



D3.4

Final Report

DESIR

DARIAH ERIC Sustainability Refined

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

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Executive Summary

This report provides information about activities and progress towards establishing DARIAH membership in six countries: the Czech Republic, Finland, Israel, Spain, Switzerland, and the UK, which took place between July and December 2019. Previous activities were described in detail in the D3.2 - Regularly Monitor Country-Specific Progress in Enabling New DARIAH Membership. During the project lifetime, the Czech Republic joined DARIAH ERIC; in other countries, collaboration with DARIAH has been greatly strengthened and significant progress regarding DARIAH membership has been achieved. The report also outlines the next steps in the accession processes, building on the results of the DESIR project.

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)
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1. CZECH REPUBLIC

This report describes activities of the Czech DARIAH consortium and progress in accession process towards full membership of the Czech Republic in DARIAH ERIC in the last six months (July to December 2019).

The report informs about the process of approval of the Czech Republic full membership in DARIAH ERIC. There is also information about successful application for European Operational grants to gain funding for investment for DARIAH-CZ infrastructure.

1.1 Overview of the political situation concerning the DARIAH accession process

The Czech government approved material regarding the National Roadmap of Large Research Infrastructures for 2019-2022 in December 2018 and DARIAH-CZ was included as a new infrastructure on the Roadmap. After discussion with the Ministry of Education, Youth and Sport (MEYS) it was agreed that DARIAH-CZ will merge with LINDAT/CLARIN infrastructure (which was already on the National Roadmap of Large Research Infrastructures) under name LINDAT/CLARIAH-CZ. MEYS also agreed to head towards full membership in DARIAH ERIC in 2019 and in cooperation with members of LINDAT/CLARIAH-CZ consortium applied for full membership in June 2019.

1.2 Description of the main July-December 2019 steps



Figure 1 – LINDAT/CLARIAH-CZ logo

1.2.1 DARIAH-CZ consortium, activities under LINDAT/CLARIAH-CZ

As described in detail in the D3.2: Regularly monitor country-specific progress in enabling new DARIAH membership, the DARIAH-CZ consortium is on the National Roadmap of Large Research Infrastructures from January 2019 and from 2020 it will merge with LINDAT/CLARIN under LINDAT/CLARIAH-CZ.

Activities in the past six months focused mainly on inventory of databases and tools run and provided by consortium members. One of the main goals for near future is to enable searching through all data and services via one main point. Thus, detailed descriptions of metadata and data of every partner were collected and currently are analyzed to select set of metadata for common search and database. For example, as the best way to collect data from libraries the format Europeana Data Model (EDM) was chosen; data will be harvested via OAI-PMH.

At the moment it is already possible to search several information sources from the main LINDAT/CLARIAH-CZ web page: <https://clariah.lindat.cz/>. The page is also providing information about the Czech consortium and its services and activities.

A series of three autumn tutorials was organized for all interested audience. First two tutorials were introducing services of LINDAT/CLARIAH-CZ members and the third one was focused on introduction to TEI and it was provided by colleagues from Karl-Franzes-Universität in Graz, Austria with support of the DESIR Project (a brief report of the tutorial is included in deliverable 7.3 - Organize training measures, including workshops in accession candidate countries).

Concerning in-kind contribution to the DARIAH ERIC, the members of the Czech consortium were selecting, evaluating and improving their services, which will be offered as in-kind contribution. It will consist mainly of databases, data services and software tools operated and created by the DARIAH-CZ (LINDAT/CLARIAH-CZ) consortium members.

1.2.2 Official approval of the membership in DARIAH ERIC

The DARIAH ERIC official application form was filled and signed by the Minister of MEYS Robert Plaga on the 11th of June and it was sent to DARIAH ERIC Board of Directors and secretariat.

Representatives of the MEYS were invited to join the DARIAH ERIC General Assembly held in Zagreb, Croatia on the 7th of November 2019. Kamila Gabrielová was speaking at the Assembly on behalf of MEYS and Martin Lhoták, who was proposed by MEYS as National Coordinator, introduced the Czech DARIAH consortium to the General Assembly. Consequently, after voting, the Czech Republic became 19th DARIAH ERIC member country, unanimously approved by the General Assembly.

1.2.3 Application for DARIAH-CZ investments funding from EU operational program

In close connection with the National Roadmap of Large Research Infrastructures a new call from EU operational program was opened to finance investments. DARIAH-CZ consortium members prepared an application which was provided to MEYS in June. The amount of investments required to strengthen the infrastructure of DARIAH-CZ for years 2020-2022 is more than 32 mil. CZK (approximately 1,25 mil EUR). The application was approved in November, and it is necessary to provide additional documents and conclude agreement with MEYS till the end of the year 2019. The financing of investments will start in 2020.

1.2.4 Central European DARIAH Hub – V4 project

Central European DARIAH Hub (CEH) which comprises of institutions from Austria, Poland, Slovakia, Hungary and the Czech Republic has prepared a project to organize series of workshops in V4 countries and Austria which will be oriented on digital humanities methods (eg. computer linguistics, TEI, etc.) The workshop on Natural Language Processing and Corpus Linguistics <https://ling.ff.cuni.cz/cs/2019/01/14/gentle-introduction-to-natural-language-processing-and-corpus-linguistics/> was organized in the Czech Republic at the end of June.

1.3 General roadmap: the next steps

- Broadening cooperation of members of the DARIAH-CZ consortium in the framework of the LINDAT/CLARIAH-CZ research infrastructure provided by the agreement with MEYS.
- Enhancing in-kind contributions to DARIAH ERIC
- Further development of DARIAH-CZ tools and infrastructure for digital humanities described in the agreement with MEYS
- Broadening cooperation of members of DARIAH CEH (Central European Hub) and working on the project “Training Digital Scholars: Knowledge Exchange between V4 and Austria” supported by V4 funds
- Preparing LINDAT/CLARIAH-CZ workshop in 2020
- Participating in future DESIR and DARIAH-EU events

2. FINLAND

This report describes the actions taken towards DARIAH accession in Finland during the months 31–36 of DESIR according to the roadmap established in the D3.1 deliverable and updated in the M12, M18, M24 and M30 reports.

The main event in July–December 2019 was a public workshop organised by DARIAH-FI on the theme of Open Science in the social sciences and humanities. Preparations also began in earnest for the 2020 Academy of Finland call for research infrastructures to be included in the national roadmap. The Academy of Finland published in December the first set of results for its FIRI 2019 funding call, in which DARIAH-FI participated; DARIAH-FI will get its results in the second batch on 21 January 2020.

The main task in Finland following the conclusion of the DESIR project will be to apply for roadmap status for the DARIAH-FI research infrastructure. If roadmap status can be achieved in the 2020 application round, Finland should be in a position to apply for DARIAH membership in 2021. If not, the DARIAH-FI consortium will continue to build a framework for national RI cooperation, extend the network of DARIAH cooperating partners in Finland and work closely with DARIAH-EU to be prepared for future rounds of updates to the Finnish roadmap for research infrastructures. The consortium has been mapping Digital Humanities and infrastructure development in Finland and promoting SSH RI locally; this work is beginning to bear fruit as institutional willingness to invest in DH infrastructure.

2.1 Introduction

Over the last six months of DESIR, efforts in Finland have focused on the one hand on consolidating the collaboration through which the Finnish Research Infrastructure for Social Sciences and Humanities (DARIAH-FI) consortium was formed, and on the other hand on planning for the future. Work began on a communication strategy for DARIAH-FI (see section 2.2.1) and consortium members have continued to promote the development of SSH RI at their respective institutions (2.2.2). The first plans for DARIAH-FI's roadmap application were drafted (2.2.3) and the first results for the 2019 Academy of Finland funding call for research infrastructures (FIRI 2019), which dictate the immediate future of setting up a Finnish provider for DARIAH services, were published on 9 December 2019. DARIAH-FI was not among the RIs evaluated in the first round and will therefore have to wait for its results until 21 January 2020 (2.2.4).

