

Collaboration to Clarify the Cost of Curation



D2.4—Final Report on Outreach Events

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The 4C participants are:

Participant organisation name	Short Name	Country
Jisc	JISC	UK
Det Kongelige Bibliotek, Nationalbibliotek Og Kobenhavns Universitetsbibliotek	KBDK	DK
Instituto de Engenharia de Sistemas e Computadores, Investigacao e Desenvolvimento em Lisboa	INESC-ID	PT
Statens Arkiver	DNA	DK
Deutsche Nationalbibliothek	DNB	DE
University of Glasgow	HATII-DCC	UK
University of Essex	UESSEX	UK
Keep Solutions LDA	KEEPS	PT
Digital Preservation Coalition Limited by Guarantee	DPC	UK
Verein Zur Forderung Der It-Sicherheit In Osterreich	SBA	AT
The University of Edinburgh	UEDIN-DCC	UK
Koninklijke Nederlandse Akademie van Wetenschappen -KNAW	KNAW-DANS	NL
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Executive Summary

The 4C project has taken a focussed approach to liaison with its stakeholders through outreach to the established digital preservation community. To foster a better understanding of curation costs amongst the community, the 4C project raised awareness of the issue within the community as a whole as well as in the different stakeholder and target groups. A number of events were organised and undertaken—namely three workshops and the final project conference—to present the outputs and results to the designated community. These events also allowed us to interact with the stakeholders; to understand their requirements and to get their feedback. These inputs were incorporated in the subsequent project work.

All events were well promoted in a timely fashion, successfully organised and all generated significant interest amongst the whole digital curation community. Each workshop was connected as satellite event to a national or international event or conference to guarantee as great and diverse reach as possible. The envisioned educational aspect was included in and fulfilled in all outreach events that were undertaken.

During the well attended outreach events useful insight was gained regarding the many initiatives and projects in this field.

The events successfully showcased the project outputs and provided direct inputs to further iterations of those deliverables. The fruitful, varied and lively discussions were of direct benefit to the attendees and feedback received was of high value. The project was impressed by the engagement of the community as a whole and worked to ensure the results of the outreach events were available for those who had been unable to attend. The comments received during and after each event were decidedly positive and encouraging from both the attendees and those work packages relying on the WP2 events for information and validation of results.

Finally, we have striven to fulfil our intention of being an open and social project—publishing our results in draft form and soliciting feedback at all stages of the thought process—in order to generate a ‘buzz’ about digital curation costs and to create a demand for our deliverables before they were completed. The enthusiastic engagement we have experienced lead us to believe that we have been successful in this endeavour.

1 Introduction

The deliverable Final Report on Outreach Events is defined in the Description of Work (DoW) as follows

D2.4) Final Report on Outreach Events: Two workshops will be organised along with a final project conference and all three events will aim for international impact and participation. The report will assess their impact and significance and the success of the project dissemination activities.¹

This report lists the outreach events that were organised and undertaken throughout the 4C project. These consisted of two general workshops, one Roadmap specific workshop that was jointly organised by work package 2 (WP2) and work package 5 (WP5) members and the final project conference that was a joint event together with the Digital Preservation Coalition (DPC). The events are listed chronologically in this report and programmes, discourses, highlights and issues arisen can be found in the appendices. The conclusion summarises the impact of all outreach events and highlights information of particular relevance to the roadmap deliverable.

Key DOW quotes

“Two workshops will be organised along with a final project conference and all three events will aim for international impact and participation. The workshops will crucially also have an awareness-raising and training remit. The final project conference will showcase the draft project findings, disseminate messages, and try to consolidate and sustain the emerging network and community that will have been defined. This report will assess their impact and significance and the success of the project dissemination activities.”

¹ Description of Work, page 9

2 Workshops and conference

As mentioned above, three workshops (two general workshops and the Roadmap workshop) were organised and carried out by members of WP2 together with support of all other work packages who provided input into the outreach events and engagement activities. The other work package groups benefited from the outputs of these events gathering data from the wider stakeholder family and the digital curation community. This data allowed them to develop and elaborate their outputs close to the needs and requirements of the same community and provided community validation of the products the project created.

The overall aims and goals of the outreach events were threefold:

1. to showcase the project's work and progress on its outcomes and achievements
2. to gather input on the preliminary results from external parties
3. to facilitate an exchange of views, information and opinions on relevant and related issues in this field of digital curation

Achieving these aims enabled the 4C partners to take into account relevant developments elsewhere and allowed the external stakeholders to engage directly in the project to influence its direction and outputs.

All workshop events followed a general structure that was adapted and tailored to their specific topics that would be covered. All started with a welcome and introduction to the 4C project, followed by in-depth presentations about a particular topic. Project results and specific questions were then the subject of discussion and/or break-out sessions, followed by a plenary wrap-up and a period of feedback. The reactions and opinions from the stakeholders were captured and evaluated throughout the discussions and via feedback forms that were handed out to the participants at the end of the event. The participation, both internal and external from the project, was always well balanced in the workshops and created a pleasant working atmosphere and made the exchange and discussions lively and productive for both sides.

The final project conference represented a high point in the projects outreach activities and was both eagerly anticipated and well received by the community. It was a joint event between the 4C project and the Digital Preservation Coalition (DPC) who used the occasion to celebrate their regular Digital Preservation Awards. This proved beneficial to both groups as it enabled us to attract wider audiences from within the DPC network and the digital curation community. It followed a typical dissemination conference structure, including keynotes, plenary sessions, break-out and workshop sessions, a “minute madness”, and a reception; the conference dinner was replaced by the Award Ceremony on the first evening of the two day conference.

All three workshops and the conference were recorded in reports including the agenda, list of participants, and minutes. During the events, pictures were taken both to capture the atmosphere and also to use for live tweets² via the 4C Twitter account³ to inform interested parties and the whole community about the findings and discourse. Significant parts of the conference were broadcasted via the

² Hashtag #IIO2014

³ See Section 3.7 Social Media in D2.3 for details about the Twitter activities

internet to give interested parties and colleagues that were not able to attend in person the chance to follow the presentations online⁴.

The reports of all workshops are provided as Appendices in this deliverable.

2.1 Workshop #1 at iPres 2013 in Lisbon, Portugal

The very first 4C workshop “What does it cost? - EU Activities to Assess the Cost of Digital Curation” was held at iPres 2013 conference on 6th September 2013 in Lisbon, Portugal. It was a half day workshop from morning to noon with 20 participants from a variety of backgrounds including memory institutions, research organisations, SMEs, Big Data Science and industry, plus ten 4C colleagues.

The attendees were introduced to the project, its aims and objectives. 4C project team members presented initial project findings, such as the Stakeholder Consultation results, thoughts on the Curation Costs Exchange platform and the Economic Sustainable Reference Model (ESRM). Presentations by external speakers included Kirnn Kaur (British Library) on APARSEN project analysis and testing of cost models; Angela Holzer (DFG) gave an overview on Knowledge Exchange Funding; and Jamie Shiers (CERN) shared CERN cost data and discussed the importance on managing these in the Big Data Industry. After each presentation there was time for questions and discussions, followed by an open discussion chaired by William Kilbride (DPC).

The event concluded with project coordinator Neil Grindley who invited the participants to contribute to the development of the 4C project resources by providing input, discussion of initial results, or, if possible, sharing cost information to improve the Cost Concept Model and ultimately the Curation Cost Exchange. All presentations and the agenda can be found on the 4C project website: <http://4cproject.eu/community-resources/focus-groups/ipres-workshop>

The report for this event can be found in Appendix A.

2.2 Workshop #2 at IDCC 2014 in San Francisco, CA, USA

The second 4C workshop—a full day workshop from morning to afternoon entitled “Costing Curation: are we on the right track?”—took place at the IDCC 2014 conference on 24th February 2014 in San Francisco, CA, USA. It was attended by six 4C project members and 25 external delegates, all with different professional and organisational backgrounds which gave a multifaceted mixture of viewpoints on the topics dealt over the course of the day.

The workshop included presentations by 4C members to introduce the outcomes and results of the project to date and break out parts as well as guided exercise sessions. Participants were introduced to the 4C project in general and also to the issue of costs in curation. The 4C Indirect Economic Determinants and the more broadly defined benefits of curation were then used to identify which curation costs issues the delegates considered a priority.

All presentations and the agenda can be found on the 4C project website: <http://4cproject.eu/community-resources/focus-groups/idcc-workshop-2>

The report for this event can be found in Appendix B.

