

Realising the **European** Open Science **Cloud**



EOSC in practice. From a research communities' perspective

- Speakers:*
- CoronaWhy - Slava Tykhonov (DANS-KNAW)
 - Ethnic and Migration studies - Ami Saji (ETHMIGSURVEYDATA, SciencesPo)
 - Election studies - Cees van der Eijk (UNOTT)
 - Heritage Science - Emiliano Degl'Innocenti (E-RIHS, CNR)
 - Religious studies - Alberto Melloni (UNESCO chair Religious Studies, RESILIENCE)
 - Digital Humanities shaping interdisciplinary practices in Europe - Jennifer Edmond (DH@TCD)
- Chair:*
- Ron Dekker (CESSDA, SSHOC, EOSC EB)

Housekeeping rules

- The sessions will be recorded and made available afterwards.
- Please stay muted and keep your video off during presentations.
- You can ask your questions in the chat throughout the session.

Agenda

- **Welcome & EOSC in practice** - Ron Dekker (CESSDA, SSHOC, EOSC EB)
- **EOSC in practice. From the user communities' perspective. Now**
- **Sli.do**
- **EOSC in practice. From the user communities' perspective. In 10 years' time**
 - **The Research Communities**
 - CoronaWhy - Slava Tykhonov (DANS-KNAW)
 - Ethnic and Migration studies - Ami Saji (ETHMIGSURVEYDATA, SciencesPo)
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EOSC in Practice

The research communities' perspective



Slava Tykhonov
DANS-KNAW
CoronaWhy



Ami Saji
ETHMIGSURVEY
DATA, SciencesPo
*Ethnic & Migration
Studies*



Cees van der Eijk
University of
Nottingham
Election Studies



Emiliano Degl'Innocenti
CNR
Heritage Science



Alberto Melloni
RESILIENCE
UNESCO Chair
Religious Studies



Jennifer Edmond
DH@TCD
SHAPE-ID

A large crowd of people, mostly seen from behind, under a blue light. The text is overlaid on the center of the image.

CoronaWhy community

Slava Tykhonov (DANS-KNAW)

CoronaWhy community

Global research collaboration between scientific institutions and commercial companies:

- *Harvard Medical School*, INDRA integration
- Helix Group, *Stanford University*
- *NASA JPL*, COVID-19 knowledge graph and GeoParser
- *Kaggle*, coronamed application
- *Fraunhofer Institute for Intelligent Analysis and Information Systems IAIS*, knowledge graph
- *dcyphr*, a platform for creating and engaging with distillations of academic articles
- *CAMARADES* (Collaborative Approach to Meta-Analysis and Review of Animal Data from Experimental Studies)
- many others...



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[Calendar](#)

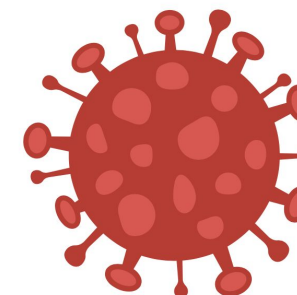
[JOIN THE FIGHT!](#)

FIGHTING CORONAVIRUS WITH ARTIFICIAL INTELLIGENCE

We are a globally distributed, volunteer-powered research organisation, trying to assist the medical community's ability to answer key questions related to COVID-19

[JOIN THE FIGHT](#)

[LEARN MORE](#)



Who we are?

Artur Kiulian started CoronaWhy because he realized that we are all in this together. Now CoronaWhy is an international group of 900+ volunteers whose mission is to improve global coordination and analysis of all available data pertinent to the COVID-19 outbreak and ensure all findings reach those who need them.

It's impossible to list everyone out but we will eventually.

1300+ people registered!

