



# Digital Epigraphy in 2022<sup>1</sup>

## A Report from the Scoping Survey of the FAIR Epigraphy Project

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This document maps the state of digital epigraphy in 2022, with a focus on Open Science practices and accessibility of resources. The report is based on anonymised responses received during the digital survey circulating between February and April 2022, organised by the FAIR Epigraphy Project. The responses cover a broad spectrum of projects from Europe and the US, ranging from well established projects with a relatively stable institutional support to short-term projects with more narrow focus and limited access to IT support and funding. The results of the survey will be used to inform the planning of the FAIR Epigraphy project in the following three years. The report is fully reproducible (written in R programming language) and along with the anonymised data accessible via its own GitHub repository ([https://github.com/FAIR-epigraphy/scoping\\_survey\\_report](https://github.com/FAIR-epigraphy/scoping_survey_report)), and published through Zenodo.

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# Introduction

The field of digital epigraphy has seen significant development in recent years: not only are traditional epigraphic corpora increasingly being digitised and made accessible via their websites for anyone to browse and search but several resources are already born digital without any printed edition, e.g. *Inscriptions of Greek Cyrenaica* (Rouéche *et al.*, 2020), *Inscriptions of Roman Tripolitania* (Rouéche, 2022); for more see (Elliott, 2015). Most inscriptions contain references to places, people or events, or contain data related to the place and time of their creation and provide an ideal resource to study past communities as a whole. However, in order to be able to harness their full potential and for example access *all* inscriptions from a place of interest or of a given type, we need to link the existing datasets together. The concept of *Linked Open Data* (LOD) provides a means of connecting various digital datasets while enriching the text with, e.g. broader spatio-temporal context as well as prosopographic data, leading to the creation of new connections between individual inscriptions as well as archaeological sites or potential re-evaluation of historical narratives (Bagnall *et al.*, 2006; Geser, 2016; Tupman, 2021). Although many epigraphic datasets have been using LOD, especially to record the spatial component by using Pleiades or Trismegistos, there is still a considerable gap in the LOD implementation across the discipline and thus the accessibility of the data.

The contribution of individual projects can be beneficial to groups sharing similar interests (e.g. geographic area, chronological period, linguistic environment) but is rather limited to the epigraphic discipline as a whole. The value of LOD lies in being able to build on the efforts and investment of numerous generations of epigraphers who relentlessly produced high-quality publications in an analogue and nowadays, also in a digital form. Whether there is one master database connecting all the inscriptions together, or not, once the data is FAIR and linked to other LOD, new avenues of research open - either to large scale comparative studies such as (Assael *et al.*, 2022; Heřmánková *et al.*, 2021) or projects working on the same material but with different emphases (Mullen & Bowman, 2021; Willi, 2021). Once the data is linked, there is no need to build one central repository, which is often costly and non-sustainable in the long run as documented by the recent experience of the EAGLE Portal (Orlandi, 2021), but rather to empower individual users and provide them with clear guidelines and skills on how to work with LOD in epigraphy.

The **FAIR Epigraphy Project** (<https://www.csad.ox.ac.uk/fair-epigraphy>) aims to fill in the gap between the digitisation of inscriptions and being able to use their full potential as a digital resource. The FAIR Epigraphy project has been established as a collaboration between Johannes Gutenberg University in Mainz (Prof. Marietta Horster) and the University of Oxford (Prof. Jonathan Prag), funded by the Arts and Humanities Research Council (AHRC) and Deutsche Forschungsgemeinschaft (DFG) and will run for 36 months from 2022 to 2025. **FAIR Epigraphy** aims to create an interactive platform for all epigraphic projects, aligning their digital needs with the principles of FAIR science. The

overall desirability for **FAIR** - *Findable, Accessible, Interoperable, Reusable* (Wilkinson *et al.*, 2016) data is fundamental advancing research into the epigraphic, linguistic, and material culture of the ancient world.

*“The principles emphasise machine-actionability (i.e. the capacity of computational systems to find, access, interoperate, and reuse data with none or minimal human intervention) because humans increasingly rely on computational support to deal with data as a result of the increase in volume, complexity, and creation speed of data.”* (FAIR Principles website, <https://www.go-fair.org/fair-principles/>)

With the increase in Linked Open Data and novel interface technologies and standards, the FAIR Epigraphy project will be able to create the tools and the community needed to transform epigraphic research in the digital age. However, the FAIR Epigraphy project does not wish to replicate any current efforts, but rather to align existing initiatives and bring them together to create a hub of high-quality tools and FAIR compliant standards and resources for the modern epigraphic discipline. Our internationally collaborative approach will enable and support innovative research across epigraphic data and the wider linked web of data (especially archaeological data), such that all epigraphic data is increasingly FAIR for both the research community and the wider public. To this end, we aim to:

1. consolidate community-wide standards (vocabularies and ontology);
2. host and make fully accessible the resulting linked open data published by individual projects (RDF/XML data publication);
3. develop the tools for community implementation of those standards (vocabulary and ontology hosting and publication);
4. provide support to members of the community in implementing the standards within existing and new projects.

In order to map the existing field of digital epigraphy, current practices and standards, as well as clarify the (digital) needs of the discipline, we have circulated the two scoping surveys in February 2022 (*FAIR Epigraphy: Scoping survey for partners and collaborators* and *Digital epigraphy in 2022: scoping survey* for all digital epigraphy projects). The results of the surveys presented in the current report will be used to plan the activities and efficiently allocate the resources of the FAIR Epigraphy Project in the next three years. The survey answers are anonymised so that individual projects cannot be identified on the basis of their replies and the data is stored as a TSV (tab-separated value) file within the project’s GitHub repository ([https://github.com/FAIR-epigraphy/scoping\\_survey\\_report/](https://github.com/FAIR-epigraphy/scoping_survey_report/)) as a supplement to the text of this report and can be accessed under the CC-BY-SA 4.0 International License. The report is produced in two formats: a traditional PDF (available at [https://github.com/FAIR-epigraphy/scoping\\_survey\\_report/blob/main/scripts/01\\_FAIR\\_epi\\_report.pdf](https://github.com/FAIR-epigraphy/scoping_survey_report/blob/main/scripts/01_FAIR_epi_report.pdf)) and an interactive HTML page where reader can browse through the responses (available at [https://fair-epigraphy.github.io/scoping\\_survey\\_report/scripts/01\\_FAIR\\_epi\\_report.html](https://fair-epigraphy.github.io/scoping_survey_report/scripts/01_FAIR_epi_report.html)). If you are viewing this report in the HTML format, you can click on the arrow in the top right hand corner of the table to see more data (where the arrow is available).

*Disclaimer:* The views and opinions expressed during the survey (presented in tables) do not necessarily reflect the views or positions of the FAIR Epigraphy Project.

# FAIR Epigraphy partner projects

This section summarises the results of the online survey *FAIR Epigraphy: Scoping survey for partners and collaborators* aimed at the established digital projects that are already official partners and collaborators of the FAIR Epigraphy Project. We sent the survey to 14 partner projects. We received 13 responses to the survey, with a response rate of 93% with some participants responding on behalf of two projects combined into one response (and thus skewing the response rate). 100% of participating partner projects gave consent to publish their anonymised responses as part of this report.