⁴ These webcasts were recorded and can be seen on the DPC website—<http://www.dpconline.org/events/webcast4canddpa2014>

2.3 Roadmap Workshop at iPRES 2014 in Melbourne, Australia

The Roadmap workshop was originally intended to take place at the final conference. However, to gather more input on the draft Roadmap, which was published in August/September 2014, and to reach out to an even wider range of stakeholders it was decided to include it in the iPRES conference programme. This provided an opportunity to present other outputs as well, such as the Cost Concept Model (CCM) and Curation Costs Exchange (CCEx), and gather feedback for these.

The workshop took place on 6th October 2014 in the Victoria State Library in Melbourne, Australia, within the scope of the iPRES2014 conference. It was a half day event and in attendance were six 4C members and 20 external participants representing the different stakeholders we were aiming for. The purpose of this workshop was to present the draft Roadmap to the community and gather their input to finalise and refine the document for its final version.

All presentations and the agenda can be found on the 4C project website: <http://4cproject.eu/community-resources/focus-groups/workshop-4-ipres>

The report for this event can be found in Appendix C.

2.4 Final Project Conference, joint event with DPC, in London, UK

The final Project Conference was the culmination of two years' work on the 4C Project. Entitled 'Investing in Opportunity' and held on 17th and 18th November 2014 at the Wellcome Trust⁵ in London, the conference showcased a range of resources and addressed a broad spectrum of issues relating to the economics of digital curation.

Organised jointly by the 4C Project and the DPC, the conference compared the strategic economic aspirations of funders and policy makers with the practical experience of digital preservation, providing perspectives from practitioners, vendors and users of digital curation services.

The 154 delegates were invited to review key 4C Project deliverables, namely the project Roadmap and the Curation Costs Exchange (CCEx), and asked to consider the implications of these resources before they were submitted to the European Commission.

Attendees praised the "mix of presentations and workshops, enabling lots of useful conversations" as well as commending the way the two day event brought together the digital curation community for "great debate and lively discussion."

Digital content creators, curators and funders alike, across public and private sectors, were able to find relevance in the conference keynotes from leaders in digital curation, such as Fran Berman and David Rosenthal, as well as the 4C project resources.

All presentations and the agenda can be found on the 4C project website: <http://4cproject.eu/community-resources/investing-in-opportunity-conference>

The report for this event can be found in Appendix D.

⁵ <http://www.wellcome.ac.uk/>

3 Conclusion

The overall open and social character of the project has been supported, maintained and emphasised by the tasks undertaken in work package 2 and by planning and performing the outreach events described in this report.

The impact, significance and success of the outreach events is underlined by the strong demand for attendance and in the numbers of participants in the workshops and the final conference; all four events were fully booked and very well attended. In addition, the reception by the community of the outputs and results from the project work are indicative of the success and impact of the outreach activities; without the involvement and assistance of the community and our stakeholders the project's results would not be as broadly applicable, nor as mature. Another indicator of outreach success is the fact that, quite apart from the stake holders we approached directly, we were also contacted by external organisations independently. There has been a continuous and growing interest by external parties in both the project in general and the outputs in particular throughout the whole term of 24 months⁶. From the positive and constructive feedback and the extended strong interest and the engagement we have observed from the community⁷ one can draw the conclusion that the topic of costing curation was tackled in an appropriate fashion by all project partners. In short we achieved the goals of the 4C project.

⁶ At the time of writing there were about 500 contacts in the Stakeholder Registry (D2.2) with more being added regularly.

⁷ See D2.3 Final Stakeholder Reports for details

References

4C Project, Description of Work (DoW)

D2.2 Stakeholder Registry

D2.3 Final Stakeholder Report

4C Roadmap

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Appendix A Report on Workshop #1

Collaboration to Clarify the Cost of Curation



4C Workshop at iPRES 2013 in Lisbon, Portugal

Report

Project funded by the European Commission within the Seventh Framework Programme		
Dissemination Level		
PU	Public	✓
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RE	Restricted to a group specified by the consortium (including the Commission Services)	
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Attendees

4C:

1. William Kilbride, DPC
2. Kevin Ashley, DCC
3. Luis Faria, KEEPS
4. Sarah Norris, DPC
5. Paul Stokes, Jisc
6. Neil Grindley, Jisc
7. Alex Thirifays, DNA
8. Sabine Schrimpf, DNB
9. Katarina Haage, DNB
10. Diogo Proença, INESC-ID

Participants:

1. Vincent Joguín, Eupalia Sas
2. Kirnn Kaur, British Library (APARSEN)
3. Marcin Ostasz, Barcelona Supercomputing Centre
4. Jette Junge, State and University Library Denmark
5. Catherine Jones, Science + Technology Facilities Council
6. Yvonne Fries, ZBW Kiel
7. Paul Wheatley, University of Leeds
8. Pauline Sinclair, Tessella
9. Anna Henry, TATE
10. Angela Dappert, DPC
11. Sharon McMeekin, DPC
12. Nancy Deromedi, University of Michigan
13. Christina Bankhardt, AbbVie
14. Elisha Pavlaskova, Charles University in Prague
15. Jamie Shiers, CERN
16. Mette von Essen, National Archives of the Netherlands
17. Nancy McGovern, MIT Libraries
18. Andrew Wilson, (no affiliation)
19. Maurizio Lunghi, Fondazione Rinscimento Digitale
20. Angela Holzer, German Research Foundation

Agenda

- 09:00-09:05 Welcome—Katarina Haage, DNB
- 09:05-09:20 4C Workshop—Introduction (iPRES 2013)—Neil Grindley, Jisc
- 09:20-09:50 Presentation of APARSEN results on analysis and testing of cost models—Kirnn Kaur, British Library
- 09:50-10:20 4C Workshop—Web Consultation Results (iPRES 2013)—Ulla Bogvad Kejser, KBDK / Alex Thirifays, DNA
- 10:20-10:45 Q & A and Thoughts on the Curation Costs Exchange
- 10:45-11:15 Coffee Break
- 11:15-11:30 4C Workshop—KE Funding Presentation (iPRES 2013)—Angela Holzer, DFG
- 11:30-11:45 Outcomes from the recent DCC Research Data Management Forum—Kevin Ashley, UEDIN-DCC
- 11:45-12:00 4C Workshop—ESRM Presentation (iPRES 2013)—Neil Grindley, Jisc
- 12:00-12:15 Short presentation of CERN cost data—Jamie Shiers, CERN
- 12:15-12:50 Open discussion—William Kilbride, DPC
- 12:50-13:00 Wrap up

All slides can be downloaded from the 4C website: <http://4cproject.eu/community-resources/focus-groups/ipres-workshop>

Workshop Report

Note: Because all presentation slides are available on the 4C website⁸, this report focuses on the discussions following or in between the presentations.

William Kilbride invited the workshop participants to share what comes to their mind when they think about the issues of cost of curation. The participants said that they thought about disasters (cost of data loss), cost of business systems, cost of outsourcing vs. doing curation in house.

After Kirnn Kaur's APARSEN presentation, the discussion focused on the fact that most cost models were not designed for reuse in the first place. As the only exception, the LIFE cost model was developed explicitly for the wider community. Altogether, it was concluded that there is a need for simplicity in the models. Also an abstraction of the existing models was proposed. The "Cost Concept Model" that will be developed in the 4C project takes this line and might foster progress in this area.

Following Alex Thirifays' presentation of the initial results of the 4C project, several participants expressed wishes for topics that 4C should take into consideration: It would be interesting to look at and identify the "cost of inaction" in digital curation that may lead to data loss. Also benefits should be investigated (in fact, 4C has a dedicated task on benefits). One participant said he wanted to see some evidence for the money save that results from small amounts of DP activities. He believes that this would be the most

⁸ <http://4cproject.eu/community-resources/focus-groups>

powerful benefit to allow for early preservation investments. Another participant stressed the importance to engage with industry and learn from their general cost modeling experiences.

It was emphasized how interesting it was that APARSEN and 4C came to the same conclusions in their cost model analysis. Both projects should use this congruency to strengthen their points.

It was debated in how far the standardization of workflows can simplify the costing of digital curation activities. One participant shared her experience from her work in the area of educating DP practitioners: Most important is “what” should be preserved, “how” should it be preserved and “how much” should be preserved. From this perspective, it is rather unlikely that standard workflows (to map cost parameters against) make cost modeling easier. It is probably unrealistic to assume that standard workflows can be derived because things *are* different in reality.

