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Project Co-ordinator

Company name: Istituto Centrale per il Catalogo Unico (ICCU) Name of representative: Rosa Caffo Address: Viale Castro Pretorio 105, I-00185 Roma Phone number: +39.06.49210427 Fax number: +39.06. 06 4959302 E-mail: rosa.caffo@beniculturali.it Project WEB site address: http://www.dc-net.org

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1 Executive summary

This document presents the deliverable 6.2 "Report about initial implementation of joint activities" of the DC-NET project; it provides the state of advancement of the implementation of the Joint Activities Plan, as described in D6.1 "Joint Activities Plan", at the end of the DC-NET project.

The text consists of the following sections:

- 1. Executive Summary;
- 2. Background, which illustrates the preparatory work and the Joint Activities Plan;
- 3. **Training**, which describes the preparation of the cultural institutions about the eInfrastructure potential as well as the information material produced;
- 4. the joint activity upon the technical validation of the 7 research priorities;
- 5. The Joint Programming Initiative for Cultural Heritage, which clarify the tight relationship between DC-NET and JPI-CH;
- 6. **Priority 1 Long term preservation** describes the first set of joint activities carried out on this topic;
- 7. The **Commitment Decision** agreed among the participating Member States, for the continuation of the DC-NET Joint Activities after the end of project;
- 8. Conclusions.

2 Background

The deliverable 6.1 "Joint Activities Plan" illustrates the plan that the DC-NET network of common interest intends to put in place in the near future. They are here summarized.

This Joint Activities Plan (JAP) benefited from the preparatory work of all WPs: WP1 established the network of common interest; WP2 raised the awareness of the eInfrastructure context by cultural institutions and provided the legal framework to foster the interaction between the DCH sector and the eInfrastructure (the Memorandum of Understanding and the International Memorandum of Understanding); WP3 defined the most "hot" topics for the research in digital cultural heritage; WP4 evaluated the technical feasibility of these priorities; WP5 Dissemination supported the enlargement of the network and the diffusion of inputs and outcomes.

Over and above the integration of the results of the work-packages, the DC-NET consortium also engaged with third party stakeholders, in order to prepare the future expansion.

The **policy background** is the first step that the partners prepared; it includes:

- the position paper by DC-NET and Linked Heritage for the EC Open Consultation on the Green Paper on a Common Strategic Framework for Future Research and Innovation Funding;
- the Budapest conference conclusions;
- the meeting with the Member States Expert Group to get their views.

The project progresses and the policy background both contributed to the definition of the Joint Activities Plan, which is based upon three complementary axes: **networking**, **services**, **research**.

Networking. The DC-NET network of common interest will continue to grow and be reinforced. The Network is composed of the partners of the DC-NET project, the organizations who signed the Agreement to join the DC-NET project, other organizations who declare their interest to cooperate with the aims and the objectives described in the scope of the DC-NET project. They contribute in cash and/or kind to the implementation of the Joint Activities Plan.

"The DC-NET Network has already established cooperative links with other initiatives connected with digital cultural heritage, who can contribute to the achievement of the implementation and dissemination objectives of the Network. This process of growth is a part of the JAP.

Important cases of existing and/or forecast cooperation are:

- Linked Heritage project
- INDICATE project
- CHAIN project
- NRENs and NGIs that signed the MoU during DC-NET (listed below)
- The future DARIAH ERIC
- MICHAEL Association"¹

Moreover, contacts with the Joint Programming Initiative for Cultural Heritage (JPI-CH) have been established thank to the inclusion of DC-NET in the JHEP, the coordination action in support of the implementation of the JPI.

An important element of the networking activity carried out by the DC-NET consortium is the further developing of the relationships with the eInfrastructure providers which has been built upon the Memorandums of Understanding that has been subscribed with the concerned parties during the project lifetime (see D 6.1, paragraph 8.3.1).

¹ From D6.1 paragraph 8.3.1.

The eInfrastructure providers played an important role in the national workshops which has been the major tool to train cultural institutions about the advanced services provided by eInfrastructures (see below paragraph 3.2) that constituted the core of the initial joint activities.

The DC-NET partners will continue the clustering activity also beyond the end of the project thanks to voluntary self-financing during the period 2012-2013; afterwards, it is foreseeable that the DC-NET Network is fully established and it has elaborated a sustainability plan which will include the core of the networking activities (seminars, cooperation and dissemination). The funding sources of this activity are the programmes highlighted by partners and described in D6.1, chapter 7.

Services, research². As to the research and services activities planned in the JAP, they reflect the priorities of the network partners as expressed in D3.1, validated in D4.1, and benefit from the contribution of external third parties. This part of the JAP is influenced by the work of projects such as Linked Heritage, INDICATE, DARIAH and the Europeana family.

DCH-RP

4

6

ADVANCED SEARCH

AUTHENTICATION &

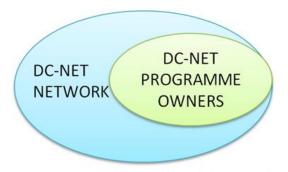
ACCESS CONTROL

INDICATE

1

DC-NET

DARIAH



- 1. Preservation is the object of study Programme owners are a subset of the network jointly assigned by the DC-NET partners as well as a project proposal within FP7 (see below chapter 5).
- Persistent identifiers: almost all DC-NET partners participate in the Linked Heritage project (see D6.1, paragraph 6.1) which is carrying out research activities on this topic. The theme will be presumably included in one of the calls that is being designed within JPI-CH/JEHP.
- 3. Interoperability and aggregation: improved services for aggregation are the most

PERSISTENT IDENTIFIERS

INTEROPERABILITY &

Family

AGGREGATION

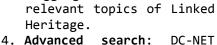
Linked

Heritage

LONG TERM PRESERVATION

2

3



share with the INDICATE project part of the consortium. One of the pilots of INDICATE is demonstrating the deployment of a semantic search and enrichment process using a cloudbased platform. The of this results pilot will be available in the second half of 2012 and will represent the starting point for а

further pilot to be launched in 2013.

- 5. Data resource set up: The DC-NET JAP will define a roadmap of best practice in the establishment of data resources on an eInfrastructure platform.
- 6. User Authentication and Access Control: INDICATE is currently working on a position paper, to be discussed at the next TERENA Networking Conference in Reykjavik in May 2012, about the creation of a network of Identity Providers for the DCH Community to be connected to the major Identity Federations, such as IDEM and EDUGAIN (which is in fact an inter-federation).

² See D6.1 paragraph 8.4 for further details.

7. **IPR and Digital Rights Management**: the plan for this priority is mostly focused on the re-use of available technologies and solutions. Thus, the JAP activities planned here focus on the publication of best practice reports.

All the activities here described, together with the technical validation delivered by WP4, are the result of the synergy between the national eInfrastructure providers and the programme owners, i.e. the culture ministries which are the core partners of the project.

The DC-NET consortium is also planning joint calls upon the research priorities that will happen within the JPI-CH and the related support action JHEP.

Some of the actions planned in the Joint Action Plan have been already started up: the national information and training seminars, the relationship with the JPI-CH/JHEP, and the joint actions on priority 1 (long term preservation).

3 Training

Training of cultural heritage actors in the topics covered by DC-NET is central to the impact of the project into the future because raising the awareness of cultural stakeholders about eInfrastructure will bring benefits for both: cultural institutions may profit of advanced digital services, eInfrastructure providers will explore new markets.

To prepare cultural institutions, the DC-NET consortium decided to act following these two integrated approaches:

- 1. preparing training material
- 2. organising national training workshops

The importance of the user involvement (the cultural institutions, in this case) into a research and innovation process was also recognised by the DC-NET consortium in the Position Paper elaborated with the Linked Heritage partners in response to the Public Consultation about the Green Paper on a Common Strategic Framework for future EU Research and Innovation Funding³ (May 19, 2011):

Users involvement: the success factor

The involvement of the users in each phase of the research, development and innovation processes is a determining factor for the success of the new ventures. Users should be actively involved in pilots, awareness and training activities possibly on a regular basis, in each project.

This aspect is particularly relevant for the cultural heritage sector that is moving into ICT technologies very rapidly and is therefore require even higher attention to the involvement of its users in the innovation processes.

3.1 Training material

The DC-NET consortium, as first action to raise awareness by cultural institutions, decided to make up a section of the project website: this is the 'Learn about eInfrastructure' menu item⁴ that gathers information about the different kinds of infrastructures (National Research and Education Networks, GRID, NGIs), the main national and international related initiatives, as well as links to external websites and documents. It is organised as follows (Fig. 1):

Learn about eInfrastructure

- **Tutorial** (this section includes some information produced in the framework of DC-NET project)
- **NREN and other eInfrastructures** (this section is devoted to the link to NREN and other e-Infrastructure providers that cooperate with the DC-NET project)
- *Identity Federations* (explanation of the eInfrastructure service about Identity Federation)
- Useful documentation (external links)
- e-Culture Science Gateway (external link to the INDICATE project pilot)

³ <u>http://www.dc-net.org/getFile.php?id=300</u>

⁴ <u>http://www.dc-net.org/index.php?en/183/learn-about-e-infrastructure</u>

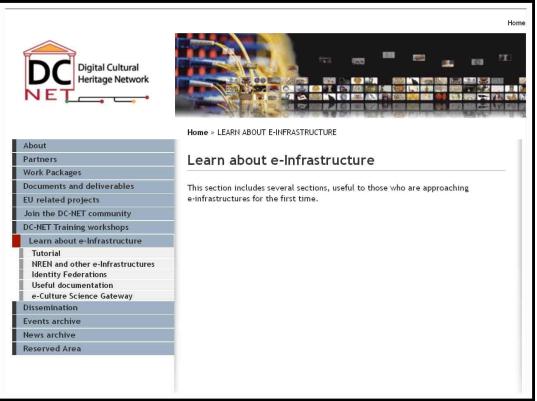


Fig. 1 - Learn about eInfrastructure web page

3.1.1 Tutorial

The 'Tutorial' section is an original work of the DC-NET project. It contains the following documents:

- the 'e-Infrastructure Handbook', i.e. the text produced as deliverable 2.2 which illustrates the complex landscape of eInfrastructure taking into account the perspective of the cultural institutions dealing with the digital heritage. In fact, it is often not clear how existing eInfrastructures can be used by DCH organisations, and which services they deliver. It is also clear that many DCH organisations only know the NREN in their country but are unaware of other e-infrastructures. Hence the task in this handbook that gives as good as possible an overview of the existing eInfrastructures in the DC-NET partner countries and the modalities and cost for use of these infrastructures.
- Two tutorial .ppt presentations, 'Internet Basic' and the 'eInfrastructure glossary'. Both were elaborated thanks to the cooperation with GARR, the Italian NREN that meant to provide cultural institutions with general information on how Internet works, and consequently how the eInfrastructure services are structured, and on the most used terms connected to eInfrastructures and their components (network, computing, middleware, data, etc.).

Both tutorials can be also used in live presentation.

3.1.2 NREN and other eInfrastructures

This section contains information about NREN and other eInfrastructure providers that cooperate with the DC-NET project. It answers to some basic questions (*What is an NREN? What is GEANT? What is TERENA? What is DANTE? What is a NGI? What is EGI?*), provides the list of NRENs and NGIs operating in the DC-NET partner countries, gives explanation about the main international eInfrastructure initiatives, and, above all, lists the NREN and NGI contact points in the participating nations. Most of this information is taken from D2.2 "eInfrastructure Handbook" and re-edited to be read and diffused on the web.

