



Digital Cultural Heritage Preservation

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EGI-CF13

Manchester, 10/4/2013

Content



- Scope of the workshop
- Introduction to DCH-RP project

Scope of the workshop



- ❑ To bring together projects and initiatives in the domain of the digital preservation, with a specific focus on digital cultural heritage, digital arts, digital performances and digital humanities
- ❑ To identify common goals, strategies, to find synergies, to discuss opportunities for cooperation
- ❑ To progress towards establishing a Virtual Research Community for DCH and to prepare for Horizon2020.

Themes for discussion



- Envisaged architecture
- Federated identity services
- Standards
- Interoperability with other infrastructures
- How can the DCH community profit of the e-infrastructure we are building → networking, communication, stakeholders consultation
- To establish a common MoU

Digital Preservation



- ❑ Implementation of a preservation infrastructure is among the **first priorities** for the DCH sector
- ❑ Preservation is defined in this context as the combination of:
 - **digitised content** (the result of digitisation processes)
 - **born-digital content** (databases, catalogues, files, etc.) a
 - **metadata**
- ❑ Each digitisation programme is currently addressing the issue of preservation in a separate manner, while a **shared implementation** of common e-Infrastructure layers could be beneficial and cost effective to all

DCH-RP Project



□ FP7 Coordination Action

– 13 partners from 7 European Countries

□ **24 months** of duration

□ **Total effort:** 118 person-months

Consortium



DCH and National Authorities

ICCU (IT)
BELSPO (BE)
RIKSARKIVET (SE)
EVK (EE)
CT (UK)

E-INFRASTRUCTURES

INFN (IT)
PSNC (PL)
NIIFI (HU)

INTERNATIONAL ORGANISATIONS

TERENA (NL)
EGI.eu (NL)
MCA (BE)

PRIVATE SECTOR

PROMOTER (IT)
EDiEUR (UK)

Key features

- Built upon the knowledge generated by **DC-NET** and **INDICATE**



- Focus on:

- preservation of **digital representation** of cultural objects (not preservation of physical cultural objects)
- **storage phase**, which includes both 'long-term preservation' (including dark archives) and 'short-term preservation' (storage for a relatively short period of access)
- **existing research e-infrastructure** as an efficient channel for the delivery of advanced services to the digital cultural heritage

Expected outcomes



- The main outcome will be a **Roadmap** for the implementation of a preservation infrastructure for DCH
 - supplemented by **practical tools** for decision makers, including:
 - best practice to promote future **interoperability** and the adoption of common **standards**, tools, approaches and business models
 - the design of a new **trust model** suitable for the case of e-infrastructures
 - recommendations for user **authentication** and **access control** system(s) and for engaging with **commercial** partners
 - validated through a range of proofs of concepts, where cultural institutions and e-Infrastructure providers will work together on concrete experiments
- DCH-RP Roadmap is intended as one instance of the Open Science Infrastructure for the research in the **digital humanities** in 2020

Preservation Roadmap



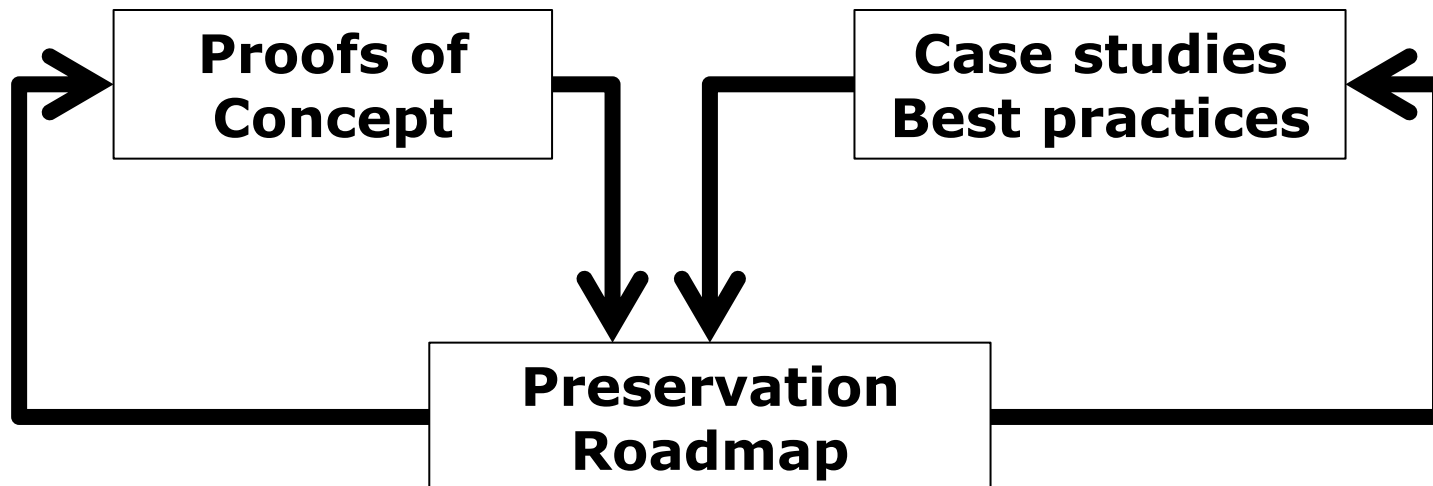
- ❑ Designing a preservation Roadmap for DCH implies:
 - to develop a **registry of services and tools**
 - to investigate how **Infrastructure as a Service** can contribute to digital preservation services for DCH
 - to explore the state of art in cultural heritage and e-Infrastructure
 - to consider how **standards and interoperability** principles can be adopted by the cultural heritage and e-Infrastructure communities

