DIGITAL SUSTAINABILITY REVIEW OF HLF-FUNDED PROJECTS

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1. Purpose

As part of the activities undertaken by the AHRC-funded Living Legacies 1914-18 Engagement Centre, Information Studies at the University of Glasgow has reviewed a sample of HLF-funded community projects across the UK, which met the following criteria:

- The subject matter focused on commemoration of the First World War centenary.
- The work of activities undertaken produced any kind of community-generated digital content, either as primary or secondary output.

This report documents the aims and objectives, scope, methodology and results of the review.

2. Aims and Objectives

The aim of this review was to assess the digital sustainability of the projects against the *Sustainability of Digital Resources Framework* (SDRF, see D3.2.1), in order to both to create a use case of an SDRF implementation; and use its results to better understand the picture of the digital sustainability landscape of community projects.

The objectives of the review have been identified as follows:

- To identify a sample of suitable HLF-funded projects that meet the criteria set out in the Purpose statement.
- To use the SDRF as a platform for assessing the digital sustainability of communitygenerated content, by formulating data collection instruments that adhere to the principles and methods recommended by the Framework.
- To develop a methodology for producing digital sustainability scores (per SDRF Dimension, and overall) that can be used as a gauge of the extent to which digital sustainability requirements are met by individual projects.
- To report on assessment results across all projects, as a means to showcase the current status quo of digital sustainability adoption in community projects; and as an initial mapping of the digital sustainability landscape.

3. Methodology

3.1. Data collection

In order to complete this review, we re-used an excerpt of data originally collected via a survey administered by our colleagues at the Centre for Data Digitisation and Analysis (CDDA) in Queen's University Belfast. The original purpose of the survey was to identify digital materials created by HLF-funded projects, asking participants to identify whether their projects had created any digital artefacts or resources – including both materials published online and any other electronic content that was generated during the course of the project (such as PowerPoint presentations). The survey questions featured in the data excerpt used for this review are available in Appendix I.

In total, 41 projects across the UK were examined that varied in size, scale, funding received, scope and types of digital output produced. The original dataset collected by CDDA was enriched with further data collected through direct observation of resources produced by the community projects examined; desk research; and automated data collection via analytics tools (especially for the Technology dimension).

3.2. Data analysis across all projects

To evaluate digital sustainability across all reviewed projects, the enriched dataset was used to populate the questionnaire in Appendix II per project. The resulting dataset across all projects was analysed in SPSS.

The questionnaire's structure and question design are based on the SDRF, and – as per the Framework's cardinality and flexibility specifications – use a subset of indicators and metrics that were deemed most suitable both for the purposes of this review and the nature of the original CDDA dataset. Specifically, the following set of criteria, indicators and metrics per Dimension were used:

| SDRF DIMENSION | CRITERIA | INDICATORS | METRICS |
|-------------------|-----------|---------------------------|-----------------------------|
| | Currency | Updates | Current status |
| | Relevance | Project objectives | All |
| | | Project history / context | All |
| | | Audience | All |
| CONTENT Authority | | Value | All |
| | Authority | Organisation details | All |
| | | Ownership | All |
| | Partners | All | |
| | | Agreements | Funding agreement specified |
| Quality | | Ongoing support | All |
| | Quality | Availability and location | All |

| SDRF DIMENSION | CRITERIA | INDICATORS | METRICS |
|----------------|--------------------------------|------------------------------|---------|
| | Implementation and Development | Platform | |
| | Maintenance | Responsibility | All |
| TECHNOLOGY | | Planning | All |
| | Findability and Optimisation | Searching ¹ | All |
| | | Green ² | All |
| | Ongoing support | Funding | All |
| | | Staff | All |
| PRESERVATION | Best practice | Documentation | All |
| | | File formats | All |
| | | Web harvesting and archiving | All |
| | IPR | Copyright | All |
| | | Disclaimer | All |
| PROMOTION | Events | | All |
| | Documents | | All |
| | Social media | | All |
| | Public media | | All |

Table 1: SDRF Criteria, indicators and metrics used in review

3.3. Digital Sustainability scores

To further elucidate the current digital sustainability landscape, a "digital sustainability scoring system" was devised, whereby each metric is attributed a set of scores depending on each reviewed project's level of adherence to the SDRF sustainability criteria. The scoring system can be consulted in the Table 2, while a typical scoring card is available in Appendix III.