3.1.3 Identity federations

This section was organised in cooperation with the INDICATE project in order to describe one of the most diffuse and efficient service that eInsfratructure may supply cultural institutions with.

In fact, the relevance of Identity Federations for cultural heritage mainly resides in the fine-grained control of access rights to digital material. Data can reside on different systems, which can be geographically distributed, and located in different organizations. On the other hand, access should be granted to end-users belonging to different organizations, geographically located in any part of the world. A key use case for federated identity is the collaboration of a research team, consisting of people from different organizations, and even countries, on a joint project involving access to multiple systems. Using federated identity, access control and authorizations on multiple systems is greatly simplified, both from the researcher's and from the Systems Administrator's point of view.

3.1.4 Useful documentation

This section provides a quick overview of the EU framework for eInfrastructures and digital cultural heritage, like the URLs of the eInfrastructure section on CORDIS, the Community Research and Development Information Service of the European Commission, and the official website of the Europe's Digital Agenda.

The second part of the section contains the documents (roadmap, white papers, recommendations) produced by eIRG, the eInfrastructure Reflection Group⁵. The main objective of the e-Infrastructure initiative is to support the creation of a political, technological and administrative framework for an easy and cost-effective shared use of distributed electronic resources across Europe. eIRG was founded to define and recommend best practices for the pan-European electronic infrastructure efforts. It consists of official government delegates from all the EU countries. The e-IRG produces white papers, roadmaps and recommendations, and analyses the future foundations of the European Knowledge Society.

3.1.5 eCulture Science Gateway

The eCulture Science Gateway⁶ is a web space in the GRID developed within the INDICATE project by Consorzio COMETA, one of the member of IGI, the Italian Grid Infrastructure; its aim is to provide users with an easy-to-use web interface and a single sign-on beyond the home institute mechanism to access digital archives of cultural heritage data coming from worldwide repositories.

The eCulture Science Gateway is a practical way for cultural institutions and research communities to experiment the management of data in a GRID environment as well as the benefits of the use of an identity federation system. It is a major step forward towards an easier and wider use of e-Infrastructures by non-expert users who do not want to deal with personal digital certificates and the complex Grid Security Infrastructure.

3.2 DC-NET national information & training seminars

On 13 & 14 January 2011, the DC-NET consortium organised the eInfrastructure concertation meeting held in Tallinn (Estonia)⁷, whose aim was to identify common approaches and mechanisms on how multinational projects and memory institutions with digital cultural heritage collections could gain access to national eInfrastructure providers (NRENs) as well as to the resources managed by coordination initiatives such

^{5 &}lt;u>http://www.e-irg.eu/</u>

^{6 &}lt;u>http://indicate-gw.consorzio-cometa.it/web/guest</u>

⁷ http://www.dc-net.org/index.php?en/22/events-archive/41/tallinn-dc-net-e-infrastructureconcertation-meeting-presentations-and-images-available

as GEANT and Grid platforms. In addition to the DC-Net partners, eInfrastructure representatives from all over Europe participated in the event.

Among the conclusions of this meeting of concertation with eInfrastructure, the DC-NET partners decided to organize information seminars in each partner country, targeted to decision makers and experts of cultural institutions working in the ICT and digitization of cultural heritage fields. The partners agreed on basic content of the programme of the information seminars.

3.2.1 The structure of the national information & training seminars

The information seminars were conceived in order to give basic knowledge on eInfrastructures, their typologies and their uses. They should have introduced user stories to show how eInfrastructures can be beneficial not only for the researchers' environment, but also for cultural institutions.

The Italian NREN (GARR Consortium), even if not being a partner of DC-NET, has cooperated with the project and drafted a basic programme for the whole consortium members. Of course, it was not mandatory to organise the national seminars according to the proposed structure; this was instead intended as guidelines that illustrate the main topic to be tackled and which are the stakeholders to be involved. Of course, each partners customised the seminar standard programme according to the national needs.

TITLE:

E-infrastructure basis for cultural institutions and the best use cases

MORNING SESSION

- Welcome (by the workshop organiser)

- **Objectives of the workshop** (by the workshop organiser):

"This WS aims to give the basic notions about eInfrastructures, what they are and how they work. We will show how they can be used by Arts and Humanities community through the voice of users who will present their use case."

- Internet basics tutorial (NREN)

"The tutorial will focus on the basic notions about Internet. Moreover the tutorial will try to clear up all the false beliefs about Internet (How Internet works? Internet and the Web are the same thing? What is an IP address? What is a router?)" - E-infrastructure glossary tutorial (NREN)

"The tutorial will be focused on the explanation of the most used words relating to the e-infrastructure framework and their use context ("What is the meaning of eInfrastructure? Which are the eInfrastructure components: network, computing, middleware and data?)"

- National Research and Educational Network (by the local NREN)

"This presentation aims to explain what is a national research and educational network, what are its objectives, which are the institutes already connected to the network, how it can help Arts and Humanities community both in the present and future projects"

- Computing and Storage infrastructures (by the local NGI)

"This presentation aims to explain what is a computing and storage infrastructure, what are its objectives, how it can help Arts and Humanities community both in the present and future projects"

AFTERNOON SESSION

- Users case histories (by the users)

"The session will show how the eInfrastructure can be used by Arts and Humanities community by showcasing and discussing real-life use cases, presented by the users themselves".

- Conclusions

The seminars' programme was also discussed with the Chief Community Officer of the Stichting European Grid Initiative (EGI).

3.2.2 The held seminars

At the time of this deliverable compilation, the DC-NET consortium organised the following information & training seminars:

- Paris (France), 16 April 2010
- Rome (Italy), 18 October 2011
- Stockholm (Sweden), 24-25 October 2011
- Budapest (Hungary), 17 November 2011
- Tallinn (Estonia), 12 January 2012
- Brussels (Belgium), 27 January 2012
- Ljubljana (Slovenia), 6 February 2012
- Athens (Greece), 28 March 2012

All the concerned documentation (programmes, presentations, etc.) is reachable through the DC-NET site⁸.

This training activity that run in parallel across the partner countries for the awareness and promotion of the eInfrastructure services for the cultural domain is among the first cooperation action actions carried out by the DC-NET consortium. The most important outcome is the tight cooperation occurred between cultural institutions and eInfrastructure providers. This had also consequences on the national activities. For instance, the French seminar was held quite early in the project lifetime and led to the creation of the national working group including cultural institutions, eInfrastructure providers, research centers and the ministry for research.

It is worth stressing the role of eInfrastructure providers in the national workshops because they totally shared the goals of the DC-NET project and promptly cooperated. This synergy was rarely put in practice before DC-NET; moreover, it is possible to say that this type such a kind of workshops aiming at raising awareness on reciprocal needs were held for the first time across the DC-NET countries.

⁸ <u>http://www.dc-net.org/index.php?en/199/dc-net-training-workshops</u>.









Fig.2 - Pictures from the Rome and Ljubljana seminars.

3.2.3 The outcomes of the seminars

Audience

The 8 seminars were attended by over 300 experts coming from various fields: there were directors and people working with strategies for digitisation at museums, archives and libraries, people from research centers and universities, ministry of culture representatives, private companies dealing with ICT, local authorities, eInfrastructure providers.

eInfrastructure involved

The DC-NET training and information seminars were the occasion to tighten the relationships with the national eInfrastructure providers that subscribed the DC-NET Memorandum of Understanding between the project partners and the concerned NRENs and NGIs.

Representatives from BELNET and BEgrid (respectively the Belgian NREN and NGI), EEnet (Estonian NREN), GRNET (Greek NREN), SYZEFXIS (Greek e-infrastructure for the public administration), NIIFI (Hungarian NREN), GARR (Italian NREN), IGI (Italian Grid Infrastructure), Arnes (Academic and Research Network of Slovenia, NREN), SUNET (Swedish NREN) as well as the French Ministère de l'Enseignement Supérieur et de la Recherche (MESR) supported the organisation of the national events and illustrated to the local public the services provided by the networks they manage. It was mostly the first time that the cooperation between the cultural heritage and eInfrastructure sector was so tight and fruitful.

Use cases

The use case section of the information and training seminars was among the most interesting outcomes of the seminars because helped cultural institutions in better understanding the real potentialities of the eInfrastructure services.

The Italian seminar brought to the attention of the public 3 use cases: two from the library world and one from the museum domain.

The National Library Service (SBN)⁹ is a service managed and provided by ICCU that connect over 4,500 libraries organised in 74 poles for the implementation of the union catalogue of the Italian libraries. It contains 11,567,000 publications, 3,478,600 authors, 81,5M library records hosting and satisfies over 32 M queries per year. These results wouldn't be possible if SBN wouldn't have been connected to the GARR broadband service. By the way, also a cultural entity like the Museo Galileo¹⁰, thanks to the connection to GARR, developed through the years a wide top level multimedia offer for the website users and published online very sophisticated digital resources and training products.

One of the most used services provided by eInfrastructure is the identity federation. The director of the library pole of the University of Padua¹¹ illustrated the identity federation management system that facilitates the access of the users to the different sources of information and allows University to manage different level permissions, in particular for the publisher catalogues and digital resources are concerned.

Also the best practices illustrated on the occasion of the Stockholm event investigated the potential of highly performing connectivity thanks to the experience of the Labour Movement Archives and Library¹² which is connected to the Opto SUNET backbone, and the work of the Swedish National Heritage Board¹³, the agency of the Swedish government that is responsible for heritage and historic environment issues, which exploits the services of SUNET to provide access to its holdings and collections on the Internet.

⁹ www.sbn.it

www.museogalileo.it
www.ruseogalileo.it

¹¹ <u>http://www.cab.unipd.it/</u>

¹² http://www.arbark.se/

¹³ http://www.raa.se/

The Slovenian workshop too highlighted the fruitful and long-lasting cooperation between the Slovenian Museum of Natural History and ARNES, the local NREN, for which the Radius server for the authentication of domestic users was set up.

At the Athens workshop GRNET proposed its services of transmission through the web (GRNET live events) for cultural events, specifically the National Archaeological Museum Friends' Society speeches, the Book Arcade Free University lectures, the Megaron, the Athens Concert Hall.

Some use cases were more oriented on digitisation itself: in Brussels the Archipel project, a network-centric approach to sustainable digital archives, elaborated by the Flemish community, and the PEPs Plan (Preservation and Exploitation of the Cultural Heritage) and its state of implementation, from the French Community of Belgium were introduced; it was interesting to see the corresponding choices in both projects.

Impact

The overall goal of raising awareness by cultural institutions about the potential of eInfrastructures was reached everywhere. Furthermore, some meetings led to concrete collaboration between both sectors; this happened for instance in Belgium, where a concrete collaboration between Belgian DCH research institutions and BELNET, the Belgian NREN, was launched and a technical working group with representatives of both has been set up. An implementation priority was given to the DC-NET research priorities and other ICT requirements of the DCH organisations. Besides, one of the DCH organisations started to test out the computing Grid infrastructure provided by BEgrid. During the workshop a general discussion about the requirements (new services) of the DCH organisations present at the seminar went out. Central attention was given to those new services that were also identified by DC-NET (D3.1 "Digital Cultural Heritage Services Priorities Report"). There was a quick consensus to set up a technical working group that will tackle the realisation of selected prioritised requirements. It was decided to start with two requirements on the agenda: one to be realised in a short term (housing/hosting) and one to be realised in a longer term (long term preservation).