William Kilbride sent the workshop participants to the Coffee break with four proposals on what the “Curation Cost Exchange” platform that the 4C project will be developing might become. After the break, the different options were discussed:

1. Recommender service: The system tells you what to think about, which models to look at when you want to implement a cost model
 - The participants thought that none of the existing cost models is good enough that the recommender service should truly *recommend* it. The recommender service could, however, direct people to existing work on which they can build their own cost modeling activities: “This is where and how you can start your own cost modeling exercise.”
2. The global oracle: The system gives you an answer how much money you need to sustain your DP strategy on the basis the information that you put in
 - The participants doubted that the existing cost models are developed enough to support this option. For the oracle, one participant warned, 4C would have to create a new cost model and that is the last thing the project should be doing.

As a variation of the oracle option, one participant proposes that the tool guides the interested person through a set of questions and helps to build one’s own algorithm based on these. (Questions like: What do you need to preserve? How do you preserve it? How much needs to be preserved? Who does it, with what percentage of his/her time?)
3. The business case generator: The systems provides you with links to case studies based on some benefits assumptions that you put in
 - One participant calls attention to the fact that the cost model generator is technologically *not* an exchange. It is different from the other three options.
4. The cost model generator: The system gives you the tools to create your own cost model
 - None of the participants picked up this option.

After the presentations of the afternoon session, Neil Grindley concluded the workshop. He invited the participants to contribute to the development of the 4C project resources by providing input, discussion initial results, or, if possible, sharing cost information to improve the Cost Concept Model and ultimately the Curation Cost Exchange.

Appendix B Report on Workshop #2

Collaboration to Clarify the Cost of Curation



Report of Workshop #2 at IDCC 2014 on 24th February 2014 at Omni Hotel, San Francisco, CA

Project funded by the European Commission within the Seventh Framework Programme		
Dissemination Level		
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1.00	07 Jan 2015	Finalised version	KH

Attendees

4C:

1. Neil Grindley, Jisc
2. Rachel Bruce, Jisc
3. Kevin Ashley, DCC
4. Joy Davidson, DCC
5. José Borbinha, IST- University Lisbon
6. Katarina Haage, DNB

Participants:

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3. Brian Westra
4. Kyle Rimkus
5. Angeletta Leggio
6. Bronwen Sprout
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8. Alex Ball
9. Su Nee Goh
10. Rita van Duinen
11. Nathan Tallman
12. Carla Graebner
13. Daureen Nesdill
14. Laura Vilela R. Rezende
15. Edward McCain
16. Wendy Kozlowski
17. Daniele Balduzzi
18. Limor Peer
19. Melanie Davis
20. Viv Hutchison
21. Lizzy Rolando
22. David S.H. Rosenthal
23. Melissa Cragin
24. Helen Tibbo
25. Beth Yakel

Agenda

Section 1 (09:00-10:30)

1. Introduction to the 4C project and the costs of curation (presentation)
2. What is your organisation interested in? (Presentation and Q&A using the 4C Indirect Economic Determinants and the more broadly defined benefits of curation)
3. How do different organisations count the cost of curation? (Exemplars & participants invited to briefly share experiences)

Section 2 (11:00-12:30)

4. Introduction to the 4C draft Cost Concept Model (Presentation)
5. How would you break down the cost of curation? (Exercise in small groups supported by 4C team member)

Section 3 (13:30-15:00)

6. The CCEx and sharing costs (Presentation and Q&A)
7. From costs to business models via risk (Presentation and Q&A)

Section 4 (15:15-16:30)

8. Sustaining solutions and services using the ESRM (Exercise)
9. Recap, summing up and feedback

Minutes

Note: Because all presentation slides are available on the 4C website⁹, this report focuses on the discussions following or in between the presentations or rather the results of the exercises.

The workshop “Costing curation: Are we on the right track?” was a full day workshop held on February 24th 2014 in the scope of 2014’s IDCC conference in San Francisco. It was visited by 25 participants. After a brief but comprehensive introduction to the 4C project, its purposes, approaches and goals by all six present 4C attendees the workshop went straight to the heart of the matter.

For the purposes of feedback, these notes capture the outputs of agenda items 2, 3, 5, 6, 8.

2—What is your organisation interested in? (Presentation and Q&A using the 4C Indirect Economic Determinants and the more broadly defined benefits of curation)

Having been introduced to the Indirect Economic Determinants the workshop participants were asked to “rank” the following 15 terms with regard to their importance for their organisation’s backgrounds. The majority of participants came from universities and academic libraries respectively memory institutions with data repositories. Other organisations like publisher, international development organisation, provider of preservation software and services and federal government were represented individually. The results of the ranking were as follows:

1. University sector:
 - Authenticity—high (5), medium (2), low (2)
 - Benefit**—high (8), medium (1), low (-)
 - Efficiency—high (2), medium (6), low (1)
 - Impact—high (5), medium (2), low (2)
 - Innovation—high (-), medium (7), low (2)

⁹ <http://4cproject.eu/community-resources/focus-groups/idcc-workshop-2>

Interoperability—high (4), medium (2), low (2)
 Quality—high (4), medium (4), low (1)
 Reputation—high (4), medium (5), low (-)
Risk—high (6), medium (3), low (-)
 Sensitivity—high (4), medium (3), low (2)
 Skills—high (2), medium (4), low (1)
 Sustainability—high (5), medium (3), low (1)
 Transparency—high (2), medium (4), low (3)
Trustworthiness—high (6), medium (2), low (1)
 Value—high (5), medium (4), low (-)

The results show that benefit, risk and trustworthiness are the three terms with the highest importance, closely followed by authenticity, value, impact and sustainability. Added terms from university sector representatives: compliance, research quality assessments.

2. Library sector:

Authenticity—high (8), medium (3), low (-)
 Benefit—high (4), medium (6), low (-)
 Efficiency—high (4), medium (6), low (1)
 Impact—high (3), medium (7), low (1)
 Innovation—high (2), medium (4), low (5)
 Interoperability—high (7), medium (3), low (1)
 Quality—high (8), medium (3), low (-)
Reputation—high (10), medium (1), low (-)
 Risk—high (5), medium (2), low (4)
 Sensitivity—high (5), medium (4), low (1)
 Skills—high (3), medium (6), low (2)
 Sustainability—high (8), medium (2), low (1)
 Transparency—high (5), medium (4), low (2)
Trustworthiness—high (9), medium (2), low (-)
Value—high (10), medium (1), low (-)

The results show that value, reputation and trustworthiness are the three terms with the highest importance, closely followed by authenticity, quality and sustainability. Added terms from the library sector: versioning (2), compliance (2), scalability, ease of use, willingness of faculty, capacity (data set size).

3. Other organisations:

Authenticity—high (2), medium (3), low (-)
 Benefit—high (1), medium (3), low (1)
Efficiency—high (4), medium (1), low (-)
 Impact—high (3), medium (1), low (1)
 Innovation—high (2), medium (1), low (1)
 Interoperability—high (3), medium (1), low (1)
 Quality—high (2), medium (3), low (-)
 Reputation—high (2), medium (3), low (-)
Risk—high (4), medium (1), low (-)
 Sensitivity—high (2), medium (1), low (2)
 Skills—high (1), medium (3), low (1)

Sustainability—high (2), medium (3), low (-)
Transparency—high (3), medium (2), low (-)
Trustworthiness—high (3), medium (2), low (-)
Value—high (4), medium (1), low (-)

The results show that value, risk and efficiency are the three terms with the highest importance, closely followed by trustworthiness, transparency, impact and interoperability. Added terms from other organisations: usability, scalability, compliance, versioning.

The discussion after this exercise revealed that the 15 terms are not static and their importance might change over the hands of time. Certain terms need to be viewed from different angles regarding the background and kind of organization that is ranking them. Another difficulty in building a digital repository also seems to be the different skills in staff and activity as well as in the organisational and management level. Some people would like to take more assets in their digital repository but simply do not have the monetary and other resources for more storage spaces and positions.

3— How do different organisations count the cost of curation? (Exemplars & participants invited to briefly share experiences)

The presentation showed a few examples of how differently organisations can or do count the cost of curation, these were based on examples from Advisory Board members and project partners.

