

PARTHENOS

Pooling Activities, Resources and Tools
for Heritage E-research Networking,
Optimization and Synergies

Final Communication Report

KNAW-NIOD, CLARIN, FHP, PIN

31 October 2019



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Executive Summary

This deliverable presents the work of PARTHENOS Work Package (WP) 8 “Communication, dissemination and outreach” during the final year of the project (May 2018 – April 2019) and its half year extension (May – October 2019). The document builds on four earlier deliverables; D8.2 *Initial Communication Plan* was produced in July 2015 and laid the foundation for our communication, dissemination and outreach strategy. While constantly adjusting our approach to the evolving project status, three updated versions to that document were produced: the first time in July 2016 – D8.3 *First Year Communication Report, and Updated Communication Plan* – the second time in July 2017 – D8.4 *Second Year Communication Report, and Updated Communication Plan* – and the third time in July 2018 – D8.5 *Third Year Communication Report, and Updated Communication Plan*. Whereas the *Initial Communication Plan* presented an overall dissemination and communication strategy, and provided a detailed plan of relevant activities for the project’s first year, the *First-, Second- and Third Year Communication Reports* reflected on the implementation of the *Initial Communication Plan* during the project’s first, second and third twelve month periods, proposed minor corrections to the overall strategy, and set out our plans for each oncoming year.

The general objectives of PARTHENOS WP8 have been to:

- disseminate effectively the project goals and outcomes;
- set up efficient tools for the communication towards various stakeholders (scientific communities, professionals, decisions makers, public, etc.);
- exploit synergies in liaisons and collaborations.

The present document demonstrates that, over the course of the past twelve months, we generally continued to meet our objectives in running communication *operations*. Similarly, we’ll show how our strategy served us well during the additional six months of the extension. The document presents an overall assessment of both the success of our existing communication and dissemination strategy, as well as necessary revisions, resulting from



our development towards this more sustainable information structure (section 2). Also, all relevant dissemination and communication activities in the fourth year are reported on in greater detail (section 3). Additionally, a quantitative assessment of our activities against the evaluation criteria set in the *Second Year Communication Report* is provided (section 4).

Additionally, we felt that two additional categories of activities fulfilled such an important role within the project that they deserved to be included in this report. The first one is an overview of the work that has been done within the task which investigated how international liaisons are formed and can be optimally benefited from (Appendix A). The second one is an overview of the additional activities that took place during the extension, including a report on the impact we made during this six-month time frame (Appendix B).



1 Introduction

The PARTHENOS project was premised upon a collaboration of sixteen partners from nine European countries, comprising the two European Strategy Forum on Research Infrastructures (ESFRI) European Research Infrastructure Consortia (ERICs) active in the broad fields of the humanities – DARIAH and CLARIN – as well as institutions active in European research infrastructure projects – ARIADNE, CENDARI, CHARISMA/IPERION-CH, EHRI and DCH-RP. Marshalling such a comprehensive consortium, the PARTHENOS project has aimed to:

- increase the cohesion of research sectors in the field of Language Studies, Digital Humanities, Cultural Heritage, History, Archaeology and related fields;
- define and implement common guidelines and best practices enabling cross-discipline data curation policies;
- establish a vision about shared virtual research methods for humanities supported by foresight studies;
- mainstream standardization and interoperability in order to support data sharing and re-use;
- develop common tools for data-oriented services.

All these high-level aims have been critically dependent upon successful collaboration between disparate infrastructures to increase their cohesion, interdisciplinarity and interoperability. Therefore, a coordinated and comprehensive approach to dissemination and communication has been crucial for the project to achieve its aims and to maximise its impact.

Work package (WP) 8 was charged with planning, coordinating and implementing all of the project's communication and dissemination activities. In month three of the project, it delivered a comprehensive *Initial Communication Plan*¹ that:

- set out PARTHENOS' overall communication and dissemination strategy;
- identified the project's stakeholder communities;

¹ See Reto Speck et al. "D8.2 Initial Communication Plan", *PARTHENOS Deliverable*, July 2015, DOI: 10.5281/zenodo.2668220.



- presented a set of core communication messages;
- analysed the communication resources available to the project;
- described the project's own communication channels and dissemination materials that are to be produced by the project;
- listed external dissemination opportunities;
- and set evaluation targets for the first twelve months.

This plan was revised and expanded in the deliverables *First Year Communication Report*² – submitted in M15 – *Second Year Communication Report*³ – submitted in M27 – and *Third Year Communication Report*⁴ – submitted in M39.

The present document reports on the implementation of the revised plan during the fourth year of the project (May 2018 - April 2019). Since this is also the final year of the project, the deliverable does not contain any planned communication and dissemination activities for the future. However, as requested in the PARTHENOS Extension Proposal (submitted Summer 2018), six additional months (May – October 2019) were used after the original project deadline for communication, dissemination and outreach activities. This report also covers the activities that took place during this period.

As in previous reports, the deliverable presents an overall assessment of the success of the communication and dissemination strategy we have adhered to (section 2); reports in detail on all relevant dissemination and communication tasks in the fourth year (section 3) and it provides a quantitative assessment of our activities against the evaluation criteria set in the *Third Year Communication Report* (section 4). Under two appendixes, we report on all the work that was conducted under the task that looked into the intricacies of international collaboration (Appendix A) and on the additional activities that took place during the extension, including the impact that was generated as a result (Appendix B).

² See Reto Speck et al. “D8.3 *First Year Communication Report, and Updated Communication Plan*”, PARTHENOS Deliverable, July 2016, DOI: 10.5281/zenodo.2668220.

³ See Reto Speck et al. “D8.4 *Second Year Communication Report, and Updated Communication Plan*”, PARTHENOS Deliverable, July 2017, DOI: 10.5281/zenodo.2668230.

⁴ See Frank Uiterwaal et al. “D8.5 *Third Year Communication Report, and Updated Communication Plan*”, PARTHENOS Deliverable, July 2018, DOI: 10.5281/zenodo.2668343.



2 Overview communication and dissemination strategy

The overall communication and dissemination strategy outlined in the *Initial Communication Plan* and revised in the *First, Second and Third Year Communication Report* has served PARTHENOS well throughout the project. As will be shown in more detail in section 4, following this strategy has enabled us to reach, and even exceed, most of the targets set for the past 48 months. Also, during the extension period of six months, the communication strategy served its purposes.

Over the past four and a half years, however, this strategy has also been recalibrated to adjust to both the phase the project was in and to newly observed lacunae and opportunities. In this section, we will recapitulate in brief the main elements of our overall strategy – objectives, high-level communication and dissemination principles, stakeholder groups and tailored messages – and indicate, where relevant, how these were adjusted over the years.

2.1 Overall objectives

The PARTHENOS Description of Action defined three overall objectives for the project's communication and dissemination activities:

1. to disseminate effectively the project goals and outcomes;
2. to set up efficient tools for the communication towards various stakeholders (scientific communities, professionals, decisions makers, public, etc.);
3. to exploit synergies in liaisons and collaborations.

In order to achieve these general objectives, the *Initial Communication Plan* defined five specific objectives:

1. to identify and involve internal stakeholders within the partner organisations;
2. to create an affiliate network of external stakeholders (research infrastructures and networks in related fields);



3. to ensure that PARTHENOS reaches the core scientific communities in language studies, digital humanities, digital heritage, archaeology and history, as well as professionals in related fields;
4. to raise awareness about PARTHENOS amongst policy makers, funding bodies and major related public institutions;
5. to devise a strategy to involve the general public and attract non-professional audiences.

As will become clear throughout this report, we have continued to meet most our goals and most of their underlying KPI's. This means that our products and services will enter the future with a community around them. Over the years, we have greatly appreciated building this community and we experienced how events, such as our workshops and webinars, helped to create awareness around them. In that light, it feels slightly wry that we will be halting our dissemination efforts per the end of this month. However, we are confident that the foster parents of our products and services (as defined and agreed in the sustainability planning) will take over with full dedication.

Over the years, some adjustments have been made to the strategy outlined above. Now that the project is approaching its end, an overview can be provided of how the course of our communication strategy has been adjusted per year:

Year 1: References to “linguistic studies” have been changed to “language studies”. While language is of course the primary focus of linguistics, “language studies” was considered more all-encompassing when developing products and services for the analysis of text which might also be relevant to, e.g., historians.

Year 2: In this year, the focus shifted more towards the “exploitation of synergies”. This was originally done in close alignment with other European Research Infrastructures. During the third year, PARTHENOS also started partaking in calls with communications professionals from various Research Infrastructures as well outside the Humanities.

Year 3: During the third year, it became clear that a deeper underlying abstract notion of the project started to emerge. As this is something we felt was deserving of concretisation, we



started writing a more theoretical paper on the rationality behind the project as a whole. This is something we have started to work on in the third year of PARTHENOS in close collaboration with all the different Work Packages. Also, we started making preparations for solidifying our website, bearing in mind that the project has a limited lifespan. This meant that our products and services were given a more central place within our website (known as the Portal) while the project news moved slightly more to the background. The reason for this is that the latter will cease to be updated when the project is finished, whereas the tools we built will remain relevant to our stakeholders.

Year 4 and six-month extension: During year 4 and the extension period, the initial re-design of the website has been completed, putting our tools, such as the Training Suite and the Standardization Survival Kit, at the forefront of our website. As more products were finished, opportunities also arose for the organisation of workshops to increase further adoption. Coordinated dissemination and training efforts were – to a large extent – also the primary focus of the six-month extension period, as will become clear in this report. While in other years presence at conferences and events was already important, we did our very best during the extension to further increase our efforts.

2.2 Communication and dissemination principles

The *Initial Communication Plan* specified five core communication and dissemination principles that have informed our activities over the course of the project:

1. **Adaptability.** Given the scope of the project and the specific themes involved, the communication strategy needs to be comprehensive enough to cover the project as a whole, while being adaptable to the project's various research themes and stakeholder communities. For example, specific channels are to be used to reach particular target groups, and dissemination materials may have to be tailored to the needs of different end users.
2. **Flexibility.** As per the previous pillar, PARTHENOS' communication needs to be flexible and open, in order to create a responsive framework to changing needs and challenges.



3. **Dynamism.** The dynamic element is the natural consequence of the two points above. A dynamic strategy is key to maximising the impact of PARTHENOS.
4. **Tailoring of messages/usage of appropriate language.** As stated above, PARTHENOS needs to be able to speak to academic audiences in a variety of fields, as well as to decision makers and the public at large. To achieve this, PARTHENOS will follow a multi-layered communication strategy that formulates core messages tailored to the needs and expectations of the various target audiences, and expressed in appropriate language (specialised, technical communication vs. plain, jargon-free communication).
5. **Exploitation of synergies:** PARTHENOS is a clustering project across existing Research Infrastructures, integrating initiatives and e-infrastructures in the fields of Digital Humanities, Cultural Heritage, History, Language Studies⁵, Archaeology and related fields. As such, the project can draw upon a plethora of expertise, networks and dissemination and communication channels that are already in existence at partner institutions and related projects and that can reach the specific subject communities with which PARTHENOS wishes to engage. PARTHENOS needs to exploit to the fullest the synergy that can be achieved by building bridges between these existing resources and must avoid a duplication of effort. Therefore, achieving better co-ordination and cross-fertilisation of existing communication and dissemination activities is central to PARTHENOS' mission.

As in the *First Year Communication Report*, the *Second Year Communication Report* and the *Third Year Communication Report* we have continued to work closely together with our internal and external partners to make the most out of our synergetic relationships. This has allowed us to cover the communication and dissemination principles above, sometimes multiple at the same time. While the project is approaching its end, additionally, the sustainability of our output also became ever more important. To illustrate adherence to the principles above and the importance of sustainability in our communication strategy, please see the two examples below of how we implemented our core principles:

⁵ In the *Initial Communication Plan* we referred to “Linguistic Studies” rather than “Language Studies”. We have since adopted the terminology for the reasons explained in section 2.4 below.

By making the most out of our synergies, PARTHENOS continued to collaborate in with CESSDA, CLARIN, DARIAH and SSHOC. This strategy was not only mutually beneficial online (by sharing partner news and project updates), but also created new, shared dissemination opportunities offline. The most notable examples of this are DH Nordic 2019 in Copenhagen and at DH2019 in Utrecht.



Figure 1: The CLARIN and PARTHENOS joint booth at DH Nordic 2019, 6-8 March, Copenhagen Denmark



Figure 2: The CESSDA, CLARIN, DARIAH, PARTHENOS and SSHOC joint booth at DH2019, 8-12 July, Utrecht NL

As mentioned earlier, on top of the five principles listed above, sustainability also became a very important aspect of our strategy. While a plan to maintain the PARTHENOS website after the project is finished was already in place, we wanted to find a more permanent solution for our documents as well. The envisioned solution should not only provide long-term archiving, but also offer the possibility of using a persistent identifier to refer to a document. FH Potsdam invested ample time and effort in the creation and maintenance of an environment on Zenodo where our documents are now safely stored. The sustainability of the other PARTHENOS outputs was also planned for and will be covered in the Final Periodic Technical report – Part B due by M56.



August 12, 2019 Other Open Access

PARTHENOS Guidelines to FAIRify data management and make data reusable

PARTHENOS; Hollander, Hella; Morselli, Francesca; Uiterwaal, Frank; Admiraal, Femmy; Trippel, Thorsten; Di Giorgio, Sara

Other(s)
Conrad, Anders; Degl'Innocenti, Emiliano; Giacomi, Roberta; Gilissen, Valentijn; Hanneschläger, Vanessa; Hedges, Mark; Illmayer, Klaus; Joffres, Adeline; Kraaikamp, Emilie; Madonna, Antonio Davide; Offersgaard, Lene; Puren, Marie; Ronzino, Paola; Sanesi, Maurizio; Spiecker, Claus; Svendsen, Michael; Tjalsma, Heiko; van Berchum, Marnix; Zierau, Eld

A comprehensive set of PARTHENOS Guidelines to FAIRify data management and make data reusable is focusing on the topic of common policies. This compact guide offers twenty guidelines to align the efforts of data producers, data archivists and data users in humanities and social sciences to make research data as reusable as possible based upon the FAIR Principles. Each guideline has recommendations for both researchers and archives as it is recognised that different priorities may apply to each case.

The guidelines result from the work of over fifty PARTHENOS project members. They were responsible for investigating commonalities in the implementation of policies and strategies for research data management and used results from desk research, questionnaires and interviews with selected experts to gather around one hundred current data management policies (including guides for preferred formats, data review policies and best practices, both formal as well as tacit).

Translations of the Guidelines are available in:
German: "PARTHENOS Leitfaden zur "FAIRifizierung" des Datenmanagements und der Ermöglichung der Nachnutzung von Daten" (<https://doi.org/10.5281/zenodo.3363078>)
Italian: "Linee guida per l'applicazione dei principi FAIR alla gestione e al riuso dei dati" (<https://doi.org/10.5281/zenodo.336324>)

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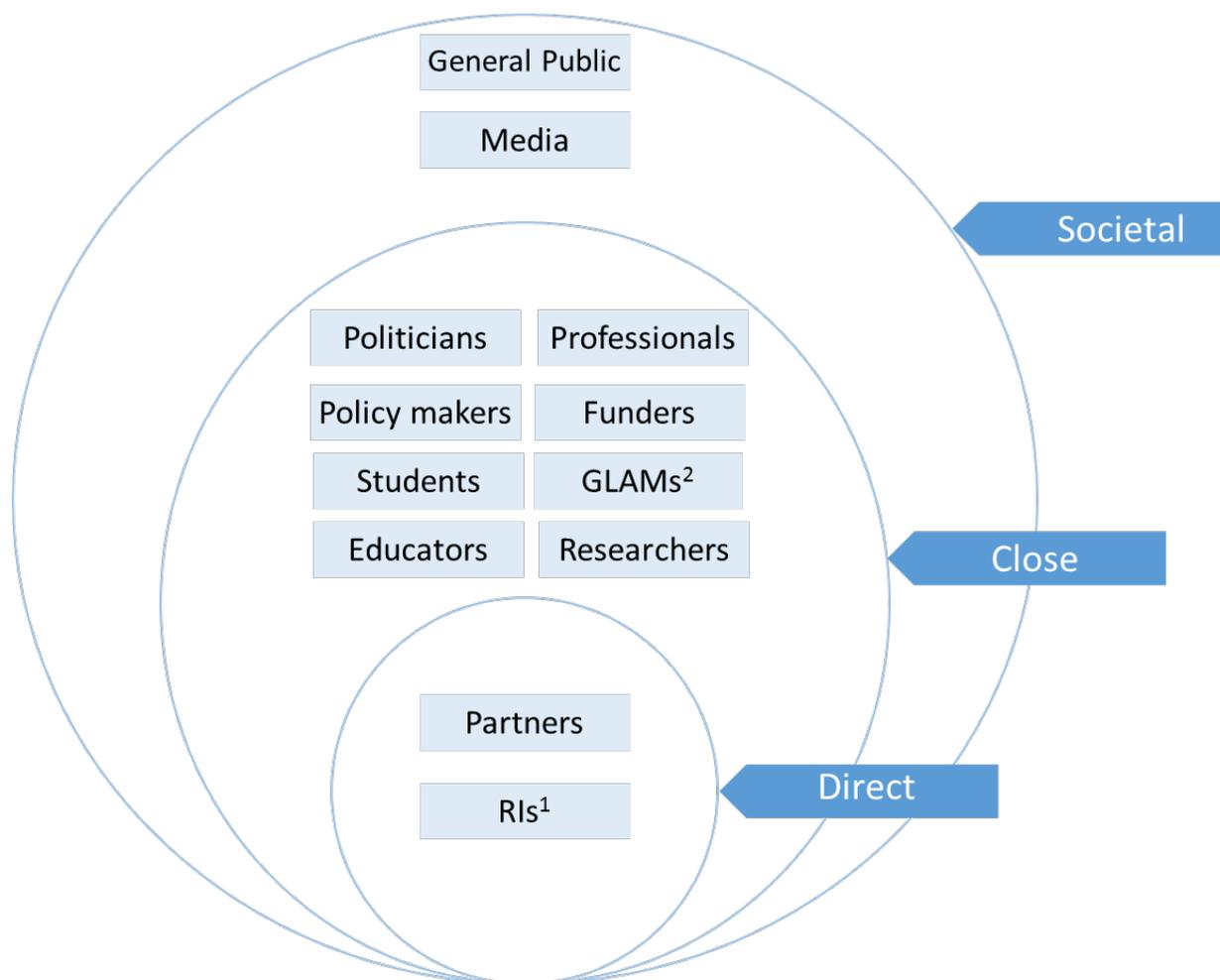
Keyword(s):

Grants:
[European Commission:](#)
• PARTHENOS - Pooling Activities, Resources

Figure 3: An item in the PARTHENOS Hub Repository on Zenodo

2.3 Stakeholder groups

The *Initial Communication Plan* identifies and analyses a set of stakeholder communities, and classifies these into three groups according to the influence and mutual dependence that exist between these communities and PARTHENOS. Figure 4: Stakeholder Map below provides a visual representation of our initial stakeholder analysis:



¹ Research Infrastructures

² Galleries, Libraries, Archives and Museums

Figure 4: Stakeholder Map

During the project’s past fifty-four months, we have not identified any additional stakeholder communities which merit inclusion in our stakeholder map, nor have we detected any major problems with our detailed stakeholder analysis. However, in our third year report we already found that the stakeholder group “researchers” is more diverse than we originally anticipated. As a result, the notion of citizen science became more strongly embedded throughout the different work packages of the project.

