

ΑΚΑΔΗΜΙΑ



ΑΘΗΝΑΝ



THE BATTLEGROUND OF HUMANITIES DATA: HANDLING MULTIDISCIPLINARITY AND DIVERSITY

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DARIAH-EU Annual Meeting 2019
Archiving and enriching data

Warsaw, Thurs 16/5/2019

PRESENTATION OUTLINE

The Nature of Humanities data

The Multidisciplinary and Diversity
Factors in Digital Humanities

Data from DARIAH-GR Infrastructure
Tools and Services

- DYAS Registries: multidisciplinary Registries of Collections and Organisations for the Humanities
- HUMANITIES Thesaurus: an ontology for the Humanities
- The 1940s: a Monothematic 'War of Data'

Discussion and Suggestions

INTRODUCTION

(Arts and)
Humanities
data show
varying
degrees of
formalisation

Formal vocabularies and strict typologies (linguistics, archaeology)

Varying accuracy of historical spatio-temporal data

Destruction of physical records of the past

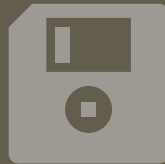
Imminent danger of digital “death”

Restricted and focused perspective of Digital Humanities projects

THE MULTIDISCIPLINARITY AND DIVERSITY FACTORS IN DIGITAL HUMANITIES



Availability of diverse, multidisciplinary, and rare materials through digitisation of cultural heritage collections and Humanities data



Overproduction of digital and digitised data

80% of the data are accompanied by zero or false metadata



Necessity for dominant and widely accepted metadata schemas

THE MULTIDISCIPLINARITY AND DIVERSITY FACTORS IN DIGITAL HUMANITIES

- Diversity of Arts and Humanities disciplines allows the study of the human condition as a whole
- Emerging trends of DH to capture, analyse and process data through the prism of multidisciplinary

The visualisation of citation links in the Arts and Humanities publications shows a cluster of interrelated topics:

- different facets of investigation that build a complex but straightforward network of multidisciplinary (Richardson 2013)

DATA FROM DARIAH-GR INFRASTRUCTURE: TOOLS AND SERVICES

- Multidisciplinary challenge of a registry of all Greek collections (Anthropology and Ethnology, Archaeology, Classics, History, Literature, Linguistics, and more)

DYAS Registries (<http://registries.dyas-net.gr/en>)

- Building the Humanities Thesaurus

DYAS HUMANITIES Thesaurus (<https://humanitiesthesaurus.academyofathens.gr/>)

DATA FROM DARIAH-GR INFRASTRUCTURE: DYAS REGISTRIES I

- Collections, both physical and digital, of interest to more than 15 disciplines
- Data recorded in cooperation with the collection holders
- Information on Greek institutions and collections accessible to Arts and Humanities researchers or other scholars
- The tool facilitates access to available digital resources to improve the quality of research or for educational purposes



DATA FROM DARIAH-GR INFRASTRUCTURE: DYAS REGISTRIES II



Social use of digital resources in the Humanities and Cultural Heritage



Continuous enrichment of registries data to enhance the visibility of Greek physical and digital content



Contribution of collection holders is essential



Amount of data, variety of disciplines and types of collections required a highly elaborated metadata schema to accommodate description



The schema allows for the metadata to be harvested and aggregated to another schema(ta)

DATA FROM DARIAH-GR INFRASTRUCTURE: DYAS REGISTRIES III

- Hunting metadata has often led the organisations and collectors to reassess their method of documentation in the light of interaction with the DH infrastructure
- Researchers access information about their research in numerous types of collections, varying from collections of objects regarding different branches of Humanities (museum collections, costume collections, postal cards, maps, etc.) to collections of digitised texts (collections of books, manuscripts, textbooks, correspondence, written and spoken data, etc.)