In the subsequent discussion it became clear that not only calculating but also comparing the costs in digital long term preservation can be seen as the “Holy Grail” that needs to be achieved/ found. Questions like “Is 4C gathering information about costs in curation in terms of finding a solution?” and about the difference between price and cost arose. Another participant suggested that the project take a look at records management and how the large amount of digital material is managed there. One participant stated that they know how much digital curation costs but what seems impossible is to break down the costs to the process itself and the typical kind of content and also that the real challenge lies in the different skills of people. The costs of curation for one year or more is easy to calculate; however, the mission of long-term preservation is to store data forever. It was also mentioned that digitization projects are easy to calculate but beyond this it is much more difficult to do the costing; once a project is finished the danger can occur of losing the incentives to do on-going curation activity. It seems also sensible to calculate the costs in advance and not during a project although this seems more difficult to approach/achieve in an early stage of preservation planning. Some participants also wanted the ability to compare costs against particular scenarios (such as, type of collection, type of organization, tier/level of service, doing something vs. doing nothing). Some participants wanted to be able to compare themselves with like organisations while others wanted to be able to compare themselves with a range of organisation types.

5—How would you break down the cost of curation? (Exercise in small groups supported by 4C team member)

After the introduction to the 4C draft Cost Concept Model (CCM) (point 4 on agenda) the question about the difference between activity, quality and categories in the mind-map to the CCM arose; this needs to be clarified with the creator of the CCM (Hervé L’Hours). Other comments on the CCM were to maybe shorten the time scale and if so, how and how usefully short; to maybe monetize some of the benefits. After the presentation the participants were asked to break down the cost of curation for their

organisation with the help of the “journey” exercise that has been introduced to them beforehand (see slides 32-46 in the presentation¹⁰). The results of this exercise were presented in plenum and showed different approaches to manage and handle costing curation.

6—The CCEx and sharing costs (Presentation and Q&A)

The Curation Costs Exchange was presented in a theoretical format and the mock ups were shown to the participants. Having been introduced to the purpose and functionality of the CCEx the participants were asked to fill in the gaps in the following pro-form question set:

s a ... - Please indicate your professional area (researchers, administrator, librarian, etc.)

I would expect to find ... - What information would you expect to see here?

I'd like to ... - What functionality would you like to see in CCEx?

So I can ... - What could the information you'd aim to get out of CCEx help you to do?

I'd be prepared to share... - What data would you be willing to share with others via CCEx? Under what conditions (anonymity?)

8—Sustaining solutions and services using the ESRM (Exercise)

Having been introduced to the Economic Sustainability Reference Model (ESRM) the participants were asked to fill in the ESRM Appendix questionnaire. This answers generated by this exercise showed the variation (or rather dependency) of the background of the digital repository or archive on the results; for example, digital assets from research sector are very different to digital assets from other sectors. The answers also highly depend on how much into detail you want to or can go into.

¹⁰ http://4cproject.eu/component/docman/doc_download/38-idcc-workshop-slides

Appendix C Roadmap Workshop

Collaboration to Clarify the Cost of Curation



Report of Roadmap Workshop at iPres 2014 on 6th October 2014 at Victoria State Library, Melbourne, Australia

Project funded by the European Commission within the Seventh Framework Programme		
Dissemination Level		
PU	Public	✓
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Version History

Version	Date	Changed pages / reason	Modified by
0.01	Jan 2015	First draft	KH
1.00	07 Jan 2015	Finalised version	KH

Attendees

4C:

1. Neil Grindley, Jisc
2. Luis Faria, KEEP Solutions
3. Ulla Bogvad Kejser, KB DK
4. Katarina Haage, DNB
5. Andreas Rauber, Vienna University of Technology
6. Jose Borbinha, Tecnico Lisbon

Participants:

1. Sean Abel, Government of South Australia
2. Emma Barker, RMIT University
3. Deanne Barrett, Curtin University
4. Ed Fay, OPF
5. Juha Hakala, The National Library of Finland
6. Paul Hebbard, Simonn Fraser University
7. Ross King, AIT Austrian Institute of Technology GmbH
8. Steve Knight, National Library of New Zeland
9. Nancy McGovern, Massachusetts Institute of Technology
10. Darryl Mead, National Library of Scotland
11. Clement Oury, Bibliotheque Nationale de France
12. Stephane Reecht, Bibliotheque Nationale de France
13. Barbara Reed, Record Keeping Innovation
14. Seamus Ross, iSchool Toronto
15. Heather Rubinstein, RMIT Publishing
16. Anna Shadbolt, University of Melbourne
17. Barbara Sierman, National Library of the Netherlands
18. Barbara Signori, Swiss National Library
19. Lise Summers, State Records Office Western Australia
20. Helen Tibbo, University North Carolina

Agenda

- | | |
|-------------|--|
| 09:00-09:15 | Introduction—Neil Grindley, Jisc |
| 09:15-09:30 | Reaching out to the Community—Katarina Haage, DNB |
| 09:30-10:30 | Presentation of the 4C project outputs—Ulla Bøgvad Kejser, KB DK; Luis Faria, KEEPS; Neil Grindley, Jisc |
| 10:30-10:55 | Coffee break |
| 10:55-11:25 | Breakout session |
| 11:25-12:00 | Presentation of the draft Roadmap—Neil Grindley, Jisc |
| 12:00-12:40 | Breakout session |
| 12:40-12:55 | Feedback |
| 12:55-13:00 | Summing up—Neil Grindley, Jisc |
| 13:00 | Lunch |

Minutes

Note: Because all presentation slides are available on the 4C website¹¹, this report focuses on an overall summary of the workshop and its main topic, the 4C Roadmap, and shows the main comments and questions from the audiences during the breakout sessions via mind maps.

The Roadmap workshop was a half day workshop held on 6th October 2014 in the scope of 2014's iPres conference in Melbourne, Australia. It was attended by 20 participants. After a brief but comprehensive introduction to the 4C project, its purposes, approaches and goals by Neil Grindley the workshop went straight off to the heart of the matter—the presentation of the Draft Roadmap that has been circulated beforehand via email and was also available at the event as a printout copy.

The 4C Project was tasked with delivering a Roadmap report and it is this drive towards 'economic efficiency' in relation to digital curation that will be central to the agenda that it sets out. The consultation, stakeholder engagement, analysis and modelling work that have been done allow some principles to be proposed and some assertions to be made that will form the backbone of the report.

Early ideas and discussions about the structure and content of the Roadmap have indicated that it will need to address various questions:

- What vision should we advocate and what principles should we espouse to bring about economically efficient digital curation?
- What current economic inefficiencies do we need to eliminate?
- What or who is the most influential mechanism to bring that about and where will that influence most be felt?
- What is the policy, business and regulatory framework for digital curation and how is it likely to change?
- Over what timescales should we advocate action?
- How can we most economically sustain and exploit existing work? (including the 4C Project outputs)
- How are the economic requirements of stakeholders changing?
- Is it possible and economically desirable to try and align digital curation practice (including standards and terminology)?
- How can we most effectively invest in digital curation at the institutional, national and international level? This workshop is an important opportunity to connect with stakeholders and get input for a critical deliverable of the project. But it is also an opportunity for participants to learn more about the economics of digital curation and to critically assess the efficiency and sustainability of their own services and solutions.

The purpose of a Roadmap—particularly where it seeks to set out an action agenda for a range of stakeholders across various communities—is to make politically astute observations and to arrive at plausible conclusions. This is only possible via early interaction with stakeholders and by achieving some level of community validation before publication and this was the purpose of the workshop. One of the guiding principles of the 4C Project is to create a better understanding of the economics of digital curation through collaboration; and also to be an 'open and social' project and to listen to the needs of the community.

¹¹ <http://4cproject.eu/community-resources/focus-groups/workshop-4-ipres>

Comments and questions on the introduction to the project

- Question: How do you take care of variable costs over time?
- ➔ Answer: Cost submissions are tied to specific periods of time and depositors are encouraged to go back to the Exchange and repeat the exercise and update their information over time.
- Comment: definitions (of activity) are of critical importance given that it is difficult to compare anything if we are not talking about the same thing
- Comment: It would be good to be able to run statistical tools to analyse the costs data over time
- Question: Have you done any work on comparing the cost of preserving digital in comparison with print? Lots of organisations are still very much at the stage of dealing with print material.
- ➔ Answer: Not as such. We have collaborated with relevant projects such as AVPreserve - ‘the cost of inaction’ initiative.

