



Organise three international DARIAH workshops

Sally Chambers, Joke Daems, Marco Raciti

► To cite this version:

Sally Chambers, Joke Daems, Marco Raciti. Organise three international DARIAH workshops. [Technical Report] DARIAH ERIC; Ghent University (Gand, Belgique). 2019. hal-02449158

HAL Id: hal-02449158

<https://hal.science/hal-02449158>

Submitted on 22 Jan 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



D2.3 Organize three international DARIAH workshops

DESIR

DARIAH ERIC Sustainability Refined

INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures

Grant Agreement no.: 731081

Date: 31-12-2019

Version: 1.0



DESIR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731081.

Grant Agreement no.:	731081
Programme:	Horizon 2020
Project acronym:	DESIR
Project full title:	DARIAH-ERIC Sustainability Refined
Partners:	DIGITAL RESEARCH INFRASTRUCTURE FOR THE ARTS AND HUMANITIES GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS UNIVERSITEIT GENT UNIWERSYTET WARSZAWSKI FACULDADE DE CIENCIAS SOCIAIS E HUMANAS DA UNIVERSIDADE NOVA DE LISBOA CENTAR ZA DIGITALNE HUMANISTICKE NAUKE GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER INSTITUT NATIONAL DE RECHERCHE ENINFORMATIQUE ET AUTOMATIQUE KING'S COLLEGE LONDON UNIVERSITY OF GLASGOW KNIHOVNA AV CR V. V. I. HELSINGIN YLIOPISTO SIB INSTITUT SUISSE DE BIOINFORMATIQUE UNIVERSIDAD NACIONAL DE EDUCACION A DISTANCIA UNIVERSITY OF HAIFA UNIVERSITY OF NEUCHÂTEL
Topic:	INFRADEV-03-2016-2017

DESIR

INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures, Grant Agreement no. 731081.



Project Start Date:	01-01-2017
Project Duration:	36 months
Title of the document:	Organize three international DARIAH workshops
Work Package title:	Dissemination and Innovation
Estimated delivery date:	30-09-2019
Lead Beneficiary:	UGent
Author(s):	Sally Chambers [Sally.Chambers@UGent.be] Joke Daems [joke.daems@ugent.be]
Quality Assessor(s):	Marco Raciti [marco.raciti@dariah.eu]
Keywords:	Infrastructure, internationalisation, DARIAH Beyond Europe

Revision History

Version	Date	Author	Beneficiary ¹	Description
0.1	30.1.2019	Sally Chambers	UGent Stanford	Created first outline of report for discussion with the Stanford DARIAH Beyond Europe Team
0.2	1.3.2019	Joke Daems	UGent	Preparation of the draft of the Stanford section of the report
-	12.4.2019	Joke Daems Sally Chambers Quinn Dombrowski Glen Worthey Kathleen Smith	UGent & Stanford	Continued preparation of the Stanford section of the report
0.3	24.5.2019	Sally Chambers	UGent	First draft of the report shared with DARIAH, Library of Congress and Australian Teams
-	2.7.2019	Sally Chambers Abigail Potter Meghan Ferriter Kylie Brass Alexis Tindall Rowan Brownlee	UGent Library of Congress AAH & ARDC	Continued preparation of the Library of Congress and Australian sections of the report
-	6.8.2019	Joke Daems Sally Chambers Quinn Dombrowski Glen Worthey Kathleen Smith	UGent & Stanford	Further enhancement of the Stanford section of the report
	17.9.2019	Marco Raciti -	DARIAH	Further enhancement of the Library of Congress section of the report

¹ The DARIAH Beyond Europe workshop partners are included in the Revision History, even though they are not beneficiaries of the DESIR.

Version	Date	Author	Beneficiary ²	Description
0.4	15.10.2019	Joke Daems Sally Chambers Quinn Dombrowski Glen Worthey Kathleen Smith	UGent & Stanford	Finalisation of the Stanford section of the report
	23.11.2019	Sally Chambers Abigail Potter Meghan Ferriter Kylie Brass Alexis Tindall Rowan Brownlee	UGent Library of Congress AAH & ARDC	Continued preparation of the Library of Congress and Australian sections of the report
0.5	12.12.2019	Sally Chambers	UGent	Finalisation preparation of the Library of Congress and Australian sections of the report
0.6	27.12.2019	Sally Chambers	UGent	Finalisation preparation of the report
1.0	31.12.2019	Marco Raciti	DARIAH	Quality control and Final Submission

² The DARIAH Beyond Europe workshop partners are included in the Revision History, even though they are not beneficiaries of the DESIR.

Table of Contents

Executive Summary	7
1. Introduction	8
1.1 DARIAH Beyond Europe Workshop Series	8
1.2 DARIAH Beyond Europe Blog.....	9
1.3 DARIAH Beyond Europe Videos	9
2. Stanford Workshop	12
2.1 Aims and Objectives	12
2.2 Programme.....	12
<i>Keynote speakers</i>	13
<i>Knowledge Exchange Sessions</i>	14
<i>Group discussion on Sustainable Futures</i>	16
2.3 Outcomes from the Workshop.....	16
Library of Congress Workshop	20
3.1 Aims and Objectives	20
3.2 Programme.....	20
<i>Keynote speakers</i>	20
<i>Knowledge Exchange Sessions</i>	21
<i>Lightning Talks</i>	24
<i>General Discussions and Opportunities for Collaboration</i>	27
3.3 Outcomes from the Workshop.....	27
4. Australian Workshop	28
4.1 Aims and Objectives	28
4.2 Programme.....	29
<i>Australia-DARIAH Knowledge Exchange</i>	30
<i>Knowledge Exchange Sessions</i>	31
<i>Lightning Talks</i>	32
<i>Workshops</i>	35
4.3 Outcomes from the Workshop.....	35
5. Conclusion	37

Executive Summary

The aim of this report was to provide an overview of the three workshops that were organised at Stanford University, at the Library of Congress and at the National Library of Australia as part of the DARIAH Beyond Europe International Workshop Series within the DESIR project. The purpose of these workshops was to promote DARIAH tools and services to the wider community beyond Europe, to initiate collaborations, and above all to exchange knowledge and experience in digital scholarship on an international level.

With these three workshops, DARIAH has reached over 275 participants who were present during the events, as well as scores of viewers who have watched the DARIAH Beyond Europe videos and the hundreds of interactions that have taken place via the #DARIAHBeyondEurope Twitter Hashtag. Through the DARIAH Beyond Europe workshop series, DARIAH has broaden its global outreach significantly.

This report includes a number of ideas for potential collaboration opportunities that arose from the discussions during the workshop series, which will further be elaborated on in the DESIR Final Report. Originally envisaged as a one off series of three workshops, it seems that the DARIAH Beyond Europe initiative has not only increased DARIAH's visibility internationally, but has led to a DARIAH to reflect on its long-term approach to its international activities much more deeply.

Nature of the deliverable		
	R	Document, report
	DEM	Demonstrator, pilot, prototype
✓	DEC	Websites, patent fillings, videos, etc.
	OTHER	
Dissemination level		
✓	P	Public
	CO	Confidential only for members of the consortium (including the Commission Services)
	EU-RES	Classified Information: RESTREINT UE (Commission Decision 2005/444/EC)
	EU-CON	Classified Information: CONFIDENTIEL UE (Commission Decision 2005/444/EC)
	EU-SEC	Classified Information: SECRET UE (Commission Decision 2005/444/EC)

Disclaimer

DESIR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731081. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

DESIR

INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures, Grant Agreement no. 731081.



1. Introduction

As part of the DARIAH-DESIR project³, a series of three day workshops were organised in 2018 and 2019, one at Stanford University⁴, one at the Library of Congress⁵, and one at the National Library of Australia, allowing an exchange of ideas between the DARIAH community and Digital Arts and Humanities projects in the United States and Australia⁶.

The purpose of these workshops is to promote DARIAH tools and services to the wider community beyond Europe, to initiate collaborations, and above all to exchange knowledge and experience in digital scholarship on an international level.

This report provides an overview of the series of workshops, highlighting key outcomes.

