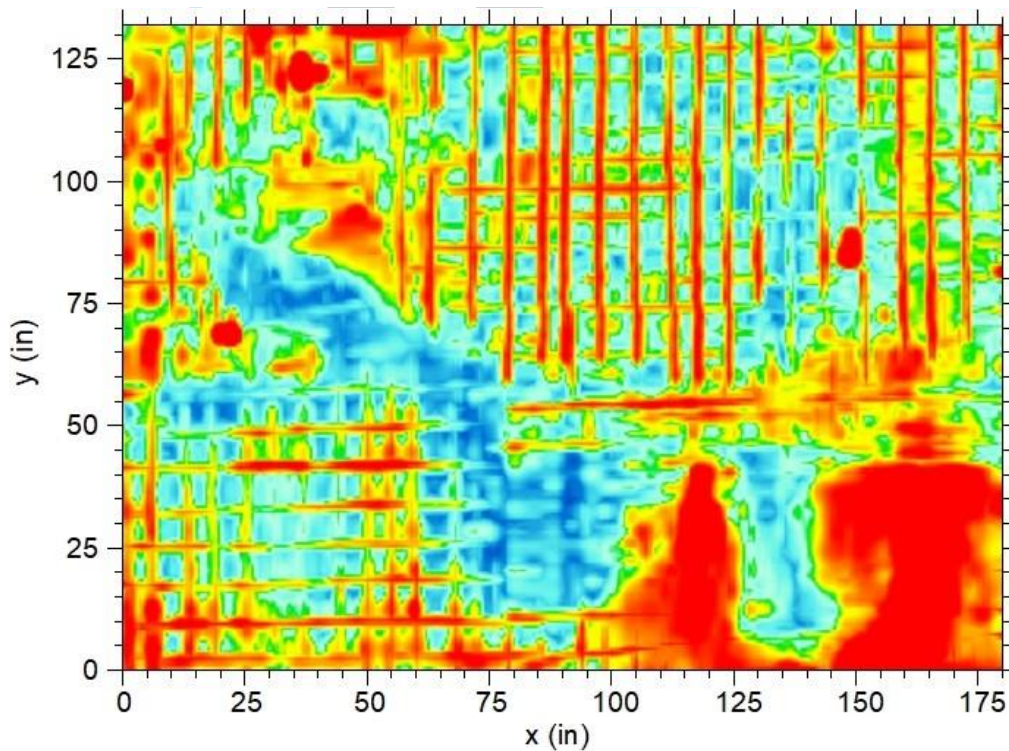


Figure 4. Depth slice showing rebar mesh distribution and the High effected areas.

