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NewsEye

NewsEye: A Digital Investigator for Historical Newspapers

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**D7.11: Dissemination, communication and exploitation of results (e)
(final)**

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The NewsEye Consortium partner responsible for this deliverable has addressed all comments received, making changes as necessary. Changes to this document are detailed in the change log table below.

Change Log

Date	Version	Editor	Summary of changes made
17/12/2021	1.0	Amanda Smith (BNF)	First full draft, delivered to reviewers and project leader.
25/01/2022	2.0	Amanda Smith (BNF)	Modifications taking reviewer comments into account.
28/01/2022	2.1	Amanda Smith (BNF)	Modifications taking quality control into account.
31/01/2022	3.0	Antoine Doucet (ULR)	Minor adjustments and submission.

Executive summary

The plan for exploitation and dissemination of results (PEDR) is a compulsory report for EU Horizon 2020 projects, which sets out both the strategy and concrete actions taken as of its inception to disseminate and exploit project outputs. The PEDR is updated annually and serves as a monitoring and progress report on dissemination and exploitation activities in the context of the NewsEye project. This report is the fifth and final report, which is the fourth update to the PEDR report since its first iteration in 2018. As this is the first public version of this report, it will briefly recap the activities carried out during the first three years of the project before focusing on the extension period.

This deliverable, PEDR (final), firstly states the key annual milestones in communication, dissemination and exploitation to date, and secondly reports on the communication, dissemination and exploitation activities undertaken during the project's initial duration and its subsequent nine-month extension. This is achieved by a qualitative analysis of each channel and tool as well as revisiting the quantitative key performance indicators (KPIs) set for this work package (WP7- Communication, Dissemination and Exploitation).

Finally, after the reporting on the statistics of this final period, we end the report with an overview of each of the project channels, assets and outputs and compare their KPIs across the reporting years of the project.

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1 About NewsEye

Newspapers collect information about cultural, political and social events in a more detailed and holistic way than any other public record. Since their beginnings in the 17th century, they have recorded billions of events, stories and names, in almost every language and every country, every day. Newspapers have, thus, always been an important medium for the dissemination of public and political opinions, literary works, essays and art. This wealth of information sets them at the centre stage for anyone interested in European cultural heritage. Since the late-20th century, millions of digitised newspaper pages have been available online and can be accessed individually, but their number makes the amount of information overwhelming and impossible to analyse for readers.

[NewsEye: A Digital Investigator for Historical Newspapers](#), a research project which ran from May 2018 to January 2022, advanced the state of the art and introduced new concepts, methods and tools for digital humanities by providing enhanced access to historical newspapers for a wide range of users. With the tools and methods created by NewsEye, crucial user groups have been able to investigate views and perspectives of historical events and development and, as a consequence, the project has changed the way European digital heritage data is (re)searched, accessed, used and analysed.

The workflow of the project was divided into eight groups, which were referred to by the name of *work packages* or WPs. This report aims to summarise the activities related to the dissemination, communication and exploitation of project results which were carried out during its 45-month span as part of Work Package 7. It should be noted that NewsEye was originally expected to run for 36 months, but it received a 9-month extension due to the COVID-19 pandemic. This period was crucial for this work package as it allowed the project team to disseminate, communicate and make the necessary steps towards project results exploitation in the fullest possible manner.

2 About Work Package 7: Communication, Dissemination and Exploitation

2.1 Ownership and Input

During most of the project's lifespan and until 30 April 2021, Work Package 7 was led by the Austrian National Library (ONB), which was in charge of the communication and PEDR related activities. The ONB team was composed of an exploitation manager (Max Kaiser) and a communications expert (Tonica Hunter). In addition to the above colleagues, all the project partners were required to communicate and disseminate the project results by disclosing them to the public by appropriate means.

All the consortium partners, thereby, contributed to dissemination activities using all the available channels and tools of communication, with the goal of successfully disseminating and exploiting the NewsEye outputs. To this end, the communications expert also established, in 2018, a communications and dissemination task force to coordinate efforts. The members were chosen from each partner institution and covered all the groups (digital humanities, computer scientists and national libraries) for reporting on the related activities and for exchange of new ideas for the project. As a reminder, these partners were:

1. The National Library of Austria (ONB)
2. The National Library of Finland (UH-NLF)
3. The National Library of France (BNF)
4. The University of Helsinki (UH)
5. The University of Innsbruck (UIBK)
6. The University of La Rochelle (ULR)
7. The University of Montpellier (UPVM)
8. The University of Rostock (UROS)

During the project extension from 1 May 2021 to 31 January 2022, Work Package 7 was led by the National Library of France (BNF). In addition to continuing the activities carried out previously by ONB, BNF was also tasked with elaborating a Sustainability Plan, a report which is also publicly consultable as NewsEye Deliverable D7.12 Sustainability Plan (c) (final).

2.2 Communication, Dissemination and Exploitation in NewsEye - Before the Extension Period

Since this is the fourth PEDR update in a series of annual PEDRs produced by the project since 2018, it is necessary to briefly recap the assets established since the project started in order to clarify both the channels, activities and outputs assessed, and their results to date.

2.2.1 Target audiences and stakeholders

The first PEDR release in 2018 set out the strategies for communication, dissemination and exploitation of the project, targeting its stakeholders and end users, as well as the usability of the project results and outputs in a sustainable way looking beyond the project's completion. We include this list below to refer back to how we have maintained the connection with these target audiences through our activities. The project's main target groups identified were:

1. (Digital) Humanities researchers
2. Computer scientists
3. Lay historians (family historians, chroniclers, etc.)
4. Teachers
5. Pupils
6. Students
7. Libraries and their readers
8. Policy Makers
9. General public

The key messaging and steps towards communicating with these target audiences were established in the first deliverable in order to guide our activities and adapt content to the various channels. This first PEDR release also included the results of a stakeholder mapping, which revealed our priority stakeholders and the plan of how to address and communicate with them using the established channels in the first year of the project. Over the project's lifespan, specific outputs were created not only for the general public but also specifically for each of the above listed target groups in order to improve and deepen our connection to them and increase the likelihood of an uptake of the project's results.

2.2.2 Communication, dissemination and exploitation channels and assets - key annual milestones

In 2018, the project logo, strapline and look and style guideline was designed (branding related assets can be found in Appendix A). It has been since used for any (internal or external) deliverable, report and dissemination tool or document, as well as on the website, social media accounts and infographics produced by the project.

The project website was created in 2018 using TYPO3, where all back-end edits, additional tabs and rearranging of tabs and features were controlled. Two members of the team had access to the site: a developer and the communications expert. Both of these experts worked together in close cooperation for optimal results and for producing the website we have today. In the recent months of the project, access has been opened up to other staff to integrate assets (such as Innsbruck for the educational materials, for example). Throughout the project, the website has undergone constant development to keep content informative, relevant and dynamic and updating it with our developments. It has also been available in the four project languages as of the end of 2019: German, French, English and Finnish.

Channels such as the [project website](#), a [Twitter page](#), and the [project podcast site](#) hosted by the University of Vienna were already set up in 2018. These were quickly populated and the communication and dissemination activities already began in 2019, the first reporting year after the plan was set out the year before. For enquiries and/or suggestions on communication, dissemination and exploitation, an official project email address (newseye-communication@ml.univ-lr.fr) was set up in 2018 and published on the project website's [contact page](#).

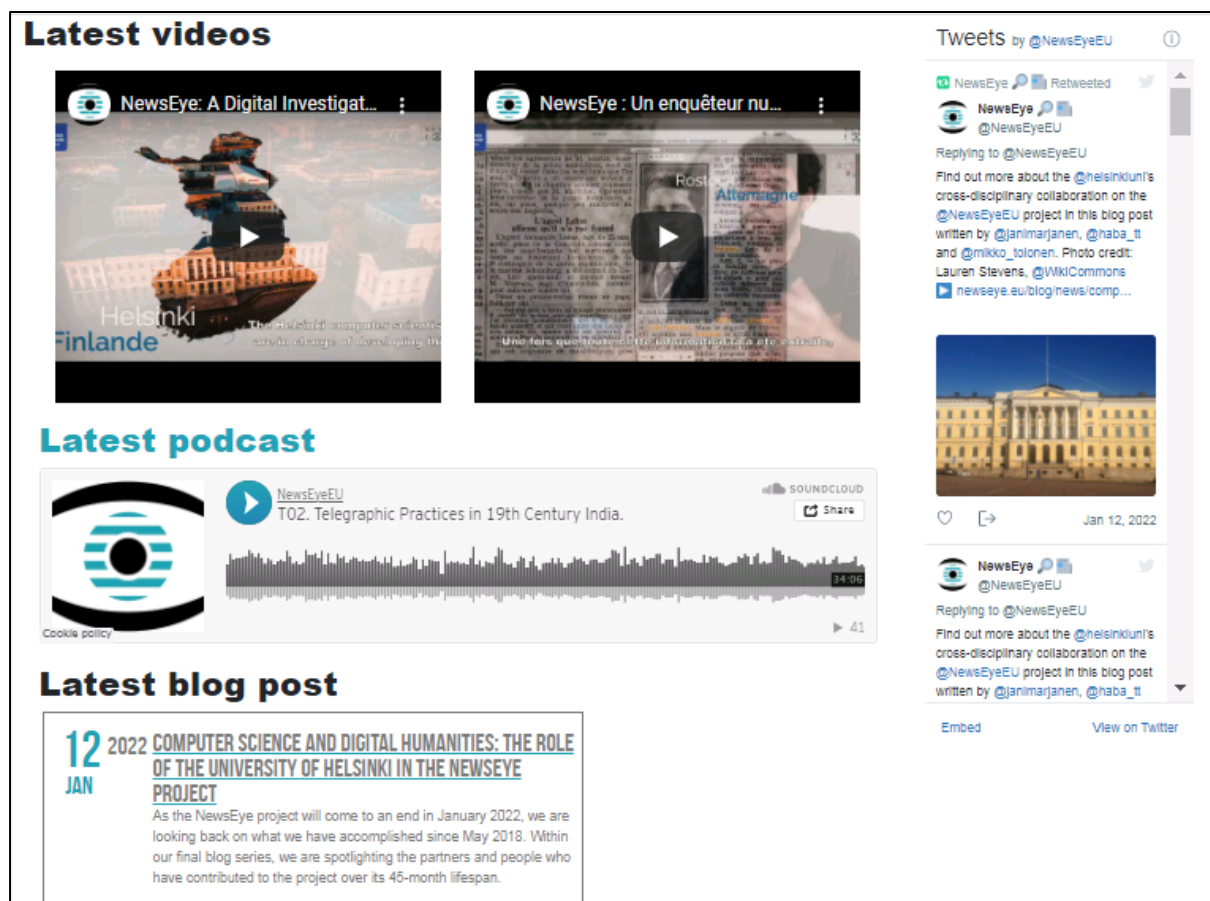
By April 2019 (month 12), the project launched a [YouTube](#) page to host its video assets and opened [Zenodo](#) and [GitHub](#) accounts to record its publications and other project results. These have steadily been populated as we produced more research results and presented them at key conferences and workshops across Europe and beyond. The events were documented in the key event tracker (see Appendix G), detailing the mode of participation, the event and any related activities, which were good leads for exploitation follow ups with stakeholders.

Also in this year, we produced an infographic, which is included in Appendix A of this report, detailing the project's workflow, components and tasks of each consortium member in order to present an overview of the project as a whole to target audiences. In the later iterations, the website was considerably enriched and upgraded. Full details of these changes were presented in the public Deliverable D7.2 about the project website. To recap, two key changes detailed in this report are:

- The landing page was updated to feature more 'hot' content, i.e. rotating events, podcasts and blog posts, so that this was regularly changing.

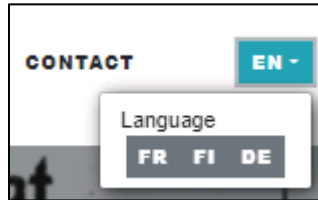


This screenshot from January 2022 shows the current state of top of the homepage. It should be noted that the tabs regarding the NewsEye User Workshops and the ICDAR 2021 Tutorial were added during the project extension period.



This screenshot from January 2022 shows the current state of the NewsEye homepage at the time of writing. It should be noted that the 'Latest video' section is regularly updated manually and the 'Latest blog post' and 'Tweets' are automatically updated upon the publication of posts.

- The website was also translated into the different languages of the project consortium; French, German and Finnish translations were added to the main pages and, where possible, translations were provided for blog posts. This was to diversify content and promote further outreach in various languages.



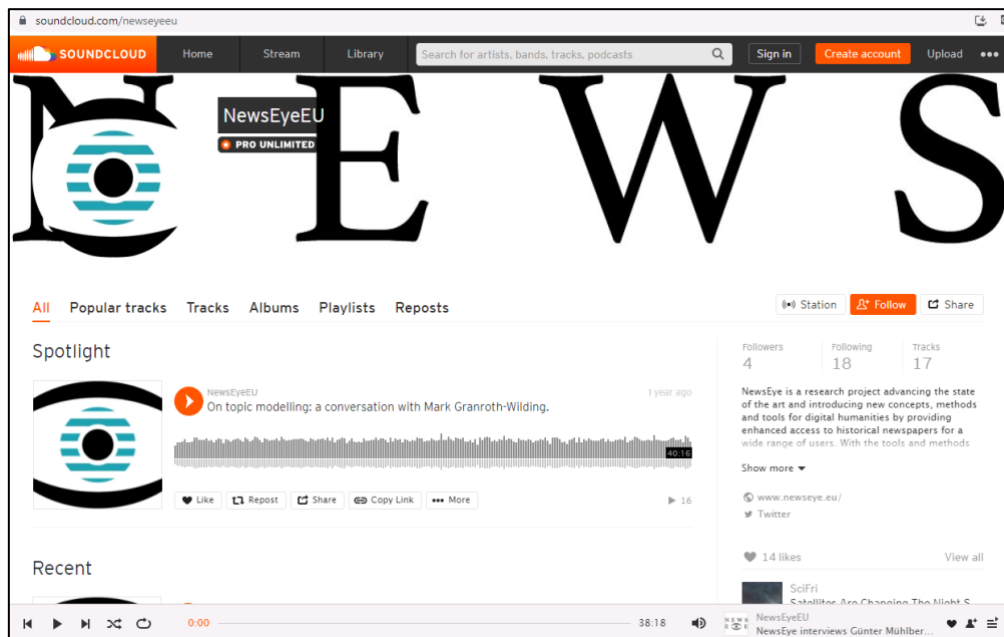
This screenshot shows how users have the option to choose in which language they would like to view the project website, with the choice of [English](#), [Finnish](#), [French](#) and [German](#).

In this same year, the project's exploitation plan was set out and elaborated upon with key leads for follow ups to come in the following years. Documents for associated partnerships and data access were set up to establish formal connections with third parties and agree on which assets of the project would be of use to them and how.

By April 2020 (M24), the second reporting year since the first PEDR release, much progress was made and more content produced on the project's now well-established and populated channels. During this year and the reporting period leading up to it, many key achievements were made which were documented and shared on our social media account. This year, key improvements were made to refine our reporting and measuring of some key KPIs. The podcasts were put on [SoundCloud](#) to measure their play information and give more accurate figures for reporting, as well as add an extra site for dissemination.

The podcast episodes included:

1. [An Introduction to NewsEye](#)
2. [NewsEye interviews Günter Mühlberger \(Uni Innsbruck\)](#)
3. [NewsEye interviews the ÖNB Labs](#)
4. [Research data, suitcase terms and tacit knowledge - An Interview with Jennifer Edmond](#)
5. [Communicating NewsEye, an interview with Tonica Hunter](#)
6. [Eva Pfanzelter on her research and the digital humanities agenda in NewsEye](#)
7. [NewsEye interviews Professor Hannu Toivonen](#)
8. [KI unter genauer Überwachung durch die Mathematik?](#)
9. [We are allowed to be Austrians again! interview with Stefan Hechl](#)
10. [Historische Migrationsforschung in digitalisierten Zeitungsbeständen mit Sarah Oberbichler](#)
11. ["Manage Expectations" - interview w/ NewsEye project coordinator Antoine Doucet](#)
12. [Digitale Zeitungen als Inspiration für die Lehre](#)
13. [On topic modelling: a conversation with Mark Granroth-Wilding](#)
14. [Eco Systems in Teaching and Open Science / Influencing the Digital Culture](#)
15. [The Demonstrator. Platform, Architecture, Data: An interview with Axel Jean-Caurant](#)
16. [T01. Telegraphie / Globalisierung / Journalismus](#)
17. [T02. Telegraphic Practices in 19th Century India.](#)



The NewsEye SoundCloud page contains all seventeen podcast episodes.

We also adapted our measurements for key performance indicators (KPIs) to consider the changes the pandemic brought to events, while exchanging our printed assets and the related opportunities for branded outputs of the results. This meant online conferences, downloads of our materials and graphics could be measured in a different way and still showed the continued work and outputs despite the pandemic. It is worth noting the increased number of online conferences and workshops, as well as postponed event dates.

YouTube content was upgraded with the addition of tutorials on how to use the project's demonstrator platform. In addition to this, we branched out in terms of having third parties use our tools publicly: i.e. working with a French vlogger/YouTuber to delve into the archives of the National Library of France and showing the benefits of the project's Demonstrator, which happened to be one of our most viewed videos, with [over 10,000 views to date](#).



This screen cap from the video, which was filmed at the National Library of France, shows Project Coordinator Antoine Doucet explaining NewsEye's objective to make digitised press collections more widely accessible.

The project's Twitter followship grew immensely, almost tripling previous year's figures as a result of more refined following of key opinion holders and accounts in Europe and across the world and by participation and tweeting of our presence and presentations at top conferences such as the International Conference on Document Analysis and Recognition (ICDAR), the Conference on Computational Natural Language Learning (CoNLL) and the European Conference on Information Retrieval (ECIR).

This year was particularly important for the documentation of exploitation efforts. To monitor this, a KER (key exploitable result) survey was set up and conducted with each work package (institution-led, workflow divisions) of the project to assess their development of results and monitor exploitation potential each year. This survey was composed of the following questions:

1. For your WP, what are the stakeholders that should be targeted for exploitation activities? Please be as concrete as possible: e.g. instead of 'library', please list concrete libraries which should be approached, instead of 'SME', please list concrete company names etc.
2. Revisiting the KER (Key Exploitable Results) table (PEDR (b), p35f): are there results which you think can be added to this list or removed for the purpose of redefining what we can be exploited and what is no longer relevant outside of the project scope? Can you please list all results of your WP that are relevant for exploitation? (Results are not just software, but also data, models etc.)
3. Please map KERs against stakeholders: which stakeholders should be approached for which KER?
4. Revisiting TRLs ([Technology Readiness Levels](#), see from the Description of Action (DOA): part B p 9–11): Hold the expected TLRs from the DOA still true for the results of your WP? What is the current TLR for each KER? What consequences does this have for the exploitation of the results?
5. What support do you need in terms of exploitation: Is it tools to reach out to stakeholders, is it setting up of meetings? Agreement templates? Etc.
6. Any further suggestions, remarks?

Connections to other projects working on related topics and with an interest in newspaper data were explored. One key partnership lead already developed in that year was with [READ-COOP](#) whose progress is reported in Section 5. Discussion with the [Living with Machines](#) project was engaged during a NewsEye steering committee in London. Strong collaboration was also notably engaged with the Swiss-Luxembourgish [Impresso project](#), as well as [Europeana](#). In fact, Europeana even published an article on their website entitled [Doing historical research with digital newspapers – Perspectives of DH Scholars](#), which was written by the NewsEye team members.

For the purposes of evaluation of our communication and dissemination activities, quantitative indicators and associated metrics were set up at the very beginning of the project for each year until the project ended. With time, there were updates made to the measuring, i.e. with the addition of SoundCloud or adding the online downloads for metrics with increasingly virtual online conferences and fewer opportunities, due to the pandemic, for the dissemination of printed project assets.

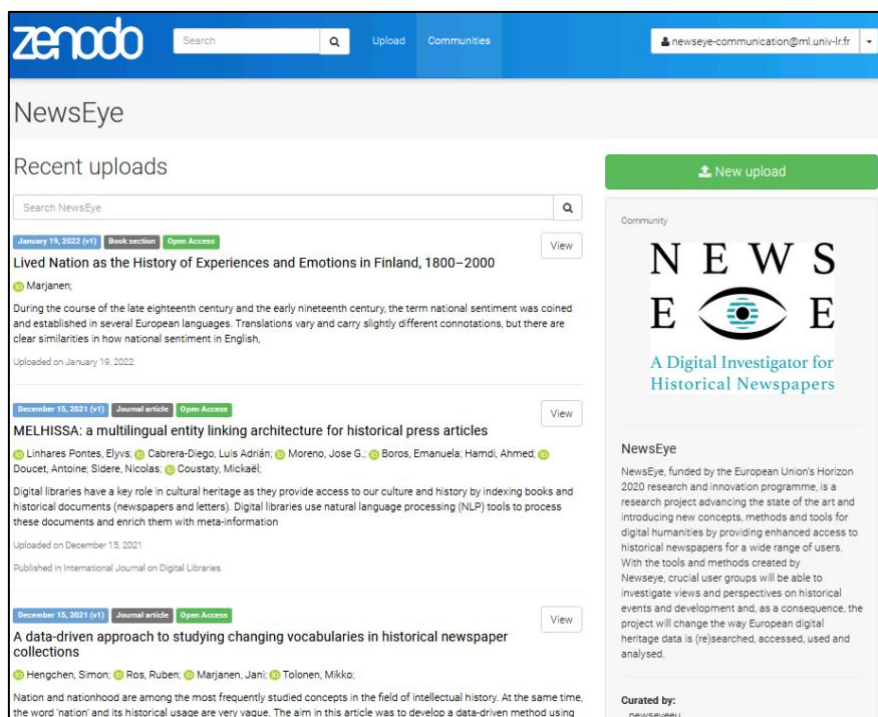
3 Communication and Dissemination Activities - Extension Period

3.1 Scientific Repositories and Publications (online and printed)

As a research project, NewsEye constantly created new research and had a vivid interest in sharing these research results with a wide audience, as well as with smaller target groups and experts. All of NewsEye's outputs, therefore, supported the open science paradigm. The NewsEye project also took into consideration the EU and national copyright legislation with regards to enabling access to data. Open licences were adopted, and the educational material was released under the open education resource (OER) definition. This allowed all of our target audiences, as well as our key stakeholders, to access the project results and monitor the progress of the project as it developed.

3.1.1 Zenodo

The NewsEye Zenodo account was created in January 2019 in order to document scientific publications of various types: conference papers, book chapters and journal articles partly or fully funded by the project. All of the project's related publications have been uploaded to the Zenodo site and are linked to the NewsEye community tag in order to facilitate the retrieval of the results of our work. The full list of material available on Zenodo is available in Appendix B.