Idea: We need to ensure that our sustainability plan for the CCEx allows for listening to the requirements that people articulate. It is only by being flexible in what the CCEx provides that it will stay relevant as a tool.

Breakout Session 1 and 2

The following two mind maps reflect the questions, comments and ideas from the audience that was attending the Roadmap workshop:



Figure 1—Challenges identified at the Melbourne workshop breakouts

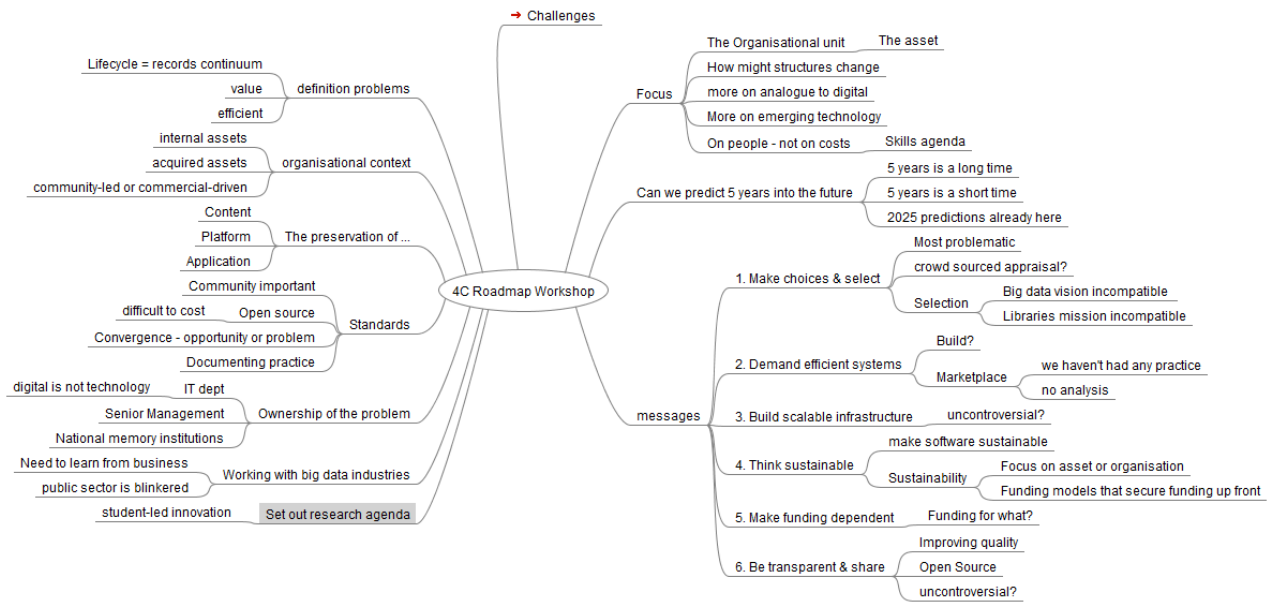


Figure 2—Roadmap issues identified at the Melbourne workshop breakouts

The workshop was concluded by Neil Grindley. He invited the participants to contribute to the development of the 4C Roadmap by providing input and taking part in the online Roadmap feedback consultation: <http://4cproject.eu/rmfeedback>

Appendix D Final Project Conference

Collaboration to Clarify the Cost of Curation



4C/DPC Conference on 17th/18th November 2014 at The Wellcome Trust Centre, London, UK

Report

Project funded by the European Commission within the Seventh Framework Programme		
Dissemination Level		
PU	Public	✓
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Version History

Version	Date	Changed pages / reason	Modified by
0.01	14 January 2015	First draft	KH
0.02	14 January 2015	Review and comments	KH
1.00	15 Jan 2015	Finalised version	KH/SLM

Attendees

A complete list of attendees is provided in the Annex—Conference Information Pack at the back of this document.

Attendees from the 4C project:

- Kevin Ashley, DCC
- Ingrid Dillo, DANS
- Luis Faria, KEEPS
- Miguel Ferreira, KEEPS
- Magdalena Getler, DCC
- Neil Grindley, Jisc
- Katarina Haage, DNB
- Kathrine Hougaard Edsen Johansen, DANN
- Ulla Bogvad Kejser, KBDK
- William Kilbride, DPC
- Hervé L'Hours, UEssex
- Sarah Middleton, DPC
- Diogo Proença, INESC-ID
- Raivo Ruusalepp, NLE
- Diana Sisu, DCC
- Paul Stokes, Jisc
- Stephan Strodl, SBA
- Alex Thirifays, DNA
- David Wang, SBA

Conference planning

DoW Definition: 'The final project conference will showcase the draft project findings, disseminate messages, and try to consolidate and sustain the emerging network and community that will have been defined.'

The 4C Conference 'Investing in Opportunity: Policy Practice and Planning for a Sustainable Digital Future' was held as a joint event together with the DPC. The planning started early in January 2014. The conference committee consisted of:

- Carol Jackson, DPC
- William Kibrade, DPC
- Sarah Middleton DPC
- Neil Grindley, Jisc
- Paul Stokes, Jisc
- Katarina Haage, DNB
- Maureen Pennock, British Library

It was agreed on early that DPC would help organising the event and that they would connect the DPC Awards to it. This had positive effects for both parties; DPC's large audience and 4C's international outreach could reinforce each other. The venue was chosen in the UK partly because all the major conferences were out of reach to a UK audience that year (IDCC in SF, iPRES in Melbourne etc.) and mainly to ensure make the travelling convenient for all participants.¹²

The full final programme is also provided in the Conference Information Pack at the end of this appendix.

The introduction and promotional text which was used for the invitations is shown below. Invitations have been sent to all stakeholders and distributed via the various mailing lists, communicated through newsletters and news posts also from partner projects and initiatives and via Twitter.

¹² An internal budget transfer was arranged to facilitate this.

'Investing in Opportunity:**Policy Practice and Planning for a Sustainable Digital Future'**

Introduction

The 4C (Collaboration to Clarify the Costs of Curation) Project and the DPC (Digital Preservation Coalition) welcome you to a two day conference exploring the long term value and sustainability of digital objects.

The 4C Project is an EC-funded initiative that is helping organisations across Europe to invest more effectively in digital curation and preservation. Research in digital preservation and curation has tended to emphasize the cost and complexity of the task in hand. 4C reminds us that the point of this investment is to realise a benefit, so our research must encompass related concepts such as 'risk', 'value', 'quality' and 'sustainability'. In this major international conference the project will present its major findings and invite a distinguished panel of experts to review and consider the implications of their work.

Working jointly with the membership of the DPC, the conference will compare the strategic economic aspirations of funders and policy makers against the practical experience of digital preservation, including perspectives from practitioners, vendors and users of digital preservation services. It will identify emerging best practice and will provide a forum for needs and practical requirements to be articulated.

Participants will be invited to review key 4C Project deliverables, considering the implications of these resources and providing the opportunity to shape these to suit community needs before they are submitted to the European Commission. In particular participants will have a final chance to influence the soon to be published Digital Curation Roadmap. The conference coincides with a ceremony at which the biennial Digital Preservation Awards will be presented.

Conference proceedings

The booked venue reached full capacity with 150 attendees representing a broad range of our stakeholder spectrum; predominantly universities, libraries and archives, but also banks, charities, funders and lots of vendors.

Since the conference was held in the UK the majority of these stakeholders was always likely to be from the UK, but (as well as the project partner countries) we also saw delegates from:

- Netherlands
- Finland
- US
- Ireland
- Kingdom of Saud Arabia
- Switzerland

The programme and content fulfilled the brief in terms of ‘showcasing project findings’ as well as the work the 4C Project has undertaken. Presentations were given on:

- Roadmap
- ESRM
- CCM
- CCEx

With discussions on Trust & Certification and Risk recurrent throughout the two days

In terms of disseminating messages delegates heard during the two days:

- The message of ‘sustainability’ very strongly throughout all sessions
- The need for the community to take ownership of the subject matter
- ...To collaborate
- And to take the 4C project’s work forward

In terms of addressing the action to try to consolidate and sustain the emerging network and community the following actions can be formulated:

- There was a strong community presence
- The 4C Project has contact details for all delegates through the registration process
- All contacts have been entered into the Project CRM for ongoing contact
- The project will continue to communicate with them until the end of the project

Feedback

The project team received lots of positive, useful reaction and comment from those who attended, particularly in the discussion sessions of the two days, as well as over coffee and in the post-conference feedback (from feedback forms and also online).

