THE CHOIROKOITIA CASE STUDY

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PROTHEGO Project
Work Package 6
Local scale investigation and advanced modeling in selected Test Sites

UNESCO World Heritage Sites of Europe affected by Geo Hazards
Satellite monitoring future challenges - The PROTHEGO project contribute
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http://www.prothego.eu/

What can you see?
What you can see with PROTHEGO

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Conclusions:

- PROTHEGO’s locale scale monitoring in Choirokoitia provides an example of the techniques that can be used to detect and analyze deformation phenomena for monitoring and predicting geo-hazards using field survey techniques to measure and document the extent of damage of the natural hazard on the cultural heritage site.
- The geodetic techniques can be used in combination with UAVs for documentation purposes and 3D modeling comparison.
- The aerial imagery obtained from the UAVs was imported into Structure in Motion software to create rapid and automated generation of a point cloud model and 3D mesh model in order to document and monitor the Choirokoitia site for geo-hazards.
- The ground based geotechnical monitoring can be compared and validated with InSAR data to evaluate cultural heritage sites deformation trend and to understand its behaviour over the last two decades.