1.1 DARIAH Beyond Europe Workshop Series

The purpose of these workshops is to promote DARIAH tools and services to the wider community beyond Europe, to initiate collaborations, and above all to exchange knowledge and experience in digital scholarship on an international level. Based on the Description of Work and the discussions with each of the local organisation teams, an overall framework for the workshop series was established, to ensure coherence across the workshop series, but at the same time flexible enough to enable for each workshop to be tailored to the local situation of the international hosts. Key elements of each workshop include: a welcome and introduction by a senior representative of the local host and the DESIR WP2 workshop organising team; an introductory keynote lecture introducing DARIAH by a Senior Representative of DARIAH-EU (e.g. Board of Directors) plus 1-2 high-profile local keynote speakers.

A core part of the programme was the organisation of 3-4 'Knowledge Exchange Sessions', the themes of which would be selected in close collaboration between the DESIR team and the local organisers. As the main objective of the workshop series is to initiate collaborations between the European DARIAH community and colleagues in the United States and Australia, and in particular to exchange knowledge and experience in digital scholarship in the arts and humanities on an international level, it was therefore important to find a way to encourage and stimulate a dialogue between the European and International colleagues, rather than simply listening to presentations. It is intended that these sessions, produce, as far as possible, concrete outcomes and are a catalyst for ongoing collaborations.

To provide a communication, dissemination and documentation platform for the international workshop series, the WP2 team set up a blog entitled 'DARIAH Beyond

³ <https://www.dariah.eu/activities/projects-and-affiliations/desir/>

⁴ <https://dbe.hypotheses.org/workshops/stanford>

⁵ <https://dbe.hypotheses.org/workshops/library-of-congress>

⁶ <https://dbe.hypotheses.org/workshops/australia>

Europe'. This blog, is hosted on Open Edition's Hypotheses Scholarly Blogging Platform, which is also a contribution from DARIAH France to DARIAH-EU. Furthermore, the idea of creating a series of short videos to audio-visually document the event was discussed. These videos, which could be published on the DARIAH YouTube Channel could include interviews with the organisers, speakers and the participants, extending the reach of the workshop for those unfortunately unable to attend.

To complement the DARIAH Beyond Europe blog, a series of announcements about the workshops were published via the DARIAH-EU website, twitter accounts and newsletters in May 2018. This included a general announcement about the entire workshop series the DARIAH-EU website and on Twitter, and well as individual announcements about the Stanford (website and twitter) and the Library of Congress (website and twitter) workshops.

1.2 DARIAH Beyond Europe Blog

To provide a communication, dissemination and documentation platform for the international workshop series, the WP2 team set up a blog entitled 'DARIAH Beyond Europe'⁷. This blog is hosted on Open Edition's Hypotheses Scholarly Blogging Platform⁸, which is also a contribution from DARIAH-FR to DARIAH-EU. The DESIR WP2 team completed the application for a Hypotheses blog in February - which is reviewed by a scientific committee prior to approval - and from March 2018 began, together with the local organisation teams, to populate the blog. Individual pages were set up for each workshop with a description of the program, the keynotes, registration and practical information. The blog also redirects to the community notes, taken collaboratively by participants and provides links to keynotes' videos. Furthermore, the program is enriched with community notes of each session, giving a glimpse of the discussions that took place.

1.3 DARIAH Beyond Europe Videos

Audio-visual material is available for the three workshops on the DARIAH-EU YouTube channel⁹. More specifically, a short video-recap allows viewers to get some insights of the challenges and topics discussed. Alongside these highlights, full keynotes have also been filmed, extending the reach of the workshop for those unable to attend. Videos have been disseminated through DARIAH-EU communication channels (Twitter, website, newsletter) and can also be found in the above-mentioned DARIAH Beyond Europe blog. It should be noted that due to some institutional restrictions, in a few cases videos have been released

⁷ <https://dbe.hypotheses.org/>

⁸ <https://hypotheses.org/>

⁹ https://www.youtube.com/channel/UCeQpM_gUvNZXUWf6qQ226GO/featured

several months after the event. A playlist for all the DARIAH Beyond Europe: International Workshops video has been created¹⁰.

A full list of videos is available below:

Stanford University:

- Sustainable Infrastructures for Digital Arts & Humanities (Stanford University):
<https://www.youtube.com/watch?v=OgCOFxyyYpc&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=2&t=74s>
- Quinn Dombrowski: "Cowboys and Consortia: Thoughts on DH Infrastructure" (Stanford University):
https://www.youtube.com/watch?v=0vkHutf_UxY&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=3&t=0s
- Mark Algee Hewitt: "Humanities, Augmented: Ecologies of Digital Research Practices" (Stanford Univ.):
<https://www.youtube.com/watch?v=BhDB3laLZNw&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=4&t=0s>

Library of Congress:

- Collections as Data: Digital Scholarship in Arts & Humanities (Library of Congress):
https://www.youtube.com/watch?v=4xTm_Xal8NU&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=5&t=13s
- Toward a Research-Ready Scholarly Infrastructure:
<https://www.youtube.com/watch?v=a4ui58AO3VY>
- Collections as Data: Digital Collections for Emerging Research Methods:
<https://www.youtube.com/watch?v=sHellpNL68A&t=6s>

Australian Workshop:

- Humanities, Arts and Culture Data Summit and 3rd DARIAH beyond Europe Workshop (NLAustralia):
<https://www.youtube.com/watch?v=SI3u9nu7YFY&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=6&t=14s>
- Jennifer Edmond: The DARIAH Big Idea (NLAustralia):
<https://www.youtube.com/watch?v=GRd0IDpuNIA&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=7&t=0s>

¹⁰ <https://www.youtube.com/playlist?list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP>

- Sally Chambers: DARIAH within and beyond Europe: Connecting with Arts & Humanities researchers (NLA):
<https://www.youtube.com/watch?v=aAPJ7FupHtg&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=8&t=0s>
- Big Ideas: Transformations (NLAustralia):
<https://www.youtube.com/watch?v=7f1VZbEOr44&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=9&t=0s>
- Big Ideas: Intersections (NLAustralia):
<https://www.youtube.com/watch?v=QNNcM6nQCIM&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=10&t=0s>
- Big Ideas: Skills and Workforce Futures (NLAustralia):
<https://www.youtube.com/watch?v=RimXqdWuejE&list=PLfWGHlKSlx0VVkpjSko39FXWdn5am8cGP&index=11&t=0s>

2. Stanford Workshop

- **Dates and Venue:** 13-15 September 2018, Green Library, Stanford University, Stanford, CA.
- **Attendees:** 120 registered; estimated 20-30 unregistered drop-ins
- **Workshop title:** Sustainable Infrastructures for Digital Arts & Humanities: An International DARIAH Exchange
- **Workshop organisers:** Joke Daems, Ghent University, Sally Chambers, Ghent University, DARIAH-DESIR; Glen Worthey, Stanford Libraries; Kathleen Smith, Stanford Libraries

2.1 Aims and Objectives

The goal of this 3-day conference was to highlight ongoing work in DARIAH and how these projects and initiatives could potentially intersect with DH initiatives in the North American academic community, particularly on the West Coast of the United States. In addition to promoting DARIAH tools and services, the objectives were to initiate collaborations and to exchange knowledge and experience in digital scholarship on an international level. The topic of the conference was '**Sustainable Infrastructures for Digital Arts & Humanities**', and, throughout the sessions, participants were encouraged to critically reflect on the sustainability of current and envisioned DH solutions.

2.2 Programme

To ensure an optimal exchange of thoughts and information, the programme consisted of a combination of inspirational keynote speakers and knowledge exchange sessions on four topics of mutual relevance to the DH community in DARIAH and on the West Coast of the United States: corpus management; text and image analysis; geohumanities; and music, theater and sound studies. There was an additional dialogue session on Digital Arts & Humanities between Glen Worthey (Stanford) and Frank Fischer (DARIAH) on day 2, and a group discussion on sustainable futures on day 3. The conference ended with three parallel workshops (on word vectors, analyzing email with ePADD, and IIF & Mirador) to allow participants to gain hands-on experience. Although the objectives of the workshop included connecting members of the academic community on the West Coast of the United States, one challenge was providing funding for travel and accommodations. For budgetary reasons, the majority of speakers were therefore drawn from the Stanford community, although workshop attendees came from a wider geographic area.