The scoring system is underlined by the following principles:

- The magnitude of the scores reflects the extent to which sustainability requirements are met. For instance, the criteria on the current status of content types are scored 2 points if a content type is maintained (kept in secure storage or archived, which is the most sustainable); 1 point if the content is publicly available (e.g. on a website but not maintained in a secure environment, which is less sustainable) and -1 points if the content type is not maintained (neither publicly available nor securely stored, which is unsustainable).
- A score of 0 denotes that a criterion is not applicable. For instance, for a project that did not generate any 3D content, a score of 0 was given for the criterion on sustainability of 3D content, which excludes it from the calculation of the total score for the Content dimension. Since this criterion is not applicable, the maximum possible score for Content is reduced from 31 to 29 (i.e. minus 2 max points that would have been awarded if 3D had been generated) so that it is excluded from the calculation of the score out of 100.

¹ Keyword optimisation and SEO were analysed separately using the SEO Site Checkup online tool, see: https://seositecheckup.com/

² Green optimisation was analysed separately using the Ecograder online too, see: https://ecograder.com/

• The total sustainability score for each project across all four dimensions is expressed as out of 100 (i.e. as a percentage). To calculate this, the score/100 for each dimension is weighted by 25% - each dimension contributes equally to the total.

SDRF DIMENSION **CRITERIA INDICATORS METRICS SCORE** Currency Updates Project status Active: 1 Completed: 1 Undefined: 0 Current status: Maintained: 2 digital object types Public (online): 1 Not maintained: -1 N/A: 0 Αll Publicly Available: 2 Relevance Project objectives Recorded but not publicly available: 1 Project history / context Αll N/A: 0 Audience ΑII Value Αll CONTENT Authority Organisation details ΑII Ownership ΑII ΑII Partners Agreements Funding agreement specified Ongoing support Αll Quality Availability and location Αll Digital archive: 2 Project website: 1 Physical location: 1 Before project closure: 1 None: -1 Entirely: 2 Implementation and Platform Open tech used Development Partly: 1 No: -1 Maintenance Responsibility Αll N/A: 0 ΑII Planning Αll Findability and Searching³ Total rating of **TECHNOLOGY** Optimisation 75-100%: 4 Green⁴ Αll 50-75%: 3 25-50%: 2 1-25%: 1 0%: -1 N/A: 0 Ongoing support Funding Αll Ongoing support fully secured: 2 Ongoing support partly secured: 1 Staff Αll Ongoing support not secured: -1 **PRESERVATION** Best practice Documentation Αll Meets best practice Entirely: 2 Αll File formats Partly: 1 No: -1 N/A: 0

³ Keyword optimisation and SEO were analysed separately using the SEO Site Checkup online tool, see: https://seositecheckup.com/

⁴ Green optimisation was analysed separately using the Ecograder online too, see: https://ecograder.com/

| SDRF DIMENSION | CRITERIA | INDICATORS | METRICS | SCORE |
|---------------------|--------------|------------------------------|-------------|--|
| DIMENSION | CRITERIA | ſ | IVIE I RICS | ı |
| | | Web harvesting and archiving | All | Digital content archived Entirely: 2 Partly: 1 No: -1 N/A: 0 |
| | IPR | Copyright | All | IPR criterial met |
| | | Disclaimer | All | Entirely: 2 Partly: 1 No: -1 N/A: 0 |
| | Events | All | | Digital content promoted via channel |
| PROMOTION Documents | Documents | All All | | Yes: 2 No, but planned: 1 No: -1 |
| PROMOTION | Social media | | | |
| | Public media | All | | N/A: 0 |

Table 2: scoring system

4. Results

4.1. Results across all projects

The following sections present the digital sustainability review results across all projects examined. The results are presented following the order and structure in Table 2. All figures express valid percent.

1.4.1. CONTENT SUSTAINABILITY

Currency → Current status of project

| Completed | 97.6% |
|-----------|-------|
| Active | 2.4% |
| Total | 100.0 |

Currency → Current status of digital object types

• Documents (e.g. text, spreadsheets, PowerPoint presentations)

| Neither maintained in secure storage, nor publicly available | 29.4% |
|---|-------|
| Publicly available (e.g. on website) but not maintained in secure storage | 32.4% |
| Maintained in secure storage | 38.2% |

Images and Photographs (including graphics and logos)

| Neither maintained in secure storage, nor publicly available | 27.0% |
|---|--------|
| Publicly available (e.g. on website) but not maintained in secure storage | 35.1% |
| Maintained in secure storage | 37.8% |
| Total | 100.0% |

Audio and video materials

| Neither maintained in secure storage, nor publicly available | 28.1% |
|---|--------|
| Publicly available (e.g. on website) but not maintained in secure storage | 37.5% |
| Maintained in secure storage | 34.4% |
| Total | 100.0% |

• 3D objects and models

| Neither maintained in secure storage, nor publicly available | 20.0 |
|---|-------|
| Publicly available (e.g. on website) but not maintained in secure storage | 60.0 |
| Maintained in secure storage | 20.0 |
| Total | 100.0 |