After a successful webinar in the previous year, organised by WP7, a special citizen science module was added to the Training Suite during the fourth year and the extension.⁶ Not only

⁶ See the ‘Citizen Science In The (Digital) Arts And Humanities’ module: <https://training.parthenos-project.eu/sample-page/citizen-science-in-the-digital-arts-and-humanities/>

does this module explain why contributing to science could be of interest to people outside academia. It also provides infrastructures with the knowledge needed to connect with citizen scientists.

Case Study: Selecting Resources for a Crowdsourcing Project

Prof. Melissa Terras discusses the process of selecting resources for large-scale crowdsourcing projects, such as the Transcribe Bentham project.

To find out more about the Transcribe Bentham project, click here: <https://blogs.ucl.ac.uk/transcribe-bentham/>



5 strategies to find your volunteers or get them engaged

Depending on the aim, scope and scale of Citizen Science projects, there are different strategies you can use to gather your team of non-expert contributors.

Figure 5: A screenshot from the Training Suite module Citizen Science In The (Digital) Arts And Humanities

The launch of these modules is another example of where the synergy between work packages has served us well. Firstly, as per usual, a launch is accompanied by a social media campaign.



Figure 6: A tweet to announce the release of a new module around the topic of citizen science

Also, the recent Impact Event (c.f. section 4.4.3) provided an excellent opportunity to present the new training material to a wider audience.

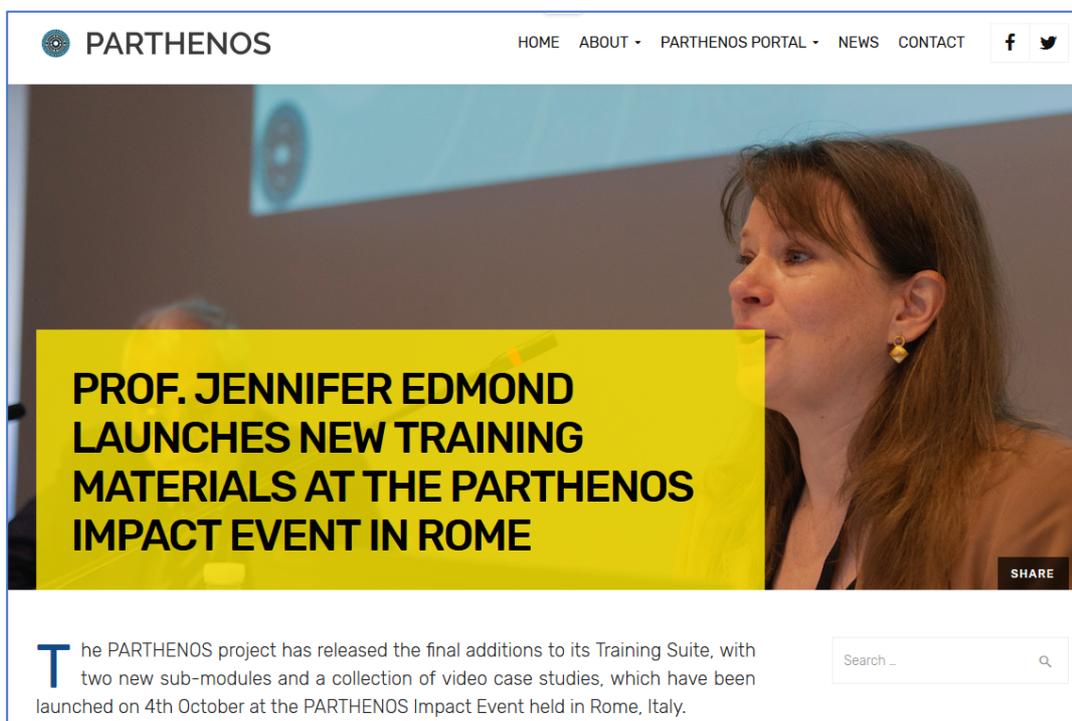


Figure 7: Dr. Jennifer Edmond launches new training materials during the PARTHENOS Impact Event



2.4 Tailored messages

The *Initial Communication Plan* defines five messages tailored towards the achievement of particular communication goals and towards particular stakeholder groups. These messages are:

- General message;
- Extended general message;
- Research and educational message;
- Jargon-free public message;
- Policy- and decision-maker message.

These messages have successfully informed our communication and dissemination activities during the first two periods, and do not require any significant revisions.

Additionally, PARTHENOS has always been mindful of the fact that the command of the English language varies among the countries where partner institutions are located. As in previous years, partners were invited to translate project output to the language of the country they are located in. Translation in itself is a time-intensive endeavour, but the following example shows that it can be done (just like the animation around the use of standards which was translated and dubbed in the third year).

One of the most important outputs of the project over its fourth year, has been the booklet entitled 'PARTHENOS Guidelines to FAIRify data management and make data reusable'.⁷ This collection of best practices in the realm of data management was collected by the input from PARTHENOS partners from a wide range of disciplines under Work Package 3 and published in D3.1. However, as we wanted to provide a more audience friendly publication around our observations, a twelve page booklet was designed and printed. Through close collaboration with our different international partners the booklet with PARTHENOS guidelines has now also been made available in Italian and German to increase its uptake. French, Greek and Hungarian versions are also close to completion.

⁷ See Hella Hollander et al. "*PARTHENOS Guidelines to FAIRify data management and make data reusable*", 1 December 2018, DOI: 10.5281/zenodo.2668479.



Figure 8: Announcement about “PARTHENOS Policy Guidelines” leaflet being available in Italian and German.

Sometimes not the language itself, but the brevity of it is an important aspect of communicating effectively. This was our motivation in releasing an executive summary of one of our deliverables. The PARTHENOS Foresight Study research conducted an elaborate study of the future of Digital Humanities in dialogue with both researchers and professionals. This study resulted in D3.3, which gives an in-depth overview of the outcome of the task. We hope that the executive summary could facilitate a more successful communication of our observations to policy makers.⁸

⁸ See Mark Hedges and David Stuart, “PARTHENOS Foresight - Executive Summary”, 25 September 2019, DOI: 10.5281/zenodo.3460653



3 Report on activities during fourth year

This section provides short narrative reports on the major activities undertaken in WP8 for the period May 2018 to April 2019. Where the data are quantitative, we decided to separate them from the extension period. This helps to keep the evaluation of our KPI's more comparable to other reporting periods, i.e. on a yearly basis. However, when events do not conflict with the reporting period we agreed upon in the DoW, activities that took place during the extension are included. Given the fact that this report forms the final wrap-up of WP8 activities, sometimes we also reflect on what has been done earlier in the project. This helps to draw lessons from the past while bringing the project to a close.

3.1 Website and redesign

The PARTHENOS website (<http://www.parthenos-project.eu/>) was launched in 2015. The aim behind the site was both to communicate information about the project to stakeholders and to related partners, and to provide a single point of access to the tools PARTHENOS has developed over the years. The PARTHENOS website is built on a modern Content Management System (CMS) platform that provides administrators with the flexibility to edit and modify content with relative ease. The website supports five different user roles, that define what actions each user is allowed to perform.

The website's front-end is designed to be responsive to the user's behaviour and technical set-up. This means that it easily adjusts to the screen size, browser and orientation the visitor of the website uses, allowing for platform and device independency.

During the third year, the strategy around the design and maintenance of the website already shifted towards the aim of sustainability. Because of this, projects and services were already featured on the homepage more prominently. The fourth year and the extension provided us with the opportunity to reconsider the final design of the website. Based on feedback received earlier in the project, we decided to bring the products even further to the forefront while removing the news sections from the home page entirely (while it will of course remain



available under “news” for future reference). In exchange, a newly created video describing the PARTHENOS project’s vision will be added. Consequently, a vivid testimony of what the project entailed will remain available at a central place on our website, keeping the spirit of the project alive after its formal ending.

3.1.2 Analytics Year Four

The analysis below covers May 2018 – April 2019, with the same custom filter applied during the previous reporting period.

Overall, the PARTHENOS website attracted 5,964 users during year 4, for a total of 20,045 page views.

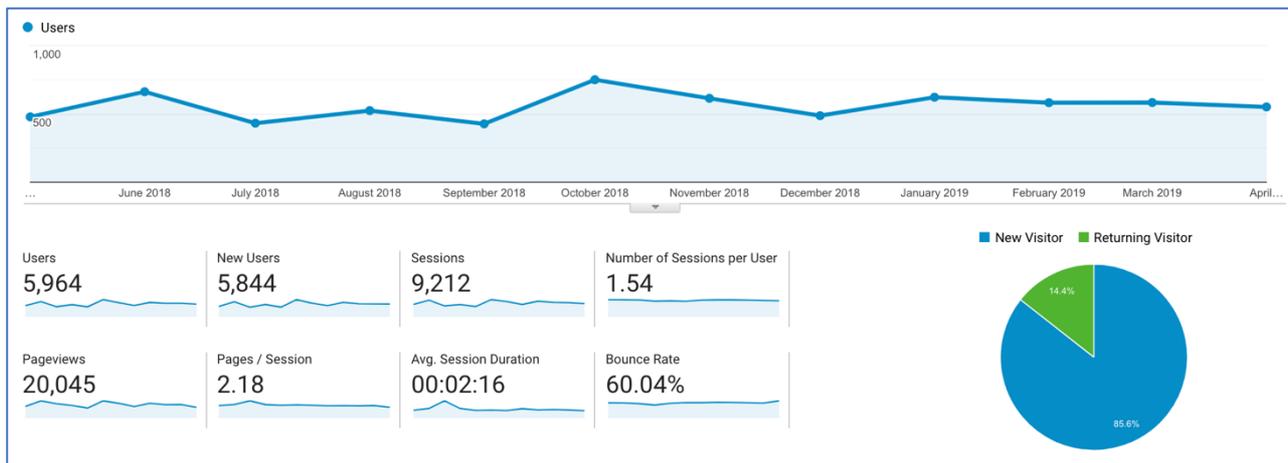


Figure 9: General overview of the use of our website

The overall performance analysis has remained positive, as the metrics show a slight improvement in usage compared to the same period in the third year. This illustrates that – with the continual release of new products and services and/or updates to existing ones – the project website has only increased in relevance. The Page/Session ratio (Figure 10) shows 2.18 pages per visit and the average session duration is 2m16s (Figure 11), which is similar to what was reported in the previous period. The Bounce Rate (Figure 12) stands at around 60%.

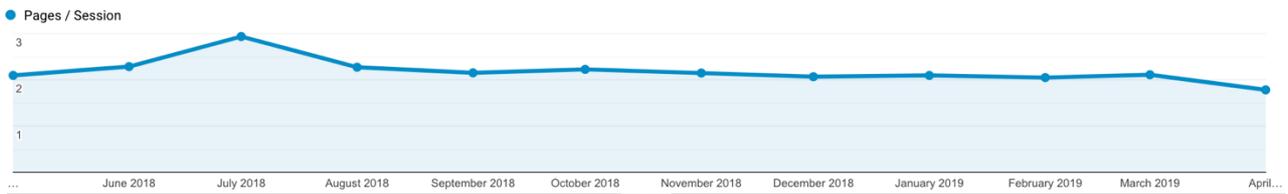


Figure 10: Pages / Session

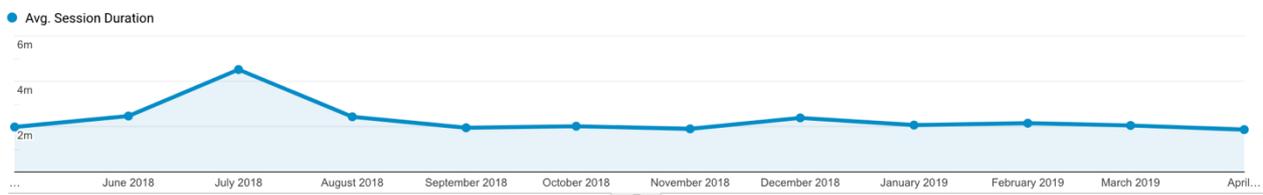


Figure 11: Average session duration



Figure 12: Bounce rate

In terms of page views, the website’s home page stays firmly at the first place, which emphasises the importance of its clarity. When looking at the popularity of specific content, the most visited pages (portal, deliverables, about, training suite, VRE etc.) showed the results of the previous homepage restyling. The attention of the visitor is drawn to the services and products offered, which forms an additional encouragement for our final strategy to focus our home page even more around the PARTHENOS outputs.

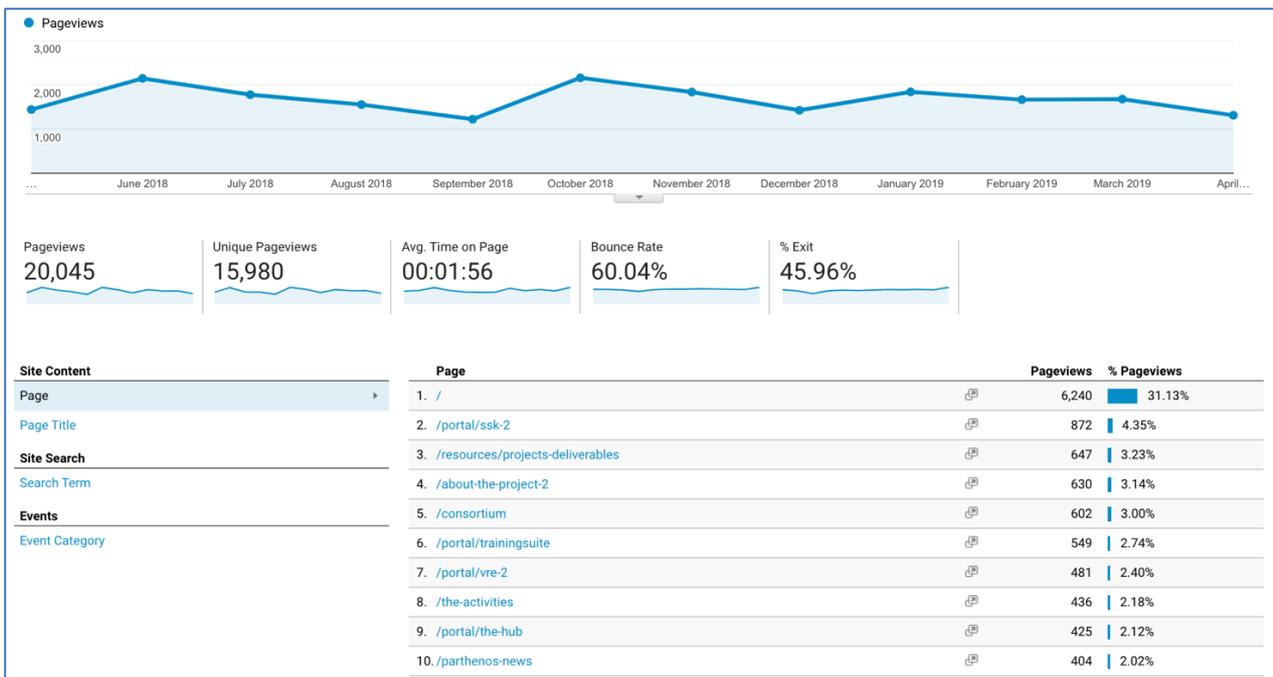


Figure 13: Page views

From the engagement funnel it can be deduced that the number of visitors that browse within the site after having interacted with the home page is around one third of the total, which is similar to the situation in our third year reporting period. Among the pages viewed following the homepage visit – apart from pages on the project (consortium, about) – are the activities and services that are made available by the project (activities and training suite). This further illustrates the positive effect of the graphic restyling around the ‘PARTHENOS portal’ (our collection of products and services).

