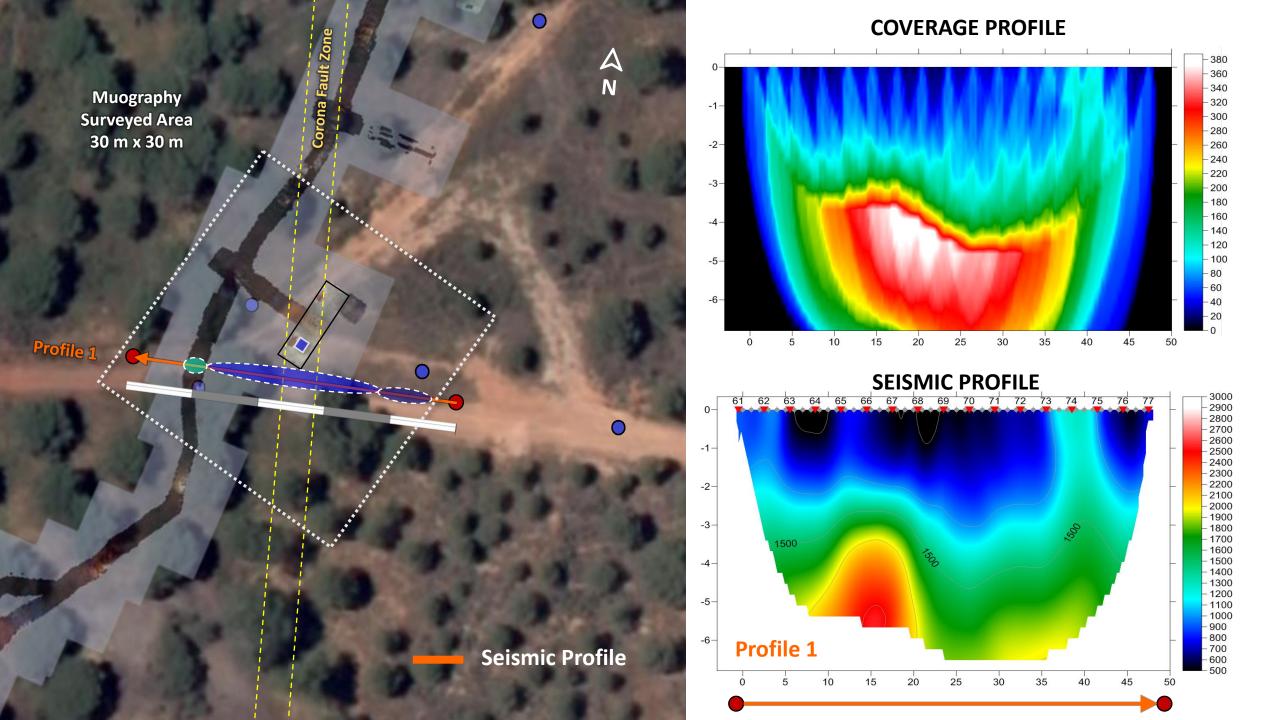
## GROUND SURVEY ANALYSIS

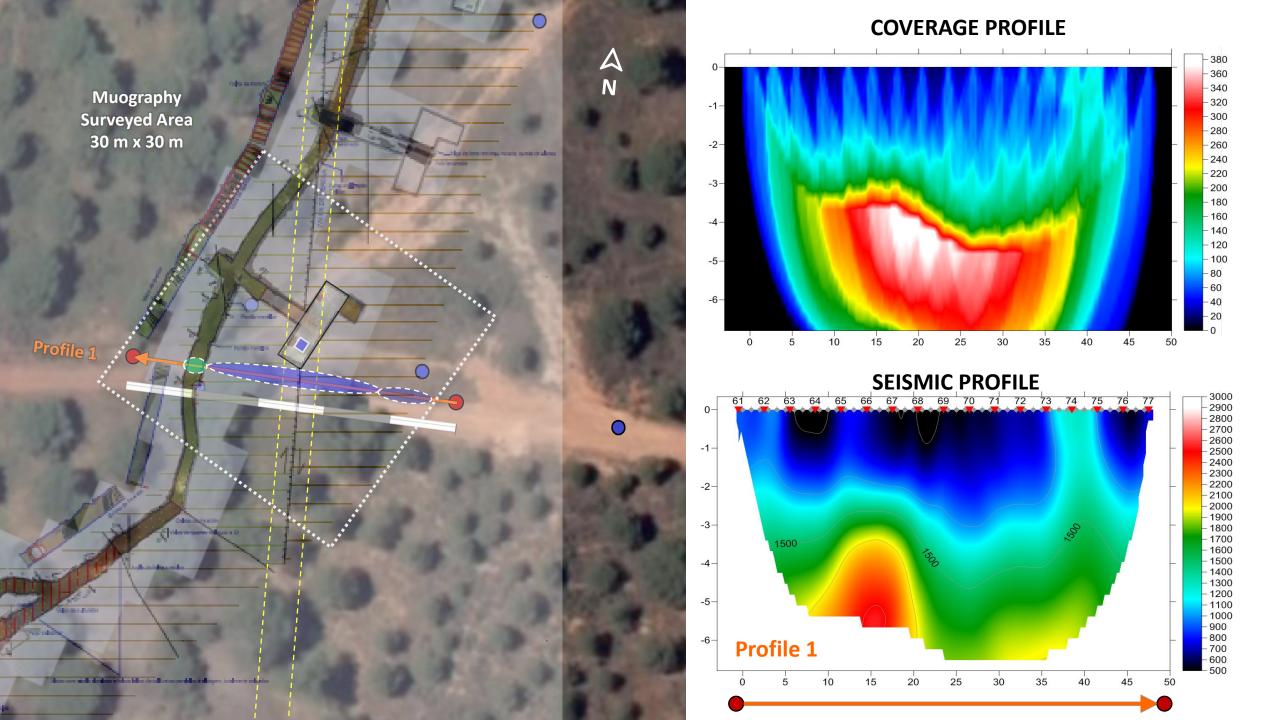
## SEISMIC REFRACTION

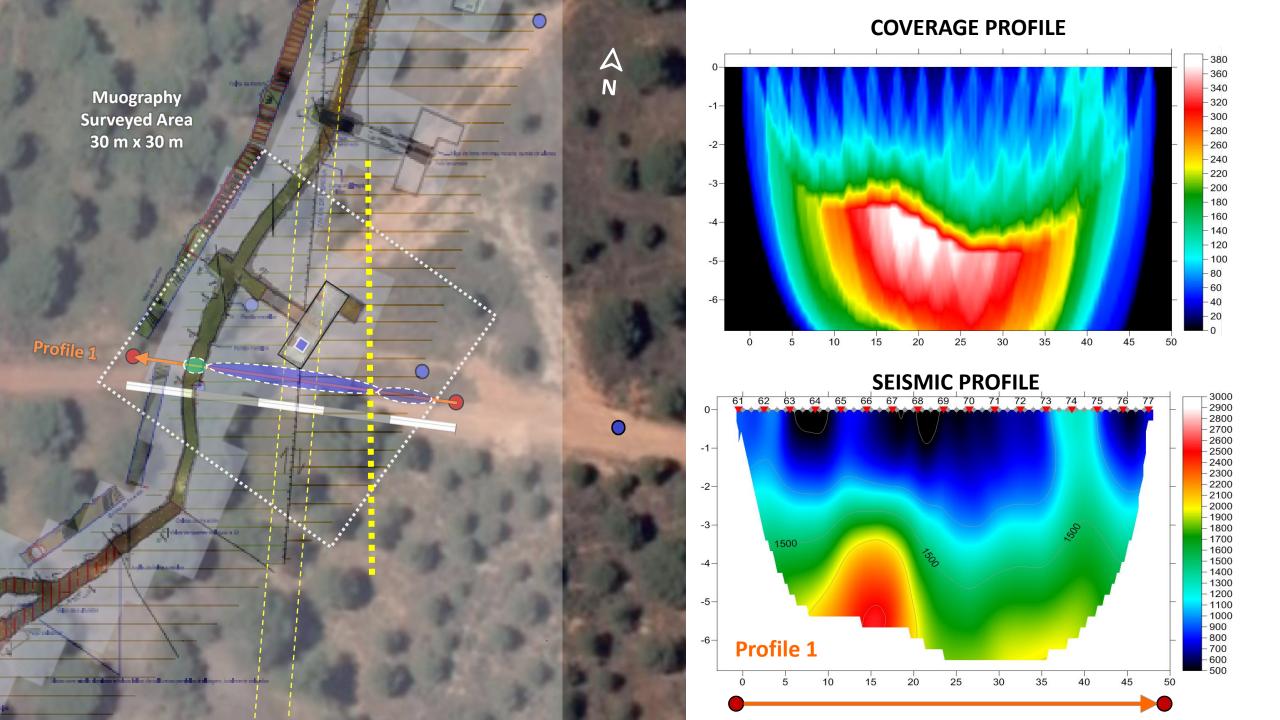
Geophones detect the vibration waves induced on the ground with hammer strokes and measure the propagation speed of these waves through the ground. The data is displayed in velocity profiles.

