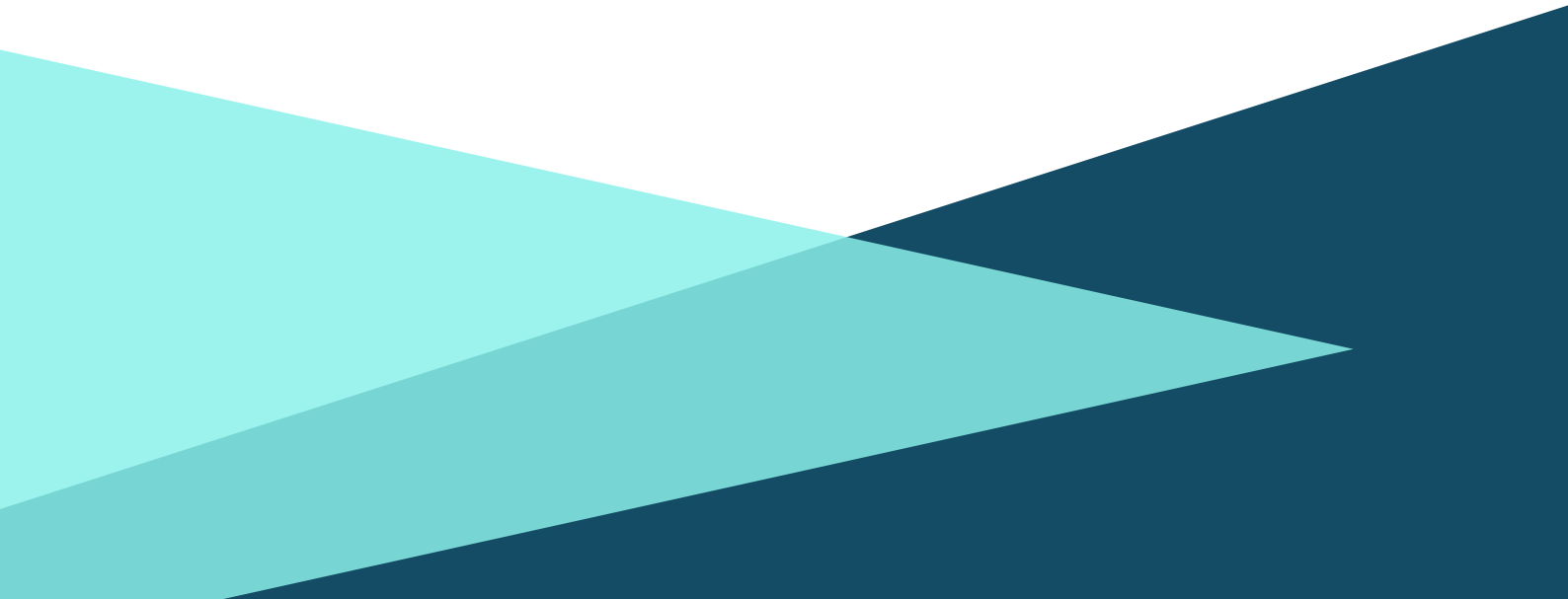




geo-HERITAGE

Cultural Heritage Monitoring Platform



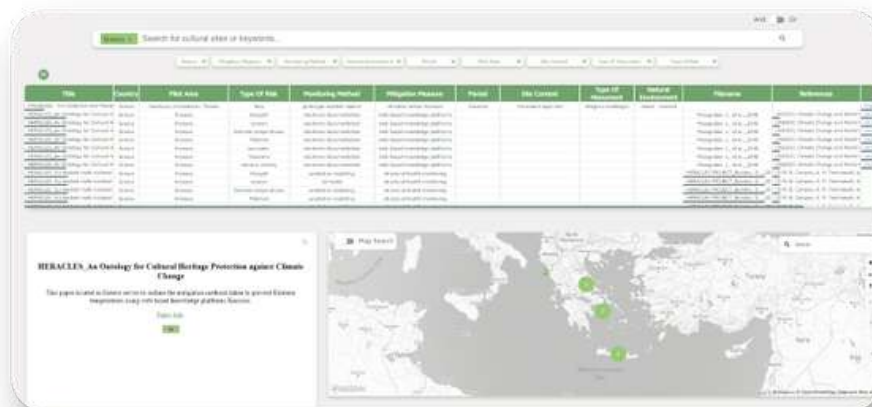


Ancient Megalopolis archaeological site (Tripadvisor, 2026).

TWO COMPONENTS | ONE PLATFORM

The solution encompasses two distinct components into one Cultural Heritage Monitoring Platform.

Knowledge Library



Data Visualisation



KNOWLEDGE MADE SEARCHABLE

- Presents data in tabular format resembling a traditional database view.
- Multi-keyword and spatial search capabilities for CH-related documents.
- Allows users to interact with and customize data efficiently with the table management and map tool for direct location-based search.
- Includes a mild data representation with the map tool for simplicity and added clarity.

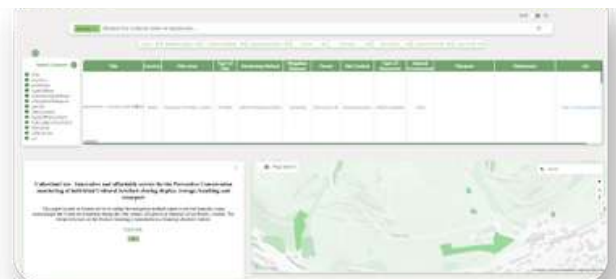
Database View



Keyword-based Search



Tailored Table of Parameters
for Each Dataset



VISUALISATION COMPONENT: SEE HERITAGE IN 3D CONTEXT

- Presents geospatial data in a 2D or 3D virtual Earth geographical context.
- Allows user to view compounding geospatial data with overlap and opacity.
- Includes mild data management tools and legend representing each feature.
- Allows the user to accurately visualise given structures using point-clouds, three-dimensional models and georeferenced layers.



Enhancing spatial understanding through a user-friendly visualisation

Criterion	Static CH database	Standalone 3D viewer	geo-HERITAGE
Tabular database-style view	Yes	No	Yes
Multi-keyword search for CH-related documents	Partially	No	Yes
Spatial search capability	No	Partially (manually)	Yes
Table management + map tool	Partially (table management)	Partially (map tool)	Yes
Map-based data representation	Partially (location information)	Yes	Yes
3D virtual Earth context	No	Yes	Yes
Overlapping geospatial layers	No	Yes	Yes
Opacity sliders / mild data management	No	Partially	Yes
Point-cloud and georeferenced layer visualisation	No	Yes	Yes
Integrated support for CH monitoring workflows	Partially	Partially	Yes



Aegina Kolonna (<https://www.archaeology.wiki/blog/2017/01/13/mapping-aegina-kolonna/>, 2017)