- ❑ DCH-RP Roadmap aims to remain **valid for several years** starting around 2015 until 2020
 - as much as possible **independent** of concrete current e-infrastructure realisations and DCH contents

- ❑ Validated through **proofs of concepts** that will
 - allow the DCH community to provide requirements and feedbacks and contribute to steer the development of the Roadmap

A virtual cycle

- Through the **Proofs of Concepts** cultural institutions and e-Infrastructure providers experiment the actual use of distributed computing and storage infrastructures (NREN, grids, clouds, newer data infrastructures) to store and manage cultural digital resources, starting from the targeted specific services identified in the Roadmap for preservation and from real scenarios and user stories provided by the cultural institutions



Proofs of concept



- ❑ **Italy** with e-Infrastructure facilities provided by INFN and data provided by ICCU
- ❑ **Poland** with e-Infrastructure facilities and data provided by PSNC
- ❑ **Hungary** with e-Infrastructure facilities provided by NIIFI and data provided by Hungarian Cultural Institutions that will cooperate with NIIFI
- ❑ **Sweden, Belgium and Estonia**, with e-Infrastructure facilities provided by the respective National Grid Initiatives exploiting the Memorandum of Understanding signed in the frame of DC-NET and data provided by DCH-RP partners

Target audience



- ❑ **Content providers**, who need the infrastructure to preserve their content and a solid Roadmap as a reference for taking decisions (e.g. cultural managers of national institutions and libraries, small institutions, private and public publishers, etc.).
- ❑ **Policy makers** and **programme owners** at different levels (national, regional and local), who invest in the construction of research infrastructures and need guidance before deciding on future actions.
- ❑ **Final users**, who need the infrastructure to get safe access to data for their research (e.g. researchers, practitioners, students and amateurs)
- ❑ The **e-infrastructure providers** and the R&D institutions active on digital preservation

Web presence



- ❑ DCH-RP has chosen a range of instruments to achieve a strong **web presence**, both for the cooperation among the partners and for the project's communication:
- ❑ eCulture Science Gateway: ecsg.dch-rp.eu
- ❑ Cooperation space at: documents.egi.eu
- ❑ Project website: www.dch-rp.eu
- ❑ Showcase at: www.digitalmeetsculture.net

eCulture Science Gateway



- The ECSG will support the execution of the experiments carried out in the DCH-RP Proofs of Concept

A screenshot of the DCH-RP e-Culture Science Gateway website. The page has a blue header with the DCH RP logo on the left and 'Register Sign In' on the right. Below the header is a banner image showing a collage of cultural heritage elements: a red and blue abstract shape, a stack of yellow boxes, musical notes, a classical building, and a bookshelf. The main content area is divided into two columns. The left column contains a 'Welcome' section with links for 'How to Register and Sign-in', 'Proofs of Concept', and 'Back to the DCH-RP website'. Below this is a social media section with 'Follow' buttons for Facebook and Twitter, and a 'Like' button for Facebook. The right column features a 'Welcome to the DCH-RP e-Culture Science Gateway' section with a brief description of the gateway as a standard-based web 2.0 demonstrative platform. Below this is a paragraph about data storage on the European Grid Infrastructure. At the bottom of the right column, there is contact information for the DCH-RP Project (c/o ICCU, viale Castro Pretorio, 105, 00185 Roma, Italy, tel. + 39 06 49210427) and links for 'Privacy Policy' and 'Terms of Use'. It also states 'This is a Service Provider of:' followed by logos for the European Commission and the Italian Government. At the bottom, it says 'Developed and maintained by INFN Catania' and 'Powered By Liferay'. A copyright notice 'Copyright 2013 DCH-RP Project' is at the very bottom.