A detailed overview of the programme can be found on the DARIAH Beyond Europe website¹¹.

Keynote speakers

Abstracts can be found on the website¹². All keynote speeches were filmed¹³ to be able to share insights with the broader international DH community and continue the debate after the conference:

Quinn Dombrowski worked in Research IT at UC Berkeley at the time of the workshop, and currently works as Academic Technology Specialist at Stanford University. During her talk 'Cowboys and Consortia: Thoughts on DH Infrastructure', she shared her experiences with setting up DH infrastructures in the US and the related issues with maintaining such infrastructures, drawing on large consortial initiatives like Project Bamboo (2007-2012) and "cowboy" projects like the DiRT (Digital Research Tools) directory. While there have been successful individual efforts, scaling up these initiatives and making them sustainable remains challenging. This keynote sparked the question whether (and if so, how) DARIAH-like initiatives could take shape in the US and support more sustainable solutions in the future.

Ge Wang is a Stanford University Professor of Music and Computer Science as well as a designer, inventor, and director. During the conference, he presented his book *Artful Design: Technology in Search of the Sublime*, raising awareness about the essential relationship between aesthetics and engineering, art and design. Technology, he argues, does not and should not just answer our needs, but reflect our values as well. Excellent design is sustainable by nature since it incorporates the underlying values and needs of those who make use of it.

Mark Algee-Hewitt is Assistant Professor of English at Stanford University and Director of the Stanford Literary Lab. His presentation 'Humanities, Augmented: Ecologies of digital research practices' framed Digital Humanities as a discipline augmenting scholarship rather than making it virtual. He discussed setting up sustainable research practices to handle the difficulties of combining the analog and the digital.

¹¹ <https://dbe.hypotheses.org/workshops/stanford/program>

¹² <https://dbe.hypotheses.org/workshops/stanford/keynotes>

¹³ <https://dbe.hypotheses.org/workshops/stanford/videos>

Knowledge Exchange Sessions

*Each session had speakers from both DARIAH and the US present their work and its relationship to the issues of sustainable infrastructures in relation to the topic of the session, followed by a discussion with the audience. Community notes were made by the audience during the talks and discussions. Links to those community notes can be found in the programme¹⁴. Topics that recurred throughout the sessions were the need for **training, interoperable standards for disciplinary data, and bringing together researchers and developers.***

Digital Research Corpus Management

Jan Brase (State and University Library Göttingen, DARIAH-DE) discussed TextGrid as a successful and sustainable project for collaborative editing, research, and archiving. Dries Moreels (Ghent University Library, DARIAH-BE) presented IIIF as a standard in corpus management to ensure digital assets remain accessible for as long as possible. Scott Bailey (Stanford Libraries) highlighted the challenges of managing large corpora over long periods of time with a variety of media and license agreements and argued that documentation is essential for sustainability. Mark Algee-Hewitt (Stanford University) added that the engineering challenges of storing, moving, and managing large datasets and corresponding metadata eat into the time otherwise spent on answering scholarly questions.

One of the key points in the discussion was the differences between the situation in the US, where short-term projects are the norm, and in the EU, where long-running projects are more common, and the fact that these differences are likely to have an effect on issues such as standardisation, integration, infrastructure, and sustainability. It was established that DARIAH welcomes US researchers' and groups' engaging with their projects and products. Other ideas for sustainability included embedding research project management and related activities into humanities pedagogy, and improving data sharing and reproducibility by documenting everything thoroughly and publishing as much data as possible.

Text & Image Analysis

Steffen Pielström (University of Würzburg, DARIAH-DE) introduced the concept of DARIAH working groups as a form of sustainable infrastructure by presenting the work done by the DARIAH Working Group on Text & Data Analytics¹⁵. Javier de la Rosa (Stanford Libraries) & Eun Seo Jo (Stanford Dept. of History) discussed the importance of teaching for

¹⁴ <https://dbe.hypotheses.org/workshops/stanford/program>

¹⁵ <https://www.dariah.eu/activities/working-groups/text-and-data-analytics/>

sustainability and Regan Murphy Kao (Stanford Libraries) explained how IIIF can be used in teaching by bringing archival resources to the classroom.

From the discussion, a key issue related to sustainability was that developing sustainable solutions is often not a priority for individual researchers, and that the users' expectations can be very different from the developers' goals. A possible solution is to engage users in tool development. Infrastructures such as DARIAH can help create and engage communities. It is important to bring together scholars with developers on a regular basis (or to have scholars that are also developers), for example during hackathons.

GeoHumanities

Johannes Scholz (Graz University of Technology, DARIAH-AT) talked about the ubiquity of geohumanities and the importance of language and ontologies as the basis of communication. He presented the work carried out by the DARIAH GeoHumanities Working Group¹⁶ to establish a linked open data registry and to provide e-schooling for the DARIAH Teach platform¹⁷. **Katie McDonough (Stanford Libraries and Department of History at the time of the workshop)** highlighted some of the questions related to sustainability: how long will software work and how much work will it take to maintain evolving technology within changing institutions? **Jack Reed (Stanford Libraries)** presented the Stanford geospatial infrastructure EarthWorks¹⁸, an implementation of GeoBlacklight¹⁹, to improve access to geospatial data and help preserve it by using interoperable standards.

The discussion further stressed the importance of standards for data and interoperability between both commercial and non-commercial systems to allow for a sustainable exchange of data. Related questions included how to encourage people to adopt standards or document their work, and how to connect researchers across continents and institutions so they can exchange methods for answering similar research questions. Funding insecurity poses a risk to sustainability, and the question was raised whether university libraries could and should take on the role of infrastructure support.

Music, Theater, and Sound Studies

Anna Lawaetz (Royal Danish Library, DARIAH-DK) presented the DARIAH Teach course on Sound Studies²⁰ and discussed the specific challenges for collecting and presenting

¹⁶ <https://www.dariah.eu/activities/working-groups/geohumanities/>

¹⁷ <https://teach.dariah.eu/>

¹⁸ <https://library.stanford.edu/search-services/earthworks>

¹⁹ <https://geoblacklight.org/>

²⁰ <https://teach.dariah.eu/course/view.php?id=27>

materials related to sound and performance studies as opposed to text. All three speakers emphasized that infrastructures in arts and humanities should also support the 'arts'. **Jaroslav Kapuscinski (Stanford Department of Music)** showcased the Noh Theater Platform currently in development at Stanford Libraries, which presents and explicates the complexity of the different layers of a theatrical performance. **Eleanor Selfridge-Field (Stanford Department of Music)** discussed the digital repository of J.S. Bach. Many of the issues she encountered in 1984 are surprisingly still relevant today: questions about encoding and software compatibility, definition of open source, international collaboration, etc. The emerging DARIAH Working Group on Theater Studies and Theatralia Digitisation²¹ was discussed with interest.

During the discussion, questions were raised about the reusability of tools developed for specific projects, how to determine the priorities of a project, how to ensure maintenance of data given the changing nature of technology, and how to encode different registers of artistic practice.

Group discussion on Sustainable Futures

The group discussion focused on two central themes: what sustainability means and how it is affected by funding (or lack thereof) and what we consider to be the nature of 'infrastructures'. Differences in economic models between Europe and the US were highlighted - for example, the greater centralisation and higher levels of government funding in Europe versus the more privately-based and scattered funding in the US. Likewise, initiatives were compared to find common ground (e.g., Software Carpentry²² compared to DARIAH Teach as a potential infrastructure). Key differences identified are the public funding in Europe for infrastructures such as DARIAH compared to US reliance on professional organisations rather than infrastructures. The inter-relationship between DARIAH and the various Digital Humanities organisations affiliated with the Alliance of Digital Humanities Organizations (ADHO), such as the Association for Computers and the Humanities (ACH), based in the US, was discussed.

2.3 Outcomes from the Workshop

The workshop succeeded in bringing together about 150 people with a DH background from DARIAH and the West Coast of the United States. A sentence often heard was 'I did not know this existed', indicating that the workshop fulfilled the crucial international outreach as intended.

