

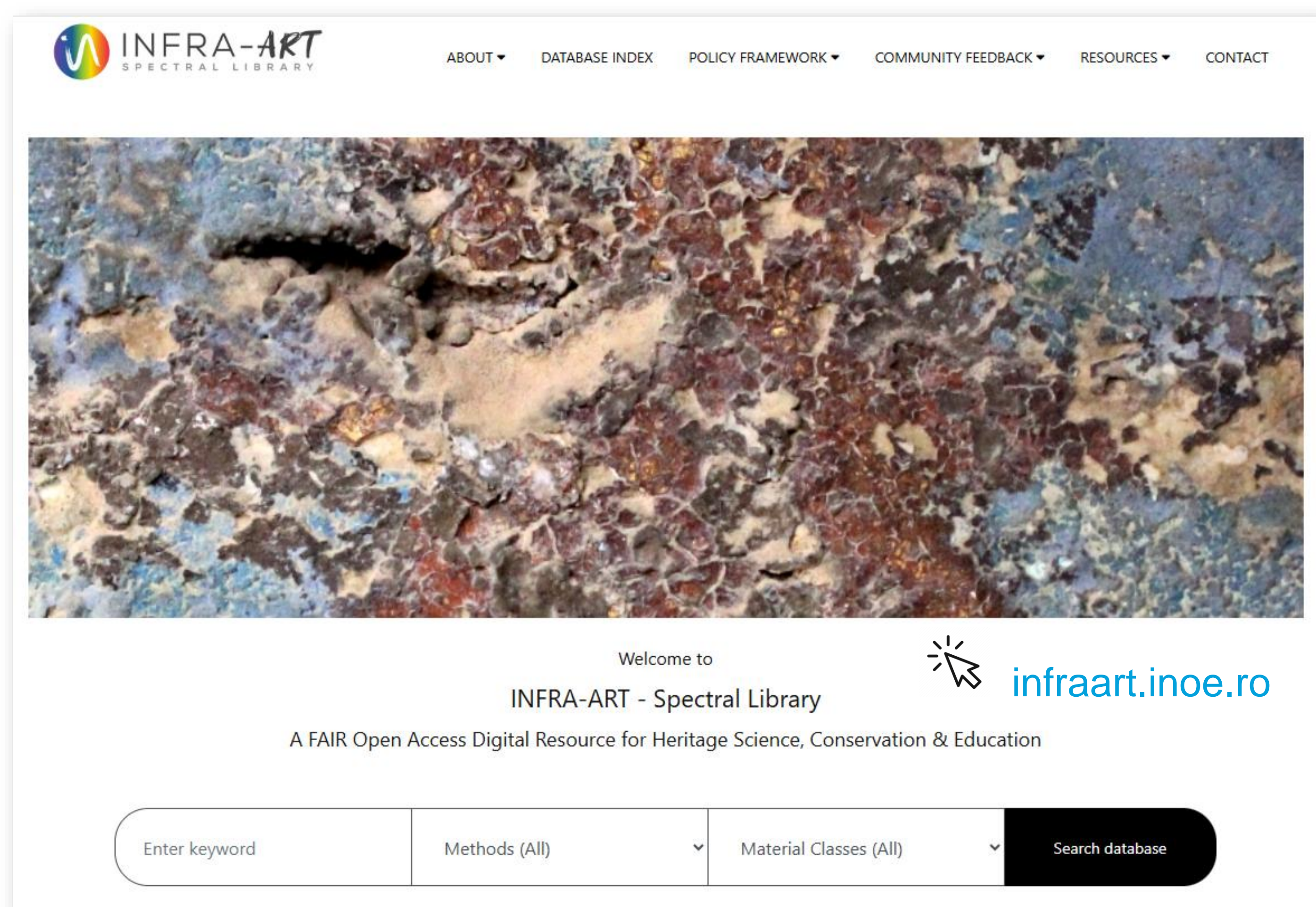
From FAIR Data to Educational Impact: A Digital Resource Advancing Heritage Science Research and Learning