• Website / Web pages

| Neither maintained in secure storage, nor publicly available | 3.1 |
|---|-------|
| Publicly available (e.g. on website) but not maintained in secure storage | 87.5 |
| Maintained in secure storage | 9.4 |
| Total | 100.0 |

Relevance → Project objectives

| Neither available to the community nor documented by the project | 9.5 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 7.1 |
| Publicly available to the community | 83.3 |
| Total | 100.0 |

Relevance → Project history / context

| Neither available to the community nor documented by the project | 33.3 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 4.8 |
| Publicly available to the community | 61.9 |
| Total | 100.0 |

Relevance → The audience for which the digital content has been developed

| Neither available to the community nor documented by the project | 59.5 |
|--|-------|
| Publicly available to the community | 40.5 |
| Total | 100.0 |

Relevance The value that the digital content aims to provide to the community

| Neither available to the community nor documented by the project | 78.6 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 2.4 |
| Publicly available to the community | 19.0 |
| Total | 100.0 |

Authority → Details of the organisation responsible for content development

| Neither available to the community nor documented by the project | 4.8 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 4.8 |
| Publicly available to the community | 90.5 |
| Total | 100.0 |

Authority → Information about the ownership of the digital content

| Neither available to the community nor documented by the project | 61.9 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 2.4 |
| Publicly available to the community | 35.7 |
| Total | 100.0 |

Authority \rightarrow Information about external stakeholders and partners that have been involved in its development and maintenance

| Neither available to the community nor documented by the project | 31.0 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 4.8 |
| Publicly available to the community | 64.3 |
| Total | 100.0 |

Authority → Details of the source/body that has funded content development

| Neither available to the community nor documented by the project | 7.1 |
|--|-------|
| Not publicly available to the community, but the project has recorded it | 4.8 |
| Publicly available to the community | 88.1 |
| Total | 100.0 |

Authority → Information about support for community members requiring assistance with the digital content

| Neither available to the community nor documented by the project | 90.2 |
|--|-------|
| Publicly available to the community | 9.8 |
| Total | 100.0 |

Quality -> Is the digital content produced by the project accessible to the community?

| No, and there are no plans to make the digital content available to the community | 19.0 |
|--|-------|
| No, but the project is planning to make digital content available to the community in future | 2.4 |
| Yes, at a physical location | 11.9 |
| Yes, through a dedicated project website | 54.8 |
| Yes, via a digital repository or digital archive | 11.9 |
| Total | 100.0 |

1.4.2. **TECHNOLOGY**

Implementation and development > Does the project use open technologies for web-based digital outputs?

| No, only proprietary technologies used | 20.6 |
|---|-------|
| Partly, a combination of open and proprietary technologies used | 41.2 |
| Entirely, only open technologies used | 38.2 |
| Total | 100.0 |

Findability & Optimisation -> What is the SEO rating for web-based digital outputs?

| 26-50% | 10.0 |
|---------|-------|
| 51-75% | 40.0 |
| 76-100% | 50.0 |
| Total | 100.0 |

Findability & Optimisation → What is the Green rating for web-based digital outputs?

| 26-50% | 43.3 |
|---------|-------|
| 51-75% | 40.0 |
| 76-100% | 16.7 |
| Total | 100.0 |

1.4.3. **PRESERVATION**

Ongoing support -> Has the project identified/secured financial support for the ongoing maintenance of digital content post end-of-project?

| No | 19.0 |
|--|-------|
| No information available or the project hasn't considered this | 66.7 |
| Partly, some financial support | 9.5 |
| Entirely, full financial support | 4.8 |
| Total | 100.0 |

Ongoing support -> Has the project identified/secured staff resources for ongoing support with digital content?

| No | 16.7 |
|--|-------|
| No information available or the project hasn't considered this | 66.7 |
| Partly, some staff support | 11.9 |
| Entirely, full staff support | 4.8 |
| Total | 100.0 |

Best practice -> Does the project provide metadata or other descriptive information for its digital outputs, so that the user community can understand, interpret and discover the content?

| No | 42.9 |
|--|-------|
| No information available or the project hasn't considered this | 21.4 |
| Partly, metadata provided for some digital outputs | 23.8 |
| Entirely, metadata provided for all digital outputs | 11.9 |
| Total | 100.0 |

Best practice → Does the project use sustainable file formats for storing digital outputs?

| No | 2.4 |
|--|-------|
| No information available or the project hasn't considered this | 40.5 |
| Partly, some digital outputs stored in sustainable file formats | 28.6 |
| Entirely, all digital outputs stored in sustainable file formats | 28.6 |
| Total | 100.0 |

Best practice -> Is the project's digital content harvested and archived by a digital repository or archive?

| No | 69.0 |
|--|-------|
| Partly, only some digital content archived | 21.4 |
| Entirely | 9.5 |
| Total | 100.0 |