Furthermore, during the Rome workshop the Modern and Contemporary Library had the occasion to meet the network provider (GARR) and agree the connection procedures.

In some case, **Estonia** for instance, the workshop was the occasion also for going in depth with themes and practices of digitisation, besides the discussion about possible new services offered by e-Infrastructures to DCH sector.

An interesting survey about the use of eInfrastructure by cultural institutions was conducted on the occasion of the **Budapest** seminar. It indicated that all but two of the respondents (37 cultural institutions) use some services of NIIFI (the Hungarian NREN); however many of the heritage institutions are not aware of the wide range of services provided by NIIFI. The majority of institutions have been using national eInfrastructure services since 1997 and 90% of those who replied are satisfied with these services. Very few institutions specified new services needed but not provided by NIIFI.

The data suggest that in average a very low ratio: 0.5% of all annual expenses are spent on eInfrastructure services and the mean value constitutes 700 thousand HUF (2,5 k euro). Concerning digitisation expenditure, it is a mere 1-2% of the overall budget of heritage institutions. All the institutions who returned the questionnaire use their computing capacity for professional, collection management, office and other applications. About half of the heritage institutions make available their digitised objects online, and in most cases some search tool is also provided.

Another kind of questionnaire was distributed on the occasion of the Rome workshop in **Italy**; it was conceived for the attendees in order to understand their level of knowledge improvement and satisfaction. The attendees warmly welcomed the afternoon session when the tutorial produced within the DC-NET project (see above paragraph 3.1.1) were introduced by the authors of GARR. This demonstrated that the basic knowledge of eInfrastructures and related services needed to be improved.

On the other hand, also eInfrastructure providers benefitted of this training seminars because they better understood the needs of the cultural heritage sector.

In some cases (**Slovenia**, for instance), it was the first time that cultural institutions and eInfrastructure met in a public and big event. This was also the occasion to discuss the possibilities of financing e-culture projects using, for instance, the structural funds.

The workshops held in **Stockholm**, **Brussels**, **Tallinn** and **Ljubljana** were also the occasion to introduce the service priorities as described in D3.1 "Digital Cultural Heritage Services Priorities Report" that were welcomed with great interest by the audience and raised new questions for future development services. In particular, the Estonian workshop was the occasion to deepen the theme of long term preservation.

4 The research priorities' technical validation

The 7 research priorities drafted in D3.1 have been validated under the technical and policy perspectives in order to include them in the Joint Activities Plan.

The results are collected in D4.1 "Technical Validation" which constitutes itself an effort of joint activity because it involved both the eInfrastructure community and policy makers in the formulation of new ideas, concepts, plans and objectives which combine DCH and e-Infrastructures. In particular, the role of the technologists is to validate the technical feasibility and value of the new services envisaged by the DCH actors.

The approach of WP4 to carry out this work was to define a questionnaire split up into two parts (for technicians, i.e. eInfrastructure providers, and policy makers/cultural institutions member of the DC-NET Network) which had to reply for the sections of their competence.

The eInfrastructure providers involved were:

- ARNES (Slovenia)
- BELNET (Belgium)
- COMETA (Italy)
- EENet (Estonia)
- GARR (Italy)
- GRNET (Greece)
- NIIFI (Hungary)
- RENATER (France)
- SUNET (Sweden)
- SYZEFXIS (Greece)

Working session for the completion and discussion of the questionnaire were organised across participating countries; they involved the full network of common interest (ministries and agencies, eInfrastructures providers and DCH community representatives. These sessions will continue beyond the end of the EC funding period within the DC-NET Network.

This joint effort was considered as a valuable approach to be followed for the future activities of the DC-NET partners because it led to some key important conclusions:

- The prioritised list of services generated by WP3 and documented in D3.1 cause no major problems or issues from a technical or policy standpoint. As such they require no major modification before being committed to in the Joint Activities Plan.
- There remain significant variations in the e-Infrastructures facilities offered in each member state and by each e-Infrastructures provider. The e-Infrastructures landscape is not a homogeneous one this will need to be taken into account in the future, although the community is committed to interoperability and to "hiding" the technical details of the platform from end users.
- Some of the prioritised services will need to be designed and implemented by the DCH community and its technical (software) partners; while the e-Infrastructures community is comfortable providing platforms and technical facilities, the specification, design and build of services such as persistent identifier systems or metadata transformation engines goes beyond the usual e-Infrastructures remit.
- The WP4 experience has underlined the willingness and open-ness of the e-Infrastructures and DCH communities to work together, to "speak one another's language" and to explore and validate each other's priorities and constraints.

5 The Joint Programming Initiative for Cultural Heritage

As highlighted in paragraph 4.5 of deliverable 6.1 "Joint Activities Plan", an exciting input into the DC-NET plans is the Joint Programming Initiative on Cultural Heritage and Global Change¹⁴ that plays the role of stimulating cultural heritage activities by Member States in terms of common strategies and programmes.

The JPI benefits from a support action project JHEP (launched September 2011)¹⁵ whose aim is to define a shared research agenda on tangible, intangible, and digital cultural heritage in order to launch joint calls during the project's lifetime.

From the JHEP Description of Work:

Task 2.3 Undertake a joint foresight study and an assessment of technological capability.

The process of identifying multiple future risks to cultural heritage due to ageing, adverse environmental conditions and human pressures that lead to the loss of tangible and digital form and intangible values of cultural heritage, will be carried out by the JPI partnership using foresight study methods led by horizon scanning experts and an assessment of technological capability by the Scientific Committee. The results of this study will be used as a method of identifying and ranking common research gaps and priorities from among those identified by the National Consultation Panels and supported by evidence from ERA-Net projects relevant to this JPI, namely the ERA-NET project 'NET-HERITAGE European Network on Research Programme applied to the Protection of Tangible Cultural Heritage' (www.netheritage.eu), the ERA-NET Plus action 'HERA Humanities in the European Research Area – Joint Research Programme' (www.heranet.info/) and the ERA-NET project 'DC-Net Digital Cultural Heritage Network' (http://www.dcnet.org). This study will lead to the production of the Strategic Research Agenda that will aim to set out research priorities in the medium (10 years) and longer term (25 years).

Task 3.3: Implementation of the Action Programme.

New transnational initiatives, e.g. joint calls for proposals will be developed upon recommendation of members of the Governing Board and based on the principle of variable geometry following the research areas identified in Task 3.1.

For the dedicated participants, joint calls for proposals will be prepared and the framework for collaboration established.

The participating States involved in JPICH will benefit from existing know-how and share expertise in management of transnational programmes – especially the assessment reports of international programmes.

They will also draw on experiences and recommendations by active ERA-NETs such as NET-HERTITAGE and DC-NET which are collected and summarized by ERA-LEARN. Based upon these experiences with trans-national programmes and activities, this task will be responsible for the preparation and implementation of joint calls for proposals.

It is clearly stated that JHEP won't reinvent the wheel and will benefit from other ERA-NETs covering different domains; DC-NET is the reference point for digital heritage and in this light is contributing to the shaping process of the joint calls that will be based on the national programmes, that each country must decide and commit by itself, at national level. This cooperation has been reinforced thanks to the subscription of the cooperation agreement that included JHEP in the DC-NET network of common interest.

¹⁴ http://www.heritageportal.eu.

¹⁵ http://www.jpi-culturalheritage.eu/.

The seven DC-NET priorities were brought to the attention of the JPI on the occasion of the meeting of the Scientific Committee that was held in London (UK) on January 30^{th} 2012 by the DC-NET coordinator. The role of the JPI scientific committee is to draw the grid for the JHEP Strategic research Agenda that will be the roadmap for the implementation of the joint calls. According to the JHEP DoW, a call considering the issues related to digital cultural heritage may presumably be launched at the beginning of 2013.

It is true that not all members of the DC-NET network of common interest are members of the JPI/JHEP; however this is not an obstacles for the implementation of joint activities because the calls that DC-NET plans to do within the JPI/JHEP may difficulty involve all the participating countries: the principle of variable geometry issued for the JHEP calls is the most appropriate for achieving this purpose.

6 Priority 1 - long term preservation: the Joint Assignment and the DCH-RP project proposal

The long term preservation of digital cultural heritage is on the top of the chart of the priorities that researchers consider as most important and feasible in a short/medium term perspective (D3.1); moreover, the eInfrastructure community is quite comfortable with this topic, as emerged within the service priorities technical validation (D4.1).

Long term preservation is perceived by the cultural community as highly valuable and having a strategic role; for this reason, the DC-NET community decided to focus the first joint activities on this topic.

6.1 The Joint Assignment

As described at paragraph 8.4.1 of deliverable 6.1 "Joint Activities Plan", a joint assignment on long term preservation (service priority 1) was funded by the whole consortium in order to investigate the issues related to the long-term preservation of digital data pertaining to the cultural sector and on how the eInfrastructures may be used to address these problems. The data collected by this study will provide important perspectives and support for future (medium term) proposals in the area of long term preservation. To achieve this result, the DC-NET partners agreed to appoint an international expert – Raivo Ruusalepp – and assign him the task to conduct the study on the state of the art of long-term preservation of digital data across Europe and on the role of e-infrastructures.

The DC-NET consortium carried out a long discussion on the procedures to co-fund this study because national funding can hardly be used for transnational activities (as illustrated at chapter 7 of deliverable 6.1 "Joint Activities Plan"). The adopted solution foresees that Riksarkivet, the partner which has a major interest in the work since it contains also a specific overview on the Swedish situation, will act as formal contractor while other partners will refund their share. This practice allowed overcoming the existing boundaries of the national funding programmes and instruments.

All DC-NET initial partners agreed upon the study:

- 1. MiBAC-ICCU: Italian Ministry of Culture (Italy)
- 2. MCC: Ministère de la Culture e la Communication French Ministry of Culture (France)
- EWKM: Eesti Vabariigi Kultuuriministeerium Estonia Ministry of Culture (Estonia)
- 4. MKRS: Ministrstvo za Kulturo Slovenia Ministry of Culture (Slovenia)
- 5. HMC: Hellenic Ministry of Culture (Greece)
- 6. RA: Kulturdepartementet Swedish Ministry of Culture (Sweden)
- 7. OKM: Oktatási Kulturális Minisztérium Ministry of Education and Culture (Hungary)
- 8. STIS: Federal Science Policy Office/Scientific and Technical Information Service (Belgium)

The cost of the study is subdivided as follows:

- 40% paid by RA;
- 15% paid by MiBAC;
- 12.5% paid by EWKM;
- 6.5% paid by MCC, MKRS, HMC, OKM and STIS.

RA pays the biggest amount because the study will include also a specific Roadmap for Sweden as an additional outcome. RA will formalise the contract with the expert and

will collect the payments coming from the other partners. RA will release an invoice to each partner in relation to payment of the agreed amount.