The partner projects represent successful projects with the average duration of a project being 6 years. The shortest participating project reported their duration as 3 years and the longest as 207 years.

## Language coverage

**Question:** *What is the predominant language of epigraphic data in your project (for mixed collections or collections where other languages are predominant provide details in Other)*<sup>1</sup>

language	n	ratio
Latin	9	30
Greek	7	23
Hebrew	2	7
Other	2	7
Ancient Celtic	1	3
Elymian	1	3
Etruscan	1	3
Gaulish	1	3
Oscan	1	3
other epichoric languages from the west provinces of Rome (excl. Africa)	1	3
Phoenician-Punic	1	3
Punic	1	3
Raetic	1	3
Sikel	1	3

<sup>1</sup>If you are viewing this report in the HTML format, you can click on the arrow in the top right hand corner of the table to see more data (where available). This functionality is not available in the PDF format.

**Commentary:** The language coverage of the participating projects consists predominantly of Latin and Greek either on its own or in combination (representing 53% of the answers). The languages listed as **other** consisted of *Other, Ancient Celtic, Elymian, Etruscan, Gaulish, Oscan, other epichoric languages from the west provinces of Rome (excl. Africa)*. 8 participating projects record inscriptions in one language only, while 5 contain inscriptions in two or more languages (7 being the maximum number of listed languages.) The **other** (i.e. other than Greek and Latin) category encompassed a substantial part of the surveyed projects, documenting the need to expand beyond the traditional Latin and Greek focus of the classical epigraphic discipline. It is, however, worth noting that the majority of participating projects record languages from the wider Mediterranean/European linguistic space.

### Combinations of languages as retrieved from the survey:

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partners\$Language\_clean

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Greek; Latin

Latin

Gaulish

Latin; Greek; Punic; Etruscan; Hebrew; Raetic; Other

Latin; Greek; other epichoric languages from the west provinces of Rome (excl. Africa)

Greek

Ancient Celtic

Latin

Latin; Greek; Other

Greek; Latin; Phoenician-Punic; Oscan; Sikel; Elymian; Hebrew

Latin

Latin

Greek

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## IT infrastructure

**Question:** *Does the project have a website?*

Website	n
Yes	13

**Commentary:** All of the participating projects currently maintain an online presence (as of February 2022).

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**Question:** *Does your project have an IT specialist(s)?*

IT_spec	n	ratio
Yes, equivalent of part-time (<1.0 FTE) position	7	54
No	3	23
We paid some specialists, but currently we have no budget for them (and this is a problem, even for the sustainability and ordinary maintenance of our digital assets)	1	8
Yes, equivalent of full-time (1.0 FTE) position	1	8
Yes, equivalent of more than full-time (>1.0 FTE) position	1	8

**Commentary:** The majority of the digital partner projects have an IT specialist, yet only 2 projects have an equivalent of 1.0 FTE or more at their disposal. 54 % of projects have access to part-time IT support for their projects, which in some instances may be only a few hours per week per project. 4 projects reported no availability of IT support, even on a part-time basis (representing 31% of participating partner projects).

**Question:** *Does your project store epigraphic data in the following formats...?*

format	n	no_format
Epidoc XML	4	1
Epidoc XML, CSV, SQL or similar	1	3
Epidoc XML, in print	1	2
Epidoc XML, JSON, CSV	1	3
Epidoc XML, JSON, RDF	1	3
Epidoc XML, SQL or similar	1	2
None - we use analog systems (printed)	1	1
RDF, SQL or similar	1	2
SQL or similar	1	1
We aim to switch to Epidoc XML storable data	1	1

**Commentary:** The majority of projects use Epidoc XML as their main output data format (77% of participating projects), either in combination with other formats or as a sole data format. Other data formats are represented less frequently: JSON (15%), RDF (15%), SQL(31%) and CSV (15%). 31% of projects use only one type of data format, while 46% use two or more data format types.

## Data sharing

**Question:** *Do you share your data outside of your project?*



share	n	ratio
Yes, under a Creative Commons license	7	54
Not currently, but we are thinking about it	1	8
Yes, on demand	1	8
Yes, under a Creative Commons license; Yes, without any license	1	8
Yes, without any license	1	8
Yes, without any license, We aim to switch to CC-BY 4.0	1	8
Yes, without any licenses; The question of licences is under consideration	1	8

**Commentary:** All partner projects reported their willingness to share the data, even if they are not currently doing it, or if they provide the data only on demand. 54% of partner projects share the data under a Creative Commons license (<https://creativecommons.org/>), which is the preferred mode according to the FAIR data principles. The majority of partners which are currently not using Creative Commons licenses are considering their use in the future.

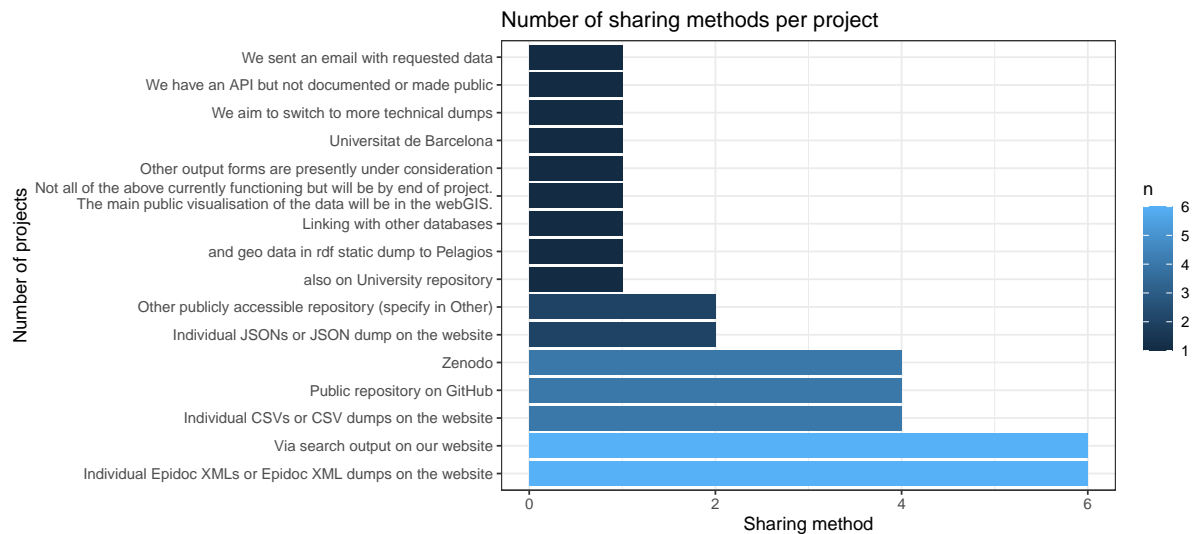
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**Question:** *How do you share your data with users outside your project?*