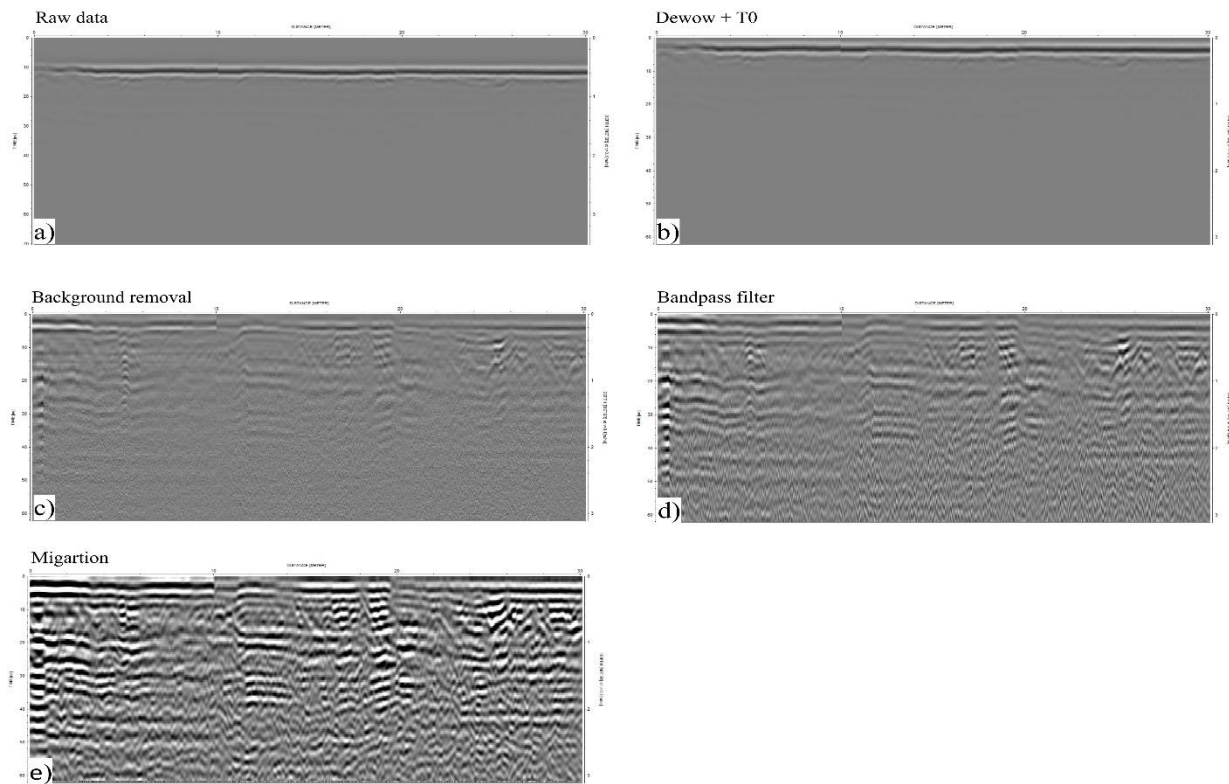


Figure 5. Shows the basic process steps applied on the GPR raw data.

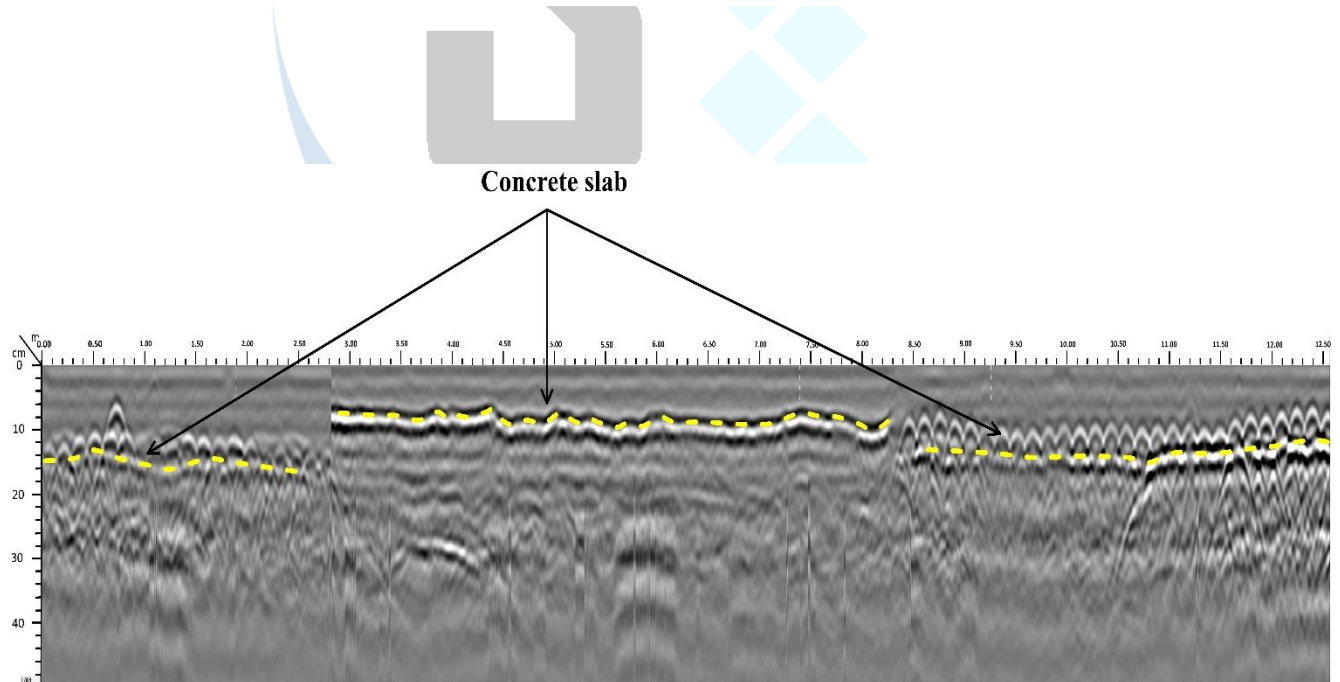


Figure 6. The bottom of the concrete slab is pushed up due to swelling of underlying materials. the other parts of the slab remain at the same level.

