Digital Cultural Heritage e-Infrastructures

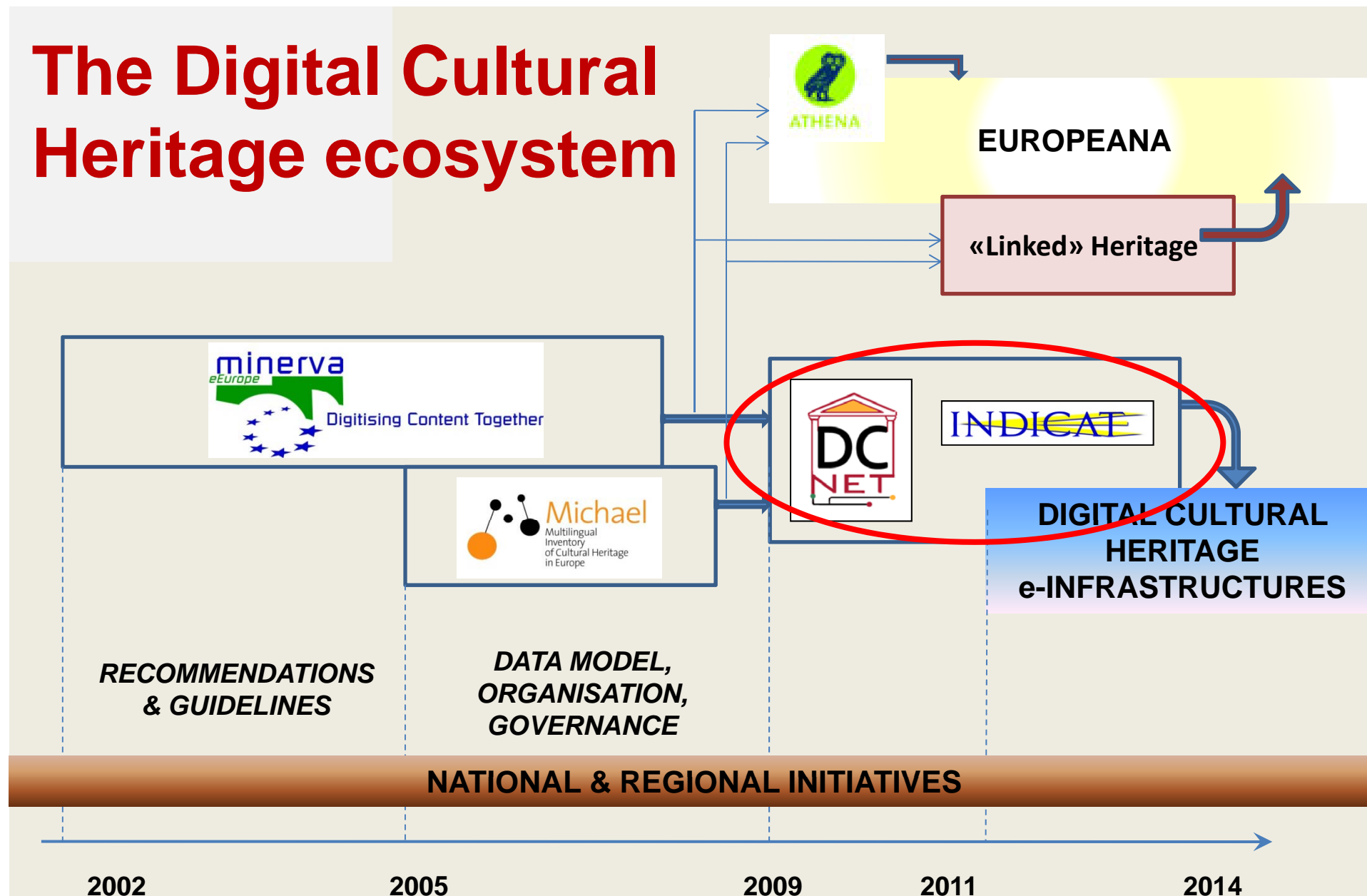## DC-NET: Digital Cultural Heritage Network

INDICATE: International Network for a Digital Cultural Heritage e-Infrastructure

TELDAP 2011
Taipei, 17 March 2011

Roberto Barbera (roberto.barbera@ct.infn.it)

on behalf of Antonella Fresa (ICCU – Italy)

The Digital Cultural Heritage ecosystem

EUROPEANA

«Linked» Heritage

ATHENA

minerva
eEurope
Digitising Content Together

Michael
Multilingual Inventory of Cultural Heritage in Europe

DC NET

INDICAT

DIGITAL CULTURAL HERITAGE e-INFRASTRUCTURES

RECOMMENDATIONS & GUIDELINES

DATA MODEL, ORGANISATION, GOVERNANCE

NATIONAL & REGIONAL INITIATIVES

| 2002 | 2005 | 2009 | 2011 | 2014 |

CAPACITIES
e-infrastructure

Roberto Barbera, COMETA
Taipei, 17/03/2011

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ICCU

«Preparatory» initiatives

– **MINERVA**: Platform of guidelines and recommendations for the digitisation of cultural heritage;

– **MICHAEL**: Multiligual service to provide access to the European digital cultural collections;

– **ATHENA** and **LINKED HERITAGE**: two Best practice networks in the area of Europeana

Europeana
(www.europeana.eu)

- Europeana enables people to explore the digital resources of Europe's museums, libraries, archives and audio-visual collections.