share_all	n	share_method
Individual Epidoc XMLs or Epidoc XML dumps on the website	1	1
Individual Epidoc XMLs or Epidoc XML dumps on the website; Via search output on our website	1	2
Linking with other databases	1	1
Other publicly accessible repository (specify in Other); Universitat de Barcelona	1	2
Public repository on GitHub	1	1
Public repository on GitHub; Individual Epidoc XMLs or Epidoc XML dumps on the website; We have an API but not documented or made public	1	3
Public repository on GitHub; Zenodo; Individual JSONs or JSON dump on the website; Individual CSVs or CSV dumps on the website; Individual Epidoc XMLs or Epidoc XML dumps on the website; Via search output on our website; Not all of the above currently functioning but will be by end of project. The main public visualisation of the data will be in the webGIS.	1	7
Public repository on GitHub; Zenodo; Other publicly accessible repository (specify in Other); Individual CSVs or CSV dumps on the website; Individual Epidoc XMLs or Epidoc XML dumps on the website; Via search output on our website; also on University repository; and geo data in rdf static dump to Pelagios	1	8
Via search output on our website; Other output forms are presently under consideration	1	2
Via search output on our website; We aim to switch to more technical dumps	1	2
Via search output on our website; We sent an email with requested data	1	2
Zenodo; Individual CSVs or CSV dumps on the website	1	2

share_all	n	share_method
Zenodo; Individual JSONs or JSON dump on the website; Individual CSVs or CSV dumps on the website; Individual Epidoc XMLs or Epidoc XML dumps on the website	1	4

**Commentary:** All partner projects provide at least one way of sharing the data (whether it may be currently accessible to the public or not, or it is intended to be accessible in the future). The average (median) number of sharing methods per project is 2.



**Figure 1:** Figure showing the popularity of individual sharing methods and formats across partner projects.

**Commentary:** Direct download of the Epidoc XML is by far the most popular format for data sharing (implemented by 6 projects), however other Open Science services are starting to make their way into established digital epigraphy projects, such as sharing via a public repository, implemented by 4 (GitHub) and 4 (Zenodo) projects respectively, as well as providing raw data in the CSV (comma-separated value) format (4 projects), or as JSON (JavaScript Object Notation) files (4 projects). A minority of participating partner projects shares the data on an on-demand basis or have a non-public API access point to their data.

## Institutional policies

**Question:** *Does your institution or funding body require your project to comply with any data policies (e.g. FAIR principles, data storage, data sharing, Open Science)?*

policies	n	ratio
Yes	7	54
No	3	23
Not yet	1	8

policies	n	ratio
The ERC open data policies don't apply to this project, but we are following them anyway.	1	8
This is an objective, but not currently a requirement of the project.	1	8

**Commentary:** The majority of projects (represented by 54%) are required to comply with data-related policy introduced either by their institution or a funding body. 47% of partner projects is not required to follow any data policy, but some follow it on a voluntary basis.

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**Question:** *If you have answered YES in the previous question, please specify what are the policies, or provide a link.*

policy_specified
The funding body (the ERC) expects that research results are available in open access Open access publication. Actualització de la Política d'Accés Obert a la Universitat de Barcelona ( <a href="http://hdl.handle.net/2445/142065">http://hdl.handle.net/2445/142065</a> ) Data Sharing, Open Science usual ERC requirements Currently subject to ERC open data policies ( <a href="https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/open-access_en.htm">https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/open-access_en.htm</a> ); previously Oxford University open data policies (which mirror UKRI policies: <a href="https://www.ukri.org/publications/ukri-open-access-policy/">https://www.ukri.org/publications/ukri-open-access-policy/</a> ) <a href="https://forschungsdatenmanagement.bbaw.de/de">https://forschungsdatenmanagement.bbaw.de/de</a>

**Commentary:** Several of the partner projects follow the ERC data and open access policies. More information on ERC Open Research Data and Data Management Plans can be found at [https://erc.europa.eu/sites/default/files/document/file/ERC\\_info\\_document-Open\\_Research\\_Data\\_and\\_Data\\_Management\\_Plans.pdf](https://erc.europa.eu/sites/default/files/document/file/ERC_info_document-Open_Research_Data_and_Data_Management_Plans.pdf) or at ERC Open Science policies page <https://erc.europa.eu/managing-your-project/open-science>.

## Open Science practice

**Question:** *Standardized terminologies: The project uses the following systems:*

standard_terminologies	n	ratio
Internal authority lists	8	62
Own version of EAGLE vocabularies (edited for our project)	7	54

standard_terminologies	n	ratio
EAGLE vocabularies as provided at <a href="https://www.eagle-network.eu/resources/vocabularies/">https://www.eagle-network.eu/resources/vocabularies/</a>	5	38
Other: “Pre-defined lists are a problem in itself as it is difficult to categorize in advance everything what may be found in real life. Besides there often are open questions. Flexibility and openness for real evidence is needed.”	1	8
Other: <a href="http://kerameikos.org/">http://kerameikos.org/</a> for vase forms	1	8
Other: Language of publication is Latin	1	8
Other: use of <a href="https://www.getty.edu/research/tools/vocabularies/aat/">https://www.getty.edu/research/tools/vocabularies/aat/</a> where EAGLE is deficient	1	8

**Commentary:** The internal authority lists are the most used method to record epigraphic terminologies (54 % of projects). The lists of vocabularies for the epigraphic discipline created by the EAGLE project (<https://www.eagle-network.eu/resources/vocabularies/>) are used either in the original form (38% of participating projects) or in the form modified for the needs of the project (62% of participating projects). The use of non-standardized internal authority lists and the need for modifications suggests that the EAGLE vocabularies do not in fact form a community-wide standard and need to be improved before becoming one. The process has been already started by the Epigraphy.info Vocabularies working group of which Hermankova, Horster, and Prag are all members. For more details see [https://epigraphy.info/vocabularies\\_wg/](https://epigraphy.info/vocabularies_wg/). If you would like to join the working group, please get in touch with the authors.

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**Question:** *Standardized terminologies: data on combination of vocabularies systems*

standard_method_no	n	ratio
1	6	46
2	4	31
3	2	15
4	1	8

**Commentary:** The majority of projects (46%) uses only one method to record their standard terminologies, while 54% of projects use a combination of two or more methods. Internal authority lists are used in combination with the EAGLE vocabularies both in their original and modified form. Sharing or publication of internal authority lists would therefore be highly beneficial for improving the existing EAGLE vocabularies.

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**Question:** *Linked Open Datasets: The project uses the following systems:*

linked_data	n	ratio_all_proj
Trismegistos	10	77
Pleiades	9	69
EAGLE vocabularies	7	54
PIR	4	31
EDH People	2	15
LGPN	2	15
Other: Adriatlas	1	8
Other: Cartapulia	1	8
Other: <a href="http://kerameikos.org/">http://kerameikos.org/</a>	1	8
Other: More under consideration. Trismegistos is not free!	1	8
Other: OxREP mines database	1	8
Other: Publication is in complete sentences and descriptions which would first have to be converted into linked open reference data	1	8
Other: We provide TM references in our bibliography but inconsistently and without cross linking	1	8
Other: We were working on a cooperation with TM when our funding finished	1	8
Period.O	1	8

**Commentary:** From the listed Linked Open Datasets (LOD), Trismegistos and Pleiades are by far the most popular, being used in 77% and in 69% of all participating projects. The EAGLE vocabularies are used in 54% of all participating projects.

