







A Virtual Research Community for the Preservation of Digital Cultural Heritage – Welcome and Introduction

Antonella Fresa Technical Coordinator of DCH-RP Promoter Srl



Agenda



- 16:50 17:00 Welcome and introduction (Antonella Fresa, Promoter Srl)
- □ 17:00 17:05 EUDAT: last achievements and next steps (Norbert Meyer, Poznan Supercomputing and Networking Center)
- 17:05 17:10 SCAPE and SUCCEED: last achievements and next steps (Hildelies Balk, National Library of the Nedherlands)
- 17:10 17:15 APARSEN and SCIDIP-ES: last achievements and next steps (David Giaretta, Alliance for Permanent Access)
- 17:15 17:20 CHAIN REDS: last achievements and next steps (Federico Ruggeri, INFN / GARR, Italy)
- □ 17:20 17:35 Discussion. Towards a Virtual Research Community for the Preservation of Digital Cultural Heritage: topics and ways of cooperation (use cases, MoUs, etc.), target users, features and services to be provided, interoperability issues



Objectives of the Session

- A network of projects and initiatives working worldwide in the domain of DCH, digital arts, digital performances, digital humanities, digital preservation and e-infrastructures was born during the EGI Community Forum in Manchester
- This session intends to continue the discussion which was carried out in the last months through a series of joint events when we tried to identify common goals, strategies and synergies between the projects
- Now, we would like to progress in setting up a common plan for establishing a **Virtual Research Community** for the preservation of DCH, to be acknowledged at European level by the world of e-infrastructure and to target the opportunities offered by Horizon2020



DCH-RP Workshop the creation of a Virtual Research Community dedicated to the cultural heritage and the humanities

EGI Community Forum 2013 in Manchester

Between 8th and 12th of April 2013, EGI.eu and UK NGI, a partnership between GridPP and the National e-Infrastructure Service (NES), hosted the Community Forum 2013. The event,

which was hold in Manchester in conjunction with the 3rd EMI Technical Conference, was very successful and provided a great opportunity to reflect upon the growing diversification in usage of the European Grid Infrastructure from across all research disciplines as well as the widening international collaboration that is taking place. Continue reading \rightarrow



Panel discussion chaired by Wim Jansen (DG Connect, EC) at the International Conference on Theory and Practice of Digital Libraries TPDL 2013

eInfrastructures and Digital Libraries... the Future @ TPDL 2013

Towards an e-infrastructure for the Digital Cultural Heritage sector and the

humanities research: which are the needs and the requirements of the DCH? How can this sector benefit from the new and innovative solutions offered by the e-Infrastructures?

Experts tries to answer these question. Continue reading -



DCH-RP workshop organised in the frame of the 2nd EUDAT International Conference

Digital Preservation of cultural data @ EUDAT, Rome

The need for novel more efficient and affordable solutions for digital preservation is increasing in the Social Science and Humanities. Aim of the workshop is to share and present the

advancements in the state of the art, to understand which could be the benefits offered, in particular to the Digital Cultural Heritage sector, by the new technologies and e-infrastructures. Continue reading \rightarrow



Networking session at the ICT2013 Conference in Vilnius

A Virtual Research Community for the Preservation of Digital Cultural Heritage @ ICT 2013, Vilnius

Objective of the session, organised by DCH-RP, SCIDIPES, APARSEN, EUDAT,

CHAIN REDS, DARIAH, DASISH and CLARIN, is to bring together projects and initiatives working world-wide in the domain of DCH, digital arts, digital performances, digital humanities and digital preservation to find synergies and discuss opportunities for cooperation, in particular around the theme of using e-infrastructures for the preservation of DCH. Continue reading →