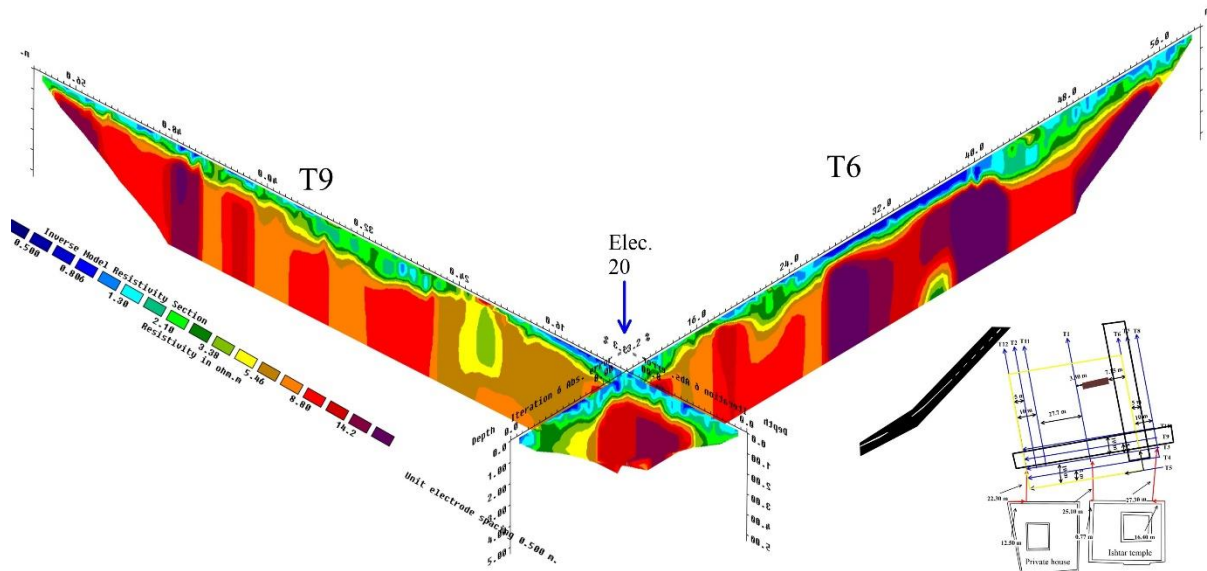


Figure 7. TWO ERT profiles crossed at electrode 20. The wall-like features in the inverse models (blue arrow) are perfectly coinciding together.

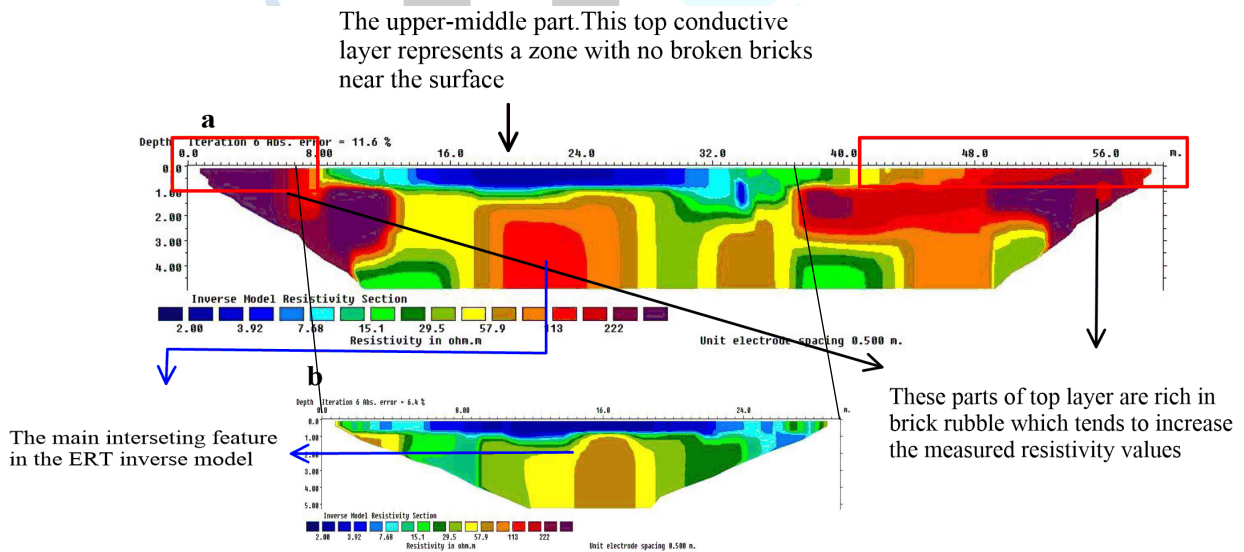


Figure 8. Inverse models of the same electrical resistivity tomography (ERT) data. (a) The original profile and (b) the trimmed profile.