The results of the study will belong to all the DC-NET partners.

The final version of the study is due by March 31st, 2012.

This joint assignment represents a test-bed for future similar joint assignments on the other DC-NET research priorities or other topics of common interest.

6.2 The DCH-RP project proposal

The priority 1 on long term preservation was also the object of a proposal for a Coordination Action within the call FP7-Infrastructures-2012-1-INFSO whose name is DCH-RP (Digital Cultural Heritage Roadmap for Preservation - Open Science Infrastructure for DCH in 2020).

This project, if approved, will focus upon the making of a roadmap for the next two decades to implement a federated infrastructure dedicated to support DCH. Preservation is the first priority; in fact, national DCH-RP builds upon the knowledge generated by the DC-NET ERA-NET and the INDICATE DCH-RP partners participate.

DCH-RP does not deal with digitisation and will not perform a technical development itself, which is instead a matter for national and regional programmes. DCH-RP will explore how to harmonise data preservation policies in the DCH sector at European and international level and how to progress with the dialogue among DCH institutions, eInfrastructures, research and private organisations.

The partnership reflects these ambitious goals because it bring together many different stakeholders of the DC-NET network of common interest (i.e. programme owners - ministries of culture - research centers, national and European eInfrastructure providers) and has real European vision and dimension. This was possible thanks to the wide networking activity carried out within DC-NET, in particular within WP1 Network of Common Interest and WP 2 e-Infrastructure Awareness.

1 MiBAC-ICCU, Italy (coordinator) 2 Riksarkivet, RA, Sweden 3 Dienst voor Wetenschappelijke en Technische Informatie-Service d'information Scientifique et Technique, BELSPO-STIS. Belgium 4 Eesti Vabariigi Kultuuriministeerium, Ministry of Culture of Estonia, EVKM, Estonia 5 Collections Trust, CT, United Kingdom 6 Promoter, PM, Italy 7 Stichting European Grid Initiative, EGI.eu, The Netherlands 8 Istituto Nazionale Di Fisica Nucleare, INFN, Italy 9 Instytut Chemii Bioorganicznej PAN, PSNC, Poland 10 National Information Infrastructure Development Institute, NIIFI, Hungary 11 Editeur Limited, EDITEUR, UK 12 Tran-European Research Networks Association, TERENA, The Netherlands

13 MICHAEL Culture Aisbl, MCA, Belgium

7 Commitment and sustainability

7.1 The commitment for the future

At this stage of the project the DC-NET partners as well as cluster of the stakeholders that constitutes the DC-NET network of common interest reached a level of maturity to start thinking about the common future. In fact, cultural heritage and eInfrastructures players across Europe are much more familiar with each other activities, priorities, capacities and constraints, and the establishment of cross-border eInfrastructure-enabled research initiatives in the digital cultural sector can be enabled.

The participating Member States, including the new countries who joined the network along the project, worked together in the initial phase of the joint activities (the national seminars, the technical validation of the research priorities, the definition of the Joint Activities Plan) with the support of NRENs, NGIs and other stakeholders that have been selected as relevant for the scope of DC-NET and are part of the network of common interest. This network has no established hierarchy and its strength lies in the value of the ideas that it promotes.

The DC-NET project partners have worked so well together in the past that now can share a common vision of how eInfrastructures could revolutionise many aspects of digital cultural heritage research, and have demonstrated their commitment by several years of collaboration in the MINERVA and MICHAEL project groups, and by working effectively together in various working groups.

The current DC-NET group of partners will keep on working after the end of the project sharing the vision outlined in the Joint Activities Plan in order to become, little by little, a more structured body.

A reference point may be the evolution of the MINERVA network, the group of European culture ministries that from 2002 onward shaped the European cultural information space promoting common policies and joint initiatives: the series of the MICHAEL projects, DC-NET itself, INDICATE, ATHENA, and Linked Heritage. All of them (like the DC-NET partners) were programme owners and worked together for the harmonization of the national digitization policies. This activity is reflected in the Charter of Parma (2003), a strategic document that strengthened the group mission, obtained a political acknowledgement at the ministerial levels, and promoted the outcomes and the adoption of the recommendations and guidelines produced¹⁶. Finally in 2007 the MINERVA network managed to have a formal shape through the creation of the Michael Culture Association¹⁷, a non-for-profit organisation under the Belgian law that supports the MINERVA network of European professionals working on digital heritage, participates in major European initiatives and projects, promotes and develops the Michael portal¹⁸.

The switch from the DC-NET project to the following phase when the DC-NET partners will work together on the Joint Activities Plan will happen thanks to the agreement upon a the following Commitment Decision that can be considered as the "manifesto" for the future work and the implementation of the action lines described in D6.1.

The first period of activities beyond the end of the project will be fully selffinanced by the members of the DC-NET current consortium on a voluntary basis and with in-kind contributions (personnel, location for the events, web hosting, sharing of services, etc.). From 2014 onward, it is foreseeable that the DC-NET network is fully established and it has elaborated a sustainability plan with some internal resources for its own functioning. Nevertheless, the core of the networking activities (seminars, cooperation and dissemination) will remain mostly an initiative of each members carried out at the national level.

¹⁶ http://www.minervaeurope.org/structure/nrg/documents/charterparma031119final.htm.

¹⁷ http://www.michael-culture.eu.

¹⁸ Michael is the portal of the European digital collections: <u>http://www.michael-</u> <u>culture.org/en/index.html</u>.

7.2 The Commitment Decision

Preamble

DC-NET is a Coordination and Support Action, funded under the Seventh Framework Programme of the European Union with the aim of coordinating national RTD programmes of European countries and to support the European RTD Programmes in the field of research applied to the digital cultural heritage.

The DC-NET group of partners worked along two years to build up a shared policy vision on the state of the art of digital cultural heritage across Europe expressed in the position paper, shared with the Linked Heritage project, in response to the Public Consultation about the Green Paper on a Common Strategic Framework for future EU Research and Innovation Funding (May 2011) and the so called Budapest conclusions that stressed the importance of cooperation between the digital cultural heritage community and eInfrastructure providers (June 2011).

Moreover, this general vision includes the seven research service priorities which are the result of a large debate of the DC-NET consortium with the eInfrastructure providers that demonstrated as they don't cause major problems or issues from a technical or policy standpoint, and they require no major modification before being committed to in the Joint Activities Plan (D3.1 "Digital Cultural Heritage Services Priorities Report" and D4.1 "Technical validation").

The model of the following Commitment Decision (CD) reflects this debate of the DC-NET partners and is the result of a consensus built among them on the main joint actions to be carried on. Its aim is to allow the programme owners (i.e. the members of the DC-NET project consortium) to join forces and maximise synergies in order to launch common joint research and innovation strategies applied to digital cultural heritage will endorse the following decision.

The Commitment Decision must be intended as an evolving paper open to improvements until the needs here represented will be fully satisfied. Its implementation will be carried on within the framework of the respective partner national programmes and the joint activities agreed in the project deliverable 6.1 "Joint Activities Plan" which is the Annex I to this Decision.

Commitment Decision on common agreement

for joint activities on digital cultural heritage

<u>Art. 1 - Declaration of intention</u>

The DC-NET partners share the aims of the present Commitment Decision (CD) "Common agreement for joint activities on digital cultural heritage", which are to join forces and maximise synergies in order to launch shared activities applied to digital cultural heritage (DCH) according to the statements of the "Joint Activities Plan" (D6.1).

They also primarily endorse the objectives of DC-NET as described in the Preamble.

Art. 2 - Purposes of the Commitment Decision

The DC-NET partners consider the present Commitment Decision as the first step in order to share common strategy concerning the DCH research, leaning on the dynamics developed within DC-NET.

This Commitment Decision is a mutual statement of engagement among the partners. It serves to keep record of their commitment, which agrees to make every reasonable effort to fulfil the intentions expressed in Joint Activities Plan.

Art. 3 - Stakeholders

The DC-NET partners agree on the opportunity of cooperate also in the future with the eInfrastructure providers and other stakeholders which constitute the Network of Common Interest built up along the project.

Art. 4 - References

The DC-NET partners agree to designate a national contact person for the participating countries to collect information on the ongoing activities and manage contacts among each others.

<u>Art. 5 – Agenda and funding instruments</u>

The DC-NET partners agree on participating in the implementation of concrete activities and mechanisms to be settled for the future implementation of the Joint Activities Plan.

These actions will be realised according to 3 main actions lines:

- 1. Networking, to bring together stakeholders from the DC-NET community to further explore how best to establish a DCH infrastructure in agreement with the national eInfrastructure providers involved thanks to the DC-NET MoUs. This action line will include also trainings for cultural heritage institutions, the reinforcement of the network of common interest which includes DC-NET partners, the eInfrastructure providers and all stakeholders relevant in the scope of DC-NET, and clustering activity with other projects.
 - The networking envisaged actions are:
 - Information seminars
 - Cooperation with other initiatives
 - Dissemination about the DC-NET Network

All actions will be self financed by the participants beyond the end of the DC-NET project.

- 2. Services, to build new and advanced facilities that meet the 7 service research priorities identified by the DC-NET consortium and highlighted in the Preamble section. Initially this means long term preservation, but the other service priorities listed above are also very much in scope.
- 3. **Research**, because networking activities build upon the consortium research capabilities. The services will themselves require research in terms of technology, policy and cross-domain interaction.

The services and research envisaged actions are:

- studies co-funded with national budgets;
- cooperation in the framework of current EC projects shared by the DC-NET members;
- joint calls within the JPI-CH to be funded according the national funding schemes;
- future cooperation within new EC co-funded research and eInfrastructure projects.

The activities related to these 3 action lines are those included in the Joint Activities Plan agreed by the DC-NET partners (Annex I).

All future further actions will be decided by the DC-NET partners with the variable geometry approach.

<u>Art. 6 – Joint calls</u>

The DC-NET partners will create the conditions for the implementation of virtual calls for new research initiatives to be carried out in the field of digital cultural heritage. They will be jointly organized and possible financed by the participating European institutions, according to their respective legal framework and regulations. It is foreseen that they will be launched in 2013 in liaison with the activities of the Joint Programming Initiative for Cultural Heritage and JHEP, its implementation project.

Each member of the DC-NET group of partners will identify the appropriate national funding scheme to implement the calls. The funding model will be the "virtual common pot" model in consideration of the legal constraints of Member States.

The subjects of the calls will be the DC-NET service priorities, in particular:

- Priority 1 Long term preservation
- Priority 4 Advanced search
- Priority 6 Authentication and authorisation

and new possible services like those based on advanced visualisation technology. <u>Art. 7 - Entry into force of the Commitment Decision</u>

The Commitment Decision will be agreed upon by the DC-NET partners before the end of the project and enter into force immediately after.

Art. 8 - Assessment and amendment

The CD may be subject to periodic assessment by the Network and eventually amended by written agreement of the parties.

<u>Art. 9 – Language</u>

The language for this CD, its interpretation and all cooperative activities foreseen for its implementation, is English.