CH and the e-infrastructures



CH needs and requirements	Benefit of the e-infrastructures
High investment in the production of DCH data due to the need of human intervention of experts.	To allow for cost reduction in digitisation, cataloguing and metadata generation by substituting expensive human workforce with cheaper machine processes
High costs of digital preservation , due also to the use of separate solutions, mostly implemented each time by each memory institution.	To support the permanent identification of digital cultural objects and providers
Several different kind of information, different formats : 2D images and 3D models, metadata, publications, digital exhibitions, virtual reconstructions, etc.	To facilitate storage and preservation , ranging from short- medium- and long-term
	To improve search facilities to manage semantic search and linked open data
Contextual data are complex and very important for cultural research.	To enhance processing and visualisation of complex cultural data (e.g. 3D modelling and VR representations) through the computing resources offered by research e-infrastructures (grid, cloud)
Even if growing very rapidly, the actual size of this content is still rather small (if compared for example to the amount of data produced by other scientific domains).	To enable dynamic distributed virtual organisations, facilitating collaboration with information and resource sharing (e.g. virtual conferences, document sharing, blog and cooperation platforms, etc.)
The digitisation process is unique cannot be replicated unless the whole work is done from scratch.	To contribute to standardisation in the data world, e.g. by developing a common reference model for the DCH sector



An infrastructure dedicated to the cultural heritage



- The longer term plan is to implement a dedicated CH infrastructure able to provide distributed safe storage, seamless powerful access, effective preservation services to a "continuum" of data coming from the largest number of small and big cultural institutions
- This infrastructure should be able to aggregate and interoperate existing features as well as services that are under development, often (unfortunately) following separate ways

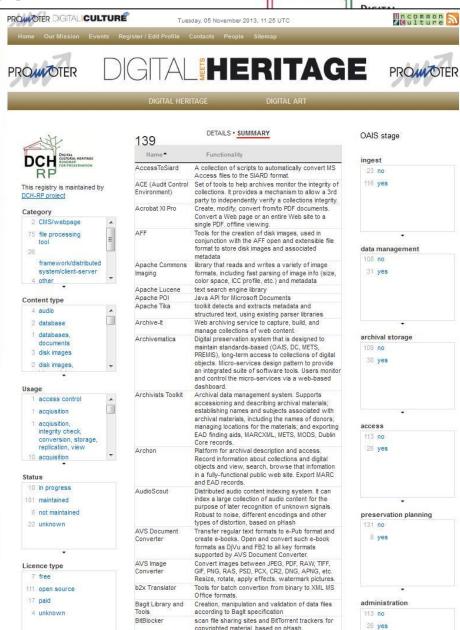
Target users:

- Cultural institutions that own digital cultural repositories (e.g. museums, libraries, archives)
- Individuals (e.g. researchers, scholars, teachers, students)
- Teaching and learning bodies (e.g. schools, training centres, university courses)
- Cultural and creative industry interested to use and re-use DCH content
- **Private archives**, providing commercial access to content



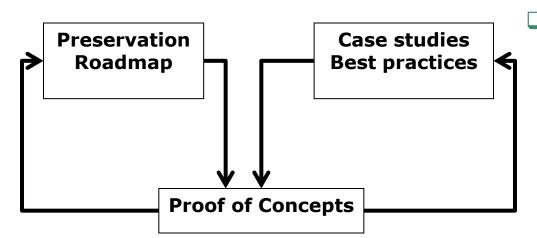
DCH-RP: first outcomes

- A registry of Services was implemented and published online
- The first Proofs of Concept is just been completed: cultural institutions experimented the actual use of distributed computing and storage infrastructures (such as the e-Culture Science Gateway: http://ecsg.dch-rp.eu/) to store and manage cultural digital resources, starting from real scenarios and use cases
- The first version of the **Roadmap** will be released next month