While waiting for the FIRI results, the DARIAH-FI consortium organised an Open Science workshop to pave the way for successful infrastructural cooperation at the national level (2.3.2). The objectives of the workshop held in October 2019 were to share knowledge of best practices with regard to reusing data and tools in the spirit of Open Science; to learn from established national and international research infrastructures how they approach openness; and ultimately to create opportunities for coordinated, national collaboration in digital humanities in Finland. Other DARIAH meetings in July–December 2019 included

virtual meetings of the DARIAH Nordic Hub (2.3.1) and the DESIR Final Event (2.3.3). The current situation and the next steps on Finland's roadmap to DARIAH accession are summarised at the end of the report (2.4).

2.2 DARIAH-FI consortium progression

2.2.1 Developing a communication strategy

As a means to consolidate DARIAH-FI as an entity in the Finnish and international research landscape, plans have been made for a communication strategy for the near future. Our main goal regarding external communication is to further increase awareness of both DARIAH-FI and DARIAH-EU especially in the universities involved. This includes identifying the most effective methods of disseminating information about the goals and implementation of DARIAH-FI to the wider community of researchers and students. Fluent internal communication is crucial for making sure that the network includes all relevant actors and is able to recruit their expertise. The consortium will continue its regular virtual meetings to ensure effective internal flow of information and to continually identify its strengths and development needs.

In the first instance, DARIAH-FI will, out of necessity, rely on already existing external communication channels, i.e. those of the consortium members and their close collaborators. Since the consortium members represent the majority of institutions with an interest in Digital Humanities in Finland, we may depend on the information channels within each organisation to reach a significant proportion of the local SSH/DH community. For example, the Helsinki Centre for Digital Humanities (HELDIG) at the University of Helsinki has 382 mailing list subscribers, the HELDIG Facebook group has 568 active members, and the HELDIG website received over 25,000 unique page views in the past year. Our wide network of members and partners provides a starting point for disseminating information about dedicated DARIAH-FI communication channels, which will be set up in 2020 (pending funding). These will comprise at minimum a website directed at potential users, and a Twitter account. Based on the precedent of HELDIG follower numbers above, setting up a Facebook page will be prioritised over creating a newsletter/ mailing list.

Internationally, Digital Humanities in the Nordic countries (DHN) and our other Nordic collaborators, as well as DARIAH-EU, provide established channels for reaching potential stakeholders. Visibility at international conferences is deemed important, because the consortium wants to develop DARIAH-FI in close collaboration with its international counterparts – our actions should be timely and relevant not only nationally but also in the wider European and global context.

2.2.2 Updates from consortium members

The **University of Helsinki** is launching the Helsinki Institute for Social Sciences and Humanities (HSSH; working title) at the beginning of 2020. One of the main objectives of the HSSH is to improve the coordination and sharing of RI resources both within the university and with external partners – in other words, the university is committed to supporting the sustainable, national development of SSH research infrastructure. This is in line with the plan that DARIAH-FI should have its base of operations at the institute.

The new strategy of the **University of Jyväskylä** includes a university-wide Digital Programme, so now is a good time to push for investments in digital research infrastructure, also for the social sciences and humanities. Similarly, data sciences are becoming a focal point for development following the recommendations of a recent research assessment at the University of Eastern Finland.

The universities of **Tampere** and **Aalto** have both gained funding from the Academy of Finland Digital Humanities programme and are launching new projects. The University of Tampere has hired a new Associate Professor of Information Studies and Interactive Media, and the Faculty of Information Technology and Communication Sciences is in the process of recruiting another professor in a related area; both will participate in the development of DARIAH-FI. The **National Library of Finland** has gained EU project funding for developing a new service concept, the Library Lab, the purpose of which is to facilitate data-driven SSH research.

Researchers at the **University of Turku** will gain access to a new powerful computing resource as part of the Finnish Grid and Cloud Infrastructure (FGCI) consortium. The new computing cluster can be used e.g. for tasks related to machine learning, and researchers from all fields, including the humanities and social sciences, are invited to use this resource. **CSC - IT Center for Science Ltd.** is also making plans with the Ministry of Education and Culture to dedicate more resources to serving SSH fields. Collaboration with these infrastructures means that DARIAH-FI can focus on developing the channels through which researchers interact with computational resources, rather than the computing resources themselves.

2.2.3 National roadmap for research infrastructures

An Academy of Finland call for research infrastructures to be included in the national roadmap (a prerequisite for Finland's country membership in DARIAH) has been announced for 2020; the details of the call will be made available on 28 January 2020 in conjunction with the Academy of Finland's new strategy for research infrastructures.

The DARIAH-FI consortium held a virtual meeting on 28 November 2019 to discuss the possibility of making a roadmap application. All members were in favour of applying,

assuming that DARIAH-FI and all its members are eligible¹. The consortium will gather as much information as possible about previous roadmap calls prior to the publication of the new FIRI strategy in order to be prepared for a potentially fast turnaround time between call date and submission deadline.

2.2.4 Results from the Academy of Finland funding call for research infrastructures (FIRI 2019)

Unfortunately, the outcome of DARIAH-FI's funding application to the Academy of Finland is as yet unknown. The first results of the Academy of Finland funding call for research infrastructures 2019 were announced on 10 December 2019² but, for budgeting reasons, the Academy of Finland publishes FIRI results in two batches. DARIAH-FI will receive its results in the second group, on 21 January 2020. Whatever the outcome, the process of applying for funding has been invaluable practice for a national RI roadmap application, which is our main goal in the context of DESIR. Any feedback from the FIRI panel will be highly useful for developing a successful bid for roadmap accession.

2.3 DARIAH meetings

Nationally, the main event of the period July–December 2019 was a public workshop organised by DARIAH-FI in conjunction with DARIAH-EU. Nordic collaboration continued through the DARIAH Nordic Hub, and other European contacts were maintained through participation in the DESIR Final Event.

2.3.1 DARIAH Nordic Hub virtual meetings (September – November)

Prof. Mikko Tolonen took part in several virtual meetings of the DARIAH Nordic Hub (Sept – Nov 2019). The purpose of these meetings was to identify the most relevant common points of interest in DH Higher Education in the Nordic and Baltic countries and to set up a network for advancing knowledge exchange especially with respect to worklife relevance, lifelong learning and the use of mixed methods in a classroom setting. The novelty of the network is that it aims to bridge different teaching activities in the arts and humanities. The network is preparing to make a NordPlus application in the near future to further develop its operations. In this context, dariahTeach is considered a model that could be emulated.

¹ Since the CSC and the FSD are already roadmap infrastructures themselves, we will need to confirm their eligibility as soon as the call is published on 28 January 2020.

² <https://www.aka.fi/en/about-us/media/press-releases/2019/academy-of-finland-grants-13-million-euros-for-building-and-developing-research-infrastructures/>

2.3.2 DARIAH-FI workshop “Reuse & sustainability: Open Science and social sciences and humanities research infrastructures” (October)

The advancement of digital humanities and social data science in Finland is currently dependent on the construction of national infrastructure that is researcher-driven and adaptable but also robust enough to disseminate the methods, tools and data sets created by researchers, ensuring they are discoverable, well-documented, and reusable. To achieve such national – as well as international – coordination, it is crucial to spread awareness of the preconditions of Open Science as they pertain to SSH fields in particular. To this end, on 23 October 2019 DARIAH-FI organised a workshop titled “Reuse & sustainability: Open Science and social sciences and humanities research infrastructures”.

Aimed at anyone using computational methods in SSH research and especially those thinking about foundational questions of digital infrastructure in the humanities and social sciences, the workshop focused on the preconditions of reusing data and tools (documentation, best practices) in SSH research. We also learnt how Instruct Finland, a national, integrated structural biology network, supports state-of-the-art research, and heard about the latest developments regarding the SSH Open Marketplace, developed in conjunction with the Social Sciences and Humanities Open Cloud (SSHOC). The day ended with a discussion about the current and future possibilities offered by SSH research infrastructures in the Finnish context.