Esdras Moissis Archive (digital collection)

Γενικά Ειδικές πληροφορίες Ιδιοκτησία Δικαιώματα Γεωγραφική Κάλυψη Χρονική Κάλυψη Σχέσεις Επικοινωνία

Τίτλος

Esdras Moissis Archive (digital collection)

Φορέας

Εβραϊκό Μουσείο Ελλάδος

Εναλλακτικός Τίτλος

Greek : Αρχείο Εσδρά Μωυσή (ψηφιακή συλλογή)

Περιγραφή

Greek : Ψηφιακές απεικονίσεις υπό κλίμακα τεκμηρίων του αρχείου Εσδρά Μωυσή. Η πρόσβαση στο περιεχόμενό τους είναι δυνατή κατόπιν άδειας.

Θέματα

Μέσα Μαζικής Επικοινωνίας, Τύπος, Ιστορία, Κοινωνική Ιστορία, Ιστορία των Εβραίων, Εβραϊκές κοινότητες, Εβραϊκός πολιτισμός, Δεύτερος Παγκόσμιος Πόλεμος, Ολοκαύτωμα

Physical collections with no metadata or descriptive information

Physical collections with inconsistent metadata

Digital collections with no metadata

Digital collections with non-standard/custom-made metadata

Digital collections with a widely-accepted metadata schema

Integrating information into a coherent knowledge base to cover the needs of different organisations and to describe different collections.

Thurs 16/5/2019

DATA FROM DARIAH-GR
INFRASTRUCTURE:
CHALLENGES OF DYAS
REGISTRIES

DATA FROM DARIAH-GR INFRASTRUCTURE: DYAS HUMANITIES THESAURUS

HUMANITIES THESAURUS Dariah	
Alphabetical	Hierarchy
541 Linguistics	
740 Microlinguistics	
1130 Lexicology	
1179 Pragmatics	
1232 Semantics	
1242 Phonology	
1269 Phonetics	
1271 Syntax	
1278 Morphology	
933 Macrolinguistics	
1131 Typology (Linguistics)	
1151 Psycholinguistics	
1190 Language teaching	
1206 Corpus linguistics	
1215 Historical linguistics	
1234 Neurolinguistics	
1237 Language contact	
1257 Lexicography	
1270 Sociolinguistics	
1276 Dialectology	
1283 Forensic Linguistics	
1294 Ethnolinguistics	
1296 Computational Linguistics	
1356 Computational lexicography	
1368 Computational Syntax	
1392 Computational Semantics	
1394 Computational Pragmatics	
1400 Computational morphology	
1404 Computational Phonology	
1324 Text linguistics	

- **Challenge:** to agree on a common, top-level coherent and consistent “backbone” Thesaurus containing a limited number of concepts from which all the thematic vocabularies and terminologies would inherit their attributes
- The methodology of this discipline-agnostic Backbone Thesaurus was a bottom-up process
- Top-level concepts were developed by adequate abstraction from existing terminologies, meeting the demands for intersubjective and interdisciplinary validity

DATA FROM DARIAH-GR INFRASTRUCTURE: HUMANITIES THESAURUS II

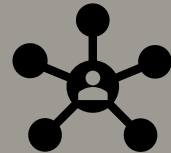
- The terms used in the DYAS Collections Registry are being modelled in a structured way under the top-level concepts of the Backbone Thesaurus.
- Related terms between different disciplines: the challenge to build a thesaurus across disciplines.
 - From Classical studies to Language studies, from Archaeology to History studies, from Theater and Performance Studies to Folklore studies and Culture Heritage.