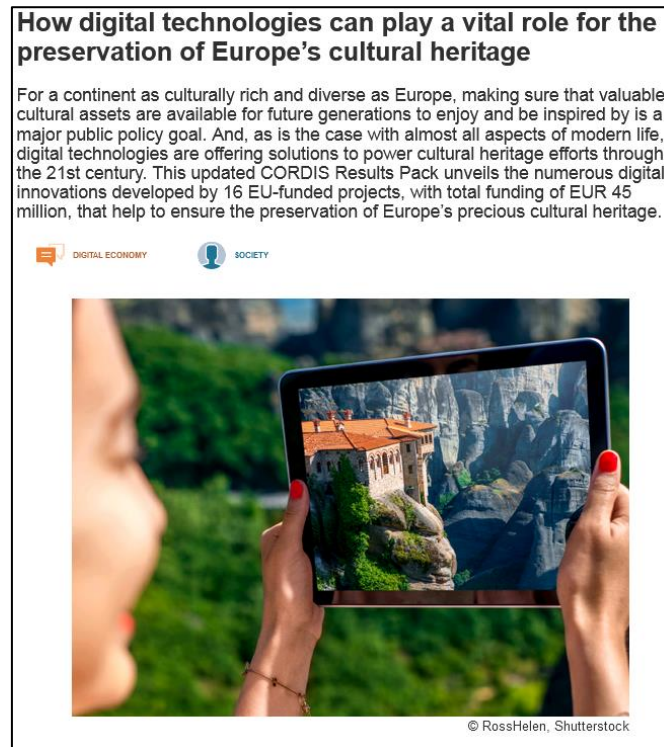


This screenshot from January 2022 shows the current state of the NewsEye Zenodo page.

3.1.2 OpenAire

The [NewsEye OpenAire page](#) has been synced to the project outputs since its inception in 2018. OpenAIRE is the European Commission's open science infrastructure, for open scholarly and scientific communication. The project is listed here with its consortium members and funding/public information in CORDIS, as well as the same research publications and datasets in Zenodo since the two are synced. It helps us to disseminate our information on the project, as well as the results and project's public reports. It essentially acts as a multiplier page and syncs up our results to the EU-wide portal. In

February 2021, CORDIS also chose NewsEye to feature in one of its [spotlight articles](#) on Horizon 2020 projects, a screenshot of which has been included below.

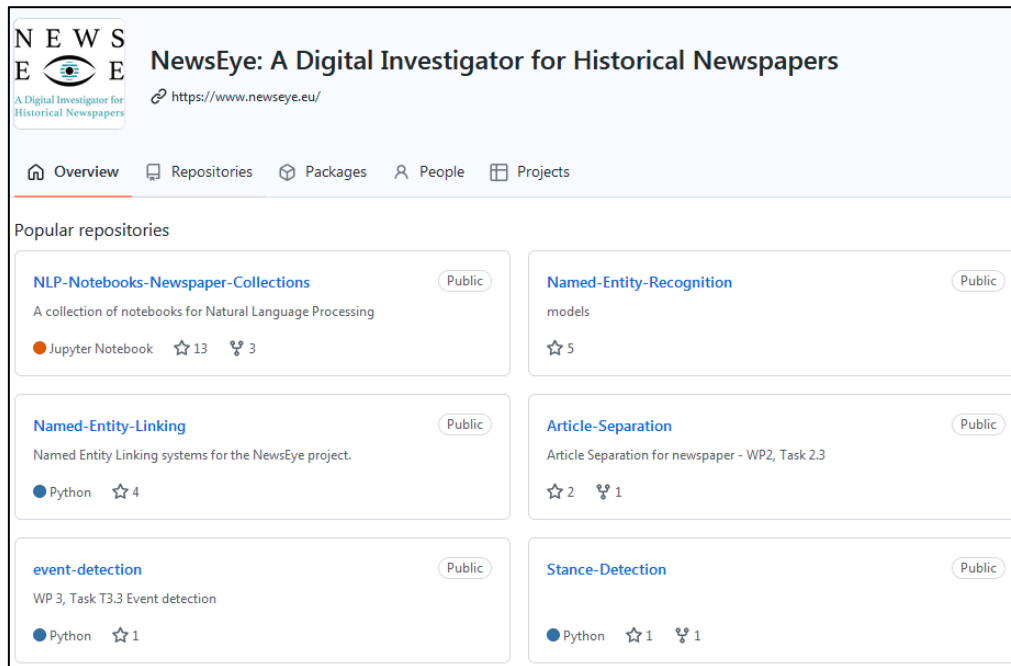


3.1.3 Git Repositories - GitHub

A [GitHub repository](#) was created for documenting the development of the projects' tools in November 2019. The source code, data sets and training models for tools developed in NewsEye are also listed automatically on the project website to provide easy access and referencing to the project's outputs and to continue to develop a core community of users and developers. There are currently 17 repositories online with direct access to the source codes for various project outputs:

1. [Multilingual-Topic-Model](#)
2. [Training-Topic-Models](#)
3. [Multilingual Dynamic Topic Model](#)
4. [Diachronic-Embeddings](#)
5. [Named Entity Recognition](#)
6. [Cross Lingual Linking](#)
7. [Stance-Detection](#)
8. [Article Separation](#)
9. [NLP Notebooks for Newspaper Collections](#)
10. [Transkribus](#)
11. [Work Package 5 Investigator](#)
12. [Work Package 5 Reporter](#)
13. [Work Package 5 Explainer](#)
14. [Disappearing Discourses](#)
15. [Named Entity Linking](#)
16. [Event Detection](#)
17. [NewsEye Demonstrator](#)

It should be noted that **nearly 30 percent** of the total number of repositories was uploaded during the extension period, demonstrating how this time contributed to a greater production and wider dissemination of project outcomes.



The NewsEye GitHub page serves as a central access point for publicly-available data created by the project.

3.2 Scientific Publications

This section summarises the project's research publications during the extension period, by type and status. The full list of all publications and research outputs produced in the context of the project is consultable in Appendix B.

❖ Book chapters

The extension period witnessed the publication of the project's first book chapters, of which there were three:

1. Marjanen, J. (2021). [National Sentiment: Nation Building and Emotional Language in Nineteenth-Century Finland](#). In V. Kivimäki, S. Suodenjoki, & T. Vahtikari (Eds.), *Lived Nation as the History of Experiences and Emotions in Finland, 1800-2000* (pp. 61–83). Springer International Publishing. https://doi.org/10.1007/978-3-030-69882-9_3
2. Oberbichler S. & Pfanzelter E., [Tracing Discourses in Digital Newspaper Collections: A Contribution to Digital Hermeneutics while Investigating 'Return Migration' in Historical Press Coverage](#), in: *Digitised Newspapers – A New Eldorado for Historians? Tools, Methodology, Epistemology, and the Changing Practices of Writing History in the Context of Historical Newspapers Mass Digitization*, De Gruyter Oldenbourg, 2022.
3. Gasteiner M. & Enderlin A., [Crossing or Intersecting the Emperor's Desk with digitized Newspaper Data: Entity-source-networks in the late Habsburg Empire](#), in: *Digitised Newspapers – A New Eldorado for Historians? Tools, Methodology, Epistemology, and the Changing Practices of Writing History in the Context of Historical Newspapers Mass Digitization*, De Gruyter Oldenbourg, 2022.

❖ Journal articles

A total of 10 journal articles associated with the project were published during its duration, of which half were added to Zenodo during the extension period:

1. Oberbichler, S., Boroş, E., Doucet, A., Marjanen, J., Pfanzerter, E., Rautiainen, J., Toivonen, H., & Tolonen, M. (2022). Integrated interdisciplinary workflows for research on historical newspapers: Perspectives from humanities scholars, computer scientists, and librarians. *Journal of the Association for Information Science and Technology*, 73(2), 225–239. <https://doi.org/10.1002/asi.24565>
2. Hengchen, S., Ros, R., Marjanen, J., & Tolonen, M. (2021). A data-driven approach to studying changing vocabularies in historical newspaper collections. *Digital Scholarship in the Humanities*, 36(Supplement_2), ii109–ii126. <https://doi.org/10.1093/llc/fgab032>
3. Linhares Pontes, E., Cabrera-Diego, L. A., Moreno, J. G., Boros, E., Hamdi, A., Doucet, A., Sidere, N., & Coustaty, M. (2021). MELHISSA: A multilingual entity linking architecture for historical press articles. *International Journal on Digital Libraries*. <https://doi.org/10.1007/s00799-021-00319-6>
4. Oberbichler, S., & Pfanzerter, E. (n.d.). Topic-specific corpus building: A step towards a representative newspaper corpus on the topic of return migration using text mining methods. *Journal of Digital History Journal*, jdh001. <https://journalofdigitalhistory.org/en/article/4yxHGiqXYRbX>
5. Oberbichler, S., Hechl, S., & Pfanzerter, E. (2020). [Als eine andere Epidemie die Welt in Atem hielt: Die Spanische Grippe 1918/19 in der österreichischen Presse](#). *Tiroler Chronist - Fachblatt von Und Für Chronisten in Nord-, Süd- Und Osttirol*, 154, 15–22.

❖ Conference papers

A total of 59 conference papers related to the project were published during its duration. 19 of these papers (32%) were uploaded to Zenodo during the extension period, including:

1. Linhares Pontes, E., Cabrera-Diego, L. A., Moreno, J. G., Boros, E., Hamdi, A., Sidère, N., Coustaty, M., & Doucet, A. (2020). Entity Linking for Historical Documents: Challenges and Solutions. In E. Ishita, N. L. S. Pang, & L. Zhou (Eds.), *Proceedings of the 22nd International Conference on Asia-Pacific Digital Libraries (ICADL 2020)* (Vol. 12504, pp. 215–231). Springer International Publishing. https://doi.org/10.1007/978-3-030-64452-9_19
2. Nguyen, N. K., Boroş, E., Lejeune, G., & Doucet, A. (2020). Impact Analysis of Document Digitization on Event Extraction. *Proceedings of the 4th Workshop on Natural Language for Artificial Intelligence (NL4AI 2020)*, 2735, 17–28. <https://doi.org/10.5281/ZENODO.4734268>
3. Nguyen, N. K., Boros, E., Lejeune, G., Doucet, A., & Delahaut, T. (2021). L3i_LBPAM at the FinSim-2 task: Learning Financial Semantic Similarities with Siamese Transformers. *Companion Proceedings of the Web Conference 2021*, 302–306. <https://doi.org/10.1145/3442442.3451384>
4. Hamdi, A., Jean-Caurant, A., Sidère, N., Coustaty, M., & Doucet, A. (2020). Assessing and Minimizing the Impact of OCR Quality on Named Entity Recognition. In M. Hall, T. Merčun, T. Risse, & F. Duchateau (Eds.), *Proceedings of the 24th International Conference on Theory and Practice of Digital Libraries, TPD L 2020* (Vol. 12246, pp. 87–101). Springer International Publishing. https://doi.org/10.1007/978-3-030-54956-5_7
5. Boros, E., Hamdi, A., Pontes, E. L., Cabrera-Diego, L. A., Moreno, J. G., Sidère, N., & Doucet, A. (2021, April 15). *Atténuer les erreurs de numérisation dans la reconnaissance d'entités nommées pour les documents historiques*. Conférence en Recherche d'Informations et Applications - CORIA 2021, French Information Retrieval Conference, Grenoble, France. https://doi.org/10.24348/CORIA.2021.MINI_24

6. Mutuvi, S., Boros, E., Doucet, A., Lejeune, G., Jatowt, A., & Odeo, M. (2021a, April 15). *Étude comparative de méthodes de classification multilingue appliquées à l'épidémiologie*. COnférence en Recherche d'Informations et Applications - CORIA 2021, French Information Retrieval Conference, Grenoble, France. <https://doi.org/10.5281/ZENODO.4734471>
7. Marjanen, Jani, Zosa, Elaine, Hengchen, Simon, Pivovarova, Lidia, & Tolonen, Mikko. (2021). Topic modelling discourse dynamics in historical newspapers. *Proceedings of the 5th Conference Digital Humanities in the Nordic Countries (DHN 2020)*, 63–77. <https://doi.org/10.5281/ZENODO.5648114>
8. Kutuzov, A., & Pivovarova, L. (2021). Three-part diachronic semantic change dataset for Russian. *Proceedings of the 2nd International Workshop on Computational Approaches to Historical Language Change 2021*, 7–13. <https://doi.org/10.18653/v1/2021.lchange-1.2>
9. Hamdi, A., Carel, E., Joseph, A., Coustaty, M., & Doucet, A. (2021). Information Extraction from Invoices. In J. Lladós, D. Lopresti, & S. Uchida (Eds.), *Proceedings of the 16th International Conference on Document Analysis and Recognition (ICDAR 2021)* (Vol. 12822, pp. 699–714). Springer International Publishing. https://doi.org/10.1007/978-3-030-86331-9_45
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11. Gutehrle, Nicolas, Harlamov, Oleg, Karimi, Farimah, Wei, Haoyu, Jean-Caurant, Axel, & Pivovarova, Lidia. (2021, September 30). SpaceWars: A Web Interface for Exploring the Spatio-temporal Dimensions of WWI Newspaper Reporting. *Proceedings of the 6th International Workshop on Computational History (HistoInformatics 2021)*. 6th International Workshop on Computational History, Aachen, Germany. <https://doi.org/10.5281/ZENODO.5566462>
12. Boros, E., Moreno, J. G., & Doucet, A. (2021a, December 14). Exploring Entities in Event Detection as Question Answering. *Proceedings of the 44th European Conference on Information Retrieval*. 44th European Conference on Information Retrieval, Stavanger, Norway.
13. Mutuvi, S., Boros, E., Doucet, A., Lejeune, G., Jatowt, A., & Odeo, M. (2021b). Multilingual Epidemic Event Extraction. In H.-R. Ke, C. S. Lee, & K. Sugiyama (Eds.), *Proceedings of the 23rd International Conference on Asian Digital Libraries* (Vol. 13133, pp. 139–156). Springer International Publishing. https://doi.org/10.1007/978-3-030-91669-5_12
14. Mutuvi, S., Boros, E., Doucet, A., Lejeune, G., Jatowt, A., & Odeo, M. (2021c). Token-Level Multilingual Epidemic Dataset for Event Extraction. In G. Berget, M. M. Hall, D. Brenn, & S. Kumpulainen (Eds.), *Proceedings of the 25th International Conference on Theory and Practice of Digital Libraries* (Vol. 12866, pp. 55–59). Springer International Publishing. https://doi.org/10.1007/978-3-030-86324-1_6
15. Duong, Quan, Pivovarova, Lidia, & Zosa, Elaine. (2021). Benchmarks for Unsupervised Discourse Change Detection. *Proceedings of the 6th International Workshop on Computational History (HistoInformatics 2021)*, 2981. <https://doi.org/10.5281/ZENODO.5548067>
16. Pivovarova, Lidia, & Zosa, Elaine. (2022, January 25). Visual Topic Modelling for NewsImage Task at MediaEval 2021. *Working Notes Proceedings of the MediaEval 2021 Workshop*. MediaEval 2021 Workshop. <https://doi.org/10.5281/ZENODO.5900719>
17. Zosa, Elaine, Mutuvi, Stephen, Granroth-Wilding, Mark, & Doucet, Antoine. (2022, January 25). Evaluating the Robustness of Embedding-Based Topic Models to OCR Noise. *Proceedings of the 23rd International Conference on Asian Digital Libraries 2021*. 23rd International Conference on Asian Digital Libraries 2021, Online. <https://doi.org/10.5281/ZENODO.5900730>
18. Bernard, Guillaume, Suire, Cyrille, Faucher, Cyril, & Doucet, Antoine. (2022b). Event Related Document Retrieval with Multilingual Real World Event Representation. *Proceedings of the 20th International Semantic Web Conference*, 2980. <https://doi.org/10.5281/ZENODO.5900742>

19. Bernard, Guillaume, Suire, Cyrille, Faucher, Cyril, & Doucet, Antoine. (2022a). A Comprehensive Extraction of Relevant Real-World-Event Qualifiers for Semantic Search Engines. *Linking Theory and Practice of Digital Libraries*, 12866, 153–164. <https://doi.org/10.5281/ZENODO.5900757>

❖ Datasets

A total of 17 datasets were published on the project's Zenodo page during the project's duration, of which 5 (29%) were uploaded during the extension period. The publication of training datasets concerning Article Separation reflected the continuing work of the University of Rostock concerning this issue.

1. Bernard, G., Doucet, A., Faucher, C., & Suire, C. (2021). *Event representation on Wikidata and Wikipedia with, and without the analysis of vernacular languages* (Version 1) [Data set]. Zenodo. <https://doi.org/10.5281/ZENODO.4733507>
2. Michael, Johannes, Weidemann, Max, Laasch, Bastian, & Labahn, Roger. (2020). *Dataset of ICPR 2020 Competition on Text Block Segmentation on a NewsEye Dataset* (1.0) [Data set]. Zenodo. <https://doi.org/10.5281/ZENODO.4943581>
3. Muehlberger, Guenter, & Hackl, Guenter. (2021c). *NewsEye / READ AS training dataset from Austrian Newspapers (19th, early 20th C.)* (Version 2) [Data set]. Zenodo. <https://doi.org/10.5281/ZENODO.4693412>
4. Muehlberger, Guenter, & Hackl, Guenter. (2021d). *NewsEye / READ AS training dataset from French Newspapers (19th, early 20th C.)* (Version 3) [Data set]. Zenodo. <https://doi.org/10.5281/ZENODO.4600635>
5. Muehlberger, Günter, & Hackl, Günter. (2021). *NewsEye / READ AS training dataset from Finnish Newspapers (19th C.)* (Version 2) [Data set]. Zenodo. <https://doi.org/10.5281/ZENODO.4600745>

❖ Others

There were no additional theses related to the project which were published during the extension period. However, [The Book of Abstracts for What's Past is Prologue: The NewsEye International Conference](#) was published on Zenodo in August 2021.

❖ Upcoming publications

Several other research papers are under evaluation, some of which are already conditionally accepted or to appear, and we expect to add several more scientific publications to the list of NewsEye results in the near future.

3.3 Branding - Printable Assets

❖ Leaflets

The project leaflets which were created at the beginning of 2021 highlight information regarding each case study (on the themes of [Migration](#), [Gender](#), [Nationalism](#) and [Media and Journalism](#)) and each key developed tool of the project ([Article Separation](#), [Automated Text Recognition](#), [Semantic Text Enrichment](#) and the [NewsEye Demonstrator](#)). The goal of these assets was to summarise and visually portray the project's key outputs and research areas for the computer science and digital humanities target audience. There are 4 leaflets for the Computer Science tools and 4 leaflets for the Digital Humanities case studies which give a visual overview of how the workflow components work and what they do. The leaflets were created in each of the 4 languages of the project in order to broaden our reach and to illustrate how multilingual the project is, as well as offering datasets and comparative tools in several languages. Initially, the leaflets were intended to be also in a printed format, but due to the

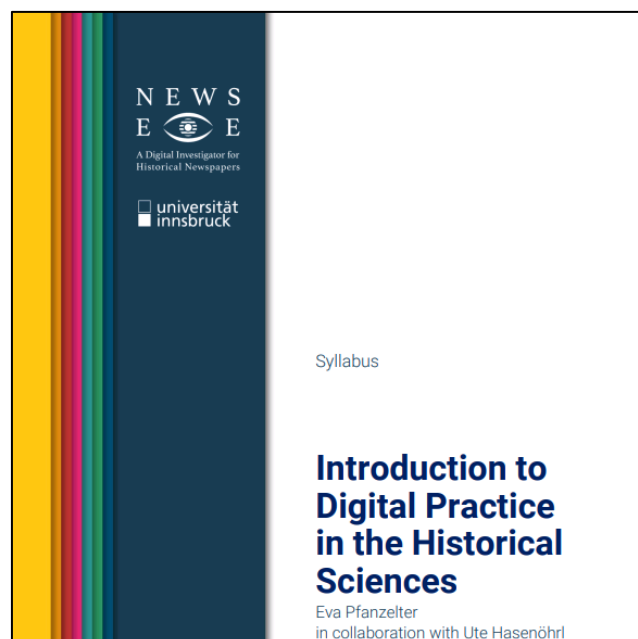
severe reduction of physical meetings and events, we have mainly created these assets [to be read and downloaded](#) online and printed at the viewer's discretion at home, work or school. The English-language version of these leaflets can be consulted in Section A.4 of this report.



The above graphic was included in every leaflet, adding visual cohesion to the collection.

❖ Education Materials

[Educational materials](#) were created by the DH group led by the University of Innsbruck, including lesson plans, worksheets and templates for collecting articles with a focus on schools, universities, and lay historians as the main target audiences. They included lesson plans focusing on migration, nationalism, and gender (taking up the topics of the case studies). Newspaper articles were collected on these subjects, along with general material for teachers and pupils. Two courses on the topics of [Introduction to Digital Practice in the Historical Sciences](#) and [Digitized Newspapers in Humanities Research](#) were conducted in Innsbruck and Helsinki, with shared syllabi for university students as a tester in 2020.



As demonstrated above, this booklet employed the same colour scheme as the leaflets.

These materials were also integrated into the project website by the University of Innsbruck who created these assets, with the support of the Austrian National Library. These exist in digital format and have high resolution versions available for download. In addition, in each of the partner countries a third party will further distribute the assets in their country's language. For a more detailed overview, see public Deliverable 6.13, which reports on the full uses of these outputs.

Furthermore, the national libraries involved in the project have made strides toward sharing the educational materials to wider audiences. The National Library of France added the French-language version of these materials to the [Enseignants et communauté éducative](#) (Teachers and Educational Community) page of the institution's website, and will also feature it in the next version of [Classes](#), its education website, to be launched over 2022. Furthermore, the National Library of Finland added a [news item to their website](#) sharing the news of the material's online publication. The Austrian National Library also plans to share the materials during the coming months.

Educational Material Based on Historical Newspapers
NEWS | 11.05.2021
The NewsEye Project has produced educational material based on newspapers and also information for using newspapers in education. The educational material has been created according to the Austrian, French and Finnish curricula. It is available at: <https://www.newseye.eu/resources/educational-material/>
Material for the university level related to Digi.kansalliskirjasto.fi: <https://www.newseye.eu/index.php?id=162>
A video on text recognition: <https://www.youtube.com/watch?v=pd1gJoz2lYU&t=7s>



A screenshot of the aforementioned news item on the National Library of Finland's website

3.4 Online presence and social media

3.4.1 Blog posts and articles

The extension period saw a large increase in the frequency of blog post publications, with 14 new articles out of 37 total across the project's lifespan. In addition to articles on various subjects, three article series were planned and carried out during the last nine months of the project: a series on NewsEye events, a series of interviews with experts who shared their experiences related to themes which were relevant to the NewsEye project and a series which featured wrap-up articles from project partners. Each article was shared on the NewsEye Twitter feed, further broadening the impact of each event.