The speakers included Prof. Leo Lahti (University of Turku), Dr. Hanna Oksanen (University of Helsinki), Ms. Laure Barbot (DARIAH-EU) and Prof. Mikko Tolonen (University of Helsinki). The participants – researchers, library and archives professionals, research services professionals and representatives of research infrastructures – came from five different Finnish universities (Aalto, Eastern Finland, Helsinki, Tampere, Turku), the National Library of Finland, CSC – IT Center for Science Ltd., the Academy of Finland, and the



Figure 2 - Photo from the workshop “Reuse & sustainability: Open Science and social sciences and humanities research infrastructures”

Finnish National Board on Research Integrity. The total number of participants including speakers and organisers was 33.

The workshop was very successful in raising awareness of the various issues that researchers and research infrastructures face when implementing Open Science in their practices and procedures, from the particular complexities of SSH data to the challenges of promoting best practices or tracking infrastructure usage. From the organisers’ perspective, the talks and the audience discussions provided much food for thought on how DARIAH-FI should be developed going forward. It strengthened our understanding of how the needs of various stakeholders vary with regard to SSH data. We also found the dialogue between STEM and SSH infrastructures very fruitful and will keep pursuing similar opportunities for knowledge sharing.

2.3.3 DESIR Final Event (November)

Dr. Tuuli Tahko represented Finland in the DESIR Final Event held on 6–7 November 2019 in Zagreb, Croatia, as well as in the National Coordinators' Committee meeting immediately preceding the event. The meetings provided a valuable opportunity to share experiences between DARIAH Accession countries, to present our progress to the wider community, and to learn from existing DARIAH members about recent activities that have taken place all over Europe and beyond. The model of CLARIAH As A Service (CLAAS) in The Netherlands, for example, can be a useful benchmark for developing the DARIAH-FI service structure. Initiatives such as the DARIAH Campus (<https://campus.dariah.eu/>), DARIAH Helpdesk, and the SSHOC Marketplace, as well as the sustainability recommendations and community engagement tool developed in WP6 (<https://dariah.peopleware.pt/index.php>), facilitate the building of national services that slot as seamlessly as possible into their wider, international operating environment.

2.4 Roadmap for Accession Preparation (update)

2.4.1 Current situation

The timing of the three-year DESIR project did not coincide with an update to the Finnish roadmap for research infrastructures (the current version of which is valid for 2014–2020), which meant that it was not possible for Finland to join DARIAH during the project. Our goal, rather, was to be as prepared as possible for future opportunities for accession. Finland has made significant progress towards DARIAH accession during the DESIR project by building a national consortium of universities, memory organisations and infrastructure providers eager to coordinate their efforts at the national and international level. The Finnish Research Infrastructure for Digital Humanities and Social Sciences (DARIAH-FI) has established connections to all relevant actors in the field of Digital Humanities in Finland and found them willing to work towards a common goal of an integrated national and international research infrastructure.

The funding application submitted by the consortium to the Academy of Finland in 2019 will act as a basis on which further collaboration and future applications may be built.

2.4.2 Next steps

The impact of DESIR has been crucial in preparing us to apply for inclusion in the roadmap and consequently for DARIAH membership at the earliest possible opportunity. As mentioned previously, an Academy of Finland call for research infrastructures to be included in the national roadmap has been announced for 2020. The DARIAH-FI consortium is currently preparing to participate in this call. If successful, Finland could be in a position to apply for DARIAH membership in 2021.

For the foreseeable future, the universities of Helsinki and Aalto continue as cooperating partners of DARIAH, and research collaboration within different DARIAH working groups (e.g. the recently established Bibliographical Data, as well as #dariahTeach, Digital Methods and Practices Observatory (DiMPO), GeoHumanities, Lexical Resources and Text and Data Analytics) helps maintain active connections. In the event that DARIAH-FI will not receive roadmap status in 2020, as an intermediary step towards DARIAH membership the network of DARIAH cooperating partners in Finland should be extended to include more universities. The Helsinki Digital Humanities Hackathon 2020 is currently in preparation and will take place in May 2020. Other events may be organised in collaboration with e.g. the Helsinki Centre for Digital Humanities; Nordic collaboration will continue through the DARIAH Nordic Hub. Nordic collaboration will also be at the forefront in the near future since Digital Humanities in the Nordic countries (DHN) has recently moved its headquarters to Helsinki.

3. ISRAEL

This report provides a summary of activities over the last 6 months of the DESIR project in Israel as well as an overview of the work down towards Israel's accession to DARIAH across the DESIR project.

The Humanities in Israel, as in the entire Western world, have been in a state of crisis over the past two decades, and the integration of the digital humanities may be one avenue for strengthening the relevant disciplines, leading to innovative projects, launching attractive academic programs, and promoting collaboration and Interdisciplinary research. Israel's accession to DARIAH would undoubtedly constitute a major step in this direction, inasmuch as the various and diverse DH projects under way throughout the country may benefit from the collaboration with the infrastructures of the European Digital Research Infrastructure for the Arts and Humanities and may, in turn, make their own contribution.

The recognition of these mutual advantages and the potential for productive synergies is now widespread across both academic and governmental institutions, but it has so far remained at the level of intentions and public declarations, and has not been translated into practice in terms of budgetary allocations. Much of the delay is undoubtedly due to the turbulent political scene in Israel and the difficulties of taking practical steps in the absence of political continuity.

The Younes and Soraya Nazarian Library of the University of Haifa became a member of the DESIR project in 2016, joined WP3, and engaged with the project of promoting Israel's accession to DARIAH. While these efforts have not been crowned with full success yet, there has been considerable progress towards Israel's accession to DARIAH during the time of the project and in particular over the past 6 months.

3.1 Description of the main activities and achievements, July-December 2019

Over the past six months, the library has worked in full collaboration with Prof. Bligh, the Chief Scientist of the Ministry of Science and Technology, and particularly with Dr. Alex Altshuler, who is in charge of the Humanities and Social Sciences at the Science and Technology Ministry. Prof. Bligh participated in the colloquium organized at the University of Haifa in October 2018 and re-asserted the commitment of the Ministry to the advancement of the Digital Humanities. Dr. Altshuler, who has been recently appointed to office, has been extremely supportive of the DESIR project, visited Haifa several times for consultations about Israel's accession to DARIAH and also met with Dr. Toma Tasovac (member of DARIAH Board of Directors) both in Jerusalem and in Haifa for detailed discussions of the process.

Another encouraging development has been the involvement of the Young Academy of Sciences, a select group of outstanding academics who are affiliated to the Israel Academy of Science. The engagement of this group, and particularly the work of Prof. Michal Ben-Asher and Prof. Liat Kozma, with the development and promotion of the Digital Humanities

in Israel has been extremely significant in terms of our negotiations with the Council for Higher Education (CHE) and with its Budgeting and Planning commission, and we have every reason to believe that this joint effort would be productive and beneficial.

Following a colloquium organized by the Israel Young Academy in June 2019, with the participation of the representatives of the Younes and Soraya Nazarian Library of the University of Haifa, a think-tank has been established to address the subject of promoting the Digital Humanities in Israel. The think-tank dealt with the relevant issues from the viewpoint of young researchers, addressing issues like the future of research and pedagogy in the humanities; multidisciplinary avenues of research; budgetary concerns; and possibilities for promoting the humanities both within the walls of the university and beyond them, in the public sphere. Issues, which are currently on the think-tank agenda, include the following:

- Connecting Academia to Policymakers & Public³
- Educational Initiatives⁴
- Promoting Excellence In Research⁵
- Science Policy in Israel⁶

3.1.1 The Digital Humanities Forum

On October 31, the Israel Academy of Science in Jerusalem held the first meeting of the Digital Humanities Forum. The participants included Data Science Researchers from various universities, who presented the work done at their respective institutions and discussed the integration of digital humanities at the research centers.