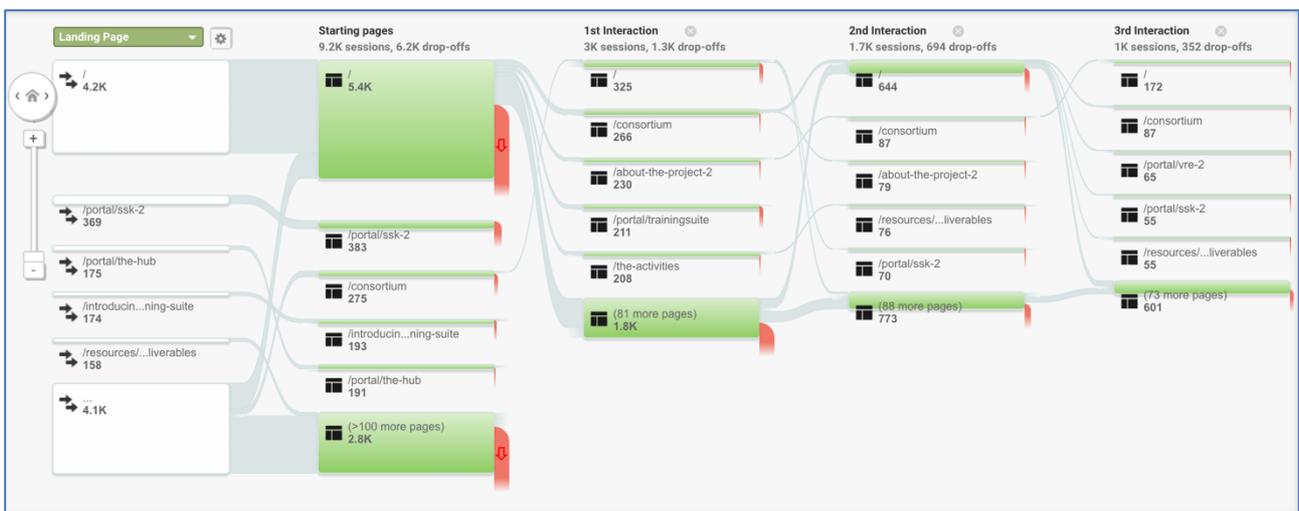


Figure 14: User funnel



Analysing the overview of the acquisition channels leading users to the PARTHENOS website, we found that direct and organic traffic stabilised at a similar percentage, around 40%, while referral and social traffic have increased. The growth over the last year of users entering the PARTHENOS website through referral and social channels can primarily be contributed to a wider dissemination of content through our partner network and to a more effective use (quantitatively and qualitatively) of our social media channels.

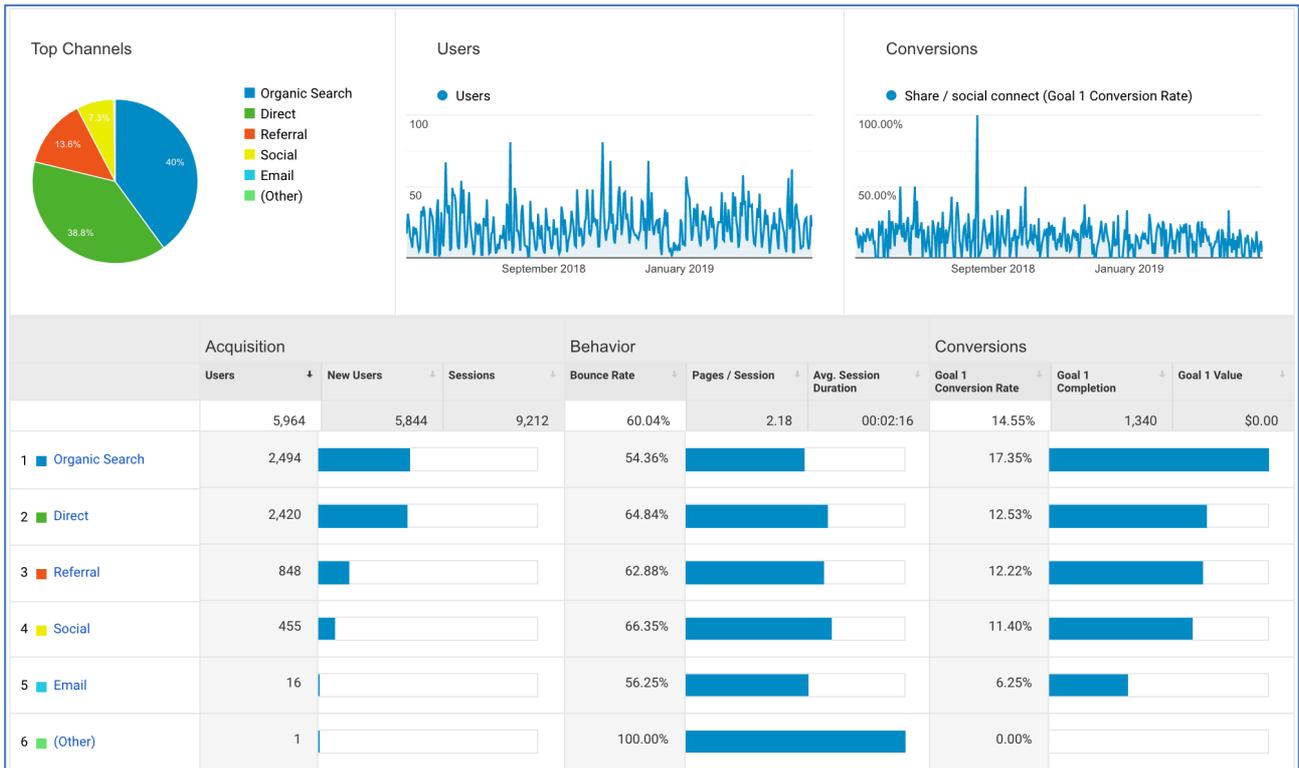


Figure 15: Acquisition channels



	1,294 % of Total: 21.70% (5,964)
1. t.co	308 (40.37%)
2. facebook.com	62 (8.13%)
3. m.facebook.com	53 (6.95%)
4. academyofathens.gr	35 (4.59%)
5. dyas-net.gr	31 (4.06%)
6. ssk.huma-num.fr	28 (3.67%)
7. vcg.isti.cnr.it	24 (3.15%)
8. culingtec.uni-leipzig.de	20 (2.62%)
9. duckduckgo.com	20 (2.62%)
10. cenim.csic.es	19 (2.49%)

Figure 16: Referral sources

3.2 Social media

By the end of April 2019, @PARTHENOS_EU was followed by 1,044 twitter users (Figure 17). This presented a rise in followers of 48%, compared to the 704 followers we had by the end of April 2018. Over the period May 2018 to April 2019, our tweets have achieved an average monthly number of tweet impressions of 12,473, which means we remained stable compared to the 12,416 of the previous year (Figure 18). Overall Twitter has been a successful medium for us. We have reached a (still) growing number of people and managed to attract a relevant audience of professionals, digital humanists, academics and other interested parties such as citizen scientists. We have also benefitted from the presence of other research infrastructures and projects on Twitter where we often tweet and retweet each other's news and activities. You could say that Twitter allows us to become part of a network that makes optimal use of synergies between partners and projects.

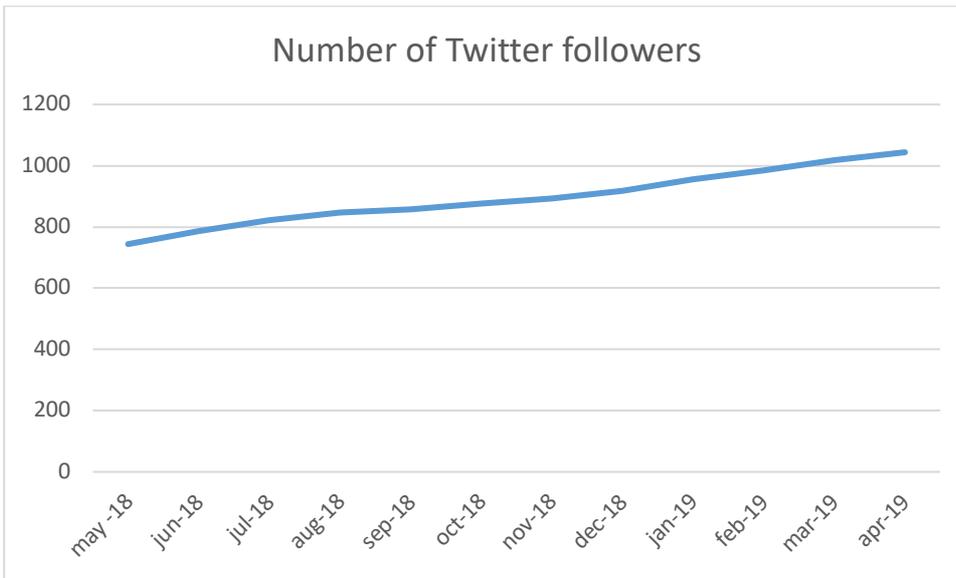


Figure 17: Number of followers of the PARTHENOS Twitter account

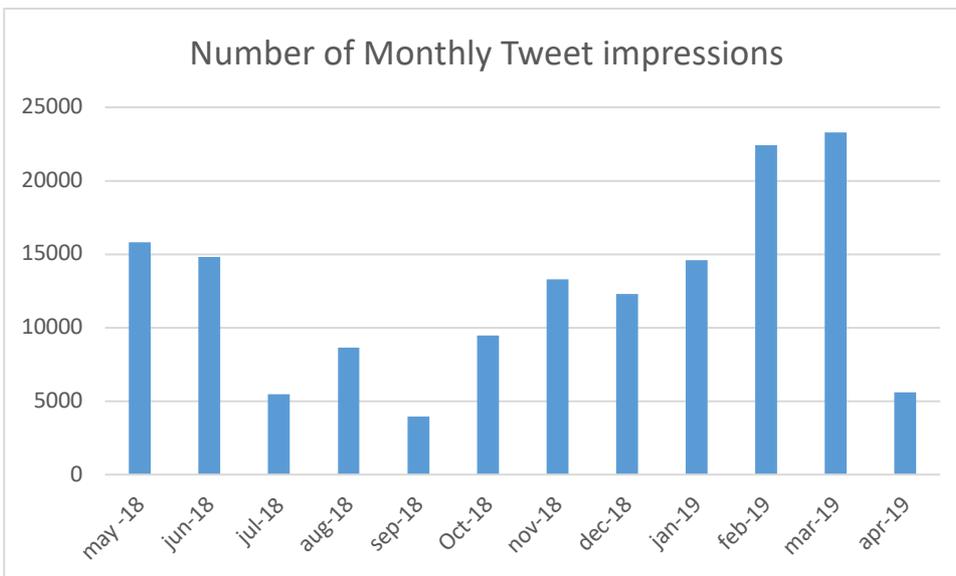


Figure 18: Number of Tweet impressions per month

In December 2017, we decided to expand our social media use by opening a Facebook account (@PARTHENOS_EU). The PARTHENOS website received a significant number of referrals from Facebook and it is considered a good channel for reaching a more general, and less academic audience. It was not surprising that it did turn out to be much harder to reach an audience on Facebook than on Twitter. Facebook needs a much bigger investment (well targeted and continuous posting; specific use of for example DH groups) and even then our account grew only slowly. Facebook also has the disadvantage of a bigger entanglement of personal and professional users. Nevertheless, by the end of April 2019



our page had accumulated 104 followers and 96 likes, which still means a considerable increase compared to the 43 followers and likes we had in April 2018.

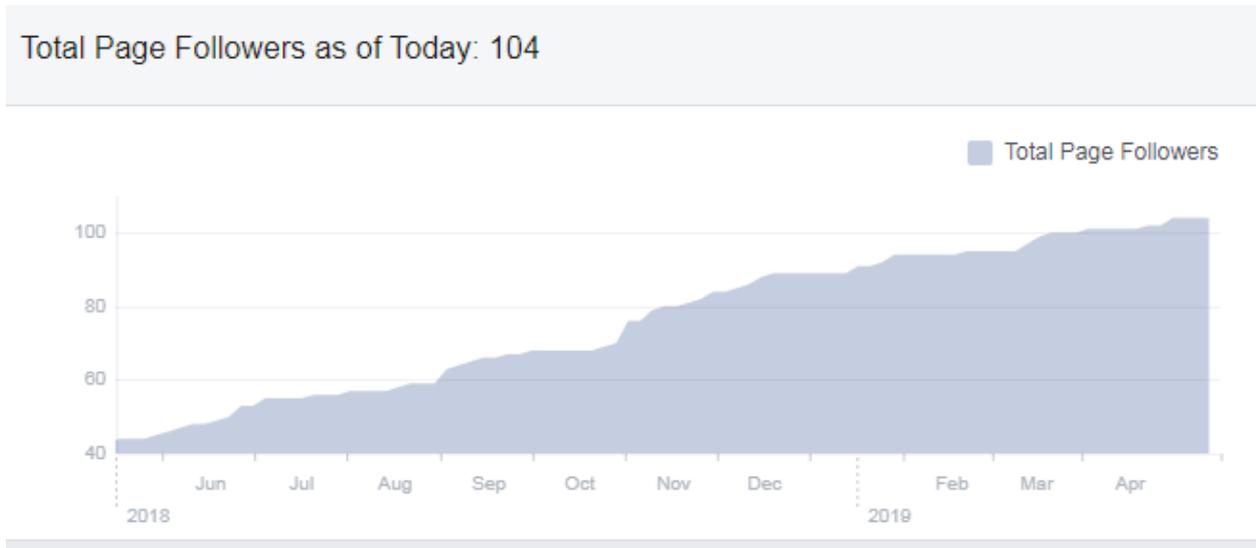


Figure 19: Number of Facebook followers



Figure 20: Number of likes of our Facebook page

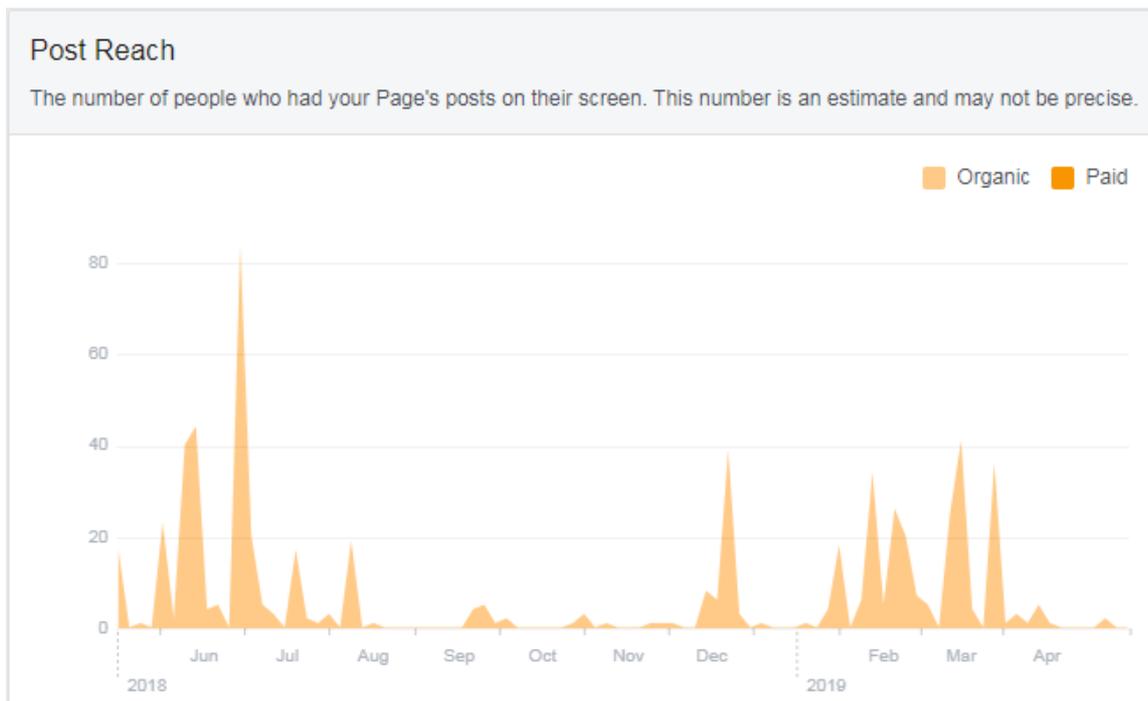


Figure 21: Post reach for the PARTHENOS Facebook page

One of our top Facebook posts (see figure 22), for example, reached 125 people, and got 16 engagements (people who click on the provided link or give a reaction). For a project with such a specific topic, engaging 16 people is not something beneath our standards. Therefore, we have continued to build a profile on Facebook. However, in the fictitious circumstance that we would like to continue our growth on Facebook, this would need a large effort, with uncertain results.



Parthenos
February 7 · 🌐

Today we launched the Guidelines to FAIRify your research data at the NWO (Nederlandse Organisatie voor Wetenschappelijk Onderzoek) #Synergy2019 Conference!
You can download the Guidelines here: http://www.parthenos-project.eu/portal/policies_guidelines

Parthenos
Science, Technology & Engineering

Send Message

✔ **Get More Likes, Comments and Shares**
Boost this post for €18 to reach up to 11,000 people.

125 People Reached 16 Engagements **Boost Post**

Ulrike Wuttke and Esther Ladiges 2 Comments 2 Shares

Figure 22: Example of Facebook post 7 February 2019



3.3 Mailing list and newsletter

Between May 2018 and April 2019, four PARTHENOS Newsletters were sent, with two additional ones following during the six-month extension. This is approximately double the amount compared to the previous period. This is not surprising as in the final year, many of PARTHENOS ‘products’ and services were delivered. PARTHENOS was also very present at many events. All this led to there being more news items for publication.

By the end of April 2019, our mailing list counted 283 subscribers, by the end of September 2019 272. This is a slight decrease, which may have something to do with the fact that the project is nearing its end and that some people involved have already gone on to do other things. It also seems like we have experienced a decrease in subscribers over the past year altogether, as we counted 295 subscribers on 30 April 2018. However, in this period, our mailing list host, the company Mailchimp, made a change in its policies and ‘cleaned’ subscribers. This means it removed subscribers that were actually spam or never responded. The PARTHENOS mailing list had 62 of such non-responsive subscribers. After removing them, we ended up with a clear list of the 272 subscribers in September 2019. This may seem a decrease with the 295 of April 2018, but that list hadn’t been cleaned yet and in all likelihood also contained the approximately 62 false accounts. Therefore, it seems reasonable to conclude that we did still achieve a growth of around 17% in the last year. Our average opening rate has remained stable with 33.4% which is also still higher than the general average in our sector (around 20%, see figure 25).