Cooperation space



- The Cooperation space of DCH-RP is based on the cooperation services offered by EGI

The screenshot shows the EGI Document Server interface. At the top left is the EGI logo and the text 'European Grid Infrastructure Towards a sustainable grid infrastructure'. A search bar contains the word 'preservation'. On the left is a navigation menu with items like 'About us', 'User Support', 'Technology', 'Policy', 'Infrastructure', 'Publications', 'Projects', and 'Collaborations'. The main content area is titled 'Document Server' and includes a 'Restricted area' notice with a 'Logout' link and a user login status 'Logged in as antonella fresa'. Below this is a 'Document List by Topic' section with links for '[DocDB Home]', '[New]', '[Search]', '[Last 20 Days]', '[List Authors]', '[List Topics]', '[List Events]', and '[Help]'. It states 'These documents on DCH-RP project and sub-topics are available:' and offers a 'Restrict search' option. A table lists three documents:

EGI-doc-#	Title	Author(s)	Topic(s)	Last Updated	Status
1602-v1	DCH-RP mapping to EGI NGIs and RPs	Michel Drescher	DCH-WP5 DCH-RP	26 Feb 2013	DRAFT
1599-v1	DCH-RP D3.1 - Study on a Roadmap for Preservation	Michel Drescher	DCH-RP DCH-WP3	22 Feb 2013	DRAFT
1594-v2	Venice Plenary Meeting (14-15 February 2013)	Claudio Prandoni	DCH-WP1 DCH-RP	20 Feb 2013	DRAFT

Project web site



- ❑ The project website aims to present the project partners, objectives, activities and main results
- ❑ Target users: DCH experts from museums, archives, libraries and other cultural institutions, scientists, national authorities, content-contributing community, government and policy bodies, private (publishing) sector

Home Help Site map Search English

DCH RP DIGITAL CULTURAL HERITAGE ROADMAP FOR PRESERVATION

About
Work packages
Partners and contributors
Working groups
Documents and deliverables
e-Culture Science Gateway
EU related projects
Join our community
Dissemination
Events archive
News archive
Reserved Area

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DIGITAL CULTURE

DCH-RP Digital Cultural Heritage Roadmap for Preservation is a coordination action supported by EC FP7 e-Infrastructures Programme, launched to look at best practice for preservation standards in use.

The project aim to harmonize data storage and preservation policies in the digital cultural heritage sector; to progress a dialogue and integration among institutions, e-Infrastructures, research and private organisations; to identify models for the governance, maintenance and sustainability of the integrated infrastructure for digital preservation of cultural content.

It involves 13 partners from EU countries and will move to external partners from Europe and other countries.

Events

[Venezia: DCH-RP Second Plenary Meeting](#)
14-15 February 2013

[Maastricht: TERENA Networking Conference \(TNC\)](#)
3-6 June 2013

[Manchester: EGI Community Forum 2013](#)
8-12 April 2013

[Taipei: International Symposium on Grids and Clouds \(ISGC\) 2013](#)
17-22 March 2013

[Rome: ARIADNE \(Advanced Research Infrastructure for Archaeological Dataset Networking in Europe\)](#)
7 - 9 February 2013

DCH-RP Show-case on digitalmeetsculture.net



- ❑ www.digitalmeetsculture.net is an interactive online platform for cooperation and information in the field of digital technologies applied to cultural heritage and the arts
- ❑ The show-case of DCH-RP provides general information about the project, link to the project website and to each partner's website, contacts, auto-refreshing news via RSS, **articles on the project and on related topics**

Conclusions



- ❑ DCH-RP is one step, belonging to a longer process.
- ❑ In the last decades, cultural institutions started to move their cultural content on the digital world. This has implied to know new instruments, new rules of access, new standards to exhibit digital heritage, new ways of communication.
- ❑ The amount of digital cultural content is now so valuable that the issue of preserving the digital cultural heritage is becoming as much urgent as the preservation of tangible heritage.
- ❑ The national policies about cultural preservation (digital and tangible) needs to re-use best practices, to share solutions, to avoid duplication of efforts.
- ❑ The use of the e-infrastructures is a pillar in this direction and the cultural heritage sector should progress towards its full integration in the new concept of open science.



Thank you!

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