IPR → Has the project defined legal, legislative, contractual and/or financial reasons for keeping digital outputs for the long-term?

| No | 71.4 |
|--|-------|
| No information available or the project hasn't considered this | 21.4 |
| Partly defined | 2.4 |
| Fully defined | 4.8 |
| Total | 100.0 |

IPR → Does the project provide its user community with the terms and conditions (including copyright and licensing) that apply to access and use of the digital content?

| No | 52.4 |
|--|-------|
| No information available or the project hasn't considered this | 7.1 |
| Partly defined | 23.8 |
| Fully defined | 16.7 |
| Total | 100.0 |

1.4.4. **PROMOTION**

Public media: the project and its digital content have been publicised in public media, such as newspapers articles; television programmes; radio shows

| No | 54.8 |
|--|-------|
| No information available or the project hasn't considered this | 26.2 |
| Yes | 19.0 |
| Total | 100.0 |

Academic press: the project and its digital content have been documented in academic publications, such as journals and conference papers/posters

| No | 54.8 |
|--|-------|
| No information available or the project hasn't considered this | 21.4 |
| Yes | 23.8 |
| Total | 100.0 |

Social media: the project has a dedicated presence on social media, through which it promotes its activities and digital content

| No | 45.2 |
|--|-------|
| No information available or the project hasn't considered this | 4.8 |
| Yes | 50.0 |
| Total | 100.0 |

5. Digital Sustainability scores

A scoring card was generated for each of the reviewed projects. The individual results were then collated in a summary table (Table 3), which shows the total weighted sustainability score per project; and average sustainability scores per dimension (across all projects) – both expressed as percentages. For compliance with GDPR requirements, the names of the individual projects have been removed from the table.

| Score/100 per Dimension | | | Total | | |
|-------------------------|---------|------------|--------------|-----------|--------------------|
| Project | Content | Technology | Preservation | Promotion | Score % (weighted) |
| Project 1 | 67 | 58 | -17 | 25 | 33 |
| Project 2 | 100 | 75 | 67 | 75 | 79 |
| Project 3 | 85 | 0 | 17 | 63 | 41 |
| Project 4 | 56 | 58 | -17 | 50 | 37 |
| Project 5 | 67 | 83 | -8 | -13 | 32 |
| Project 6 | 55 | 58 | -17 | -13 | 21 |
| Project 7 | 52 | 50 | 0 | 0 | 26 |
| Project 8 | 68 | 33 | 17 | -13 | 26 |
| Project 9 | 93 | 58 | -17 | 75 | 52 |
| Project 10 | 76 | 50 | 0 | 25 | 38 |
| Project 11 | 69 | 67 | 17 | 63 | 54 |
| Project 12 | 59 | 50 | 8 | 25 | 36 |

| Duciost | Score/100 per Dimension | | | Total | |
|------------|-------------------------|------------|--------------|-----------|--------------------|
| Project | Content | Technology | Preservation | Promotion | Score % (weighted) |
| Project 13 | 74 | 33 | 25 | -13 | 30 |
| Project 14 | 66 | 58 | 0 | 25 | 37 |
| Project 15 | 70 | 75 | 33 | 25 | 51 |
| Project 16 | 59 | 25 | 17 | 75 | 44 |
| Project 17 | 59 | 42 | 0 | -13 | 22 |
| Project 18 | 67 | 67 | 33 | 25 | 48 |
| Project 19 | 60 | 50 | 33 | 0 | 36 |
| Project 20 | 69 | 50 | -25 | -50 | 11 |
| Project 21 | 59 | -17 | 17 | 25 | 21 |
| Project 22 | 31 | 42 | 0 | -13 | 15 |
| Project 23 | 52 | 58 | 17 | 13 | 35 |
| Project 24 | 52 | 50 | -8 | 100 | 49 |
| Project 25 | 79 | 33 | 25 | 100 | 59 |
| Project 26 | 52 | 58 | 8 | 0 | 30 |
| Project 27 | 28 | -8 | -25 | -50 | -14 |
| Project 28 | 59 | 83 | -8 | 0 | 34 |
| Project 29 | 83 | 75 | -8 | 25 | 44 |
| Project 30 | 84 | 50 | 25 | 0 | 40 |
| Project 31 | 19 | 58 | -33 | -13 | 8 |
| Project 32 | 3 | -17 | 0 | -50 | -16 |
| Project 33 | 4 | -50 | -42 | -13 | -25 |

| 2 | Score/100 per Dimension | | | | Total |
|---------------------|-------------------------|------------|--------------|-----------|--------------------|
| Project | Content | Technology | Preservation | Promotion | Score % (weighted) |
| Project 34 | -4 | -50 | -17 | -50 | -30 |
| Project 35 | 22 | -50 | -25 | -50 | -26 |
| Project 36 | 21 | 67 | 0 | -50 | 10 |
| Project 37 | 48 | 50 | 25 | -50 | 18 |
| Project 38 | 79 | 58 | -33 | -13 | 23 |
| Project 39 | 70 | 75 | -42 | -13 | 23 |
| Project 40 | 34 | 67 | 25 | -50 | 19 |
| Project 41 | 32 | 42 | -33 | -50 | -2 |
| AVERAGE SCORES % | 56 | 42 | 1 | 6 | 26 |