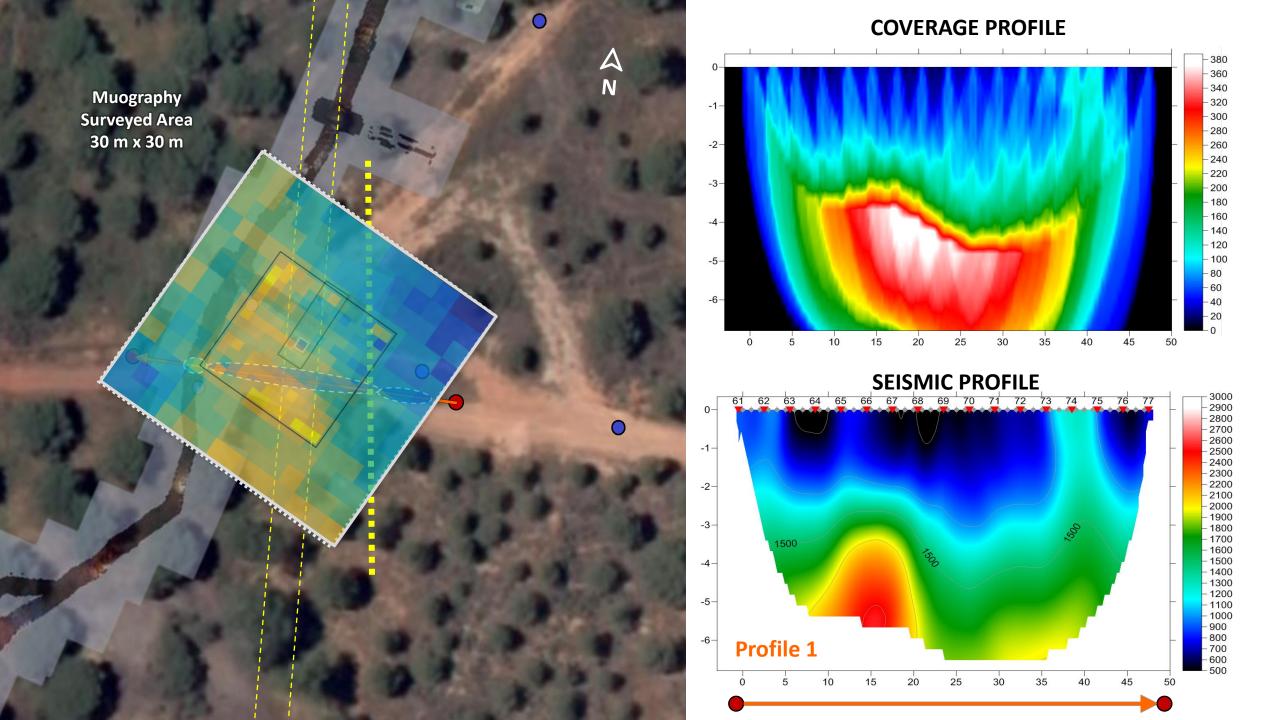
#### **VELOCITY PROFILES** 80 81 82 8384 85 86 87 88 89 - 2800 - 2700 - 2600 Muography **Surveyed Area** - 2500 2400 30 m x 30 m -2-- 2300 - 2200 2100 - 2000 1900 - 1800 - 1700 1600 1500 - 1400 - 1300 1200 - 1100 - 1000 900 -800 **Profile 2** - 700 -600 -500 **Profile 1** 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 - 2900 - 2800 2700 2600 2500 2400 -2300 - 2200 2100 2000 1900 1800 1700 1500 1600 1500 1400 1300 1200 1100 1000 900 800 **Profile 1** - 700 **Seismic Profiles** - 600 - 500

#### **VELOCITY PROFILES** 80 81 82 8384 85 86 87 88 89 - 2800 - 2700 - 2600 Muography **Surveyed Area** - 2500 2400 30 m x 30 m -2-- 2300 - 2200 2100 - 2000 1900 - 1800 - 1700 1600 1500 - 1400 - 1300 1200 - 1100 - 1000 900 -800 **Profile 2** - 700 -600 -500 **Profile 1** 50 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 - 2900 - 2800 -2700 2600 2500 2400 -2300 - 2200 2100 2000 1900 1800 1700 1500 1600 1500 1400 1300 1200 1100 1000 900 800 **Profile 1** - 700 **Seismic Profiles** - 600 - 500