DCH-RP: first outcomes





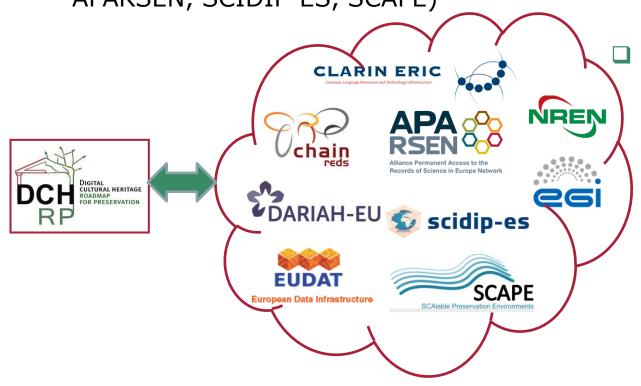
- Description of the control of the co
- Security of the data is very important for cultural institutions: trust building is a key factor when it is not determined where data are stored
- Functionalities and services offered by e-infrastructures should not impact on the outgoing traffic of the institution
- Access to the e-infrastructure services should be **simple** without requiring IT specialist knowledge



DCH-RP: what's next?



□ For the second Proof of Concept DCH-RP is planning to experiment with services offered by other projects (e.g. EUDAT, APARSEN, SCIDIP-ES, SCAPE)



We are looking for other new services to be used with data made available by the cultural institutions participating the second Proof of Concept



A new challenge: controlling the file formats



- Migration of digital objects into new formats is the most used long-term digital preservation strategy adopted by the memory institutions. In order not to loose information during the conversions, it is of vital importance to fully control the file formats.
- Metadata is normally stored in XML and specified in different schemas controlled by the community of professional curators through international organisations.
- Data content are normally stored in specific file formats for documents, images, sound, video etc. which are usually produced by software from different vendors.
- Even if files are in standard formats, the implementation of standards cannot be guaranteed because the software implementing standards for the production of the electronic files is not in control neither by the institutions that produces it nor by the memory institutions



PREFORMA: Future Memory Standards



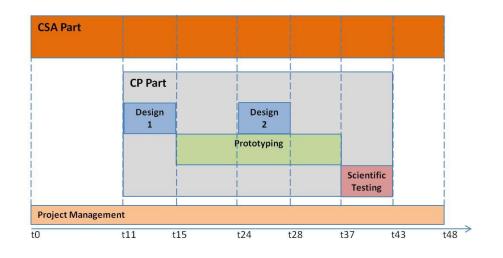
- PREFORMA (under negotiation) will start next year to launch a PCP for the provision of a set of open source tools to check the conformance of digital archives implemented in the most common file formats for documents, images and AV content.
- ☐ The PREFORMA consortium is composed by:
 - Swedish National Archives Project Coordinator
 - Promoter Dissemination and Communication Leader
 - University of Padua, Fraunhofer, University of Skovde and Packed responsible for the technical specifications and the assessment of the tender
 - 9 memory institutions providing requirements and evaluating the results:
 Sound&Vision, KIK-IRPA, Greek Film Center, Local Government
 Management Agency, SPK, Ayuntamiento de Girona, Estonian Ministry of
 Culture, National Library of Sweden + Swedish National Archives
- R&D suppliers that will be selected by open tender procedure and they will act as subcontractors of the memory institutions



Call for tender



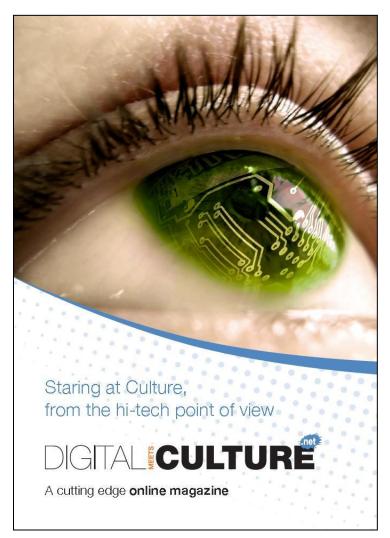
- March 2014: Pre-announcement of the Call
- April 2014: Info day
- June 2014: Deadline for submission of the offers
- December 2014: Selection of the winner suppliers and start of the work
- Budget to be spent in the tender: 2.880.000 euro





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- tales and talks, as well as amazing multimedia contents, for a broad perspective of the latest in digital art;
- . Up to date showcases of the ongoing most relevant acts in the field.

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Thank you!

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