²¹ <https://calenda.org/435713>

²² <https://software-carpentry.org/>

Collaboration and communication are much easier to facilitate during in-person events than afterwards. The hashtag “#DARIAHBeyondEurope” was in heavy use during the workshops, but less use subsequently, even as activities involving workshop participants continued, and continued to receive publicity. In some sense, this is a sign of success, suggesting that US-based scholars feel comfortable simply working with DARIAH, without feeling the need to specifically label it as something unique through use of that hashtag.

At the end of workshop 1, participants started a mailing list, and for a time, contributed to the DARIAH Beyond Europe blog. As a concrete next step, workshop 1 participants put out a broader call for interest from colleagues in the US, gathering information about which DARIAH working groups other US-based scholars would like to participate in, and Francesca Morselli, the DARIAH Working Group coordinator, attempted to connect these scholars with the working groups, with mixed results. The challenge of getting working group coordinators to respond to membership requests points to an area of working group management that could benefit from more streamlined processes and/or stronger norms and expectations about working group responsiveness.

Following the first workshop, more US-based institutions have been adding their courses to the DH Course Registry²³. To spark an even bigger international discussion and to share the ideas from this first DBE workshop with the rest of the world, four videos²⁴ were made: an event video and videos of each of the three keynotes. These materials were published after the workshop, and provided an opportunity each time to reignite discussions of DARIAH Beyond Europe on social media.

Shortly after the first workshop, the organizers submitted proposals for the Digital Humanities 2019 (DH2019)²⁵ conference in Utrecht, and the 2019 Association for Computers and the Humanities (ACH)²⁶ conference. Both were accepted to their respective conferences, and - in conjunction with the DARIAH sponsor table at the Utrecht event - provided an opportunity to share visually-attractive small-format cards with information about how scholars beyond Europe (and beyond the United States and Australia) can get involved. Infrastructure was a recurring theme at the conference, particularly as it followed a meeting of DH scholars from Africa who are themselves thinking about what kind of infrastructure to develop for their community.

²³ <https://dhcr.clarin-dariah.eu/courses/>

²⁴ <https://dbe.hypotheses.org/workshops/stanford/videos>

²⁵ <https://dh2019.adho.org/>

²⁶ <http://ach2019.ach.org/>

DARAH Beyond Europe Blogposts

The following DARAH Beyond Europe Blogposts were published as a follow-up to the Stanford Workshop:

- Dombrowski, Q. (2018) Kidnapped by Cowboys: Taking the Next Steps from “DARAH Beyond Europe Workshop 1”²⁷, Published, 15.9.2018
- Dombrowski, Q. (2018) A Cross-Atlantic Meeting of Medievalists²⁸, Published: 14.11.2018
- Dombrowski, Q. (2018) Engaging with DARAH through MESO²⁹. Published: 19.11.2018

DARAH Beyond Europe Posters

Representatives from all three Workshops, together with DARAH Directors, successfully submitted a DARAH Beyond Europe poster³⁰ to the Digital Humanities Conference 2019 (DH2019) that took place in Utrecht on 9-12 July 2019. With approximately 1000 participants, it is one of the major events in Digital Humanities worldwide and it represents a perfect opportunity for disseminating project results. The aim of the poster was to reflect on some of the Workshops’ key outcomes, as well as some desired future directions (chief among them, the need to go even further “beyond Europe” -- into the Global South). The poster acknowledged the significant investment from the European Commission and member countries and its yield of a robust set of technical and social infrastructure, ranging from working groups, various registries, pedagogical materials, and software to support diverse approaches to digital humanities scholarship; more specifically, it addressed the idea that, while funding and leadership of DARAH to date has come from countries in, or contiguous with, Europe, the needs that drive its technical and social development are widely shared within the international digital humanities community at large. The poster has been deposited in the DARAH Collection in the HAL Open Access Repository³¹.

²⁷ <https://dbe.hypotheses.org/1479>

²⁸ <https://dbe.hypotheses.org/1899>

²⁹ <https://digitalhumanities.stanford.edu/engaging-dariah-through-meso>

³⁰ <https://dev.clariah.nl/files/dh2019/posters/1029.pdf>

³¹ Dombrowski, Q., Fischer, F., Edmond, J., Tasovac, T., Raciti, M., Chambers, S., Daems, J., Hacıgüzeller, P., Worthey, G., Smith, K.M., Potter, A., Ferriter, M., Brass, K., Brownlee, R and Tindall, A. (2019) DARAH Beyond Europe. *Digital Humanities 2019*, July 2019, Utrecht, Netherlands. [.hal-02317079](https://hal.archives-ouvertes.fr/hal-02317079)

Additionally, the DESIR WP2 Team presented a poster, entitled ‘DARIAH Beyond Europe: an international exchange of ideas’ at the DARIAH-EU Annual Event, which took place in Paris on 23-24 May 2018. This poster was also DARIAH Collection in the HAL³².

ACH Roundtable

At the 2019 ACH conference, several of the workshop participants -- as well as others who had become involved through workshop follow-up activities -- organized a roundtable discussion titled, “Whose Infrastructure Is It Anyway?” Its purpose was to help the digital humanities community in the U.S. get “unstuck” with regard to how we might organize ourselves in such a way as to engage with DARIAH collectively (that is, as organizations), rather than simply as individuals (e.g., through Working Groups, the Course Registry, etc.). Presentations and a lively discussion among participants led to the idea that organizational ties between the U.S. and DARIAH are indeed desirable, but that groups as diverse as ACH itself, the Digital Library Federation (DLF), and the Council on Library & Information Resources (CLIR), as well as — more broadly — organizations that bring together the wide variety of American institutions (such as the American Association of Community Colleges) all have possible claims as the “best” place to create international organizational collaborations with DARIAH. Although the discussion was inconclusive, the energy and ideas certainly left the participants enthusiastic to continue it, especially together with DARIAH leadership.

The organizers of the Stanford workshop have continued to meet every 4-6 weeks for the last year, not only about the workshop, but continuing an ongoing conversation about how DARIAH could support DH work at their institution. Natasha Ermolaev (from workshop 2) and Thea Lindquist (post-workshop participant) have at times joined these calls as well. Since the workshop, Quinn Dombrowski has been advising Frank Fischer and his team on the DARIAH Marketplace, based on her experience with the DiRT directory. She has also involved Geoffrey Rockwell, whose TAPoR has inherited the DiRT listings after that project ended, in this role. The DARIAH Marketplace group plans to submit a proposal for a forum at DH 2020 to open up discussions with a broader community about the roles and risks of directories. Quinn is also working with colleagues in Europe on developing a DARIAH working group proposal on the topic of multilingual DH, in parallel to a Special Interest Group (SIG) proposal to ADHO on the same topic. Quinn has been working with Toma Tasovac and Erzsébet Tóth-Czifra on adapting some of the DH workshop materials developed at Stanford into the new DARIAH Campus initiative. And, finally, Quinn has joined the DARIAH OpenMethods blog as a co-editor.

³² Chambers, S., Hacıgüzeller, P., Daems, J and Raciti, M. (2018) DARIAH Beyond Europe: an international exchange of ideas. *DARIAH-EU Annual Event 2018*, May 2018, Paris, France. ([hal-01855684](https://hal.archives-ouvertes.fr/hal-01855684))

Library of Congress Workshop

- Dates and Venue: 2- 4 September 2018, Library of Congress, James Madison Memorial Building, Washington D.C.
- **Attendees:** 64 registered plus estimated 10-20 unregistered drop-ins
- **Workshop title:** Collections as Data: Digital Scholarship in Arts and Humanities
- Workshop organisers: **Sally Chambers**, Ghent University, DARIAH-DESIR, **Abigail Potter**, Library of Congress and **Meghan Ferriter**, Library of Congress

3.1 Aims and Objectives

The DARIAH Beyond Europe workshop at the Library of Congress was entitled, **Collections as Data: Digital Scholarship in the Arts and Humanities: An International DARIAH Exchange**. The workshop was linked to the Library of Congress 'Collections as Data' event series to benefit from the existing audience of the event series and therefore helped to maximise impact. This 3-day conference highlighted ongoing work in the European Digital Research Infrastructure for Arts and Humanities (DARIAH) and how these projects and initiatives could potentially intersect with DH initiatives in the North American academic community, particularly on the East Coast. The purposes of the conference were to promote DARIAH tools and services, to initiate collaborations, and above all to exchange knowledge and experience in digital scholarship on an international level. **Conference sessions**³³ focused on digital newspapers and text analysis, web archives, and public humanities.