Figure 23: Average opening and click rate PARTHENOS Newsletter



Engagement

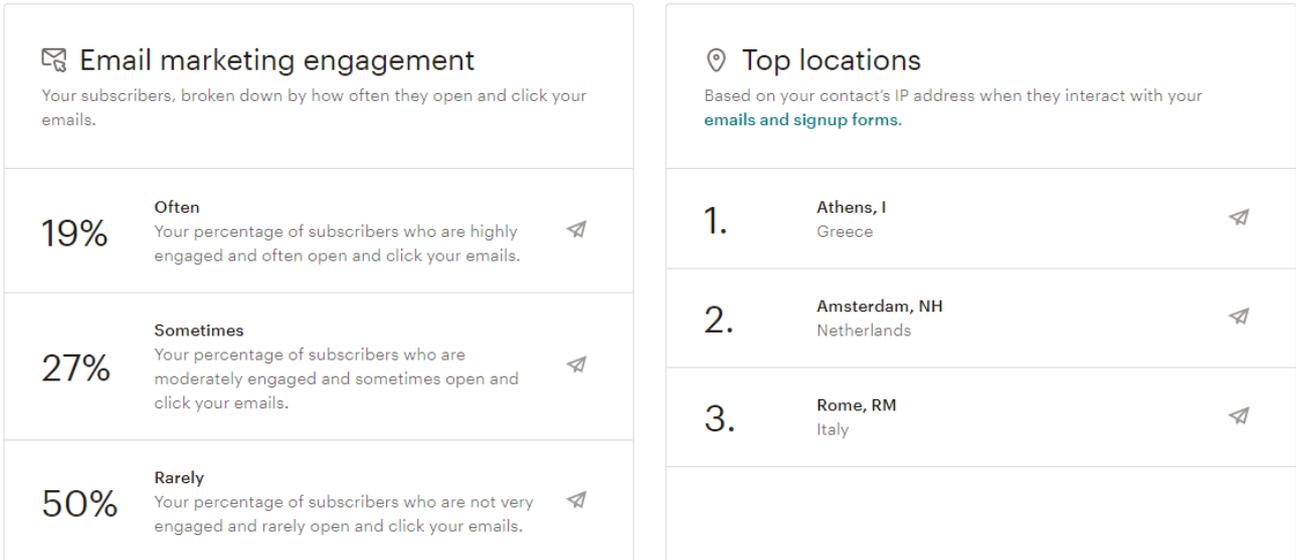


Figure 24: Mailing list audience engagement

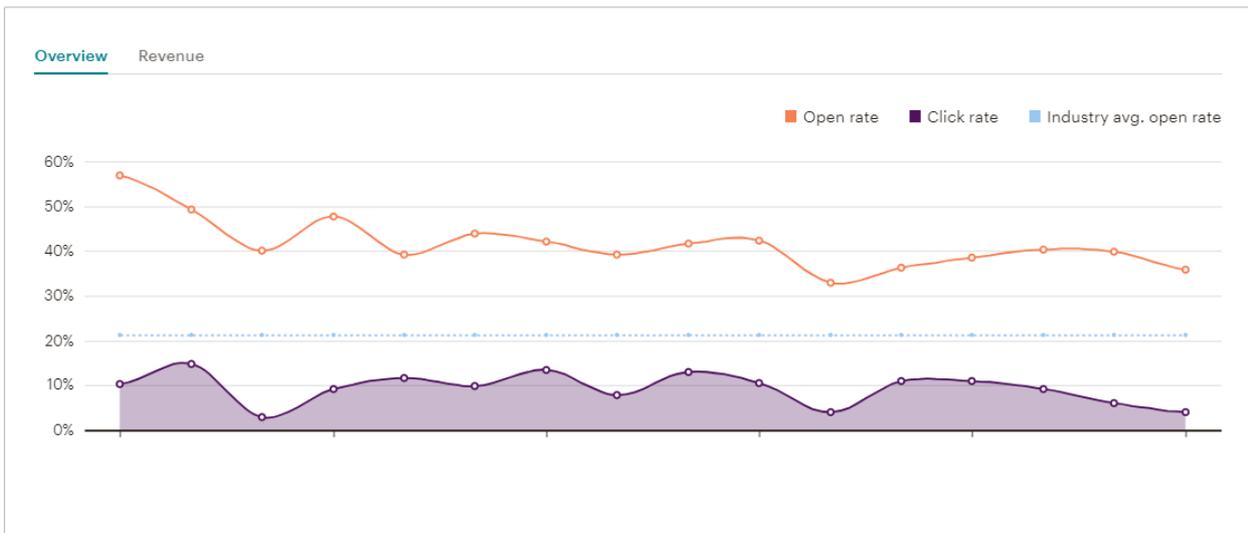


Figure 25: Opening rates compared to industrial average



3.4 Events

WP8 is responsible for coordinating an appropriate PARTHENOS presence at relevant external events, as well as for organising a series of joint events over the course of the project. As the data around events is not quantitative (and, as such, does not need to be quantitatively comparable to previous years), we also included extension activities in this section.

3.4.1 External events

Presentations at and participation in relevant events such as conferences and workshops are an important way to disseminate our information and to get in contact with our target audiences. In order to keep track of events that we intend to target or had presence, we maintained two Basecamp calendars and populated these with details of such events.

These calendars are:

- External events to target

(https://basecamp.com/2932505/calendars/1476303/calendar_events): identified relevant events with no confirmed PARTHENOS presence .

- External events with PARTHENOS presence

(https://basecamp.com/2932505/calendars/1476304/calendar_events): identified relevant events where PARTHENOS has a confirmed presence.

In addition, a Google spreadsheet is used to register PARTHENOS' presence at past events (see <http://tinyurl.com/juoau93>) .

In the final 18 months, PARTHENOS partners participated at the following events to disseminate information about the project:



Date	Event	Action and URL	Audience
02/05/2018	Netzwerk Forschungsdaten Berlin-Brandenburg (Network Research Data Berlin-Brandenburg)	Presentation: Forschungsdatenmanagement im Rahmen der PARTHENOS Training Suite (RDM in the Parthenos Training Suite). http://www.forschungsdaten.org/index.php/Netzwerk_Forschungsdaten_Berlin-Brandenburg#N.C3.A4chstes_Treffen	c. 30
11/05/2018	Meeting with ENEA	Presentation of the project and discussion of the possibility to disseminate PARTHENOS results through DiCultHer network	ca 20
29/05/2018	e infrastrutture della conoscenza nel mondo digitale	Presentation of the project and its outcomes	
08/06/2018	DH Benelux 2018	Presentation: Addressing challenges in scientific communication: The PARTHENOS Hub as a DH publication and interaction platform. http://2018.dhbenelux.org	ca. 70
08/06/2019	DH Benelux 2018	Participation as expert in Round Table about DH, libraries and Open Science, promotion of PARTHENOS Training. http://2018.dhbenelux.org	ca. 65
08/06/2020	DH Benelux 2018	Presentation: Developing the PARTHENOS eHumanities and eHeritage Series: From Webinars to online teaching resources. http://2018.dhbenelux.org	ca. 70
08/06/2021	DH Benelux 2018	Poster presentation: Parthenos Policy Wizard. http://2018.dhbenelux.org	
07/06/2018	DH Benelux 2018	Presentation: The Standardization Survival Kit: bringing best practices to research communities in the Humanities. http://2018.dhbenelux.org	
07/06/2018	DH Benelux 2018	Session chair: Continual Professional Development in DH through Higher Education and RIs TNA programmes. http://2018.dhbenelux.org	
06-08/06/2018	DH Benelux 2018	Booth offering promo material. http://2018.dhbenelux.org	
13/06/2018	Les Rencontres de la TGIR Huma-Num	Presentation: Le Standardization Survival Kit de Parthenos : faciliter l'usage des standards dans les Humanités. https://rhn2018.sciencesconf.org/	
13/06/2018	107. Deutscher Bibliothekartag (German Librarians' Day 12-15.06.18)	Presentation: Neue Wege wissenschaftlicher Kommunikation – der PARTHENOS Hub (Publikations- und Interaktionsplattform). https://bibliothekartag2018.de	ca. 150



Date	Event	Action and URL	Audience
21-22/06/2018	DARIAH Workshop on Impact – “Measuring Change in Digital Humanities”	Dissemination about Training, distribution of flyers. https://www.ibi.hu-berlin.de/de/forschung/information_retrieval/projekte-aktivitaeten/workshop-dariah-eu	ca. 50
21/06/2018	DARIAH Workshop on Impact – “Measuring Change in Digital Humanities”	Presentation on PARTHENOS and (measuring) impact. https://www.ibi.hu-berlin.de/de/forschung/information_retrieval/projekte-aktivitaeten/workshop-dariah-eu	n.a.
21/06/2018	Open Science and the Humanities Conference, Barcelona	General presentation about open Science and DARIAH, the Parthenos SSK and the Training Suite. http://www.ub.edu/openscienceandthehumanities/	n.a.
25/06/2018	DH 2018 Mexico	Presentation & panel: Building Bridges With Interactive Visual Technologies. https://dh2018.adho.org	n.a.
25/06/2018	DH 2018 Mexico	Poster presentation: SSK by example. Make your research go standard. https://dh2018.adho.org	n.a.
25-29/06/2018	DH 2018 Mexico	Dissemination of the “Why standards?” leaflet. https://dh2018.adho.org	n.a.
09/07/2018	Fisica&Arte	Presentation of the project results: Accesso e riuso dei dati digitali del patrimonio culturale. http://chnet.infn.it https://www.iftr.org/media/2534/programa_digital.pdf	ca 60
10/07/2018	International Federation of Theatre Research (IFTR) Conference 2018	Presentation “Digital Humanities in Theatre Research” taking PARTHENOS model as an example for further development. https://www.iftr.org/media/2534/programa_digital.pdf	ca. 10
19/07/2018	Career Talks Potsdam University Graduate School	Presentation: Open Science - Open Scholarship: Was bedeutet offene Wissenschaft für Sie? https://www.uni-potsdam.de/pogs/network-of-talents/career-talks.html	ca. 30
19/07/2018	European University in Digital Humanities (ESU) Summer in Digital Humanities 2018	Presentation: Introducing the PARTHENOS eHumanities and eHeritage Training Suite and Webinar Series: Research Data Special (PARTHENOS Teaser Session at ESU 2018)	7
05/10/2018	Conferenza 2018	GARR Presentation: Infrastrutture, terminologie e policy per la ricerca umanistica: note per un confronto interdisciplinare. https://www.eventi.garr.it/it/conf18	ca. 200
08/10/2018	Seminario interdisciplinare CRS4	Presentation: Dati, standard e policy tra scienze umane e scienze applicate	n.a.
27/10/2018	Digital Heritage, San Francisco	Panel: Which future for Digital Heritage? https://digitalheritage2018	ca. 100
13/11/2018	PARTHENOS Returns to Athens	Keynote speech “ The PARTHENOS project, solutions to digital humanities research needs”. http://www.academyofathens.gr/el/announcements/events/parthenos-returns-2018	ca. 50



Date	Event	Action and URL	Audience
13/11/2018	PARTHENOS returns to Athens	Presentation: "PARTHENOS returns to Athens. Introducing the European Digital Research Infrastructure PARTHENOS to the Greek humanities community". http://www.academyofathens.gr/el/announcements/events/parthenos-returns-2018	ca. 50
05/03/2019	Open Education Week: 24-Hour Global CC Network Web-a-thon	Presentation: Open Educational Resources for Digital Humanities, introducing the Training Suite. https://figshare.com/articles/OER_webinar_DARIAH_pdf/7804577 https://figshare.com/articles/OER_webinar_DARIAH_pdf/7804577	n.a.
07/03/2019	DH Nordic 2019	Presentation: Connecting the Humanities through Ris. https://cst.dk/DHN2019/DHN2019_files/programme_v3.pdf	ca. 35
07/03/2019	DH Nordic 2019	Shared PARTHENOS - CLARIN booth	ca. 100
20-21/03/2019	CH Symposium and Policy debate	Presentation of the project. https://www.reach-culture.eu/events/ch-cluster-symposium	ca 40
02/04/2019	Korea-Italy Symposium on Disaster prevention for CH preservation using advanced ICT technology	Presentation: Data challenges in heritage science	ca. 50
05/04/2019	Ciencia a la Carta divulgation program	Distribution of GUIDELINES to FAIRify data management and make data reusable. https://ciencialacarta.com/	n.a.
17/04/2019	Lecture at Huizinga Institute (PhD students)	Presentation: Research Data Management - Importance, Good Practices, Guidance (featuring Training Suite and PARTHENOS Guidelines)	ca. 20
10/05/2019	SSK: Research practices in a digital environment	"SSK/>Research practices in a digital environment" workshop. http://www.dyas-net.gr/?p=3024	n.a.
23/05/2019	Workshop sugli aspetti legali dei dati e Data Management Plan	Presentation of PARTHENOS Guidelines on FAIR data and the DMP	ca.20

Table 1: Presence at external events



3.4.2 Joint events

During the final 18 months (1st May 2018 – 31st October 2019), PARTHENOS organised several joint events, with four of these being part of the Foresight Study, as follows:

Date	Event	Action	Link	Audience
24/05/2018	DARIAH Annual Event, Bois de Vincennes, France	Foresight Workshop	https://dariah2018.scienceconf.org/resource/page/id/19	30
10/10/2018	CLARIN Annual Conference, Pisa, Italy	Foresight Workshop	http://www.parthenos-project.eu/parthenos-is-present-at-clarin-conference-in-pisa	16
15/10/2018	IPERION-CH Workshop, Florence, Italy	Foresight Workshop		9
14/02/2019	ARIADNEplus Kick-off Meeting, Prato, Italy	Foresight Workshop	https://ariadne-infrastructure.eu/ariadneplus-kick-off-meeting-report/	25
05/03/2019	Twin Talks 1 - Why Humanities research questions should come first?	Joint RI Workshop (at DHN)	https://www.clarin.eu/event/2019/twintalksdhn2019 , http://www.parthenos-project.eu/clarin-and-parthenos-twintalks	20
07/03/2019	Connecting the Humanities through Research Infrastructures	Paper	https://cst.dk/DHN2019/DHN2019_files/programme_v3.pdf	27
12/09/2019	Twin Talks 2 - Understanding Collaboration in DH*	Joint RI Workshop (at DH Benelux)	http://www.parthenos-project.eu/parthenos-at-dh-benelux-2019	8

* This event was held during the Extension period but was also a joint event.

Table 2: Events organised in conjunction with other RIs

3.4.2.1 Foresight Workshop at DARIAH Annual Event, Paris 24th May 2018



The Economic, Environmental and Social Break-out group from the DARIAH Workshop

The first joint workshop for the Foresight Study was organised with the assistance of DARIAH and attended by over 30 participants. This was the first Foresight event and followed a format of four short presentations to stimulate the discussion:

- Jennifer Edmond, TCD, who talked about definition of data and thinking beyond EOSC;
- James Smith covered the subscriptions crisis, APC inflation, aiming for Gold OA models, CC-BY licences, avoiding hybrid models and new deals for the future;
- Marie Puren, INRIA, addressed OA for data (Berlin Declaration). Her talk highlighted the benefits and sought to allay researchers fears;
- Carsten Thiel talked about RI as connectors and the need to recognise that software is a research output.



This was followed by the participants dividing into three groups based upon the main themes:

- Technical – leader Klaus Illmayer;
- Economic, Environmental and Social – leader Sheena Bassett;
- Scholarship – leader Vicky Garnett.

Notes were taken by each leader for later analysis. Overall, the DARIAH Workshop was quite a lively event with people with a wide range of roles and from different disciplines contributing.

3.4.2.2 CLARIN Foresight Workshop, Pisa, Italy 10th October 2018

CLARIN assisted with the organisation of a Workshop aimed at Linguistic studies researchers at their annual Conference which held in Pisa. There were 16 attendees and three presentations were made as followed:

- Steven Krauwer, CLARIN, covered the topics of different data types, the need for training and also lab facilities, issues relating to RIs and GDPR, IPR, the FAIR data principles and EOSC;
- Arjan van Hessen, CLARIN, focused on CLARIAH and cross-discipline collaboration;
- Alba Irollo, Europeana Foundation, talked about the growing interest in Digital Heritage, the role of Europeana, EOSC and the need for more digital platforms and repositories and to increase digital literacy;
- Chris Cieri presented NIEUW X-sourcing in Language related scholarship.

The attendees then divided into two groups who proceeded to discuss a wide range of issues which included business models, funding, the preservation of data, the take-up of RIs, tools and data and how to measure this, technical developments, education, sustainability and the need for wider communication and dissemination.

3.4.2.3 IPERION-CH Foresight Workshop, Florence 15th October 2018

This workshop was organised with the support of IPERION-CH who were holding a meeting in Florence as it was a good opportunity to gather input from the CH scientific analysis community. The Workshop had nine participants and for this reason, the introduction was



made by Luca Pezzati (Director of IPERION-CH) after Sheena Bassett explained the structure and purpose. The discussion that followed was quite intense and wide-ranging and covered all the main themes.

3.4.2.4 ARIADNEplus Foresight Workshop, Prato 14th February 2019

The final joint Foresight Workshop was held at the ARIADNEplus project kick-off meeting on the 14th February. An introductory presentation was given by David Stuart who had been brought in to assist with the study analysis by KCL to around 25 attendees. The participants then split into three breakout groups (managed by Sheena Bassett, PIN; David Stuart, KCL; and Ulf Jacobssen, SNS) who contributed a wide-ranging set of ideas and viewpoints – archaeologists deal with several different scientific disciplines such as DNA, carbon dating, soil analysis, chromatography, 3D modelling etc. in the course of their work as well as more traditional aspects of research. Overall, archaeology is one of the most scientifically advanced and diverse humanities disciplines and the ARIADNEplus members were able to make a significant contribution to the study.

The following papers and panels were jointly organized by PARTHENOS, DARIAH and CLARIN to promote Research Infrastructures and explore the issues that need to be addressed within the Humanities.

3.4.2.5 DH Nordic, 6th March 2019, Copenhagen, *Twin Talks 1 - Why Humanities research questions should come first?*

The first “Twin Talks” workshop was jointly organised by CLARIN and PARTHENOS and consisted of a number of guest speakers who covered a range of topics which included computer vision techniques on newspaper images, video games culture research, Romanian translations to Latin and German, a study on a text by Peter Handke on the Slovenian uprising during WW2 and various other topics. These were followed by an in-depth discussion and a list of over twenty action points being developed by the participants.