List of DC-NET Network partners endorsing this decision:

Belgium

Federal Science Policy Office - Scientific and Technical Information Service

Bulgaria

Central Library of the Bulgarian Academy of Sceience

Estonia

Eesti Vabariigi Kultuuriministeerium - Estonian Ministry of Culture

France

Ministère de la Culture e la Communication - Département de la Recherche de l'Enseignement supérieur et de la Technologie - French Ministry of Culture

Greece

Hellenic Ministry of Culture

Hungary

Ministry of National Resources

Ireland

An Chomhairle Leabharlanna (The Library Council)

Italy

Istituto Centrale per il Catalogo Unico delle biblioteche italiane e per le informazioni bibliografiche of the Italian Ministry of Culture

Latvia

Valsts aģentūra "Kultūras informācijas sistēmas"

Slovenia

Ministrstvo za Kulturo - Slovenia Ministry of Culture

Spain

Generalitat de Catalunya

Sweden

Kulturdepartementet Swedish Ministry of Culture, represented by the National Archive

United Kingdom Collections Trust

ANNEX I to the Commitment Decision

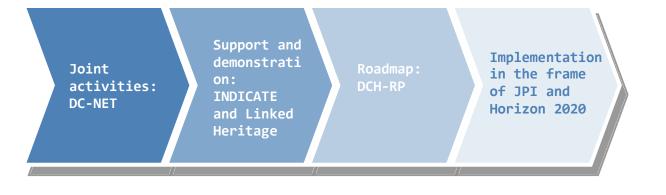
D6.1 "Joint Activities Plan" which constitutes integrating part of the Decision.

8 Conclusions

The first set of joint activities put in place by the DC-NET partners led some major achievements.

- The training workshops held across Europe demonstrated the great value of raising awareness about eInfrastructures. In fact the analysis carried out on the national digitisation programmes in Member States highlighted that there is a strong need of advanced services but little knowledge of the potentialities of the research infrastructure. The national seminars had a large success because they explained with concrete examples what eInfrastructure can do for the cultural heritage sector; for this reason the Joint Activities Plan includes their continuation within the national digitisation programmes. The national seminar are the primary level of cooperation between cultural institutions and eInfrastructures providers.
- A further step of cooperation within the DC-NET network of common interest was established in the framework of the **technical validation** of the research priorities carried out by WP4. The research priorities represent the needs of the cultural institutions/programme owners dealing with digital cultural heritage: they were examined under the perspective of the technologies that NRENs and NGIs can give.
- The joint activities to be carried out at the national level found an appropriate environment for their realisation in the Joint Programming Initiative for Cultural Heritage because JPIs are the tool to develop a common vision in the field of research at the European level, ensure the coherence of national and regional research programmes, and address major societal challenges. JPI Cultural Heritage is benefitting from the DC-NET outcomes for the digital cultural heritage sector that will be the basis for the formulation of the first virtual joint calls that it is foreseen to happen in 2013.
- The Joint Assignment on long term preservation can be considered as the a testbed of the DC-NET partners for the implementation of joint activities funded at the national level overcoming the local administrative and financial constraints. The final study will also have a relevance for all partners, independently from the national situations.
- The DCH-RP proposal represents a further effort to look into the future. The project will address the first research priority long term preservation because it is of major interest for both cultural institutions and eInfrastructure providers. The top level consortium is also an evolution of the relationship established within the DC-NET network of common interest.

In short, the process begun in 2009 is now mature for new future challenges: DC-NET prepared the conditions for joint activities; the INDICATE and Linked Heritage projects are giving to the DC-NET inputs actual support and demonstration; the new proposal DCH-RP will expand the dialogue between cultural institutions and eInfrastructure providers on the priority of long term preservation of digital heritage to design the roadmap for the future implementation of a devoted eInfrastructure.



ANNEX I – DC-NET national information & training workshops reporting forms

BELGIUM

GENERAL INFORMATION

Date	27 January 2012
Country	Belgium
Place	Brussels
Event title	DC-NET Seminar
Organising body(ies)	STIS/BELSPO
Responsible Person	
name	Jean Moulin
e-mail	jean.moulin@stis.belspo.be
Was a translation service provided?	No

PARTICIPANTS	
Number of participants	21
Description of the attendees (e.g. librarians, e-infrastructure providers, researchers)	<pre>21 participants from 11 organisations attended the seminar: - the major federal cultural institutions: Royal Library of Belgium, State Archives, Royal Museums of Art and History, Royal Museums of Fine Arts, Royal Institute for Cultural Heritage, Royal Institute of Natural Sciences, Royal Museum for Central Afric, Study and Documentation Centre for War and Contemporary Society, Royal Film Archive; - two representatives of, respectively, the administrations of culture of the Flemish and French Communities; - BELNET, the Belgian NREN; - STIS/BELSPO (Belgian Science Policy Office).</pre>

CONTENT OF THE WORKSHOP

Goals of the workshop	Initiate a concrete collaboration between Belgian DCH research institutions and BELNET aiming to implement the service priorities defined by DC- NET and to provide input to the JAP.
Impact	Collaboration at the operational level started between DCH and e-Infrastructure provider (NREN). This is also an impact of the MoU signed between BELSPO and BELNET.
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international invited speaker, etc.)	The morning session was dedicated to the presentation of existing e-Infrastructure services, their future perspectives and the priorities for DCH research defined in DC-NET's Work Package 3 culminating in a general discussion about the requirements (new services) of the DCH organisations present at the seminar. Main attention was given to those new services

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	that were identified by DC-NET (D3.1). A prioritisation of the requirements was the first step. There was a quick consensus to set up a technical working group that will tackle the realisation of selected prioritised requirements. This technical working group consists of representatives of the DCH organisations and from BELNET. It was decided to start with two requirements on the agenda: one to be realised in a short term (housing/hosting) and one to be realised in a longer term (long term preservation). The work of this working group will also be brought to the JAP in order to contribute to European harmonisation for the concerned requirements. In the afternoon two digitisation projects, respectively from the Flemish Community and the French Community, were presented. It was interesting to see the corresponding choices in both projects. The presentation on harmonisation of metadata gave a very interesting summary of the major elements needed to harmonize metadata. To finish a visit was organised to the digitisation platform of the State Archives of Belgium.	
Are e-infrastructure providers (NREN, NGI) included into the programme?	Yes: BELNET (NREN) and BEgrid (NGI)	
Is the workshop hosted in the	No	
program of a larger event?		
If yes, please, indicate the name of		
the hosting event		
Has the workshop received any	Yes	
sponsorship?	The second share have been a loss of the first state of the	
If yes, please, indicate who	The workshop was hosted by the State Archives of Belgium.	
Were a Poster Session or an Exhibition organised on the side of the workshop?	Νο	
If yes, please provide a description		
of the Poster Session and of the		
Exhibition		
Please, attach the full program of th		
09:30 Welcome, Jean Moulin (STIS/BELS	ful for DCH, Yves Baert and Fernand De Decker	
(BELNET)	a to being thes backet and remain be beeker	
10:30 e-Infrastructures in Europe, Ro	sette Vandenbroucke (STIS/BELSPO)	
11:00 Presentation of the prioritised new services for DCH identified by DC-NET ("D.3.1"), Jean Moulin		
11:30 Perspectives to cooperate with BELNET and contribution to the DC-NET Joint Activity Plan, Rosette Vandenbroucke and Jean Moulin		
13:00 Lunch 14:00 Case Study 1: the Archipel project, a network-centric approach to sustainable		
digital archives, Dries Moreels (BAM, Flemish Institute for Visual, Audiovisual and Media Art)		
14:30 Case Study 2: the Harmonisation of metadata, Lucie Verachten (State Archives of Belgium)		
15:00 Case Study 3: the PEPs Plan (Pr	eservation and Exploitation of the Cultural	

Heritage) and its state of implementation, Evelyne Lentzen (General Delegate for the Digitization of the Cultural Heritage of the French Community of Belgium) 15:30 Visit to the digitisation platform of the State Archives of Belgium, Lucie Verachten 16:00 Conclusions, Jean Moulin

	se cases were more oriented on digitalisation tself.
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COMMUNICATION	
Which kind of promotion has been organised in order to inform the target audience (e.g. e-mails, website, brochures, posters, etc.)	E-mails - Internal promotion within the federal institutions made by the members of the coordination group DC-FED – personal contacts via phone
Announcement on the project website	Yes
Please, attach copy o	of promotional material, if any

PROCEEDING AND MULTIMEDIA	
Which kind of	Texts
documentation of the workshop is	□X Power Point presentations
available?	Pictures
	Video streaming
	Audio Podcast
	Video Podcast
	Other
Is the workshop documentation available online?	Yes, on <u>www.dc-net.eu</u>
If yes, please	
provide the Internet address of	
the documentation.	

DISSEMINATION

DISSEMINATION	
Please, list the DC-NET products that have been distributed at the workshop	None, the participants already received all DC-NET documentation before the seminar was held, especially via the national working groups DC-FED and DC-BEL.
Please, list other information that has been distributed at the workshop	None

(if any, please,	
provide a copy of	
it)	

SELF-ASSESSMENT Do you consider that the workshop achieved the expected results? yes Please, explain how and why.

The goal of the workshop has been reached because a technical working group with representatives of the Belgian DCH organisations and the Belgian e-Infrastructures (NREN) has been set up. An implementation priority was given to the DC-NET research priorities and other ICT requirements of the DCH organisations. This work is a valuable input for the JAP. Besides one of the DCH organisations started to test out the computing Grid infrastructure provided by BEgrid.

ESTONIA	ES ⁻	ΓΟΝ	IIA
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GENERAL INFORMATION

Date	12.01.2012
Country	Estonia
Place	Tallinn
Event title	e-Infrastruktuurid, pilvetehnoloogia, säilitamine ja digiteerimine (eInfrastructures, cloud/GRID, preservation and digitisation)
Organising body(ies)	Estonian Ministry of Culture (Conservation Centre "Kanut")
Responsible Person	
name	Indrek Eensaar
e-mail	Indrek.eensaar@kul.ee
Was a translation service provided?	NO

PARTICIPANTS

Number of participants	25
Description of the attendees (e.g. librarians, e-infrastrcuture providers, researchers)	Museum experts, librarians, researchers

CONTENT OF THE WORKSHOP

Goals of the workshop	Introduction of possibilities of eInfrastructures, GRID and Cloud, newer trends on long term digital preservation. How to build up digitisation workflow.
Impact	
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international invited speaker, etc.)	Seminar was organised as one-day seminar. Main part of day was directly linked with DC-NET, other part with digitisation. There were seven presentations and six different speakers.
Are e-infrastructure providers (NREN, NGI) included into the programme?	YES, EENET
Is the workshop hosted in the program of a larger event? If yes, please, indicate the name of the hosting event	NO

Has the workshop received any NO sponsorship? If yes, please, indicate who				
Were a Poster Session or an Exhibition organised on the side of the workshop? If yes, please provide a description of the Poster Session and of the Exhibition				
Please, attac	h the full program of the work	shop		
10.00 - 10.15	Registration			
10.15 - 10.30	Overview about DC-NET projec	t	Indrek Eensaar, The Ministry of Culture	
10.30 - 11.45	e-Infrastructures, GRID and	Cloud	Hardi Teder, EENET (NERN)	
	Break			
11.55 - 12.45	Digital Preservation of the Cultural Heritage (services)		Raivo Ruusalepp	
12.45 - 13.30	Lunch			
13.30 - 14.15	Long-term Digital Preservation: A Memory Institution Perspective Andres Uueni, CC Kanut			
14.15 - 14.25	Break			
14.25 - 14.55	Necessary guidelines, programs and work-flow for successful digitisation		Andres Uueni, CC Kanut	
14.55 - 15.55	The Equipment and Preparation of Tools		Martin Sermat, CC Kanut	
15.55 - 16.00	Break			
16.00 - 17.00	Necessary settings for digit	Jaanus Heinla, CC Kanut		
Use cases (if you illustrated some use case of eInfrastructures by cultural institutions, please give details. Paste and copy the cell row if necessary)				

COMMUNICATION

Which kind of promotion has been organised in order to inform the target audience (e.g. e-mails, website, brochures, posters, etc.)	e-mails
Announcement on the project website	YES
Please, attach copy of promotional material, if any	

PROCEEDING AND MULTIMEDIA

Which kind of documentation of	X X	Texts Power Point presentations
the workshop is		Pictures
available?		Video streaming
		Audio Podcast
		Video Podcast
		Other

Is the workshop documentation available online?	YES,	<pre>http://www.kanut.ee/index.php/koolitused</pre>
If yes, please provide the Internet address of the documentation.		