- It promotes discovery and networking opportunities in a multilingual space where users can engage, share in and be inspired by the rich diversity of Europe's cultural and scientific heritage.

- Ideas and inspiration can be found within the more than **15 million items** on Europeana. These objects include:
  – Images - paintings, drawings, maps, photos and pictures of museum objects
  – Texts - books, newspapers, letters, diaries and archival papers
  – Sounds - music and spoken word from cylinders, tapes, discs and radio broadcasts
  – Videos - films, newsreels and TV broadcasts

Done

Where are we ?

The last 10 years have been devoted to:

- initiate the mass digitization in Europe

- develop a common platform of standards and recommendation for digitization

- create portals and websites

The current challenges:

- To reduce cost of digitization and to increa~~se~~ ~~a~~ to a real "critical mass"

- To create advan~~ced~~ ~~ac~~cess, use, re-use and pres~~erve~~ ~~digit~~al content

- ~~Inte~~grate different sources of data into a common infrastructure for the research and the "citizens researchers"

e-Infrastructures can play a key role !

The Strategy

Three main directions:

I.   To bring people together and to establish a **dialogue** between the Digital Cultural Heritage and the ICT communities (***working groups, international conferences &publications***)

II. To explore how e-Infrastructures can **add value** to the research in the digital cultural heritage and to anticipate a range of services (***focused seminars and workshops, on use cases***)

III. To develop and to **endorse a Joint Plan of Activities** (***commitment from the stakeholders***)

The Actions

- Identify the **research priorities** and develop a **join plan of activities (DC-NET focus)**

- Stimulate the **international cooperation** of networks of e-Infrastructures providers and users **(INDICATE focus, Mediterranean Area as main target)**

DC-NET at a glance (www.dc-net.eu)

- DC-NET is an ERA-NET aiming to the coordination of programmes

- Research field: e-infrastructure for the digital cultural heritage

- Duration: 24 months

- Starting 1st December 2009

- Main objective:

  – To generate a powerful and comprehensive plan of joint activities for the implementation of a new data and service e-Infrastructure for the research in the field of the Digital Cultural Heritage

DC-NET Partners
(Ministries from 7 EU countries)

- **Italy:** Ministero per i beni e le attività culturali - Istituto Centrale per il Catalogo Unico (coordinator)

- **(*) Belgium:** Politique scientifique fédéral/Federaal Wetenschapsbeleid - STIS

- **Estonia:** Eesti Vabariigi Kultuuriministeerium

- **France:** Ministère de la Culture e la Communication – Mission de la Recherce

- **Greece:** Υπουργείο Πολιτισμού [Hellenic Ministry of Culture]

- **Hungary:** Oktatási Kulturális Minisztérium

- **Slovenia:** Ministrstvo za Kulturo Slovenia

- **(*) Sweden:** Riksarchivet

(*) in Belgium & Sweden partners were delegated from their respective national/regional Ministries

DC-NET activities and «actors»

Network of Common Interest
E-Infrastructure Awareness
New Service Priorities
Technical Validation
Dissemination
Joint Activities Plan
Management & Governance

The Actors

e-Infrastructure providers, research and academies

Ministries, Governmental Agencies, Cultural Institutions

National & regional Programmes

EU Programmes

Research Integration:

Standards, Shared technology, Exploitation of existing results, Priorization, ecc.

Digital Cultural Heritage e-Infrastructure

e-infrastruct

INDICATE at a glance
(www.indicate-project.eu)

- INDICATE is a Coordination Action funded by the EU FP7 targeted to the Mediterranean region

- Research field: e-infrastructure for the digital cultural heritage

- Duration: 24 months

- Starting 1st September 2010

INDICATE Partners

- **Italy**: Ministero per i beni e le attività culturali - Istituto Centrale per il Catalogo Unico (coordinator)
- **Italy**: Consotium GARR
- **Italy**: Consorzio COMETA
- **France**: Ministère de la Culture e la Communication
- **Greece**: National Technical University of Athens
- **Spain**: I2CAT Foundation
- **Slovenia**: Institute for the Protection of Cultural Heritage
- **Egypt**: CULTNAT
- **Jordan**: Department of Antiquities
- **Turkey**: Ministry of Culture and Tourism

- To establish a long-term network of common interest, following a tried and tested approach using working groups and high-quality publications;

- To deliver a range of demonstrators (two pilot applications and three case studies) that address the main priorities for the research in the Digital Cultural Heritage (in each case, these are not new R&D but instead the porting of existing work to the e-Infrastructure platform, with subsequent analysis and lesson learning);