3.4.2.6 DH Nordic, 7th March 2019, Copenhagen, *Connecting the Humanities through Research Infrastructures*

A joint presentation was made by Frank Uiterwaal (PARTHENOS) and Leon Wessels (CLARIN) of a joint paper entitled *Connecting the Humanities through Research Infrastructures* (authors: Sheena Dawn Bassett, Leon Wessels, Steven Krauwer, Bente Maegaard, Hella Hollander, Femmy Admiraal, Laurent Romary, Frank Uiterwaal). This described the cross-discipline applications and approaches developed collaboratively by PARTHENOS, CLARIN and DARIAH.

3.4.2.7 DH Benelux, 12th September 2019, Liege, Belgium, *Twin Talks 2 - Understanding Collaboration in DH*

After the success of the first Twin Talks workshop, a second workshop was organised for DH Benelux. This was a smaller event and featured contributions from Dr. Emma Clarke (ADAPT RC, Dublin), Merisa Martinez (DH Commons at University Library, Leuven), Klaus Illmayer (Austrian Academy, Vienna) and Steven Claeysens (Royal Library, Den Haag). The discussion focused on the role of librarians and proposed solutions for improving collaboration between the different roles many of which that Research Infrastructures can help promote and implement.

3.4.3 The PARTHENOS Impact Event

An important milestone in the last year of the project, was the organisation of a final event. As we didn't want to highlight the fact that the project is over, but instead wanted to demonstrate the difference we have made, we decided to entitle this the PARTHENOS Impact Event. On our website, we published the following day report:

The PARTHENOS Impact Event

The final event to publicise and disseminate the achievements of the PARTHENOS project was held in the beautiful National Museum of Rome on Friday 4th October. The programme had been designed to highlight the impact PARTHENOS has made on the Humanities Community and there were plenty of testaments to illustrate this.



Figure 26 - Prof. Franco Niccolucci of PIN and Simonetta Buttò, the Director of the Ministero dei Beni e Delle Attivita' Culturali e del Turismo open the Impact Event

After a welcome by Prof. Franco Niccolucci of PIN and Simonetta Buttò,

the Director of the Ministero dei Beni e Delle Attivita' Culturali e del Turismo (MiBAC-ICCU), Jennifer Edmond of Trinity College Dublin (TCD) provided an uplifting overview of the Training Suite, quoting some of the very positive comments received by end users. The modules will continue to be available on the Portal and will be maintained by DARIAH after the end of the project.

Francesca Morselli (KNAW-DANS) then talked about the guidelines developed by WP3 for "FAIRifying data" which have proved to be very popular and are now being translated into a number of other key languages such as German, French, Greek and Hungarian. Frank Uiterwaal presented the SSK on behalf of WP4 and also showed the short professionally produced video which had been made to promote it. As DARIAH originally identified the need for support with the use of standards in the Humanities, the organisation will adopt the SSK, guaranteeing its sustainability. Achille Felicetti of PIN followed with a talk about the PARTHENOS Entity Model, explaining how this had been created to help integrate diverse sets of data and how it is now being taken up by other Research Infrastructures projects such as ARIADNEplus and SSHOC as a working data model.

As there was time before lunch, two external end users had been invited to talk about their experiences of using PARTHENOS outputs. Katerina Zourou of Web2Learn in Greece explained how she had heard about the Training Suite from Ulrike Wuttke (FHP) at the

FOSTER bootcamp in Barcelona and had also met Eleni Gouri from the Academy of Athens at the DARIAH meeting in Paris where she found out about the project. She found the training modules very useful, especially Citizen Science since Web2Learn is involved in several projects, along with some of the other tools such as the Policy Wizard. Nenod Jončić from the University of Primorska Faculty of Humanities / Odzaci Museum described how he had attended the workshop entitled “Share-Publish-Store-Preserve Methodologies, Tools, and Challenges for 3D Use in Social Sciences and Humanities” which was held in Marseille in February 2019. He had applied what he had learnt about 3D models for the preparation of an archaeological exhibition in the Museum unit Odzaci, Serbia and will also be able to apply everything he had learnt to his doctoral thesis. The last item before lunch was a short video prepared by Kristen Schuster of King’s College London (KCL) who described how she and Vicky Garnett (TCD) had developed training materials for the Digital Humanities MA course she teaches at KCL and some of the projects that resulted from this work.

Following lunch, Mark Hedges presented the Foresight Study, briefly explaining the background theory and methodology that PARTHENOS used before proceeding to a summary of the findings and recommendations for future action. He emphasised that Foresight is an on-going activity and that the project hopes that the current work will be taken up and continued as a general Humanities activity. Bente Maegaard, wearing her ESFRI hat

as the current chair of the Strategy Working Group on Social and Cultural Innovation, addressed the subject of international collaboration and its increasing importance for Research Infrastructures and researchers. The building of international networks stretching to countries outside of Europe is not always without its challenges, but it is certainly welcome that the H2020 programme funding has been



Figure 27 : Panel discussion on international collaboration. From left to right: Bente Maegaard (CLARIN), Mark Hedges (KCL) Juan Steyn (SADiLaR), Steven Krauwer (CLARIN), Simon Musgrave (Monash University) and Adeline Joffres (Humanum)

extended to organisations outside the EU. Finally, Bente mentioned some of the past and



current projects coming out of ESFRI and set the scene for the Panel which was hosted by Steven Krauwer of CLARIN. The panellists came from across the world, providing some alternative viewpoints from Australia (Simon Musgrave, Monash University), South Africa (Juan Steyn, SADIaR) as well as France (Adeline Joffres, Huma-Num) and the UK (Mark Hedges, KCL) regarding the role of Research Infrastructures for collaboration and co-operation.

Prof. Franco Niccolucci brought the event to a fitting close with the launch of a short, animated, explanatory video about the mission of PARTHENOS. This video has been especially designed for a wider non-professional audience to make sure that the added value of the project is well-understood beyond the run-time of the project and beyond an academic audience. The video will feature on the PARTHENOS homepage for time to come. Concluding the event, Franco summarised the success of the project and thanked everyone for their contributions and attendance.

3.5 Publicity materials

In its final year, PARTHENOS delivered most of its products and services. Anticipating on this, several new publicity materials were designed and distributed at various events and through partners. The new general PARTHENOS leaflet and poster for conferences were already produced in the previous reporting period.

For every new product or service that was launched, we prepared a campaign, that included a news item on the website, a press release for our partners, social media, and in most cases a leaflet, flyer or brochure on the new resource. In most cases, the team that delivered the new resource, also produced the draft flyer or brochure. In some cases a short video was developed.

To promote the successful Training Suite, a short video and a new flyer were created by Work Package 7. The video is available on our YouTube channel, <https://youtu.be/Xlk1qxqktU>.



Figure 28: Training Suite leaflet 2019 front

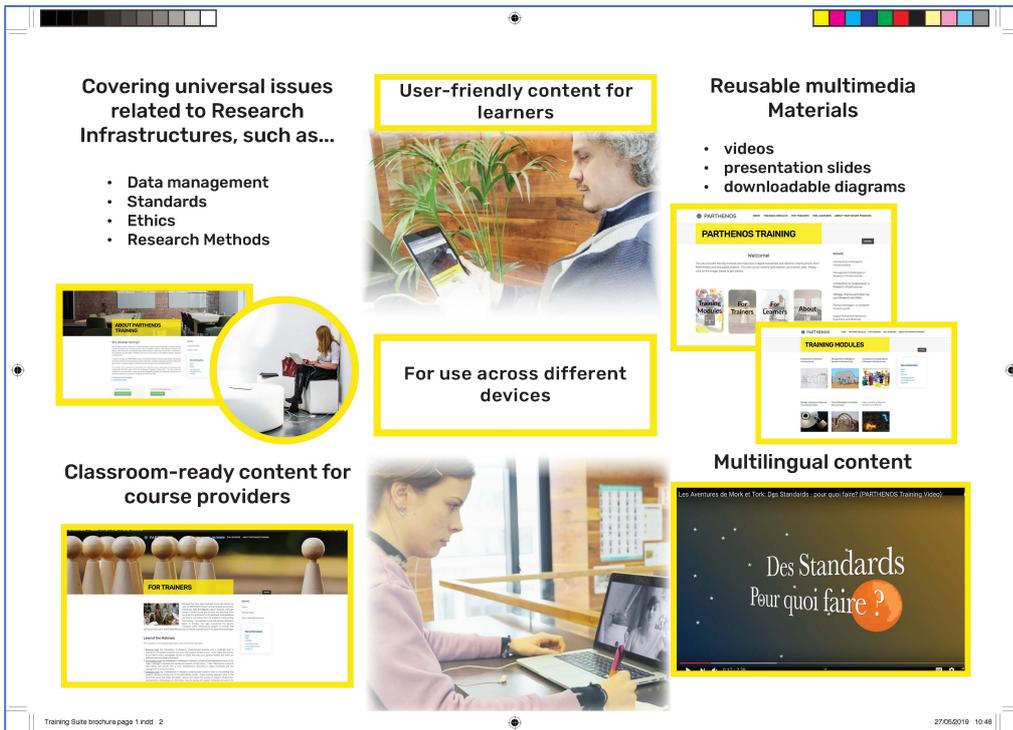


Figure 29: Training Suite leaflet 2019 back

A very popular short video, with over 200 views, was created by the Work Package 4 team on the Standardization Survival Kit, <https://youtu.be/JVJ1dUDpX5I>.

Over the last year, videos were not just offered online. They also played a prominent role in the set-up of our conference booths. Moving promotional material around the Training Suite, the SSK, the Hub and a publication around policy guidelines made for a lively exhibition of our project output.



Figure 30: PARTHENOS stand at CLARIN annual conference, with the Training Suite video playing in the background.

3.6 Publications

Apart from the trusted process of the drafting of deliverables, PARTHENOS has continually looked into opportunities to publish its observations in accessible formats that meet the needs of specific audiences. Under 3.4 Tailored Messages, we already outlined how two long reports (deliverables 3.1 and 3.3) were translated into shorter, public friendly brochures: the “PARTHENOS Guidelines to FAIRify data management and make data reusable” leaflet, and the PARTHENOS Foresight Executive Summary.



Two other important publications of PARTHENOS over the last period are geared more towards an academic audience. The first one is a white paper, in which we gathered contributions from experts of 3D data as well as professionals concerned with the interoperability and sustainability of 3D research data. Through this workshop report, the PARTHENOS project aimed to highlight some of the current issues the contributors face when working with 3D data while also bringing discipline-specific insights under the attention of our stakeholders.⁹ Another paper that deserves a special mention is the authoritative paper of our project entitled ‘From disparate disciplines to unity in diversity - how the PARTHENOS project brings Humanities Research Infrastructures together’, which is currently under peer-review with the International Journal of Humanities and Arts Computing. This write-up is specifically focussed not on the output of the projects in terms of products, but on the vision driving their development.

Below, an overview of publications that came out of the project over the last period:

- Policy leaflet: “PARTHENOS Guidelines to FAIRify data management and make data reusable” (translated in German, Italian, Greek and Hungarian).
<https://doi.org/10.5281/zenodo.3368858>;
- PARTHENOS Foresight Studies Executive Summary
https://zenodo.org/record/3460653#.XaWw339S_RY;
- PARTHENOS White Paper II: Share — Publish — Store — Preserve. Methodologies, Tools and Challenges for 3D Use in Social Sciences and Humanities. This White Paper is the result of the PARTHENOS Workshop held in Marseilles at MAP Lab. (France), February 25th - February 27th, 2019. Doi:
<https://doi.org/10.5281/zenodo.3258316>;
- Frank Uiterwaal et al., ‘From disparate disciplines to unity in diversity. How the PARTHENOS project brings Humanities Research Infrastructures together’, DOI:
<http://doi.org/10.5281/zenodo.3514684>
- Conference paper DH Nordic 2019: “Connecting the Humanities through Research Infrastructures” <https://hal.inria.fr/hal-02047512/document>

⁹ See Alaoui M'Darhri et al., “*PARTHENOS White Paper II: Share — Publish — Store — Preserve. Methodologies, Tools and Challenges for 3D Use in Social Sciences and Humanities*”, 17 June 2019, DOI: 10.5281/zenodo.3258316



- CLARIN and PARTHENOS TWINTALKS: Understanding collaboration in DH <https://www.clarin.eu/blog/clarin-and-parthenos-twintalks-understanding-collaboration-dh>
- “FAIRifying Data Management: An example from the Humanities” in the news section of the website of ICSU World Data System, Trusted Data Services for Global Science <https://www.icsu-wds.org/news/blog/FAIRifying-Data-Management>
- “Introducing the PARTHENOS eHumanities and eHeritage Training Suite and Webinar Series: Research Data Special” on the "Culture & Technology" European Summer University in Digital Humanities - University of Leipzig website <http://esu.culintec.de/?q=node/1061>.

3.7 Scientific communication

WP8 was tasked to analyse, support and improve scientific communication in the PARTHENOS target areas of language studies, digital humanities, digital heritage, archaeology and history. In particular, the WP8 Scientific Communication task focusses on infrastructural aspects of scientific publishing and interaction. After the decision in the second year to explore the chances and challenges of scientific communication through the concept of the PARTHENOS Hub, an experimental publishing and interaction platform, the first basic infrastructure was realised in the third year. During the fourth year and the extension, we focused on establishing a publishing and interaction infrastructure and exploring different aspects by publishing four different issues.

The following sections will describe the different issues, technical aspects including the PARTHENOS repository on Zenodo, outreach activities and a summary of the findings and recommendations.

The first thematic issue (“Defining the Knowledge Graph for the Social Sciences and the Humanities”, see figure 31 below) was published on 30 July 2018 on the PARTHENOS Hub].¹⁰ The editor Gerard Coen is a communication scientist and works in the Policy Development & Communication Department at Data Archiving and Networked Services (DANS) in the Netherlands. Gerard selected open accessible material on that topic wrote

¹⁰ See: Gerard Coen, ‘Defining the Knowledge Graph for the Social Sciences & Humanities’ <http://www.parthenos-project.eu/portal/the-hub/issue-1-kg>.



and introduction and discussed the topic in the issue. The material was stored in the PARTHENOS Hub repository on Zenodo to secure the persistent open availability of the text and link the text in the issue with a DOI.¹¹ One challenge to the creation of an open environment for scholarly debate the author encountered was that some of the most significant publications on the topic weren't available in an open access format. This means that they could not be made immediately accessible, only cited. Another challenge was to find the right "tone" for the issue as an issue is somewhere between a traditional paper article and a more casually written blog item.

¹¹ See: 'PARTHENOS Hub Repository', <https://zenodo.org/communities/parthenos-hub/?page=1&size=20>.



PARTHENOS HOME ABOUT PARTHENOS PORTAL NEWS CONTACT

ISSUE 1

Defining the Knowledge Graph for the Social Sciences & Humanities
by Gerard Coen
30.07.2018

Introduction & Discussion

The knowledge graph (KG) is a term trending among both scholars and practitioners in various scientific disciplines.

The trend mentioned above, is indicated by the rapid growth of peer-reviewed articles on the KG. Over 120 articles were published in 2017 compared with only about 60 articles in 2015 (Web of Science, 2018). The term has also started to appear in large-scale science projects for the Social Sciences & Humanities (SSH) such as the CLARIAH-PLUS ERIC (European Research Infrastructure Consortium) and also the Trans-Atlantic Platform "Digging into Data" Challenge (Hessen, 2018; Digging Into Data, 2018).

[+ Read more](#)

Open Access Resources

- + Knowledge Graphs in the Libraries and Digital Humanities Domain
- + Knowledge Graphs and Network Text Analysis
- + Towards a definition of knowledge graphs
- + Wikipedia: Knowledge Graphs

Cite as:
Gerard Coen, "Defining the Knowledge Graph for the Social Sciences & Humanities" in The PARTHENOS Hub, Issue 1, July 2018, <http://www.parthenos-project.eu/portal/the-hub/issue-1-kg>

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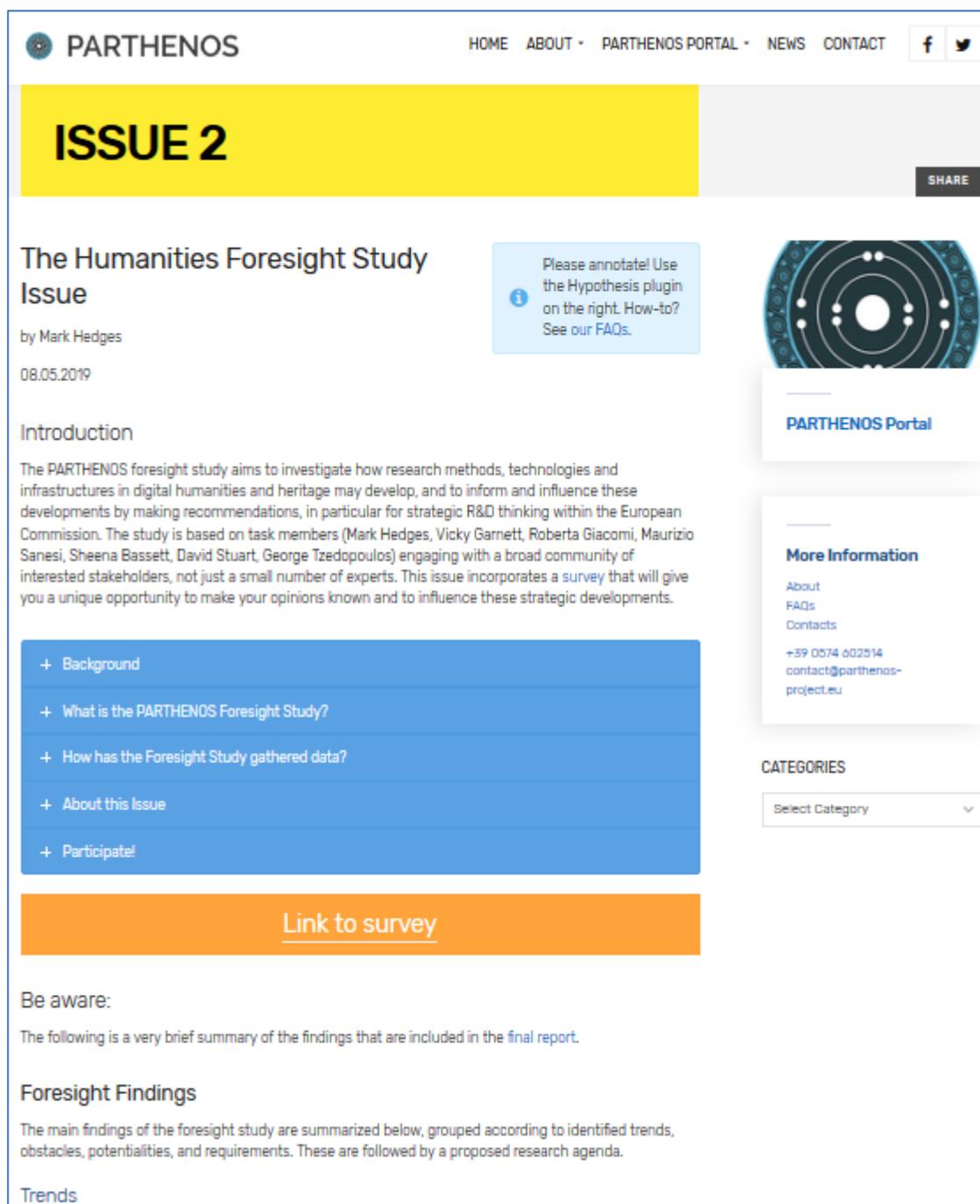
CATEGORIES
Select Category

Figure 31: PARTHENOS Hub Issue 1: Knowledge Graph (Screenshot: <http://www.parthenos-project.eu/portal/the-hub/issue-1-kg>, October 2019)

The second thematic issue (“The Humanities Foresight Study Issue”, see figure 32) was published on 8 May 2019 on the Hub.¹² The editor, Dr Mark Hedges, is senior lecturer at King’s College London and was responsible for the PARTHENOS Foresight study. His research method was an inclusive one – i.e. involved asking researchers and professionals about their observations – which is why his approach was suitable to experiment with the interaction with a community and to explore the aspect of involvement. Mark Hedges and his colleague David Stuart selected the material, wrote the texts, and added a survey in

¹² See: Mark Hedges, ‘The Humanities Foresight Study Issue’, <http://www.parthenos-project.eu/portal/the-hub/issue-2>.

order to get more feedback from the community. Though the Hub and the issue were presented at different workshops, the extent of participation in the survey was not as high as we had hoped. A plausible explanation for this is that the people whom we asked for input felt that their observations were already provided. Our finding: the set-up of this type of issue is useful, easily realised but it is vital to find the right way to address a community at the right time to get the most out of it.