DISSEMINATION

Please, list the DC-NET products that have been distributed at the workshop	
Please, list other information that has been distributed at the workshop (if any, please, provide a copy of it)	

SELF-ASSESSMENT

Do you consider that the workshop achieved the expected results? Please, explain how and why.

Seminar was great success. The level of knowledge of CH sector about e-Infrastructures and their use was improved. There was discussion about possible new services offered by e-Infrastructures to DCH sector.

FRANCE

GENERAL INFORMATION

Date	16 April 2010
Country	France
Place	Paris, Ministère de la Culture et de la Communication, Salle Molière
Event title	Réseau européen de la recherche DC-net – Réunion d'information et d'échanges
Organising body(ies)	МСС
Responsible Person	
name	Christophe Dessaux
e-mail	christophe.dessaux@culture.gouv.fr
Was a translation service provided?	<u>no</u>

Goals of the workshop	
Impact	
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live	
demonstration, any international	

invited speaker, etc.)		
Are e-infrastructure providers (NREN, NGI) included into the programme?		
Is the workshop hosted in the program of a larger event?	No	
If yes, please, indicate the name of the hosting event		
Has the workshop received any sponsorship?	No	
If yes, please, indicate who		
Were a Poster Session or an Exhibition organised on the side of the workshop?	No	
If yes, please provide a description of the Poster Session and of the Exhibition		
Please, attach the full program of th	ne workshop	
Réseau européen de la recherche DC-net http://www.dc-net.org/		
<u>Réunion</u> d'informati	on et d'échanges du 16 avril 2010	
Le projet <i>DC-NET</i> (décembre 2009-novembre 2011) est un nouveau réseau européen de la recherche soutenu dans les cadre du 7ème programme cadre européen de recherche et développement. Il est consacré aux applications "recherche" de la numérisation du patrimoine culturel dans le contexte des eInfrastructures. Le Ministère de la Culture et de la Communication (SG/DREST) représente la France au sein de ce projet. Une réunion d'information et d'échanges se tiendra :		
Vendredi 16 Avril 2010 de 9h30 à 13h00		
Salle Molière		
au Ministère de la Culture et de la Communication 182 rue Saint Honoré 75001 PARIS		
9h30 Accueil		
9h45 <i>Le projet DC-net : présentation générale</i> Antonella FRESA, technical coordinator, MiBAC		
La participation française à D	C-net	
Christophe DESSAUX, chef du DREST, MCC		
10h30 Le portail Michael et Patra	imoine numérique	
Marie-Véronique LEROI, chef de	projet, DREST, MCC	
NUMES, inventaire des corpus n Recherche	umérisés de l'Enseignement supérieur et de la	
Michel MARIAN, chef de la Miss	ion de l'information scientifique et technique et	

 du réseau documentaire, MESR

 11h
 Les infrastructures de recherche en France (feuille de route TGIR) et en Europe (ESFRI, eIRG)

 Dany VANDROMME, Organismes transversaux et grandes infrastructures de recherche, MESR

 11h30
 Questions réponses entre intervenants et participants

 12h30
 Prochaines étapes Christophe DESSAUX, MCC

 Contact : MCC/DREST - 01 40 15 80 45 - drest@culture.gouv.fr

 Use cases (if you illustrated some use case of eInfrastructures by cultural institutions, please give details. Paste and copy the cell row if necessary)

GREECE

GENERAL INFORMATION	
Date	28 March 2012
Country	GREECE
Place	NATIONAL ARCHAEOLOGICAL MUSEUM, ATHENS
Event title	DC-NET: Νέες e-υπηρεσίες για τον πολιτισμό (DC-NET: New e-services for culture)
Organising body(ies)	HELLENIC MINISTRY OF CULTURE AND TOURISM
Responsible Person	
name	EKATERINI HAMBOURI - IOANNIDIS
e-mail	ehabouri@culture.gr
Was a translation service provided?	NO

PARTICIPANTS

Number of participants	32
Description of the attendees (e.g. librarians, e-infrastrcuture providers, researchers)	ARCHAEOLOGISTS AND DIGITAL CULTURE SPECIALISTS, GRNET (GREEK NREN), SYZEFXIS (E-INFRASTRUCTURE), ACADEMICS

CONTENT OF THE WORKSHOP

Goals of the workshop	The goal of the workshop was to present the DC-net project and its achievements, the finalised service priorities, to introduce the DCH and e-infrastructures to one another and to raise the awareness
	another and to raise the awareness about e-Infrastructures and their potential for the cultural heritage institutions in Greece.

	Coole ware orbited	
Impact	Goals were achieved.	
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international invited speaker, etc.)	There was one long session with presentations from the Hellenic Ministry of Culture and Tourism, GRNET (Greek NREN) and SYZEFXIS (Greek e-infrastructure for the public administration).	
Are e-infrastructure providers (NREN, NGI) included into the programme?	YES. GRNET and SYZEFXIS.	
Is the workshop hosted in the program of a larger event? If yes, please, indicate the name of the hosting event	NO	
Has the workshop received any sponsorship?	NO	
If yes, please, indicate who		
Were a Poster Session or an Exhibition organised on the side of the workshop? If yes, please provide a description of the Poster Session and of the Exhibition	The DC-NET big and small posters were used only.	
Please, attach the full program of th	e workshop	
10:00 - 10:10 Χαιρετισμός κ. Κ. Χατζηχρήστος, Διευθυντής Πληροφορικής και Τηλεπικοινωνιών ΥΠΠΟΤ 10:10 - 10:30 Ευρωπαϊκό Πρόγραμμα DC-NET Αικ. Χαμπούρη - Ιωαννίδου ΜΑ MSc, Διεύθυνση Πληροφορικής και Τηλεπικοινωνιών ΥΠΠΟΤ, Εθνική συντονίστρια του προγράμματος DC-NET 10:30 - 11:00 Παρουσίαση των e-Infrastructures Α. Σεβαστή - Π. Λουρίδας, ΕΔΕΤ Τι είναι τα e-infrastructures και τι μπορούν να προσφέρουν στον ψηφιακό πολιτισμό.		
11:00 - 11:30 Δράσεις και δυνατότητες των υποδομών και υπηρεσιών της ΕΔΕΤ Α.Ε. με αντικείμενο τον ψηφιακό πολιτισμό Α. Σεβαστή - Π. Λουρίδας, ΕΔΕΤ		
11:30 - 12:00 Παρουσίαση του ρόλου του ΣΥΖΕΥΞΙΣ και των δυνατοτήτων συνεργασίας με τον ψηφιακό πολιτισμό Β. Θωμόπουλος, ΣΥΖΕΥΞΙΣ		
12:00 - 12:20 Ανοιχτή Συζήτηση		
12:20 - 13:00 Ελαφρύ Γεύμα		
Programme translated into English 9:30 – 10:00 Registration and coffee		
10:00 – 10:10 Welcome Mr C. Chatzichristos, Director, IT and Telecommunications Directorate, Hellenic Ministry of Culture and Tourism		
10:10 – 10:30 DC-NET European project		

E. Hambouri - Ioannidis MA MSc, IT and Telecommunications Directorate, Hellenic Ministry of Culture and Tourism 10:30 - 11:00 Presentation of the role of e-Infrastructures A. Sevasti - P. Louridas, GRNET 11:00 - 11:30 Activities and capacities of GRNET in the sector of DCH A. Sevasti - P. Louridas, GRNET 11:30 - 12:00 The role of SYZEFXIS and the cooperation potential with DCH V. Thomopoulos, SYZEFXIS 12:00 - 12:20 Discussion 12:20 - 13:00 Light lunch Transmission through the web (grnet Use cases (if you illustrated some use case of eInfrastructures by live events) for cultural events, specifically the National cultural institutions, please give Archaeological Museum Friends' details. Paste and copy the cell row Society speeches, the Book Arcade if necessary) Free University lectures, the Megaron, the Athens Concert Hall, etc.

COMMUNICATION

COMMUNICATION	
Which kind of promotion has been organised in order to inform the target audience (e.g. e-mails, website, brochures, posters, etc.)	E-mails, dc-net website.
Announcement on the project website	YES on http://www.dc-net.org/.
Please, attach copy of promotional material, if any	

PROCEEDING AND MULTIMEDIA	
Which kind of	Texts
documentation of the workshop is	Power Point presentations
available?	□ <u>Pictures</u>
	Video streaming
	Audio Podcast
	Video Podcast
	🗆 Other
Is the workshop documentation available online?	Yes on http://www.dc-net.org/.
If yes, please provide the Internet address of the documentation.	

DISSEMINATION	
Please, list the DC-NET products that have been distributed at the workshop	Folder with postcard, leaflet, booklet, service priorities and best practices booklet, printout of the part B of questionnaire for WP4.
Please, list other information that has been distributed at the workshop (if any, please, provide a copy of it)	

SELF-ASSESSMENT

Do you consider that the workshop achieved the expected results? YES Please, explain how and why.

E-Infrastructures and the services they are able to provide to the cultural heritage institutions were introduced and analysed. Contacts between e-Infrastructures providers and main cultural heritage institutions have been established.