Dramatic genres > Drama							
PREFERRED TERM	1090 Drama						
BROADER CONCEPT	717 Dramatic genres						
NARROWER CONCEPTS	1212 Historical drama						
SCOPE NOTE	Dramatic genre developed in the mid-18th century in western theatre under the influence of Enlightenment ideas, as a reaction to the classicist tragedy. The new form of drama deals with serious situations, intense confrontations and conflicts of common people, moving between tragedy and comedy.						
CONTRIBUTOR	hkatsiad						
CREATOR	HelenG						
IN OTHER LANGUAGES	<table border="0"> <tr> <td>Drame</td> <td>French</td> </tr> <tr> <td>Schauspiel</td> <td>German</td> </tr> <tr> <td>Δράμα</td> <td>Greek</td> </tr> </table>	Drame	French	Schauspiel	German	Δράμα	Greek
Drame	French						
Schauspiel	German						
Δράμα	Greek						
URI	https://humanitiesthesaurus.academyofathens.gr/dyas-resource/Concept/1090						
Download this concept:	RDF/XML TURTLE JSON-LD last modified 2019-02-12 Created 2015-09-162015-09-16						

THE 1940S: A MONOTHEMATIC 'WAR OF DATA'



Developing a digital platform for the integration of metadata related to digitized documents, photographs, artefacts, and moving images from the 1940s in Greece.



This interoperable platform will enable the public, the education community and the researchers to find, access, and reuse effectively the relevant data, as well as to discover underlying connections between them.

THE 1940S: A MONOTHEMATIC 'WAR OF DATA'



Cooperating Institutions

Contemporary Social History Archives (ASKI)

Hellenic Parliament Library

Audiovisual Archive of Hellenic Broadcasting Corporation (ERT)