Generally:

- Delegates thought the conference was very useful and worthwhile
- The subject matter was appropriate and well presented
- There was a good range of speakers
- The conference provided a thoughtfully presented programme and sets of arguments—many especially liked the ‘theme’ of digital curation costs without it being too Economics-heavy
- The conference was a great opportunity for the community to get together and discuss this subject
- The keynote speaker on day two, David Rosenthal was a favourite speaker—presenting a subject that was particularly relevant for a lot of people.

What did we learn?

Specifically the project learnt that people still want to know ‘how much is it going to cost?’ Ron Dekker told the conference there was no more money; David Rosenthal told delegates that volumes would rise but the cost of curation was getting cheaper; AV Preserve told the audience about the ‘Cost of Inaction’—different standpoints with different resulting actions.

In terms of the 4C outputs that were presented the following conclusions may be drawn:

Roadmap

- Generally delegates welcomed the Roadmap
- The question of timing arose several times: some said 5 years was unrealistic, others said 5 years is too long a lead-time
- Some of the roadmap messages are more pertinent for particular stakeholder groups—the project has taken an action to disseminate the messages more widely still, in a more targeted and digestible format¹³

CCM/ESRM

- Feedback suggested that the session was too short to present two complex models back to back
- There was not enough detail in the presentations given the time constraints
- There is still some confusion about purpose and application—an action for the project is suggested use cases for each, or explanatory notes at entry point

CCEX

- Invited respondents told the project team about the levels of granularity within the tool: for some it was too great, some not enough
- A FAQ section was suggested with gave more detail on why the CCEX is the way it is
- Others told the project that it was a useful tool for managers’ due diligence and for ‘verifying’ costs
- Alex’s Thirifays has written a blog outlining and clarifying more details on this topic¹⁴

Certification and standards

- This subject generated a great deal of discussion
- There were some conflicting views/opinions—still seems to be an area not fully understood.
- David Rosenthal began his paper from the standpoint of a ‘victim of certification’ but conceded there were benefits...
- The project team may incorporate some signposting into the Roadmap to address what’s available and how to get involved in a standards review?

¹³ See <http://4cproject.eu/roadmap-resources>

¹⁴ <http://4cproject.eu/news-and-comment/4c-blog/155-the-curation-costs-exchange-unveiled-and-challenged-by-alex-thirifays>

Vendors

- The conference received a lot of input from Preservica (all attending vendors were invited to speak—Preservica was the only vendor to accept) so the project and conference is clear on their opinions. We have previously heard from Matthew Addis in his blog...but not so much from others.
- Action to set up a vendors focus group in January with an emphasis on product alignment to investigate this further.
- Conference heard that vendors are keen to be involved.

In Summary, the 4C/DPC Conference was a very worthwhile event for the project team and was very well received by all delegates.

Sustainability

All conference presentations and workshop presentations as well as notes from the sessions with live note taking are available online on the 4C website under Community Resources—Investing in Opportunity Conference: <http://4cproject.eu/community-resources/investing-in-opportunity-conference>

For those who could not attend a webcast was established and the recordings can be found online under: <http://www.dpconline.org/events/webcast4canddpa2014>

Annex—Conference Information Pack

4C



Collaboration to Clarify
the Costs of Curation

**‘Investing in Opportunity:
Policy Practice and Planning for a Sustainable
Digital Future’
Conference**

Wellcome Trust, London

17th – 18th November 2014



Digital**Preservation**Coalition

This 4C project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 600471





'Investing in Opportunity: Policy Practice and Planning for a Sustainable Digital Future'

Introduction

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The conference coincides with a ceremony at which the biennial Digital Preservation Awards will be presented.



Programme – Monday 17th November

0930 – Registration open, tea and coffee
 1015 – Webinar opens
 1030 – Welcome and Introductions
 1035 – First Keynote: Fran Berman, Research Data Alliance (RDA)
 1120 – Brief Q&A
 1130 – Webinar closes

Session 1:

'Investing in Curation: A Shared Path to Sustainability' – The 4C Roadmap

1130 – Presentation of Roadmap: Neil Grindley, Jisc and Ingrid Dillo, Data Archiving and Networked Services (DANS)
 1200 – Invited Response 1: Juan Biccaregui, Science and Technology Facilities Council (STFC)
 1210 – Invited Response 2: Rob Sharpe, Preservica
 1220 – Invited Response 3: Jamie Shiers, CERN
 1230 – Discussion
 1300 – Lunch

Session 2:

Main auditorium	Dale Room	Franks Room	Steel Room
Planning Sustainability			
1400 – Overview and introduction: Raivo Ruusalepp, National Library of Estonia	1330 – DPC Board Meeting	1400 – Workshop 1: Digital Preservation Cost Myths, Preservica	1400 – Workshop 2: Sustainable Digital Preservation & APARSEN: Value Propositions, Business Cases and Policy.
1410 – Paper one, Costs Concept Model: Ulla Bøggvad Kejser, The Royal Library Denmark.			
1440 – Paper two, Economic Sustainability Reference Model: Neil Grindley, Jisc.			
1510 – Discussion			

1520 – Minute madness: Introduction to the Digital Preservation Awards Finalists

1545 – Tea and Coffee



Session 3:

Main auditorium	Dale Room	Franks Room	Steel Room
<p>What sustainability means in practice</p> <p>1615 – Repository perspective: Catherine Hardman, Archaeology Data Service.</p> <p>1635 – Service provider perspective: Sandra Collins, Digital Repository of Ireland</p> <p>1655 – Funder perspective: Ron Dekker, NWO - Netherlands Organisation for Scientific Research</p> <p>1715 – Discussion</p>	<p>1615 – DPC AGM Presentation of DPC Strategic Plan</p>	<p>1615 – Workshop 1 continues</p>	<p>1615 – Workshop 2 continues</p>

1730 – End of Conference Day one

1830 – Doors open for Digital Preservation Awards 2014

1900 – Digital Preservation Awards 2014 ceremony

2000 – Drinks reception

2100 – Close





Programme – Tuesday 18th November

0930 – Webinar opens
 0945 – Welcome and Introductions
 0950 – Second Keynote: David Rosenthal, Stanford University
 1035 – Brief Q&A
 1040 – Webinar closes
 1040 – Tea and coffee

Session 4:

Main auditorium	Dale Room	Franks room	Steel Room
Curation Costs Exchange			
1100 – Introduction: Alex Thirifays, Danish National Archives & Luis Faria, KEEP Solutions	1100 – Workshop 3: Preserving more than data - Tools demo, TIMBUS Project	1100 – Workshop 4: Shared preservation for archives, University of Hull	1100 – Workshop 5: Working together and growing together, nestor
1120 – Invited response from prospective users: Simon Hodson, CODATA			
1130 – Invited response from service providers: Kate Wittenberg, Portico			
1140 – Discussion: chaired by Ron Dekker, NWO			

Session 5:

Main auditorium	Dale room	Franks Room	Steel Room
Here comes the future			
1200 – Technology tipping points: John Tilbury, Preservica	Workshop 3 continues	Workshop 4 continues	Workshop 5 continues
1220 – Delivering skills for the future: Sarah Higgins, University of Aberystwyth			
1240 – Organisations: Marius Snyders, PRESTO Centre			

1300 – Lunch



Session 6:

Main auditorium	Franks room	Dale Room
<p>Policy & Planning challenges</p> <p>1400 – Doing nothing, the Cost of Inaction: Chris Lacinak, AVPreserve</p> <p>1420 – The fall’s gonna kill you - sensitivity matters: Tim Gollins, The National Archives/University of Glasgow</p> <p>1440 – Deleting to Preserve: Appraisal in the digital age - Simon Wilson, University of Hull</p> <p>1500 – Is there a gold standard and does that matter?: Barbara Sierman, The Royal Library of the Netherlands</p> <p>1520 – Roundtable discussion: chaired by William Kilbride, DPC</p>	<p>1400 – Workshop 6: Developing National Digital Preservation Infrastructure, NCDD</p>	<p>1400 – Workshop 7: Preservation Planning, Parliamentary Archives & friends</p>

1600 – Tea and coffee

1620 – Final Plenary and review of proceedings: Matthew Woollard, University of Essex

1700 – Thanks and close of Conference.