The first series focused on events which were organised by NewsEye, which will be detailed in Section 4 of this report. These included:

- [The NewsEye International Conference](#)
- [A seminar organised by the National Library of France](#)
- [A hackathon organised by the University of Helsinki](#)
- [A User Workshop organised by the National Library of Austria in April 2021](#)

The second series written during the project extension focused on interviews with various experts, which were carried out via Google docs. The [first article](#), which included insights from Lise Jaillant of the AEOLIAN Network, emphasised the interdisciplinary and international aspects of the aforementioned project in close comparison with NewsEye. The [second article](#) featured the work of Ben Lee, who was also a contributor to the NewsEye International Conference, and his work on digitised historical newspapers. Finally, [the third article](#) featured Maud Ehrmann, who worked on Impresso, a project which

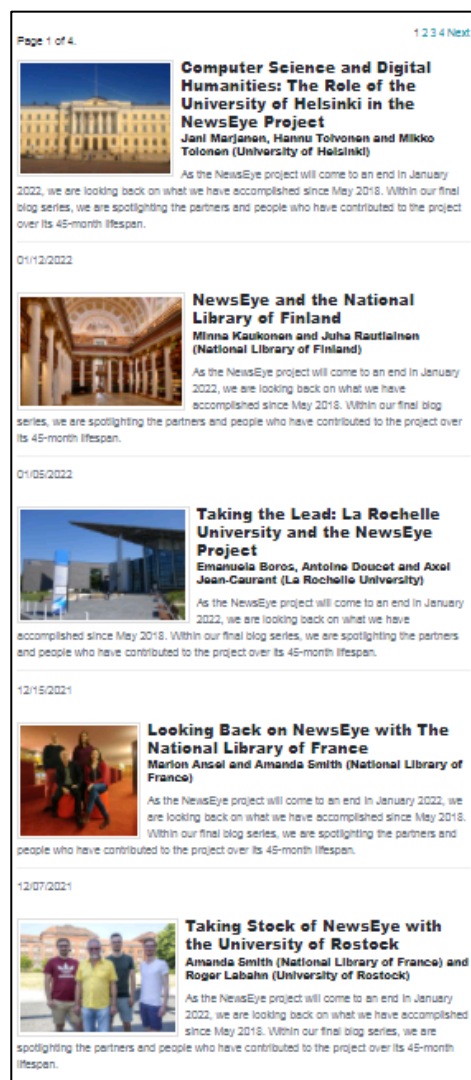
focused on text mining two hundred years of digitised historical newspapers. Each of these articles was shared with both NewsEye Twitter followers and the social media networks of these individuals and the organisations for which they have worked.

The third and final series focused on spotlighting each project partner's contributions to the project. At the time of writing, five articles have been published:

- [Taking Stock of NewsEye with the University of Rostock](#)
- [Looking Back on NewsEye with The National Library of France](#)
- [Taking the Lead: La Rochelle University and the NewsEye Project](#)
- [NewsEye and the National Library of Finland](#)
- [Computer Science and Digital Humanities: The Role of the University of Helsinki in the NewsEye Project](#)

Further contributions from the Austrian National Library, the University of Innsbruck, the University of Montpellier and the University of Vienna are expected to be published.

The project was also highlighted in an article in the [January – March 2022 edition of *Chroniques*](#), the magazine of the National Library of France, in the context of a dossier concentrated on the application of Artificial Intelligence in libraries. This publication can be readily accessed in a digital form via the library's website. 30,000 issues were also printed and sent to subscribers, as well as being distributed in all locations of BNF.



As demonstrated above, each blog article in the last series has been accompanied by either a picture of team members or of the corresponding institution.

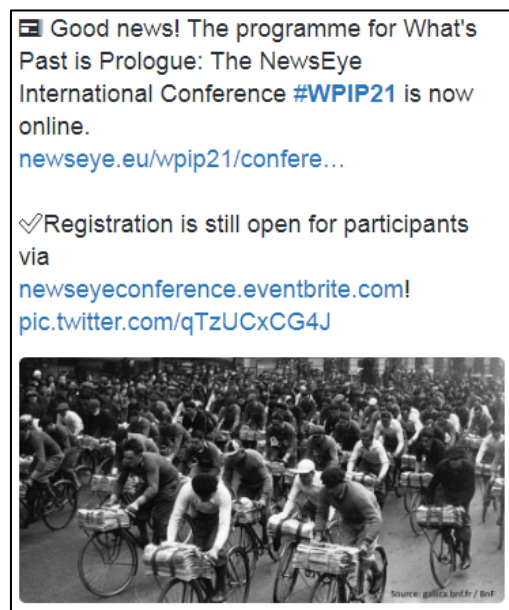
3.4.2 Twitter

Twitter is one of the social media channels used by the project and was set up in May 2018 at the very beginning of the project. Most content revolves around the news of the project members whereabouts for conferences (or if online, their presentation topics), new blog posts, podcast episodes, or news of accepted and published papers and datasets. The account served as an important tool for sharing news about the project, and it was consistently used to share information regarding the project, especially in the context of events organised by the consortium.

The NewsEye Twitter page stands at 1,887 followers and counting (as of 24 January 2021). It remains the most popular, engaged with, and followed social media channels of the project; our results and achievements are some of the most engaged-with Tweets. Since our follower count has grown, this is naturally a reason the engagements have also increased so much but it is also in line with increased content, such as our blog series, and an increased usage of images in posts.



A screenshot of the NewsEye EU Twitter page

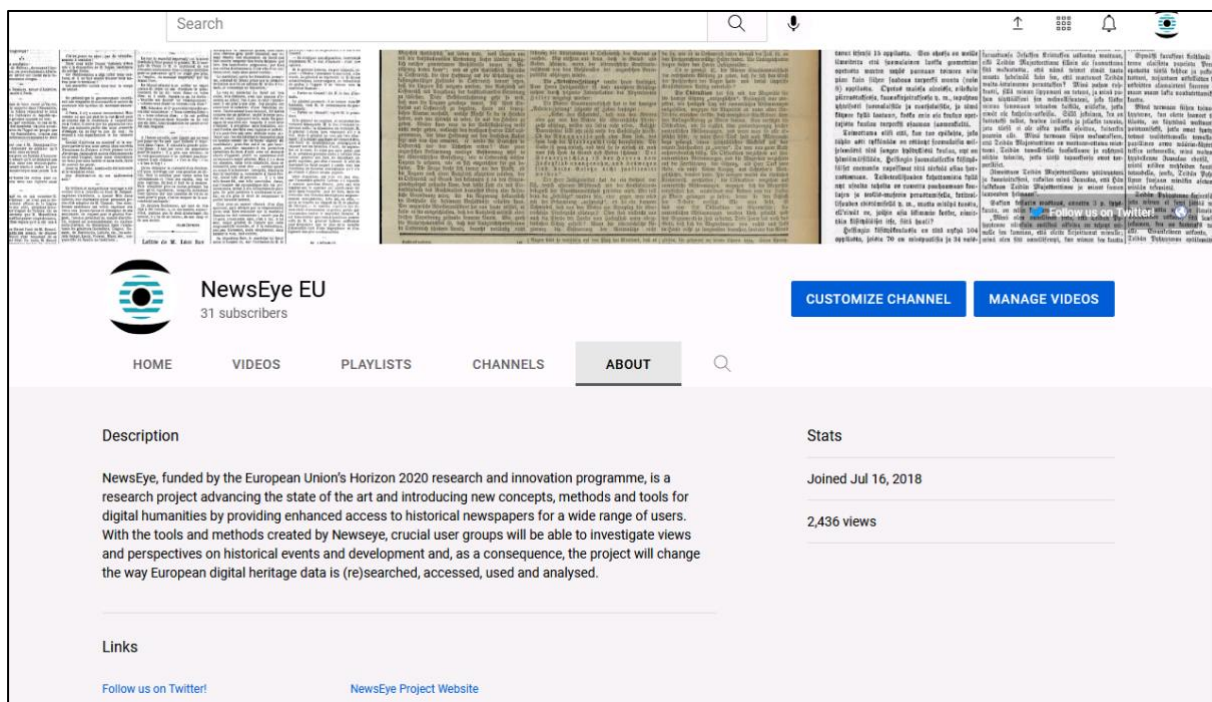


The [most consulted tweet](#) of the project's duration (19,336 impressions) announced the publication of the International Conference's programme on the project's website in February 2021. As detailed in Section 4.2, the tweets regarding the conference were the most successful in terms of outreach.

3.4.3 Videos about the Project and YouTube Page

The [NewsEye YouTube page](#) was established and set up during Year 1. The content was not populated until Year 2, following an informed decision and strategy to wait for video content until the project had substantial updates and suitable visual content to share. The approach on YouTube was to have both content from the project itself and also have NewsEye featured in third party vlogs or videos in order to increase our reach and also help us to have more visibility within the various target groups.

Therefore, we established the main videos on the YouTube landing page in Years 2 and 3, for the project (which is embedded directly into the landing page of the website), as well as playlists of videos where NewsEye and/or members from the project are featured. In Year 3 we produced 10 videos in total: 6 in English, 3 in German and 1 in French. They vary between screen-casts of how to use the Austrian National Library's digital newspaper collection: (ANNO) updates on the Demonstrator functionalities and how-to/introductory videos on Digital Humanities research, some of which were created specifically for the NewsEye User Workshop in April 2021.



A screenshot of the NewsEye EU YouTube page

In addition, the project has also produced video content from online conference papers. Two other videos were not uploaded from the NewsEye account but are strongly related to the project. One of them is the replay of the French-speaking NewsEye event organised by the BNF on 15 March 2021; another is of an information event on European projects, to which the NewsEye project coordinator participated.

9 videos were added to the project's YouTube page during the extension period, and all the YouTube videos and view information created during the NewsEye project to date can be found on our YouTube Page:

- [Use and reuse of digital historical newspapers: the NewsEye project in practice](#)
- [NewsEye International Conference: Introduction, Keynote Speaker Presentations & Discussion](#)
- [NewsEye International Conference: Working with Classified News Items and Information Extraction](#)
- [NewsEye International Conference: Digitised Newspapers & Machine Learning](#)
- [NewsEye International Conference: Paper Presentations from NewsEye Contributors & Colleagues](#)

- [NewsEye International Conference: Digitised Historical Material - Improving Data Quality](#)
- [NewsEye International Conference: Challenges and Perspectives in Digital Research](#)
- [NewsEye: A Digital Investigator for Historical Newspapers](#)
- [NewsEye : Un enquêteur numérique pour la presse ancienne](#)
- [NewsEye – neue Wege in der \(digitalen\) Zeitungsforschung \(English subtitles\)](#)
- [NewsEye - nuove prospettive nella ricerca sui giornali \(digitali\)](#)
- [Dig into historical Bulgarian Newspapers](#)

In the case of the recordings made during the NewsEye International Conference, which will be detailed later in this report, a playlist was also compiled in order to facilitate watching. A full list of the videos published by the project, or mentioning the project, can be found in Appendix D.

Two professionally-produced videos about the project were completed and disseminated during the extension period. The first of these was produced by Cédric Rochereul of La Rochelle University and featured team members Antoine Doucet (ULR), Axel Jean-Caurant (ULR), Jean-Philippe Moreux (BNF), Nejma Omari (UPVM) and Amanda Smith (BNF) sharing their experiences of working on the project.

Furthermore, NewsEye was featured in three external videos in German, Italian and Bulgarian. First, a short film about research with digitised historical documents was produced and broadcast on Rai Südtirol/Rai Alto Adige, the bilingual (German and Italian) television station of South Tyrol. It was shown in German on 28 December 2021, with additional airings in Italian already scheduled on 6 February, 12 and 20 March 2022. [This video](#), which featured NewsEye team members from the University of Innsbruck, Günter Mühlberger, Sarah Oberbichler and Eva Pfanzelter was uploaded to the project's YouTube account on 27 January 2022 with English subtitles.

In addition, Antoine Doucet was invited to testify in a [video of Europeana](#), presenting a historical newspaper digitisation effort in Bulgaria.



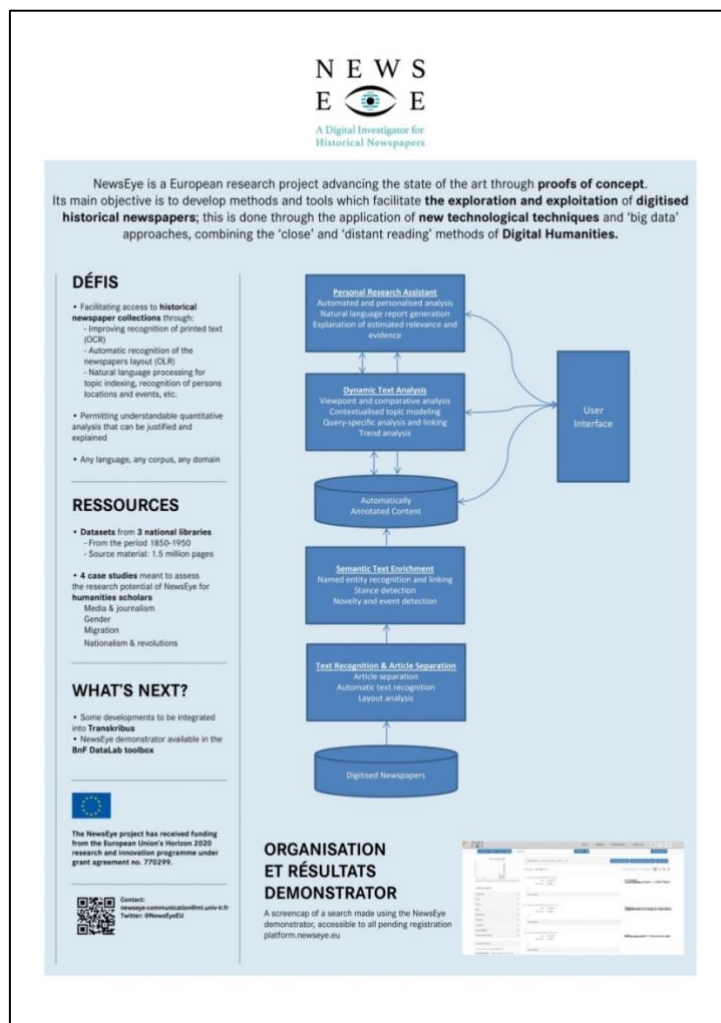
A screenshot of the ULR-produced video shows the project name projected over the soaring towers of the National Library of France located in Paris's 13th district.

4 Events

NewsEye project members have been very active and present at conferences and external events throughout the project duration, often presenting papers or posters (uploaded once accepted onto OpenAire and Zenodo). Since the pandemic, in many cases physical meetings were naturally changed to online. Both events organised by NewsEye, as well as attendance to external events, conferences, seminars, workshops and competitions, have been opportunities for us to disseminate the project's aims and outcomes.

4.1 NewsEye Attendance at External Events

Since the project started, there have been several reporting mechanisms in place to follow up with interested stakeholders when networking at such events, which have been useful for further exploitation of the project results. In total, 170 events have been reported to take place either during the project's duration or shortly thereafter. Over the most recent reporting period, NewsEye members have attended and presented at 39 events. This is a testament to the amount and quality of the work that is produced by the project members of various institutions who are invited for conferences to present papers, deliver keynotes or lead workshops or seminar talks. The event tracker can be found in the Appendix F of this report.



This poster was created in the context of the Fantastic Futures Conference, which was held at BNF in December 2021. It was printed in an A3 format and was presented alongside other projects related to the theme of Artificial Intelligence.

4.2 Events Organised by NewsEye

No fewer than eight important NewsEye events took place in 2021, six of which occurred in the first four months. It is worth noting that two of these were not initially scheduled in the project's Description of the Action.

❖ ICPR text block segmentation competition

The University of Rostock presented the ICPR text block segmentation competition in January 2021. This was a standard data science competition, which introduced new ways of analysing the structure of historical newspaper pages and was created by building upon previous competitions such as the ICDAR Competition on recognition of documents with complex layouts. The main difference being that this event worked on baseline level instead on pixel level, also commenting on the need for a new evaluation measure by introducing a new measure based on a Baseline Detection evaluation scheme. Working on baseline level directly addresses the application scenario, where for a given image the contained text should be extracted in blocks for further investigations. A [related paper](#) was also published on the competition (listed in the publications of NewsEye), which relied on a [dataset](#) created during the course of the project.

❖ What's Past is Prologue: Towards a future of interdisciplinary collaboration between cultural heritage, digital humanities, computer & data science



Keynote Speaker Presentations and Roundtable Discussion

The NewsEye International Conference took place on 16-17 March 2021. Entitled 'What's Past is Prologue: Towards a future of interdisciplinary collaboration between cultural heritage, digital humanities, computer & data science', the conference aimed to both present and examine the wide range of DH methods and tools which impact the digital research landscape.

The organisation of this conference was truly a collaborative effort for the entire consortium. In the autumn of 2020, a scientific committee composed of at least one representative per partner was created. These included:

1. Marion Ansel (BNF)
2. Sally Chambers (Ghent Centre for Digital Humanities and KBR – the Royal Library of Belgium)
3. Antoine Doucet (ULR)
4. Tonica Hunter (ONB)
5. Max Kaiser (ONB)
6. Minna Kaukonen (UH-NLF)
7. Roger Labahn (UROS)
8. Amanda Smith (BNF)
9. Jean-Philippe Moreux (BNF)
10. Eva Pfanzelter (UIBK)
11. Cyrille Suire (ULR)
12. Hannu Toivonen (UH-CS)

Although the conference was originally expected to take place in person at the National Library of France, the committee quickly decided to hold it online due to the uncertainty surrounding the on-going pandemic. They then collectively wrote a Call for Papers, which was communicated both on the [NewsEye website](#) and Twitter account, and through the various professional networking channels of those working on the project.



The Call for Papers image

The committee decided to invite four keynote speakers who would represent the international and interdisciplinary focus of the conference:

1. Ann Dooms, Professor at the department of mathematics and data science of the Vrije Universiteit Brussel (Belgium)
2. Clemens Neudecker, research advisor to the directorate general Berlin State Library (Germany)
3. Ian Milligan, assistant professor, at the department of history of the University of Waterloo (Canada)
4. Gerben Zaagsma, assistant professor at the centre for contemporary and digital history (C2DH) at the University of Luxembourg

They decided to begin the conference with an afternoon session on 16 March in order to both accommodate the time difference for the Canada-based keynote speaker and to allow a greater international audience to connect to the conference.

Following an open call for submissions, twenty abstracts were accepted. Based on this, the committee developed an agenda composed of five themes, which were based on the content of the accepted abstracts:

1. Paper Presentations from NewsEye Contributors and Colleagues
2. Digitised Newspapers and Machine Learning: Extraction and Classification of News Items
3. Digitised Historical Newspapers: Working with Classified News Items and Information Extraction
4. Digitised Historical Material: Improving Data Quality
5. Challenges and Perspectives in Digital Research: Workflows, Pipelines, Digital Libraries and Digital Literacy

Once the agenda was finalised, registration was [opened on Eventbrite](#), and the committee created the objective of attracting an audience of 100 participants. This goal was largely surpassed, as the total number of registrations soared to 241 for day 1 and 266 for day 2; subsequently, the maximum number of attendees recorded at any point during the conference reached 222.

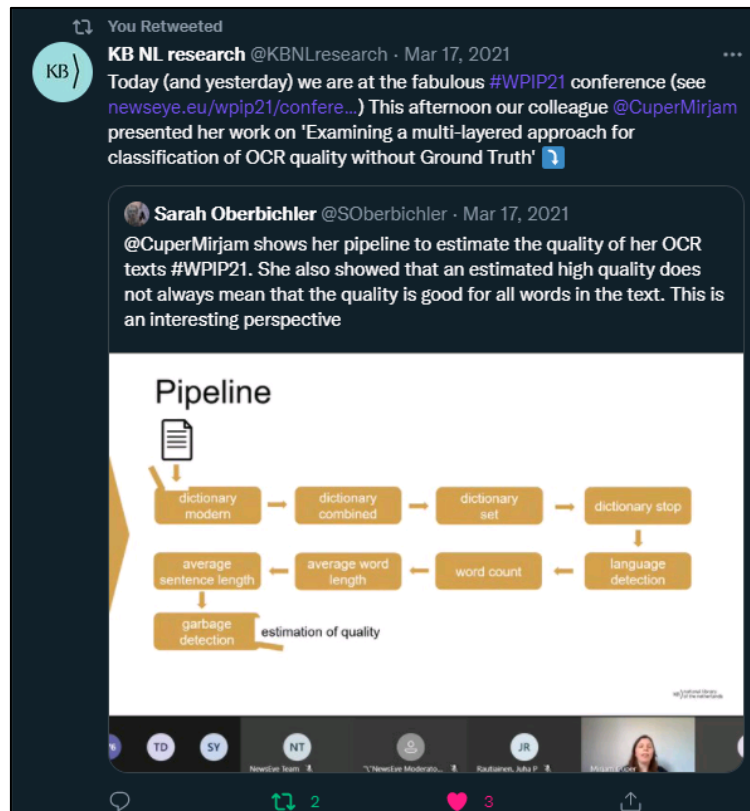


The Save the Date image

Over the course of 2 days, colleagues from both BNF and ONB coordinated the technical aspects required of an online conference, including moderating comments in the chat and ensuring that

presenters were able to share their PowerPoint presentations with attendees. In addition to the opening keynote speaker session which was chaired by Eva Pfanzelter (UIBK) and Antoine Doucet (ULR), the conference's five sessions were each chaired by NewsEye team members, and more, Sally Chambers (Ghent Centre for Digital Humanities and KBR – the National Library of Belgium), Sarah Oberbichler (UIBK), Jean-Philippe Moreux (BNF) and Juha Rautiainen (UH-NLF).

The conference was live-tweeted and several individuals and institutions which were involved in the conference shared information over the course of its duration. A hashtag (#WPIP21) was created in order to aggregate these responses and further communicate details regarding the conference.