Dataverse as integration point

<https://datasets.coronawhy.org>

CoronaWhy Dataverse available as an experimental Cloud service initially developed in SSHOC project (led by DANS-KNAW) for EOSC communities. In operation for CoronaWhy starting from April, 2020:

- Harvard Data Commons for workflows
- used by CoronaWhy vertical teams for the data exchange and share
- intended to help researchers to make their data FAIR
- one of the biggest COVID-19 data archives in the world with 700k files
- new teams are getting own data containers and can reuse data collected and produced by others



Ethnic & Migration Studies


Ami Saji (ETHMIGSURVEYDATA, SciencesPo)

Who we are: Data producers, data users and data curators/managers of quantitative surveys undertaken with EMM (ethnic and migrant minorities) populations

What we want to answer:

1. How can we untap the full potential of EMM survey data for research and policymaking?
2. What are the main challenges of accessing and reusing EMM survey data?
3. What can we do as a data community to help make EMM survey data FAIR?

Why our work matters: EMM Survey Registry designed to be a 'one-stop-shop' where users can easily learn about existing EMM surveys



EMM Survey Registry

The EMM (Ethnic and Migrant Minorities) Survey Registry is a database of quantitative surveys that have been undertaken with EMM (sub)samples across Europe and beyond. Survey-level metadata is available for each of the surveys included in the EMM Survey Registry. Explore and learn about the different surveys and find specific surveys using the search, filtering (simple and advanced) and sorting features. Once the desired filtering, sorting and/or search parameters have been identified/selected, the list of surveys will be automatically updated.

Simple filtering (Advanced)

1.0. COUNTRY
Select options (several allowed) ▾

1.5. SCOPE OF SURVEY
 National (257)
 Subnational (239)

1.9. REPRESENTATIVE OF THE POPULATION
Select options (several allowed) ▾

1.10. TYPE OF SURVEY
Select options (several allowed) ▾

1.11. STARTING DATE OF SURVEY
.../.../...

1.12. END DATE OF SURVEY
.../.../...

Free text search: search for country, keyword, institution, scope, etc. [Help](#)

Showing: 1 - 25 of 496 search results
Sort by: [country](#) | scope | region | start date | end date | EMM target population | sample size

[Clear all selections](#) [Advanced filtering](#)

Croatia XML

Intercultural Approach to Ethnic Diversity and Identity: Croatia - Europe
Interkulturalni pristup etničkoj različitosti i identitet: Hrvatska - Europa

Scope of survey: National
Name of region(s) Eng.:
If subnational, type of subnational area: -
Starting date of survey: 2009-06-15
End date of survey: 2009-09-15
Survey in development/not yet completed: No
Date when the survey first became a part of an international survey programme: Not applicable
EMM target population: All residents of ethnic minority identification in the city/region/country
Survey designed as a general population survey: Yes
Total net/achieved sample: 1300
Language(s) of technical survey documentation in ISO code: HRV
Institution/team responsible for data production: Institute for Migration and Ethnic Studies, Zagreb
Institution/team that owns the data: Ministry of Education and Science of the Republic of Croatia; Institute for Migration and Ethnic Studies, Zagreb


How we and other stakeholders of EMM survey data are using machines:


Croatia


Intercultural Approach to Ethnic Diversity and Identity: Croatia - Europe
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XML


Search for Title, Author, DOI, Journal Name, Publisher etc. 

Showing page 001 of 103495 results, sorted by relevance  [view stats](#) [export stats](#)

Internally Displaced Persons and Elections under Military Conflict in Ukraine  1

Authors: Dorota Woroniecka-Krzyzanowska, Nika Palaguta
 Year: 2017
 Journal Name: JOURNAL OF REFUGEE STUDIES
 Taxonomy: [View Taxonomy Associations](#)

Journal Article 

UNHCR Population Statistics Database  2

Description: The database contains information on UNHCR's populations of concern from 1951 onwards. It can be used to investigate different aspects of displacement: host countries and countries of origin, status (refugees, asylum seekers, returned refugees, internally displaced persons (IDP), protected/assisted by UNHCR, returned IDPs, stateless persons, etc.), evolution over time, etc. The dataset covers more than 180 countries. Information like age and sex are also recorded. The data can be easily filtered by single or multiple variables. The selected data can be downloaded to comma-separated variable [Download](#)