3.2 Programme

A detailed overview of the programme can be found on the DARIAH Beyond Europe website.

Keynote speakers

DARIAH Board of Directors - *DARIAH: Building a Research Infrastructure for the Arts and Humanities*, Toma Tasovac (DARIAH-EU Board of Directors)

Opening Keynote: *Posting Signs and Filling Potholes on the Information Superhighway: Toward a Research-Ready Scholarly Infrastructure*³⁴, Jason Rhody, Program Director: Digital Culture, Social Science Research Council (SSRC)

³³ <https://dbe.hypotheses.org/workshops/library-of-congress/program>

³⁴ <https://dbe.hypotheses.org/workshops/library-of-congress/keynotes>

Closing Keynote: *Collections as Data: Digital Collections for Emerging Research Methods*³⁵, Laurie Allen and Stewart Varner. This was followed by a hands-on session: Collections as Data: diving deeper with Laurie Allen and Stewart Varner.

Knowledge Exchange Sessions

Knowledge Exchange session 1: Digital Newspapers & Text Analysis, facilitated by Abigail Potter, Library of Congress | Community Notes³⁶

- **European perspective:** Mikko Tolonen, University of Helsinki, Finland and Antoine Doucet, University of La Rochelle, France
- **US perspective:** Deborah Thomas, Program Manager, National Digital Newspaper Program, Library of Congress

Abigail Potter, Senior Innovation Specialist with the Library of Congress Digital Innovation Lab moderated the first session.

From the European point of view, **Mikko Tolonen**, Assistant Professor at the Department of Digital Humanities, University of Helsinki, gave an overview of the current state of digital newspaper work in Europe. In his speech, Mikko Tolonen listed the main challenges that affect the development of digitized newspapers in Europe, which notably are funding (leading to outsourcing) and a Problematic OCR. Nevertheless, Mikko highlighted some positive aspects such as the improvement of quality control, a growing collaboration between libraries and research and the appearance of labs to work on digitised newspapers. Mikko pointed out that access to data and help with the material means to analyse the data (computing hours based on reliable service, ways to store, share and develop research results, virtual and actual workspaces) are what researchers working on digitised newspapers need from infrastructures.

In addition, Mikko draw attention to the need of a common voice to questions of copyright and implementation of fair use clauses in the use of digitised newspapers. He also highlighted that the Open Access movement has been somehow successful at the European Union level with the launch of the Plan S, but, with respect to data and data-availability, much more is needed.

Antoine Doucet, Professor of Computer Science at the University of La Rochelle, presented the Horizon 2020 funded project NewsEye³⁷ which aims at developing tools and methods for effective exploration of digital newspapers by means of new technologies. In particular,

³⁵ <https://dbe.hypotheses.org/workshops/library-of-congress/keynotes>

³⁶ <https://docs.google.com/document/d/1grzrCdWVIVkIT2w4jxCirOb3iMUVBji8fclQkR4rRyo/edit?usp=sharing>

³⁷ <https://www.newseye.eu/>

the project tries to combine the skills of librarians, digital humanists and computer scientists to provide enhanced access to historical newspapers for a wide range of users and overcome the current challenges: difficult exploration, little support for quantitative analysis, low quality and not adequate tools. The project, will result in significant scientific advances, helping to significantly reduce the noise and providing tools for quantitative analysis.

Deborah Thomas, Program Manager at the LoC, presented the National Digital Newspaper Program, a project started in 2003 to create and maintain a digital archive of significant historic newspapers published in the US, which led to the launch of the website Chronicling America which now contains more than 14 millions pages online.

Knowledge Exchange session 2: Infrastructural Challenges for Public Humanities, facilitated by Christophe Verbruggen, Ghent University (including coffee @ 11:00) | Community Notes³⁸

- **Public Humanities at the Library of Congress:** Meghan Ferriter, LC Labs, Library of Congress
- **European perspective:** Fien Danniau, Institute of Public History, Ghent University
- **US perspective:** Stephen Robertson, Roy Rosenzweig Center for History and New Media

The second session, chaired by **Professor Christophe Verbruggen, Director of the Ghent Centre for Digital Humanities**, was centered around Public Humanities.

Meghan Ferriter, Senior Innovation Specialist at the Library of Congress, described how the Library enables transformational experiences by connecting users to its digital collections. Core values in this respect are imagination (challenge the usual ways of thinking, finding small ways to provoke new use, serendipity, finding new ways of connecting users with collections), appropriate approaches (methods, tools and practices which could be scaled up and made sustainable and the Importance of the sustainability of documentation) and invitation & access (how to learn from people working on other projects and vice versa). In conclusion, Meghan presented By the People³⁹, the crowdsourcing platform of the Library of Congress for full text transcription and tagging.

Fien Danniau of the University of Ghent explored the challenges of Public Humanities, and in particular Public History. She pointed out that public history offers a chance of focusing on the process of creating knowledge for the wider community and enhancing historical thinking, which is different from the output driven approach used by researchers. Despite

³⁸ https://docs.google.com/document/d/1B9V8DBJ9V7SNif_ZKN8MSa4bAa6ywJ4Emq_ajrioW0/edit?usp=sharing

³⁹ <https://crowd.loc.gov/>

the increasing expectations from policy makers, many unsolved questions remain. Fien made the example of Europeana, which allows to explore more than 58 million objects, but if fails to answer questions about who is using the portal and why and, on such a big scale, it could also be argued what public is being served. She also stated the difficulty of engaging with the public at a transnational level. She also added that many projects take a step further by involving a geospatial dimension, such as the participative mapping project of De Krook, the new Public Library and Digital Innovation Centre in Ghent. As a conclusion, Fien noted that in terms of spaces for public humanities, the shift from an individual paradigm to a collaborative one is far from complete.

Stephen Robertson of the Roy Rosenzweig Center for History and New Media (RRCCHNM) introduced the topic from the perspective of the United States. He explained the concept of Digital Public Humanities, which can be presumed from the mission of the RRCCHNM, which is to use digital media and computer technology to democratize history: to incorporate multiple voices, reach diverse audiences and encourage popular participation in presenting and preserving the past.

Knowledge Exchange session 3: Using web archives in humanities research, facilitated by Sally Chambers, Ghent University | Community Notes⁴⁰

- **European perspective:** *How to keep born digital alive: web archiving and digital humanities in the post-history period*, Kees Teszelszky, National Library Netherlands
- **US perspective:** *Library of Congress Web Archiving*, Abigail Grotke, Web-archiving Team Lead, Library of Congress
- **International perspective:** *IIPC – 15 Years of Collaborative Web Archiving*, Olga Holownia, International Internet Preservation Consortium (IIPC)

Kees Teszelszky, National Library Netherlands, gave a short history of web archiving efforts in Europe and described the difficult situation in terms of copyright and legal issues, with the lack of a legal deposit law that severely restrict web archiving efforts. The situation is often characterised by the lack of cooperation between libraries, archives and research institutions. Furthermore, there are not so many transnational institutions dealing with webarchiving. A particular focus was given to the situation in the Netherlands, in which first efforts began only in 2007, despite being one of the first countries to start websites under the domaine nl in the early '90s. In conclusion, he remarked the importance of collaborative work in this domain and the value of analogue work.

⁴⁰ <https://docs.google.com/document/d/1Xk5ArMJJ-zsfUEVww9IT4W7ww1bLujO9RjMakDzapp0/edit?usp=sharing>

Abigail Grotke, Library of Congress gave an overview of the current situation in the United States, which landscape is also characterised by the absence of a legal deposit. Efforts of web archiving at the Library of Congress started in 2000. Types of collections focus mostly around the following subjects: U.S.A. election campaign websites, political science, folklore, comics, economy and business. One of the objectives in the future is to make web archives datasets available, as processing the amount of data is quite challenging. In conclusion, Abigail presented the Library of Congress digital strategy, which pillars are to ensure enduring access to content, maximise use of content and support emerging styles of research.