PARTHENOS HOME ABOUT PARTHENOS PORTAL NEWS CONTACT  

ISSUE 2

[SHARE](#)

The Humanities Foresight Study Issue

by Mark Hedges

08.05.2019

Introduction

The PARthenOS foresight study aims to investigate how research methods, technologies and infrastructures in digital humanities and heritage may develop, and to inform and influence these developments by making recommendations, in particular for strategic R&D thinking within the European Commission. The study is based on task members (Mark Hedges, Vicky Garnett, Roberta Giacomi, Maurizio Sanesi, Sheena Bassett, David Stuart, George Tzedopoulos) engaging with a broad community of interested stakeholders, not just a small number of experts. This issue incorporates a survey that will give you a unique opportunity to make your opinions known and to influence these strategic developments.

- + Background
- + What is the PARthenOS Foresight Study?
- + How has the Foresight Study gathered data?
- + About this Issue
- + Participate!

[Link to survey](#)

Be aware:

The following is a very brief summary of the findings that are included in the [final report](#).

Foresight Findings

The main findings of the foresight study are summarized below, grouped according to identified trends, obstacles, potentialities, and requirements. These are followed by a proposed research agenda.

Trends

Please annotate! Use the Hypothesis plugin on the right. How-to? See our FAQs.



[PARthenOS Portal](#)

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[FAQs](#)
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+39 0574 02014
contact@parthenos-project.eu

CATEGORIES

Select Category 

Figure 32: PARthenOS Hub Issue 2: Foresight Study (Screenshot 1 with survey button: <http://www.parthenos-project.eu/portal/the-hub/issue-2>, October 2019)



As in the first issue it was possible to leave comments on the issue directly on the website (see figure 33).

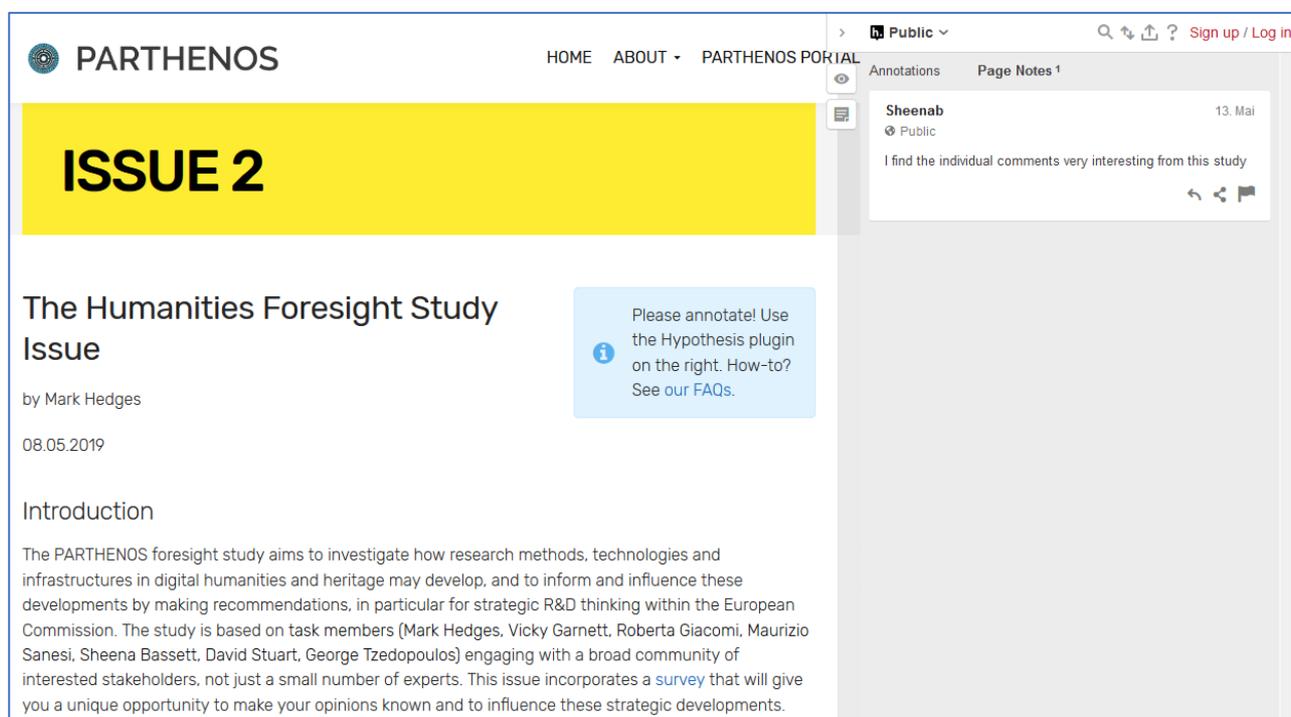


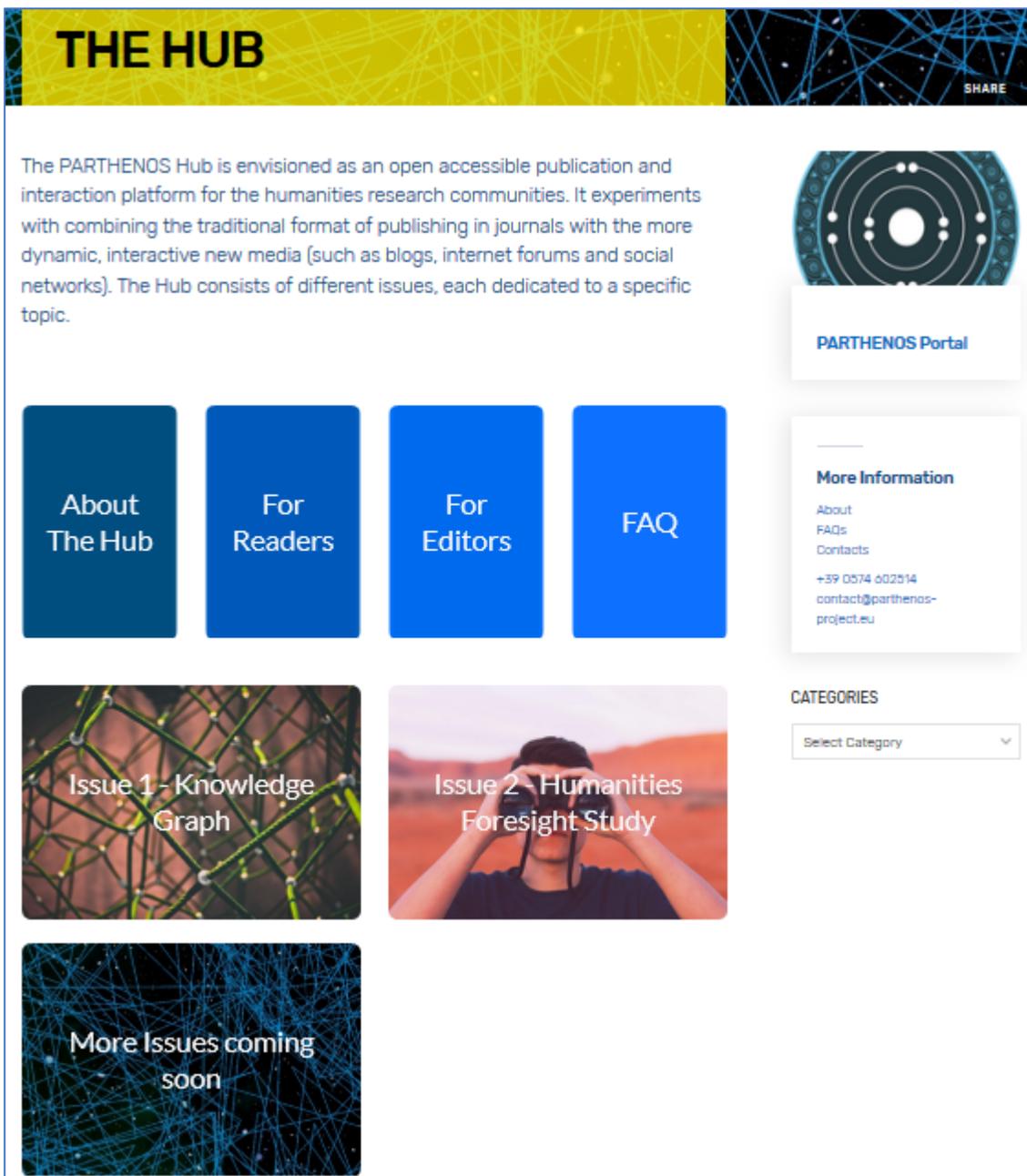
Figure 33: PARTHENOS Hub Issue 2: Foresight Study (Screenshot 2 with annotation: <http://www.parthenos-project.eu/portal/the-hub/issue-2>, October 2019).

At the very end of the project the following issues will be published on the PARTHENOS Hub (see figure 34 below):

- A revised updated version of the Foresight Study issue where the findings since the publication of the first edition will be published with additional links to more material;
- A third issue (“The PARTHENOS papers”) – with Frank Uiterwaal information specialist digital humanities at NIOD, Institute for War, Holocaust and Genocide Studies and PARTHENOS WP8 (communication, dissemination and outreach) leader as editor – will be published as a documentation of the whole project. The issue will include a short description of all important aspects and findings of the PARTHENOS project with links to material stored persistently on the PARTHENOS Hub repository on Zenodo for more details. The described and selected material consists of deliverables, white papers, publications, products and other material persistently documenting the whole project. We believe that this offers the

opportunity to document the legacy of a project in a holistic manner and to make the documents it created persistently available for potential reuse in a well-structured and clearly arranged way.

- A fourth issue (“All about the Hub”) with Claus Spiecker, senior researcher and information specialist at the Fachhochschule Potsdam, as editor will be published at the same time documenting the Hub covering experiences and challenges from the first idea to the realization of the single issues, technical aspects of set up, findings and recommendations.



The screenshot displays the landing page for the PARTHENOS Hub. At the top left, the title "THE HUB" is prominently displayed in a yellow banner. Below this, a descriptive paragraph explains the hub's purpose as an open-accessible platform for humanities research. To the right, there is a "SHARE" button and a circular graphic with a central white dot and concentric blue rings. Below the graphic is a "PARTHENOS Portal" button. A "More Information" section lists links for "About", "FAQs", and "Contacts", along with a phone number (+39 0574 602514) and an email address (contact@parthenos-project.eu). A "CATEGORIES" dropdown menu is also present, currently set to "Select Category". The main content area features four blue buttons: "About The Hub", "For Readers", "For Editors", and "FAQ". Below these are three issue cards: "Issue 1 - Knowledge Graph" (with a molecular structure image), "Issue 2 - Humanities Foresight Study" (with a person using binoculars image), and "More Issues coming soon" (with a network graph image).

Figure 34: PARTHENOS Hub Landing page (Screenshot: <http://www.parthenos-project.eu/portal/the-hub>, October 2019)



The Hub infrastructure was technically realised using WordPress for publishing with hypothes.is as a plug-in for commenting and Zenodo as a repository space for persistent storage. Functionally, launching an issue involves publishing it on a WordPress website. Such an issue generally consists of an introduction, a discussion section (describing the research question) and the material section with a short description of each item with a link to the original full-text, which is stored in a repository (in our case most often on Zenodo). The idea to look at other technical solutions such as GitBooks to explore additional features turned out not to be necessary for our purposes, as all our needs for publication and interaction were met by the very basic set-up described above.

Zenodo was chosen as an existing and readily available repository with all necessary features. The PARTHENOS Hub repository set up in August 2018 quickly became the central location to store all kinds of material from the project.¹³ It started with the deliverables to provide them with a DOI and thereby making them persistently available. Quickly, other project material followed suit. An additional advantage of Zenodo is that it registers statistics per document, which can help to assess and demonstrate their impact.

In order to get feedback on the concept of the Hub from outside the project, we submitted abstracts to different conferences. The submission to the DH Benelux 2018 was successful and the presentation was attended by roughly 30 people.¹⁴ The submission to the German Librarian's Day ("Deutscher Bibliothekartag") in 2018 was successful, too, and the presentation on June 13 was attended by roughly 80 people.¹⁵

Submission to other conferences in 2019 as e.g. the DH Benelux 2019 and the German Librarian's Day ("Deutscher Bibliothekartag") when the exploration was more advanced were unfortunately rejected with the hint that there was a different focus at that years' conferences.

In summary, the outcomes of our activities in last period of the project are:

¹³ See: 'PARTHENOS Hub Repository', <https://zenodo.org/communities/parthenos-hub/?page=1&size=20>.

¹⁴ See: Claus Spiecker et al., 'Addressing challenges in scientific communication - The PARTHENOS Hub as a DH publication and interaction platform', DOI: 10.5281/zenodo.2641636.

¹⁵ See: Claus Spiecker, 'New ways in Scientific Communication - the PARTHENOS Hub (Publication and Interaction Platform)', <https://nbn-resolving.org/urn:nbn:de:0290-opus4-37074>.



- The establishing of the PARTHENOS Hub as an infrastructure on the basis of WordPress that allows to publish persistent and citable issues and to interact by commenting directly on the content;
- Four different issues and one revised issue were published on the PARTHENOS exploring the possibilities of the platform;
- All findings and experiences were published and documented for possible reuse in an issue;
- The use of Zenodo for persistent storage of project findings allowed to document the whole project in an innovative new way which could be recommended for other projects.



4 Summary evaluation of activities during fourth year

Table 3 offers a summary evaluation of our activities reported in detail above against the performance targets set in the *Third Year Communication Report*.

Indicator	Cumulative target M1-M48	Actual M1-M48
Total number of website visitors	18,000	20,045
Number of EU/EEA countries reached through website	31	31
Total number of referrals	7,000	5,886 ¹⁶
Number of contacts in the mailing list	350	283
Number of twitter followers	950	1044
Avg. monthly number of tweet impressions	12,000	12,473
Number of joint events	9-10	12
Avg. number of attendees at joint events	30	21
Number of leaflets/other publicity materials distributed (to partners)	7,000	>7.300
Number of presentations/posters at conferences, workshops, etc.	55	72
Number of attendees reached at conferences	>2,100	>3,560
Number of scientific papers	2-4	3
Articles in professional journals and online newsletters	32	>32

Table 3: Evaluation against targets

As can be seen we have reached, and in many cases exceeded our performance targets. Given that this was our last year as a project, we have invested a significant amount of our time and effort in dissemination, and it's rewarding to see that this paid dividends.

One of the performance indicators we perceive as key, is the number of website visitors. This gives a very direct indication of whether we manage to reach and retain an audience. A very important driver of this success for us has been Twitter. More than a newsletter, Twitter provides a platform where news can be shared more easily and more frequently and where interaction is constant. For us, this made it somewhat easier to accept that the number

¹⁶ This number does not include referrals to parts of the PARTHENOS ecosystem which are not the main website. E.g. the total number of referrals to the PARTHENOS Training Suite was 524 (215 via Twitter); the number of referrals to the Standardization Survival Kit was 485 (45 via Twitter). These numbers combined already bring us very close to the target we originally anticipated.



of newsletter subscriptions was a bit lower than we anticipated when we wrote the third year report. This, however, can also be partly attributed to slightly inflated expectations. As explained under 4.3, Mailchimp recently changed its policies and ‘cleaned’ lists of subscribers. The good news is that this means that the number of subscribers we report here only consists of people who are interested and does not include bots and email addresses were the newsletter bounces.

