



Geoportal Technology: A Customizable Framework for Managing and Publishing Georeferenced Research Objects

Francesco Mangiacrapa¹, Gian Luca Vannini¹, Paquale Pagano¹

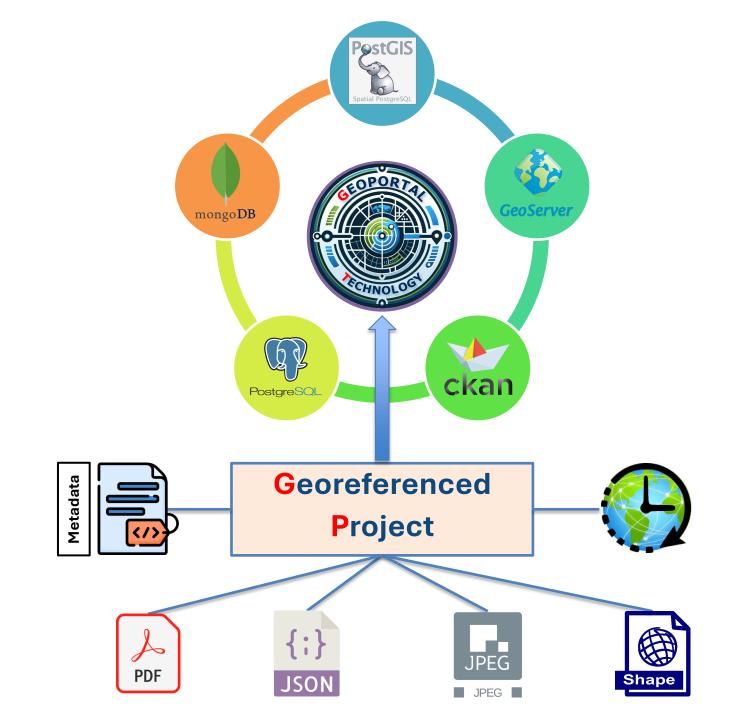








What is Geoportal Technology?





Core Features

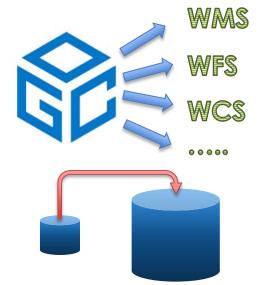


Custom Data Models:

Allows user communities to fully customize the data model.

Interoperability and Standards:

Adheres to international standards and scales for large dataset.





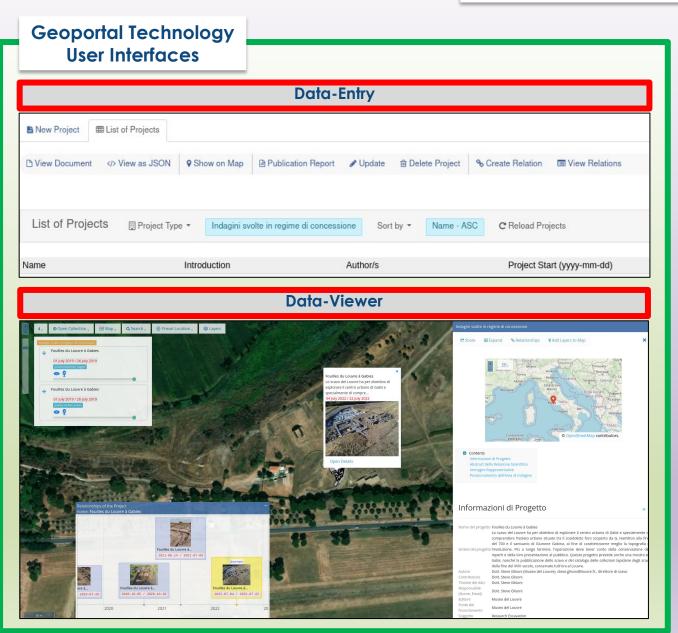
Matadata and Data Sharing:

Facilitates the organization and sharing of geospatial, temporal and multimedia data also with external systems via REST APIs.



