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DARIAH - SHAPING EUROPEAN RESEARCH IN THE ARTS AND HUMANITIES

www.dariah.eu

Understanding our selves

- Research in the Arts and Humanities is about observing and analyzing human traces to help understanding how we humans constitute ourselves as individuals and as societies.
- A variety of patterns: communicational, emotional, behavioral, metaphysical
- A variety of traces: artifacts, language productions, artistic works, performances, constructions, destructions



Working with digital traces

Qualifying: Material, Genre, Author, Documenting: Origin, date, content

Wollen das Dahm mibsch genan hinschreiben & es ist der 16. - d. h. die Nacht vom 16. 2mm 14. Ohlsber des exylorreichen Jahres 1941 - n. hents Nacht werden wahr, scheinlich die enten own den Berliner, Inden "mach Delen attransportiert): damit diese Trenel chronik anoh

Analyzing:
Layout, transcription,
names, dates

Communicating: Corpus, rights, contextualization



Arts and Humanities research in the digital era

- A scattered and heterogeneous landscape
 - Enormous digitization efforts in the public and private sectors
 - A long-standing tradition in humanities computing (digital humanities)
 - Some success stories: Text Encoding Initiative, strong communities (Epigraphy, Medieval studies)
 - Still, a majority of researchers with no real insights about digital sources, methods and publications
 - General issue of preserving digital results from one research project to another
- Ambition: dramatically raising awareness about digital methods in the arts and humanities



Challenges

- Localization and hosting of digital sources
- Environments for managing, exploring and enriching digital material
- Communication of one's own results in the digital world
- Community acceptance of paradigm changes in a transition period



Which infrastructure?

Enhance and support digitally-enabled research and teaching across the Arts and Humanities

- Providing technological components to work with digital objects
- Training researchers and working with communities
- Providing guidance about standards and best practices

A connected network of tools, information, people and methodologies

- Pulling together national initiatives
- Helping communities to integrate the digital shift



Brief history

2006: DARIAH @ ESFRI Roadmap



 2008 – 2011: Preparatory Phase project — Preparing DARIAH



 2011 – 2013: Transition Phase establishing the DARIAH-ERIC



• 2014-: DARIAH-ERIC







Founding members

Digital Research Infrastructure for the Arts and Humanities

| Founding Members | |
|------------------|-----------------|
| Austria | |
| Belgium | |
| Croatia | s the |
| Cyprus | Milaton and the |
| Denmark | |
| France | |
| Germany | |
| Greece | |

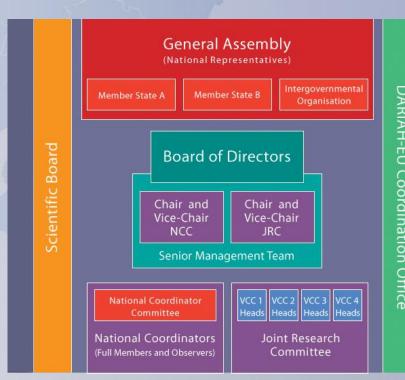
| Founding Members | |
|------------------|---|
| Ireland | |
| Italy | |
| Luxembourg | |
| Malta | + |
| Netherlands | |
| Serbia | |
| Slovenia | 3 |



Organisational Framework

A model based upon national contributions

- Expertise, technologies, capacity as well as research communities are spread across DARIAH members
- DARIAH services as a coordination of national capacities







The DARIAH space: communities

Arts

Archive of Digital Art (ADA)



Available prototypes to be provided to the DARIAH community

→ <u>Liverpool declaration</u>



Humanities

Existing communities of practice in eLexicography

COST IS 1305 ENeL



EUROPEAN
NETWORK OF
e-LEXICOGRAPHY

Providing requirements for the representation of ancient and modern dictionnaries