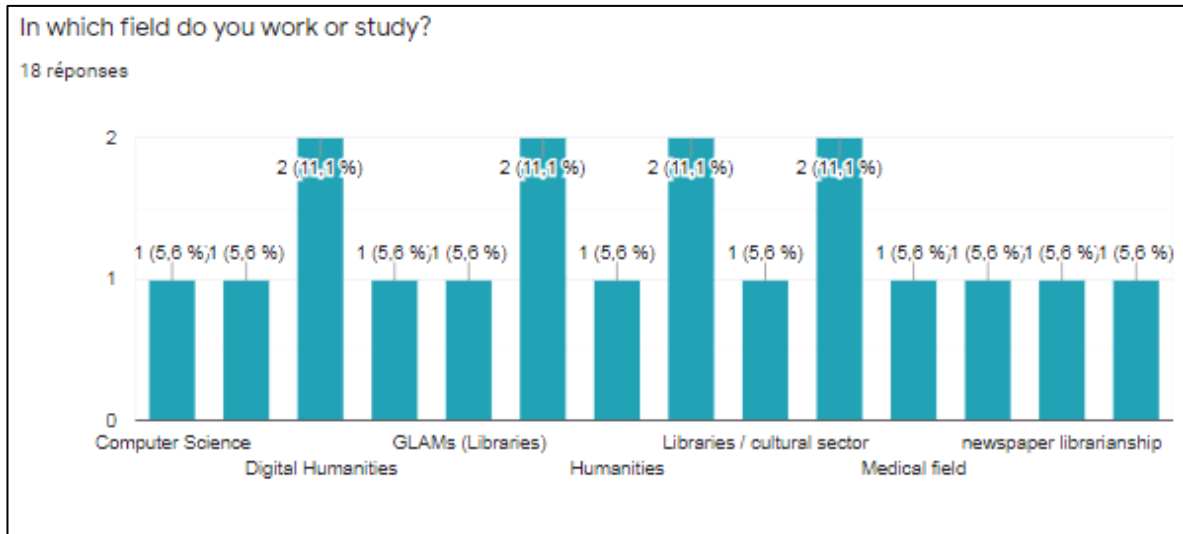


This retweet from the Research Department of the National Library of the Netherlands included information which was posted by NewsEye team member Sarah Oberbichler (UIBK).

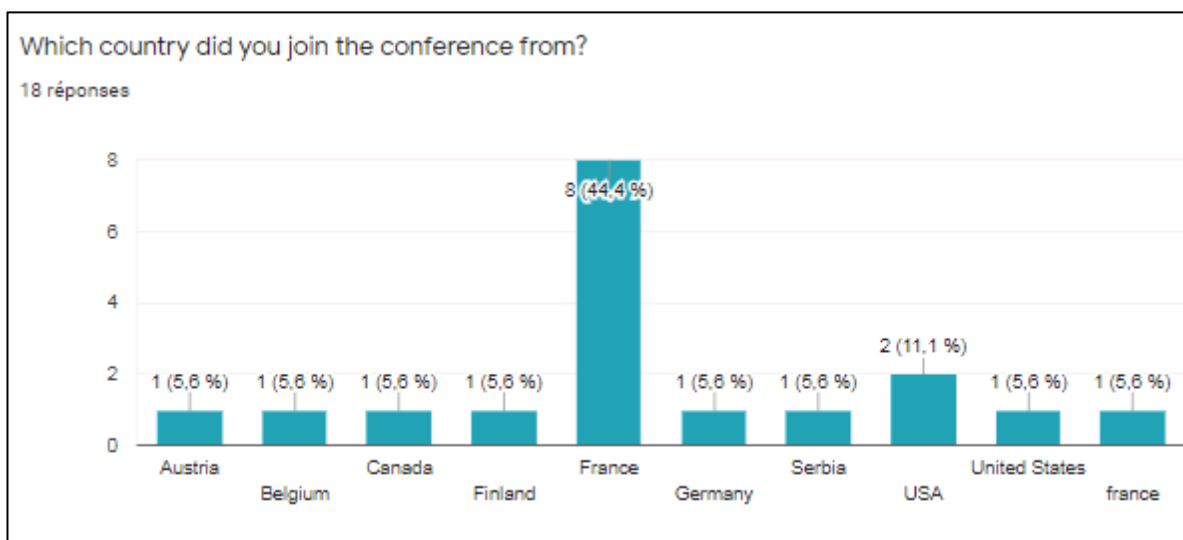
After the conference's conclusion, a survey was sent to participants via Eventbrite which contained the following questions:

1. In which field do you work or study?
2. Which country did you join the conference from?
3. Had you heard about the NewsEye project before hearing about the conference?
4. How did you hear about the NewsEye International Conference?
5. In your opinion, how was the online hosting of the conference on Microsoft Teams?
6. Overall, the quality of the presentations was...?
7. Which presentation(s) did you find especially interesting?
8. If you feel that specific themes were absent, which would have been of interest to you?
9. Would you be interested in further NewsEye events? If so, in what format?
10. If you have any other comments or suggestions, please note them below...

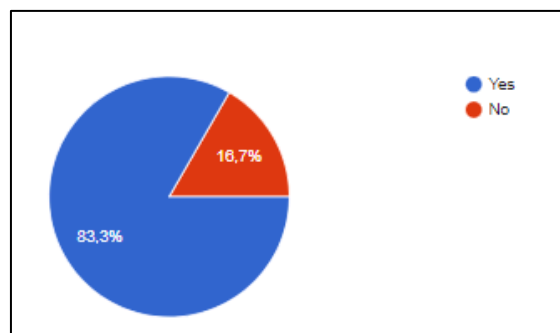
In total, only 18 participants replied to this survey. As demonstrated below, the responses to the first question were in line with what could be expected, considering the conference theme. In retrospect, this open-ended question should have proposed a restricted number of answers, as some of them were repetitive (i.e. Digital Humanities/Humanities and Libraries/Newspaper Librarianship).



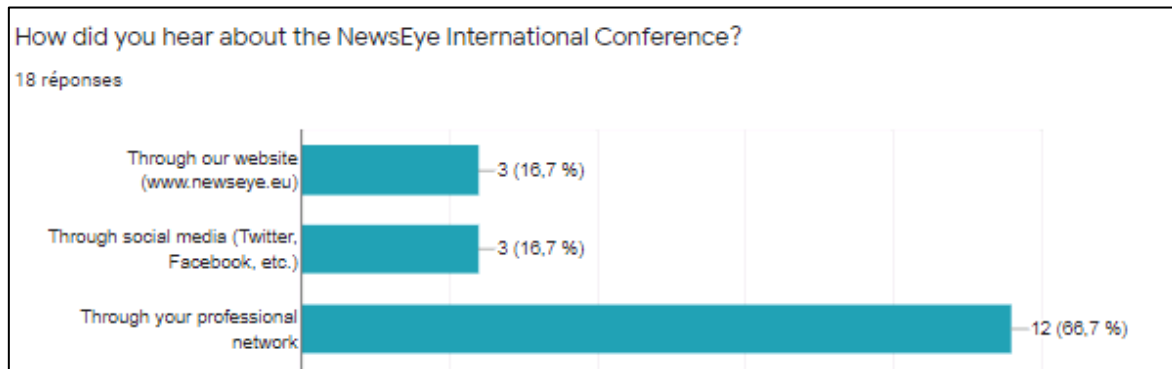
This also occurred in the case of the second question, for which 'France/france' and 'USA/United States' were not considered to be the same answers. It should be noted that half of the people who filled in the survey reported that they joined the conference from France.



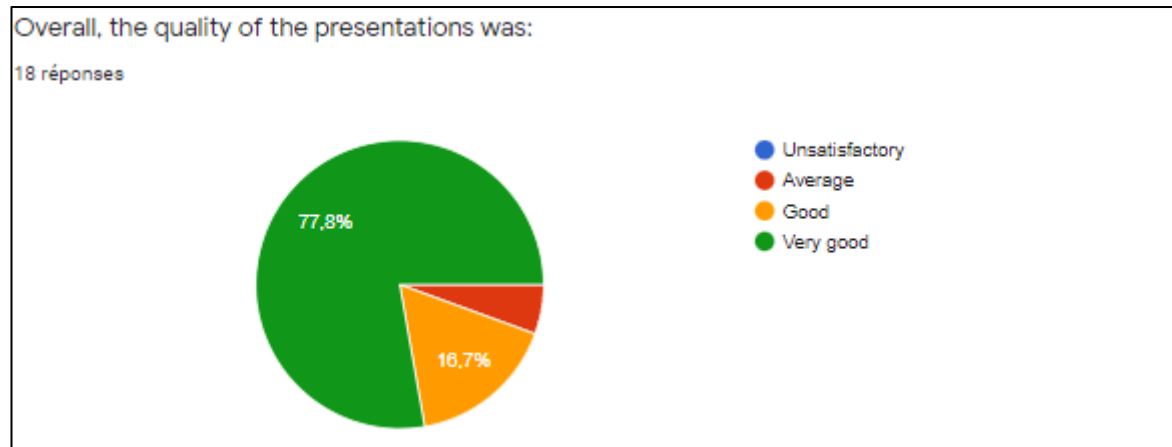
Furthermore, most people who responded to the survey reported having been familiar with the project before the conference.



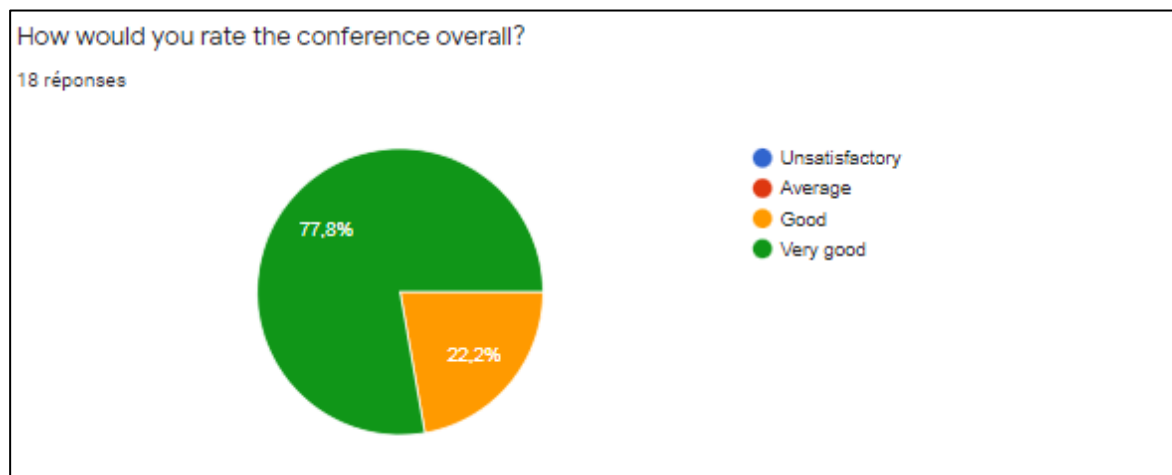
This statistic is consistent with the answers to the following question regarding how people heard that the conference was going to occur. According to the survey, one-third of attendees found out about the conference either through social media or through the NewsEye website, while two-thirds of attendees found out about the conference through their professional network.



Furthermore, every person who responded to the survey responded with either a 'good' or 'very good' opinion regarding the conference's hosting on Microsoft Teams, which confirms the success of its collaborative coordination. In terms of the conference's presentations, opinions regarding their quality were generally very favourable, as demonstrated below. The most widely-appreciated sessions amongst the survey takers were the keynote speaker session and the session on the theme of 'Challenges and Perspectives in Digital Research'.



Likewise, the opinions regarding the quality of the presentations were consistent with those regarding the conference overall, as demonstrated below.



Only two out of the eighteen responders made a suggestion regarding which themes which were absent would have been interesting to them, which further suggests that most were satisfied by the conference's scope. Furthermore, everyone who responded to the question regarding the conference's

format was satisfied with its online organisation. Ten people included their contact information in order to be included in further communication regarding potential future events, and all final comments were positive in nature, including:

The presentations I was able to attend were on the whole wonderful and I hope that the recordings of the sessions will be made available. Thank you to the organizers and speakers!

Terrific conference! Learned so much!

I was only able to attend a few talks, so I'm afraid I don't have much to add other than the 3 I attended were wonderful! Thank you!

After the conference's conclusion, two major efforts were carried out regarding dissemination: the editing and uploading of [conference footage](#) on the NewsEye EU YouTube page and the editing and publishing of a [Book of Abstracts](#) on the NewsEye Zenodo page. The conference footage was captured by ONB and edited by BNF; waivers were collected from each consenting presenter or moderator before this was added online. Both of these elements were further shared within a [blog post](#) which was published in July 2021.

❖ **À la recherche des femmes dans la presse ancienne numérisée (1850-1950) :
Journée de découverte du projet NewsEye**



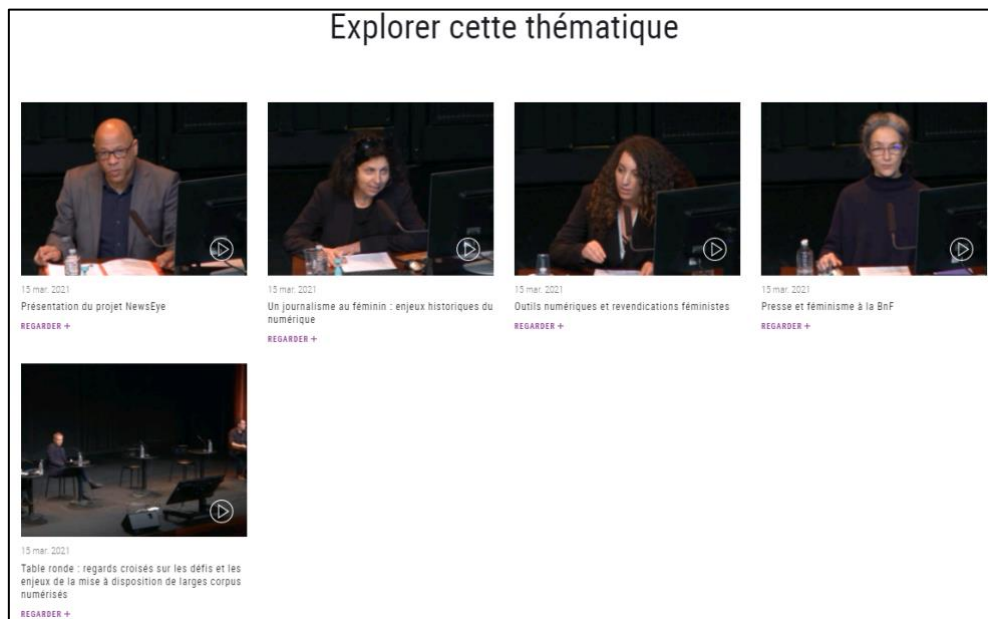
The Save the Date image for the seminar

Held on 15 March 2021, a French-speaking event was organised as a YouTube Live event hosted by the National Library of France (BNF) on the theme of The Representation of Women in Digitised Historical Newspapers. The title was chosen as a play on words with the famous book 'À la recherche du temps perdu' from Marcel Proust with the hope of drawing further attention to this event. This one-day seminar aimed to highlight various research interfaces linked to historical newspapers; these included [Gallica](#), [RetroNews](#) and, in particular, the [NewsEye Demonstrator](#). Through presentations concentrating on women's history and feminism, researchers were able to shed a light on the role that digital technology has in their scientific approaches. The seminar ended with an interdisciplinary round table which compared views on the challenges and issues of making these large digitised corpora available. The agenda contained the following components:

1. A presentation of the NewsEye project and its platform, featuring Antoine Doucet and Axel Jean-Caurant (ULR)
2. A session about women and journalism, featuring Marie-Ève Thérénty (UPVM) and the French professor Christine Bard (University of Angers)

3. A session about women and the press at the National Library of France, featuring Hélène Raymond and Étienne Manchette (BNF)
4. A session about digital tools and feminism, featuring the French professor Claire Blandin (Sorbonne Paris North University) and Nejma Omari (UPVM)
5. Presentations and a roundtable discussion of the theme of 'Challenges and stakes of making large digitised corpora available', featuring Cyrille Suire (ULR), Pierre-Carl Langlais (UPVM) and Jean-Philippe Moreux (BNF) and moderated by Emmanuelle Bermès (BNF).

As of 24 January 2022, the [webpage of the event](#) has been visited more than 1,650 times and the [YouTube link](#) for the event has been visited over 1,000 times. Furthermore, a [video collection \(caption below\) of the event](#) was created on the National Library of France's website, meaning that more people will be able to access the footage as it has been divided by theme. This collection is also tagged under the 'press' topic and as such is given as a suggestion to watch to visitors of the BNF video repository.



Users of the National Library of France's website can explore each session of the seminar.

❖ **The Helsinki Digital Humanities Hackathon 2021**

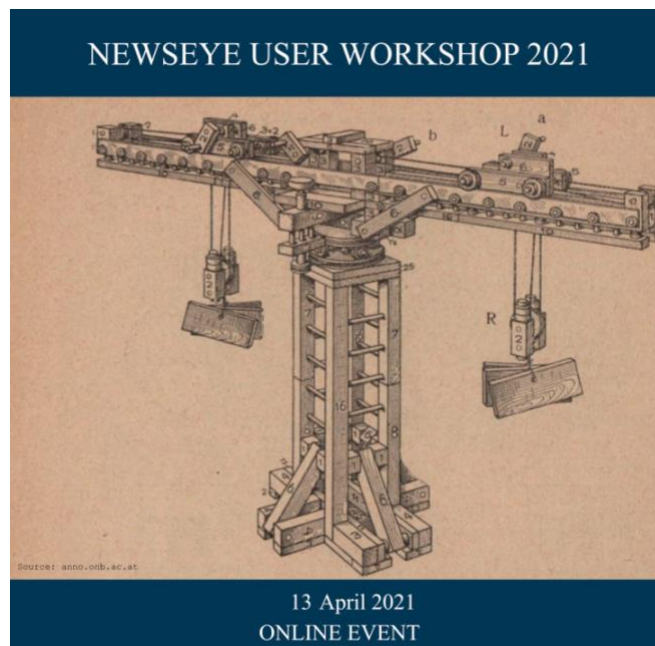
From the 8th to the 17th of March 2021, the [Helsinki Digital Humanities Hackathon](#) was arranged by the Finnish National Library (NLF) in collaboration with Tampere University students and teachers. Students received an online course assignment in which they were to independently and, at their own pace, complete a task in two parts during the allocated time slot. For this event, the NLF created a user interface (UI) using the NewsEye branding and logo and also including the NewsEye newspaper dataset, materials and project material (infographics and leaflets). During the event, the teacher heading the assignment distributed 30 packages of infographics and DH and CS leaflets in Finnish to every student. The teacher also made a short introductory lecture on the NewsEye project and our digitised newspapers as context and background to performing the task. A key public output of this assignment was a [joint scientific publication](#) available on NewsEye Zenodo page, an [early version of which](#) was published and shared on the NewsEye blog.



The Helsinki Digital Humanities Hackathon image which was shared online

❖ NewsEye User Workshop 1

The first NewsEye User Workshop took place on 13 April 2021, designed to monitor and explore how the tools developed by the project fare with its target audiences: humanities scholars, laypersons and historians as well as computer scientists. The workshop included presentations from each component of the project as an overview of the project workflow and then delved into details of our case studies, tools and how they can be used.



The User Workshop 1 image which was shared online


The aim was to also gather feedback, input and suggestions for potential improvements during the project extension. A dedicated page was created for the event on the project website with a [Save the Date and an agenda outline](#). Registrations were set up using the [project Eventbrite account](#). Social media support was constant during the events on Twitter, posting about the events' content and keynote speakers, as well as more in-depth content from the programmes. This event was further shared through the publication of an [article on the NewsEye blog](#) in August 2021.

❖ Use and reuse of digital historical newspapers: the NewsEye project in practice

In June 2021, Eva Pfanzelter and Sarah Oberbichler, historians working at the University of Innsbruck, were invited to present a talk about NewsEye to the International Federation for Public History (IFPH). Founded in 2010 and headquartered at the University of Luxembourg, [the IFPH's objectives](#) are fourfold:



1. To create an international network of public history programs, scholars, and practitioners facilitate the international exchange of information on teaching and research in and the practice of public history.
2. To share recommended professional and academic best practices, including standards for evaluating public history scholarship.
3. To foster participation of public historians and their organizations in international congresses and other meetings of scholars in the field.
4. To encourage the formation of national committees of historians working in the field of public history.

The presentation shared by Sarah Oberbichler and Eva Pfanzelter aligned with the first three objectives of this list. Entitled 'Use and re-use of digital historical newspapers: the NewsEye project in practice' shared the project with a new audience, as it was recorded and shared on the federation's [Vimeo page](#); this recording was also uploaded to the [project's YouTube page](#) and shared on Twitter. Furthermore, a [blog post](#) about the event was published in July 2021.



International Federation for Public History
Fédération Internationale pour l'Histoire Publique

Join us on June 30, 9:00 to 10:30 am (GMT-4)
for a virtual discussion between Eva Pfanzelter
and Sarah Oberbichler from The University of
Innsbruck about the **Use and re-use of digital
historical newspapers: the NewsEye project
in practice**

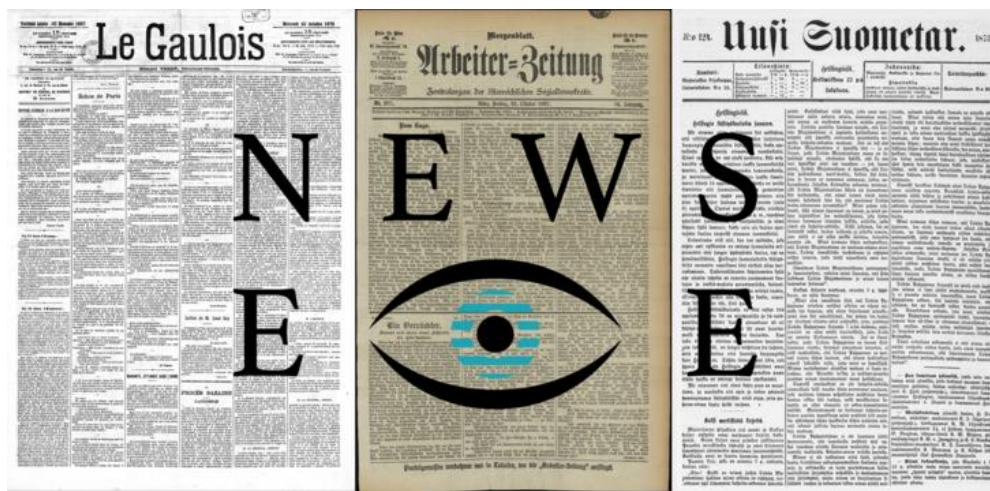



This poster created by the International Federation for Public History was shared on both the project website and on Twitter.