Infrastructure and Interfaces

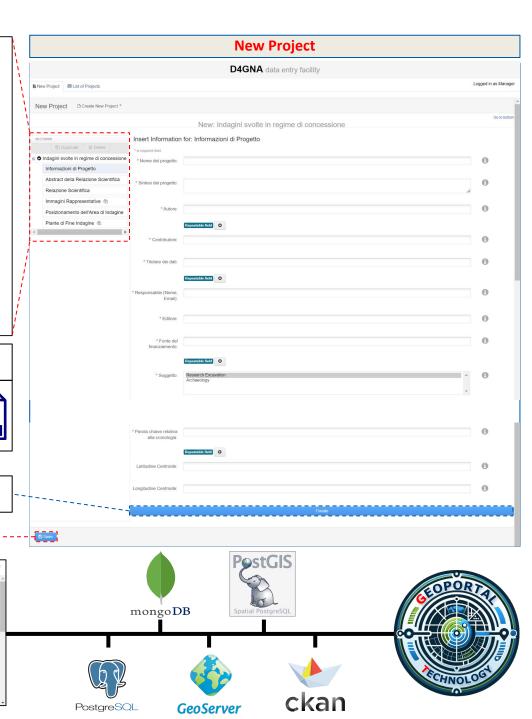






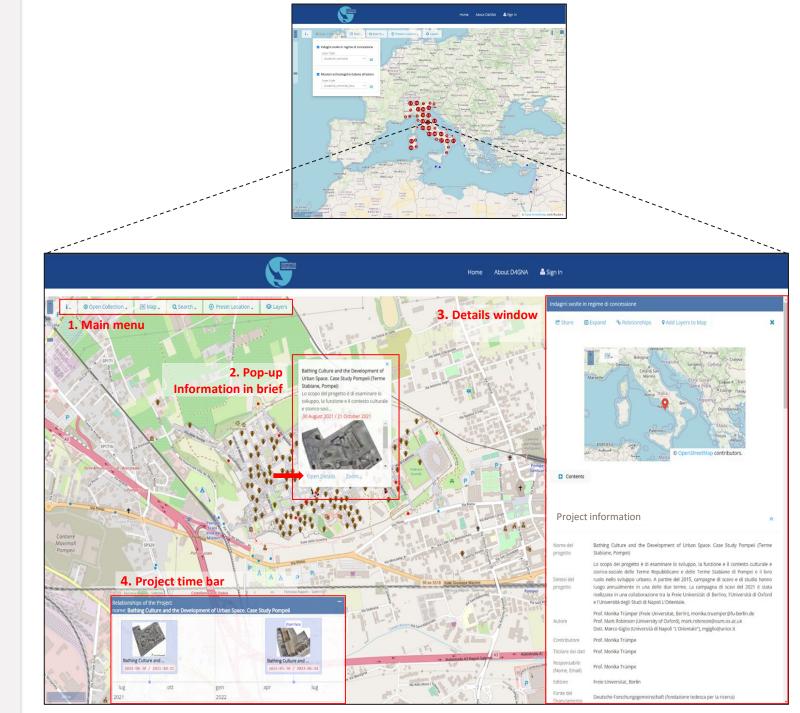
Data-Entry

SECTIONS Project information 2. Abstracts of the scientific report Scientific report Representative images Placement of the survey Area Planimetry of end of survey Resources Formal checking of fields Publication Report for Project ID: 64623e43d7fb4a4633022748 Last invoked step: APPROVE-SUBMITTED delle Terme Repubblicane e delle Terme Stabiane di Pompei e il loro ruolo nello sviluppo urbano. A partire del 2015, campagne di scavo e di studio hanno luogo annualmente in una delle due terme. La campagna di scavi del 2022 è stata realizzata in una collaborazione tra la Freie Universitat di Berlino e Prof. Monika Trümper (monika truemper@fu-berlin.de); Dr. Marco Giglio (mgiglio@unior.it)





Data-Viewer





Case Study:

Dataset for the Italian National Geoportal for Archaeology

D4GNA



https://gna.cultura.gov.it/

https://gna.d4science.org/



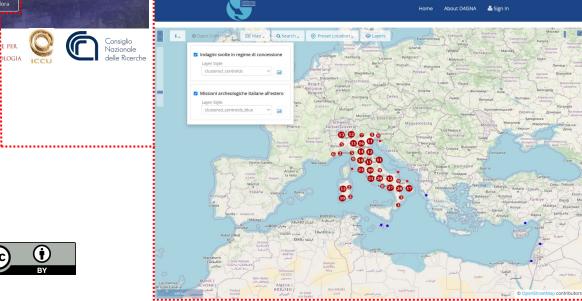






Data-Entry - Restricted Area

Data-Viewer - Public Area





Case Study: Dataset for the Italian National Geoportal for

Archaeology

D4GNA





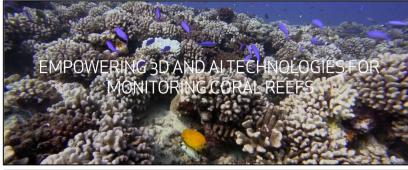


Next steps and Other Use Cases

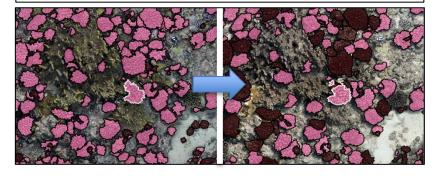
Reef Archive Lab

GeoRepository designed to archive and share large-scale imaging studies of coral reefs, in collaboration with **TagLab**, the Al-based annotation tool, to label and track the temporal evolution of coral colonies.





Multi-temporal comparison



Open to

Environmental Monitoring
Agronomy
Geology



Conclusion

Geoportal Technology:

- Simple management and publication of geospatial research data
- Custom Data Models
- Emphasis on interoperability and scalability.
- Facilitates the organization and sharing of geospatial, temporal and multimedia data across different domains.
- Adheres to international standards such as OGC's Web Map Service (WMS) and Web Feature Service (WFS).









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Francesco Mangiacrapa (<u>francesco.mangiagrapa@isti.cnr.it</u>)

Gian Luca Vannini (gianluca.vannini@isti.cnr.it)



Paquale Pagano (pasquale.pagano@isti.cnr.it)





