

## Geographic Information Systems Applied in Archaeological Sites

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## Summary

During the last years we developed a few applications of GIS in archaeological sites. We believe that GIS environments allow to visualize data from excavations and all the related information in a perspective way which is unknown and unusual to archaeologists. Nevertheless they seem to understand now the help that they can achieve from such systems. Today we will present an application in the archaeological site of Messene in Greece.



## Why using GIS in Archaeological sites

### What do archaeologists need?

Position determination, coordination  
**What found in a certain place**

Topology determination  
**Where found a characteristic**

Phenomena determination  
**What are the changes in a characteristic**

Time determination

## Why using GIS in Archaeological sites

Serving the special needs of many different users  
Considerable reduction of multiple storing data  
Unified specifications for gathering/storing data  
Continuous observing and updating of phenomena  
Providing safety for managing/storing data  
Easier and better decision making

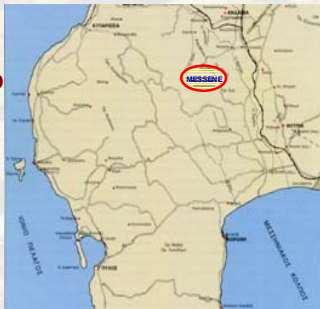
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## Position of the site


The ancient city of Messene was founded by Epaminondas in 369 BC.

Homers mentions the site as "makar pedion" which means "fruitful valley".

Located at the southwest part of Peloponnesos.



## Urban Planning system: Hippodamian



Information for the city:

- Pafsanias (155-160) AD
- 1<sup>st</sup> Excavation: French Mission 1828
- 2<sup>nd</sup> Excavation: Archaeological school, Th. Sofoulis, 1859
- 3<sup>rd</sup> Excavation: From 1909 up to 1925, G. Oikonomou
- Excavations from 1957 up to 1979.
- Excavations during the last years, G. Themelis