❖ NewsEye ICDAR 2021 Tutorial

On 7 September 2021, part of the 16th international conference on document analysis and recognition (ICDAR 2021) held in Lausanne, Switzerland, partners from ULR, UROS, UIBK and BNF presented a half-day tutorial entitled '[The NewsEye pipeline for digitalizing large collections of historical newspapers](#)'. This tutorial was tailored for the audience of the prestigious biannual conference in document analysis and recognition, mainly involving document analysis professionals from the academia and the industry. As such, it was focused on the NewsEye results that are most relevant to the conference's topic, covering challenges in digitisation, OCR, layout analysis, article separation, robust-to-noise and language-independent semantic enrichment, up to indexing and the challenges to be faced when working with large collections of newspapers written in multiple languages and coming from multiple sources.

❖ NewsEye User Workshop 2



The User Workshop 2 image which was shared online

In December 2021, a second NewsEye User Workshop took place, which was designed to monitor and explore how the tools developed by the project fare with the specific audience of library professionals. This session differed from the first, as an emphasis was made on the NewsEye platform and its possible usages in the context of these cultural institutions, along with a presentation of how Ground Truth for Article Separation was generated. Like the first instance of the workshop, this event was shared via Twitter and it attracted around 30 participants.

Contrary to its first instance, the second version of the User Workshop was recorded and this footage will be added to the NewsEye YouTube page in February 2022 in order to share these sessions with a greater number of possible viewers; furthermore, a blog post will also be published.

5 Exploitation

5.1 Exploitation opportunities: an overview

5.1.1 Exploitation of what?

The NewsEye technology and tools are described in detail within various deliverables which were created through the project's lifespan. During Years 1 and 2, we established a clear plan for exploitation, which laid out which assets could and should be exploited (KERs), by whom and in which ways through which channels. We also detailed our methodology to prepare and establish connections, outlets and platforms for eventual exploitation and finally and most importantly the sustainable elements of our outputs for future uptake and usage. By drawing up associated partnership agreement templates in this time we also prepared ourselves for collaboration and exchange with third parties for the purpose of exploitation.

From December 2019 to January 2020, we conducted surveys with each of the project's consortium partners and work package leaders, where KERs were identified. These were monitored and referred back to in order to follow the progress and status of the results and how they fared in line with the projected technology readiness levels (TRLs), where relevant, as well as the steps already taken for exploitation. These surveys also served as a basis for defining the early stages of the sustainability task as a means of analysing which results can be sustained beyond the project duration, i.e. key sustainable results (KSRs), which are detailed in public Deliverable D7.12.

List of Key Exploitable Results (KERs):

NewsEye Output	Target users and stakeholders	What will be the benefit of use? (what do your target users gain from this output - i.e. IM-PACT)
Named entity recognition and linking and stance (these could be 3 distinct outcomes)	All users	Language-independent and robust-to-noise extraction of semantic information, useful for users directly (search/navigation by named entity) or through other tools (opinion/viewpoint analysis at a given moment or over time), or for other tools (improved NLP, or analysis, such as topic modelling for instance)
Semantic Enrichment for Noisy documents		Semantic enrichment part is or will be optimised (and resilient to) OCR'd or otherwise noisy text, differentiating from the existing competing technologies. We also intend to make this possible in any language.
Event Detection		
Text Recognition & Article Separation for Newspaper Analysis	Transkribus user community; libraries, humanities researchers, existing SMEs, startup incubators	Reliable text with a very low error rate Compared with what is already on the market, this is more optimised for newspaper content
Article separation tool within Transkribus	Transkribus user community; libraries, humanities researchers	Flexible and reliable segmentation of newspaper pages into articles
NewsEye Demonstrator	NewsEye partners (and associate partners) with full access. All other users (without at least ONB and NLF data due to copyright issues; currently being looked into)	Access to collections, tools, and personal research assistant for historical newspapers datasets in any language
Analysis of content in a given context (a) - topic models (T4.1)	DH researchers	Discover/confirm historical trends from newspaper corpora
Analysis of content in a given context (b) - document linking (T4.1)	Computer scientists	Develop new methods for fast cross-lingual information retrieval (CLIR)
	Libraries and their readership	Discover related articles in other languages/data sources that might be of interest to the reader
Personal Research Assistant	Humanities researchers, Lay historians, Students	Discovery of (statistical) patterns and trends in newspaper content
	Teachers, Pupils, Libraries and their readership	Easy exploration of newspaper content
	Digital media industry	Also applicable to non historical newspaper collections.

NewsEye Output	Target users and stakeholders	What will be the benefit of use? (what do your target users gain from this output - i.e. IMPACT)
Natural language generation (T5.2)	Computer scientists	Generation of (statistical) reports in multiple languages
Explainer (T5.3)	Computer scientists	A self-explaining intelligent system
Usability/Fit for research purpose test of tools and user interfaces	NewsEye libraries and computer science groups Public reports: for DH community	Feedback on tools and methods will improve access to newspaper corpora
Educational material	Teachers, pupils and lay historians. Policy makers	Understanding of challenges and opportunities of working with historical newspapers
Contextualised Case Studies	Academic use	Show improvements of failures of work with digitised newspapers. Improve research outputs for humanities research using historical newspapers
Use of project results	All user groups Policy Makers (for the democratisation of access to the project assets)	Social Media and online activities to make projects results known to a wider audience Policy brief and roundtable Online repositories and GitHub

Most of the project tools have a very specific purpose and are in many ways independent, which means that they can also be exploited as standalone tools. However, one of the main outputs of the NewsEye project, the digital library platform, is strongly dependent on a specific workflow which is made up of the several KERs from the project (or similar tools but providing the same results). The platform (also named the Demonstrator) is therefore one key tool we aim to exploit which is detailed in the sections below.

5.1.2 Exploitation by whom?

The 3 main groups the project has focused on for use of our results are:

- Computer science and technology providers
- Digital humanities research groups
- Libraries

We have therefore considered four options to exploit the technology developed during the NewsEye project:

- Direct exploitation by the libraries (beneficiaries)
- Direct exploitation by the research groups (IP rights holders)
- Exploitation via subsidiary companies of the IP rights holders
- Exploitation via institutions and companies already in the market

The project consortium provided a variety of exploitation channels and angles depending on the audience and asset being exploited.

There are three main computer science groups in the project, coming from France, Germany, and Finland. The group from Austria plays a specific role since it has an immediate interest in exploitation through the existing READ cooperative:

- University of La Rochelle – France
- University of Helsinki – Finland
- University of Rostock – Germany
- University of Innsbruck - DEA and IUI – Austria

The NewsEye project partners from France, Finland and Germany hold the main intellectual property generated during the project in terms of tools and technology. This means that, although the other beneficiaries have preferential access to the technology developed by these groups, the final decision on exploiting the IP rights lies with these three institutions.

Within these groups, there are varying levels of interest to exploit our various tools, as well as different intentions with exploitation activities. For example, as coordinator and provider of parts of the NewsEye demonstrator platform, the group from University of La Rochelle has a strong interest in exploitation.

The group from the University of Rostock has declared from the very beginning that – as a member of READ-COOP SCE and as a supplier for OCR/HTR technology for READ-COOP's Transkribus platform – their article separation tool would be exploited directly via the Transkribus platform. Finally, the team from the University of Helsinki has made clear that they see their role in setting up research demonstrators, rather than contributing to the (commercial) exploitation.

There are also four digital humanities groups in the project:

- University of Innsbruck - ICH
- University of Helsinki DH
- University Paul-Valéry-Montpellier
- University of Vienna

These groups have acquired very specific competences during the course of the NewsEye project. They were involved in the design and concept of the tools, tested the quality and performance of the developed tools and provided suggestions for their improvement. Concerning the exploitation of NewsEye tools, the main interest of these four groups is focused on the academic sphere, which means that the above-mentioned competences provide a career opportunity for the group members. In other words: as NewsEye tools are exploited in the coming years, members of these DH groups will benefit directly as 'experts' on these tools. Such benefits could be academic assets, such as invitations as speakers or to workshops, easier access to research grants, increased publication opportunities and interest from students.

Regarding the three national libraries of the project, each library within NewsEye runs a digital library where millions of newspaper pages are offered for free to the public. All three libraries are clearly interested in using the NewsEye tools and technology for improving their own services, which means that there is also a strong interest in guaranteeing that at least some parts of the technology are further developed and exploited after the end of the project. Some of the libraries already indicated that they would be willing to support the exploitation of NewsEye tools, e.g., by acting as early adopters; the extent of their role in sustainability is further detailed in the related deliverable.

5.2 Exploitation Activities

5.2.1 Educational Materials

Numerous activities have been engaged, some of which are further described in other project deliverables. The educational materials created by the Digital Humanities group are a very strong exploitation asset (described in public deliverable D6.13), with material already exploited in 2 schools and a course implemented in both the Universities of Innsbruck and Helsinki. As previously mentioned in this report, a French language secondary school module on the theme of 'Women and the Press during the 19th and 20th Centuries' has been added to the [online repository of teaching materials](#) of the National Library of France, making this resource available to teachers throughout the country.

5.2.2 Partner Activities

The University of La Rochelle joined an Erasmus+ proposal KA203 (strategic partnerships for higher education), led by the Linnaeus University (Sweden), which was funded and runs from September 2020 to August 2023: Digital Methods Platform for Arts and Humanities (DiMPAH). ULR is in charge of preparing a course on the use of historical newspapers culminating with project work using the NewsEye demonstrator, in collaboration with the BNF Data Lab. The course is to be made available as an OER on [dariahTeach](#), and first given to the DiMPAH partners as well as in the context of the European University initiative EU-CONEXUS, led by ULR.

NewsEye partners are involved in many other projects, in which results tend to be mutually beneficial. The H2020 READ project, involving UROS and UIBK-DEA until June 2019 was already mentioned. UH-CS and ULR were both involved in H2020 EMBEDDIA since January 2019. In addition, ULR was able to secure follow-up funding from the region of Nouvelle-Aquitaine to build up on the NewsEye

demonstrator and integrate local newspaper collections of Nouvelle-Aquitaine, in collaboration with BNF and a local library. Also, UROS obtained support on a related subject with the NEISS project, running until June 2022 and funded by the European social fund and the region of Mecklenburg-Western Pomerania.

NewsEye partners also interact considerably with other related projects, in particular working on historical newspapers. This was notably the case during the NewsEye conference and workshops where participants of related projects were involved. With the Swiss-Luxembourgish Impresso project, interactions were plenty with mutual participation of each project in the other project's events, exchanges of good practice in WP1 and WP3 (with, for instance, common formats and annotation guidelines), joint publications (under evaluation), joint workshop proposals, etc. Likewise, discussions with the 'Living with Machines' project and the Berlin State Library and Europeana Newspapers' Clemens Neudecker were underlined by the organisation of NewsEye project meetings in the British library in November 2018 and a DH group meeting in Berlin in February 2020. Ties existed throughout the project and are likely to be maintained beyond. An illustration of this is the workshop on [Computational Approaches for Digitised Historical Newspapers](#) that was to be jointly organised in Dagstuhl, Germany in September 2020, and is now scheduled for 17-22 July 2022. Another illustration is the joint involvement of members of Impresso and NewsEye in the organisation of the HIPE 2022 shared task on '[Identifying Historical People, Places and other Entities](#)' with results to be presented at the [CLEF conference](#) on 5-8 September 2022.

In La Rochelle, direct collaboration is on-going with 2 industrial partners on research topics where research progress was achieved in the context of NewsEye. First, La Banque Postale Asset Management has collaborated since 2019 on a CIFRE PhD fellowship on trend detections in financial news, with topical connections to NewsEye Task T3.3 on event detection. In addition, in the context of a joint laboratory (LABCOM IDEAS) with the company Yooz, collaboration is on-going on the analysis of (contemporary) digitised documents, particularly administrative documents. In Rostock, exploitation in the field of document analysis has been constant in collaboration with the company Planet AI. Furthermore, a three-year doctoral contract to be started in 2022 has been granted over three years by ULR, during which Antoine Doucet (ULR) and Roger Labahn (UROS) and will co-supervise a student in the context of the [EU-CONEXUS](#) European university alliance.

As detailed in the public deliverable D7.12 Sustainability Plan, each national library involved in the NewsEye consortium has plans to share the demonstrator with a larger audience. BNF is currently collaborating with its newly-opened Data Lab in order to make the NewsEye Demonstrator accessible to researchers working with the digitised collections of the library. Furthermore, ONB is also currently carrying out tests within their lab environment with the aim of integrating the platform into their website. UH-NLF will add a link to the demonstrator to their [digital library website](#) and will share this information on their website.

6 Conclusions - Overall Evaluation of the Extension Period

6.1 Dissemination performance indicators

In this section, we assess the dissemination performance indicators that were defined together with the PEDR in D7.1. We list and assess them in the exact same order:

❖ Website

- Target: 10,000 unique visitors of project website by the project end
- Goal reached: Yes
- Current figure: 20,084 (of which 7007 during the extension period)
- Explanation: The target was already reached, with a clear increase in the number of visitors each year (1471 in year one, 4009 in year two, 7597 in year 3, and 7007 in the 9 months of the extension), matching the increase in the number of visible external project events and dissemination efforts.

❖ Blog

- Posts targets: 100 visitors to blog posts per year, 5 posts reaching 100 views per year, 3 blogs reproduced by third party web publications per year.
- Goal reached: Yes / Yes / Yes
- Current figures: During the extension period, 3,679 views concerned blog pages / 9 posts reached over 100 views/ No blog post was reproduced by 3rd parties during the extension. The following entries reached over 500 views:
 - <https://www.newseye.eu/blog/news/epidemie-spanische-grippe/> 837 views
 - <https://www.newseye.eu/blog/news/newseye-goes-to-school/> - 772 views
 - <https://www.newseye.eu/blog/news/british-drug-advertising-in-the-19th-century-through-the-prism-of-gender/> - 651 views
 - <https://www.newseye.eu/blog/news/multilingual-dynamic-topic-modelling/> - 647 views
 - <https://www.newseye.eu/blog/news/how-digitalization-changes-history-and-maybe-also-historical-research/> - 559 views
- Explanation: The project ended with 13,121 views of its blog pages, 22 blog entries being viewed more than 100 times. While no blog post was reproduced during the extension period (this was not formally a target then), many of those reproduced earlier were very popular, often because they were reflecting on current topics, notably in relation to the ongoing pandemic:
 - '[Sortez masqués ! Histoire médiatique du masque de protection](#)', posted on the BNF Gallica blog: 11 750 views
 - '[De la grippe espagnole au Covid-19, ces remèdes qui promettent des miracles](#)', posted on the BNF Gallica blog: 8 569 views
 - '[Covid-19 et grippe espagnole: Quand la presse du XX^e siècle rappelle celle de 2020](#)', published in the online popularising media '*The Conversation*', was viewed 26 962 times, and shared 1 700 times on social networks

❖ Twitter

- Target: 300 new followers per year
- Goal reached: Yes
- Current figure: 1,893 (+159 during the extension period)
- Explanation: Overall, we exceeded this KPI target by far during the course of the project. Our followership count rose to a final total of 1,893 by the end, largely surpassing an expected total of 1,125 (300 for 3 years + 225 for the additional 9 months).

❖ Printed materials and downloads

- Target: 100 distributed infographics and 50 downloads per year
- Goal reached: Yes / Yes
- Current figure: 360 / 812
- Explanation: The pandemic has rendered it almost impossible to distribute printed assets at events or otherwise. NewsEye infographics in all 4 project languages were created and 360 of them were however handed out at conferences and events, covering project presentations, research case studies and tool descriptions, as well as the educational materials. In the context of the pandemic, the download figures are however most adequate, and they are well above target.

❖ Media

- Targets: 1 press event per year, 3 press releases per year, 5 press mentions per year
- Goal reached: No / No / No
- Current figure: 0 / 0 / 2
- Explanation: Our main press mentions were online articles, and we have not been able to hold a press event due to restraints related to the pandemic situation. The project was only mentioned in the January – March 2022 version of *Chroniques*, the [magazine of the National Library of France](#), and on the Rai South Tyrol TV channel. Over the course of the project, 3 press releases were issued, and 26 press mentions totalled.

❖ Presentations

- Target: 10 presentations made per year
- Goal reached: Yes
- Current figure: 43 (during the extension period)
- Explanation: This figure contains invitations to talk on panels, keynote presentations and paper presentations at conferences according to the event tracker and reports from colleagues via the event report form. It also includes presentations made by the team in NewsEye events open to the public. The full list of 171 external events attended over the duration of the project can be found in Appendix F.

❖ Online video and screencasts

- Target: 200 views per videos, 10 shares and 50 likes per year
- Goal reached: Partly / Yes/ Yes
- Current figure: 10 videos with more than 200 views / 61 shares / 1791 likes
- Explanation: We have not had 200 views for all of the most recent videos, but we are confident that most will reach that number. To support this, we note that all videos published in year 2 were already viewed more than 200 times. We have had high views on videos such as vlog filmed at BNF (over 10 000 views and 1700 likes). The recording of the French-speaking workshop on 15 March 2021 also reached over 1000 views. Many other recent videos have had quick progress, in particular screencasts demonstrating the NewsEye interface, and the recent film produced by ULR video services.

❖ Podcasts

- Targets: 50 new subscribers per year, 100 plays per podcast
- Goal reached: No / Yes on average
- Current figure: N/A / 1960 plays for 17 podcasts
- Explanation:
The number of subscribers is an irrelevant KPI for a simple reason: the podcasts are hosted both on SoundCloud and on the UNIVIE platform, and most of the plays are on the UNIVIE platform which does not have a subscribing feature. When it comes to the number of plays per podcast, 6 out of 17 already have more than 100 plays. As one can expect, the number of plays is correlated with the date of release and we believe many more will pass the bar.

❖ Exploitation of results

- Target: 200 external users of the online demonstrator
- Goal reached: Yes
- Current Figure: 277
- Explanation:
The Demonstrator was open to the public in January 2020 and has been receiving a steadily increasing number of visitors as the platform developed. With several events in the extension phase, and the release of tutorials and screencasts, the number of users rose 72% from 161 at M36 to 277 registered users at the end of the extension phase.

6.2 Overview - Project Duration

NewsEye has been successful in terms of its communication, dissemination aims and achievements. Concrete exploitation leads were established during the initial funding period and remained a top priority as the project crossed over into its extension period. NewsEye has paved the way for future research to be undertaken in the European Commission's Horizon Europe and Digital Europe programs, bridging the gap between computer science, cultural heritage and digital humanities (and their funding streams).

During the first year, when it was difficult to communicate about our presence without developed tools or results, we built a foundation of relevant channels for distribution when all results were ready. In this period, we established the clear messaging matrix, defined our target audiences and did all of the necessary groundwork to identify our stakeholders and potential exploitation leads.

After the first year, since these key channels and audiences were established and identified, it was then easier to not only populate and communicate on these channels and with these tools (website, twitter, podcasts, infographics) but it was also possible to improve on them by assessing their impact via KPIs as well as internal feedback from the consortium and the Communications Task Force which convened from beginning in 2019.

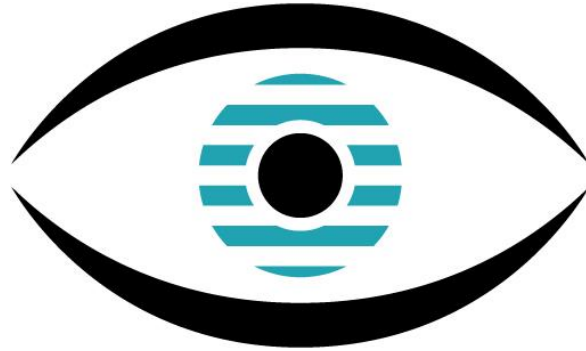
From the first to second years, there was increased regularity of our outputs (videos, podcasts, blogs, website content, updates to the website languages and layout) as well as how we measured them and how we aimed to better achieve our targets in the years following that first PEDR release. Similarly, for the reach of our social media in the two last years and the YouTube video view results as well as the increased following on Twitter, it was clear that our community had expanded and that NewsEye became a go-to for information and research on digital newspapers.

The development of the NewsEye project has proven the value and necessity of progressing toward opening the utility of historical newspaper data as a concerted effort combining expertise in digital cultural heritage, digital humanities and computer science. With the approved project extension into January 2022, this work has continued and the efforts to date not only of this associated work package but the whole team who has contributed to the content and dissemination of this project's work has led to the adoption of some of the project's contributions to digital newspaper research. Each project

partner, thus, has contributed greatly to both the elaboration of this document and to the carrying out of its associated tasks. Looking forward, the results of the NewsEye project may be exploited by both project partners and external organisations, extending its reach beyond both the initial funding period and the extension period.

Appendix A: Branding Assets

A.1. Project Logo



A.2. Project logo with strapline



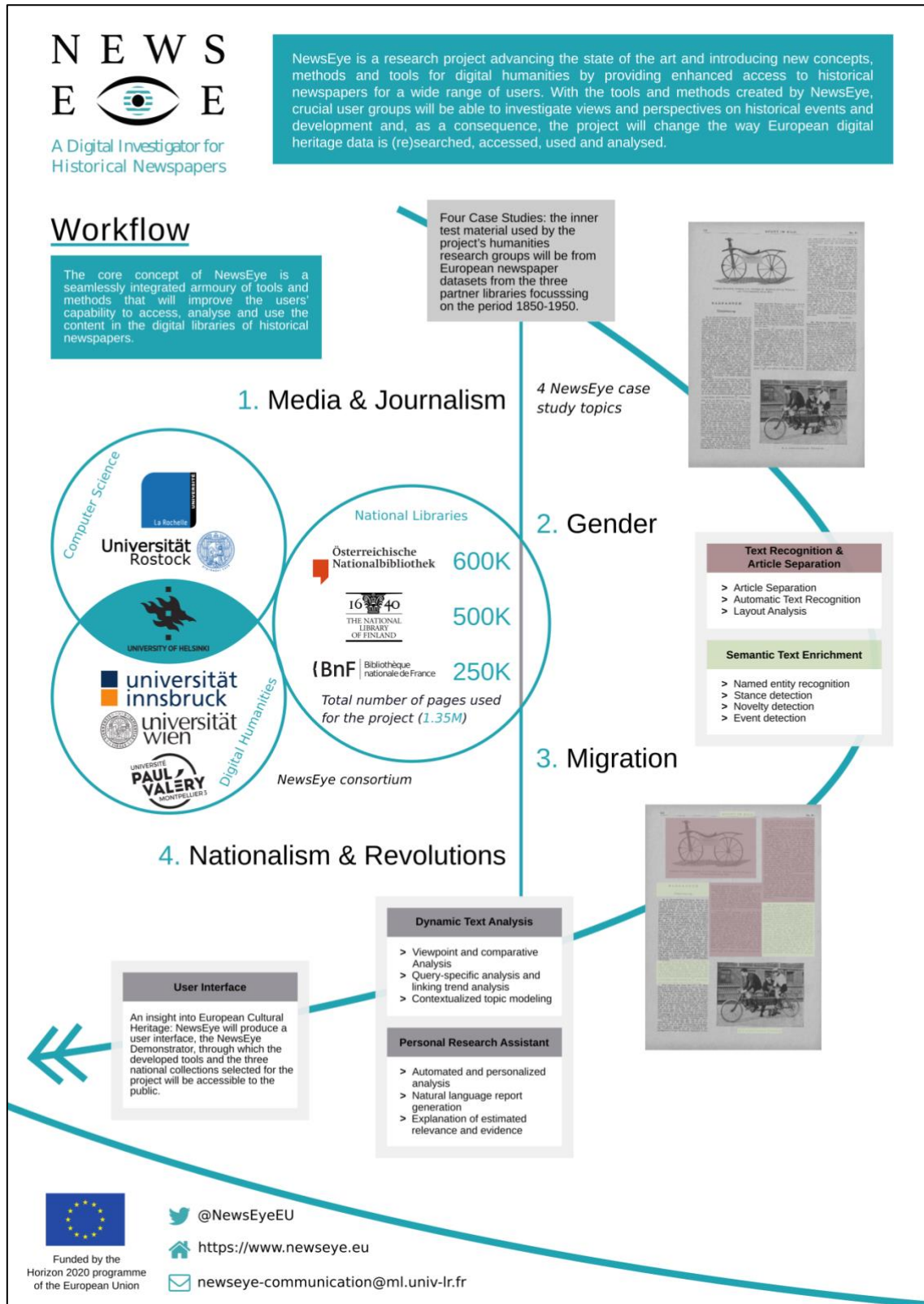
A.3 Project logo with strapline and full name



A Digital Investigator for
Historical Newspapers

A.3. Infographic (English language version)

The following infographic, which describes the NewsEye workflow, can also be downloaded from the [NewsEye project website](#) in [French](#), [German](#) and [Finnish](#).