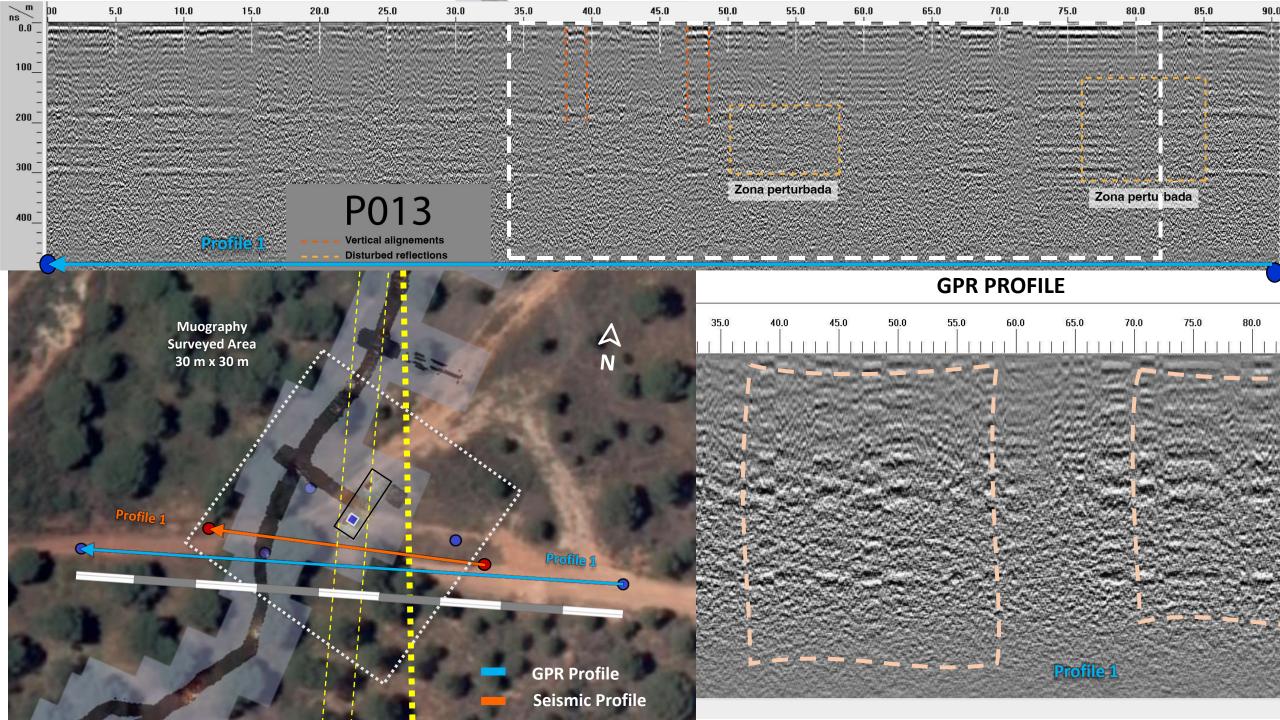


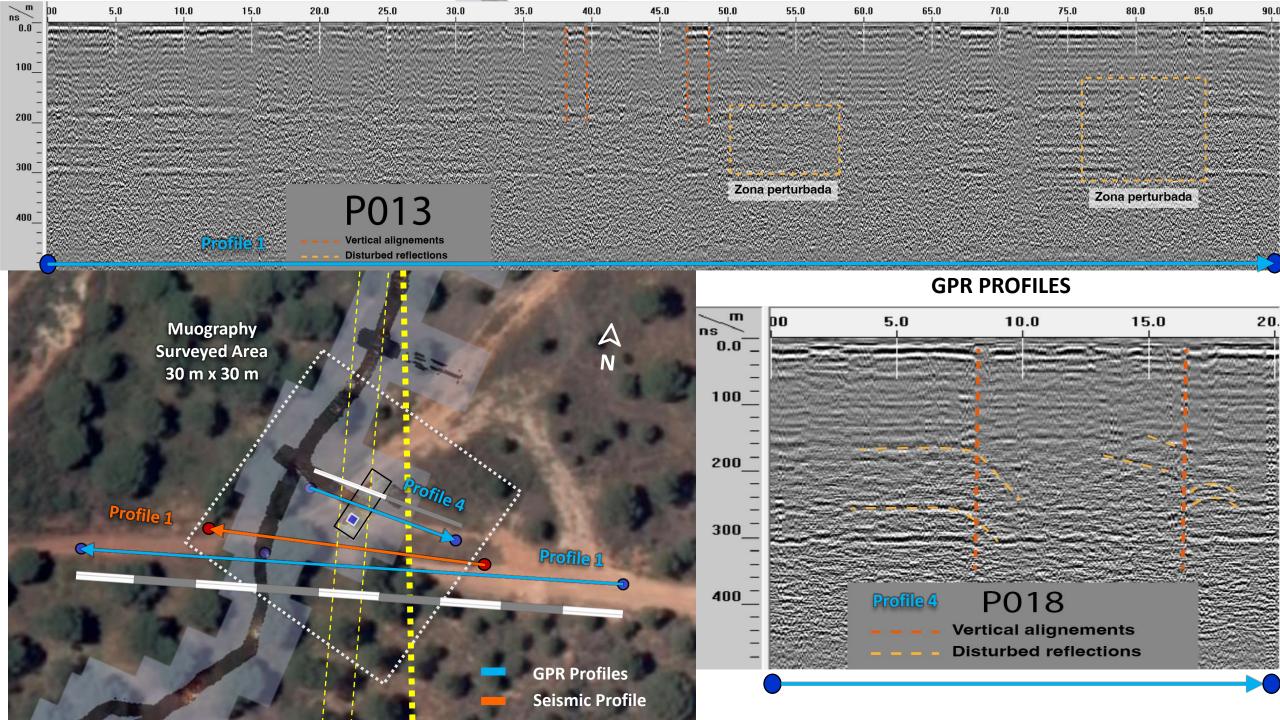


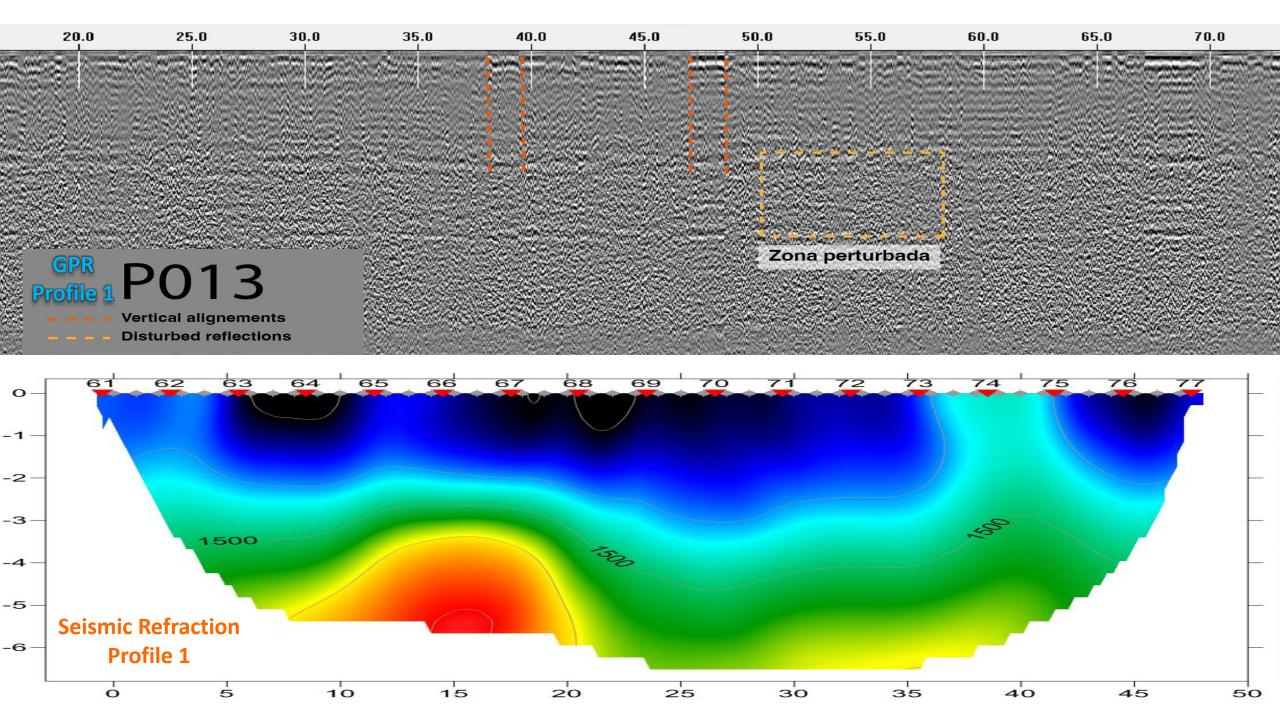
# GROUND PENETRATING RADAR (GPR)

The GPR antenna emits electromagnetic pulses through the ground and measures the refracted waves caused by differences in the dielectric constant of the materials. The data is displayed in GPR profiles.









## **EXTRA**

Mine Section – Density Profile

### **Mine Section - Density Profile**