Table 3: DIGITAL SUSTAINABILITY EVALUATION of HLF-funded projects – Summary Table

Appendix I: Survey questions featured in the CDDA data excerpt

| 7 1 | | | |
|---|--|--|--------|
| 1. HLF Project Title | | | |
| 2. Organisation Name | | | |
| 3. Project web Site Address (if any) | | | |
| 4. Has your project created any digital materials? of the form, but please submit it to us so that we | · · | • | ainder |
| ☐ Yes ☐ No | | | |
| 5. Was it part of your application to HLF to create | digital outputs? | | |
| ☐ Yes ☐ No | | | |
| If appropriate, please provide further details. | | | |
| 6. Please give a brief overview of the types of ma | terials/digital assets | your project has crea | ted. |
| | How many of each would you have? i.e. Fifty photos | What file format are they? If unsure, please leave blank | |
| Images i.e. Digital photographs | | | |
| Texts i.e. Digital versions of printed text such as newspapers, articles, reports, or your project newsletters etc. | | | |
| Documents i.e. Digital versions of handwritten records such as War diaries, regimental records etc. | | | |
| Data i.e. Sets of statistical information such as numeric information in a spreadsheet | | | |
| Audio/Voice recordings i.e. Audio descriptions, ambient sounds, oral histories etc. | | | |
| Film and Video recordings i.e. Digital films/videos, captured as part of your work | | | |
| Other i.e. Any other electronic content not mentioned in this list | | | |

| Can you tell us what type of digital outputs have been created | ا from your | project? |
|---|--------------|-------------------|
| A website The use of Social Media (e.g. Facebook, Twitter, Blogs, Instagram etc.) Film and/or Video presentations Digital Maps (e.g. including Geographical Information Systems (GIS) Publications (e.g. books, articles or project leaflets) | Yes | No |
| Any other outputs (please specify) | | |
| | | |
| 8. Have you already archived any of your digital materials, and if Examples might be the Imperial War Museum, the People Collec Archives, The National Library of Scotland, and the National Library | tion of Wale | |
| 9. Have you shared digitally any of your material? Examples might be the HistoryPin Centenary Hub, Lives of the Fi or on Social Media. | rst World W | ar IWM, Europeana |
| | | |
| 10. Do you have any further comments? | | |

Appendix II: SDRF-based survey for data analysis

Digital Sustainability Evaluation Survey

This survey seeks to evaluate the digital sustainability of Community projects exploring WW1 heritage that have been funded the 'Living Legacies 1914-18' Engagement Centre. Our aim is to assess sustainability planning and implementation for digital outputs produced by your project. Your feedback will provide invaluable contribution to our understanding around the cultural value of digital investment in First World War materials; and help us make recommendations for support to projects developing and managing WW1-related content, based on the needs of your project.

Your answers will be treated as confidential and kept in secure storage (locked physical storage; password-protected devices and University user accounts) at all times. We will not share your details with any third parties, and will only use your answers for the purpose stated. Aggregate, anonymised results from the survey will be used in project reports and publications.

If you have any questions or would like further information about this work, please contact us: Dr Leo Konstantelos, University of Glasgow -- leo.konstantelos@glasgow.ac.uk
Prof. Lorna Hughes, University of Glasgow -- lorna.hughes@glasgow.ac.uk

Thank you in advance for your time and contribution.





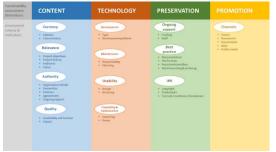
Structure of this survey

To help us evaluate the digital sustainability of your project, we have developed a Framework that consists of 4 sustainability Dimensions. Each dimension is further stratified into Assessment Criteria, Indicators and Metrics. These build on existing work from a number of projects:

- The 'Toolkit for the Impact of Scholarly Resources' (TIDSR), by JISC & Oxford Internet Institute
- The 'Sustainability of Digital Outputs' for AHRC Resource Enhancement Projects
- The 'Sustainability Health Check Tool for Digital Content Projects', by ITHAKA S+R
- The 'Guidelines for sustainable online resources: Sustainability principles for ESRC-funded online resources', by ReStore
- The 'Sustainable Web Design' guidelines, developed by MightyBytes

This survey will ask you to evaluate your project against criteria for each of the four sustainability dimensions: Content, Technology, Preservation and Promotion. You can see an overview of the criteria for the sustainability dimensions below.