Olga Holownia, International Internet Preservation Consortium (IIPC)⁴¹ introduced which represents organisations from over 45 countries with the aim of acquiring, preserving and making accessible knowledge and information from the Internet for future generations. Members include national, regional and university libraries, audiovisual institutions, archives, service providers, NGOs. IIPC makes available a list of tools for webarchiving, as well as training and documentation material. In conclusion, Olga indicated some ideas for partnerships and outreach: engage and support researcher involvement, raise awareness of IIPC and web-archiving including the DH Community, create sustainable relationships and create an inventory for web archiving resources.

Lightning Talks

Two sessions were dedicated to lightning talks to present projects or key points of research for members of the audience. The speakers and topics included:

1) Jan Brase; TextGrid⁴²

TextGrid is a virtual research environment that allows Humanities scholars to edit, store and publish their digital editions and data in a sustainable way. TextGrid is part of the DARIAH-DE Research Infrastructure. Target groups are scholars of the Arts and Humanities, using TextGrid for their research projects, developers, adapting TextGrid tools and services for specific scholarly needs and academic institutions, for storing or linking data.

⁴¹ <http://netpreserve.org/>

⁴² <https://textgrid.de/en/>

2) Jessica Richardson Smith; Wymer's D.C. Database⁴³

Wymer's D.C. Database is a digital mapping tool designed to contextualize the images of the John P. Wymer Photograph Collection through a geo-spatial lens. The collection features 4,000 street photography images of Washington, D.C., taken between 1948 and 1952 as a hobby project by amateur photographer John Wymer. Wymer's D.C. allows users to browse the photographs overlaid onto their modern-day equivalent image via Google Streetview and explore the city as Wymer saw it in the mid-twentieth century.

3) Jim Salmons; Citizen science

The presentation of Jim Salmons focused on the dynamics of citizen science and citizen scientists, who are members of the public involved in the full range of research activities engaged in designing and conducting studies.

4) Eric Johnson; The Miranda Digital Asset Platform⁴⁴

Eric Johnson presented a project started at the Folger Shakespeare Library, the Miranda Digital Asset Platform, which, by the end of 2019, will contain virtually all of the Folger's publicly available digital assets (text, images, audio and video recordings, databases). The platform will also host digital exhibitions, publications, and software applications.

5) Krista Goff; Nested nationalism⁴⁵

Krista Goff presented her research project *Nested Nationalism: Slow Violence and Ethnic Conflict in the (post-) Soviet Caucasus*, which uses different varieties of source bases (oral histories, maps, documents) to examine how minority groups within the USSR experienced violence and state suppression in mid-20th century.

6) Matthew Hiebert; German History in Documents and Images⁴⁶

German History in Documents and Images (GHDI) is a comprehensive collection of primary source materials documenting Germany's political, social, and cultural history from 1500 to the present. It comprises original German texts, all of which are accompanied by new English translations, and a wide range of visual imagery. GHDI is an initiative of the German Historical Institute in Washington D.C.

⁴³ <https://museum.gwu.edu/wymers-dc>

⁴⁴ <https://collections.folger.edu/>

⁴⁵ <https://www.wilsoncenter.org/person/krista-goff>

⁴⁶ <http://germanhistorydocs.ghi-dc.org/>

7) Eleanor Dickson; HathiTrust⁴⁷

HathiTrust is a partnership of academic and research institutions, offering a collection of millions of titles digitized from libraries around the world. HathiTrust Digital Library is a digital preservation repository and highly functional access platform. It provides long-term preservation and access services for public domain and in copyright content from a variety of sources, including Google, the Internet Archive, Microsoft, and in-house partner institution initiatives. The partners ensure the reliability and efficiency of the digital library by relying on community standards and best practices, developing policies and procedures to manage content and services at scale, and maintaining a modular, open infrastructure.

8) Lauren Algee, Jaime Mears; Memory Lab Network⁴⁸

The Memory Lab Network is a project about digital preservation programs in seven public libraries across the U.S. It consists of three components: a digitization lab with equipment for digitizing video and audio and scanning photographs, documents and slides in a public computing space; digital preservation class curricula and training for the public; and a website with equipment and workflow instructions and resources for long-term storage and preservation of analog and digital archival materials.

9) Tahir Hemphill; Hip-Hop Word Count⁴⁹, Rap Research Lab⁵⁰

Tahir Hemphill presented the Hip-Hop Word Count project which allows computational analysis of Hip-Hop lyrics from hundreds of thousands of hip-hop songs from 1979, making possible to visualise hip-hop as geographical-cultural indicator.

The Rap Research Lab is a community-based creative technology studio that allows to explore rap as a cultural indicator through educational, editorial, and creative interrogations.

⁴⁷ <https://www.hathitrust.org/>

⁴⁸ <https://www.dclibrary.org/memorylabnetwork>

⁴⁹ <https://dev.hiphopwordcount.com/>

⁵⁰ <https://rapresearchlab.com/#services>

General Discussions and Opportunities for Collaboration

A final closing discussion entitled “Infrastructure, Sustainability, and International Collaboration: Where are we, and where might we go together?” was facilitated by the workshop organisers Toma Tasovac, Sally Chambers, Abigail Potter and Meghan Ferriter.

3.3 Outcomes from the Workshop

The various discussions during the Knowledge Exchange Sessions and the Opportunities for Collaboration sessions raised a number of ideas for follow-up after the workshop. A summary of the key suggestions are included below.

- **DARIAH’s Tools and Services:** US colleagues were very enthusiastic to hear about the various different tools and services offered through the DARIAH Infrastructure, especially the DARIAH Marketplace, DARIAH Working Groups, DARIAH Teach, DARIAH and CLARIN DH Course Registry and the DARIAH YouTube Channel.
- **Membership and Participation in DARIAH:** There was a lot of interest as to how organisations, individuals and potentially even consortia could participate in DARIAH. How can individual independent researchers and citizen scientists participate in DARIAH? What is Cooperating Partnership of DARIAH? Is it possible for US institutions, e.g. organizations like the Society of American Archivists ? Can US colleagues participate in DARIAH Working Groups? Is Cooperating Partnership necessary for this? Can individual researchers participate in working groups? Could consortia join DARIAH, e.g. Ivy League universities joining DARIAH as a group

Potential Collaboration Opportunities: A number of ideas for potential collaborations were explored. **For example, there was** interest from US Colleagues in using tools from NewsEye for Chronicling America? What about setting up a DARIAH Working Group for the global use of digitized newspapers? What about exploring collaboration between the US-Collections as Data initiative and the European Heritage Data Reuse Charter.

4. Australian Workshop

- Dates and Venue: 27 – 29 March 2019, National Library of Australia⁵¹, Canberra, Australia.
- **Attendees:** Registrations: Day 1: 100, Day 2: 88 and Day 3: 76
- **Workshop title:** Humanities, Arts and Culture Data Summit and 3rd DARIAH Beyond Europe workshop
- **Workshop organisers:** Kylie Brass and Julia Evans, Australian Academy of the Humanities (AAH), Rowan Brownlee and Alexis Tindall, Australian Research Data Commons (ARDC) and **Sally Chambers**, Ghent University and Piraye Hacigüzeller (DESIR)⁵²

4.1 Aims and Objectives

This Australia-Europe knowledge exchange, convened by the **Australian Academy of the Humanities**⁵³ with the **Australian Research Data Commons (ARDC)**⁵⁴ and DARIAH-EU⁵⁵, explored new horizons for data-driven humanities and arts research, digital cultural collections and research infrastructure. It has been hosted alongside the second annual Humanities, Arts and Culture Data Summit⁵⁶ by the Australian Academy of the Humanities.

The key objectives of the event were:

- explore new horizons for data-driven humanities and arts research, digital cultural collections and research infrastructure;
- facilitate connections between researchers and research infrastructures in Australia and Europe; and
- consider avenues for international collaboration.