3.1.2 The Haifa Workshop for "Digital Editions" and TEI

The workshop on "Digital editions and TEI", conducted by Dr. Toma Tasovac and Dr. Sinai Rusinek was held at the Younes and Soraya Nazarian Library of the University of Haifa in the framework of DESIR project (WP7). 27 researchers, students and librarian from various academic and research institutions across the country, e.g. Haifa University, Tel- Aviv University, Bar Ilan University, Ben-Gurion University, Open University and The Henrietta Szold Institute, Information center attended the workshop.

The participants' responses to this workshop initiative were unanimously positive and indicated the need for further DH training initiatives.

³ <http://www.young.academy.ac.il/RichText/GeneralPage.aspx?nodeId=941>

⁴ <http://www.young.academy.ac.il/RichText/GeneralPage.aspx?nodeId=942>

⁵ <http://www.young.academy.ac.il/RichText/GeneralPage.aspx?nodeId=943>

⁶ <http://www.young.academy.ac.il/RichText/GeneralPage.aspx?nodeId=944>

3.1.3 The Israel-France DH Seminar

An Israel-France seminar on "Digital Humanities" and on "Computational Modeling with Functional and Evolutionary Genomics of Infectious Disease" was held on December 3, 2019 in French Institute, Tel Aviv.

The program included several lectures on DH projects given by Dr. Daniel Stoekl Ben Ezra (Université Paris 4 / CNRS / EPHE, France), Dr. Esther Eshel (Bar Ilan University, Israel) and Dr. Michael Langlois (Université de Strasbourg, France).

The lectures were followed by a roundtable on "The Digital Humanities in Israel: Challenges and Opportunities", chaired by Dr. Alex Altshuler of the Ministry of Science and Technology, who described DARIAH and the efforts that are made to be part of DARIAH-EU, Prof. Liat Kozma - The Hebrew University of Jerusalem and Israel Young Academy, Prof. Ophir Muenz-Manor – The Open University of Israel, and Dr. Sinai Rusinek – The University of Haifa and The Open University of Israel.

3.2 A brief summary of the process over the past three years

During the course of the project, DESIR – Israel, headed by the Younes and Soraya Nazarian Library at the University of Haifa, acted towards the promotion of Israel's accession to DARIAH. The activities initiated in this framework have been reported and discussed at regular intervals by the WP 3 group of the DESIR project.

The first step was the establishment of a website designed to familiarize researchers with the Digital Humanities in general and with DARIAH in particular, to offer information about relevant workshops in Israel, various DH research projects, and work tools and platforms.

A second was a mapping of current DH projects throughout the country.

A third, and most significant step, was the establishment of a "Digital Humanities Interest Group", following a colloquium at the University of Haifa in October 2018. The membership of this group included the Deans of the Humanities at various Israeli universities, researchers, and librarians. The group was established as a preliminary network of interested parties, and it is hoped that it will lay the foundations for an official Israeli DH Consortium in the future.

A fourth line of action was the establishment of contacts with relevant government ministries and agencies, primarily the Ministry of Education (in charge of the Council of Higher Education and the Budgeting and Planning Commission) and the Ministry of Science and Technology. These contacts have only recently begun to yield results, particularly on the part of the Ministry of Science and Technology.

A fifth line of action was the organization of colloquia and workshops to which we invited Dr. Frank Fischer and Dr. Toma Tasovac, as DARIAH Representatives. We have also established direct contacts between Dr. Tasovac and Dr. Alex Altshuler and arranged several meetings to discuss Israel's accession to DARIAH.

A sixth line of action was the dissemination of information on DH projects and a “matchmaking” effort, which has already yielded some Israeli-European collaborations. One example of these developments is the collaboration of the Israeli Ilanot project and the Digital Humanities Lab at The Niedersächsische Staats-und Universitätsbibliothek Göttingen., which was awarded a research grant by the Volkswagen Foundation, as part of the "Lower Saxony – Israel" Research Cooperation Initiative.

3.3 General roadmap for accession

As we have indicated, there is every reason to hope that the establishment of a stable government in Israel after a prolonged period of instability and uncertainty will accelerate the process whose foundations we have laid over the past three years.

Recent developments have indicated that there is, indeed, a movement towards the consolidation of the Digital Humanities in Israel:

- The Ministry of Science and Technology has declared its intention to promote and support Israel's accession to DARIAH;
- The spectrum and volume of DH projects in Israel is constantly increasing and proliferating;
- The Young Academy has joined our efforts and become a significant player in this arena;
- The Council for Higher Education is also interested in promoting the Digital humanities and has made significant budgetary allocations for Data Science projects across the country;
- We believe it is likely that a call for proposals would be issued to enable the establishment of an Israeli center for the Digital Humanities, and that an official DH consortium including universities, libraries, cultural centers, museums and archives will be established.

In view of these encouraging developments, we believe that the outlook for Israel's accession to DARIAH is now both positive and realistic.

3.3.1 Follow-up activities

We are currently engaged in a three-pronged discussion with the Ministry of Science and Technology and with the representatives of the Young Academy of Sciences on ways and means to foster and move the accession process further. Our aim is to arrange for a presentation of DARIAH and the Digital Humanities at the council of the Budgeting and Planning Committee of the Council for Higher Education in Israel so as to generate collaboration between the two ministries (Science and Technology and Education), and

bring about a governmental decision regarding Israel's accession to DARIAH. We are now preparing the presentation and hope that, in spite of the political uncertainty in Israel, we should be able to go ahead with this plan and finalize the accession of Israel to DARIAH.

4. SPAIN

This final report presents progress towards Spanish DARIAH membership either as a full or as an observer member. Spanish membership depends on the ongoing political discussions in the Spanish Government and the pressure the possible stakeholders could exert, in the meantime, to prove to the authorities that the use of DARIAH's infrastructure will be beneficial for the arts and humanities in the country.

Three main things are worth highlighting regarding the work of the Spanish partner in the project during its final six months. Firstly, a Spanish Digital Humanities report has been prepared. Secondly, a permanent adhesion board has been constituted with different stakeholders from universities (Complutense University, Málaga University, Santiago de Compostela University, Barcelona University - all members of HDH). Finally, The Spanish DH report was presented at the DESIR final event and DARIAH ERIC meetings in Zagreb in November.

4.1 Overview of the Spanish political situation

As we informed in the previous reports, up to now Spain has not been involved in any of the Humanities ERICs (DARIAH and CLARIN). At the present moment, the new Ministry in charge of the infrastructure roadmap is the Ministry of Science, Innovation and Universities. Despite recent changes in the Spanish Government, we now have a robust and solid contact in it - Inmaculada Figueroa, Deputy Vice-Director General for Internationalization of Science and Innovation. The Vice Minister of Education (Secretario de Estado de Educación) is the former Rector of UNED. This means we finally seem to have suitable interlocutors in the Government. On the other hand, there is right now no government in Spain as we are waiting for the results of the elections. These two persons are at the moment in the provisional Government. We expect Inmaculada Figueroa will continue her work in the new Government.

4.2 Description of the main July-December 2019 steps

In order to prepare the establishment of the Spanish DARIAH Consortium, a steering board has been established within the Association of Hispanic Humanities (HDH) and Digital Humanities Innovation Laboratory at UNED, LINHD. In this board, some of the most important institutions of Spanish DH are represented; some other (like museums, libraries, and archives) are still to be invited. This board would be fostered by the support of the Excellence Network granted for the adhesion of Spain to DARIAH and CLARIN. The Excellence Network is a group of institutions that are fostering a proposal together; in this case, the INTELE network will work towards Spanish membership in DARIAH and CLARIN. It seems that in Spain DARIAH and CLARIN - following the example of some other European

countries - could join forces in order to make a strong case for accession to both infrastructures.