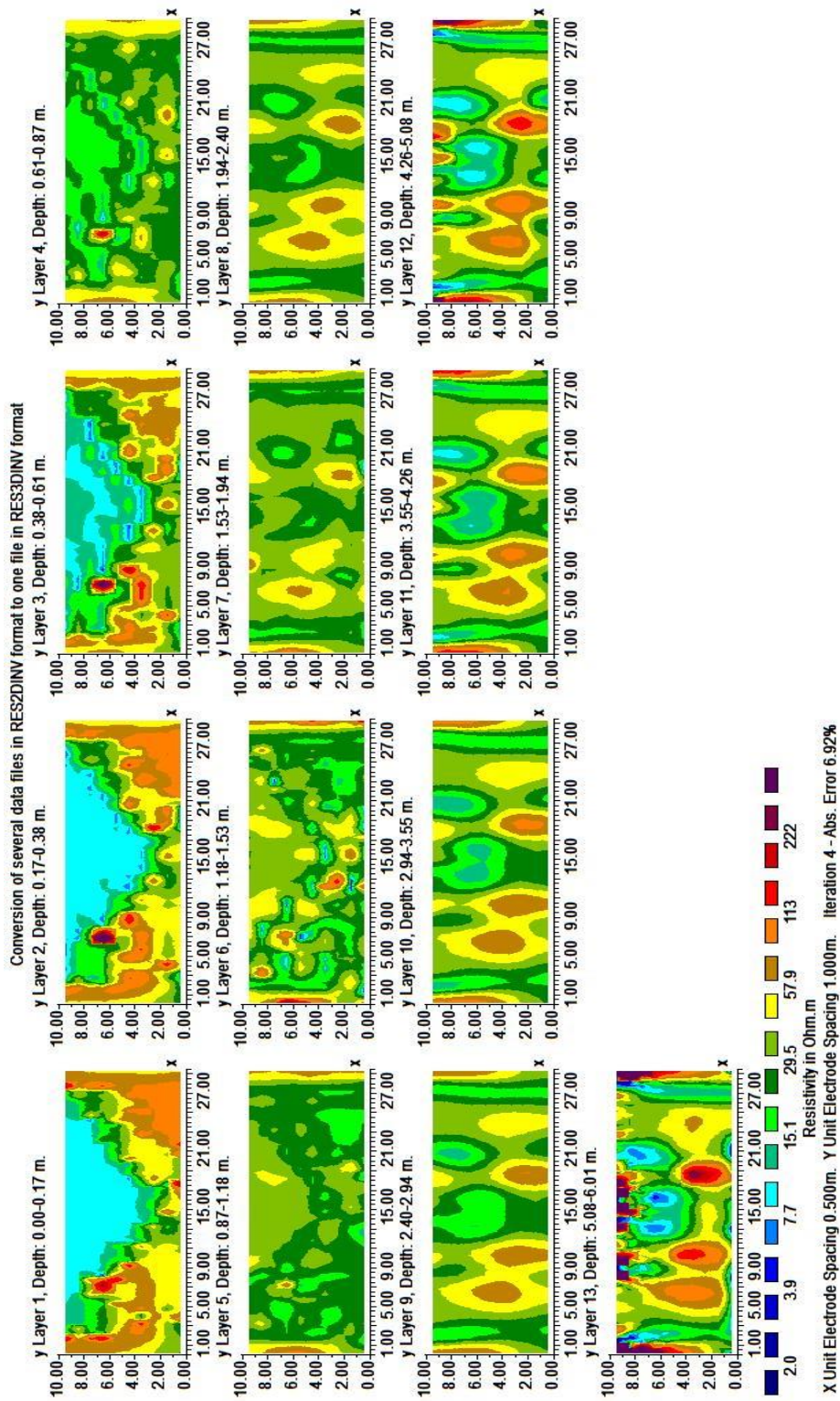


Figure 9. Three-dimensional visualization of ERT data collected as parallel profiles.

What you should do?

- Collect the data
- Send it to us

What do we do?

- Process and interpret the data
- Provide GIS/CAD files for use in your site map system (including SHP, KMZ, and DXF files).
- Create 2D and 3D maps for you.
- Provide written reports for you to submit to your client
- Reports and maps can be provided electronically or printed or both - YOUR CHOICE!

We can also provide training of “Basic theory and applications” and “Basics of data processing” for both:

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