Type of item

- Journal Article (89381)
- Book (3312)
- Book Chapter (2302)
- Working Paper (1046)
- Report Series (69)
- Report (3190)
- Project (3228)
- Data Set (215)
- Doctoral Dissertation (615)
- Policy Brief (137)

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EMM Survey Registry: Offers the information (i.e. metadata) about each survey in an XML format that complies with DDI Codebook. Metadata can be harvested by machines

Migration Research Hub's Research Database: "A constantly growing database that accumulates and structures relevant knowledge in the field of migration" through the use of APIs

A large crowd of people, seen from behind, under a blue light. The image is a high-angle shot of a dense crowd of people, mostly seen from the back of their heads and shoulders. The entire scene is bathed in a deep blue light, creating a monochromatic effect. The people are packed closely together, filling the frame from the foreground to the background. The lighting is soft but directional, highlighting the contours of the heads and shoulders. The overall mood is one of a large gathering or event.

Election Studies

Cees van der Eijk (University of Nottingham)

Election Studies

- Election studies are commonplace in virtually all **developed countries** & in an increasing number of **developing countries**.
- The community of election researchers is highly interconnected in terms of **theory, data and methods**.
- But weakly organised:
 - Main organisational structures are at **national level** and focused almost exclusively on **data collection** (e.g. National Election Studies).
 - Most data are **FAIR-compliant**; documentation and metadata predominantly based on **standards promoted by data archives** (e.g. GESIS, DANS, etc.). Degree of **shared use** (and of added value in further cycles of data existence) is high.
 - Beyond this, there is **little infrastructure or infrastructural development**.

Election Studies

The data we use

- (large-n) voter surveys;
- (coded) party manifestos,
- election results (for geographical units).

Virtually all these data are comparable over time (for different elections), and often over countries.



Image: Parker Johnson on Unsplash

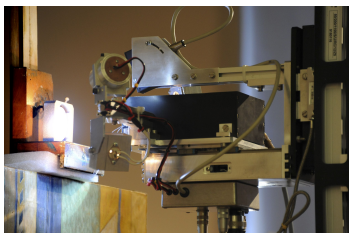
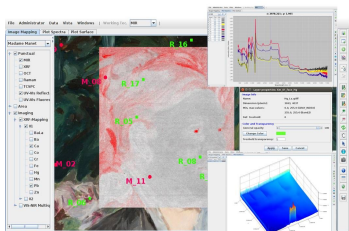
A large crowd of people, mostly seen from the back, under a blue light. The image is a monochromatic blue-toned photograph of a dense crowd of people, likely at a concert or event. The perspective is from behind the crowd, looking towards the front. The lighting is a deep, cool blue, creating a sense of atmosphere and unity. The text is overlaid in the center of the image.

Heritage Science

Emiliano Degl'Innocenti (E-RIHS, CNR)

Heritage Science and E-RIHS

- Heritage Science is an emerging **multi-disciplinary research field** addressing the global challenge of the study and preservation of **cultural and natural heritage**;
- The **European Research Infrastructure for Heritage Science** is a distributed RI designed to shape a strong identity for the currently fragmented scientific community and support the interpretation, preservation, documentation and management of tangible and intangible aspects of Cultural Heritage Artifacts;
- **Heritage Data** is producing, managing and consuming a huge volume of scientific data, such as:
 - **measurement results**, coming from other E-RIHS facilities or produced by researchers' own equipments;
 - other scientific datasets, including **texts, images, 3D models and more**, coming from diverse trusted sources.



- **ARCHLAB (archives)** gives access to specialised knowledge and organized scientific information in datasets largely unpublished from archives of European museums, galleries and research institutions;
- **FIXLAB (fixed facilities)** gives access to large-scale and medium-scale facilities (particle accelerators and synchrotrons, neutron sources; non-transportable analytical instruments) offering expertise to users for sophisticated scientific investigations on samples or whole objects, e.g. materials, alteration and degradation phenomena or authenticity;
- **MOLAB (mobile facilities)** offers access to mobile instrumentation for complex multi-technique, and non-invasive measurements on valuable or immovable objects, archaeological sites and historical monuments.
- **DIGILAB (virtual facilities)** gives access to scientific data concerning tangible heritage, making them FAIR. It includes searchable registries of multidimensional images, analytical data and documentation from large academic as well as research and heritage institutions.

