geo-HERITAGE

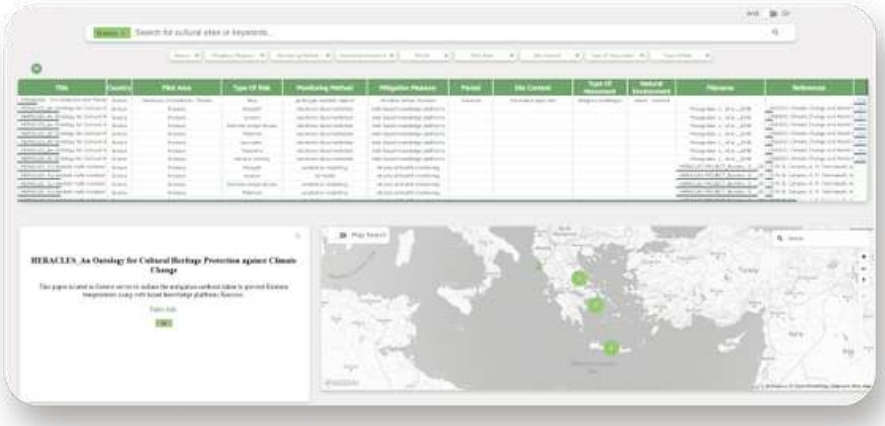
Cultural Heritage Monitoring Platform

Ancient Megalopolis archaeological site (Tripadvisor, 2026).

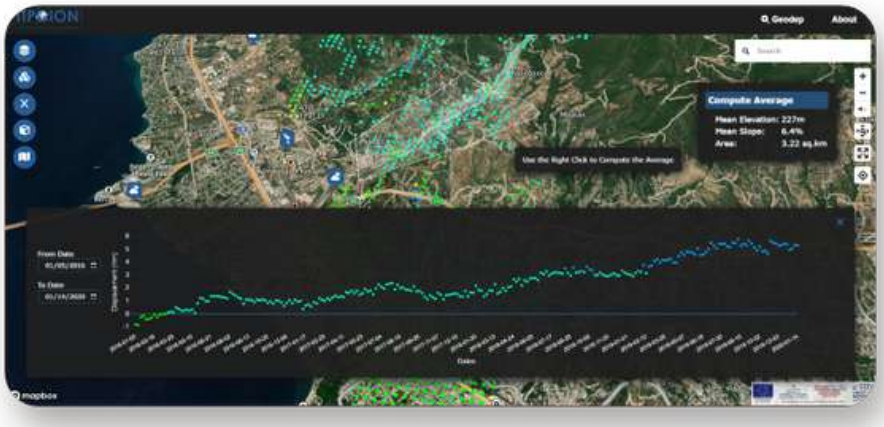
Cultural Heritage Monitoring Platform

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

Knowledge

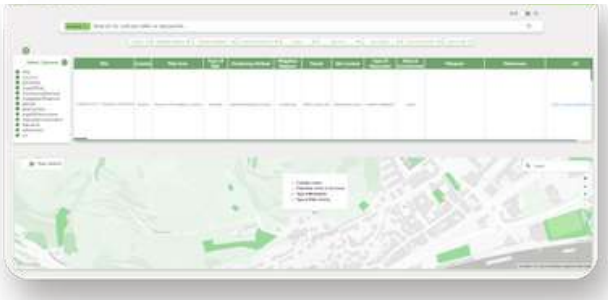


Visualisation



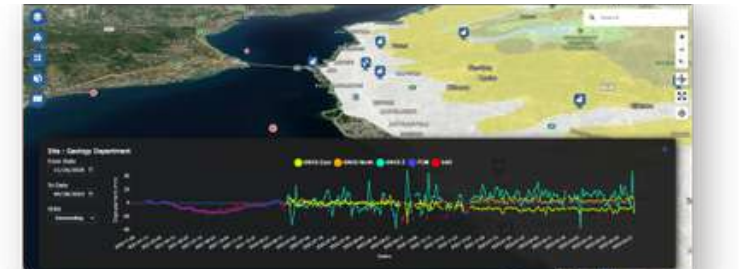
Knowledge Component

- 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.
- Includes a mild data representation with the map tool for simplicity and added clarity.



Visualisation Component

- Presents geospatial data in a 3D virtual Earth geographical context.
- Allows user to view compounding geospatial data with overlap.
- Includes mild data management tools such as opacity sliders for data overlapping.
- Allows the user to accurately represent given structures using point-clouds and georeferenced layers.
- Enhancing spatial understanding through a user-friendly visualisation.



Criterion	Static CH database	Standalone 3D viewer	geo-HERITAGE
Tabular database-style view	✓	–	✓
Multi-keyword search for CH-related documents	◐	–	✓
Spatial search capability	–	◐	✓
Table management + map tool	◐	◐	✓
Map-based mild data representation	◐	✓	✓
3D virtual Earth context	–	✓	✓
Overlapping geospatial layers	–	✓	✓
Opacity sliders / mild data management	–	◐	✓
Point-cloud and georeferenced layer visualisation	–	✓	✓
Integrated support for CH monitoring workflows	◐	◐	✓

✓ = full support | ◐ = partial support | – = not supported

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