Session abstracts

Monday 17th November

1400 – Workshop 1: Digital Preservation Cost Myths, Preservica (Franks Room)

This workshop will aim to explore and challenge some digital preservation cost myths, demonstrate the importance of a digital preservation policy and introduce the “5-Step Digital Preservation Journey” to a sustainable digital archive: a practical, straightforward route to ensuring the long-term accessibility of organisations’ digital assets whilst outlining practical measures that organisations can take to ensure the long-term sustainability of their digital archives.

1400 – Workshop 2: Sustainable Digital Preservation & APARSEN: Value Propositions, Business Cases and Policy (Steel Room)

The workshop will introduce participants to outputs from the APARSEN project relating to sustainable digital preservation. This will begin with presentations and discussion around the importance of and best practice for establishing value propositions for digital preservation and the creation of business cases and policy. The workshop will conclude with a practical session on writing a well-formed digital preservation policy based on the 15 recommendations assembled by APARSEN.

Tuesday 18th November

1100 - Workshop 3: Preserving more than data -Tools demo, TIMBUS Project (Steel Room)

TIMBUS tool developers will showcase and demonstrate some of the most mature outputs from the TIMBUS Project, nearing its 4 year completion this year. The frameworks, methods, and tools developed in TIMBUS align digital preservation with Enterprise Risk Management (ERM) and iERM and Business Continuity Management (BCM). The tools demonstrated in this workshop facilitate economically sustainable preservation of both iERM and BCM.

TIMBUS is entering its final phase, consolidating the phases of frameworks and tools developed over the past 42 months into an integrated platform. This workshop offers the opportunity for attendees to see how these tools can be adapted and used in many different contexts, from corporate business to research in higher education institutions. The workshop will focus on the Open Source tools, but will demo some of the proprietary software as well.

1100 - Workshop 4: Shared preservation for archives, University of Hull (Dale Room)

The aim of the workshop is to foster discussion of how collaboration between archives might be used to guide and enable the management of born-digital archive material and associated services. Collaboration can take place at many levels, and already does in some cases, for example amongst archives in Wales. Recognising existing experience in this space, the workshop will seek to establish a framework to inform archives of the options available for



collaboration, and the areas where this may be most likely to be a beneficial use of scarce resource.

Participants will consider collaboration in a variety of areas, which might include IT infrastructure and technical development, data storage and preservation, staffing, policy and good practice, access, etc. The workshop will draw on past experience, and seek to extract good practice from this for others to benefit from.

1100 - Workshop 5: Working together and growing together, nestor (Franks Room)

Working groups, in which experts from the nestor partner institutions and other organisations work together on different topics, belong to the most valuable assets of nestor. The working groups on Policy, on Certification, and on Preservation Planning have published their results in English recently, so that they can be discussed at an international level. At this workshop, we will look more closely at the nestor preservation policy guidelines, the nestor certification process for trustworthy digital archives, and the nestor guideline for preservation planning. Each publication will be shortly introduced by a nestor member, followed by an invited response by an international expert.

1400 – Workshop 6: Developing National Digital Preservation Infrastructure, NCDD (Franks Room)

In a 2-hour workshop NCDD will present the results of the survey and share the Transition Scenarios which are developed in their research.

The workshop will demonstrate the state of the art of the Dutch infrastructure for preserving digital objects, organisational as well as technical. It also will give insight in the rough estimates of the costs of digital preservation within The Netherlands.

For the last 45 minutes of the workshop, the attendees of the workshop will elaborate on the different scenarios. The attendees will be divided into workgroups of 3 – 5 persons. The workgroups will be asked to focus each on one of the Transition scenario's, and to make an inventory of pros & cons, consider the risks involved, and to try to make a Timetable. Plenary feedback of the results of the workgroups to the workshop attendees will finalise the meeting.

1400 – Workshop 7: Preservation Planning, Parliamentary Archives & friends (Dale Room)

This workshop will showcase contemporary best practice preservation planning approaches, examine best practice risk management and cost analysis methodologies by focussing upon participation from Repository Managers and encourage wider community input into defining products for preservation planning best practice whilst fostering face to face collaboration.



Delegate List

Name		Role	Organisation
Matthew	Addis	CTO	Arkivum
Riognach	Ahern	Ingest Support Officer	The Wellcome Trust
Abdullah	Alassim	Library Director	Saudi Fund for Development
Fahd	Alsubaihi	Advisor, Documentation Centre Director	Saudi Fund for Development
David	Anderson	Professor of Digital Humanities	University of Portsmouth
Anne	Archer	Senior Archivist	Lloyds Banking Group
Kevin	Ashley	Director	Digital Curation Centre
Chris	Awre	Head of Information Management	University of Hull
Aneta	Bach	Information Manager	JPMC
Samuel	Bartle	Collections Officer	East Riding Of Yorkshire Council
Neil	Beagrie	Director	Charles Beagrie Ltd
Rob	Begley	Assistant Information and Records Manager	Parliamentary and Health Service Ombudsman
Francine	Berman	Hamilton Distinguished Professor of Computer Science	Rensselaer Polytechnic Institute
Nazlin	Bhimani	Research Support & Special Collections Librarian	Institute of Education
Juan	Bicarregui	Head Data Division	STFC
Robert	Bley	Managing Director	Ex Libris
Adjoa	Boateng	Head of Information Services	University of East London
Geoff	Browell	Senior Archives Services Manager	King's College London
Adrian	Brown	Director	Parliamentary Archives
Alexandra	Browne	Archivist	Hertfordshire Archives and Local Studies
Rachel	Bruce	Director of Technology Innovation	Jisc
Eleanor	Burgess	Records Manager	Rothschild Foundation
Lucie	Burgess	Associate Director for Digital Libraries	University of Oxford
Lisa	Chadwick	Digital Imaging Officer	University for the Creative Arts
Lisa	Childs	Senior Archive Conservator	National Museum Wales
Anna	Clements	Head of Research Data and Information Services	University of St Andrews
Karen	Colbron		Jisc
Sandra	Collins	Director of the Digital Repository of Ireland	Royal Irish Academy
Susan	Corrigall	Head of Electronic Records Unit & Copyright Officer	National Records of Scotland
Fiona	Courage	Special Collections Manager	University of Sussex Library
Carlos	Coutinho	Research Engineering Manager, Senior Project Manager	CAIXA MÃ•GICA SOFTWARE
Sonia Regina	Cunha	PhD Candidate	University of Minho



Name		Role	Organisation
Angela	Dappert	Head of Research and Practice	Digital Preservation Coalition
Sara	Day	Project Officer	DPC
Marco	De Niet	Director	NCDD / DEN
Ron	Dekker	Director Institutes, Finance and Infrastructure	Netherlands Organisation for Scientific Research (NWO)
Janet	Delve	Principal Lecturer	University of Portsmouth
Robert	Dickinson	Digital Access Officer	English Heritage Archive
Ingrid	Dillo	deputy director	DANS
Paul	Dudman	Archivist	University of East London
Luis	Faria	Innovation Director	KEEP SOLUTIONS
Ed	Fay	Executive Director	Open Planets Foundation
Miguel	Ferreira	CEO	KEEP SOLUTIONS
Ingmar	Folkmans	Project Manager, Publishing	Independent
Helen	Ford	Archive Manager	University of Warwick
Colm	Forde	AV Archivist	Freelance
Christopher	Fryer	Senior Digital Archivist	Houses of Parliament
Magdalena	Getler	Curation Services Officer	DCC, The University of Edinburgh
Lorna	Goodey	Information Architect	Barnardo's
Dolores	Grant	Digital Archivist	Digital Repository of Ireland
Jessica	Green	Digital Curator	Wiener Library for the Study of the Holocaust and Genocide
Neil	Grindley	4C Coordinator	Jisc
Jacqui	Gupta	Lead Technologist	BBC
Katarina	Haage	Scientific assistant	German National Library
Catherine	Hardman	Deputy Director	Archaeology Data Service
Michael	Harrison	Director	Scripti Limited
Jane	Harvell	Head of Academic Services and Special Collections	University of Sussex
Mike	Harwell	Vice President of Sales	HW Wilson & Historical Digital Archives
Birgit	Henriksen	Head of Digital Preservation	
Anna	Henry	Digital Preservation Manager	Tate
Lee	Hibberd	Digital Preservation Officer	National Library of Scotland
Sarah	Higgins	Lecturer	Aberystwyth University
Simon	Hodson	Executive Director	CODATA
Sarah	Horton	Archives Development Adviser	CyMAL: Museums Archives and Libraries Wales
Kathrine	Hougaard Edsen Johansen	Digital Preservation Officer	Danish National Archives
Vera	Hubers	Project assistant	NCDD
Melanie	Imming	Projects Manager	LIBER