In order to support the Spanish membership in DARIAH, the Laboratory for Innovation in Digital Humanities (LiNHD) of the UNED, as a member of the DESIR project, decided to carry out a research on the current state of digital research infrastructures in the field of arts and humanities in Spain. The immediate goals of the survey were to identify researchers in the field of Digital Humanities and to explore their funding, institutional affiliations, projects, and developed resources. The longer-term goal was to provide both the Spanish Ministry of Science, Innovation and Universities, responsible for Spanish accession to DARIAH, and the global DH community with a better understanding of the current state of Digital Humanities in Spain.

The mapping exercise also explored the collaborative dimension of the discipline through research projects carried out in conjunction and multi-authored publications, as well as the spatial distribution of the research centers.

The research has been very much data-oriented, in order to assess the quantitative dimension of Digital Humanities in Spain primarily. The six-months study has been conducted in three phases. During phase I (June-July 2019), the mapping methodology was developed, a shared web information system was put in place, and the data model defined. Phase II (August-October 2019) represented the core of data collection and verification. During phase III (November-December 2019), the results were analyzed, and the report written in the format of a white paper.

The DESIR project funds were used to contract two people to help us to work on the report.

4.3 Evaluation of the general roadmap for accession

The established roadmap for the last six months was:

- October 2019. Present the report about infrastructures at DHD annual conference in Toledo - the first draft was delivered.
- September-November 2019. Meeting at the Ministry to present the infrastructure report - since the elections were held in November, it was impossible to schedule a meeting at that time.
- November 2019. Attend final DESIR meeting - the event was attended, the main results of the report devoted to DH in Spain were presented.

4.4 Next steps

A considerable progress has been achieved on the road to Spanish DARIAH membership. Knowledge about DARIAH has increased in the last three years, and now Spanish

researchers begin to fully understand the advantages of being part of DARIAH ERIC. Stakeholders are identified and organised. The Government has granted INTELE Excellence Network for the adhesion of Spain to DARIAH and CLARIN. Finally, a report has been prepared devoted to Digital Humanities infrastructures and stakeholders in Spain, which will be regularly updated in the future.

Although we haven't been able to establish the Spanish membership yet, we have built a solid pillar to foster the process. After the delivery of the DH report, we will ask for an appointment to present the report to the Spanish Government in connection with the issue of DARIAH membership. The steering board established within the Association of Hispanic Humanities (HDH) and Digital Humanities Innovation Laboratory at UNED, LINHD, will propose that the institutions contribute financially to pay the fee. Finally, we will also use INTELE Network to support the accession process.

5. SWITZERLAND

This report provides an overview of the last 6 months (30-36 months) of activities undertaken by the two Swiss beneficiaries in the DESIR project as well as an overview of progress for CH in sustaining DARIAH across the DESIR project lifecycle.

5.1 Overview of the political situation concerning the DARIAH accession process

As explained in the D3.2 - Regularly Monitor Country-Specific Progress in Enabling New DARIAH Membership report, the SERI has delegated to the SNSF the lead of the Data and Service Center for the Humanities (DaSCH⁷) and of the relationship to DARIAH (transition in 2019-2020). The Swiss participation to DARIAH as observer member can be discussed with the SERI⁸. The possibility of full membership remains conditioned to a global negotiation with the EU about smaller ERICs, that could take place in 2021-2024. The transition between the SAHS and the SNSF about the DaSCH and DARIAH files is now on its road. On the 16.07.19, the English translation of a 17 April 19 document has been published by the SERI in the perspective of the research infrastructure roadmap 2021-2024⁹. It mentions on page 28 DARIAH as rated A, under the lead of the SNSF, with financial resources "to be established":

b) Infrastructures in which Swiss institutions have shown an interest

Infrastructure	Swiss institutions involved ('national node')	Priority for Switzerland	Approx. costs to Confederation (SERI) (CHF m) ³³
Aerosol, Clouds, and Trace Gases Research Infrastructure (ACTRIS)	PSI	A	5.09 ³⁴
Digital Research Infrastructure for the Arts and Humanities (DARIAH ERIC)	Consortium ³⁵	A	To be established (SNSF)
European Long-Term Ecosystem and socio-ecological Research Infrastructure (eLTER)	WSL, ETHZ, University of Basel	A	-
Extreme Light Infrastructure (ELI)	ETHZ	B	-
European Solar Telescope (EST)	USI ³⁶	B	-
Infrastructure for Large-scale Experimental Computer Science (SILECS) ³⁷	University of Geneva	B-C	-

Twelve infrastructures were considered to be of major importance for the Swiss science community (Priority A). Of these, two are at the planning stage (ACTRIS and eLTER) and one does not yet have any Swiss participants (ECCSEL ERIC). The SILECS, EST and ELI infrastructures do not have top

³² Participation costs.

³³ 2021–2024 period.

³⁴ This figure also includes a request from the institutions (primarily the ETHZ) to participate in activities under ACTRIS.

³⁵ Consortium comprising the universities of Basel, Bern, Geneva, Lausanne, Neuchâtel and Zurich, the EPFL and the SAHS.

³⁶ Università della Svizzera italiana.

³⁷ It was proposed that SILECS (coordinated with France) should feature in the 2018 ESFRI Roadmap but it was not selected.

⁷ <https://sagw.ch/dasch/>

⁸ Abstract from the SERI letter (13.03.19): "Aus diesem Grund liegt spätestens ab 2021 auch die Kompetenz beim SNF, weitere Abklärungen bzgl. der Organisation einer möglichen Beteiligung der Schweiz am DARIAH ERIC als Beobachter nach Absprache mit dem SBFI durchzuführen. Das SBFI erwartet diesbezüglich einen Austausch zwischen den Akademien und dem SNF" (p. 2).

⁹ See https://www.sbf.admin.ch/dam/sbf/en/dokumente/2019/04/roadmap-21-24.pdf.download.pdf/roadmap_2019_e.pdf

At the DARIAH GA in November, six Swiss academic institutions have renewed their cooperating partnership with DARIAH for 2 years: SAHS, UNIBAS, UNIBE, UNIGE, UNIL, UNIZH. At the DARIAH GA planned in November 2020, either Switzerland will submit its file to become an observer member, or EPFL, UNINE and SIB will have to renew their cooperating partnership for two years; the consortium DARIAH-CH, in its present form, comes to an end on the 31.12.20.

On the 9th of December, the DARIAH-CH consortium has met in Bern under the lead of the SAHS. The SNSF has confirmed its interest to lead the Swiss application as DARIAH observer member, with DaSCH and all the Swiss DARIAH cooperating partners. The file can be submitted at mid-April for the DARIAH GA of May, or at mid-October for the November GA. The SNSF is now waiting for news from the SERI and stays in contact with the DARIAH secretariat and Board of Directors for the formal steps. The DARIAH observer membership status runs usually for five years and is supposed to lead to a full membership.

Swissuniversities has also been consulted on this potential application and should answer early next year. The observer membership file must contain these four indications: names of the Representing Entity, National Representative, National Coordinating Institution and National Coordinator.

Last but not least, the DARIAH-CH consortium has also discussed again about the ERIC CLARIN: a potential joined full membership to DARIAH and CLARIN could be considered in the period 2021-2024. The next DARIAH-CH meeting will happen on the 18th of May 2020.