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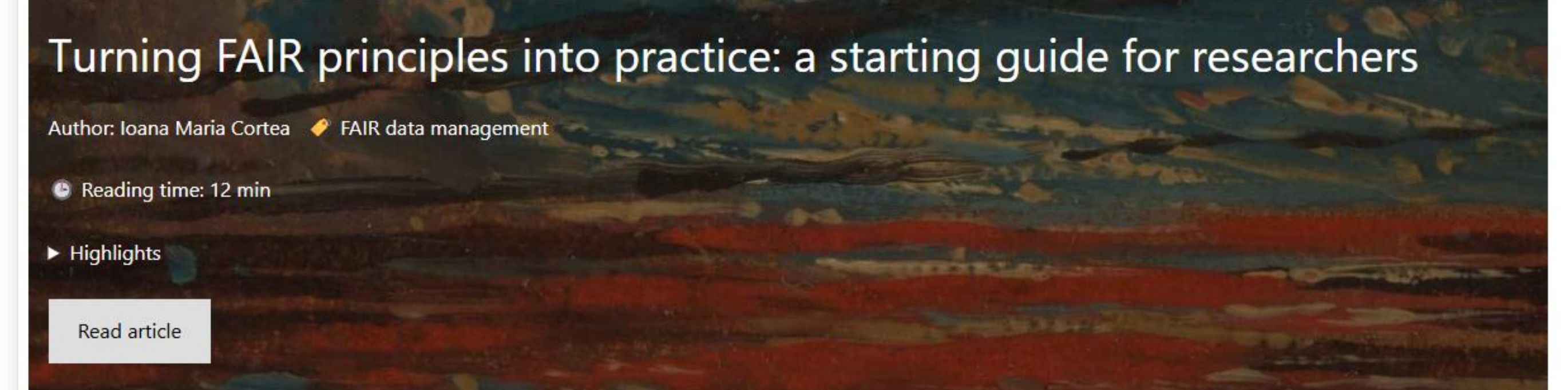
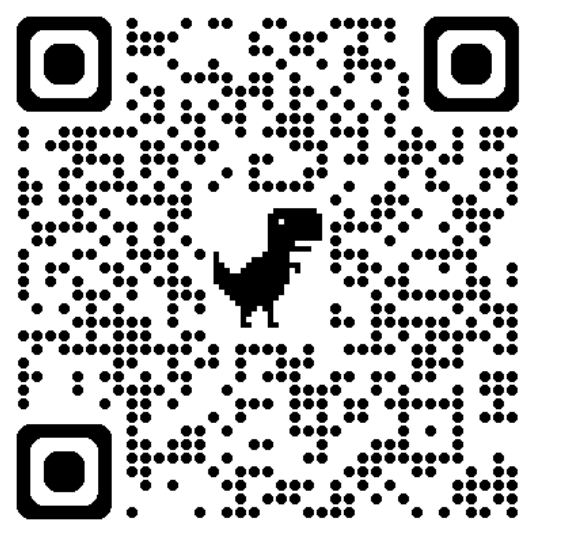
The INFRA-ART Spectral Library

The **INFRA-ART Spectral Library** is a **FAIR-aligned, open-access digital repository** designed to support research, education, and conservation in **heritage science**. Developed at the National Institute for Research and Development in Optoelectronics (Romania), the INFRA-ART database provides access to high-quality (multi)spectral datasets linked to a wide range of materials found in artworks and archaeological objects.



INFRA-ART BLOG

Connecting spectral research, FAIR best practices, and data policy in cultural heritage science