Depending on the size and scale of your project, it will take between 10-20 minutes to complete the survey. The majority of the questions require simple Yes/No or multiple-choice answers. Don't worry if you are not aware of the answer for some of the questions -- you will be given the opportunity to provide contact details of a colleague that we can contact for further details at the end of the survey.



Overview of the Sustainability Framework: Dimensions and Assessment criteria

About your project

Please provide us with information about your project. We will not share these details with third parties, and your responses will be anonymised in all reports and publications.



| Which HLF-funded | community proje | ct are your respo | onses in this surv | ey associated |
|------------------|-----------------|-------------------|--------------------|---------------|
| with? | | | | |

| with? | |
|---|--|
| | |
| What is the status of this project? | |
| O Completed and closed, no more work is being carried out | |
| O Completed, but some work is still being carried out | |
| O Active, the project is still running | |

Digital Content Sustainability

In this section, you will be responding to criteria related to the DIGITAL CONTENT that the project has produced or is still producing. The criteria aim to assess whether the digital resources created by the project meet good practice for sustainability.

In the table below, tick the boxes to indicate the types of digital content that the project has produced, and the current status for each type. (Choose all that apply)

Arabiyadı na langar

| | Produced by the project | Active: currently maintained and updated | updated but maintained in computer storage (e.g. on external hard drive) | Publicly available (e.g. user community can access this type via a website) |
|---|-------------------------|--|--|--|
| Documents (e.g. text, spreadsheets, PowerPoint presentations) | | | | |
| Images and Photographs (including graphics and logos | | | | |
| Audio and video materials | | | | |
| 3D objects and models | | | | |
| Website / Web pages | | | | |

| Thinking about the project's digital content as a whole, is any of the following information available to the user community? | | | | |
|---|---|---|---|--|
| | Yes, this information is available on a website | Yes, this information is available by visiting a physical location (e.g. in brochures distributed at your organisation) | No, this information is not available to the community but the project has recorded it (e.g. in reports that are not public) | No, this information is neither available to the community nor documented by the project |
| The objectives, which the digital content has been developed to address (e.g. the project digitised photographs for online publication, which the community would not be able to easily access otherwise) | 0 | 0 | 0 | 0 |
| The context within which the digital content has been created (e.g. information about the project's background, the gaps that it is meant to fill) | 0 | 0 | 0 | 0 |
| The audience for which the digital content has been developed (e.g. for researchers, the public, family of soldiers) | 0 | 0 | 0 | 0 |
| The value that the digital content aims to provide to the community (e.g. online access to rare photographs, opportunities for research) | 0 | 0 | 0 | 0 |
| Thinking about the following informat | | | | s any of the |
| | Yes, this information is available on a website | Yes, this information is available by visiting a physical location (e.g. in brochures distributed at your organisation) | No, this information is not available to the community but the project has recorded it (e.g. in reports that are not public) | No, this information is neither available to the community nor documented by the project |
| Details of the organisation responsible for its development | 0 | 0 | 0 | 0 |
| Information about the ownership of the digital content | 0 | 0 | 0 | 0 |
| Any external stakeholders and partners that have been involved in its development and maintenance | 0 | 0 | 0 | 0 |

☐ Other, please specify

| (cont.) | | | | |
|---|---|--|--|--|
| | Produced by the project | Active: currently maintained and updated | Archived: no longer updated but maintained in computer storage (e.g. on external hard drive) | Publicly available (e.g. user community can access this type via a website) |
| Details of the source/body that has funded its development | 0 | 0 | 0 | 0 |
| Ongoing support for community members requiring assistance with the digital content (e.g. Contact details for someone to respond to user queries) | 0 | 0 | 0 | 0 |
| Is the digital cont (Choose one) | tent produced by th | ne project access | sible to the commu | unity? |
| O Yes, throug | h a dedicated projec | ct website | | |
| O Yes, via a c | ligital repository or d | igital archive | | |
| | t online (e.g. commu digital content) | ınity members ne | ed to visit a physica | l location to |
| O No, but the before its cl | project is planning to osure | o make digital cor | ntent available to the | community |
| O No, and the | re are no plans to m | ake the digital co | ntent available to th | e community |
| O Other, pleas | se specify | | | |
| Technical Susta | ainability | | | |
| In this section, you will be responding to criteria related to the TECHNOLOGY that the project has used to develop digital content. The criteria aim to assess whether the technology used by the project meets requirements for sustainability. If you don't know the answer to some of these questions, you can leave them blank and - if possible - provide a name for a contact person who is familiar with the project's technology use at the end of this survey. | | | | |
| What kind(s) of d | ligital storage medi e all that apply) | a does the proje | ct currently use to | store its digital |
| ☐ Removable | storage media (e.g. | DVDs, Blue-Ray | disks, USB memory | y sticks) |
| ☐ Portable sto drives) | orage media (e.g. lap | otops, smartphone | es and tablets, exter | rnal hard disk |
| ☐ Stand-alone | e computers (e.g. De | esktop PCs and A | pple Macs) | |
| □ Don't know | | | | |