Another target we missed, is the average attendance in our joint events. One reason for this is that we organised more joint events than originally planned during the last 18 months and whilst most of these attracted 25-30 people, the two exceptions were the IPERION-CH Foresight Workshop and the Twin Talks session at DH Benelux where the lower numbers bring the overall average down. However, overall, we estimate that the number of attendees that we reached at conferences, workshops etc. exceeded 3,500 people.¹⁷

Speaking more generally, we are satisfied that our communication and dissemination efforts resulted not only in a significant number of project followers, but also in the fostering of an engaged community. The latter statement is not easily quantified, but demonstrated still by discussions under our Twitter posts, attendees in our workshops and presentations of our users during the Impact Event. This goes to show that the impact of the project we demonstrate does not only come from our analytics data. The PARTHENOS environment became a lively space for interaction and discussion. We are confident that the outcome of these discussions is not only documented in great detail in our deliverables, products and services. We also believe that, with several other projects and ERIC’s involved in the project, the ties between Research Infrastructures within the Digital Humanities field became ever stronger.

¹⁷ This number was obtained by calculating an average number of attendees from the 21 known values and multiplying it for the 36 events and adding it to the previous figure.



Appendix A: Summary *Liaisons with Other International Initiatives*

Within Work Package 8, Task 8.5 was developed to coordinate and to pool international liaisons and to propose joint plans for fostering these connections. The work of this task was not originally connected to a project deliverable, however, we thought it would be a missed opportunity to not document the work that has been done, which is why the activities of T8.5 are outlined in this appendix.

The task group defined the following individual tasks:

1. Drawing up a survey the existing international relations;
2. Developing a template for agreement on international relations;
3. Organise events aimed at international collaboration;
4. Publish the outcome via our communication channels.

Before these tasks and their outcome are presented, it is worth to shed some additional light on the term “international”. In the language of the European Commission, “international” normally means “outside of Europe”. This means that there is a difference between the terms “European” and “international”. For the purpose of the work conducted under this task however, we were interested in *all* collaboration outside of the project consortium, whether with European partners or truly international (or rather: intercontinental) partners. In the survey described below, around 20% were actually outside of Europe, described as “worldwide”, “Japan”, “US” or similar; a noteworthy result.

Survey of existing international relations

As mentioned, the first result of the task was a useful collection of relations, projects and collaborations that PARTHENOS’ partners and other parties are or have been involved in, in addition to the project itself.¹⁸ The overview allows users to filter the selections according to their interests and requirements. E.g. the relevant field (literature, archaeology, digital curation/edition, political science etc.), and also the relevant PARTHENOS topic, such as

¹⁸ The overview is accessible via the following url: https://docs.google.com/spreadsheets/u/1/d/e/2PACX-1vT_sYdubNJE002Pg7JafvYVICQP2fZy2VqseOuVeTFJnCGcfez_ZVx_G--c7hBjigVnmSE9vtDFLzmO/pubhtml?gid=0&single=true



common policies, standards, tools and services etc. The purpose of showing this overview is to provide an inspiration for furthering collaboration.

Below we are showing some statistics based on the material. Figure 35 shows that the percentage of relations to different organisational structures is almost identical.

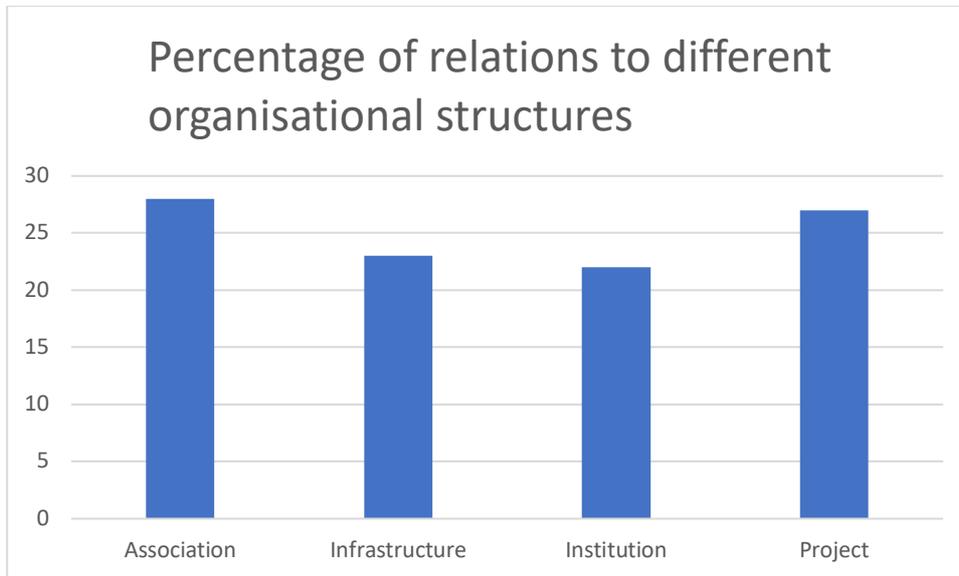


Figure 35: The percentage of relations to different organisational structures

Here it should be noted that collaboration with a project is by definition not a long lasting relationship (as they always have an end date). Therefore, in order for such a relationship to be sustainable, efforts need to be made to transit a relationship to a more permanent organisation.

PARTHENOS defined a number of topics: common policies, standards etc. The focus of the collaborations is given in the next diagram, where we see that the three first categories are the most popular: “common policies”, “standards” and “tools and services”. In this case, our numbers are not relative but absolute, as a collaboration may have more than one focus.

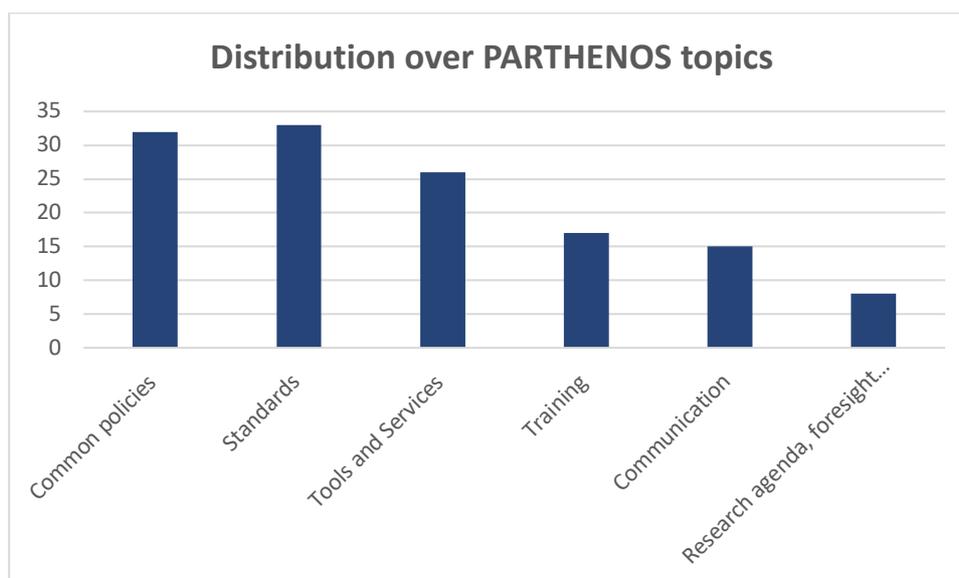


Figure 36: Distribution of the interests of our relations

Template for agreement on international relations

In order to facilitate the establishment of collaboration agreements, PARTHENOS has created a template for such agreements. The template mentions some common areas of collaboration such as: workshops, research visits and common projects. However, the template can be used for other forms of collaboration just as well. Like other forms of project output, the template is stored in the PARTHENOS Hub Repository.¹⁹

Events aimed at international collaboration

In the extension phase, several events were held in order to further international collaboration outside of Europe.

- Between 1 and 5 July 2019, the workshop *Digital Humanities - The Perspective of Africa* was held in Leiden, The Netherlands. This workshop was a satellite workshop of DH2019, the international ADHO conference for the Digital Humanities in Utrecht 9-12 July 2019. The Lorentz Center in Leiden hosted this workshop aimed at the articulation of the specific developments in the field of digital humanities that are taking shape in Africa and their potential to enhance the global

¹⁹ See: Bente Maegaard et al. 'Memorandum of Understanding template for international collaboration', 18 February 2019, DOI: 10.5281/zenodo.2668918.

DH agenda. In addition, the purpose was capacity building and the planning of initiatives along the lines of ‘science4development’. The programme included introductions into the infrastructural support for DH (including training materials developed within the PARTHENOS project) and the most widely used data analysis methods within the humanities and social sciences. The workshop had 30 participants from many different African countries. The workshop was supported by PARTHENOS and many other partners.²⁰

A visit was made to the Library of the African Studies Centre Leiden:



Figure 37: Workshop attendees visiting the Library of the African Studies Centre Leiden

Many new connections were formed, and plans for future collaboration were drafted. As an example, the intention is that the workshop will be followed up at the next ADHO DH conference which will be held in Ottawa, Canada. Ideas for activities to take place on the African continent were also discussed.

- On 5 and 6 September 2019 a workshop was held at Rhodes University, Grahamstown, South Africa. This workshop was held in collaboration with the South African infrastructure project SADiLaR, based at North West University. This workshop, which was attended by 20 participants, was intended primarily for South African participants. Again, the programme focused partly on PARTHENOS results,

²⁰ For more information on who made this workshop possible, see: <https://dhafrica.blog/sponsors/>.

partly on language technology tools and services that are made available by CLARIN.



Figure 38: Workshop participants at the computer lab of Rhodes University

As South Africa has 11 official languages, there were good discussions on cross-country collaboration in linguistics. The country is already an observer in CLARIN, so collaboration opportunities in the language area are obvious. But there is also interest in the PARTHENOS Virtual Research Environment, another collaboration opportunity for the future.

A follow-up of this workshop could take place in 2020 with participation from a larger number of African countries, like the Leiden workshop, but held in South Africa.

Communication and website

Throughout the project, the PARTHENOS portal has been the main communication channel for the task that focusses on international collaboration. A specific page for this part of the project was also created.²¹ On this page, the overview of existing collaborations is presented, so is the link to the collaboration template and a small number of interviews with

²¹ See: <http://www.parthenos-project.eu/portal/international>.



participants who collaborated with international partners. In these short Q&A-structured blogs, they explain the purpose of collaborating and what the benefits have been.

Final comments on *Liaisons With Other International Initiatives*

The structuring of the various forms, purposes and outcome of international collaboration has been fruitful. Seeing international collaboration from many angles has certainly brought new insights, and the dedicated work has shown many different perspectives which will be followed up in various ways in the future.

The collaborative workshops between PARTHENOS' European partners and African partners have clearly shown common interests and clear opportunities for collaboration as well. The most important obstacle for continued collaborative workshops between e.g. Europe and Africa and their follow-up in common projects, is funding, so the participants in both continents will continue to search for opportunities to make this happen.



Appendix B: Summary evaluation of activities during the extension

In the original planning of PARTHENOS, many deliverables were scheduled to be submitted over the fourth year of the project, especially when approaching M48. Many of the products and services were also still under development over the original final months of the project, which would leave a relatively short time to promote their release. Opportunities to disseminate them however, would be plenty after April 2019. Many of the events of both our own project partners (DARIAH, CLARIN, EHRI), as well as larger digital humanities conferences (DH2019, DHBenelux) were already planned over the summer and early autumn of 2019. For these reasons, we concluded that an extra six months for dissemination would be beneficial to promote our products and services successfully. This was proposed in the PARTHENOS project extension proposal, which was accepted in the Summer of 2018.

In this appendix, firstly, we provide an overview of all the activities that were carried out during the extension period. As will be demonstrated, the form of dissemination activities that were carried out are wide-ranging, from promotional activities at (digital humanities) events, as well as efforts to make output more accessible (e.g. by translating it). Secondly, the impact of the events will be demonstrated through a variety of metrics. If applicable, these will be compared to our metrics of year 4 as reported under section 5. Summary evaluation of activities during fourth year.

Dissemination activities during the extension

In the PARTHENOS project extension proposal, a list of activities was proposed to take place during the extension. The majority of these activities was successfully conducted. Some of the activities did not take place. The primary reason for this was that some of our partners struggled to retain staff that was involved in the project as earlier contractual agreements did not allow the possibility to retain them during the extension. As the extension was budget neutral – i.e.: the remainder of the budget would be used; no extra funding was needed – this did not have a financial impact except for a couple of partners who had less



budget left than anticipated which also contributed to the cancellation of some of the proposed activities.

On the other hand, the fact that some partners could not contribute as much to the extension as they originally hoped, did free up budget for other members of the consortium which did retain an actively involved staff until the end of the extension. These partners often developed new activities which made up for the ones that had to be abandoned. This worked out well; while 19 activities had to be abandoned due to capacity problems, 25 new ones were initiated. Four activities were not carried out in PARTHENOS, but were transferred to DARIAH and CLARIN.

Below, an overview of all activities. The ones with the bold text “**New.**” were not in the original extension proposal, but added later.

Date	Activity	Organisation	Status
April 2019	New. Research Data Management session for PhD students (presented the Training Suite and the PARTHENOS Guidelines)	NIOD	Completed
April 2019	New. Futures of archives workshop at University Maryland / Smithsonian Institute (foresight). Focused on computational methods in archives, and future of LIS/archival education.	KCL	Completed
May 2019	New. Presentation at the DARIAH Annual Event	INRIA	Completed
May 2019	Presentation of Foresight Study at the DARIAH Annual Event. Additional proposal to publish this as a working paper for DARIAH.DE	PIN	Completed
May 2019	PARTHENOS Hub: "The Humanities Foresight Issue". Online since 8 May.	KCL, FHP	Completed
May 2019	Webinar series	CLARIN (Leipzig), AA	Abandoned



May 2019	New. Presentation on computational methods at XVII Congr�s d'Arxiv�stica de Catalunya (foresight)	KCL	Completed
May 2019	New. SSHOC Workshop	FORTH	Completed
May 2019	Joint workshop on SSK	AA, INRIA, CNRS	Completed
May 2019	New. DARIAH Annual Event: Poster presentation "Guidelines to FAIRify data management and make data reusable". Poster presentation + ca. 100 flyers distributed	KNAW-DANS	Completed
May 2019	DARIAH Annual Event: Presentation of BBT with especial emphasis on expansion through PARTHENOS and work on approving new terms	FORTH, AA	Completed
May 2019	WP4 Task 4.7 Workshop: Developing the SSHOC Reference Ontology. Presentation of PARTHENOS Workflows from SSK activities	FORTH	Completed
May 2019	RUBRICA workshop at GA SISMELE	SISMELE	Abandoned
May 2019	New. Distribution of "Guidelines to FAIRify data management and make data reusable" at ICML XVII. Ca. 30 flyers distributed	KNAW-DANS	Completed
June 2019	Linked Conservation Data – Terminology Workshop. Presentation of Backbone Thesaurus Workflow with particular emphasis on PARTHENOS Vocabularies (https://www.ligatus.org.uk/lcd/meeting/terminology).	FORTH	Completed
June 2019	CIDOC CRM SIG. Presentation of PARTHENOS Entities Model to CRM SIG for decision to accept as part of standard (http://www.cidoc-crm.org/Meeting/44th-cidoc-crm-and-37th-frbr-crm).	FORTH	Completed



June 2019	Virtual Meetings to Share PARTHENOS Entities Model Experience to Ariadne+. Share PARTHENOS modelling experience in order to widen adoption	FORTH, CNR	Completed
June 2019	Summer School on 3D	CNRS	Abandoned
June 2019	Liaison with other communities	TCD	Abandoned
June 2019	Workshop AA-DARIAH	AA	Abandoned
June 2019	Foresight Study Paper DARIAH annual event (was originally a workshop)	KCL	Completed
June 2019	Translation and promotion of DMP and guidelines. German, Italian and Greek translations done - redesigned - now going through final checks - Hungarian version - French version is happening	PIN, ICCU	Completed
June 2019	New. OPTO-CH 2019 POLITEIA II Summer Course "Laser technologies in Cultural Heritage analysis, diagnosis and conservation" - Dissemination of PARTHENOS Training Modules, SSKs and Guidelines on Documentation Models, Standardisation and FAIR principles in Heritage Science. Dissemination of PARTHENOS Training Modules, SSKs and Guidelines on Documentation Models, Standardisation and FAIR principles in Heritage Science.	FORTH	Completed
June 2019	New. Heritage Dot - panel on RDM education (WP7)	KCL	Completed
June 2019	New. Presentation about "Guidelines to FAIRify data management and make data reusable" at CARARE meeting (Amersfoort) + ca. 50 flyers distributed.	KNAW-DANS	Completed
June 2019	Presentation of PARTHENOS Entities Model, JRR, Discovery Services to SARI Network. Proposal to SARI on adoption of PEM	FORTH, OAEW	Completed



June 2019	New. Presentation about "Guidelines to FAIRify data management and make data reusable" at SEADDA meeting (Zagreb). Ca. 50 flyers distributed	KNAW-DANS	Completed
June 2019	New. CRM SIG PARTHENOS Entities Model and BBT Presentation	FORTH	Completed
July 2019	EHRI Conference Holocaust Studies and its Social Setting. Booth at market place conference.	NIOD / EHRI	Completed
July 2019	New. DH 2019 pre-conference workshop: DH - the perspective of Africa - DH-workshop with African scholars; Leiden (NL); website: http://dhafrica.blog	CLARIN	Completed
July 2019	New. DH 2019 pre-conference workshop: Libraries as Research Partner in Digital Humanities - lightning talk - https://adholibdh.github.io/dh2019-preconference/	CLARIN	Completed
July 2019	DH 2019 conference - booth etc.	PIN, NIOD-KNAW, CLARIN	Completed
July 2019	DH 2019 conference - RUBRICA workshop	SISMEL	Abandoned
July 2019	DH 2019 conference - Foresight workshop	KCL	Abandoned
July 2019	DH 2019 conference - RDM Workshop → changed to paper	KCL	Completed
July 2019	DH 2019 conference - CLARIN Language Switchboard		Abandoned
July 2019	DH 2019 conference - Presentation on training	TCD	Completed
July 2019	PARTHENOS Hub: "Formal Ontologies module experience Issue"	TCD, FHP	Abandoned