Figure 1. Impact of E-RIHS ERIC - baseline scenario (EUR 2017)

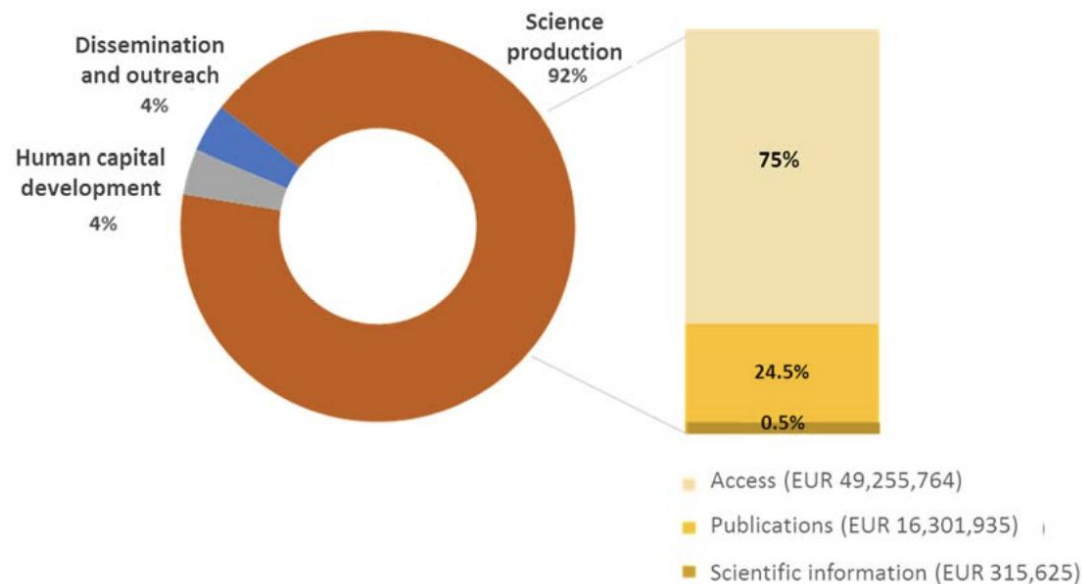
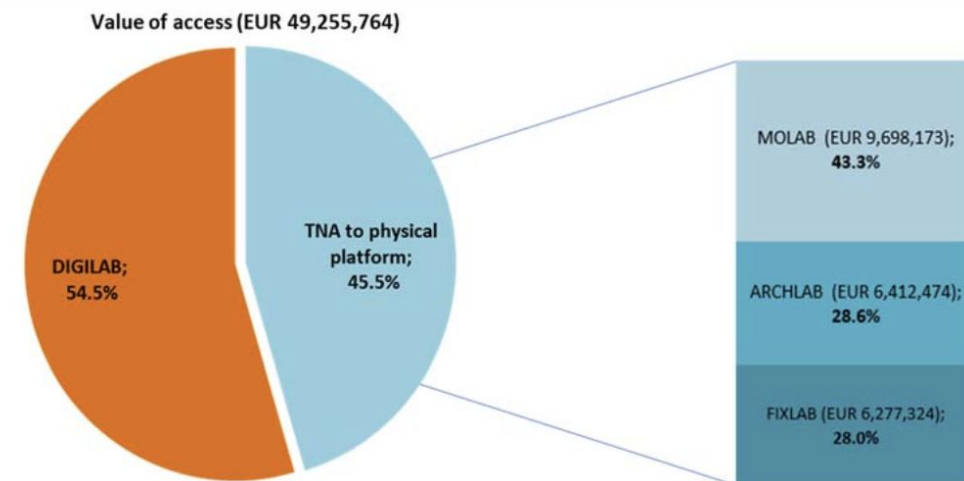


Figure 16. Breakdown of E-RIHS ERIC science production impact by main categories, %.