HUNGARY	
HUNGAN I	

GENERAL INFORMATION	
Date	17 November 2011
Country	Hungary
Place	Budapest, National Széchényi Library
Event title	DC-Net Information Seminar
Organising body(ies)	NEFMI
Responsible Person	
name	Ivan Ronai
e-mail	ivan.ronai@nefmi.gov.hu
Was a translation service provided?	<u>no</u>

PARTICIPANTS

Number of participants	48
Description of the attendees (e.g. librarians, e-infrastrcuture providers, researchers)	librarians, museum experts, researchers, e- Infrastructure providers

Goals of the workshop	To give the basic notions about e- infrastructures, what they are and how they work. Show interactively how they can be used by the heritage community through the practice of public collections users and the Hungarian NREN NIIFI.
Impact	
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international invited speaker, etc.)	The first and major part of the workshop consisted of the presentations of the Hungarian NREN (NIIFI). The presentations triggered lively and active discussions on issues like reliability, trust, improper bandwidth, lack of

	resources and other problems facing cultural institutions in using e-Infrastructure services		
Are e-infrastructure providers (NREN, NGI) included into the programme?	Yes. NIIFI experts had presentations		
Is the workshop hosted in the <u>No</u> program of a larger event? If yes, please, indicate the name of the hosting event			
Has the workshop received any sponsorship?	No		
If yes, please, indicate who			
Were a Poster Session or an Exhibition organised on the side of the workshop?	No		
If yes, please provide a description of the Poster Session and of the Exhibition			
Please, attach the full program of th	e workshop		
Program: First Block			
<i>Question:</i> What is e-Infrastructure	(NREN)?		
Answer by NIIFI: e-Infrastructure is	the term used to indicate a set of computing		
resources, storage and application to	ols interconnected by high bandwidth networks.		
Elements of e-Infrastructure - Large	amount of data generation and storage; middleware,		
cloud technology, virtual research co	mmunities		
Feedback from DCH: pros and cons of o	wn infrastructure.		
Second block			
<i>Question:</i> What are the services DCH	uses?		
Answer: Results of our survey.			
	and information on new cooperation, exchange of		
views and problems			
Third block			
<i>Question:</i> What are the current and p	lanned projects where use of e-Infrastructure		
would be feasible?			
Answer by DCH: overview of current a	nd planned projects, exchange of views and		
problems.			
Feedback from NIIFI: how to enhance trust and provide tailored services.			
Fourth Block			
Question: What measures are needed to	extend cooperation?		
Answer by DCH: prerequisites of trust	Answer by DCH: prerequisites of trust, tailored services, low prices and fees		
-, -, -, -, -, -, -, -, -, -, -, -, -, -	,,,		

Feedback of NIIFI

Use cases (if you illustrated some use case of eInfrastructures by cultural institutions, please give details. Paste and copy the cell row if necessary)

COMMUNICATION

<pre>promotion has been organised in order to inform the target audience (e.g. e-mails, website, brochures, posters, etc.)</pre>				
Announcement on the project website				

PROCEEDING AND MULTIMEDIA

Which kind of documentation of		Texts	
the workshop is	✓	Power Point presentations	
available?		Pictures	
		Video streaming	
		Audio Podcast	
		Video Podcast	
		Other	
Is the workshop	ye	S	
<pre>documentation available online?</pre>			
If yes, please	<pre>http://dc-net.oszk.hu</pre>		
provide the			
Internet address of			
the documentation.			

DISSEMINATION

Please, list the DC-NET products that have been distributed at the workshop	DC-NET leaflet DC-NET postcard
Please, list other information that has been distributed at the workshop (if any, please, provide a copy of it)	none

SELF-ASSESSMENT Do you consider that the workshop achieved the expected results? Yes Please, explain how and why.

A more established knowledge of e-Infrastructure services provided by NIIFI has been acquired by the DCH community. On the other side the Hungarian NREN has better understood the needs of cultural heritage institutions. The dialogue between DCH and e-Infrastructures has been encouraging concerning the future tailoring of e-Infrastructure services for public collections and their researchers and users.

ITALY

GENERAL INFORMATION

Date	18 October 2011
Country	Italy
Place	Rome
Event title	Seminario informativo DC-NET: Nozioni di base sulle e-infrastructures e casi d'uso nell'ambito delle istituzioni culturali
Organising body(ies)	ICCU; GARR (Italian NREN)
Responsible Person	
name	Rosa Caffo
e-mail	rosa.caffo@beniculturali.it
Was a translation service provided?	Not needed

PARTICIPANTS

Number of participants	71 attendees		
Description of the attendees (e.g.	library	26	
librarians, e-infrastructure providers, researchers)	central institute/research center	19	
	university	7	
	ministry	5	
	consortium	5	
	private company	3	
	museum	2	
	archive	2	
	cultural association	1	
	regional government	1	
	TOTAL	71	

Goals of the workshop	To give basic elements on einfrastructures, their
	types and use.
	To illustrate some use cases of interaction
	between cultural institutions and e-
	infrastructures.
Impact	The workshop received very positive feedbacks. A
	questionnaire for evaluating the attendee satisfaction was distributed.
	Use cases and e-infrastructure tutorial were
	considered positively.

Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international invited speaker, etc.)	 The workshop was made up of 3 main sessions: The opening session whose aims were to illustrates the DC-NET project and the role and competences of NRENs and NGIs Use case stories: how cultural institutions (2 libraries and 1 museum) use eInfrastructure services. This session included also the presentation of the INDICATE project pilots about digital libraries on the Grid Tutorial: NREN representatives illustrated notions of eInfrastructures
Are e-infrastructure providers (NREN, NGI) included into the programme?	Yes, GARR (Italian NREN) and IGI (Italian Grid Infrastructure) representatives
Is the workshop hosted in the program of a larger event?	No
If yes, please, indicate the name of the hosting event	
Has the workshop received any sponsorship?	No
If yes, please, indicate who	
Were a Poster Session or an Exhibition organised on the side of the workshop?	No
If yes, please provide a description of the Poster Session and of the Exhibition	
Please, attach the full program of the	e workshop
Seminario informativo DC-NET: Nozioni di base sulle e-infrastructures e casi d'uso nell'ambito delle istituzioni culturali	
18 ottobre, 2011 - DC-NET seminars	
<pre>Sede: Biblioteca nazionale centrale di Roma - Saletta 1 Viale Castro Pretorio, 105 Come arrivare: http://www.bncrm.librari.beniculturali.it/index.php?it/203/come-arrivare Obiettivi del seminario: Il workshop intende fornire nozioni di base sulle e- infrastructure, la loro tipologia e il loro utilizzo. Le storie degli utenti dimostreranno come le loro potenzialità possono servire efficacemente anche gli istituti culturali e non solo il mondo della ricerca Destinatari: Decision makers ed esperti delle istituzioni culturali, che operano nei settori ICT e digitalizzazione del patrimonio culturale.</pre>	
Cedola di prenotazione (OBBLIGATORIA) - Seminario ad accesso gratuito. MAX 80 posti, fino a esaurimento	
Programma MATTINO (BNCR, Sala I, Piano Terra) - 9:30-13:30 9:00 - 9:30 Registrazione 9:30 - 9:40 Apertura	
Osvaldo Avallone, direttore Biblioteca nazionale centrale di Roma 9:30 - 10:00 Sessione introduttiva Chair: Rossella Caffo	
9:40-10:00 Keynote speaker	

Paolo Galluzzi (Museo Galileo) 10:00 - 10:20 IL progetto DC-NET Antonella Fresa, coordinatore tecnico DC-NET 10:20 - 10:40 Le National Research and Educational Network e il ruolo del GARR Enzo Valente, direttore Consortium GARR Ouesta presentazione intende spiegare cosa è una National Research and Education network (NREN), quali sono i suoi obiettivi, quali istituti vi sono già collegati, come può aiutare il settore della cultura 10:40 - 11:00 Computing and Storage infrastructure Federico Ruggieri, Istituto Nazionale di Fisica Nucleare, IGI - Italian Grid Infrastructure Questa presentazione illustrerà un differente tipo di e-infrastructure, le computing and storage infrastructure, e i benefici che possono derivare dal loro utilizzo 11:00 - 11:20 Pausa caffè Storie di utenti: istituti culturali collegati alle reti della ricerca 11:20 - 11:40Il Servizio Bibliotecario Nazionale Gabriella Contardi, Istituto Centrale per il Catalogo Unico delle Biblioteche Italiane 11:40 - 12:00 Le biblioteche e l'accesso all'informazione online attraverso l'autenticazione federata in rete degli utenti Laura Tallandini, Sistema Bibliotecario di Ateneo dell'Università di Padova* 12:00 - 12:20 L'uso delle tecnologie avanzate per la diffusione della cultura storico-Scientifica sul weh Iolanda Rolfo, Museo Galileo, Firenze 12:20 - 13:00 Domande e risposte 13:00 - 14:30 Pausa pranzo POMERIGGIO (presso la Saletta Conferenze dell'ICCU) 14:30 - 16:30 Chair: Maria Teresa Natale 14:30 - 14:50 Biblioteche digitali su GRID per preservare e diffondere il patrimonio umanistico. Le applicazioni-pilota del progetto INDICATE Roberto Barbera, Università di Catania - Consorzio COMETA Tutorial 14:50 - 15:30 Comprendere Internet per comprendere le e-infrastructure. Internet basics tutorial Gabriella Paolini, Consortium GARR Questo tutorial fornisce informazioni di base su Internet: come funziona? Internet e il Web sono la stessa cosa? Cosa è un indirizzo IP? Cosa è un router? 15:30 - 16:10 Glossario di e-infrastructure Sabrina Tomassini, Consortium GARR Il tutorial esplorerà i termini più comunemente utilizzati in relazione alle einfrastructure. Si analizzerà il significato della parola s-infrastructure, quali sono i suoi componenti (network , computing, middleware, dati).

16:10 - 16:30 Conclusioni

Use cases (if you illustrated some use case of eInfrastructures by cultural institutions, please give details. Paste and copy the cell row if necessary)	Library sector 1: "Il Servizio Bibliotecario Nazionale e la rete GARR" (the National Library Service – SBN and the GARR network). SBN website: www.sbn.it
	ICCU is responsible for the Union Catalogue of
	the Italian Libraries.
	This service is implemented by over 4,500 libraries organised in 74 poles; it contains 11,567,000 publication, 3,478,600 authors, 81,5M library records hosting. It satisfies over 32 M queries per year.
	SBN uses the NREN (GARR) broadband service.
	Library sector 2: "Le biblioteche e l'accesso all'informazione online attraverso l'autenticazione federata in rete degli utenti" (Libraries and the online access to information thanks to the identity federation"). Padua University Library System website: http://www.cab.unipd.it/
	One of the most important NREN service that the library pole of the University of Padua is the identity federation management system that facilitate the access of the users to the different sources of information and allow University to manage different level permissions, in particular for the publisher catalogues and digital resources are concerned.
	Museum sector: "L'uso delle tecnologie avanzate per la diffusione della cultura storico-scientifica sul web" (Advanced technologies for promoting scientific culture on the web) Museo Galileo website: www.museogalileo.it
	Museo Galileo is the one of the most important science museum in Italy. Museo Galileo is connected to the NREN broadband service since many years and this allowed it to develop the multimedia offer for the website users and to publish online very sophisticated digital resources and training products.

COMMUNICATION

Which kind of promotion has been organised in order to inform the (e.g. e-mails, website, brochures, posters, etc.)Web sites: DC-NET, ICCU, Italian Ministry, OTEBAC, InternetCulturale Professional mailing lists of Italian librarians, archivists, a museum experts

Announcement on the project website	<pre>http://www.dc-net.org/index.php?en/22/events-archive/73/roma- seminario-informativo-dc-net-nozioni-di-base-sulle-e- infrastructures-e-casi-duso-nellambito-delle-istituzioni- culturali</pre>
Please, attach copy of promotional material, if any	

PROCEEDING AND MULTIMEDIA

Which kind of documentation of the workshop is available?	 Texts Power Point presentations Pictures Video streaming Audio Podcast Video Podcast Other
Is the workshop documentation available online? If yes, please provide the Internet address of the documentation.	Yes. http://www.dc-net.org/index.php?en/22/events-archive/73/roma-seminario-informativo-dc-net-nozioni-di-base-sulle-e-infrastructures-e-casi-duso-nellambito-delle-istituzioni-culturali

DISSEMINATION

Please, list the DC-NET products that have been distributed at the workshop	New DC-NET brochure
Please, list other information that has been distributed at the workshop	 GARR brochures and leaflet Grid Talk papers EC publication on e-infrastructures ("Empowering research and education across the Mediterranean: the role of e- infrastructures", etc.) ATHENA Journal & other ATHENA publications Culturaitalia, Internet Culturale and SBN (ICCU initiatives) brochures

SELF-ASSESSMENT Do you consider that the workshop achieved the expected results? Please, explain how and why.