Group of LOD resources focusing on geographic data (e.g. Pleiades, Adriatlas, Cartapulia, Trismegistos) seems to be strongly represented amongst participating projects (92 % use at least one of them), suggesting the geographic LOD are well-established for the study of the ancient world.

The prosopographic data, represented by EDH People, PIR, and LGPN are used by 46% of all participating projects. The survey responses suggest there is a great space for improvement and potentially great benefit in creating and further improving prosopographic LOD.

# Non-partnered epigraphy projects

This section summarises the results of the online survey *Digital epigraphy in 2022: scoping survey* for all digital epigraphy projects aimed at digital projects currently listed under Digital Epigraphy Projects on the Digital Classicist Wiki page (<https://wiki.digitalclassicist.org/Category:Projects>) that were possible to trace in February 2022. The survey was sent to 83 projects and the link circulated until mid-April 2022. We have received 27 responses to the survey, a response rate of 31%. Some participants contributed on behalf of multiple projects in one response, which we were unable to disentangle and thus the response rate is slightly skewed. 96% of non-partnered projects gave consent to publish their anonymised responses as part of the current report. The remaining responses are excluded from the report but will be used to inform the FAIR Epigraphy planning and decision making.

The respondents represent a wide range of projects from well established projects to short-term PhD projects, with the average duration of a project being 5.5 years. The shortest participating project reported their duration as 1 year and the longest 117 years.

**Question:** *Is the project still active?*

status	n	ratio
Yes	19	73
Currently not, but we are considering a re-start	4	15
No, the project is closed	3	12

**Commentary:** 73% of responding projects are still active, while 12% of projects are permanently closed and do not consider restarting in the future. 15% of projects are currently not active, but might be reactivated in the future.

## Language coverage

**Question:** *What is the predominant language of epigraphic data in your project (for mixed collections or collections where other languages are predominant provide details in Other)*

language	n	ratio
Greek	16	38
Latin	11	26
Phoenician	2	5
Akkadian	1	2

language	n	ratio
Ancient Languages of the Mediterranean area	1	2
Arabic	1	2
Aramaic	1	2
Hattian u.a.	1	2
Hittite	1	2
Hurrian	1	2
Luwian	1	2
Neopunic	1	2
Other	1	2
Palaeo-European	1	2
Palaeo-Hispanic	1	2
Punic	1	2

**Commentary:** The language coverage of the participating projects consisted predominantly of Latin and Greek projects representing 64% of projects combined. Greek being the most frequent language, either as a sole/predominant language (11 projects) or in combination with other languages (5 projects). Latin being a sole/predominant language in 6 projects or in combination with other languages (5 projects). 18 participating projects record inscriptions in one language only, while 8 contain inscriptions in two and more languages (5 being the maximum number of listed languages.).

The languages listed as **other** consisted of languages such as Phoenician, Akkadian, Ancient Languages of the Mediterranean area, Arabic, Aramaic, Hattian u.a., Hittite, Hurrian, Luwian, Neopunic, Other, Palaeo-European, Palaeo-Hispanic, Punic. All languages come from the wider Mediterranean/European linguistic space.

#### Combinations of languages as retrieved from the survey:

unique(projects\$Language_clean)
Latin
Greek
Greek; Latin; Other
Latin; Greek
Hittite; Akkadian; Hurrian; Luwian; Hattian u.a.
Greek; Latin; Aramaic; Phoenician; Arabic
Greek; Latin
Phoenician; Punic; Neopunic
Palaeo-European; Palaeo-Hispanic
Ancient Languages of the Mediterranean area

## IT infrastructure

**Question:** *Does the project have a website?*

Website	n
Yes	25
No	1

**Commentary:** The vast majority of the participating projects maintains an online presence (as of February 2022).

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**Question:** *Does your project have an IT specialist(s)?*

IT_spec	n	ratio
N/A	7	27
No	6	23
Yes, equivalent of part-time (<1.0 FTE) position	6	23
Yes, equivalent of full-time (1.0 FTE) position	2	8
depending on development steps; expertise and experience transfer also among project staff.	1	4
We are in cooperation with an IT specialist (equivalent of full-time (1.0 FTE) position) of another project who takes care of a couple of databases.	1	4
We do not have an IT specialist permanently assigned to the project, but the project has institutional support, including whatever IT support is necessary.	1	4
We had one	1	4
We have the support of two IT specialists for maintenance and small updates, but for every major development we need to find new funding	1	4

**Commentary:** Only 8% of projects have an equivalent of 1.0 FTE or more at their disposal. 35% of digital projects have an IT specialist available for at least several hours per week or share them with other digital projects within their institution. Several projects report difficulty with finding financial resources to support further development and long-term sustainability of the project or even day-to-day support. 23% of the participating projects report that they currently do not have any access to IT support. An additional 27% of projects did not indicate whether they have access to IT support because they are no longer active. In order to understand the precise significance of this data, it would be necessary in future surveys to clarify the current funding status of individual projects.

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**Question:** *Does your project store epigraphic data in the following formats...?*

format	n	no_format
Epidoc XML	6	1



format	n	no_format
SQL or similar	4	1
3D models only	1	1
CSV, SQL or similar	1	2
Epidoc XML, CSV	1	2
Epidoc XML, JSON, RDF, CSV	1	4
Epidoc XML, SQL or similar	1	2
JSON, SQL or similar, the xml version of the data is available through the EAGLE project	1	3
RDF	1	1
SQL or similar, We are working on providing also an Epidoc XML version of at least the annotated texts ( <a href="https://epidoc.stoa.org/gl/latest/app-epi-mycenaean.html">https://epidoc.stoa.org/gl/latest/app-epi-mycenaean.html</a> ))	1	2
XML adapted from Epidoc XML	1	1

**Commentary:** The majority of projects use Epidoc XML as their main output data format (42% of participating projects), either in combination with other formats or as a sole data format. SQL and similar database formats are relatively common in 31% of projects. Other data formats are represented less frequently by a small number of projects and mostly as complementary data formats to more popular formats such as Epidoc XML or SQL: JSON (8%), RDF (8%), and CSV (12%). 4% of projects indicated the use of combination of analogue data and 3D data format. 4% of projects indicated using their own version of Epidoc XML, adapted to their specific needs.

19% of projects use only one type of data format, while 23% use two or more data format types (such as Epidoc XML, SQL or similar, 3D models only, CSV, JSON, RDF, the xml version of the data is available through the EAGLE project, We are working on providing also an Epidoc XML version of at least the annotated texts (<https://epidoc.stoa.org/gl/latest/app-epi-mycenaean.html>)), XML adapted from Epidoc XML).

The data format of the projects that are no longer active is recorded in the following *Data sharing* section, under *Closed Projects*.

## Data sharing

### Active projects

This section summarized only the ‘active’ projects. For ‘closed/non-active’ projects, see the section below.

