



# Trans-National and National Access to the H2IOSC RIs Cluster Services

## **LIST OF SERVICES**

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October 2024

## E-RIHS.it for H2IOSC

### ATON: WebXR services for Heritage Science

ATON is an open-source framework to present and interact with 3D models and scenes on the web, primarily targeting Heritage Science communities. Its adaptive presentation layer allows interactive, liquid 3D visualization - ranging from mobile devices, museum kiosks, workstations, up to immersive XR devices - without any installation required for final users. The adoption of robust open-source ecosystems and international standards, alongside a REST API, maximize interoperability and integration with other platforms and H2IOSC services. The E-RIHS.it service offers public access to research institutes, laboratories, museums, experts and researchers, willing to rapidly integrate interactive 3D tools into their workflows. User-friendly interfaces, modular components and multi-user capabilities allow wide customizations for different use cases. Furthermore, a plug&play architecture provides an accelerator for development and deployment of cross-device and interoperable Web3D/WebXR applications or pilots.

CAT: 3D Presentation; Immersive Visualization; PWA; Data representation and Visualization; Data curation and Preservation; Data collection

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#### Demo Videos

- [Built-in tools](#)
- [Multiresolution 3D models](#)
- [Navigation tools](#)
- [Immersive VR \(WebXR\) and Multiresolution](#)
- [Mixed Reality presentation \(WebXR\)](#)
- [Plug&Play Apps](#)

**Max number of Users/User teams for the call: 3**

**Specific data policy on reuse:** The User/User team is required to share the data produced during the TNA/NA activities under an open license.

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## CLARIN-IT for H2IOSC

### EpiLexO Editor

EpiLexO is an interface for creating lexica for epigraphic languages conformant to Semantic Web principles linked to their testimonies (encoded in TEI-EpiDoc) and related bibliographies.

EpiLexO is a web-based platform designed for the creation, editing, and linking of lexical resources for ancient languages. It is based on a Service-Oriented Architecture exposing RESTful APIs. The platform facilitates historical linguists in encoding multilingual lexica, linking lexical data to inscriptions, bibliographies, and other external Linked Open Data resources. Its user-friendly interface supports collaborative editing and is particularly aimed at scholars in historical linguistics and digital humanities, providing essential tools for managing and interlinking lexical information and inscriptions.

CAT: Data representation & Visualization

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**Max number of Users/User teams for the call:** 2 (teams of max 5 collaborators each)

**Specific data policy on reuse:** The User/User team is responsible for the data redistribution policy. The User/User team is encouraged to share the data produced during the TNA/NA activities under an open license and, possibly, the deposit of said data on the repository

[ILC4CLARIN](#)

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## eScriptorium: a web platform for Handwritten Text Recognition (HTR)

eScriptorium is a web platform which integrates Handwritten Text Recognition (HTR) through kraken HTR engine and cooperative proofreading of automated transcriptions. Through the HTR United Project not only new performant HTR models are provided, but the entire process of image acquisition / recognition / HTR model refinement / proofreading / deposit of digital resources is open and replicable, in compliance to the principle of Open Science.

CAT: Data processing; HTR & Proof Reading

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**Max number of Users/User teams for the call:** 12

**Specific data policy on reuse:** The User/User team is responsible for the data redistribution policy. The User/User team is encouraged to share the data produced during the TNA/NA activities under an open license and, possibly, the deposit of said data on the repository

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## **DARIAH-IT for H2IOSC**

### **RAISE - Restore dAta Integration Suite**

RAISE is suite of tools and services for GLAM resources FAIRification, built as a modular and scalable workflow focused on data collection, mapping, modelling and visualization, enabling the creation of custom LODs integrating data on cultural heritage objects created and managed by Libraries, Archives and other Memory institutions with other information gathered by researchers. The suite is the result of the work started within the [RAISE project](#) and supported by different national and international research projects, including the Social Sciences and Humanities Open Cloud (SSHOC). RAISE comes with specialized modules to manage Back End (BE) and Front End (FE) FAIRification processes: the Data Management Tool Suite (RAISE-BE), the Semantic Data Ingestion Tool Suite and the Data Visualisation Tool Suite (RAISE-FE). The RAISE modular architecture, based on micro-services, can be adapted to the scientific needs of the users and integrated in various contexts and with different systems, promoting interoperability and long-term sustainability.

CAT: Data processing; Data curation and preservation; Data representation & visualization;  
Query and data extraction

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**Max number of Users/User teams for the call:** 3

**Specific data policy on reuse:** The User/User team is responsible for the data redistribution policy. The User/User team is recommended to use open licenses and depositing data in the DARIAH-IT repository to make it more accessible and reusable.

For any other specification, please see the [DMP - RAISE - Restore dAta Integration Suite](#)

**Providers:** CNR OVI | Operating Unit Florence

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## TIGRO - Tesoro Italiano delle Origini, gestore ricerche

TIGRO is a software for the lexicographic and linguistic analysis of textual corpora. Leveraging on the experience gained with GATTO, a reference tool in the field of lexicography of variants in antique Italian texts developed by OVI, TIGRO introduces also a set of procedures for FAIR principles implementation, providing a flexible, scalable and reusable solution for textual data analysis. Features include: construction of custom corpora out of collections texts in standard formats (XML-TEI, plain TXT, DOCX files); searching by forms and/or headwords (also using wildcards and advanced search options, such as filtering texts by user selection and/or metadata); downloading of the textual contexts identified through searches in different formats (e.g. PDF, DOC, DOCX, RTF, XML-TEI) with the possibility of customizing the context breadth, and of including bibliographic information; searching for co-occurrences; an API set that allows interoperability of the tool with other software. As for RAISE, the TIGRO modular architecture, based on micro-services, can be adapted to the scientific needs of the users and integrated in various contexts and with different systems, promoting interoperability and long-term sustainability.

CAT: Query and Data Extraction; Data representation & Visualization

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**Max number of Users/User teams for the call: 3**

**Specific data policy on reuse:** The User/User team is responsible for the data redistribution policy. The User/User team is recommended to use open licenses and depositing data in the DARIAH-IT repository to make it more accessible and reusable.

For any other specification, please see the [DMP - Tigro - Tesoro Italiano delle Origini, gestore ricerche](#)

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## Helpdesk Contact

For any questions contact the Access Coordination and Management Unit of H2IOSC at [tna.h2iosc@h2iosc.cnr.it](mailto:tna.h2iosc@h2iosc.cnr.it)