5.2 Description of the main July-December 2019 achievements

5.2.1 The DARIAH-CH consortium and guests

Composition of the DARIAH-CH consortium and other partners (December 2019):

	Institution	Department/Faculty	Contact email
1	SAHS (DARIAH cooperating partner; DARIAH-CH lead 2019-2020)	General Secretariat	DARIAH representative: Beat Immenhauser, beat.immenhauser@sagw.ch Markus Zürcher, markus.zuercher@sagw.ch

2	UNIBAS (DARIAH cooperating partner; DARIAH-CH member)	DHLab & DaSCH	DARIAH representative: Lukas Rosenthaler, lukas.rosenthaler@unibas.ch Erwin Zbinden, erwin.zbinden@unibas.ch Vera Chiquet, vera.chiquet@unibas.ch
3	UNIBE (DARIAH cooperating partner; DARIAH-CH member)	Faculty of Arts and Humanities	DARIAH representative: Tobias Hodel, tobias.hodel@wbkolleg.unibe.ch Michael Stolz, michael.stolz@germ.unibe.ch
4	UNIGE (DARIAH cooperating partner; DARIAH-CH member)	Research Department Faculty of Arts and Humanities	DARIAH representative: Laure Ognois, laure.ognois@unige.ch Béatrice Joyeux-Prunel, Beatrice.Joyeux-Prunel@unige.ch
5	UNIL (DARIAH cooperating partner; DARIAH-CH member)	DH center UNIL-EPFL Faculty of Arts and Humanities	DARIAH UNIL representative: Charlotte Mazel-Cabasse, charlotte.mazelcabasse@epfl.ch Michael Piotrowski, michael.piotrowski@unil.ch
6	UNINE (DARIAH cooperating partner; DARIAH-CH member and DESIR-CH team)	Faculty of Arts, Humanities and Social Sciences	DARIAH representative: Matthieu Honegger, matthieu.honegger@unine.ch Simon Gabay, Simon.gabay@unine.ch
7	UNIZH (DARIAH cooperating partner; DARIAH-CH member)	Institute of Computational Linguistics	DARIAH representative: Martin Volk, volk@cl.uzh.ch Marianne Hundt, m.hundt@es.uzh.ch
8	EPFL (DARIAH cooperating partner; DARIAH-CH member)	DH Center UNIL-EPFL DARIAH scientific board	DARIAH EPFL representative : Frédéric Kaplan, frederic.kaplan@epfl.ch Sarah Kenderdine, sarah.kenderdine@epfl.ch

9	SIB (DARIAH cooperating partner and DESIR-CH team H2020 OPERAS-P DARIAH LTP; guest)	Digital Humanities +	DARIAH representative : Claire Clivaz, claire.clivaz@sib.swiss Sara Schulthess sara.schulthess@sib.swiss
10	SNSF (guest; in progressive lead of DaSCH and of the relationship to DARIAH in 2019-2020)	SSH Division	Brigitte Arpagaus brigitte.arpagus@snf.ch Pierre Willa pierre.willa@snf.ch
11	Swissuniversities (guest)	Secretariat P5	Axel Marion axel.marion@swissuniversities.ch Gabi Schneider, gabi.schneider@swissuniversities.ch

5.2.2 Actions and events DESIR-CH in July-December 2019

5.2.2.1 Employees

University of Neuchatel: in December, Elodie Pauge has joined Simon Gabay as DESIR UNINE employee, under the lead of Matthieu Honegger; SIB: Martial Sankar has left SIB in July; Sara Schulthess has consequently raised her percentage of work for DESIR in the last months, under the lead of Claire Clivaz.

5.2.2.2 Events and actions

Collaboration with the WG DIMPO: Sara Schulthess has prepared a trilingual inquiry on digital practices in theological and religious studies in link with the DARIAH DIMPO¹⁰ working group: <https://surveys.dcu.gr/index.php?r=survey/index&sid=359463>. DIMPO is focusing on specific fields for its next step of development. The survey has been forwarded by Thomas Schlag to the Faculty of theology and religious studies in Zurich; Sara Schulthess is preparing a first overview of the results for him. The inquiry has also been forwarded to the Faculty of theology in Basel and proposed to the Faculty of theology in Bern. After the 31st of December, funds would be needed to pursue this survey and extend it to other fields.

¹⁰ <https://www.dariah.eu/activities/working-groups/wg-digital-methods-and-practices-observatory-dimpo/>

Collaboration with the WG Women Writers in History: Sara Schulthess has selected a series of Swiss women writers to present them in the DARIAH database Women Writers in History¹¹. She has got the access to it. After the 31st of December, funds would be needed to pursue this action.

H2020 OPERAS-P: the project H2020 OPERAS-P has been successful and the SIB has signed an agreement with DARIAH as linked third party¹² in this project focused on Open Access and scholarly communication. Claire Clivaz and Sara Schulthess will collaborate in the WP 6.5 future scholarly writing, in close collaboration with DARIAH as direct partner. Claire Clivaz is also associated to WP2 and has transmitted information to the SNSF/DaSCH about the modalities of participation to the future AISBL OPERAS and its ESFRI application. At the moment, the SNSF will simply follow OPERAS activities without becoming a partner; moreover, the SNSF is already member of OAPEN, an OPERAS partner.

DESIR final event in Zagreb: Claire Clivaz has attended the Zagreb DARIAH meeting on the 6-7 November and presented a brief survey of the relationship between DARIAH and CH from 2013 until today, and the future step under the lead of SNSF/DaSCH. DARIAH has presented to the Zagreb participants SSHOC¹³ and EOSC¹⁴; DARIAH is an important actor of SSHOC.

DARIAH communication group: Claire Clivaz has joined the new DARIAH communication group for CH (one skype/month); she is also the national moderator for CH of the DH courses registry¹⁵, a common tool to DARIAH and CLARIN.

DARIAH DESIR workshop, 5-6 December, Neuchâtel: Sara Schulthess and Simon Gabay, with a committee of young scholars, have organized a great final DESIR event in Neuchâtel, "Sharing the Experience: Workflows for the Digital Humanities¹⁶". 33 people have attended the workshop, as speakers, chairs or auditors. The proceedings will be published on DARIAH campus.

Invited speakers: Erzsébet Toth-Czifra (DARIAH); Bernard Loup (Strasbourg, France); Toma Tasovac (DARIAH, board director).

Selected papers: Marc Aeberle (UNINE), Helena Bermúdez Sabel (UNIL), Francesca Dell'Oro (UNIL), Fabrice Flückiger (UNINE), Martin Grandjean (UNIL), Tobias Hodel (UNIBE), Henrike Hoffmann (ETH), Jan Kassel (Leipzig), Moritz Maehr (ETH), Paola Marongiu (UNIL), Mina Monier (SIB), Elisa Nury (UNIGE), Simone Rebora (UNIBAS), Violeta Seretan (UNIL), Marco Vespa (UNIFR), Daniella Zetti (ETH).

Organizers, chairs, auditors: Francesco Beretta (CNRS), Vera Chiquet (UNIBAS), Claire Clivaz (SIB), Simon Gabay (UNINE), Regula Graf (SNSF), Béatrice Joyeux-Prunel (UNIGE), Martin

¹¹ <https://www.dariah.eu/activities/working-groups/women-writers-in-history/>

¹² <https://www.dariah.eu/2019/12/11/launch-of-operas-p-project/>

¹³ <https://sshopencloud.eu/>

¹⁴ <https://www.eosc-portal.eu/>

¹⁵ <https://dhcr.clarin-dariah.eu/>

¹⁶ <https://dariah-ch-ws19.sciencesconf.org/>

Kurz (UNIZH), Ursula Loosli (UNIBE), Elodie Paupe (UNINE), Jean-Claude Rebetez (Evêché, Bêle,), Sara Schulthess (SIB), Elena Spadini (UNIL), Claudia Sutter (UNIZH), Kathi Woitas (UNIZH).

The two DARIAH DESIR workshops organized in Neuchâtel have stimulated the DH in this institution that has become a DARIAH cooperating partner during the DESIR project. Matthieu Honegger is constantly trying to raise interest and support to open a DH position in his Faculty. In 2019, two new DH professors has been nominated in the Faculty of Human Sciences in Bern, Tobias Hodel, and in the Faculty of Arts and Humanities in Geneva, Béatrice Joyeux-Prunel. Both have attended to the workshop in Neuchâtel.

5.3 General roadmap: the next steps

The SNSF/DaSCH is leading the next step of the Swiss application for observer member, in link to the SERI and in partnership with all the DARIAH-CH members and guests. Swissuniversities support has also been requested.