Secondary non-measurable wider impacts:

- Science diplomacy and impact on cultural policies
- Impact on access to culture and on cultural tourism.

A large crowd of people is shown from behind, filling the frame. The entire scene is bathed in a deep blue light, creating a monochromatic effect. The people are densely packed, and their heads and shoulders are visible, receding into the distance. The lighting is soft and even, highlighting the texture of their clothing and the density of the group.

Religious Studies

Alberto Melloni (UNESCO chair Religious Studies, RESILIENCE)

- Scholars whose work is crossed by or crosses the study of religions
- ESFRI recognised RS as a high potential strategic area
- Physical access is a must, but...
- Virtual access has many gaps (knowledge, integration, sustainability)
- Challenge: fragmentation (of knowledge, disciplines, points of access, strategies...)

**Religious
Studies:
who we are
and how
we work**

How
RESILIENCE
aims to
change the
community

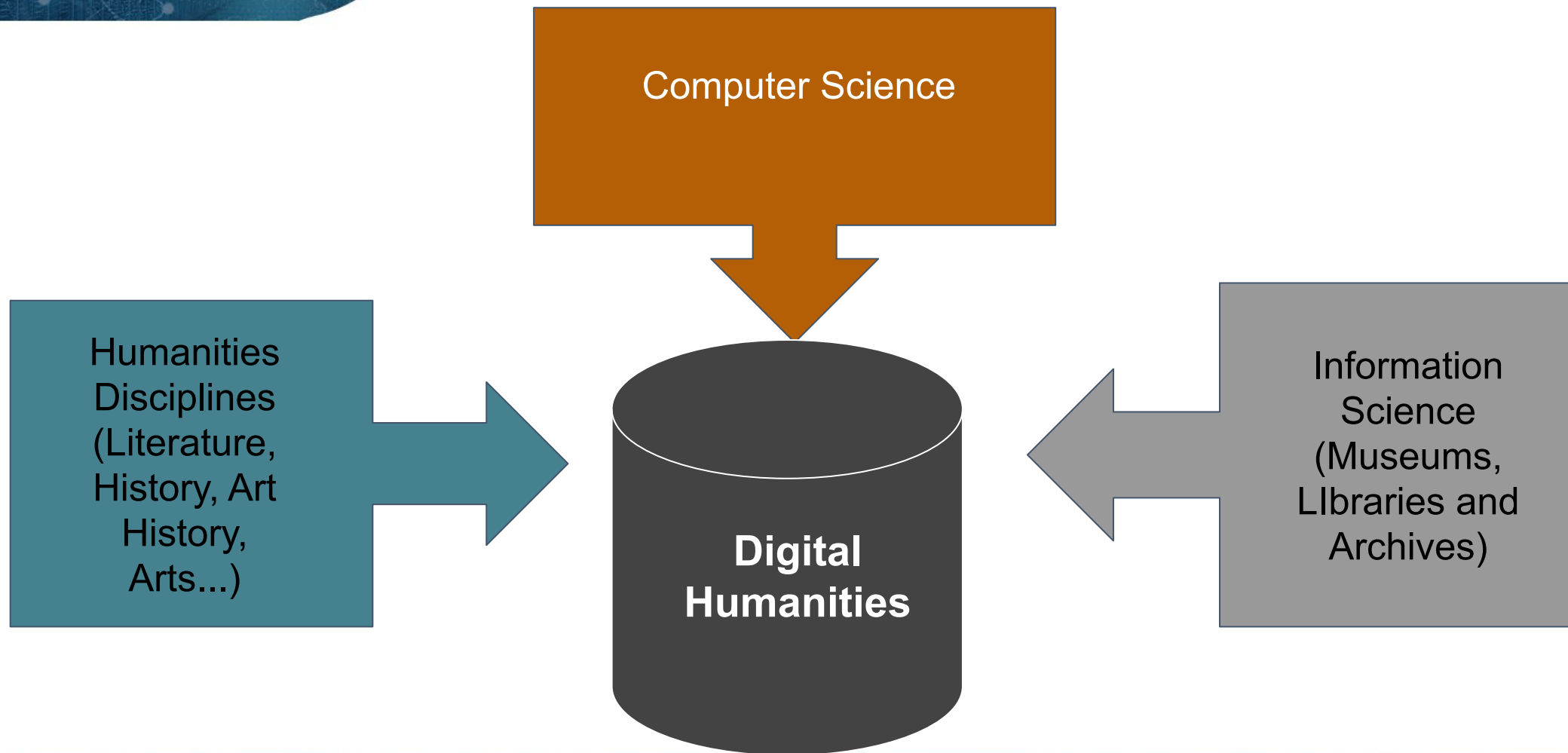
- Disciplines integrated within a common framework
- Ability to address global scholarship challenges and integrate new approaches into the ERA
- TNA through RESILIENCE (sources, facilities, experts)
- Digital turn in religious studies: digitisation of data and workflows
- Impact: reverse the religious climate change)