A.4. Leaflets (English language version)

The following leaflets can also be downloaded from the [NewsEye project website](https://platform.news-eye.eu/) in [French](#), [German](#) and [Finnish](#).



A Digital Investigator for Historical Newspapers

In this project, humanities researchers, computer scientists, and librarians work together on historical newspapers of three national libraries (Austria, Finland, France)

<https://www.univie.ac.at/news-eye/>
www.news-eye.eu @news-eye-eu

NEWS
E E

Article Separation

Contact:
Roger Labahn
roger.labahn@uni-rostock.de



Article Separation (AS) is defined as the task of identifying regions on a newspaper page that hold information to one article and is an important step for further natural language processing applications in the information retrieval pipeline.

However, the AS task can be divided into two parts: (text) block recognition and subsequent clustering.

Since we already determine baselines/textlines as a preprocessing step for the Automated Text Recognition, one way to describe these text blocks is by clusters of baselines as shown in the figure.

To achieve this, our research focuses mainly on algorithms based on machine learning in addition to the use of traditional clustering methods.



A Digital Investigator for Historical Newspapers

In this project, humanities researchers, computer scientists, and librarians work together on historical newspapers of three national libraries (Austria, Finland, France)

<https://www.univie.ac.at/news-eye/>
www.news-eye.eu @news-eye-eu

NEWS
E E

Automated Text Recognition

Contact:
Roger Labahn
roger.labahn@uni-rostock.de



Vom Tage.

Im niederösterreichischen Landtage wurde heute wieder über die Erhöhung der Spitalsgebühren nicht referiert, obwohl die festgesetzte Frist um vier volle Tage überschritten ist. Die Subcomités bewähren sich.

Vom Tage.

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Automatic Text Recognition provides a transcription for each text line

Automatic Text Recognition (ATR) is the task of automatically transcribing the textual contents contained in images. This is a fundamental step in the NewsEye workflow, as it provides the textual data which is needed to further be processed in Natural Language Processing tasks.

In our case, we apply models on segmented text line images, which are the results of a Layout Analysis algorithm. These models involve deep Artificial Neural Networks designed for sequence labeling tasks. Additionally, the results of such ATR models include posterior character probabilities, which can be used to search in the transcription by means of keyword spotting.



A Digital Investigator for Historical Newspapers

In this project, humanities researchers, computer scientists, and librarians work together on historical newspapers of three national libraries (Austria, Finland, France)

<https://www.univie.ac.at/news-eye/>
www.news-eye.eu @news-eye-eu


NEWS
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NewsEye Demonstrator

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The NewsEye demonstrator (<https://platform.news-eye.eu/>) showcases the different outputs of the project. Its website, freely available, allows users to explore newspaper collections in different languages. Ranging from 1850 to 1950, these newspapers were made available by three National Libraries of the project: in Vienna, Paris and Helsinki. After searching through the collection, users can create personal collections to gather documents of interest. These collections can be exported in various formats or analysed directly inside the Demonstrator.



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NEWS
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Semantic Text Enrichment
for OCR'd content

Semantic text enrichment consists of analyzing documents and adding semantic metadata to their contents. Among several semantic metadata, we concentrate on named entities and, more precisely, we aim to recognize these entities in documents and disambiguate them to a knowledge base. In addition, these entities will be associated with the stance of the text in which they are mentioned.

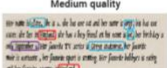
However, OCR'd documents contain numerous errors due to the state of documents, as a result of aging, poor storage conditions and/or the low quality of initial printing materials. These errors reduce the performance of all downstream natural language processing tasks (such as NER, NEL and stance detection).

To overcome these problems, NewsEye designs approaches based on the most recent techniques (neural networks and deep learning) that are robust to OCR problems and language independent. Out of 13 competitors, NewsEye approaches reached first place in 50 of 52 leaderboards on NER and NEL in English, French and German at the CLEF HIPE 2020 competition.


Reasonable quality



Medium quality



Poor quality





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NEWS
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Case Study on Gender
Women (in pants)
1850-1950

The case study on gender aims to bring to light the evolution of the representation of women in the news from 1850 to 1950. We are interested in the feminine condition (the right to vote, the right to wear pants), as well as the female figures who infiltrate the journalistic space: female writers/journalists. What place is given to them in the newspapers? What role do newspapers play in the struggles of women? Digital tools (notably topic modeling and frequency tools) are very valuable in this case study for revealing the trends and key figures.

LA QUESTION DES FEMMES







A Digital Investigator for Historical Newspapers

In this project, humanities researchers, computer scientists, and librarians work together on historical newspapers of three national libraries (Austria, Finland, France)

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NEWS
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Case Study: Media & Journalism
The interaction between editorial office and readers

An die künftigen Abonnenten.
Habt ihr ein Schiff vom Stapel laufen sehen, lieber Leser? Es ist ein interessanter Bild, und gar manche Betrachtungen und Gedanken, bei-
Zweite Auflage.
An unsere Leser!
Wieder einmal haben wir die Redaktion der Wiener Allgemeinen Zeitung...
Wiener Allgemeine Zeitung, 13 November 1880, page 1, evening paper

In the "long" 19th century, newspapers became the mass medium par excellence. At the same time, this created a new public sphere, where the negotiations of the modern nation state played an important role. However, the common perception that the dissemination of news and opinion by the press during this period was a one-way, linear process in which information was carried from the editorial office to the readers is not entirely correct. There were different possibilities of interaction and two-way communication. This case study therefore focuses on this interaction.





A Digital Investigator for Historical Newspapers

In this project, humanities researchers, computer scientists, and librarians work together on historical newspapers of three national libraries (Austria, Finland, France)

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NEWS
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Case Study on Nationalism
The language of Nationalism
1850-1950

Finska Språket, betraktadt såsom Nationalspråk.

The case study on nationalism focuses on the changing language of nationhood in the late 19th and early 20th century. It asks the following questions: how did discourse on nationhood expand in the nineteenth century? How and why did the notion of nationalism become a central figure of thought in the early twentieth century?

The case combines qualitative reading of sources with frequency analysis and word embedding models to cluster key terms.






**A Digital Investigator for
Historical Newspapers**

In this project, humanities researchers, computer scientists, and librarians work together on historical newspapers of three national libraries (Austria, Finland, France)

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Case Study on Nationalism

The language of Nationalism 1850-1950

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The case combines qualitative reading of sources with frequency analysis and word embedding models to cluster key terms.



Appendix B: Full List of Publications and Research Outputs

Book Chapters

1. Marjanen, J. (2021). [National Sentiment: Nation Building and Emotional Language in Nineteenth-Century Finland](#). In V. Kivimäki, S. Suodenjoki, & T. Vahtikari (Eds.), *Lived Nation as the History of Experiences and Emotions in Finland, 1800-2000* (pp. 61–83). Springer International Publishing. https://doi.org/10.1007/978-3-030-69882-9_3
2. Oberbichler S. & Pfanzelter E., [Tracing Discourses in Digital Newspaper Collections: A Contribution to Digital Hermeneutics while Investigating 'Return Migration' in Historical Press Coverage](#), in: *Digitised Newspapers – A New Eldorado for Historians? Tools, Methodology, Epistemology, and the Changing Practices of Writing History in the Context of Historical Newspapers Mass Digitization*, De Gruyter Oldenbourg, 2022.
3. Gasteiner M. & Enderlin A., [Crossing or Intersecting the Emperor's Desk with digitized Newspaper Data: Entity-source-networks in the late Habsburg Empire](#), in: *Digitised Newspapers – A New Eldorado for Historians? Tools, Methodology, Epistemology, and the Changing Practices of Writing History in the Context of Historical Newspapers Mass Digitization*, De Gruyter Oldenbourg, 2022.

Journal Articles

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6. Nguyen, T. T. H., Jatowt, A., Coustaty, M., & Doucet, A. (2021). Survey of Post-OCR Processing Approaches. *ACM Computing Surveys*, 54(6), 1–37. <https://doi.org/10.1145/3453476>
7. Oberbichler, S., Boros, E., Doucet, A., Marjanen, J., Pfanzelter, E., Rautiainen, J., Toivonen, H., & Tolonen, M. (2022). Integrated interdisciplinary workflows for research on historical newspapers: Perspectives from humanities scholars, computer scientists, and librarians. *Journal of the Association for Information Science and Technology*, 73(2), 225–239. <https://doi.org/10.1002/asi.24565>
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Conference Papers

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2. Bernard, Guillaume, Suire, Cyrille, Faucher, Cyril, & Doucet, Antoine. (2022a). A Comprehensive Extraction of Relevant Real-World-Event Qualifiers for Semantic Search Engines. *Linking Theory and Practice of Digital Libraries*, 12866, 153–164.
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Appendix C: Full List of Blog Articles

	Year of Publication	Title
1.	2018	Kickoff!
2.	2018	'The meat to the bones'
3.	2018	The NewsEye Case Studies: A first dig into the library newspaper corpora
4.	2018	How digitalization changes history (and maybe also historical research)
5.	2019	#WomenInPants
6.	2019	Online research of digital newspapers of three national libraries: A survey.
7.	2019	The Press Collection of the National Library of France (Bibliothèque Nationale de France)
8.	2019	British drug advertising in the 19th century through the prism of gender
9.	2019	What's the frequency, Kenneth?
10.	2019	A perspective on research on digitised newspapers at DH2019
11.	2019	The fire of Wöllersdorf (1918) in Austrian Newspapers
12.	2019	On Multilingual Dynamic Topic Modeling
13.	2019	Building a Bilingual Nation
14.	2020	Identifying the 'right' widow in WW1 newspapers
15.	2020	Von „billigen Preisen“, Landarbeitern und Auswandereragenten: Migrationsdiskurse in historischen, österreichischen Zeitungen (1850 bis 1950)
16.	2020	Als eine andere Epidemie die Welt in Atem hielt: Die Spanischen Grippe 1918/19 in der österreichischen Presse
17.	2020	Go out wearing masks! A media history of face masks
18.	2020	NewsEye goes to school: A first look at our educational material
19.	2020	From the Spanish flu to Covid-19: the remedies claiming to work miracles
20.	2020	„An unsere Leser“: The interaction between newspaper and readership and the journalistic self-image
21.	2020	Of „difficult“ and „modern“ times. The development of journalism in historical newspapers
22.	2020	Newspapers as „social“ media: Crowdsourcing and user-generated content in historical perspective
23.	2020	Bringing together what belongs together: Thematic grouping of newspaper clippings using LDA and JSD
24.	2021	Curfew and inflammatory media coverage: spotlight on an exceptional measure
25.	2021	The invention of Mother's Day: origins, media history and gift ideas
26.	2021	Where did it happen?: Spatial imaginaries of World War I
27.	2021	Use and reuse of digital historical newspapers: the NewsEye project in practice
28.	2021	What's Past is Prologue: The NewsEye International Conference 2021
29.	2021	The Representation of Women in Digitised Historical Newspapers: A Seminar at the National Library of France
30.	2021	Datasets and Demonstrations: The NewsEye User Workshop
31.	2021	Back to School with NewsEye Educational Materials
32.	2021	Artificial Intelligence for Cultural Organisations: A Conversation with Dr Lise Jaillant
33.	2021	Navigating Collections of Digitised Historical Newspapers: A Conversation with Ben Lee
34.	2021	The Ins and Outs of the impresso Project with Maud Ehrmann
35.	2021	Taking Stock of NewsEye with the University of Rostock
36.	2021	Looking Back on NewsEye with The National Library of France
37.	2021	Taking the Lead: La Rochelle University and the NewsEye Project

38.	2022	NewsEye and the National Library of Finland
39.	2022	Computer Science and Digital Humanities: The Role of the University of Helsinki in the NewsEye Project
40.	2022	Article about the National Library of Austria's participation in NewsEye (to be published)
41.	2022	Article about the University of Innsbruck's participation in NewsEye (to be published)
42.	2022	Article about the University of Vienna's participation in NewsEye (to be published)
43.	2022	Article about the University of Montpellier's participation in NewsEye (to be published)
44.	2022	Article about December 2021's User Workshop (to be published)
45.	2022	Final article wrapping up the project (to be published)

Appendix D: Full List of YouTube Videos Featuring NewsEye

Videos on the [NewsEye EU YouTube page](#)

	Year of Upload	Title
1.	2020	NewsEye Demonstrator Tutorial
2.	2020	NewsEye Demonstrator in Action: searching and analysing data (The Spanish Flu)
3.	2020	NewsEye Demonstrator in action: creating and managing datasets
4.	2020	Pourquoi la presse ancienne ? (Fête de la Science Oct 2020 - La Rochelle Université)
5.	2020	Forschen und Lernen mit ANNO: Erweiterte Suche
6.	2020	Forschen und Lernen mit ANNO: Zeitungs und Jahresübersicht
7.	2020	Forschen und Lernen mit ANNO: Einfache Volltextsuche
8.	2021	A (brief!) introduction to OCR in Digital Humanities
9.	2021	Multidisciplinary Collaboration - an example from the NewsEye project
10.	2021	Using Named Entities in the NewsEye Platform
11.	2021	A Digital History Workflow - Emigration and economic benefits/advertising between 1850 and 1950
12.	2021	Running automated experiments on the NewsEye platform
13.	2021	Use and reuse of digital historical newspapers: the NewsEye project in practice
14.	2021	NewsEye International Conference: Working with Classified News Items and Information Extraction
15.	2021	NewsEye International Conference: Introduction, Keynote Speaker Presentations & Discussion
16.	2021	NewsEye International Conference: Digitised Newspapers & Machine Learning
17.	2021	NewsEye International Conference: Paper Presentations from NewsEye Contributors & Colleagues
18.	2021	NewsEye International Conference: Digitised Historical Material - Improving Data Quality
19.	2021	NewsEye International Conference: Challenges and Perspectives in Digital Research
20.	2021	NewsEye: A Digital Investigator for Historical Newspapers
21.	2021	NewsEye : Un enquêteur numérique pour la presse ancienne
22.	2022	Videos from December 2021's User Workshop (to be uploaded)
23.	2022	Video featuring NewsEye and the University of Innsbruck in German (English subtitles)
24.	2022	Video featuring NewsEye and the University of Innsbruck in Italian

Videos on other YouTube pages

	Year of Upload	Title
1.	2019	Projet NewsEye - On remonte dans le temps !
2.	2019	De MRSEI à l'Europe : témoignages de lauréats
3.	2020	CLEF HIPE 2020 - L3i Team
4.	2020	CLEF HIPE 2020 - Overview
5.	2020	ECIR2020 288 NewsEye: Online Exploration of Historical News
6.	2021	Comment répondre à un appel à projets européen ? Comment procéder ? Quelles aides ?
7.	2021	IIF for Interoperability & Dissemination of Research Results: The NewsEye European Project Use Case
8.	2021	À la recherche des femmes dans la presse ancienne numérisée (1850-1950)
9.	2021	Dig into historical Bulgarian Newspapers

Appendix E: Full Podcast List

	Year of Upload	Title
1.	2019	An Introduction to NewsEye
2.	2019	NewsEye interviews Günter Mühlberger (Uni Innsbruck)
3.	2019	NewsEye interviews the ÖNB Labs
4.	2019	Research data, suitcase terms and tacit knowledge - An Interview with Jennifer Edmond
5.	2019	Communicating NewsEye, an interview with Tonica Hunter
6.	2019	Eva Pfanzelter on her research and the digital humanities agenda in NewsEye
7.	2020	NewsEye interviews Professor Hannu Toivonen
8.	2020	KI unter genauer Überwachung durch die Mathematik?
9.	2020	We are allowed to be Austrians again! An Interview with Stefan Hechl
10.	2020	Historische Migrationsforschung in digitalisierten Zeitungsbeständen mit Sarah Oberbichler
11.	2020	"Manage Expectations" - interview w/ NewsEye project coordinator Antoine Doucet.
12.	2020	Digitale Zeitungen als Inspiration für die Lehre
13.	2020	On topic modelling: a conversation with Mark Granroth-Wilding.
14.	2020	Eco Systems in Teaching and Open Science / Influencing the Digital Culture.
15.	2021	The Demonstrator. Platform, Architecture, Data. An interview with Axel Jean-Caurant.
16.	2021	T01. Telegraphie / Globalisierung / Journalismus
17.	2021	T02. Telegraphic Practices in 19th Century India.

Appendix F: NewsEye Event Tracker

	Date	Location	Name	URL	Target Audience	Type of activity	Post event comments	NewsEye attendee/s (name and organisation)	Dissemination Achieved	Relevance to WP
1	31.08–05.09.2018	Edmonton, Canada	XII. Convention of the Austrian Centers 2018		Historians, Social Science Researchers, Political Science Researchers etc.	Conference	Presentation: The Study of Historical Newspapers with the Digital Investigator “NewsEye” – Background, Problems and Challenges	S. Oberbichler (UIBK-ICH)	Invited talk	6
2	07.09.2018	Jakarta, Indonesia	1st Indonesian Association for Pattern Recognition International Conference 2018 (The 1st 2018 INAPR International Conference)	http://inapr.org/	Computer Science Researchers	Conference		A. Doucet (ULR)	Invited keynote	2-4
3	19.9.2018	Helsinki, Finland	Digitalisation, Future Universities and Society	https://www.helsinki.fi/en/news/teaching-studying-at-the-university/seminar-digitalisation-future-universities-and-society	Digital Humanities Researchers	Workshop		J. Marjanen (UH)	Invited talk	6
4	25-29.09.2018	Mexico city, Mexico	18th International Congress on Computer Science	http://www.core.cic.ipn.mx/	Computer Science Researchers	Conference		A. Doucet (ULR)	Invited keynote	2-5

5	29.09.2018	Paris, France	(H2020 information day) Journée d'information nationale : Les S.H.S. dans les défis sociétaux du programme Horizon 2020	http://www.horizon2020.gov.fr/cid134708/retour-sur-la-journee-d-information-nationale-les-s.h.s.-dans-les-defis-societaux-du-programme-horizon-2020.html	H2020 project participants	Conference		E.Freyre (BNF)	Invited to present	
6	02.10-04.10.2018	Library of Congress, Washington DC, USA	Collections as Data: Digital Scholarship in the Arts and Humanities: An International DARIAH Exchange.	https://dbe.hypotheses.org/workshops/library-of-congress	Digital Humanities Researchers	Knowledge Exchange Session on Digital Newspapers		A. Doucet (ULR), M. Tolonen (UH-DH)	Invited keynote	
7	04.10–05.10.2018	Rostock, Germany	Bibliotheca Baltica	https://www.bb2018.uni-rostock.de/	Researchers working on information technology for heritage materials and professionals from the library, archive and museum communities	Conference		G.Mühlberger (UIBK-DEA), H.Toivonen (UH-CS), K.Kettunen (UH-NLF), R.Labahn (UROS)	Keynote & 3 Invited Talks	1-6
8	03.10.2018	Mikkeli, Finland	Morning coffee session at the Mikkeli University Consortium		Digital Humanities Researchers	Informal event	Presentation in exchange for travel support from the consortium to La Rochelle, 5/18	Minna Kaukonen (NLF)	Invited to present	

9	11.10.2018	Lausanne, Switzerland	DH institute seminar lecture series at École polytechnique fédérale de Lausanne (EPFL)	https://www.epfl.ch/schools/cdh/research-2/dhi/dh-activities/	Digital Humanities	Guest lecture seminar series		A. Doucet (ULR)	Invited talk	7
10	23.10.2018	Helsinki, Finland	HELDIG Digital Humanities Summit 2018	https://www.helsinki.fi/en/helsinki-centre-for-digital-humanities/heldig-digital-humanities-summit-2018		Conference		J. Rautiainen (UH-NLF)	Invited talk	
11	30.10.2018	Luxembourg	workshop on topic modelling and digital history		Digital Humanities Researchers	Workshop	Invited by the Impresso project	J. Marjanen, S. Hengchen (UH)	Invited talk & workshop	6
12	07.11.2018	Stockholm, Sweden	Workshop on Automatic Detection of Language Change	https://spraakbanken.gu.se/swe/forskning-diabase/programme-workshop-automatic-detection-language-change	Digital Humanities Researchers	Workshop		J. Marjanen, S. Hengchen (UH)	Paper	6
13	14.11.2018	Brussels, Belgium	Workshop in the European Year of the Culture Heritage		Digital Humanities Researchers	Workshop	Presentation of H2020 cultural heritage projects by their coordinators	A. Doucet (ULR), M. Kaiser (ONB)		
14	19-22.11.2018	Hamilton, New-Zealand	The 20th International Conference on Asia-Pacific Digital Libraries	https://icadl2018.org/	Digital Library	Conference	2 long papers of NewsEye presented	A. Doucet (ULR)	Presentations	2,3,7
15	29.11–01.12.2018	Salzburg, Austria	dha2018. empowering researchers	http://dha2018.sbg.ac.at/en/start/	Digital Humanities Researchers	Conference				
16	04.12.2018	Helsinki, Finland	Missä mennään - webinar		Libraries and library network	Webinar		J. Rautiainen (NLF)	Invited talk	