| Does the project keep backups of the storage media where digital content is stored? |
|---|
| O Yes |
| O No |
| O Don't know |
| O Other, please specify |
| Who is responsible for maintaining the technology used by the project for storing digital content? (Choose one) |
| O A public organisation |
| O An academic institution |
| O A commercial company |
| O A repository or digital archive |
| O An individual person |
| O No responsibility has been assigned |
| O Other, please specify |
| Has a plan been developed for ensuring ongoing maintenance for the project's technology? This can include backup schedules; checks for storage integrity and virus protection; access management for authorised users; protection against physical damage and environmental hazards. (Choose one) |
| O Yes |
| O No |
| O Don't know |
| O Other, please specify |
| Digital Preservation |
| In this section, you will be responding to criteria related to the actions undertaken by the project for maintaining its digital content for the long-term. The criteria aim to assess whether digital preservation requirements and practice have been considered and/or established. If you don't know the answer to some of these questions, you can leave them blank and - if possible - provide a name for a contact person who is familiar with the project's digital preservation planning and action at the end of this survey. |
| Has the project identified and/or secured financial support for the ongoing maintenance of digital content post end-of-project? |
| O Yes |
| O No |
| O Don't know |

| Has the project identified and/or secured staff resources for ongoing support with digital content? (Either externally funded or as part of an organisation's operational budget) |
|---|
| O Yes |
| O No |
| O Don't know |
| O Other, please specify |
| Does the project provide metadata or other descriptive information for its digital content, so that the user community can understand, interpret and discover the content? |
| O Yes |
| O No |
| O Don't know |
| O Other, please specify |
| |

Sustainable file formats

For digital content to remain accessible in the long term, sustainable file formats should be used. The table below provides sustainable file formats for common digital content types.

To answer the next question, consult the table first then specify if the project uses sustainable file formats for the digital content it has developed.

| Digital content type | Sustainable file formats |
|-----------------------------------|---|
| Text documents | Open document Text Format (ODT)Portable Document Format/Archival (PDF/A-2) |
| Photographs and graphics | Portable Network Graphics (PNG)Tagged Image File Format (TIFF)JPEG 2000 (JP2) |
| Vector graphics and illustrations | Scalable Vector Graphics (SVG) |
| Audio files | Audio Interchange (AIFF)WAVeform Audio (WAV) |
| Video files | Motion JPEG 2000 (MJP2 or MJ2)MPEG-4 |
| Presentations and slides | OpenDocument Presentation Format (ODP)Portable Document Format/Archival (PDF/A-2) |

| Looking at the table above, please specify below if the project uses any sustainable file formats for storing different digital content types. | | | | | |
|--|--|--|---|--|--|
| | Yes: the project stores this content type in a sustainable file format | Partly: the project stores some of this content type in a sustainable file format | No: the project doesn't use this file format for this content type | Not applicable: the project hasn't produced files of this content type | |
| Text documents | 0 | 0 | 0 | 0 | |
| Photographs and images | 0 | 0 | 0 | 0 | |
| Graphics and illustrations | 0 | 0 | 0 | 0 | |
| Audio | 0 | 0 | 0 | 0 | |
| Video | 0 | 0 | 0 | 0 | |
| Presentations and slides | 0 | 0 | 0 | 0 | |
| Is the project's di (e.g. the Internet | igital content harv Archive) | ested and archive | ed by a public web | archive? | |
| O Yes | | | | | |
| O No | | | | | |
| O Don't know | | | | | |
| O Other, plea | se specify | | | | |
| • | egislative, contrac or the long-term? (| | | p the project's | |
| ☐ Compliance | e with legal respons | ibilities, e.g. Freedo | om of Information | | |
| | Contractual terms and conditions of funding that require digital outputs to be maintained for a specified period of time or indefinitely | | | | |
| • | uts of commercial v project proposals | alue, or that are na | med in current pro | jects or | |
| ☐ Don't know | | | | | |
| ☐ Other, pleas | ☐ Other, please specify | | | | |
| • • | provide its user c ensing) that apply | • | | , | |
| O Yes | | | | | |
| O No | O No | | | | |
| O Don't know | | | | | |
| O Other, plea | O Other, please specify | | | | |

Promotion of Digital Content

In this last section, you will be responding to criteria related to activities that the project has undertaken to promote the digital content. The criteria are based on digital sustainability theories, which postulate that promotion activities raise community engagement with digital content and contribute to its sustainability through community-led initiatives.