A large crowd of people, seen from behind, under a blue light. The image is a monochromatic blue-toned photograph of a dense crowd of people, viewed from a high angle looking down. The people are mostly seen from the back of their heads and shoulders, creating a sense of a large gathering or audience. The lighting is a deep, uniform blue, which gives the scene a digital or futuristic feel. The text is overlaid in the center of the image.

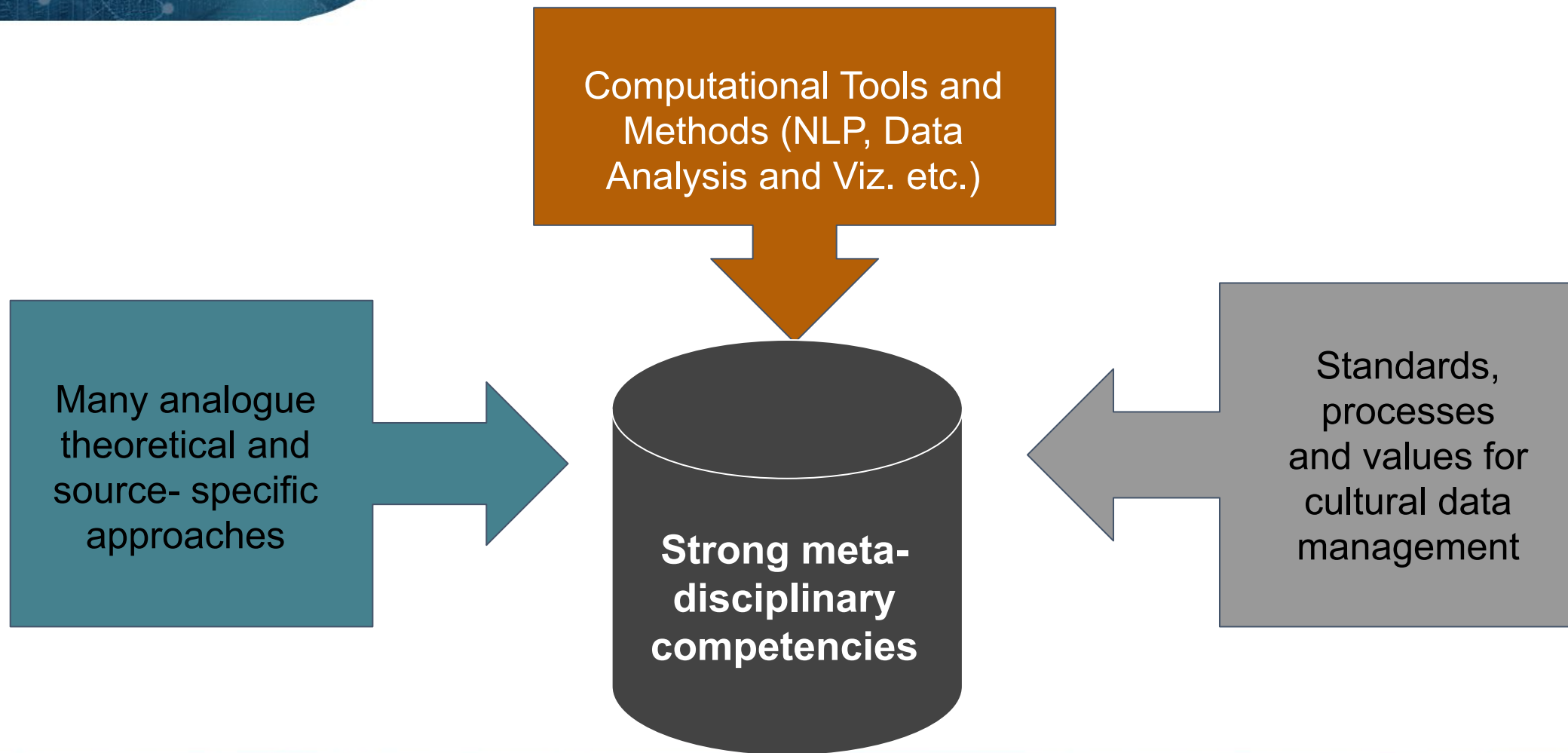
Digital Humanities Shaping interdisciplinary practices in Europe