⁵¹ <https://www.nla.gov.au/>

⁵² During the organisation of workshop the Australian team has gone through several organisational changes. For example, in July 2018 the Australian National Data Service (ANDS) merged with two further organisations to become the Australian Research Data Commons (ARDC). We would therefore like to thank the former team member including Karen Visser and Adrian Burton (Australian National Data Service, ANDS), Paul Wong (Australian Research Data Commons, ARDC), Tully Barnett (Flinders University) and Piraye Hacigüzeller, Ghent University for their contributions to organising this event. We would also like to thank the National Library of Australia for agreeing to host the event.

⁵³ <https://www.humanities.org.au/>

⁵⁴ <https://ardc.edu.au/>

⁵⁵ <https://www.dariah.eu/>

⁵⁶ <https://www.humanities.org.au/special-event-1903/>

Participants included researchers, policymakers, data experts, representatives from the cultural and collecting sectors and government agencies.

Conference sessions focused on: infrastructural challenges for large scale digital text corpora, geo-humanities and audio-visual content, new media and gaming.

4.2 Programme

The programme for this event was published simultaneously on the websites of DARIAH Beyond Europe⁵⁷ and the Australian Academy of the Humanities⁵⁸. A comprehensive printed programme was prepared for delegates⁵⁹.

New Horizons for Policy, Research and Infrastructure & Big Idea Panels

In a series of 'big ideas' panels, we will explore new horizons for humanities, arts and culture, research, policy and infrastructure.

Big Ideas panel 1 — Transformations

What are the big challenges and opportunities for data-intensive research over the next ten years? This panel will discuss digital transformations in the humanities and arts, data ethics and sovereignty, and infrastructure with impact.

- Dr James Smithies⁶⁰ — Director, King's Digital Lab: *Integrating DH into the longue durée: Research Laboratories, History, Methods*⁶¹

Big Ideas panel 2 — Intersections

How do we design infrastructure that connects? This panel will discuss collaborative platforms, partnerships between research and cultural sectors, and libraries as labs.

- Dr Marie-Louise Ayres — Director General, National Library of Australia
- Seb Chan — Chief Experience Officer, Australian Centre for the Moving Image

⁵⁷ <https://dbe.hypotheses.org/workshops/australia/programme>

⁵⁸ <https://www.humanities.org.au/special-event-1903/>

⁵⁹ <https://www.humanities.org.au/wp-content/uploads/2019/03/AAH-DARIAH-Program-Final.pdf>

⁶⁰ <https://www.kdl.kcl.ac.uk/who-we-are/dr-james-smithies/>

⁶¹ <https://www.humanities.org.au/wp-content/uploads/2019/03/AAH-DARIAH-Smithies.pdf>

The DARIAH Big Idea

Professor Jennifer Edmond, DARIAH's President Board of Director, will present on pathways to building sustainable infrastructure over time, future directions for DARIAH and the humanities and arts in Europe and beyond.

Big Ideas panel 3 — Skills and Workforce

What skills, knowledge and workforces are needed into the future? This panel will discuss interdisciplines and methods, emerging data practices, and 'Humanities 4.0'.

- Professor Jean Burgess⁶² — Director Digital Observatory, Queensland University of Technology: *Digital methods and the future of communication and media research*⁶³
- Professor Joy Damousi FASSA FAHA — Lead Chief Investigator, Future Humanities Workforce project

Australia-DARIAH Knowledge Exchange

In a series of interactive knowledge exchange sessions, speakers will critically reflect on themes and explore points of intersection and interaction, specifically, areas in which we might build fruitful, long-term collaborations. Moderated discussions in each session will identify common opportunities and challenges and seek out joint solutions.

DARIAH within and Beyond Europe: connecting with arts and humanities researchers worldwide

- Sally Chambers — Digital Humanities Research Coordinator, Ghent Centre for Digital Humanities – DARIAH

Overview of Australia: state of play and next five-ten years for digital humanities and arts

- Professor Joanne Tompkins — Executive Director Humanities and Creative Arts, Australian Research Council
- Marco Fahmi — University of Queensland, Humanities, Arts and Social Sciences Data Enhanced Virtual Lab (HASS DeVL) project: *Humanities, Arts and Social Sciences Virtual Laboratory*⁶⁴

⁶² <https://staff.qut.edu.au/staff/je.burgess>

⁶³ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-Burgess-1.pdf>

⁶⁴ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-HASSDEVL.pdf>

- Professor Jane Hunter — Director, Australian Urban Research Infrastructure Network (AURIN): *The Future Directions of the Australian Urban Research Infrastructure Network*⁶⁵

Knowledge Exchange Sessions

Knowledge Exchange session 1 — Infrastructural challenges for large scale digital text corpora

- Associate Professor Antonija Primorac⁶⁶, University of Rijeka, Croatia — *Infrastructural Challenges for Large Scale Digital Text Corpora: A View From the European Margins*⁶⁷
- Alison Dellit — National Library of Australia, Web Archives and Trove 2.0
- Professor Michael Haugh FAHA⁶⁸ and Dr Simon Musgrave, University of Queensland, Australian National Corpus: *Towards an Australian Language Data Commons: Lessons from the Australian National Corpus*⁶⁹

Knowledge Exchange Session 1 Community Notes:

https://docs.google.com/document/d/1XJXSKpmMSAcohSKec_plPV9l7AGmawCln4AIYViFvM/edit

⁶⁵ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-Hunter.pdf>

⁶⁶ <http://uniri.academia.edu/AntonijaPrimorac>

⁶⁷ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-Primorac-.pdf>

⁶⁸ https://www.humanities.org.au/fellows/fellows/?find_contact_id=1386§ion_select=117&fellowType_select=0&bio_search&name_search=Michael%20Haugh%20&year_election&country_search=0&state_search=0

⁶⁹ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-HaughMusgrave.pdf>

Knowledge Exchange session 2 — Geohumanities

- Dr Patricia Murrieta-Flores⁷⁰ — Lancaster University, DARIAH geohumanities working group
- Dr Michael Rigby⁷¹, University of Melbourne, AURIN — *Georeferencing: Theory and challenges*⁷²
- Dr Bill Pascoe⁷³, University of Newcastle — *Colonial Frontiers Massacres Map*⁷⁴
- Professor Hugh Craig FAHA — University of Newcastle, Time Layered Cultural Map of Australia

Knowledge Exchange Session 2 Community Notes:

https://docs.google.com/document/d/1EVlJ8OCFZTYG-5qpPwj_IPLFBoq72CYooFv3V1-h8Rs/edit

Knowledge Exchange session 3 — Audio-visual and new media and gaming

- Associate Professor Melanie Swalwell — Swinburne University, Play it Again project
- Professor Jean Burgess, Director, Digital Media Research Centre, Queensland University of Technology — *Digital methods in the QUT Digital Media Research Centre*⁷⁵
- Professor Erik Champion, Curtin University and UNESCO Chair of Cultural Heritage & Visualisation — *3D-DH & VH Downunder*⁷⁶

Knowledge Exchange Session 3 Community Notes:

https://docs.google.com/document/d/1ZgKR53z64BvuFn3wZljoKWj8t0QvUZ5f0SbEtqPr_-w/edit

Lightning Talks

Following the success of the lightning talks at the Library of Congress workshop, special sessions were allocated at the Australian workshop for colleagues to present their ongoing research. The speakers and topics included:

⁷⁰ [http://www.research.lancs.ac.uk/portal/en/people/patricia-murrietaflores\(6394c880-9a0e-4487-b552-c8a95be1f4ff\).html](http://www.research.lancs.ac.uk/portal/en/people/patricia-murrietaflores(6394c880-9a0e-4487-b552-c8a95be1f4ff).html)

⁷¹ <https://aurin.org.au/about-aurin/staff/>

⁷² <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-Rigby.pdf>

⁷³ <https://www.newcastle.edu.au/profile/bill-pascoe>

⁷⁴ <https://c21ch.newcastle.edu.au/colonialmassacres/map.php>

⁷⁵ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-Burgess-2.pdf>

⁷⁶ <https://www.humanities.org.au/wp-content/uploads/2019/04/AAH-DARIAH-Champion.pdf>

1. Charlotte Moar – UTS: Aboriginal and Torre Strait Islander Data Archive (ATSIDA)

As we navigate online global environments that increasingly advocate open access and sharing of information and data, questions are emerging about the recognition of Indigenous knowledge in research, and the publication of research that incorporates this knowledge in the digital domain. Established in 2008 by UTS, the Aboriginal and Torre Strait Islander Data Archive (ATSIDA) provides a digital repository for research data relating to the Indigenous peoples of Australia.