Keywords

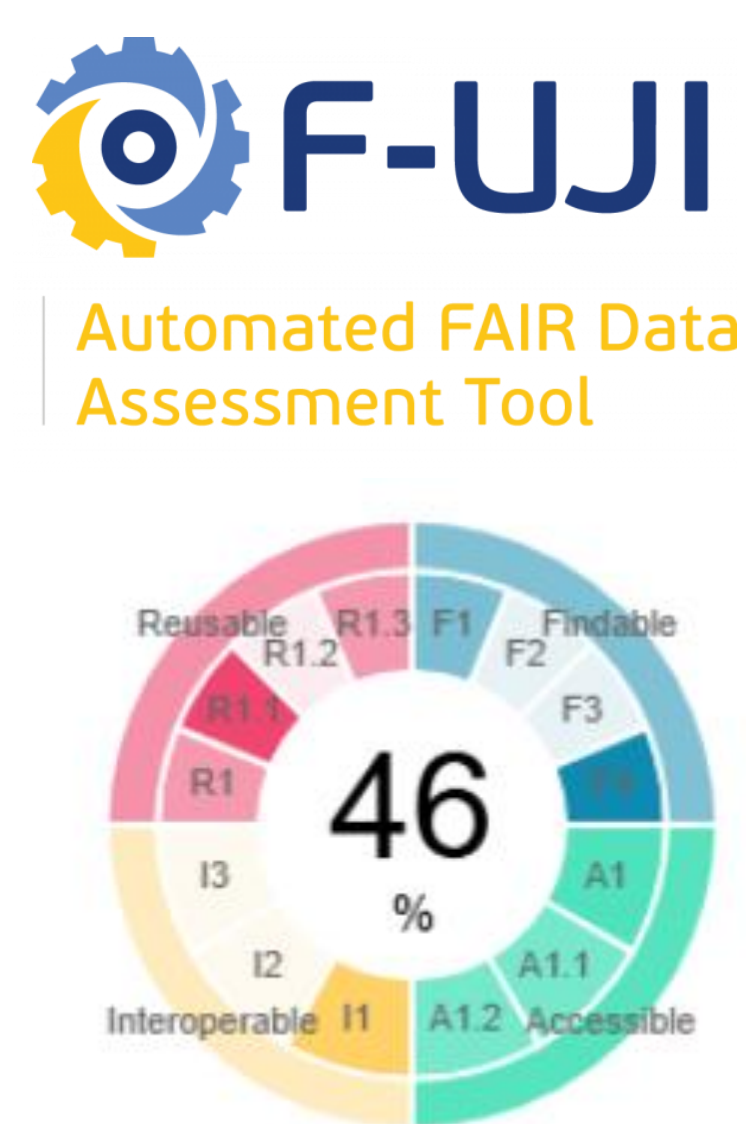
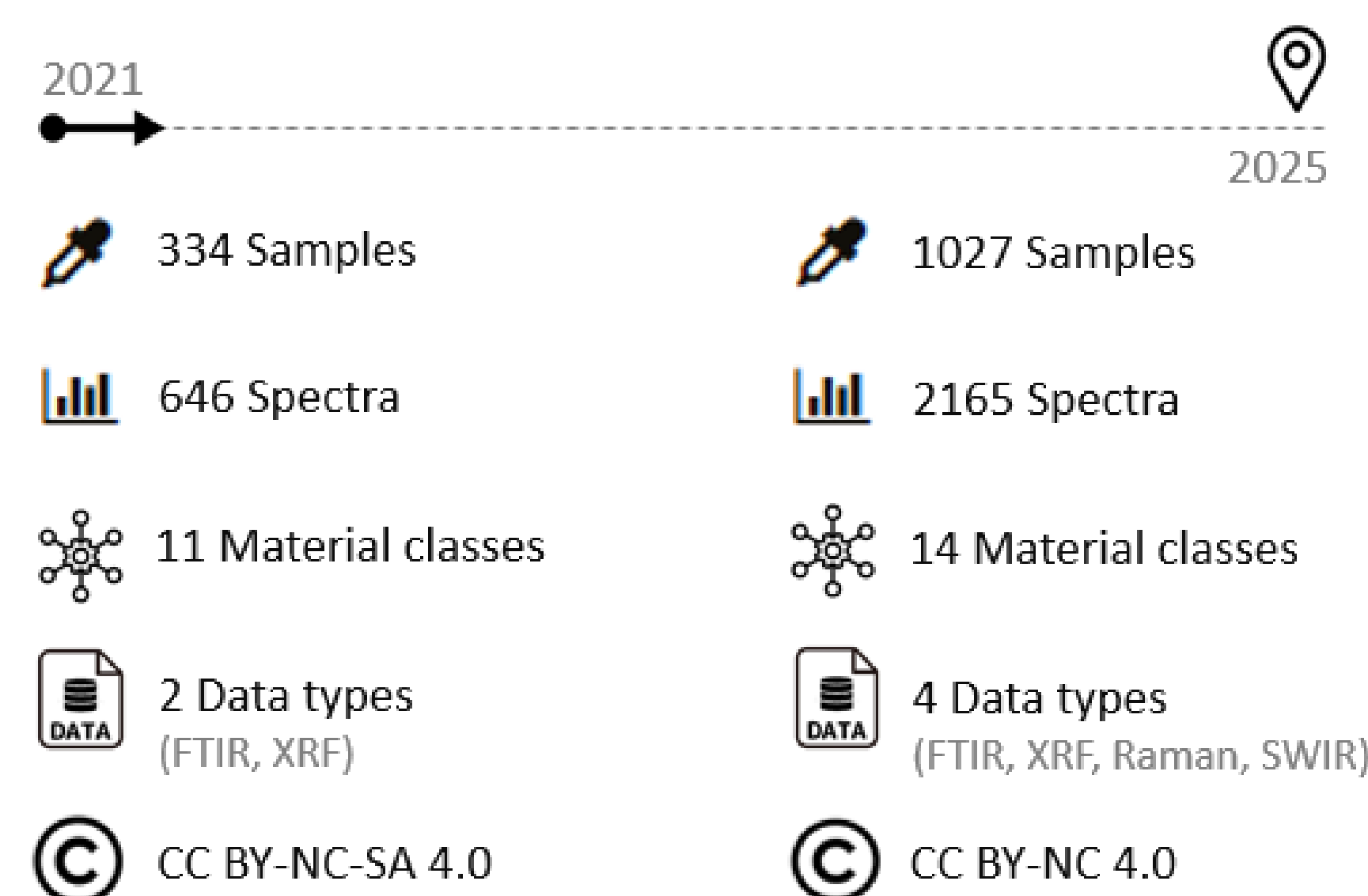


