

# Archaeology

## Large Scale Geophysical Survey of "Le Pozze" Archaeological Site

### The Project

**Geostudi Astier of Livorno, Italy was contacted by the University of Padova and the National Institute of Oceanography & Geophysics to conduct a large scale archaeological investigation. They were interested in surveying the "Le Pozze" site of Lonato, which is five kilometers from a similar and well known Roman villa ruin in Desenzano, Italy.**



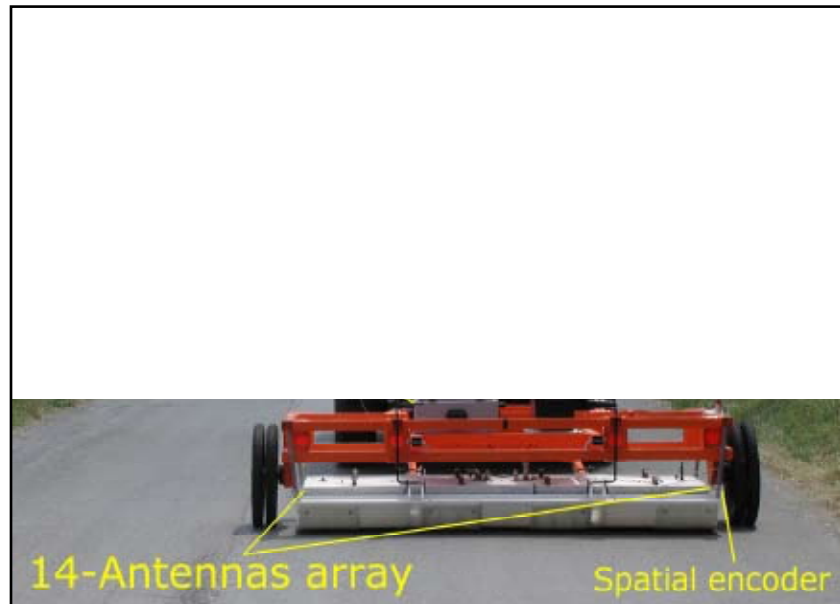
### Project Description

The overall goal was to collect 3D data in order to aid with feature identification and interpretation. With this information, they could determine if subsurface structures, similar to that of the villa in Desenzano, also existed at the archaeological site of Le Pozze.

Geostudi Astier utilized GSSI's TerraVision for this research. TerraVision is a large GPR system that can be pulled by any vehicle or ATV. This GPR equipment is the most accurate available because it uses a 14-antenna array and GPS to acquire data on a large scale.



To complete this project, the team surveyed 490 kilometers in 12 hours and collected over 20 GB of data.



Courtesy:

E. Finzi of Dip. di Geologia, Paleontologia e Geosica - Università di Padova,  
R.G. Francese of Istituto Nazionale di Oceanografia e di Geofisica Sperimentale Trieste  
G. Morelli and S.Cerella of Geostudi Astier – Livorno, Italy



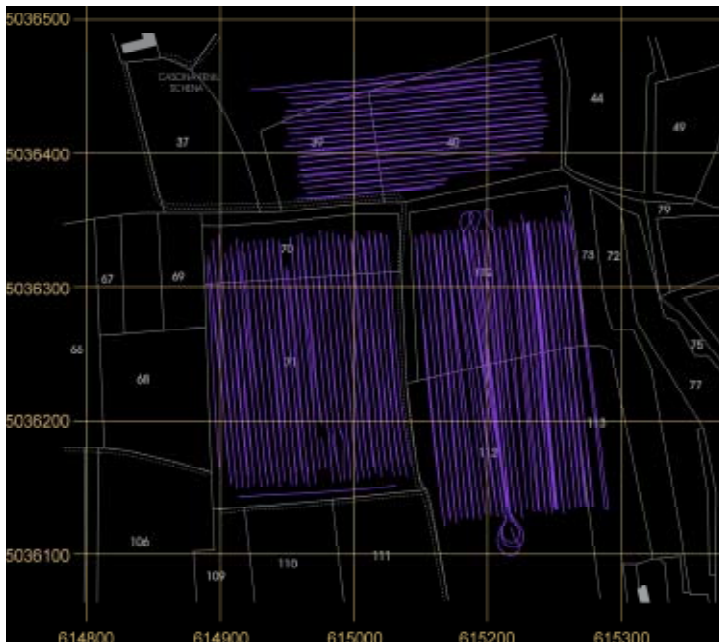
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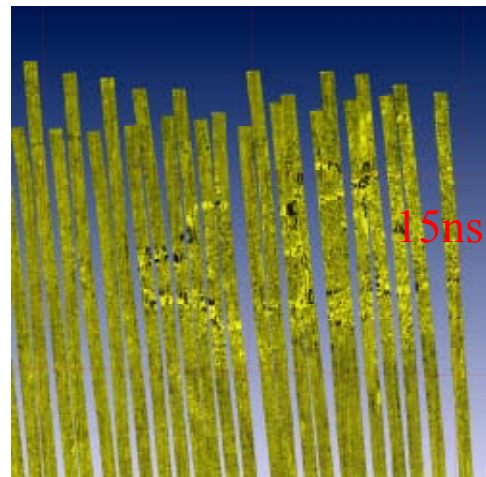
## Outcome

The TerraVision data returned images that clearly show subsurface structures at this site. The outlines of the structures also clearly follow the same shape of the Roman villa foundation found in Desenzano. Buried wall remains and foundations of minor features were also found.

The entire team was happy with the accuracy of the TerraVision equipment and the graphic interpretation of what was beneath the “Le Pozze” site. It proved that there was a settlement at this location and could be compared historically to another that was close by, which would further aid archaeologists in their research.

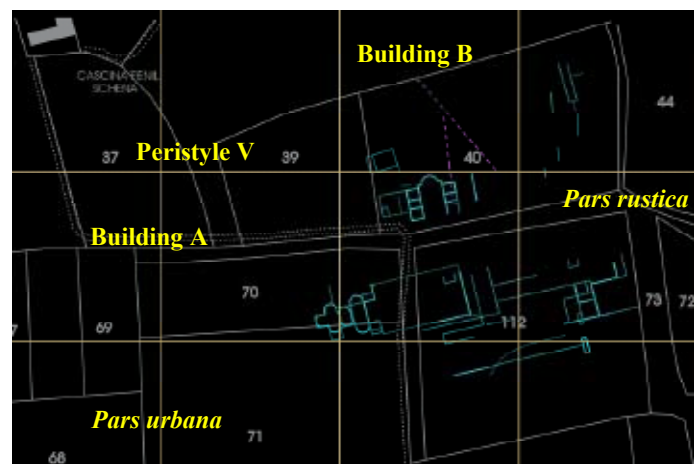


Plan of survey lines



Data

General interpretation and layout of the Roman settlement



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