**Question:** *Do you share your data outside of your project?*

share	n	ratio
Yes, under a Creative Commons license	8	42
Not currently, but we are thinking about it	3	16
so far without explicit license	1	5

share	n	ratio
Under demand	1	5
we periodically share our data with the Europeana platform	1	5
Yes, publishing contributions with link to the Catalogue of the projects	1	5
Yes, under a Creative Commons license, and also French Etalab Licence Ouverte / Open Licence	1	5
Yes, under a Creative Commons license, by login through guest password	1	5
Yes, under a Creative Commons license, We are linked with other databases (Clauss & Slabby, for instance)	1	5
Yes, without any license	1	5

**Commentary:** As of February 2022, 19 projects participated in the survey as active projects. The majority of active projects are willing to share their data, representing 82% of participating projects. 57% of active projects share the data under a Creative Commons license, which is the preferred mode according to the FAIR data principles. 10% of active projects share the data without any specific license, while 5% provide the data only on demand.

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**Question:** *How do you share your data with users outside your project?*

share_all	n	share_method
Individual Epidoc XMLs or Epidoc XML dumps on the website	2	1
Via search output on our website	2	1
depending of the request	1	1
Individual CSVs or CSV dumps on the website	1	1
Individual Epidoc XMLs or Epidoc XML dumps on the forthcoming website and GitHub	1	1
Individual Epidoc XMLs or Epidoc XML dumps on the website, We sent an email with requested data	1	2
on request	1	1
Other publicly accessible repository (specify in Other), <a href="http://repository.edition-topoi.org/collection/ICG">http://repository.edition-topoi.org/collection/ICG</a>	1	2
Other publicly accessible repository (specify in Other), Individual JSONs or JSON dump on the website, Individual Epidoc XMLs or Epidoc XML dumps on the website, Public API on our website, French Huma-Num platform and services, particularly Nakala services for our photographs ( <a href="https://nakala.fr/">https://nakala.fr/</a> )	1	6
Other publicly accessible repository (specify in Other), We have a DSpace instance for sharing project data. At present we are behind on putting material on the externally accessible database because of complications in moving to an EpiDoc-based metadata system.	1	2
Public repository on GitHub, Individual Epidoc XMLs or Epidoc XML dumps on the website	1	2
Sketchfab website	1	1

share_all	n	share_method
Via search output on our website, We sent an email with requested data, Research Data Repository (RDR) of the Cluster of Excellence “Understanding Written Artefacts”; Individual Epidoc XMLs or Epidoc XML dumps on the website is planned for the future.	1	4
We don’t currently share data outside our project	1	1
We sent an email with requested data, We ar planning to have an API; Search results can be downloaded as CSV files.	1	3
Zenodo, Other publicly accessible repository (specify in Other), Individual Epidoc XMLs or Epidoc XML dumps on the website	1	3
Zenodo, the xml version of the data is available through the EAGLE project	1	2

**Commentary:** As of February 2022, all active projects provide at least one way of sharing the data (whether it is currently accessible to the public or not, or it is intended to be accessible in the future). The average (median) number of sharing methods per project is 2, while the maximum number is 6.

There is no discipline-wide standard for data repository as all projects use either their institutional or national resources that may or may not be ideal for epigraphic data. From those who share the data, the Epidoc XML format is the most popular format for data sharing, as well as search output on the project’s website. Open Science practices do not seem to be a popular choice in digital epigraphy, such as sharing via public repository (e.g. GitHub or Zenodo), as well as providing raw data in the CSV (comma-separated value) format, or as JSON (JavaScript Object Notation) files. Computer-automated access to data is rare and manual human interaction, such as manual selection and/or manual download of files prevails, potentially hindering any quantitative and reproducible studies, or linking of datasets via automated processes. For example, an API access point is currently available only for a very limited number of projects.

## Closed projects

This section summarized only the ‘closed/non-active’ projects. For ‘active’ projects, see the section above.

**Question:** *Is the data created by your project accessible?*

share	n	ratio
Yes, under a Creative Commons license	5	71
Not currently, but we are thinking about making it available	1	14
Yes, without any license	1	14

**Commentary:** As of February 2022, 7 of the participating projects are closed. 71% of them provides access to their data under a Creative Commons license even though the

project is no longer active, 14% of closed projects provide access without any license and 14% do not currently provide access to the data they have created during the duration of their project, but they are considering to make the data available.

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**Question:** *Is the data created by your project accessible?*

service	n	ratio
Individual Epidoc XMLs or Epidoc XML dumps on the website	4	57
Public repository on GitHub	3	43
Other publicly accessible repository (specify in Other)	2	29
Other: <a href="https://open.library.ubc.ca/collections/squeezes">https://open.library.ubc.ca/collections/squeezes</a>	1	14
Other: ILC4CLARIN Repository <a href="https://dspace-clarin-it.ilc.cnr.it/repository/xmlui/handle/20.500.11752/OPEN-548">https://dspace-clarin-it.ilc.cnr.it/repository/xmlui/handle/20.500.11752/OPEN-548</a>	1	14
Via search output on our website	1	14
We don't currently share data outside our project	1	14

**Commentary:** As of February 2022, 7 of the participating projects are closed. Out of these closed projects, 57% provide their data in the Epidoc XML format on their website, 43% provide their data via public repository on GitHub, 29% via other publicly accessible repositories, such as Via search output on our website. 14% of closed projects don't currently share data outside the project (=1 project).

The fact that even the closed projects share their data in some form even after their project is no longer active/does not have funding for further development or maintenance is positive. However, most of the data sit on private or institutional websites that can easily disappear, along with access to the data. The best practice for the longevity of the created datasets would be archiving them to a publicly accessible repository, either GitHub, Zenodo, HAL, Open Science Framework or any similar archival infrastructure.

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## Institutional policies

*Question: Does your institution or funding body require your project to comply with any data policies (e.g. FAIR principles, data storage, data sharing, Open Science)?*

policies	n	ratio
No	11	58
Yes	3	16
Neither our grant funding (NEH), private funding, nor institutional funding REQUIRES compliance with data policies, but all three encourage open data practices.	1	5

policies	n	ratio
Not with an official request, at the moment	1	5
Policies are on the way, but not yet established.	1	5
The French National Centre for Scientific Research strongly encourages its members to comply with the FAIR principles.	1	5
We don't work for any institution	1	5

**Commentary:** 58% of projects do not explicitly have to follow any policy. 16% of projects are required to comply with data related policies, while an additional 20% of projects are encouraged to comply with FAIR data principles but no rules are enforced.

FIX: Some of the projects are already closed, requirements has changed in the last 5 years, not previously required.