The Swiss Roadmap for Research Infrastructures in view of the 2021-2024 ERI Dispatch mentions DARIAH as rated A in the Swiss priorities, under the lead of the SNF, with resources still to be defined (see 5.2.1). The final acceptance of this roadmap will happen in next December at the Swiss parliament, but the budget has to be fixed, of course, quite earlier.

All the DARIAH cooperating partners are encouraged to develop activities in partnership with DARIAH or about DARIAH, like the next roundtable in Geneva on the 18th of December; information and inscription: <https://www.euresearch.ch/en/events/event-detail/showUId/1025/>

Partnership and projects with DARIAH presented in 5.2.2.2 will continue in the measure of the available funds and depending on the model adopted for National Coordinator position. In the line of DESIR, the following activities could be figured:

- Actives participations of Swiss researchers in the DARIAH working group (DIMPO, NEM, etc.);
- Annual Swiss workshop for PhD students and post-doc on DARIAH and DH projects;
- Swiss presence in the DARIAH communication group and the DH registry;
- Networking about data preservation and curation between DaSCH, DARIAH and SSHOC;
- Networking about data preservation and curation between DaSCH and Huma-Num (DARIAH-FR): Nakala, HAL and Isidore;
- Discussion with DARIAH about the possibility to welcome once the DARIAH annual meeting in CH, as observer member.

6. THE UNITED KINGDOM

This report provides an overview of the last 6 months of activities undertaken by the two UK beneficiaries in the DESIR project as well as an overview of progress for the UK in sustaining DARIAH across the DESIR project lifecycle.

6.1 Activities

6.1.1 Glasgow Workshop

On October 8th, 2019 a DESIR workshop focused on peer-review of digital outputs took place at Glasgow Women's Library, in Glasgow. This workshop discussed how digital outputs can be assessed and peer reviewed, particularly in the context of the REF 2021 guidelines, and how community initiatives like the UK DH Association can provide strategic input to the REF assessment panels. We used the workshop to discuss the issues relating to digital outputs going forward for REF and worked towards a checklist which can be used by researchers submitting digital outputs, which can be shared widely and with resonance beyond the REF context, for example in the broader peer review of DH research for tenure, promotion, and assessment. We discussed existing frameworks and checklists relating to digital outputs, including a document created by Arianna Ciula at King's College London (<https://zenodo.org/record/3361580#.XabrFudKjza>), and an initiative to develop guidelines for researchers at Glasgow was also discussed. The event also focussed on the US based Advanced Research Consortium, ARC, as a model that could be applicable across emerging European activities in this area. This has specific nodes focussed around key research areas, including NINES, 18th Century Connect, and MESA: <http://ar-c.org/nodes-2/>.

The workshop discussed existing guidelines and REF panel procedures in relation to the UK DH community's specific processes for assessing digital outputs and discussed how our findings can be fed back to HEFCE (who administer REF in the UK).

The content generated from the workshop is relevant in a European context, and within DARIAH, which is undertaking a specific task on the values underpinning peer review, and how to better translate them into open science contexts in the new OPERAS-P project. Indeed, many of the issues raised relating to peer review processes of digital outputs and knowledge exchange between DH specialists and those who peer review them have global significance in DH. It also aligns with the wider international HE context for the growth and development of digital humanities research, funding and collaboration. The motivation to develop, in particular, a clear and robust framework for assessing digital outputs is key to the health of digital humanities research. While individual institutions have their own plans for REF, the workshop was a collaborative event and demonstrates the commitment to sharing knowledge, goals and good practice across institutions engaged with digital humanities research. The openness and willingness to share and communicate methods and

results is a core strength of digital humanities research and should be encouraged at an institutional and funding level.

The workshop and the resulting dialogue within and between the institutions represented will continue within the framework of the UK DH Association.

Attendees included:

- Professor Lorna Hughes (University of Glasgow)
- Professor Marc Alexander (University of Glasgow)
- Dr Rachel Opitz (University of Glasgow)
- Professor Laura Mandell (Texas A&M)
- Dr Paul Gooding (University of Glasgow)
- Dr Kirstie Wild (University of Glasgow)
- Dr James Smithies (King's College London)
- Dr Arianna Ciula (King's College London)
- Professor Jane Winters (School of Advanced Study, University of London)
- Dr Hilary McCartney (University of Glasgow)
- Dr Tim Duguid (University of Glasgow)
- Professor Dauvit Broun (DB) (University of Glasgow)
- Dr Stephen Reid (University of Glasgow)
- Dr Diane Scott (University of Glasgow)

Items on the agenda included:

- 13.00-13.15 Welcome and scene setting from Professor Lorna Hughes & Professor Marc Alexander (University of Glasgow)
- 13.15-14.15 Workshop session 1: Peer Reviewing Digital Outputs
- 14.30-15.30 Workshop session 2: Brainstorming a checklist
- 15.30 Feedback and Wrap-up

As mentioned above, KDL presented its Checklist for the assessment of digital outputs within the UK Research Evaluation Framework (<https://zenodo.org/record/3361580>) published in August 2019.

6.1.2 SDLC Project Templates

DESIR contributed to student (Simona Stoyanova) support and supervision for the publication of the KDL SDLC templates, available since November 2019 at:

<https://github.com/kingsdigitallab/sdlc-for-rse/wiki>.

This work entailed making KDL Software Development Life Cycle available as a reusable toolset for other Research Software Engineering units (including DH teams in other DARIAH countries and cooperating partners).

In particular it involved:

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- Recreating KDL document templates in a way that makes them easily reusable by other institutions;
- Developing accompanying guidance documents on how to get the best out of each stage;
- Creating/recreating schematic representations of the SDLC workflow;
- Illustrating the respective roles and responsibilities of the RSE team members, (Analyst, Developer, UI/UX etc.) and sharing best practice around career development.

These guidelines are now published as an evolving work (the documentation is under version control), open to community contributions (and in a non-proprietary format for easy reuse), in a form that can be browsed and downloaded if needed.

6.1.3 London Workshop

A workshop on “Research Software Engineering and Digital Humanities: Role of Training in Sustaining Expertise” was organised in collaboration with DESIR WP7 in London on the 9th of December¹⁷.

This one-day workshop brought together experts working at the intersection of Digital Humanities and Research Software Engineering in the UK and Europe for a day of discussions around RSE models, training practices and exchange of ideas. The workshop further showcased Digital Research Infrastructure for the Arts and Humanities (DARIAH)’s ongoing work and future plans as well as training platforms as a vehicle enabling dissemination of Digital Humanities training at all levels of expertise, for sharing and discussing information and establishing best practices in DH in a range of formats.

Speakers and attendees included representatives from:

- Berlin-Brandenburgische Akademie der Wissenschaften (Germany)
- Cambridge University (UK)
- Cologne University (Germany)
- Edinburgh University (UK)
- Exeter University (UK)
- King’s College London (UK)
- School of Advanced Studies, University of London (UK)
- Sussex University (UK)
- The British Library (UK)
- Trinity College Dublin (Ireland)
- Utrecht University (Netherlands, joining remotely)

¹⁷ See full programme at <https://www.kdl.kcl.ac.uk/events/research-software-engineering-digital-humanities/>

Items on the agenda included:

1. Role of infrastructures in sustaining RSE expertise
2. Presentations from DARIAH, CLARIN
3. Best practices adopted in established RSE for DH teams
4. Presentations from Cambridge Digital Humanities, Exeter Digital Lab, King's Digital Lab, School of Advanced Studies (University of London), Sussex Humanities Lab
5. Role of training platforms in delivering training and disseminating expertise
6. Presentation of DARIAH-Campus
7. The future of the RSE community in the UK and Europe
8. General discussion; plans for the publication of "KDL Handbook", future RSE training courses

During the workshop, best practices adopted by different RSE for DH teams as well as challenges facing RSE for the DH community were presented and discussed in an informal yet structured setting. Representatives from Cambridge Digital Humanities, CLARIN-ERIC, Exeter Digital Lab, King's Digital Lab, School of Advanced Study, Sussex Humanities Lab and TELOTA at Berlin-Brandenburg Academy of Sciences gave informal presentations and answered questions from colleagues in the audience. Discussions centered around the way DH labs in the UK and Europe are organised, on how team roles are profiled and institutional contexts set up.