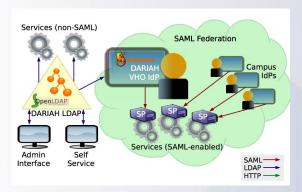




The DARIAH space: technologies

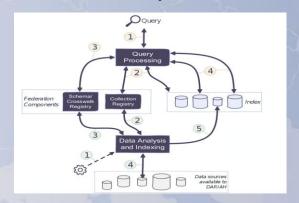
Technical infrastructure

AAI Infrastructure

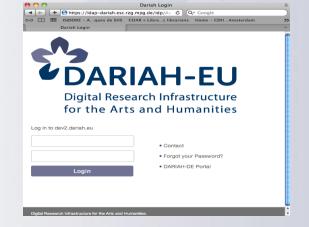


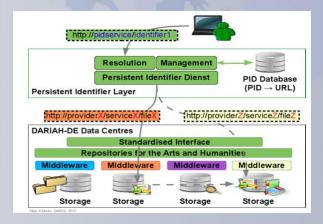
DARIAH-EU

Federated, Generic Search



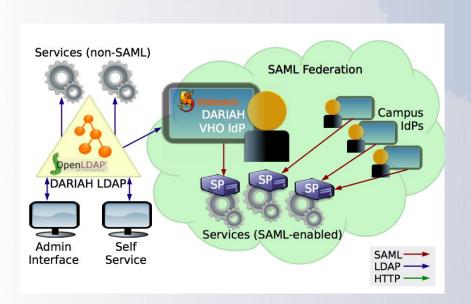
Collaboration Tools





Persistent Identification

DARIAH AAI



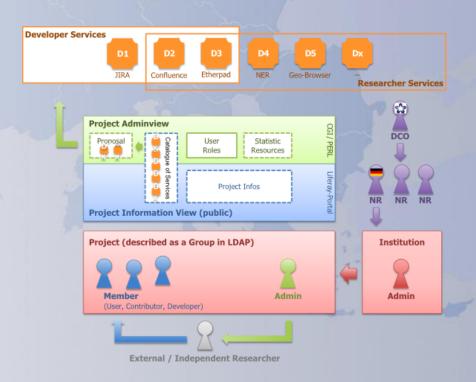
- In Whom We Trust?
 - Find and use a wide range of research data
 - Work across domains and disciplines
- Group and attribute management integration with DARIAH AAI



DARIAH AAI

- Possible ways for DARIAH:
 - Own federation for the Arts and Humanities
 - Federation of federations
 - good approach to pan European AAI: eduGAIN
 - DARIAH would like to see more and reasonable attributes available
 - Combination of eduGAIN and community specific DARIAH homeless-IdP and attribute authority
 - Support safe attribute release via GÉANT Code of Conduct

ARIAH-EU



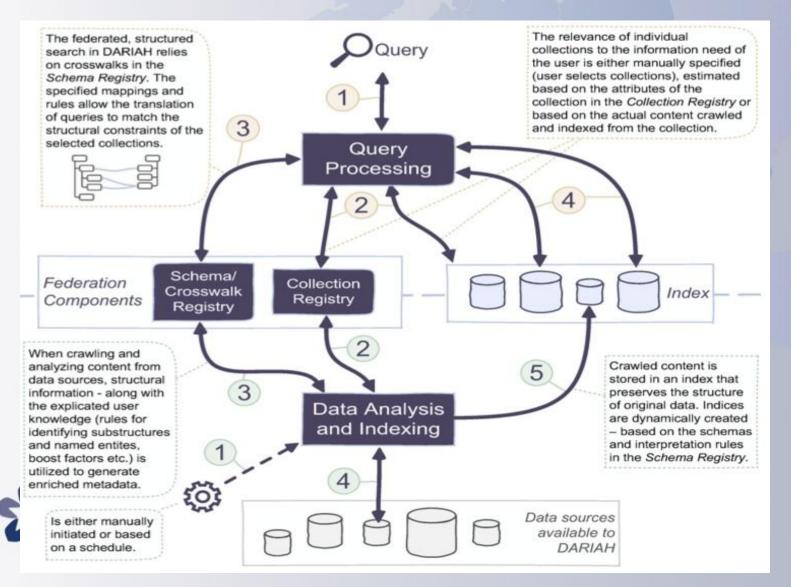
Federated, Generic Search

- Schema/Crosswalk Registry
 - Federated search relies on crosswalks
 - Mappings and rules allow transforming the queries to match the constraints of sources
- Collection Registry
 - Data sources (collections)
- Indeces
 - Store crawled and analyzed content
 - Dynamically created based on crosswalks