Jennifer Edmond (DH@TCD, SHAPE-ID)

Digital Humanities, interdisciplinarity & the EOSC



Digital Humanities, interdisciplinarity & the EOSC



EOSC in Practice & You

Do you use data catalogues to find data?

0 1 7

- yes; but also go to researchers directly to get more inside info
- Google; ZivaHub; Europeana
- Currently no, because I collect the data.
- Google, CLARIN's Virtual Language Observatory
- Yes, but only in the most generic sense
- No, in general only otherwise known data sources
- data.gov.uk, world bank, EGI, CEDA, B2FIND,
- Nope, I use my Google-fu.
- Google dataset search
- Yes, and many
- Yes
- yes, occasionally
- Yes
- Yes
- Yes.
- Yes
- Yes

Do you use multiple catalogues?

0 1 2

- Currently not
- Yes, national + joint CESSDA,
- yes
- Yes, 5-10
- Yes, many - repositories, library catalogues, archives, etc.
- yes, CESSDA, DANs, gesis, eUROSTAT oecd
- Not really. Google provides everything I need
- Yes
- Yes
- Yes lots
- ABSOLUTELY
- Yes

EOSC in Practice & You

How do you keep track of relevant data (e.g. External tools, in writing (URL) or bookmarking in your browser...)

016

- Codebook + data management report + R markups :-)
- Collecting links
- Google docs, bookmarks, refworks
- bookmarking, downloading, subscribing to news
- Mostly bookmarking
- Copying into external tools and feeding my own specific databases
- Bookmarks, Zotero, lists on paper, google docs, depends on project and sources
- CLARIN Virtual Collection Registry
- Bookmarking and emails to coworkers.
- Bookmarking usually
- EXTERNAL TOOLS
- currently trying Zotero for that purpose
- DOIs for data! URLs, reference to paper
- there is too much to keep track of :P
- downloading, local storage, collect links (Zotero)
- bookmarking + paper :)

If there was an app that allowed you to make a virtual collection of your favourite data, would you be interested?

021

Yes



No



Imagine your research in 10 years time. Will you be performing interdisciplinary research?

021

Yes, I already do



Yes



No



Maybe



EOSC in Practice

Ten years from now



Slava Tykhonov
DANS-KNAW
CoronaWhy



Ami Saji
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Wrapping Up - EOSC in practice
From a research communities' perspective

Ron Dekker (CESSDA, SSHOC, EOSC EB)

Thank you!

Ron Dekker
ron.dekker@CESSDA.eu

Realising the **European**
 Open Science **Cloud.**



EOSChub

eosc-hub.eu
@EOSC_eu



project-freya.eu
@freya_eu



SSHOC
social sciences & humanities open cloud

sshopencloud.eu
@SSHOpenCloud



EOSC-hub, FREYA and SSHOC receive funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. #777536 #777523 and #823782.

