Spacialist – A Virtual Research Environment for the Spatial Humanities

Matthias Lang¹ (10), Philippe Kluge¹, Colin Emonds¹ & Vinzenz Rosenkranz² (10)

¹ Bonn Center for Digital Humanities, Univ. of Bonn, Heussallee 18-24, 53113 Bonn, Germany ² eScience-Center, Univ. of Tübingen, Keplerstr. 2, 72074 Tübingen, Germany

Watch the Video 🕑

Keywords: Virtual Research Environment, database, open-source, GIS, thesaurus

Many archaeological research projects generate data and tools that are abandoned after the project funding ends. Moreover, research data handling and the deployed tools are often highly specific for single projects. This practice leads to solutions that are incompatible with other tools, projects and infrastructures, and they often do not rely on accepted standards.

To close this gap, the project Spacialist was tasked to create a modular virtual research environment that offers an integrated, web-based user interface to record, browse, analyze, and visualize all spatial, graphical, textual and statistical data from archaeological or cultural heritage research projects. To address the highly heterogeneous requirements of such projects, Spacialist is developed as a software platform that is instantiated, customized and deployed for each research project. Spacialist uses project-specific controlled vocabularies based on the SKOS-XML standard, thus facilitating data analysis and interoperability with other projects and infrastructures.

The project is now beyond its development phase and is used by a number of projects in productive operation. In our presentation we will first present the functionalities and architecture of the software and then discuss in detail the experiences made so far. Special attention will be paid to the problem of sustainable further development and maintenance of Spacialist.

ORCID[®]

Matthias Lang D https://orcid.org/0000-0003-3047-2722 Vinzenz Rosenkranz D https://orcid.org/0000-0002-5387-425X

REFERENCES

- Lang, M., Derntl, M., Glissmann, B., Rosenkranz, V., & Seidensticker, D. (2020). Spacialist Virtual Research Environment for the Spatial Humanities. In V. Heuveline, F. Gebhart, F., & N. Mohammadianbisheh (Eds.), *E-Science-Tage 2019: Data to Knowledge* (pp. 242–243). Heidelberg: heiBOOKS. https://books.ub.uniheidelberg.de/heibooks/catalog/book/598
- Lang, M., Derntl, M., Glissmann, B., Rosenkranz, V., Seidensticker, D., & Kirschenheuter, D. (2020) Spacialist A Virtual Research Environment for the Spatial Humanities. In J. B. Glover, J. Moss, & D. Rissolo (Eds.), Digital Archaeologies, Material Worlds (Past and Present). Proceedings of the 45rd Annual Conference on Computer Applications and Quantitative Methods in Archaeology (pp. 181–192). Heidelberg: heiBOOKS. https://publikationen.uni-tuebingen.de/xmlui/handle/10900/101220

Lang, M., Kluge, P., Emonds, C., & Rosenkranz, V. (2022). Spacialist – A Virtual Research Environment for the Spatial Humanities. In A. W. Kandel, M. N. Haidle, & C. Sommer (Eds.), *Human Origins – Digital Future: An International Conference about the Future of Archaeological and Paleoanthropological Databases* (p. 65). Propylaeum, Heidelberg. DOI: https://doi.org/10.11588/propylaeum.882.c13454