17	04.12.2018	Paris, France	Journée d'étude "Humanités et Numérique : vers plus de confiance dans la production du discours scientifique"		Digital Humanities Researchers	Conference	Organised by and at "Institut des Amériques"	A. Doucet, M. Coustaty (ULR)	Invited talk	7
18	06.12.2018	Paris, France	Journées nationales science ouverte	https://inso2018.sciencesconf.org/resource/page/id/4	Policy Makers	Conference (political)		A. Doucet (ULR)	Invited talk on historical newspapers	7
19	24.01.2019	Basel, Switzerland	Digital Humanities 5 years since. In Memoriam Peter Haber		Digital Humanities Researchers, Libraries	Online- and Offline Conference	Presentation: Digital Methods in Digital Newspaper Research. The NewsEye Project as an Example	E. Pfanzelter (UIBK-ICH)	Invited keynote	6
20	12.2.2019	Oulu, Finland	NLF Data Clinic			Workshop	Presentation	J. Rautiainen (NLF)		
21	01.03.2019	Graz, Austria	„Digitale Horizonte“ - „Digitale Horizonte“ Innovation in Gedächtnis- und Forschungsinstitutionen	http://www.europeana-local.at/index.php?option=com_content&view=article&id=112:digbib2017&catid=7:veranstaltungen&Itemid=22	Digital Humanities Researchers, Libraries	Conference				
22	06-08.03.2019	Copenhagen, Denmark	Digital Humanities in the Nordic countries	http://dig-hum-nord.eu/	Digital Humanities Researchers	Conference	Presentation of one of the DH case studies	J. Marjanen (UH)	Paper presentation	6
23	10.03.2019	Joensuu, Finland	NLF Data Clinic		Digital Humanities Researchers	Workshop	Presentation	J. Rautiainen (NLF)		
24	21.03.2019	Jyväskylä, Finland	NLF Data Clinic		Digital Humanities Researchers, Libraries	Workshop	Presentation	J. Rautiainen (NLF)		

25	26.03.2019	Tampere, Finland	NLF Data Clinic		Digital Humanities Researchers	Workshop	Presentation	J. Rautiainen (NLF)		
26	27.03.2019	Turku, Finland	NLF Data Clinic		Digital Humanities Researchers, Libraries	Workshop	Presentation	J. Rautiainen (NLF)		
27	25.03.2019	Innsbruck, Austria	Forschungskolloquium		Historians, Humanities Researchers	Research Forum Humanities	Presentation: Newseye (title: NewsEye: A Digital Investigator for Historical Newspapers (2018-2021))	S. Oberbichler, B. Klaus (UIBK-ICH)		6
28	27-29.03.2019	Canberra, Australia	DARIA beyond Europe - exchanges with Australian national library	https://dbe.hypotheses.org/workshops/	Digital Humanities Researchers	Knowledge Exchange Session on Digital Newspapers		A. Doucet (ULR)	Invited keynote	7
29	07.04-13.04.2019	La Rochelle, France	CICLing: International Conference on Computational Linguistics and Intelligent Text Processing	https://www.cicling.org/2019/	Natural Language Processing researchers	Conference (ca 200 people expected)	230 registrations from 45 countries - the NewsEye logo was on all conference material + poster at the entrance	A. Doucet (ULR) local chair, many other ULR	Poster at the entrance and logo on every conference document and website	(2), 3-5
30	11-14.04.2019	Bowling Green, Ohio, USA	2019 Austrian Studies Association Conference	https://www.bgsu.edu/ASAConference	Humanities Researchers	Conference	Presentation: The Returnees: Remigration to Austria between 1850 and 1950	S. Oberbichler (UIBK-ICH)	Invited to present	6

31	15-24.05.2019	Helsinki, Finland	DH Hackathon	https://www.helsinki.fi/en/helsinki-centre-for-digital-humanities/helsinki-digital-humanities-hackathon	Digital Humanities Researchers	Hackathon		Many		All
32	14-15.05.2019	Helsinki, Finland	Workshop: Monen tieteen paikka: tutkimus, metodit ja SKS	https://www.finlit.fi/fi/ajankohitaista/tapahtumakalent/eri/monen-tieteen-paikka-tutkimus-metodit-ja-sks#.XdUVfkdS8kl	Digital Humanities Researchers	Workshop	Presentation of on the DH case studies	J. Marjanen (UH)	Invited to present	6, 7
33	16.05.2019	Helsinki, Finland	Sanomalehti symposiumi	https://www.kansalliskirjasto.fi/fi/tapahtumat/sanomalehtisymposiumi-kansalliskirjastossa	Historians, Humanities Researchers			J Rautiainen (NLF), M Kaukonen (NLF)	Invited to present	
34	02-06.06.2019	Urbana, USA	JCDL conference (top conference in digital libraries)	https://2019.jcdl.org/	Digital libraries	Conference	2 long papers and 1 poster to be presented	A. Doucet (ULR)	Paper presentation	7
35	07.06.2019	Mikkeli, Finland	National Archival Conference	http://www.cvent.com/events/suomen-9-arkistop-iv-t-mikkeliss-5-7-6-2019/event-summary-76e0a3ed9d7248a29ed0256032d96870.aspx	General Public	Conference	15-min presentation (part of this NewsEye content)	J. Lilja (NLF) presenting M. Kaukonen's (NLF) paper	Invited to present	7
36	13.06.2019	Vienna, Austria	ÖNB Labs Symposium	https://www.eventbrite.de/e/onb-labs-symposium-tickets-61031085620		Conference	15-min presentation (title: ANNO. Interface and Usability)	B. Klaus (UIBK-ICH)	Invited to present	6
37	13.14.06.2019	Berlin, Germany	SC advisory board, Staatsbibliothek Berlin							
38	17.06.2019	Innsbruck, Austria	Workshop Series Digital Humanities Center Innsbruck		Digital Humanities Researchers	Workshop	Presentation: DigiVis: Visualizing discursive Structures in Texts	S. Oberbichler (UIBK-ICH) [with Manfred Moosleitner]	Invited to present	6

39	19.06.2019	Poitiers, France	Yearly workshop of the CAHIER consortium	https://cahier.sciencesconf.org/program/graphic/date/2019-06-19	Digital Humanities Researchers	Workshop	Plenary invited presentation of NewsEye	A. Doucet, M. Coustaty (ULR)	Invited to present	7
40	20.06.2019	La Rochelle, France	Workshop organised by H2020 French national contact points: how to answer a call of the H2020 programme (Comment répondre à un appel à projet du programme Horizon 2020 ?)		Researchers in all fields	Workshop	30-min talk and feedback	A. Doucet (ULR)	Invited to present	7
41	03.07.2019	La Rochelle, France	L3i annual workshop		Researchers in Computer Science	Workshop	Presentation	E. Linhares Pontes (ULR)		
42	08-12.07.2019	Utrecht, Netherlands	Digital Humanities Conference (ADHO)	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=2ahUKEwiA4pOuy_iIAhWI3OAKHXvMBvUQFjAAegQIBRAB&url=https%3A%2F%2Fdh2019.adho.org%2Fprogramme%2Fschedule%2F&u sg=AOvVaw1rILoE56TN8zci4qkYYSBh	Digital Humanities Researchers	Conference	Paper and long paper presentation	J. Marjanen (UH), S. Hengchen (UH), M. Tolonen (UH)	Paper presentation	6, 7
43	09-12.07.2019	Utrecht, Netherlands	Digital Humanities conference	https://dh2019.adho.org/		Conference	Panel "The Past, Present and Future of Digital Scholarship with Newspaper Collections"	JP Moreux (BnF)		

44	24.-30.08.2019	Athens, Greece	IFLA WLIC Conference	https://2019.ifla.org/	Library professionals	Conference	News Media Section and Digital Humanities Initiative Open Session	Juha Rautiainen (NLF), M. Kaukonen (NLF)	Invited to present	7
45	04-06.09.2019	Umeå, Sweden	HumLab symposium on computational history		Digital Humanities Researchers	Conference	Keynote	M. Tolonen (UH)	Invited keynote	
46	09-12.09.2019	Oslo, Norway	TPDL (european conference on DL)	http://www.tpd.eu/tpdl2019/	Digital libraries	Conference		A. Doucet (ULR)	A. Doucet = PC co-chair	7
47	11.09.2019	Graz, Austria	Österreichischer Bibliothekartag	https://bibliothekartag2019.univie.ac.at/home/	Librarians	Conference	Presentation	M. Gasteiner (univie)	Invited to present	1, 6
48	12.09.2019	Oslo, Norway	HistoInformatics2019	https://sites.google.com/site/histoinformatics2019workshop/home		Workshop	Keynote, paper presentation	M. Tolonen (UH), J. Marjanen (UH)	Invited keynote, paper presentation	6
49	20.09.2019	Leipzig, Germany	Bewertungskultur im Wandel? Zur uneinheitlichen Sammlung und Sichtbarkeit, Zugänglichkeit und Erschließung von Kulturerbe im Digitalen	CFP (https://networks.h-net.org/node/79435/discussions/4181595/cfp-bewertungskultur-im-wandel-zur-uneinheitlichen-sammlung-und)	Digital Humanities Researchers	Workshop	Presentation (Survey & Interface Testing)	B. Klaus (UIBK-ICH)		
50	25-29.09.2019	Sydney, Australia	ICDAR conference	http://icdar2019.org/	Document Analysis	Conference	Organisation of post-OCR competition (ULR+BNF) / participation to competitions (UROS)			2,3,7
51	26.-27.09.2019	Tallinn, Estonia	Finnish Academy DH seminar		Digital Humanities Researchers	Workshop	Presentation	M. Tolonen (UH)	Invited to present	

52	30.09.- 2.10.2019	Leipzig, Germany	Clarín annual conference	https://www.clarin.eu/event/2019/clarin-annual-conference-2019-leipzig-germany		Conference		M. Tolonen (UH)	Invited to present	
53	10- 12.10.2019	Washington D.C., USA	Digital Hermeneutics: From Research to Dissemination	https://www.ghi-dc.org/events-conferences/event-history/2019/conferences/2019-dh-conf.html?L=0	Digital Humanities Researchers	Conference	Presentation: NewsEye - Investigating History through Digital Historical Newspaper Interfaces: Case Studies on Migration and Nationalism & Revolutions (1850-1950)	S.Oberbichler, B. Klaus (UIBK-ICH)	Invited to present	6
54	08- 10.10.2019	Göttingen, Germany	CERL annual conference	https://www.cerl.org/services/seminars/presentations/2019	Library professionals, Digital Humanities Researchers	Workshop	Keynote	M. Tolonen (UH)	Invited keynote	
55	10- 12.10.2019	Dresden, Germany	Time machine	https://conference.timemachine.eu/	Digital Humanities Researchers	Conference	Panel member	M. Tolonen (UH)	Invited to panel	
56	16.10.2019	Stockholm, Sweden	Europeana event		Library, archives and museums professionals	Workshop	Presentation: NLF Case Study (including short presentation on NewsEye)	M. Kaukonen (NLF)	Invited to present	7

57	17-18.10.2019	Vienna, Austria	Biographien, Netzwerke und Mobilität	https://sites.google.com/view/biographie-netzwerk-mobilitaet/programm?authuser=0	Digital Humanities Researchers	Conference	Presentation: Rückkehrmigration nach Europa in deutschsprachigen Zeitungen: Problemstellungen und erste Ergebnisse einer digitalen Korpusanalyse	S.Oberbichler (UIBK-ICH)	Invited to present	6
58	22.10.2019	Hanoi, Vietnam	Sequential pattern mining for robust event detection - VinAI Research	VinAI Research			Presentation	A.Doucet (ULR)		
59	24-26.10.2019	Oulu, Finland	Historiantutkimuksen päivät	https://www.oulu.fi/hitu2019/	Researchers	Conference	Presentation	J. Marjanen (UH)	Paper presentation	6
60	05.11.2019	London, UK	British Library		Library professionals	Internal training day	Presentation	M. Tolonen (UH)	Invited to present	
61	05.11.2019	Kuala Lumpur, Malaysia	ICADL 2019	http://icadl2019.org/	Document Analysis	Conference	Presentation	E. Linhares Pontes (ULR)	Paper presentation	
62	06.11.2019	London, UK	Springer Nature: Better science through better data	https://media.springernature.com/full/springer-cms/rest/v1/content/17308622/data/v5	Open science event	Workshop	Keynote	M. Tolonen (UH)	Invited keynote	
63	07.11.2019	Helsinki, Finland	Helsinki Digital Humanities Summit	https://www.helsinki.fi/en/helsinki-centre-for-digital-humanities/heldig-digital-humanities-summit-2019	Digital Humanities Researchers			J. Marjanen (UH), E.Zosa (UH)	Invited to present	4-6
64	07.11.2019	Helsinki, Finland	Helsinki Digital Humanities Summit	https://www.helsinki.fi/en/helsinki-centre-for-digital-humanities/heldig-digital-humanities-summit-2019	Digital Humanities Researchers			M. Tolonen (UH)	Invited to present	4-6

65	25.11.2019	Berlin, Germany	Digillu-Workshop: Zusammenstellung und Erschließung von Korpusdaten	https://sprache.hypotheses.org/digillu-workshop	2/3 Humanities and 1/3 Computer Science researchers	Workshop	Keynote presentation	Antoine Doucet (ULR)	Invited to present	All, focus on WP3
66	04-06.12.2019	Tallinn, Estonia	Annual Estonian DH conference	https://dh.org.ee/events/dhe2019/	Library professionals, Digital Humanities Researchers	Conference	Keynote	M. Tolonen (UH)	Invited keynote	
67	23-24.01.2020	Paris, France	Ateliers « Histoires du cinéma et humanités numériques »	https://passerelle.hypotheses.org/780	GLAMs professionals and researchers	Conference/workshops		JP Moreux (BNF)		
68	30.01.2020	Kyoto, Japan	Kyoto University informatics seminar	http://www.iip.ist.i.kyoto-u.ac.jp/informatics-seminar/doku.php?id=schedule#january_30	Computer science researchers	Seminar/talk		A. Doucet (ULR)	Invited to present	All, focus on WP3
69	30.01.2020	Poitiers, France	Ateliers "Guerres, conflits, exils et archives"	https://ecana.hypotheses.org/570	Digital Humanities Researchers	Workshop		C. Suire (ULR)	Invited to present	7
70	30-31.01.2020	Luxemburg	workshop on research workflows using digitised newspapers		Digital Humanities Researchers	Workshop	Impresso Workshop	E.Pfanzelter (UIBK-ICH), S.Oberbichler (UIBK-ICH), J. Marjanen (UH-DH)	Invited to present/contribute	6
71	01.02.2020	La Rochelle, France	Journée Portes Ouvertes		Open event		Presentation: NewsEye project and Named Entity Recognition and Linking	E. Linhares Pontes, A. Hamdi (ULR)		All, focus on WP3

72	03.02.2020	Paris, France	The DHAI Seminar: When Digital Humanities Meet Artificial Intelligence	https://dhai-seminar.github.io/		Seminar		JP Moreux (BNF)		
73	06-07.02.2020	University of Innsbruck, Austria	Transkribus User Conference	https://read.transkribus.eu/events/transkribus-user-conference-2020/	Computer science researchers					
74	03-04.03.2020	Kotka, Finland	Beneath the Red Waves: Project Workshop at the Maritime Centre Vellamo		Museum curators, historians	Seminar/talk	How digitalization changes history and historical research	J. Marjanen (UH)	Invited to present	6, 7
75	02-06.03.2020	Paderborn, Germany	DHd2020	https://dhd2020.de/programm/	Digital Humanities Researchers	Conference	Presentation: „What’s in the news? (Erfolgs-)Rezepte für das wissenschaftliche Arbeiten mit digitalisierten Zeitungen“	S.Oberbichler (UIBK-ICH)	Invited to present	6
76	19.03.2020	Helsinki, Finland	Research Seminar in Language Technology	https://blogs.helsinki.fi/language-technology/research-seminar/	Computer Science Researchers	Seminar	Presentation: Detection of word meaning shifts	L. Pivovarova (UH-CS)	Invited to present	4, 6
77	16-18.04.2020 (online)	Innsbruck, Austria	13. Österreichischer Zeitgeschichtetag 2020	https://www.uibk.ac.at/zeitgeschichte/zgt20/index.html	Humanities Researchers	Conference	Presentation: “Amerikamüde” – Die Rückkehr von Amerika-Auswander*innen nach Österreich zwischen 1850 und 1950	S. Oberbichler (UIBK-ICH)	Invited to present	6

78	16-18.04.2020	Innsbruck, Austria	13. Österreichischer Zeitgeschichtetag 2020	https://www.uibk.ac.at/zeitgeschichte/zgt20/index.html	Humanties Researchers	Conference	Presentation: Nation-building & Newspapers – panel on nationalism and digital newspapers together with Jani Marjanen & Ruben Ros (Chair: Eva Pfanzelter)	S. Hechl (UIBK-ICH)	Invited to present	6
79	16.-18.04.2020	Innsbruck, Austria	13. Österreichischer Zeitgeschichtetag 2020	https://www.uibk.ac.at/zeitgeschichte/zgt20/index.html	Humanties Researchers	Conference	Presentation: The expansion of the national imaginary in the long nineteenth century	J. Marjanen (UH)	Invited to present	6
80	16.04.2020	Lisbon, Portugal	ECIR (European Conference on Information Retrieval)	https://ecir2020.org/	Computer Science Researchers	Conference	Demo: Personal Research Assistant for Online Exploration of Historical News	L. Pivovarova, A. Jean-Caurant (ULR)	System demonstration + paper	5, 7

81	23-24.04.2020 (online)	Lausanne, Switzerland	Digitised newspapers - a new Eldorado for historians ?	https://impresso-project.ch/news/2019/06/12/WS5-CfP.html	Digital Humanities Researchers	Conference	Presentation: Challenges and Pitfalls when working with Digital Newspaper Collections - an Example on the Topic "Return Migration" and the AustriaN Newspapers Online (ANNO) Platform	S. Oberbichler (UIBK-ICH)	Invited to present	6
82	22-23.04.2020 (online)	Lausanne, Switzerland	EIDORADO	https://impresso-project.ch/news/2019/06/12/WS5-CfP.html	Humanities Research, Newspaper Reserach	Conference	Presentation: Intersecting, crossing the Emperor's Desk	M.Gasteiner (UNIVIE)	Invited to present + paper	6
83	27.05-05-06.2020	Helsinki, Finland	DH Hackathon 2020	https://www.helsinki.fi/en/helsinki-centre-for-digital-humanities/helsinki-digital-humanities-hackathon			Hackathon	M. Tolonen (UH-DH)		
84	28.05.2020	Helsinki, Finland	Research Seminar in Language Technology	https://blogs.helsinki.fi/language-technology/research-seminar/	Computer Science Researchers	Seminar	Presentation: Detection of word meaning shifts	L.Pivovarova (UH-CS)	Invited to present	4,5
85	28.05.2020	Helsinki, Finland	Research Seminar in Language Technology	https://blogs.helsinki.fi/language-technology/research-seminar/	Computer Science Researchers	Seminar	Presentation: Multilingual and diachronic topic models	E.Zosa (UH- CS)	Invited to present	4, 6
86	15-19.06 2020	Zadar, Croatia	Digital humanities research methods and Fundamentals of programming for digital humanities	http://baladria.unizd.hr/	Digital Humanities Researchers	Summer school	Background and exercises with NewsEye tool	A. Doucet (ULR) + A. Jean-Caurant (ULR) - tbc	Invited to present	All

87	20-25.07.2020	Ottawa, virtual	Digital Humanities conference	https://dh2020.adho.org/		Conference	NewsEye project presentation	M. Tolonen (UH-DH)	Paper presentation	All, focus on WP6
88	01-05.08.2020	Wuhan-China, virtual	JCDL conference (top conference in digital libraries)	https://2020.jcdl.org/	Digital libraries	Conference	2 short papers and 1 demo to be presented	A. Jean-Caurant, H. Nguyen, E. Linhares Pontes, A. Doucet (ULR)	Paper presentation	All, focus WP3, WP7
89	25-27.08.2020	Lyon-France, virtual	TPDL conference (European conference in digital libraries)	http://eric.univ-lyon2.fr/adbis-tpdl-eda-2020/tpdl/	Digital libraries	Conference	1 long paper to be presented	A. Hamdi, A. Doucet (ULR)	Paper presentation	All, focus on WP3
90	23.09.2020	Thessaloniki-Greece, virtual	CLEF conference (and HIPE competition)	https://clef2020.clef-initiative.eu/ and https://impresso.github.io/CLEF-HIPE-2020/Online-Workshop	Computer Science Researchers	Conference	1 long paper to be presented (winning approach of CLEF HIPE 2020)	E. Boros, E. Linhares-Pontes (ULR)	Paper presentation	All, focus on WP3
91	29.09.2020	Helsinki-Finland, virtual	Meeting of the AI group of Finnish organisations		Memory organisations AI	Meeting	NewsEye project presentation	M. Kaukonen (UH-NLF)	Invited to present	All
92	07-11.10.2020	La Rochelle, France	Fête de la science (science days)	https://www.fetedelascience.fr/	General public and school pupils		Posters, demos, talks on IA for DH	All ULR team	Presentation (demo, posters, talks)	All

93	08-09.10.2020	Pragser Wildsee, Italy	7. ZeitgeschichtsTag e Pragser Wildsee	tbd	General public and teachers	Conference and teacher training	Presentation: "Deserteur Lindemann in Berlin gefasst! Über die Herausforderungen der Recherche von Widerstand und Opposition in der (deutschsprachigen) Presse der Zwischen-/Kriegszeit"	E. Pfanzer (UIBK-ICH)	Invited to present	6, 7
94	20-23.10.2020	Riga, Latvia	DHN (Digital Humanities in the Nordic Countries)	http://dig-hum-nord.eu/conferences/dhn2020/	Digital Humanities Researchers	Conference	Presentation: Can umlauts ruin your research in digitized newspaper collections? A NewsEye Case Study on 'the dark sides of war' (1914-1918)	B. Klaus (UIBK-ICH)	Invited to present + paper	6

95	20-23.10.2020	Riga, Latvia	DHN (Digital Humanities in the Nordic Countries)	http://dig-hum-nord.eu/conferences/dhn2020/	Digital Humanities Researchers	Conference	Presentation: Digging Deeper into the Finnish Parliamentary Protocols – Using a Lexical Semantic Tagger for Studying Meaning Change of Everyman's Rights (allemansrätten)	K. Kettunen (UH-NLF)	Invited to present + paper	
96	20-23.10.2020	Riga, Latvia	DHN (Digital Humanities in the Nordic Countries)	http://dig-hum-nord.eu/conferences/dhn2020/	Digital Humanities Researchers	Conference	Presentation: Disappearing Discourses: Avoiding anachronisms and teleology with data-driven methods in studying digital newspaper collections	J. Marjanen and M. Tolonen (UH-DH)	Invited to present + paper	6
97	13.11.2020	La Rochelle, France	Les Humanités numériques : une transdiscipline historique à La Rochelle Université	https://www.univ-larochelle.fr/actualites/les-humanites-numeriques-une-transdiscipline-historique-a-la-rochelle-universite/	Digital Humanities and Computer Science master students and researchers	Seminar/talks	Presentations: "NewsEye, towards regional newspapers" and "OCR and its automated correction"	A. Doucet, M. Coustaty (ULR)	Organiser / presenter	All