---

**Question:** *If you have answered YES in the previous question, please specify what are the policies, or provide a link.*

```
## [1]
"https://www.uio.no/english/for-employees/support/research/research-data-
management/fair-data/"
## [2] "All : French \"Plan national pour la science ouverte:Open Science\",
https://www.ouvrirlascience.fr/plan-national-pour-la-science-ouverte/; FAIR principles,
Mandatory deposit of our publications on the open archive HAL,
https://hal.archives-ouvertes.fr/"
## [3] "Creative Commons"
```

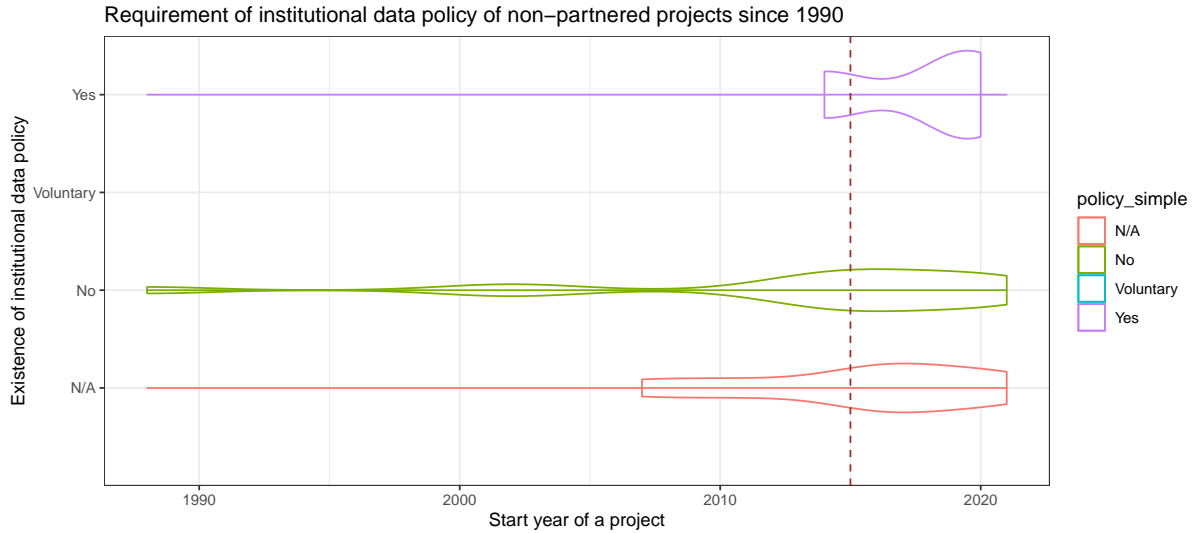
**Commentary:** Digital policies in the field of digital epigraphy are still being implemented, which does not reflect yet on past and current projects. There is a variation between national policies amongst our responses, with France providing a vocal example in the implementation of Open Science in digital epigraphy.

policy_simple	average_duration_yr
N/A	4.285714
No	10.071429
Voluntary	4.000000
Yes	35.750000

### Additional investigation:

The main factor influencing the need to comply with institutional principles seems to be however also the age of the project - for projects created in recent years (e.g. since 2015), we would expect FAIR data policy being one of conditions for securing funding. In order to verify this hypothesis, we collected the additional information manually from projects

websites and published materials, such as the official project start-date, the country of origin of a given project, indication of existing funding and primary focus of a given project (text publication or metadata collection); the anonymised data is saved as a TSV in the same GitHub repository as `/data/02_scoping_survey_anonymised_PostSurvey.tsv`.



**Figure 1:** The chart shows the existence of institutional data policy of non-partnered projects in time.

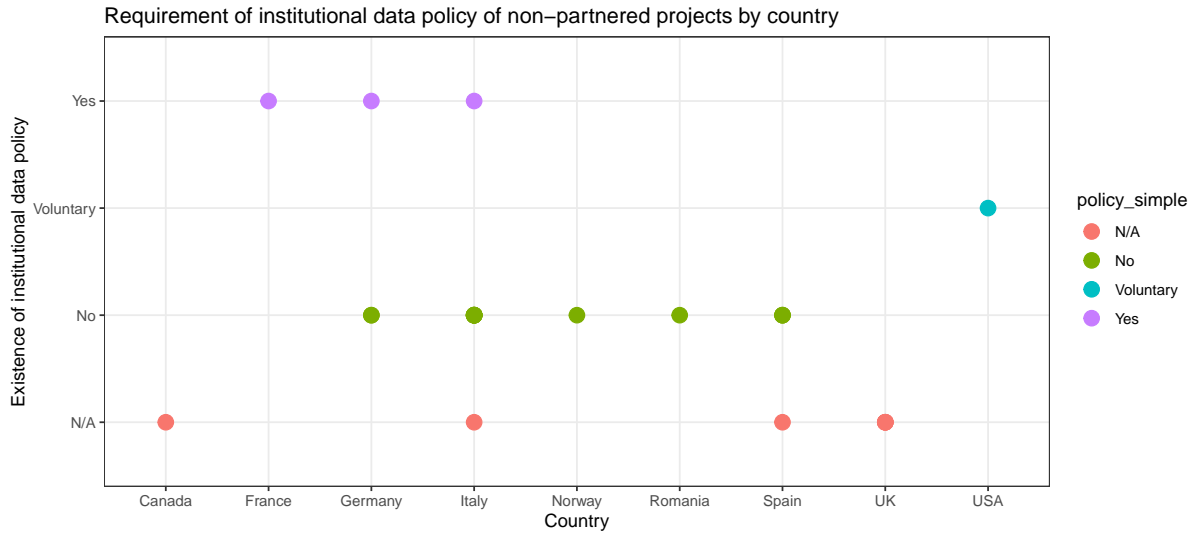
Our expectations on data policies being progressively implemented over the last seven years were confirmed only partially. As the chart below demonstrates, the number of projects that indicated existing institutional data policy grows steadily since 2015 (indicated by brown dashed vertical line). On the contrary, the number of projects that indicated no existing data policy decreases, but only relatively slowly. The projects responded N/A are those who consider themselves in February 2022 as *closed*.

The following figure shows clear geographic differences in implementation of data policies based on the main country where the project is based. France, Germany, and Italy are listed as countries where data policies are required, yet some projects in Germany and Italy answered that no data policies are required. Thus the practical implementation of data policies may depend on particular funding agency or institution, rather than on nation-wide policies. However, our results are only preliminary and based on a very small sample and need to be confirmed by further investigation.

## Open Science Practice

**Question:** *Are you familiar with the FAIR data principles?*

policy	n	ratio
Yes	19	73
Vaguely	6	23
No	1	4



**Figure 2:** The chart shows the requirement of institutional data policy of non-partnered projects by country.

**Commentary:** The majority of projects (73%) is familiar with FAIR data policy, however, 23% of participating projects are only vaguely familiar and would benefit from clear guidelines customised for the epigraphic community. Only 4% of projects are not familiar with FAIR data principles.