Name		Role	Organisation
Charles	Inskip	Lecturer, Library and Information Studies	University College London
Carol	Jackson	Business Manager	DPC
Eduard	Jacob	Retired neurologist - psychiatrist	alumnus UVA en UU
Cassandra	Johnson	Archivist	Dorset History Centre
Margaret	Katny	Senior Media Manager	BBC Archives
Ulla Bogvad	Kejser	Preservation Specialist	The Royal Library, Denmark
William	Kilbride	Exec Director	DPC
Martine	King	Archive Manager	Barnardo's
Robin	Koning	Communications Specialist	Development Workshop (Angola/Canada)
Jaana	Krupp	digital archive specialist	National Library of Estonia
Chris	Lacinak	President	AVPreserve
Pip	Laurenson	Head of Collection Care Research/Lead for Pericles and Presto4U for Tate	Tate
Louise	Lawson	Conservation Manager	Tate
Deborah	Leem	Digitisation Support Officer	Wellcome Trust
Juha	Lehtonen	Applications Architect	CSC - IT Centre for Science
Herve	L'Hours	Preservation Manager	UK Data Archive
Linda	Ligios	Community of Practice Coordinator (Presto4U)	King's College London
Ann	MacDonald	University Archivist	University of Kent
Rachel	MacGregor	Collections Curator	Library of Birmingham
Caroline	Martin	Digital Preservation Co-ordinator	University of Manchester Library
David	McElroy	Research Data Management Officer	University of East London
Sharon	McMeekin	Head of Training and Skills	Digital Preservation Coalition
Darryl	Mead	Deputy National Librarian	National Library of Scotland
Sarah	Middleton	Head of Communications and Advocacy	DPC
Jenny	Mitcham	Digital Archivist	University of York
Laura	Molloy	Researcher	DCC at University of Glasgow
Panagiotis	Papageorgiou	PhD candidate	University of Portsmouth
Naomi	Paulus	Account Manager	OCC
Maureen	Pennock	Head of Digital Preservation	British Library
Elisa	P. Barrett	Independent Digital Humanities Researcher	
Michael	Popham	Head of Digital Collections & Preservation Services	Bodleian Libraries, University of Oxford
Diogo	Proença	Researcher	INESC-ID
Marcel	Ras	Program Manager NCDD	NCDD
Menno	Rasch		National Library of the Netherlands
Joseph	Ripp	Librarian	National Portrait Gallery



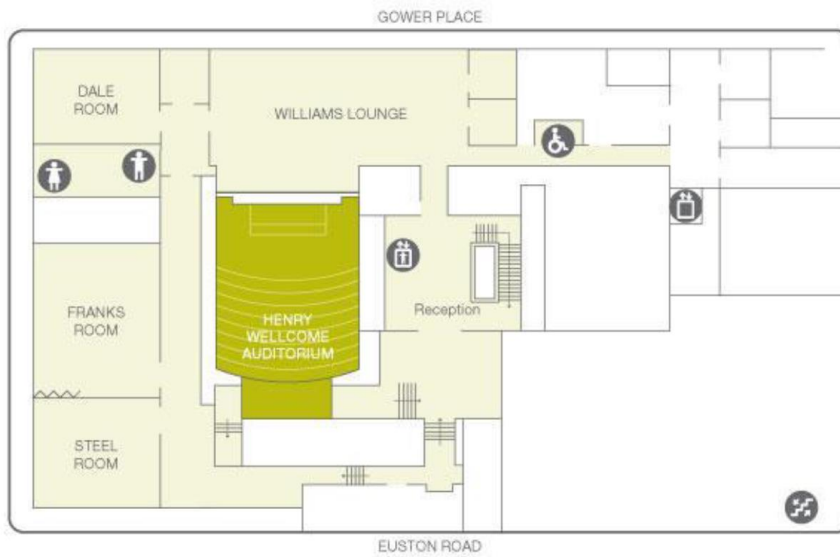
Name		Role	Organisation
David	Rosenthal	Chief Scientist	LOCKSS Program, Stanford
Lynda	Ross	Digital Preservation Programme Manager	National Records of Scotland
Jill	Russell	Head of Digital Assets	University of Birmingham
Raivo	Ruusaalepp	Director of Development	National Library of Estonia
Ben	Ryan	Senior Manager Research Outcomes	EPSRC
Madis	Saluveer	Head Dept of Research Funding	Estonian Research Council
Jamie	Shiers	Project Manager, Data Preservation for High Energy Physics	
Rebecca	Short	Assistant Records Manager	University of Westminster
Barbara	Sierman	Digital Preservation Manager	KB National Library of the Netherlands
Diana	Sisu	Customer Relationship Manager	Digital Curation Centre
Patricia	Sleeman	Archivist	UNHCR
Victoria	Sloyan	Assistant Archivist - Collecting Genomics	Wellcome Library
Marius	Snyders	Managing Director	PrestoCentre
Paul	Stokes	4C Coordinator	Jisc
Armin	Straube	nestor manager	German National Library
Stephan	Strodl	Researcher	SBA Research
Catherine	Taylor	Head Archivist	Rothschild Foundation/National Trust
Rebekah	Taylor	Archivist & Special Collections Officer	University for the Creative Arts
Stephanie	Taylor	Senior Consultant, ULCC	ULCC
Alex	Thirifays	Digital preservation specialist	Danish National Archives
Wyn	Thomas	Librarian - CONSER Co-ordinator	National Library of Wales
Dave	Thompson	Digital Curator	Wellcome Library
Johan	van der Knijff	Digital Preservation Researcher	National Library of the Netherlands
Joost	van der Nat	researcher	NCDD
Benjamin	Veasey	Digital Preservation Officer	University of Warwick
Ricardo	Vieira	Researcher	IST/INESC-ID
Antoine	Villette	CTO	Musée Picasso Paris
Simon	Waddington	Research Fellow	King's College London
Ian	Wakeling	Records Archive and Data Protection Manager	Children's Society
Natalie	Walters	Archives Project Manager	Wellcome Library
David	Wang	Researcher	SBA Research
Becky	Westbrook	Preservation Team Coordinator	
Paul	Wheatley	Digital Preservation Consultant	Paul Wheatley Consulting Limited
Nicky	Whitsed	Director of Library Services	Open University
Lorna	Williams	Senior Archivist	Bank of England
Simon	Wilson	Senior Archivist	University of Hull
Andrew	Wilson	Senior Research Fellow	University of Portsmouth



Name		Role	Organisation
Kate	Wittenberg	Managing Director	Portico
Matthew	Woollard	Director	UK Data Archive
Kay	Young	Information Records Manager	PHSO
Karla	Youngs	National services director	Jisc



Venue information





Cloakrooms are available in the lobby outside the Williams Lounge, and on the ground floor.


Complimentary Wi-Fi is available throughout the venue. To access this, use the code: **autumn14**

Remember to follow the conference and tweet using the hashtags:
#IIO2014, #4ceu, #DPC









Find out more...


The 4C Project

4C helps organisations across Europe to invest more effectively in digital curation and preservation. Research in digital preservation and curation has tended to emphasise the cost and complexity of the task in hand.

4C reminds us that the point of this investment is to realise a benefit, so our research must encompass related concepts such as ‘risk’, ‘value’, ‘quality’ and ‘sustainability’. Organisations that understand this will be more able to effectively control and manage their digital assets over time, but they may also be able to create new cost-effective solutions and services for others.

Contact

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 Tel: + 44 (0)1904 567654 Email: info@4cproject.eu
 Web: www.4cproject.eu and www.curationexchange.org



The Digital Preservation Coalition


The Digital Preservation Coalition (DPC) exists to make our digital memory accessible tomorrow. The Coalition enables members to deliver resilient long-term access to digital content and services, helping them to derive enduring value from digital collections and raising awareness of the attendant strategic, cultural and technological challenges they face. We achieve our aims through advocacy, workforce development, capacity-building and partnership.

The DPC pursues four strategic objectives:

- A political and institutional climate responsive to the need for digital preservation.
- Competent and responsive workforces ready to address the challenges of digital preservation.
- Better tools, smarter processes and enhanced capacity in digital preservation.
- Closer and more productive collaboration within and beyond the Coalition.

Contact

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Figure 3—Conference Information Pack