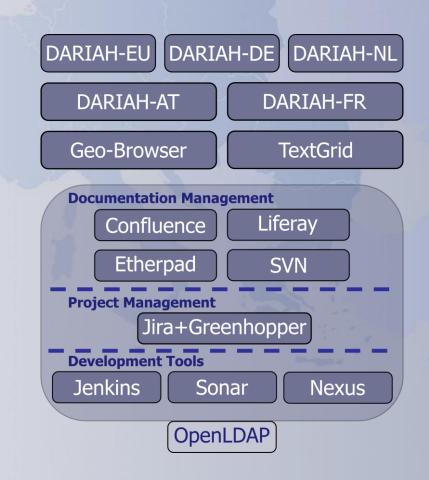


Federated, Generic Search (2)



Collaboration Tools

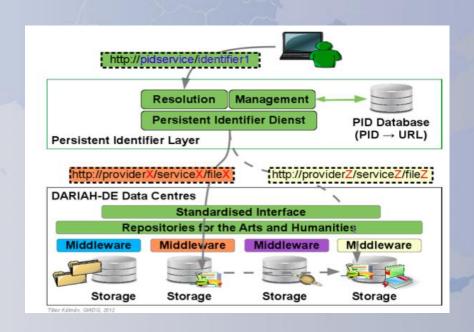
- Technical Infrastructure
- Project Management, Code Hosting, Revision Control, Software Testing, Documentation, Communication, Issue Tracking System with software (e.g. Etherpad, JIRA, Jenkins, Greenhopper among others)





Basic Services – Persistent Identifier

- Persistent identification of digital objects
 - for publishing and referencing
- It requires standards and services
- DARIAH applies existing standards and services
 - Handle (<u>www.pidconsortium.eu</u>), URN, etc
 - Globally distributed resolution
- Service operated by DARIAH partners







The DARIAH space: initiatives

Network of affiliated projects (1)



Archaeologists



Holocaust Researchers





Medieval and Modern Historians



Cultural Heritage conservation



Digital Textual Scholarship



Digital Methods

Network of affiliated projects (2)

- Enable discipline-specific infrastructures
 - Integrating activities
 - e.g. ARIADNE, CENDARI, CHARISMA, EHRI
- Research into e-Research, analysis of methods:
 - NeDiMAH (Network for Digital Methods in the Arts and Humanities)
 - TaDiRAH (Taxonomy of Digital Research Activities in the Humanities)



Example affiliated project: Cendari

- CENDARI: "is a research infrastructure project aimed at integrating digital archives for the medieval and World War one eras."
- What does CENDARI get from DARIAH?
 - DARIAH[-DE] technical environment (e.g. collaboration tools, long-term archiving, virtual machines)
 - Expertise in data modeling and standards for (meta-) data interoperability
 - Sustainable infrastructure and sustainability plan for CENDARI results
- How does DARIAH benefit from CENDARI?
 - Close links with historians, their research questions and methods
 - Access to a wide network of European archives
 - Good practices in formats and standards for archival description (EAG, EAC, EAD)





Key themes and dreams

Fostering national capacities

- 15+ countries with heterogeneous developments in digital methods in the Arts and Humanities
- Contributing to the development of national roadmaps for digitally enabled research in the humanities
 - Digitization programs
 - National technical infrastructures
 - Multidisciplinary initiatives
 - National funding schemes
 - Fostering specific support with EU structural funds



Humanities – let's go open

- Open humanities: a priority for the early period of DARIAH
- Combining efforts to improve awareness on
 - The need to make primary and secondary sources (publications) widely open and reusable
 - The means to openly communicate research results;
 from blogs to repositories
 - The good scholarly practices comprising licenses related to the delivery and re-use of open content





DARIAH-ERIC

Towards

a sustainable social and technical European eResearch Infrastructure for the Arts and Humanities

Questions?

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