Army History Directorate

Historical Archive of the University of Athens

Athens School of Fine Arts

Jewish Museum of Greece

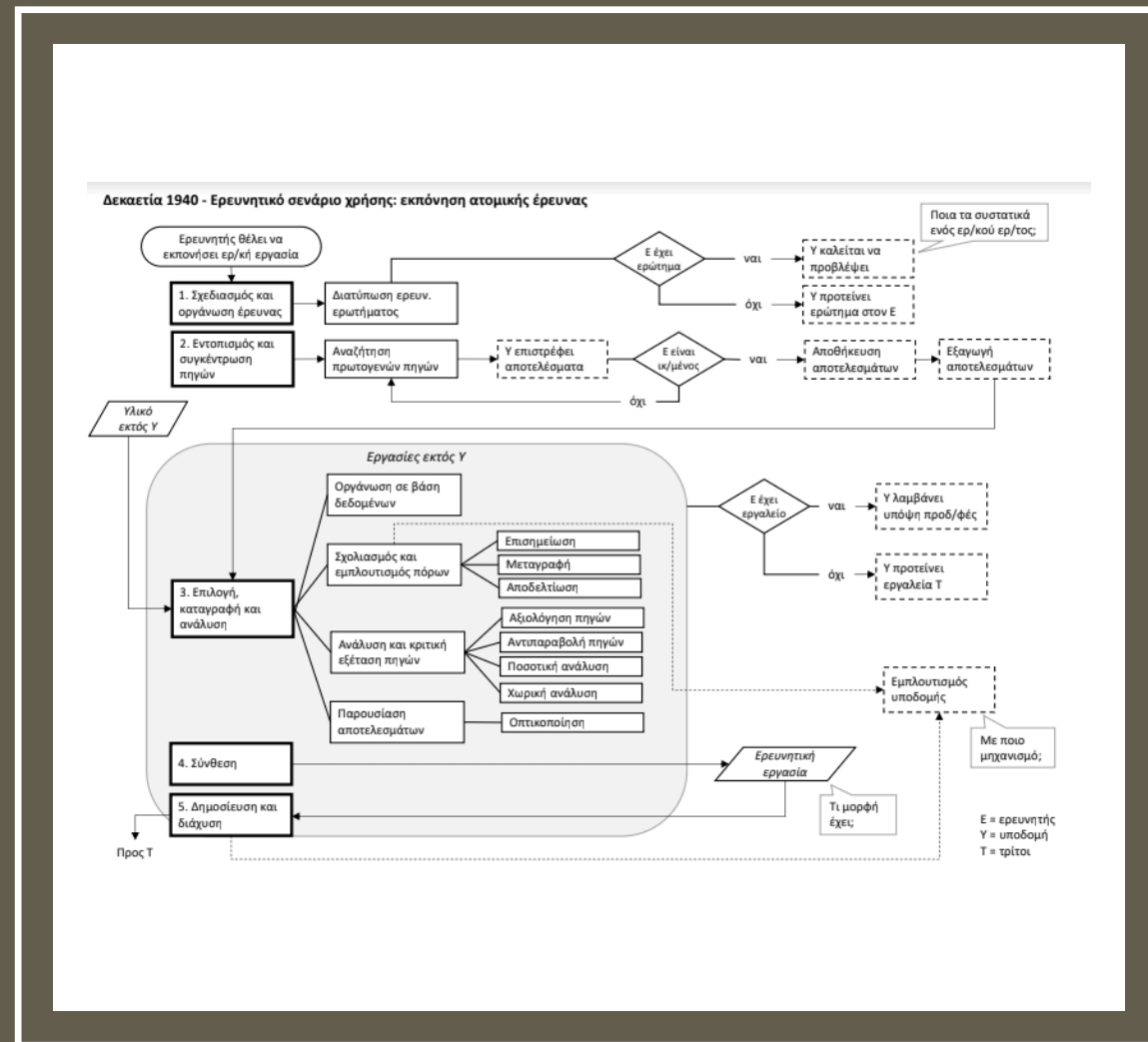
Academy of Athens



THE 1940S: A MONOTHEMATIC ‘WAR OF DATA’

- Handling humanities data is not a simple task, even within the framework of one discipline
- Important issues arise concerning the diversity of the relevant sources, the institutions that curate and preserve them, and the users’ requirements
- Data integration in major pools creates a demand for interoperability

Aims: devising an umbrella of “meta-metadata” that can bridge the varied specific metadata created by the holding institutions.



CONCLUDING REMARKS

- The three aforementioned services are inscribed within an Open Science strategy, which aims at enabling new lines of inquiry by combining available sources on data
- Following the necessary steps of processing for easy use (documented, machine-readable, understandable and readable in convenient format), the connection between open data and proper standardized metadata is required since this is the European Community goal to optimize the future impact of research in Europe (and worldwide)
- We try to reconcile the necessary standardization requirements with the complexity and diversity of Humanities data

REFERENCES

- Doerr, M., Daskalaki, M., Bekiari, Ch. (2014). *Thesaurus Building*. DYAS, FORTH. Retrieved from https://www.backbonethesaurus.eu/sites/default/files/ppt_thesuarus%20building.pdf
- Doerr, M., Katsiadakis, H., Daskalaki, M., Goulis, H. (2015). *Backbone thesaurus: Methodological outlines*. DYAS, Academy of Athens & FORTH. Retrieved from https://www.backbonethesaurus.eu/sites/default/files/ppt_methodoligical%20outlines.pdf
- Karasimos, A., Goulis, H., Kalafata, P., Lipke, A., Papadakis, N., Mergoupi-Savaidou, E., Tzedopoulos, Y., Falierou, A., Chrysovitsanos, G., Vernardaki, E., Spiliotopoulou, M. & H. Katsiadakis (in press). *From DARIAH-GR/DYAS to PARTHENOS-EU Project: the digital infrastructures, the Collections Registries and the Thesauri in Humanities* (in Greek). In Proceedings for Digital Humanities in Greece: issues and challenges. Athens: Research for the Humanities (RCH).
- Richardson, M. (2013). Mapping the Multidisciplinarity of the Arts & Humanities. *Research Trends* 32. Elsevier Publications. Retrieved from <https://www.researchtrends.com/issue-32-march-2013/mapping-the-multidisciplinarity-of-the-arts-humanities-2/>.
- Wineburg, Samuel (1991). On the Reading of Historical Texts: Note on the Breach Between School and Academy. *American Educational Research Journal* 28 (1991), pp. 495-519. Retrieved from https://pdfs.semanticscholar.org/6499/13b351565c07d5d53f852b954eac09a1b0da.pdf?_ga=2.124481870.511527096.1552041570-174633602.1550749431