Yes. The level of knowledge of CH sector about e-Infrastructures still needs to be improved; by the way, this seminar opened up new scenarios and possibilities of cooperation.

SLOVENIA

GENERAL INFORMATION	
Date	6. 2. 2012
Country	Slovenia
Place	Ljubljana, Maistrova ulica 10
Event title	DC-NET national event: New e-services in the field of culture (Nacionalni seminar DC-NET:

	Nove e-storitve na področju kulture)
Organising body(ies)	Minsitry of Culture
Responsible Person	
name	Ksenija Kovacec Naglic
e-mail	ksenija.kovacec@gov.si
Was a translation service provided?	No

 PARTICIPANTS

 Number of participants
 59 on the spot and video streaming

 Description of the attendees (e.g. librarians, e-infrastructure providers, researchers)
 libraries, museums, archives, e-infrastructures and different associations in the filed of culture

CONTENT OF THE WORKSHOP	
Goals of the workshop	The purpose of the national DC-NET event was to present
	 the achievements of the DC-NET project, new e-services in the filed of culture to different stakeholders, the possibilities of co-operation with the national Academic and Research Network of Slovenia Arnes (NREN).
Impact	 professionals from Slovenian cultural institutions learnt about e- infrastrucrure
	 cultural sector has got the entire information on existing and future services of ARNES
	 discussion on on future joint activities
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international	Session 1: – What is e-infrastructure? Tomi Dolenc, Arnes, The Academic and Research Network of Slovenia
invited speaker, etc.)	 Objectives and overview of the DC-Net project Franc J. Zakrajšek, National DC-Net co- ordinator
	 New services and e-culture, presentation of results of the DC-Net work package WP3 (in English without translation) Börje Justrell, Director and head of the Information and Communication Technology (ICT) Department at the Swedish National Archives
	<pre>Session 2: ARNES and e-culture Tomi Dolenc, Arnes, The Academic and Research Network of Slovenia</pre>
	Mojmir Štangelj, The Slovenian Museum of Natural History
	- Discussion

Are e-infrastructure providers (NREN, NGI) included into the programme?	Yes
Is the workshop hosted in the program of a larger event? If yes, please, indicate the name of the hosting event	No The event was organised and promoted in co- operation with INDICATE Workshop on Geo-coded cultural heritage content (Ljubljana, 7. 2. 2012)
Has the workshop received any sponsorship? If yes, please, indicate who	No
Were a Poster Session or an Exhibition organised on the side of the workshop?	Deliverables of the Athena project and some other printed materials were disseminated.
If yes, please provide a description of the Poster Session and of the Exhibition	
Please, attach the full program of the workshop	
Use cases (if you illustrated some use case of eInfrastructures by cultural institutions, please give details. Paste and copy the cell row if necessary)	An example of successful co-operation between the Slovenian Museum of Natural History and ARNES (NREN) was presented (within the session 2: ARNES and e-culture)

COMMUNICATION

Which kind of promotion has been organised in order to inform the target audience (e.g. e-mails, website, brochures, posters, etc.)	<pre>e-mails website of the Ministry of Culture: http://www.mk.gov.si/si/aktualno/e_storitve_na_po drocju_kulture_mednarodna_dogodka_v_ljubljani/ website of ARNES (NREN): http://www.arnes.si/obvestila/obvestilo/article/e -storitve-na-podrocju-kulture-mednarodna-dogodka- v-ljubljani.html</pre>
Announcement on the project website	Yes

PROCEEDING AND MULTIMEDIA

TROCEEDING AND THOETINEDIF	-	
Which kind of		Texts
documentation of the workshop is		Power Point presentations
available?		<u>Pictures</u>
		<u>Video streaming</u>
		Audio Podcast
		Video Podcast
		Other
Is the workshop	Ye	S
documentation available online?	Vi	deo:

If yes, please provide the	<pre>Session1: <u>https://vox.arnes.si/p6ksb1r5fv7/</u> Session 2: <u>https://vox.arnes.si/p3stq1c6u8v/</u></pre>
Internet address of the documentation.	

DISSEMINATION

	DC NET Booklot
Please, list the DC-NET products that have been distributed at the workshop	DC-NET Booklet DC-NET Poster DC-NET Postcard DC-NET Leaflet
Please, list other information that has been distributed at the workshop (if any, please, provide a copy of it)	Athena deliverables Register of Immovable Cultural Heritage of Slovenia Leaflet Digital Library of Slovenia (dLib) Leaflet ARNES (NREN) promotion materials

SELF-ASSESSMENT

Do you consider that the workshop achieved the expected results? Please, explain how and why.

The event presented the DC-Net project to Slovenian cultural institutions and stressed the importance of supporting co-operation for research infrastructure in the digital cultural heritage. The results of the DC-Net work package WP3 were presented in detail by Mr. Börje Justrell from the Swedish National Archives. The presentation of new services and their priorities was accepted with great interest by the audience and raised new questions for the future development of services.

DC-NET national event was an opportunity to bring together NREN representatives and cultural institutions. This was the first event of such nature in Slovenia.

NREN presented the possibilities of co-operation with the cultural institutions and expressed the willingness to support their e-culture activities.

Cultural institutions had the possibility to present their needs directly to NREN.

Comprehensive presentation of new technologies (e. g. grid computing, cloud computing) was given to cultural institutions.

Cultural institutions had the possibility to exchange views, their practice, needs and expectations among themselves and also with the representatives of the Ministry of Culture and NREN.

The possibilities of financing e-culture projects were discussed (e. g. use of the structural funds).

The deliverables of the successful Athena project were widely disseminated.

SWEDEN

GENERAL INFORMATION

Date	24-25 October 2011
Country	Sweden
Place	Stockholm
Event title	Workshop om e-infrastruktur för
	kulturarvsinstitutioner

Organising body(ies)	Riksarkivet (Digisam), DC-net
Responsible Person	Börje Justrell, Sanja Halling
name	Börje Justrell, Sanja Halling
e-mail	<u>Borje.justrell@riksarkivet.se</u> <u>Sanja.halling@riksarkivet.se</u>
Was a translation service provided?	No

Number of participants	26
Description of the attendees (e.g. librarians, e-infrastructure providers, researchers)	Directors and people working with strategies for digitisation at museums, archives and libraries, also e-infrastructure providers and representatives from the Swedish National Data Service SND.

Goals of the workshop Impact	Overall goal of the workshop was to present the achievements of the DC-net project, service priorities and to raise the awareness about e- Infrastructures and their potential for the cultural heritage institutions in Sweden. Raised awareness about e-Infrastructures, what kind of services they are able to provide and
	their potential for the cultural heritage institutions. Establishing of contact and collaboration between eInfrastructure and main cultural heritage institutions.
Brief description of the program of the workshop, in a narrative form (e.g. how many sessions, any live demonstration, any international invited speaker, etc.)	Workshop was divided into three blocks; about actors, connection, and services needs. There were two cases presented by cultural institution dealing with those issues. There was also a presentation by the e-Infrastructure provider, Swedish NREN, SUNET and Swedish Research Council.
Are e-infrastructure providers (NREN, NGI) included into the programme?	Yes.
Is the workshop hosted in the program of a larger event? If yes, please, indicate the name of the hosting event	<u>No.</u>
Has the workshop received any sponsorship? If yes, please, indicate who	No.
Were a Poster Session or an Exhibition organised on the side of the workshop? If yes, please provide a description of the Poster Session and of the Exhibition	No, but the promotion material about DC-net was distributed.
Please, attach the full program of the Program Workshop om e-infrastrukturen för kul 24-25 oktober 2011 24 oktober 2011 12.00 – 13.00 Registration	

Session 1: Actors for an e-Infrastructure in Sweden 13.00 - 13.30 Introduction Börje Justrell, Riksarkivet (Swedish National Archives) 13.30 - 14.00 Presentation of Swedish national coordination secretariat for digitisation, digital preservation and digital access to cultural heritage Rolf Källman, Riksarkivet (Swedish National Archives) 14.00 - 14.30 SUNET and Swedish Research Council 14.30 -15.00 EU-project DC-net (Digital Cultural Heritage Network) Börje Justrell, Riksarkivet (Swedish National Archives) 15.00 -15.30 Coffee break Block 2 A: Needs for broadband connection 15.30 - 16.00 DC-net - national and international survey about the connection needs Sanja Halling, Riksarkivet (Swedish National Archives) 16.00 - 16.30 Needs for broadband connection: Case 1 Lars Ilshammar, Labour Movement Archives and Library 16.30 - 17.30Discussion 25 oktober 2011 Block 2 B: Services provided by e-infrastructures, 09.00 - 09.30 Introduction Börje Justrell and Sanja Halling, Riksarkivet, (Swedish National Archives) 09.30 - 10.00 Services - Case 2: E-services for cultural heritage Lars Lundqvist, Swedish National Heritage Board 10.00 - 10.30 Coffe break 10.30 - 11.30 Discussion 11.30 - 12 00 Conclusions Börje Justrell and Sanja Halling, Riksarkivet, (Swedish National Archives)

Use cases (if you illustrated some use case of eInfrastructures by cultural institutions, please give details. Paste and copy the cell row if necessary)

COMMUNICATION

Which kind of promotion has been organised in order to inform the target audience (e.g. e-mails, website, brochures, posters, etc.)	Invitations and information by e-mails.
Announcement on the project website	Yes. On the DC-net website.
Please, attach copy of promotional material, if any	

PROCEEDING AND MULTIMEDIA

Which kind of documentation of the workshop is available?	□ x	Texts Power Point presentations
		Pictures
		Video streaming
		Audio Podcast
		Video Podcast
		Other
Is the workshop	Ye	s, on the DC-net website. www.dc-net.org

documentation available online?	
If yes, please provide the	
Internet address of the documentation.	

DISSEMINATION

Please, list the DC-NET products that have been distributed at the workshop	DC-net depliant and postcard.
Please, list other information that has been distributed at the workshop (if any, please, provide a copy of it)	-

SELF-ASSESSMENT

Do you consider that the workshop achieved the expected results? - Yes Please, explain how and why.

The workshop succeeded in raising awareness about e-Infrastructures and the services they are able to provide to the cultural heritage institutions. Contacts between e-Infrastructures providers and main cultural heritage institutions have been established. The DC-net project was presented and particularly WP3 on the New Service Priorities. Two cases were presented by the cultural heritage institutions, (Labour Movement Archives and Library, and Swedish National Heritage Board) to illustrate current work at these institutions in providing access to their holdings and collections on the Internet.