**Question:** *Standardized terminologies: The project uses the following systems:*

standard_terminologies	n	ratio
Internal authority lists	13	37
EAGLE vocabularies as provided at <a href="https://www.eagle-network.eu/resources/vocabularies/">https://www.eagle-network.eu/resources/vocabularies/</a>	7	20
Own version of EAGLE vocabularies (edited for our project)	6	17
We don't use any standardized lists	3	9
Other: <a href="https://epigraphie.mom.fr">https://epigraphie.mom.fr</a>	1	3
Other: The project suggests the use of vocabularies in digital projects dealing with ancient writing cultures [FAIR Epi: Not Applicable]	1	3
Other: We created our own thesaurus with OpenTheso tool (EpiVoc) <a href="https://thesaurus.mom.fr/opentheso/?idt=th61">https://thesaurus.mom.fr/opentheso/?idt=th61</a> and we aligne with existing vocabularies (work still in progress)	1	3
Other: We generated a system for metadata based on the UBC library's ability to categorize objects (it was very limited for ancient objects)	1	3
Other: We use standard Mycenological terms but the community does not yet have standardized lists.	1	3
Other: We use the data provided by Konkordanz der Hethitischen Keilschrifttafeln ( <a href="http://www.hethiter.net/hetkonk">www.hethiter.net/hetkonk</a> )	1	3

**Commentary:** 9% of projects don't use any standardized lists or vocabularies. 37% of projects use their own internal authority lists. EAGLE vocabularies in their original form are used by 20% of projects, and in an edited version by 17% of projects. Several projects that focus on languages other than Greek and Latin have created their own systems, sometimes working from existing vocabularies, but also building thesauri, e.g. the the creation of a thesaurus OpenTheso tool (EpiVoc) <https://thesaurus.mom.fr/opentheso/?idt=th61> aligned with existing vocabularies or using terms of the community.

Fix in commentary: We don't use any standardized lists - includes projects with focus on visualisation of inscriptions

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**Question:** *Are you willing to share the standardized terminologies used in your project with us (e.g. type of inscription vocabularies, type of material etc.)*

policy_share	n	ratio
Yes	23	88
No	3	12

**Commentary:** The vast majority of participating projects (88%) is willing to share any standardized terminologies used in their project, such as terminologies covering the type of inscription vocabularies, the type of material etc.

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**Question:** *Linked Open Datasets: The project uses the following systems:*

linked_data	n	ratio
Pleiades	13	50
Trismegistos	13	50
EAGLE vocabularies	9	35
LGPN	7	27
Other: None	3	12
PIR	3	12
Other: diacritical marks from Leiden (CIL)	1	4
Other: Geonames	1	4
Other: GODOT: <a href="https://godot.date/home">https://godot.date/home</a>	1	4
Other: I can't remember (sorry!)	1	4
Other: iDaiGazetteer	1	4
Other: idRef	1	4
Other: None were yet available - a new edition will want to use all	1	4
Other: Pactols	1	4
Other: PLRE	1	4
Other: ToposTexts	1	4



linked_data	n	ratio
Other: under demand	1	4
Other: We periodically ask to Trismegistos an ID for our records	1	4
Period.O	1	4

**Commentary:** Pleiades is the most popular LOD dataset, being used in 50% of all participating projects, as well as Trismegistos with 50%. EAGLE vocabularies are represented in 35% of participating projects, while combined prosopographic datasets (LGPN+PIR) in 39% of projects. Only % of participating projects do not use any LOD.

FIX: Prosopography - LGPN, PIR, PLRE Geography - Trismegistos, Pleiades, Geonames, iDaiGazetteer Chronological aspect - Periodo, Godot

It is worth noting that not every category listed amongst the responses is a true linked open dataset.

# Future needs of digital epigraphy

This section covers the wishes of all participating digital epigraphy projects. The responses were anonymised so no individual or project can be identified but otherwise presented as submitted in the survey.

## Partner projects

**Question:** *Our project would like to be able to use within the next three years:*

lod_f	n	ratio_all_proj
Bibliographical references to all epigraphic publications with stable URI (e.g. Zenon)	11	85
EAGLE vocabularies (revised and extended with clear structure + eliminated duplicates + multi-language support)	10	77
Roman Prosopographical data with stable URIs	10	77
Greek Onomastic data with stable URIs (e.g. LGPN with stable identifiers)	7	54
Open and accessible RDF Triplestore	7	54
One domain specific repository for epigraphic data	5	38
Other: standardised terminologies for instrumentum domesticum and palaeography	1	8
Other: We are not sure what is meant by “epigraphic data” in the preceding entry. If something like a papyri.info for inscriptions then no. If a basic aggregator like Humanities Commons for epigraphy then that would be more useful.	1	8

**Commentary:** The most popular is the option `Bibliographical references to all epigraphic publications with stable URI` (e.g. Zenon) represents the wishes of 85% of all partner projects.

The great interest in prosopographic LOD for is supported by 77% of partner projects for the Roman world and 54% of projects for the Greek world respectively.

The improved EAGLE vocabularies are wished for by 77% of partner projects.

The domain-specific repository for epigraphic data (discussed also under `Other` responses) or the open and accessible RDF Triplestore do not seem to be the highest priority of participating projects, but still relatively popular as 38% of responses wishes for one of the two. One participating project wishes specifically for the following: `Other: standardised terminologies for instrumentum domesticum and palaeography`.

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**Question:** *Potential ideas that our project would benefit from:*

lod_i	n	ratio_all_proj
Set of guidelines for FAIR and Linked Open Data in epigraphy	12	92
Practical scripted examples on how to use LOD in epigraphy	10	77
Workshop on FAIR principles in epigraphy	8	62
Workshop on how to use LOD in epigraphy	7	54
Set of guidelines/resources for quantitative analysis of epigraphic data	6	46
NA	1	8

**Commentary:** 92% of all projects would benefit from A set of guidelines for FAIR and Linked Open Data in epigraphy. There is a general interest in practical examples and workshop(s) on how to use LOD and FAIR Principles in Epigraphy, as well as resources for quantitative analysis of data in epigraphy.

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**Question:** *Additional digital needs*

## [1] "Further development of a single research portal to interrogate multiple epigraphic databases; development of a specific API to use the standardized common vocabularies"

## [2] "- Further collaboration and development of concepts for vocabularies. - Getty vocabularies crosswalks where they apply - In doing all this work, we hope that FAIR Epigraphy will use as many different applications of the EpiDoc schema as possible, so as to accommodate the ways different projects mark up documents and metadata."

## [3] "Sustainable common platform of all digital epigraphic editions (a Vision)"

## [4] "Advisory Board for new Digital Epigraphy projects, guidelines for FAIR epigraphy"

## [5] "Standards for palaeography, prosopography, bibliograpy, instrumentum domesticum and linguistic analysis"

## [6] "1) Provide us support in switching to Epidoc XML encoding 2) Help us clarify how our data are accessible to the public (CC-BY 4.0) 3) Promote the sustainability of projects whose funds have ended 4) Foster interoperability between digital resources 5) Improve the standardization of projects in digital epigraphy"

**Commentary:** This section covers the additional needs of partner projects. Partner projects would like to see a platform linking epigraphic data from multiple sources, including a stable reference point or an API for improved epigraphic vocabularies (in other words, the sort of resource which agreed vocabularies and an RDF triplestore might facilitate). Partner projects would also like to be able to use guidelines for FAIR practices in epigraphy, which currently do not exist.