BLOG

Originally a standalone **data service**, the INFRA-ART Spectral Library is now **integrated with EOSC**, enhanced in FAIR maturity, and indexed in major international registries such as re3data, OpenDOAR, zenodo, and FAIRsharing. The INFRA-ART Spectral Library has also evolved into an **educational platform** that promotes open science practices and **hands-on learning**. As part of the OPEN-SciART project, the repository is now being enriched with **openly available educational content** designed to foster **digital and scientific literacy across interdisciplinary fields**. These include a growing series of blog posts, case studies, and tutorials connecting spectral research, **FAIR best practices**, and data policy in cultural heritage science.

Recent and upcoming updates

Ongoing developments include **database expansion** with new sample references and new data types, enhanced data analytics tools, **design and development of FAIR educational resources**, and **FAIRification** practices.

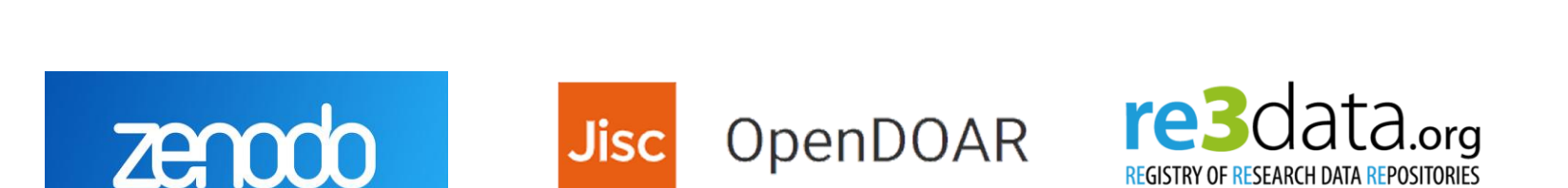


Contact and acknowledgments

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<https://www.linkedin.com/company/infra-art-spectral-library/>



References

1. INFRA-ART Spectral Library, <https://infraart.inoe.ro/>
2. Ioana Maria Cortea, Alecsandru Chiroșca, Laurențiu Marian Angheluță, George Seritan. 2023. INFRA-ART: An open access spectral library of art-related materials as a digital support tool for cultural heritage science. *ACM Journal on Computing and Cultural Heritage*, 16, 2 (June, 2023), 40. DOI: <https://doi.org/10.1145/3593427>.
3. OPEN-SciART - A Tailored-Made Open-Access Spectral Data Analytics Application for Heritage Science, Education, and Conservation (Research Projects for Young Independent Teams, PN-IV-P2-2.1-TE-2023-2019), <https://open-sciart.inoe.ro/>
4. FAIR-IMPACT support action: [Creating EOSC compliant interoperability policies based on EOSC Interoperability Framework \(IF\)](#).



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