Thinking of the project's promotional and audience engagement activities, please indicate if any of the following channels have been used.

| · | Yes | No | Not yet, but it is planned to use this channel | Don't know |
|--|-------|----|--|--------------|
| Events: the project and its digital content have been promoted at conferences, meetings, workshops etc. | 0 | 0 | 0 | 0 |
| Public media: the project and its digital content have been publicised in public media, such as newspapers articles; television programmes; radio shows | 0 | 0 | 0 | 0 |
| Academic press: the project and its digital content have been documented in academic publications, such as journals and conference papers/posters | 0 | 0 | 0 | 0 |
| Social media: the project has a dedicated presence on social media, through which it promotes its activities and digital content | 0 | 0 | 0 | 0 |
| Feel free to provide detai links to social media; jou | - | | s that the project has | s used (e.g. |
| Promotion of Digital Co | ntent | | | |
| If you think that one of you questions in this survey, | | | | ome of the |
| | | | | |

Thank you

Thank you for completing the survey, we appreciate your time and valuable contribution to our work. By analysing your feedback, we will be able to study the requirements of Community projects exploring WW1 heritage for digital sustainability; and inform our understanding of areas where gaps and barriers exist in sustaining the Centenary's digital heritage, now and into the future.

If you would like to learn more about digital sustainability and how you can implement it in your FWW community commemoration activities and projects, we have prepared a set of recommendations and guidelines available under a Creative Commons Attribution-ShareAlike 4.0 International License.

You can access the document at: http://eprints.gla.ac.uk/190714/





SAVING THE CENTENARY'S DIGITAL HERITAGE

RECOMMENDATIONS FOR DIGITAL SUSTAINABILITY OF FWW COMMUNITY COMMEMORATION ACTIVITIES



Agiatis Benardou Lorna Hughes Leo Konstantelos

Get in touch

For more information about the survey and our work, or for suggestions and questions, you can contact us:

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Appendix III: Sample scoring card

| DIME NSION | | Criteria | | | | | | | | | | | | | | | Score /100 | Weig hted score |
|------------------|--|--|---|---|--|--|--|---|--|--|---|--|--|--|--|---|---------------|-----------------------|
| CONTENT | Projec t Status Undef ined | Types: Documen ts Maintaine d (active/ar chived) | Types: Images Maintaine d (active/ar chived) | Types: Audio & Video Maintaine d (active/ar chived) | Types: 3D Maintaine d (active/ar chived) | Types: Web Maintaine d (active/ar chived) | Relevanc e: Objective s Available (online/p hysical) | Relevanc e: Context Available (online/p hysical) | Relevanc e: Audience Available (online/p hysical) | Relevanc e: Value Available (online/p hysical) | Authority: Organisat ion details Available (online/p hysical) | Authority: Ownershi p Available (online/p hysical) | Authority: Partners Available (online/p hysical) | Authority: Funding details Available (online/p hysical) | Authority: Ongoing support Available (online/p hysical) | Conte nt access ible? Projec t websit e | | 25% |
| | Max possi ble points | 31 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 Sustair | 2 nability score | for Content: | 30 | 97 | 24 |
| TECHNOL OGY | Open web tech used Entirely 2 | | | | | 75-1 | FO rating* Green rating* Digital content archived 75-100% Finitely 4 4 2 | | | | | | | 25% | | | | |
| | Max possi ble 12 points : | | | | | | | | | | 100 | 25 | | | | | | |
| PRESERV ATION | Ongoing financial support Ongoing financial s (maintenance) secured secured | | | financial supp secured | oort (staff) Metadata for digital cont produced | | | content | ontent Sustainable file formats used | | | Legal, contractual and/or financial reasons for preservation defined Terms and conditions (incl. copyright and licensing) for use defined | | is (incl. nt and for use | | 25% | | |
| | | Yes | | | Yes | | | Yes | | | Yes | | Y | es | Yes | 5 | | 20 |

| | 2 | 2 | 2 | | 2 | 2 | 2 | | | | |
|-------------------------|---------------------------------------|-------------------------------------|----|-----|---|---|---------------|----|-----|-----|--|
| | Max possi ble 12 points : | | | | | Sustainability score for F | Preservation: | 12 | 100 | 25 | |
| | Digital content promoted at events | Digital content promote radio, news | | | cured in academic press nference papers) | Digital content promoted via social media | | | | | |
| | Yes | Yı | es | Yes | | Yes | | | | 25% | |
| PROMOTI ON | 2 | | 2 | | 2 | 2 | | | | | |
| | Max possi ble 8 points : | | | | | Sustainability score for | r Promotion: | 8 | 100 | 25 | |
| TOTAL WEIGHTED SCORE: 9 | | | | | | | | | | | |