2. Associate Professor Nick Thieberger, University of Melbourne

Citing primary data, the critical role of repositories in building FAIR and verifiable research: the case of the Pacific and Regional Archive for Digital Sources in Endangered Cultures (PARADISEC)

3. Dr Rachel Hendery, Western Sydney University

I will present on a virtual reality platform ('Layered Horizons') designed and developed together with Andrew Burrell from UTS, as part of the Waves of Words ARC Discovery project. The platform allows researchers to layer different kinds of spatially located data onto a geographically embedded datascape, seeing relationships between e.g. archaeological, linguistic, anthropological or other kinds of data for the region of interest.

4. Dr Chao Sun, University of Sydney

The definition of digital humanities (DH) has been discussed and showcased in many various ways. With different purposes and approaches, it can be as simple as word counting in larger scale of corpus, or as complex as big data/AI driven society analysis. In my opinion, DH is all about adopting available technology and forming effective methods that solve humanities' problems.

5. Dr Tully Barnett, Flinders University

The future of the textual record is almost entirely digital, yet the approach we take to digitization is short-term, distributed, under resourced and disconnected from research. As the foundations for a new digital textual era are cemented, we need to ask how we envisage the future of the textual record.

6. Ian McCrabb

READ Workbench is a self-service portal which supports the integration and management of researchers, resources, tools and processes in the collaborative development of textual corpora. Workbench delivers philological research capability, configured for individual projects, as software as a service; WordPress for philologists. Workbench has been hosted at the University of Sydney since 2016 and supports a range of corpus development collaborations across multiple languages and institutions.

7. Madelyn Shaw (National Museum of American History, Smithsonian Institution) & Professor Patricia Fitz Simons (Griffith University)

Fabric of War is a transnational commodity history exploring the global wool trade and its strategic importance to a century of cold climate warfare. It brings together Trish FitzSimons' background in documentary filmmaking and social history and Madelyn Shaw's expertise in material culture and the textile industry. The project will consist of 1) an online exhibition linking to content in key institutions; 2) an innovative downloadable template/structure for a physical exhibition, adaptable for use around the globe by institutions of many sizes; and 3) a moderated web repository or digital portal that allows others to contribute to this site.

8. Dr Mahin Raissi, University of Canberra

Online petitions are an important feature of contemporary political engagement in advanced democracies. As such, they have rightly been subject to an increasing volume of scholarly analysis. Yet, there has been only limited attention paid to network analysis of the structure of interactions captured through online petition platforms. In this talk we report on a unique data set covering a five-year period and over 17,000 petitions and 3 million users documenting the development of the Change.org platform in Australia

9. Esther Anatolitis, National Association for the Visual Arts

Cultural data has important stories to tell the nation, but are those stories being heard? How can we harness the most critical, insightful work of arts and humanities researchers to inform the national conversation and influence policy? For over thirty years, NAVA has led policy, advocacy and action for a contemporary arts sector that's ambitious and fair. NAVA recently launched Arts Agenda is a monthly focus on national issues in Australia's contemporary arts.

10. Professor Veronique Duche FAHA, University of Melbourne

War words: the evolution of Australian English⁷⁷ (Veronique Duche, UoM / Amanda Laugesen, ANU) project examines a corpus of around 170,000 words drawn from Aussie magazine – a trench journal that was first published in 1918 in France, and then, following the war, continued to be published monthly in Australia until December 1931. The aim of this project is to examine, through Aussie, both the transient and lasting impacts that the First World War had on Australian language.

⁷⁷ <https://arts.unimelb.edu.au/research/digital-studio/projects/graduate-internship/2018-internship-projects/war-words>

11. Dr Deborah van der Plaat, University of Queensland

The Digital Archive of Queensland Architecture (qldarch.net) is an online, multimedia database that is accessible to public. An outcome of a ARC Linkage project, this talk will briefly consider some of the research tools built specifically for this database and the new types of architectural histories that have the potential to reveal.

12. Dr Michael Walsh, University of Sydney

The largest Aboriginal territory in New South Wales is the Wiradjuri. The intention of the project is to create a large-scale map of Aboriginal place names in Wiradjuri territory [central NSW], underpinned by a digital database. The existing documentation of Wiradjuri place names is extensive but scattered. This project will bring together disparate sources of toponymic information and contribute to Wiradjuri language teaching and learning.

Workshops

The workshop feature of the program is designed for hands-on engagement and roundtable discussion. Delegates can attend their preferred workshop session.

- Tinker workbench — Led by Humanities, Arts and Social Sciences Data Enhanced Virtual Lab (HASS DeVL) team.
- Libraries as Labs network — Led by Sally Chambers — Digital Humanities Research Coordinator, Ghent Centre for Digital Humanities – DARIAH

The way forward

In the final session of the program, the conveners will host a discussion on infrastructure, sustainability, and international collaborations – where are we, and where might we go together?

See **Way Forward Community Notes**:

https://docs.google.com/document/d/1P1LsvkU2jPdDGOETOQCH_JapuGrsETOsZbWLFwEO8/edit

4.3 Outcomes from the Workshop

The various discussions during the three-day event sparked a number of ideas for further follow-up:

- **Strengthening the Humanities, Arts and Social Sciences Research Community:** one of the core conclusions from the Australian event was the current importance of strengthening the collaboration between within **Humanities, Arts and Social Sciences within Australia** to help advocate the value of the . On this topic, Alexis Tindall, one

of the event organisers from the Australian Research Data Commons (ARDC), published a blogpost on this topic following the event.

- **Potential Collaboration Opportunities:** There were a number of concrete areas of shared interest between Australian and European colleagues: i) European Open Science Cloud (EOSC) and in particular domain-specific research infrastructures, ii) Ethical issues, particularly related to data sovereignty. Could DARIAH's Ethics and Legality Working Group (ELADH) be of interest for Australian colleagues? iii) Sustainability of research tools when short-term project funding runs out, such as maybe the case with the Tinker workbench. Could there be a role for DARIAH regarding international sustainability of research tools? Furthermore, as one participant expressed it "a quarter of the world's languages are in Australia, collaborations with DARIAH's sister infrastructure CLARIN could also be of interest.

5. Conclusion

The aim of this report was to provide an overview of the three workshops that were organised at Stanford University⁷⁸, at the Library of Congress⁷⁹ and at the National Library of Australia⁸⁰ as part of the DARIAH Beyond Europe International Workshop Series. The purpose of these workshops was to promote DARIAH tools and services to the wider community beyond Europe, to initiate collaborations, and above all to exchange knowledge and experience in digital scholarship on an international level.

With these three workshops, DARIAH has reached over 275 participants who were present during the events, as well as scores of viewers who have watched the DARIAH Beyond Europe videos and the hundreds of interactions that have taken place via the #DARIAHBeyondEurope Twitter Hashtag. Through the DARIAH Beyond Europe workshop series, DARIAH has broaden its global outreach significantly.

This report includes a number of ideas for potential collaboration opportunities that arose from the discussions during the workshop series, which will further be elaborated on in the DESIR Final Report. However, DARIAH Beyond Europe has already stimulated DARIAH to review its current policy related to Cooperating Partner Institutions. As a result, in DARIAH's Strategic Action Plan (2019-2022), a specific action has been added: ***STRAPL Action 10: "DARIAH will revisit the role and relationship of Cooperating Partners with the goal of reestablishing a basis for mutual value in a developing environment, in particular with an eye toward our growing links beyond Europe."***

Originally envisaged as a one off series of three workshops, it seems that the DARIAH Beyond Europe initiative has not only increased DARIAH's visibility internationally, but has led to a DARIAH to reflect on its long-term approach to its international activities much more deeply.

⁷⁸ <https://dbe.hypotheses.org/workshops/stanford>

⁷⁹ <https://dbe.hypotheses.org/workshops/library-of-congress>

⁸⁰ <https://dbe.hypotheses.org/workshops/australia>