July 2019	New. DH 2019 conference - Presentation on PARTHENOS webinars	FHP	Completed
July 2019	New. AERI (Archival Education and Research Initiative) - paper on RDM education (WP7)	KCL	Completed
July 2019	New. AERI - on panel addressing future of LIS education (foresight)	KCL	Completed
July 2019	RUBRICA workshop at International Medieval Congress	SISMEL	Abandoned
August 2019	New. ARA (Archives and Records Association) - on panel addressing digital futures of archives (foresight)	KCL	Completed
September 2019	Train the trainers master school. Will continue under DARIAH.	TCD	Transferred
September 2019	Flipped' training school for cultural heritage. Will continue under DARIAH.	TCD	Transferred
September 2019	Pre-conference workshop DH Benelux	INRIA	Completed
September 2019	DH Benelux - RUBRICA workshop	SISMEL	Abandoned
September 2019	DH Benelux - Foresight paper. Changed to 'paper' (originally listed as 'workshop')	KCL	Completed
September 2019	DH Benelux - Training and RI's	TCD	Abandoned
September 2019	DH Benelux - RDM workshop	KCL	Abandoned
September 2019	New. DH Benelux - Poster DH Course Registry. Co-authors: Tom Gheldof, Tanja Wissik	CLARIN	Completed
September 2019	New. Foresight sustainability meetings at University of Maryland	KCL	Completed



September 2019	New. Finalize workshop template based on "Guidelines to FAIRify data management and make data reusable"	KNAW-DANS	Abandoned
September 2019	New. Workshop "Defining FAIR in the SSH: issues, cultures and practical implementations"	PIN	Completed
September 2019	Workshop in South Africa, Rhodes University, 5-6 September	CLARIN	Completed
September 2019	TwinTalks 2 at DH Benelux 2019	CLARIN	Completed
September 2019	PARTHENOS Hub: "PARTHENOS Papers"	NIOD, PIN, FHP	Completed
October 2019	New. Workshop at Makerere University, Uganda - on advancing digital aspects of LIS/archives curricula in region. Presented PARTHENOS training materials and relevant aspects of the foresight study.	KCL	Completed
October 2019	New. PARTHENOS stand at CLARIN Annual Event Bazaar	NIOD-KNAW	Completed
October 2019	Foresight talk at state archives in Maryland (USA)	KCL	Completed
October 2019	New. Distribution of "Guidelines to FAIRify data management and make data reusable"	KNAW-DANS	Completed
October 2019	Workshop in CEE	CLARIN	Completed
October 2019	PARTHENOS Hub: "The PARTHENOS Hub: everything and more"	(T8.3 members), FHP	Completed
2019	Training focussed on archivists. Replaced with "FAIRify – data management transcending to curricula" proposal.	FHP	Abandoned
2019	Workshop with AA on Rubrica	AA	Abandoned



2019	Workshop on DMP and Guidelines. Will continue under ARIADNE+	PIN, ICCU	Transferred
2019	Foresight Study Workshop at Digital Cultural Heritage	KCL	Abandoned
2019	New. "FAIRify – data management transcending to curricula"	FHP	Completed
2019	PARTHENOS-IPERION workshop	FORTH	Cancelled
2019	PARTHENOS-IPERION workshop	FORTH	Cancelled
Continuous activities	Impact assessment	NIOD	Completed
Continuous activities	Translation of Guidelines into German and Italian	KNAW-DANS	Completed
Continuous activities	International collaboration interviews etc.	CLARIN	Completed
Continuous activities	Sustainability work. Will continue under DARIAH in conjunction with CLARIN	TCD	Transferred
Continuous activities	New. Foresight sustainability work, including networking/meetings	KCL	Completed
Continuous activities	PARTHENOS Hub - Dissemination and communication	FHP	Completed
Continuous activities	PARTHENOS data model	PIN, FORTH	Completed
Continuous activities	PARTHENOS VRE Data Normalization Activities	FORTH	Completed
Continuous activities	Promoting and securing WP2 legacy	CLARIN	Cancelled



Impact Assessment

The creation of products has not been PARTHENOS' ultimate goal. More importantly, PARTHENOS has always aspired to leave a mark in the digital humanities landscape by providing researchers, policy-makers and Research Infrastructures with the right tools and know-how to innovate their work practices and come to new insights.

This is why it was considered valuable to conduct impact measurements over the past years. At the end of each reporting period, the metrics as listed in section 5 – 'Summary evaluation of activities during fourth year' – were always evaluated, and new targets were set for the next year.

Below, we gathered more specific information around the use of both the tools we have developed, as well as the documents we have drafted. Before we report on these however, it is useful to establish whether the baseline of our communication has been similar as in previous reporting periods. This helps to create a general overview of how much 'buzz' we managed to generate during the extension.

PARTHENOS Website

In section 5 – 'Summary evaluation of activities during fourth year' – we reported that the PARTHENOS website attracted 5,964 visitors over the course of the fourth year. Together, these users generated 9,212 sessions.

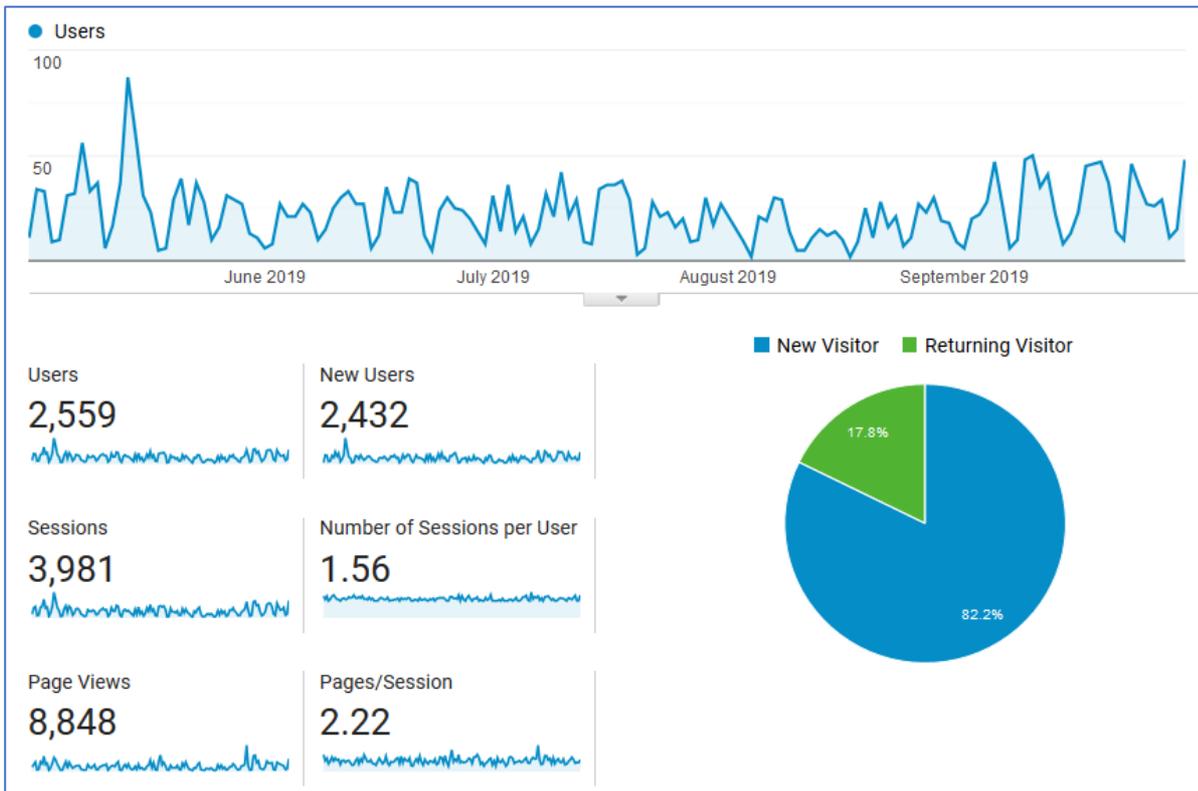


Figure 39: PARTHENOS Website Analytics May 2019 – September 2019

Over the past 5 months, we attracted 2,559 users, which translates into 512 users per month on average. Over the same period, they created 3,981 sessions; averaging 796 monthly. When we extrapolate these statistics to yearly numbers, 2,559 users per 5 months would translate into an expected 6,142 users per year; 3,981 sessions per 5 month equals 9,554 sessions on average per year. Both numbers are slightly higher than the yearly numbers of over fourth year report. This means that, even despite the Holiday season being included in these five months, we attracted slightly more attention during the extension.

Social Media

Over the course of our extension, our Twitter following increased from 1,044 accounts at the end of April to 1,145 at the end of August, which is close to a 10% increase. This illustrates that we still managed to attract the attention of new followers. In the same time-frame, our Facebook following increased from 104 to 119, which is roughly 14% more over the course of 4 months.



The number of subscribers to our mailing list over the extension is less stellar, as we went down from 283 subscriptions in late April 2019 to 272 in August. Possibly, this can be contributed to the project ending, which might have caused PARTHENOS to unsubscribe. Unlike Twitter, we don't communicate via our newsletter on a daily basis, which most likely is the cause that it was harder to entice new people to subscribe in their place. However, with our social media functioning in full swing, we are confident that we had the potential to keep reaching a significant audience which, during the extension, was bigger than it has ever been.

Products and Services

Below, you will find an evaluation of the user statistics of various products and services:

SSK

1 May – 30 September 2019

Number of page views: **7,117**
Unique page views: **1,899**
Average time on page: **2m 37s**

Over the first 5 months of the extension, the SSK attracted a significant amount of traffic. Apart from the usual promotion of the SSK through our social media channels, a significant number of workshops was organised to co-create new scenario's.

Training Suite

1 May – 30 September 2018 ²²

Number of page views: **6,054**
Unique page views: **4,663**
Average time on page: **1m 32s**

²² Over the course of the fourth year, the Training Suite was migrated. Because Google Analytics data are not available on the period after the migration, the same five months as the SSK have been analysed (May – September), but from the previous year (2018). By adhering to this same timeframe, an accurate and comparable representation of the use of the Training Suite can still be provided.



The Training Suite has always had a steady number of visitors over the course of the project. New content always kept the attention at a relatively high level. Newly released modules were always accompanied by a social media campaign to draw attention to them. Around both the SSK and the Training Suite, a video was also developed which was widely shared through all the channels available to us.

Policy Wizard

1 May – 30 September 2019

Number of page views: **123**

Unique page views: **86**

Average time on page: **0m 59s**

While the Wizard is live and functional, the number of users of the tool has been significantly lower than that of the SSK and the Training Suite. Filling the wizard with useful content is not a small task. This process will also continue under the umbrella of the project ARIADNEplus and, likewise, the promotion of the Wizard. It is promising that the infrastructure of the tool has already been built and can be improved upon in the future. As an alternative source of information on policy and best practices, users have found the booklet with policy guidelines very informative. Zenodo currently registers 704 views and 274 downloads of the PDF version of the booklet. Moreover, printed versions of the booklet have also been widely disseminated.

VRE

1 May – 31 July 2019²³

Users: **4,532**

Sessions: **5,858**

Average session duration: **8m 34s**

²³ Information on user statistics could not be gathered by the WP8 team directly as it was hosted on another infrastructure (D4Science). As we needed to liaise here with different partners, statistics could not be gathered close to the deadline of the project. For that reason, they run until 31 July, instead of 20 September.



As the VRE is an environment rather than a webpage, the statistics look slightly different here. Nevertheless, the numbers of users and sessions are comparable to what we have seen earlier for the Training Suite and the SSK. Like these other two environments, the VRE had both a community which actively worked on it, During the extension, workshops were also organised around, for instance, the PARTHENOS Entities Model.

Documentation

As demonstrated in the example of the PARTHENOS Policy Guidelines above, tools were not the only medium to disseminate the output of tasks. Below, we provide an overview of the amount of views and downloads our output has received. The measurements were collected at the end of June and form an aggregation of the views and downloads on Zenodo, where we store most of our documents in an environment entitled “The PARTHENOS Hub”, and HAL, a repository used by primarily our French partners. Most of the documents are only uploaded on Zenodo²⁴, but when a publication was on both platforms, we wanted to combine the attention they received in both places.

Deliverables

Title	Upload date	Views	Downloads
PARTHENOS D2.1 Report on User Requirements	20 October 2016	56	35
PARTHENOS D2.2 Report on the assessment of the education and training plans and activities	28 October 2016	20	5
PARTHENOS D2.3 Report on the assessment of data policies and standardization	31 July 2017	14	12
PARTHENOS D2.4 Report on the assessment of interoperability, services and tools	25 April 2018	9	8
PARTHENOS D3.1 Guidelines for Common Policies Implementation (1)	25 April 2017	21	13

²⁴ Where a Deliverable was an update of a previous version, only the final version is uploaded.



PARTHENOS D3.2 Guidelines for Common Policies Implementation (Final)	30 January 2019	62	31
PARTHENOS D3.3 Foresight Study and Interdisciplinary Research Agenda	29 April 2019	83	71
PARTHENOS D4.1 Standardization Survival Kit	October 31 2016	15	13
PARTHENOS D4.2 Report on Standardization	26 May 2017	14	11
PARTHENOS D4.3 Standardization Survival Kit – Final	31 October 2018	377	518
PARTHENOS D4.4 Report on Standardization – Final	19 March 2019	35	30
PARTHENOS D5.1 Report on the Common Semantic Framework	30 April 2017	17	13
PARTHENOS D5.2 Design of the Joint Resource Registry	12 April 2017	20	13
PARTHENOS D5.4 Report on the Integration of Reference Resources	31 October 2017	13	10
PARTHENOS D5.5 Report on the Common Semantic Framework	31 October 2018	35	28
PARTHENOS D5.6 Report on Mappings (Final)	28 February 2019	17	16
PARTHENOS D5.7 Report on the Integration of Reference Resources	31 January 2019	10	11
PARTHENOS D5.8 Report on Common Design Requirements	30 January 2019	6	5
PARTHENOS D6.1 PARTHENOS Cloud Infrastructure	31 October 2016	7	5
PARTHENOS D6.2 Report on services and tools	28 April 2017	13	10
PARTHENOS D6.3 Report on the implementation of the Joint Resource Registry (interim)	27 November 218	8	5



PARTHENOS D6.4 Report on services and tools (final)	20 March 2019	30	17
PARTHENOS D6.5 Report on the implementation of the Joint Resource Registry (Final)	15 April 2019	22	8
PARTHENOS D6.6 PARTHENOS Cloud Infrastructure (final)	30 April 2019	11	10
PARTHENOS D7.1 Initial Training Plan	7 June 2016	40	23
PARTHENOS D7.2 Report on training and education activities and updated planning	22 April 2017	24	22
PARTHENOS D7.3 Final Report on Training and Education Activities	15 January 2019	28	21
PARTHENOS D7.4 Report on the assessment of Transnational Access activities in participating projects	31 October 2018	36	18
PARTHENOS D8.2 Initial Communication Plan	28 July 2015	22	11
PARTHENOS D8.3 First Year Communication Report, and Updated Communication Plan	6 May 2019	7	5
PARTHENOS D8.4 Second Year Communication Report, and Updated Communication Plan	28 July 2017	4	2
PARTHENOS D8.5 Third Year Communication Report, and Updated Communication Plan	30 July 2018	11	10

Webinar Powerpoints

Title	Upload date	Views	Downloads
Boost your eHumanities and eHeritage research with Research Infrastructures	3 May 2018	53	66



Create impact with your eHumanities and eHeritage research	14 February 2018	203	84
e-Humanities and e-Heritage Research Infrastructures: Beyond tools	13 March 2018	138	33
How to work together successfully with e-Humanities and e-Heritage Research Infrastructures	14 March 2018	128	61
Make it Happen – Carrying out Research and Analysing Data	16 April 2018	63	30

Miscellaneous

Title	Upload date	Views	Downloads
Addressing challenges in scientific communication - The PARTHENOS Hub as a DH publication and interaction platform	8 June 2018	12	13
Connecting the Humanities through Research Infrastructures (Conference Paper)	25 February 2019	84	94
Creating gold data to understand the gender gap in the French textile trades (17th–20th century). Time-Us project	26 July 2018	167	61
Le Standardization Survival Kit (SSK) : Faciliter l'usage des standards dans les Humanités	26 July 2018	123	90
Information Sheet for Participants in the PARTHENOS Foresight Study	9 April 2019	14	18
Memorandum of Understanding template for international collaboration	18 February 2019	24	7
PARTHENOS Guidelines to FAIRify data management and make data reusable ²⁵	1 December 2018	704	274

²⁵ Number collected 22 October 2019



PARTHENOS Mappings (Dataset)	21 February 2019	99	16
PARTHENOS White Paper I: Digital 3D Objects in Art and Humanities: challenges of creation, interoperability and preservation (Paper)	27 June 2019	10	11
PARTHENOS White Paper II: Share — Publish — Store — Preserve. Methodologies, Tools and Challenges for 3D Use in Social Sciences and Humanities (Paper)	27 June 2019	875	129
Retro-digitizing and Automatically Structuring a Large Bibliography Collection	1 September 2018	136	87
SSK by example - Make your Arts and Humanities research go standard (Poster)	10 June 2019	83	39
The Standardization Survival Kit (SSK): Bringing best practices to research communities in the Humanities (Presentation)	26 July 2018	123	90
Towards multiscale archival digital data	12 September 2017	322	115

When looking at this overview, two things are particularly noteworthy:

- Output with a specific scope or purpose, written for a particular audience, generally attract more attention than our deliverables. Most of our deliverables are viewed and downloaded somewhere between 10 and 50 times. However, the slides of our webinar are more popular, with the one entitled “Create impact with your eHumanities and eHeritage research” scoring the maximum of 203 views.
- Combining repositories might increase the attention project output receives. The documents on HAL especially seem to attract many visitors. The publication “PARTHENOS White Paper II: Share — Publish — Store —



Preserve. Methodologies, Tools and Challenges for 3D Use in Social Sciences and Humanities (Paper)” on HAL had 875 views as indicated above and now (in October 2019) even over 1.000. This could inform future decision-making on which repository a project should adopted.