Major challenges identified by participants were:

- 1) Need for a clear RSE career path; education, recruitment and retention of a new generation of RSEs, especially in the Humanities and cultural heritage sectors;
- 2) The importance of domain-specific knowledge in RSE roles: to what extent are expertise of and challenges facing "RSEs for DH" different from those of RSEs working in other disciplines?
- 3) Challenges linked to developing, implementing and managing a Software Development Lifecycle (SLDC) that would be appropriate for the institutional context, the size and composition of the team, the nature of projects etc.;
- 4) Issues around sustainability and life of DH projects beyond the funding period.

Support for developing and maintaining expertise in RSE for DH, including provision of sustainable online training platforms, from European infrastructures was discussed in presentations by representatives of CLARIN-ERIC and DARIAH.

Some of the outcomes of the workshop:

- Interest in further workshops in RSE for DH and RSE training;

- Raising awareness of the community around DTech White paper <https://dh-tech.github.io/dhrse-whitepaper> and the proposed Alliance for Digital Humanities Organisations SIG in RSE;
- Continued discussion around setting up a UK-Ireland Network on DH with a working group focused on sustaining RSE expertise.

6.1.4 RSE Training

In addition to coordinating the workshop above in collaboration with WP7, KDL DESIR Digital Methods Lead Natasha Romanova presented DARIAH project and teaching resources to the Department of Digital Humanities students at King's College London on 15 October 2019 and refined training materials for publication on the forthcoming DARIAH Campus Platform. In particular the material created by KDL as part of the AHRC-funded MaDiH (مديح): Mapping the Digital Cultural Heritage in Jordan Project¹⁸ Research Software Engineering Training workshop held in July 2019 (see <https://www.kdl.kcl.ac.uk/blog/madih-research-software-engineering-rse-training-london/>) was edited for publication and adapted to the DARIAH templates for inclusion in DARIAH Campus (forthcoming)¹⁹.

6.2 Overview of Progress

During the course of the project, UK DESIR focused on sustaining:

- National partnerships mainly via the support of bootstrapping activities directed at establishing a national consortium in the form of a UK Digital Humanities Association under the auspices of the School of Advanced Study (now a DARIAH co-operating partner) (see project report months 7-12 for more details on the first UK DESIR workshop focused on the UK DH Landscape held in London in November 2017 and report for months 24-30 for the DESIR strategic meetings led by Glasgow and held in London in May and June 2019). The map in figure 1 showcases the location of institutions involved in the UK DESIR activities throughout the project lifecycle.
- National policy with respect to research infrastructures (see in particular report for months 13-18 for an overview of the strategic meeting involving key stakeholders organised by the University of Glasgow in 2018) which led to input and feedback to the national UKRI research infrastructure road mapping exercise²⁰ and inclusion of

¹⁸ <https://data.kdl.kcl.ac.uk/organization/madih>

¹⁹ Note that this work is completed from KDL perspective but awaits vetting from DARIAH. Should DARIAH Campus platform not be able to ingest the material, it will be published in another platform by summer 2020.

²⁰ See <https://www.ukri.org/research/infrastructure/> and in particular the two reports <https://www.ukri.org/files/infrastructure/landscape-analysis-final-web-version/> and

digital humanities research infrastructures such as King's Digital Lab in the national online portal (<https://www.infracportal.org.uk/>);

- Partnership with DARIAH and in particular:
 - Moving from 2 UK based co-operating partners at the start of the DESIR project to 5 partners (the University of Lancaster was confirmed as new co-operating partners at the Zagreb General Assembly in November 2019);
 - Sample contributions to DARIAH infrastructure which include the recently published KDL project templates and the KDL Checklist for the assessment of digital outputs.
 - Activities to sustain expertise undertaken by DESIR KDL Digital Methods Lead as mentioned above.



Figure 3 - Sustaining national partnerships: towards a national consortium (Neil Jakeman and Arianna Ciula, DESIR final event, Zagreb 2019).

<https://www.ukri.org/files/infrastructure/the-uks-research-and-innovation-infrastructure-opportunities-to-grow-our-capacity-final-low-res/>, the latter published just prior the DESIR final event and integrating recommendations made the UK beneficiaries for the SSH sector and over RIs remit.

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6.3 General roadmap

With respect to the activities and timetables proposed in deliverable 3.2, activities were completed as planned with some minor changes in schedule and scope as per this updated roadmap:

Time	Activity	Comments	Progress
Summer-Autumn 2017	Plan and organise two workshops	Workshop 1 – completed Workshop 2 - completed	✓ ✓
Autumn 2017	Analysis of relevant DH@SAS survey and interview questions	DESIR team also invited to add questions to the survey and interview process. Survey and interviews completed with a slight delay.	✓
Autumn-Winter 2017	London Workshop takes place	Completed with 51 delegates and 30 institutions. Consolidated feedback informs structure of Glasgow workshop.	✓
Winter 2017-2018	Analysis and integration of DH@SAS and London workshop outcomes	Landscape report made available. Positioning of potential UK network as interlocutor with respect to DARIAH accession. School of Advanced Study (University of London) application as co-operating partner	✓ ✓

Time	Activity	Comments	Progress
Spring 2018	Glasgow Workshop	Arranged for April 19th. Secured representation from DARIAH and CLARIN directors. Workshop was planned to be followed by public lecture by Pier Luigi Sacco on EU digital cultural heritage.	✓
Summer - Winter 2018	Refine potential models of participation for UK in DARIAH	<p>Definition of modes of engagement with European digital RI community and DARIAH based on the DH national agenda and aligning to DARIAH strategy, e.g.:</p> <ul style="list-style-type: none"> - University of Exeter application as co-operating partner: approved May 2019. - Contribution to DARIAH National document. 	<p>✓</p> <p>✓</p> <p>✓</p>

Time	Activity	Comments	Progress
Summer 2018 - Winter 2019	Sample contribution to DARIAH infrastructure.	KDL sharing of SDLC project templates (PhD researcher hired to assist with conversion)	✓
	Contribute to working group for the proposal and set up of a national DH organisation	- University of Lancaster application as co-operating partner. 3rd DESIR funded	✓
		- London workshop to define the statutes and form of a UK association in May 2019;	✓
		- follow on stakeholder meeting in June 2019.	✓
September 2018	DESIR update at Sheffield DHC following Jennifer Edmond's closing keynote.		✓
January 2019	Participation in high level UK Research Council meetings for UK RII roadmap	KCL response sent in February 2019	✓
March 2019	DESIR WP2 workshop in Canberra, Australia.	KCL took part to share models of Research Software Engineering in DH setting.	✓
	EURISE workshop in Utrecht.		✓

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Time	Activity	Comments	Progress
April 2019	UKRI call for RII investment	KDL took part in 3 submissions (dialogue with UKRI ongoing)	✓
December 2019	DESIR WP7 funded workshop in the UK on "Research Software Engineering and Digital Humanities: The Role of Training in Sustaining Expertise" RSE training content to be published.	DESIR KDL Digital Methods lead hired from 15 July 2019. Meeting with DARIAH training officer and Director held in summer 2019. RSE training material ready for publication. WP7 Workshop - completed	Waiting for DARIAH vetting ✓
Forthcoming	Jointly facilitated SAS/British Library/DESIR-UK event for the formal launch of the UK association Setting up of web presence and special interest groups for the associations. Continuous input to UKRI Research Innovation and Infrastructure roadmap. Join DARIAH accession working group.	Meeting between UK and Ireland DH colleagues including DARIAH representatives held in December to plan AHRC bid (likely deadline in February 2020 for funding to be active winter 2020-22) to sustain works of the associations in the two countries. Update due after February 2020.	Ongoing