98	17.11.2020	Helsinki, Finland	Digital Tools for Popularizing Humanities Research and Teaching		Digital Humanities Researchers	Seminar/talks	Presentation	M. Tolonen (UH-DH)	Invited to present	6
99	19-20.11.2020	Dominican Republic, virtual	CoNLL 2020 (The SIGNLL Conference on Computational Natural Language Learning)	https://www.conll.org/2020/#program	Computer Science Researchers	Conference	1 long paper to be presented	E. Boros, E. Linhares-Pontes (ULR)	Paper presentation	3
100	26.11.2020	Helsinki-Finland, virtual	Finnish Center for AI (FCAI) AI Day	https://fcai.fi/ai-day-2020	Computer Science Researchers	Seminar/talks	Presentation: Multilingual dynamic topic model	E. Zosa (UH-CS)	Invited to present	4
101	25-27.11.2020	Virtual	4th Workshop on Natural Language for Artificial Intelligence co-located @ AIXIA conference	http://sag.art.uniroma2.it/NL4AI/workshop-program-2/	Computer Science Researchers	Workshop	1 long paper to be presented	N.K. Nguyen (ULR)	Paper presentation	3
102	30.11-01.12.2020	Seoul-South Korea, virtual	The 22nd International Conference on Asia-Pacific Digital Libraries (ICADL 2020)	https://icadl.net/icadl2020/	CS and DL	Conference	1 long paper and 1 short paper to be presented	E. Linhares Pontes, A. Hamdi (ULR)	Paper presentation	3
103	08-13.12.2020	Barcelona-Spain, virtual	The 28th International Conference on Computational Linguistics (COLING)	https://coling2020.org/	Computer Science Researchers	Conference	1 long paper	(S.Mutuvi, - not NewsEye) E. Boros, A. Doucet (ULR)	Paper presentation	3
104	11.12.2020	Helsinki, Finland	Heldig Summit 2020	https://www2.helsinki.fi/en/helsinki-centre-for-digital-humanities/heldig-digital-humanities-summit-2020	Digital Humanities Researchers	Seminar/talks	3 presentations	M. Tolonen (UH-DH)	Presentation (demo, posters, talks)	6

105	26.11.2020	Budapest-Hungary, virtual	9th Budapest Visual Learning Conference	https://www.vll.bme.hu/en/9thvllconference/#about	Digital Humanities Researchers	Conference	1 long paper	S. Oberbichler (UIBK-ICH)	Paper presentation	6, 7
106	10-15.01.2021	Milan, Italy	25th International Conference on Pattern Recognition	https://www.micc.unifi.it/icpr2020/	Computer Science Researchers	Conference / Competition		B. Laasch (UROS), M. Weidemann (UROS), J. Michael (UROS), R. Labahn (UROS)	Presentation of the competition results	2
107	20.01.2021	Rio de Janeiro, Brazil	III Encontro Acadêmico PPG-CCOMP	https://iiiencontro.ccomp.me.uerj.br/	Computer Science	Seminar		E. Linhares Pontes (ULR)		3
108	26.01.2021	Montpellier, France	DL for NLP workshop at 21ème édition de la conférence (extraction et gestion des connaissances)	https://www.dl-nlp-egc2021.ml/programme_1	Computer Science	Workshop	Keynote, in French ("Analyse sémantique de contenus textuels dégradés")	A. Doucet (ULR)	Invited keynote	All, focus on WP3
109	01.02.2021	La Rochelle, France	Journée Portes Ouvertes		Open event		Presentation: NewsEye project, platform and Named Entity Recognition and Linking	E. Linhares Pontes + A. Hamdi + A. Jean-Caurant + A. Doucet (ULR)		All, focus on WP3
110	01.02.2021	Helsinki, Finland	Presentation for students at Digital Humanities Masters' course	-	Digital Humanities Students	Course	The expansion of isms: a use case of collaboration between historians and computer scientists	J. Marjanen, L. Pivovarova, E. Zosa (UH)	Invited keynote	6

111	22.02.2021	USA, virtual	Text Analysis Conference 2020 (postponed to early 2021)	https://tac.nist.gov/2020/workshop/tac2020.agenda.html		Conference	Paper presentation: "Transformer-based Methods for Recognizing Ultra Fine-grained Entities (RUFES)"	E. Boros (ULR)	Paper presentation	3
112	23.02.2021	Tampere-Finland, virtual	Presentation for students at the University of Tampere	-	Information Science students	Course	Presentation: NewsEye project, NLF digitized materials, students to take an online course assignment 8th-17th March	M. Kaukonen (NLF)	Invited presentation	7
113	25.03.2021	Virtual	Renforcer les compétences d'accompagnement à l'Europe et à l'international en SHS	https://augeo-shs.moodle.school/mod/page/view.php?id=1	Administrative staff, project managers	Conference	Presentation and QA on project coordination and impact	A. Doucet (ULR)	talk	8
114	06.04.2021	Bordeaux, France	Session d'information sur les programmes européens 2021-2027	https://www.adina.fr/actualites/sessions-dinformations-sur-les-programmes-europeens-2021-2027.html https://www.youtube.com/watch?v=GhOb_grep4&ab_channel=ADINouvelle-Aquitaine		Round table	Giving feedback and tips on joining EU proposals to an industrial audience of the Nouvelle Aquitaine region	A. Doucet (ULR)	round table	8

115	09.04.2021	Virtual	Smart urban coastal sustainability days	https://apps.univ-lr.fr/cgi-bin/WebObjects/Colloque.woa/wa/colloque?code=2542	Researchers, multiple fields	Conference	Presentation to researchers of the EU-CONEXUS European university	A. Doucet (ULR)	Talk	All, focus on WP3
116	05-07-05.2021	La Rochelle, France	SAGEO'2021, 16th Spatial Analysys and GEOmatics Conference, conference	https://apps.univ-lr.fr/cgi-bin/WebObjects/Colloque.woa/wa/menu?code=2641&idMenu=10583&lang=en	Computer Science, Geography, Digital Humanities Researchers	Conference (national)	Invited keynote	A. Doucet (ULR)	Invited keynote	All, focus on WP3
117	28.03-01.04.2021	Virtual	The 43rd European Conference on Information Retrieval	https://www.ecir2021.eu/	Computer Science Researchers	Conference (international)	Event Detection with Entity Markers	A. Doucet (ULR), E. Boros (ULR)		
118	19-23.04.2021	Virtual	The 16th Conference of the European Chapter of the Association for Computational Linguistics	https://2021.eacl.org/		Conference (international)		Lidia Pivovarov (UH-CS)		
119	16.03.2021	Virtual	NewsEye Conference	https://www.newseye.eu/wpip21/conference-programme/day-1-16-march-2021/	Digital Humanities & Computer Science Researchers	Conference (international)	Presentation: Corpus Building Meets Text Mining: The creation of a topic-specific newspaper corpus on the topic of return migration using LDA and JSD	S. Oberbichler (UIBK-ICH)	Talk	All

120	16.03.2021	Virtual	NewsEye Conference	https://www.newseye.eu/wpip21/conference-programme/day-1-16-march-2021/	Digital Humanities & Computer Science Researchers	Conference (international)	How Finnish was Finland's First Newspaper	J. Marjanen (UH-DH)	Talk	All
121	15.04.2021	Grenoble-France, virtual	CORIA 2021	http://coria.assoria.org/2021/	Computer Science	Conference (international)	Atténuer les erreurs de numérisation dans la reconnaissance d'entités nommées pour les documents historiques	E. Boros, A. Hamdi, E. Linhares Pontes, L.A. Cabrera-Diego, J.G. Moreno, N. Sidère, A. Doucet (ULR)	Paper presentation	All, focus on WP3
122	15.04.2021	Grenoble-France, virtual	CORIA 2021	http://coria.assoria.org/2021/	Computer Science	Conference (international)	Étude comparative de méthodes de classification multilingue appliquées à l'épidémiologie	E. Boros, A. Doucet (ULR)	Paper presentation	All, focus on WP3
123	13.04.2021	Virtual	NewsEye Workshop	https://www.newseye.eu/user-workshop/save-the-date/	All	Workshop	NewsEye Case Studies	E. Pfanzelter (UIBK)	Presentation and hand-on	All
124	13.04.2021	Virtual	NewsEye Workshop	https://www.newseye.eu/user-workshop/save-the-date/	All	Workshop	A Digital History Workflow - Emigration and economic benefits/advertising between 1850 and 1950.	S. Oberbichler (UIBK)	Presentation and hand-on	All

125	13.04.2021	Virtual	NewsEye Workshop	https://www.newseye.eu/user-workshop/save-the-date/	All	Workshop	Hands-on: External use of NewsEye-corpora / Voyant Tools	E. Pfanzer (UIBK)	Presentation and hand-on	All
126	13.04.2021	Virtual	NewsEye Workshop	https://www.newseye.eu/user-workshop/save-the-date/	All	Workshop	Hands-on: Jupyter Notekooks: Discover media discourse in Spanish flu coverage with diachronic bi-gram clouds and topic modeling.	S. Oberbichler (UIBK)	presentation and hand-on	All
127	19.05.2021	Helsinki-Finland, virtual	Presentation of DH to the board of directors of University of Finland (including aspects of NewsEye)		University board of directors	Seminar / online event		M. Tolonen (UH-DH)	Presentation	6
128	19-28.05.2021	Virtual	Digital humanities hackathon 2021 in Helsinki (online)	https://www2.helsinki.fi/en/helsinki-centre-for-digital-humanities/helsinki-digital-humanities-hackathon-2021-dhh21	computer science and humanities students	Hackathon / workshop	Group work for eight days on a selected topic	J. Marjanen (UH-DH), M. Tolonen (UH-DH), Lidia Pivovarov (UH-CS)	Presentations, teaching, group work	All WPs, focus on WP6, WP4
129	01-02.06.2021	Leuven-Belgium, virtual	10th Lectio conference	https://theo.kuleuven.be/en/general/calendar/10th-lectio-conference	Digital Humanities Researchers	Conference (international)	Digital Humanities and Digital Text Editing	M. Tolonen (UH-DH)	Invited talk	6

130	01-02.06.2021	Virtual	NoDaLiDa 2021	https://nodalida2021.github.io/	Computer Science and computational linguistics researchers	Conference (international)	Presentation: A Baseline Document Planning Method for Automated Journalism	L. Leppänen (UH-CS)	Paper presentation	5
131	09.06.2021	Vienna-Austria, virtual	Workshop ONB-Labs-UIBK-ICH		Librarians	Workshop	NewsEye WP6: Digital Humanities Applications and Uses	E. Pfanzelter (UIBK), S. Oberbichler (UIBK)	Invited talk	All
132	28.06-02.07.2021	Lille-France, virtual	TALN 2021	https://talnrecital2021.inria.fr/	Computer Science	Conference (national)	Intérêt des modèles de caractères pour la détection d'événements	E. Boros (ULR)	Paper presentation	All, focus on WP3
133	23-25.06.2021	Saarbrücken-Germany, virtual	NLDB 2021	http://nldb2021.sb.dfki.de/	Computer Science	Conference (international)	The Importance of Character-Level Information in an Event Detection Model	E. Boros (ULR)	Paper presentation	All, focus on WP3
134	22-24.06.2021	Virtual	2021 IIIF Annual Conference	https://iiif.io/event/2021/annual_conference/	Computer Science, Digital Humanities Researchers, Digital Libraries	Conference (international)	IIIF for Interoperability and Dissemination of Research Results: The NewsEye European Project Use Case	J.P Moreux (BNF), Nejma Omari (UMPV), A. Jean-Caurant (ULR), G. Michez (BNF)	Invited presentation	All

135	30.06.2021	Virtual	International Federation for Public History	https://ifph.hypotheses.org/	Digital Humanities Researchers	Online Event	Presentation: Use and re-use of digital historical newspapers: the NewsEye project in practice	S. Oberbichler/E. Pfanzelter (UIBK-ICH)	Invited presentation	
136	25.06.2021	Lancaster-England, virtual	Digital Humanities Hangout	https://www.lancaster.ac.uk/history/events/digital-humanities-hangout-dr-sarah-oberbichler	Digital Humanities Researchers	Online Event (University of Lancaster)	Presentation: Digital Methods for Corpus Building: Tracing Migration Discourses in Historical Newspapers	S. Oberbichler (UIBK-ICH)	Invited presentation	
137	07.07.2021	Rotterdam-Netherlands, virtual	Doing digital history: Critical approaches to your data – Huizinga Summer School @EUR		Digital Humanities Researchers	Summer school (with some parts online)	Lecture: "History and the digital: New methods as freedom and as restraint"	J. Marjanen (UH-DH)	Invited keynote lecture	6
138	12.07.2021	Virtual	EU-CONEXUS Day of Digital Humanities	https://www.eu-conexus.eu/en/events/eu-conexus-day-of-digital-humanities/	Digital Humanities Researchers	Online event	Presentation: Robust and multilingual analysis of digitised documents - a use case with historical newspapers	A. Doucet (ULR)	Invited presentation	All
139	26-30.07.2021	Zadar-Croatia & virtual (hybrid)	EU-CONEXUS PhD Summer School	https://www.eu-conexus.eu/en/phd-summer-school/	PhD researchers, multiple fields	Seminar / online event	Interdisciplinarity in research: practical examples	A. Doucet (ULR)	Invited presentation	All

140	01-03.09.2021	Virtual	RANLP 2021	https://ranlp.org/ranlp2021/start.php	Computer Science	Conference (international)	Presentation: Insights into comment moderation from a topic-aware model	E. Zosa (UH)	Paper presentation	4
141	13-17.09.2021	Virtual	TPDL 2021	http://www.tpd1.eu/tpdl2021/						
142	07.09.2021	Lausanne/Fribourg & virtual (hybrid)	ICDAR 2021	https://icdar2021.org/	Computer Science	Conference (international)	NewsEye Tutorial	A. Doucet, A. Jean-Caurant (ULR), R. Labahn, J. Michael, M. Weidemann (UROS), J.P. Moreux (BNF), Günter Mühlberger (UIBK)	Tutorial	All
143	05-10.09.2021	Lausanne/Fribourg & virtual (hybrid)	ICDAR 2021	https://icdar2021.org/	Computer Science	Conference (international)	Poster Session: Information Extraction from Invoices	A. Doucet (ULR)	Paper presentation	All, focus on WP3
144	14.09.2021	Virtual	ADOCHS Project: Study day on Image & Data Processing in the Cultural Heritage Sector	http://adochs.be/idpchs/			Computer vision and digital libraries: feedback from the BnF	J.-P. Moreux (BNF)	Invited presentation	

145	23/09/2021	Turkey & virtual (hybrid)	invitation to Erasmus+ multiplier event (project SILVHER - Safeguarding Intangible cultural Values and HERitage)	https://www.silvher.eu/ https://www.facebook.com/silvheritage/photos/a.961180590880427/1558166191181861/		Erasmus+ multiplier event (international - European)	Invited talk: Analysing history in the present tense: Robust and multilingual analysis of historical newspapers in NewsEye	A. Doucet (ULR)	Invited presentation	All WP, focus pedagogical uses
146	30/09/2021	Virtual	JCDL 2021 (HistoInformatics2021 Workshop)	https://sites.google.com/view/histoinformatics2021workshop/home	Digital Humanities Researchers, Computer Science Researchers	Online event	TBC	E. Pfanzer (UIBK), S. Oberbichler (UIBK), L. Pivovarov (UH-CS), A. Doucet (ULR)		
147	07-10.10.2021	La Rochelle, France	Fête de la science (science days)	https://www.fetedelascience.fr/	General public and school pupils		Posters, demos, talks on IA for DH	All ULR team	Presentation (demo, posters, talks)	All
148	07.10.2021	Helsinki-Finland, virtual	SAB Faculty of Arts		SAB	Presentation	Invited talk of ongoing digital humanities research	M. Tolonen (UH-DH)	invited presentation	6
149	14.10.2021	Virtual	Time Machine Academy: IIIF: Open standards for interoperable functionality in digital asset repositories	https://www.timemachine.eu/events/iiif-open-standards-for-interoperable-functionality-in-digital-asset-repositories/			IIIF as a service for researchers: Feedback from the Bibliothèque nationale de France	J.-P. Moreux (BNF)	Invited presentation	

150	15.10.2021	Hanoi-Vietnam, virtual	4th international conference on multimedia and pattern recognition (MAPR 2021)	https://mapr.uit.edu.vn/keynote-speakers	Computer Science	Conference	Keynote talk	A. Doucet (ULR)	Invited presentation	All, focus on WP3
151	15.10.2021	Zadar-Croatia & virtual (hybrid)	Digital Humanities and Heritage, 1st DARIAH-HR International Conference	https://dhh.dariah.hr/en/home/	Digital Humanities Researchers	Conference	Invited talk	A. Doucet (ULR), A. Jean-Caurant (ULR)	Invited presentation	All, focus on WP3
152	21.10.2021	Hanoi-Vietnam, virtual	Artificial Intelligence and Humanity - The Multidimensional Impacts of a Technology Revolution	http://ifi.edu.vn/en/news/DAS-2021/Artificial-Intelligence-and-Human-The-Multiplied-Impacts-of-a-Technology-Revolution-392.html	Digital Humanities Researchers, Computer Science Researchers	Seminar / invited talks	Invited talk	A. Doucet (ULR)	Invited presentation	All WPs, focus on WP7
153	24-28.10.2021		ISWC 2021				Demo: Event Related Document Retrieval with Multilingual Read World Event Representation			
154	01-02.11.2021	Oslo, Norway	Nordic AI Meet	https://nordicaimeet.com/	Computer Science	PhD symposium	Poster session: Insights into Comment Moderation from a Topic-aware Model	E. Zosa	poster	4
155	10-11.11.2021		CONLL 2021				Grammatical Profiling for Semantic Change Detection	L. Pivovarov		4

156	01-03.12.2021	Virtual	ICADL 2021	https://icadl.net/icadl2021/	Computer Science, Digital Humanities	Conference (international)	Presentation: Evaluating the Robustness of Embedding-based Topic Models to OCR Noise	E. Zosa (UH), A. Doucet (ULR), S. Mutuvi (ULR), M. Granroth-Wilding (UH)	Paper presentation	4
157	09-11.11.2021	Prague, Czech Republic	Bibliographic Data Group meeting	DARIAH	Digital Humanities Researchers	Seminar / invited talks	Invited talk discussing NewsEye's connection to bibliodata	M. Tolonen (UH-DH)	Invited presentation	6
158	11-12.11.2021	Virtual	DARIAH-DE (UIBK presentation), Korpusbildung-Workshop der AG Zeitungen und Zeitschriften	https://dhd-blog.org/?p=16557	Digital Humanities Researchers	Workshop	Invited talks	S. Oberbichler (UIBK), E. Pfanzelter (UIBK)	Co-organized workshop	All WPs, focus on WP6
159	24.11.2021	Virtual	ÖNB Labs Symposium	https://labs.onb.ac.at/en/topic/symposium-2021/	Librarians, Digital Humanities Researchers	Symposium	The digital cliff of death and the digital dark decades: the challenges for teaching and researching contemporary history	E. Pfanzelter (UIBK)	Invited presentation	All
160	24.11.2021	Virtual	ÖNB Labs Symposium	https://labs.onb.ac.at/en/topic/symposium-2021/	Librarians, Digital Humanities Researchers	Symposium	Research with digitized historical newspapers in practice: challenges, methods and collaboration	S. Oberbichler (UIBK) together with Nina Hechenblaikner	Invited presentation	All

161	01-03.12.2021	Vilnius, Lithuania	Theatrum Libri	https://www.lnb.lt/en/news/7968-theatrum-libri-a-three-day-international-conference-has-concluded	Digital Humanities Researchers	International conference	Keynote talk	M. Tolonen (UH-DH)	Invited presentation	WP6
162	08.12.2021	Virtual	EMBEDDIA Conference: AI Technology for the Media Industry	http://embeddia.eu/conference/						
163	10.12.2021	Paris, France	Les futurs fantastiques - Fantastic Futures Conference	https://www.bnf.fr/en/les-futurs-fantastiques				A. Maunoury (BNF), J.-P. Moreux (BNF)	Non-scientific poster	All
164	07.12.2021	Virtual	NewsEye User Workshop	https://www.newseye.eu/user-workshop/newseye-user-workshop-december-2021/	All	Workshop	External use of NewsEye-corpora / Voyant Tools	E. Pfanzelter (UIBK)	Invited presentation	All
165	07.12.2021	Virtual	NewsEye User Workshop	https://www.newseye.eu/user-workshop/newseye-user-workshop-december-2021/	All	Workshop	External use of NewsEye-corpora / Jupyter Notebooks	S. Oberbichler (UIBK)	Invited presentation	All
166	14.12.2021	Virtual	MediaEval 2021 workshop	https://multimediaeval.github.io/editions/2021/	Computer Science	Workshop	Presentation: visual topic modelling	E. Zosa (UH-CS), L. Pivovarov (UH-CS)	Paper presentation	4
167	10-14.04.2022	Stavanger, Norway	44th European Conference on Information Retrieval (ECIR 2022)	https://ecir2022.org/			2 papers to be presented, one of WP4, one of WP3	Elaine Zosa (UIBK), Emanuela Boros (ULR)	Paper presentation	3,4,7
168	13-17.06.2022	Zadar, Croatia	The second Baltic-Adriatic Summer School on Digital Humanities	http://baladria.unizd.hr/		Summer school		Antoine Doucet (ULR), Axel Jean-Caurant (ULR)	Invited presentation	All, notably WP7

169	17-22.07.2022	Dagstuhl, Germany	Computational Approaches for Digitized Historical Newspapers	https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=22292				Many	Workshop organisation	All
170	5-8.09.2022	Bologna, Italy	Identifying Historical People, Places and other Entities (HIPE)	https://hipe-eval.github.io/HIPE-2022/	Computer Science	Conference		Antoine Doucet (ULR)	Shared task organisation	WP3
171	11-16.09.2022	Fréjus, France	Nouvelles méthodes pour la fouille et l'analyse des corpus textuels		DH engineers and researchers	Summer school		Antoine Doucet (ULR), Axel Jean-Caurant (ULR)	Invited presentation	All, notably WP7