## Non-partnered projects

**Question:** *Our project would like to be able to use within the next three years:*

lod_f	n	ratio_all_proj
Bibliographical references to all epigraphic publications with stable URI (e.g. Zenon)	17	65
EAGLE vocabularies (revised and extended with clear structure + eliminated duplicates + multi-language support)	17	65
Greek Onomastic data with stable URIs (e.g. LGPN with stable identifiers)	13	50
One domain specific repository for epigraphic data	11	42
Roman Prosopographical data with stable URIs	11	42
Open and accessible RDF Triplestore	6	23
Other: None	2	8
Other: Geolocation of inscriptions and searches related to geography	1	4
Other: In the case of our project most of the options are not applicable	1	4
Other: LGPN does not yet contain Mycenaean names but I would be happy if that changed	1	4
Other: This project is currently closed	1	4

**Commentary:** The most popular is the option `Bibliographical references to all epigraphic publications with stable URI` (e.g. Zenon) representing the wishes of 65% of all participating projects. The great interest in onomastic and prosopographic LOD for both the Greek and Roman world is supported by 92% of non-partnered projects. The improved `EAGLE vocabularies` are wished for by 65% of non-partnered projects. The domain-specific repository for epigraphic data (23%) or the open and accessible RDF Triplestore (42%) do not seem to be the highest priority of participating projects, but still a relatively popular response. One participating project wishes specifically for the following: Other: Geolocation of inscriptions and searches related to geography, which other existing projects, such as Pleiades or Trismegistos, might be better equipped to do. The differences between the wishes and answers of the non-partnered projects is inter alia related that several partner projects come from a world beyond Greek and Latin epigraphy.

---

**Question:** *Potential ideas that our project would benefit from:*

lod_i	n	ratio_all_proj
Set of guidelines for FAIR and Linked Open Data in epigraphy	22	85
Practical scripted examples on how to use LOD in epigraphy	17	65
Set of guidelines/resources for quantitative analysis of epigraphic data	17	65
Workshop on how to use LOD in epigraphy	16	62
Workshop on FAIR principles in epigraphy	11	42

lod_i	n	ratio_all_proj
In the next three years we planned a few Digital Epigraphy workshops in the frame of the French School at Athens	1	4
None	1	4

**Commentary:** 85% of all non-partnered projects would benefit from A set of guidelines for FAIR and Linked Open Data in epigraphy. There is a general interest in practical examples (65%) and workshop(s) on how to use LOD in epigraphy (62%), as well as resources for quantitative analysis of data in epigraphy (42%).

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**Question:** *Additional digital needs*

```
## [1] "Digitalization of Roman Inscriptions for dissemination and research"
## [2] "A workshop on integrating Mycenaean data into epigraphy?"
## [3] "Data retrieval also on spatial base: for example: from maps of the single archaeological sites and single complexes (as plans or 3d scans of catacombs and churches...). Links with the existing geographical and georeferenced resources. Controlled and shared vocabulary about palaeographical features; Storage, search and analysis of the 'aberrant forms' (not to be 'corrected') for Late Latin and Late/Byzantine Greek words (and names)."
```

```
## [4] "The most important for me would be 1/ to have a more complete view of real FAIR epigraphic projects and 2/a sustainable \"common place\" where to find resources + tools and help + let's call it an improved EAGLE + and more \"international\""
```

```
## [5] "It would be very nice (but I might be a bit biased!) if FAIR Epigraphy would like to help develop EFES (EpiDoc Front-End Services). For example by helping to make the existing RDF data export functionality really usable even by less experienced people."
```

```
## [6] "I would love to see it revitalized and improved with FAIR and Linked Open Data guidelines and other resources."
```

```
## [7] "Unicode for Punic"
```

```
## [8] "help to act in a shared dedicated academical environment and help in spreading our results"
```

```
## [9] "FAIR Epigraphy's team can help us by providing advice on specific topics"
```

```
## [10] "It would be useful to have an Open Access database of images of inscriptions that are free from Copyright limits."
```

**Commentary:** This section covers additional needs of participating digital projects. Some of the wishes might be beyond the scope of the FAIR Epigraphy project but the responses provide valuable guidance and hint to some of the challenges the epigraphic discipline will be facing in the near future. The responses may inspire other projects with similar needs to join forces and potentially develop the solution together. The FAIR Epigraphy project may offer one channel to explore and collaborate on the meeting of these needs in future.

# Summary

The present report demonstrates a great variation in the epigraphic discipline in 2022. We received answers from 13 partner projects (representing 100 % response rate) and approximately one-third response rate of non-partnered projects. As it may seem as a small number of projects participated in the survey, but the responses provide a representative sample of the current state of the discipline. The response rate of non-partnered projects was lower than the response rate of partner projects. This may signify the overall lower rate of compliance with FAIR principles, or the fact non-partnered projects might cease existing before FAIR principles were established and implemented by institutions.

The responses represent a diverse selection of projects, based mostly Europe and the US. The majority of projects focus predominantly on publication of textual editions of inscriptions (where Epidoc XML is the main data format), while some publish records containing related metadata without producing new editions of text (using different data formats than Epidoc XML).

Although the majority of participating projects record inscriptions in Latin and Greek, we see a diverse array of projects expanding beyond the focus of the discipline the way it was established in the 19th century. The projects participating in the survey involve well-established projects that have existed over several decades, regional or thematic corpora, and more specialised, short-term PhD projects. We have observed a clear distinction between on the one hand projects with a long tradition and most importantly with relatively stable institutional support, which have access to institutional repositories, policies and at least basic IT services and other, small-scale projects with limited support and access to resources and training, typified by to short-term projects on a specific topic that may lack access to long-term institutional support. One of the missions of the FAIR Epigraphy project is to support projects with limited access to resources by providing accessible and comprehensible training and guidelines for FAIR and Linked Open Data principles in epigraphy.

The established projects mostly follow the FAIR principles, although to a variable extent. The majority of established projects share their data under a Creative Commons license in one or more widely accepted formats (with Epidoc XML being the most popular format for all types of projects irrespective of their status and longevity). In general, the more established projects provide more access points to their data as well as more data formats than the projects with less institutional support. The use of standardized terminologies is still limited and project-specific, mostly due to the lack of uniformly accepted standards. On contrary, the adoption of Linked Open Datasets (LOD) and creation of links within the epigraphic datasets with stable identifiers to those LOD sources seems to be fairly advanced, especially in the case of well-established LOD domains such as Pleiades or Trismegistos for the Graeco-Roman projects, and to a lesser extent the EAGLE vocabularies.

The non-partnered projects follow the FAIR principles, but to a lesser degree than the established projects. There are, however, some short-time projects that fulfill or exceed the requirements for Open Science, but as a general rule the compliance is lower than in the case of established projects. The reason for lower compliance in some projects is most likely a combination of only a short-term institutional support, limited access to IT support, poor accessibility of guidelines and discipline specific training.

As to the current and future needs of digital epigraphy, there is a clear demand for more or better LOD. The requests concerned especially bibliographical references to standard epigraphic corpora, standardisation of discipline-specific vocabularies (improved EAGLE vocabularies), and prosopographic LOD for the ancient world. In addition, there is a wish for support by training and providing accessible resources and sets of guidelines for FAIR and Open epigraphy.

Petra - continue here: Fix: Next steps & next survey (interviews with partners before next survey)

Another mission is to provide support to established projects

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