- To establish the dialog between e-Infrastructure and DCH experts that are not used to work together.
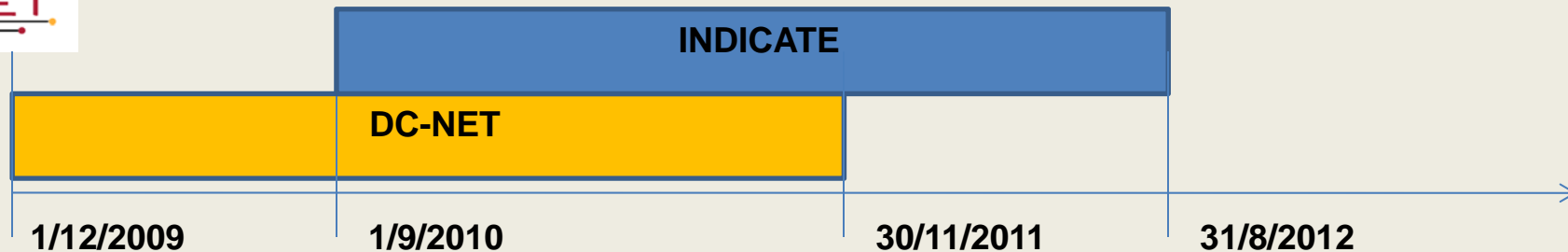
The relationship between INDICATE and DC-NET

DC-NET is the ERA-NET for the new e-Infrastructure dedicated to the research on the digital cultural heritage;

INDICATE is based on the results of DC-NET:

- the research priorities that can enable the activation of new advances services;

- the Joint Activities Plan, agreed among European Ministries of Culture, to start the implementation of the new e-Infrastructure.

DC-NET and INDICATE

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                          ┌──────────────────────────────────────┐
                          │              INDICATE                 │
        ┌─────────────────┴──────────────────────────┐           │
        │              DC-NET                         │           │
        └─────────────────────────────────────────────┘──────────┘
    1/12/2009         1/9/2010              30/11/2011        31/8/2012
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The two projects run in parallel for more than 1 year;

They have some partners in common:

- ICCU and MCC

- NTUA and AAS that provide technological support the DC-NET partners from Greece and Slovenia

- GARR and COMETA that participate to the DC-NET working groups

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DC-NET and INDICATE

DC-NET has started the work on the new area of the **digital cultural heritage enabled by the e-Infrastructures**.

INDICATE continues this work by exploiting the DC-NET results at **international level**, with a special focus on the **Mediterranean** region, aiming to:

- involving **new partners** in the **dissemination** of the the DC-NET results

- developing **pilots and case studies**, to put into practice the priorities identified by DC-NET

Network of common interest

- To establish a network of researchers and experts in e-Infrastructures and cultural heritage;
- To foster the dialog among different actors and different countries which are not used to work together;
- To share knowledge of applicable standards;
- To work on a long-term basis and to continue beyond the project life time.

Target audience

A wide range of targets:

- Cultural heritage organisations (museums, libraries, archives and Ministries of Culture);

- International associations of memory institutions (e.g., NEMO, EMF, ICOM, EBLIDA, CENL, etc.);

- E-Infrastructures providers (NRENs, NGIs, etc.);

- International bodies for e-infrastructures (DANTE, TERENA, EGI.eu);

- Ministries and state agencies who are responsible for funding of e-Infrastructures;

- International policy bodies for large Research Infrastructures (e-IRG, ESFRI);

- Research organisations (universities, private and public research centres);

- Other projects in the digital culture and in the e-Infrastructure area (e.g., DARIAH, CHAIN, EPIKH, etc.).

DC-NET public events

2 workshops:

- – Tallinn – e-infrastructure concertation meeting (13-14 January 2011)
- – Paris – New Services workshops (9-10 February 2011)

2 International Conferences, under the aegis of the EU Presidencies:

- - *Brussels, 29 October 2010* (proceedings available on the website)
- - Budapest, 23-24 June 2011

INDICATE public events

4 workshops:

- Turkey – Digital Preservation (June/July 2011)
- Jordan – Virtual exhibitions (September/October 2011)
- Slovenia – Geo-coded digital cultural content (February/March 2011)
- France – Strategies and Future plans (June/July 2012)

International Conference: Cairo, April 2012

BoF @ TERENA Conference
(Prague, 17 May 2011)

- **Title:**
  - «Building eCulture communities in the research networking environment»

- **Organiser:**
  - I2CAT Foundation (Spain)

- **Goal:**
  - To create a task force on eCulture inside TERENA, starting with the Cultural Heritage community

- **Already confirmed participants:**
  - DC-NET and INDICATE;
  - TERENA, Internet2, GARR, IRCAM, etc.;
  - Country stakeholders from France, Germany, Italy, Spain, UK, etc.;
  - VISIONAIR (an EU-FP7 project on visualization).

DC-NET/INDICATE Workshop
(Beijing, 26 May 2011)

- **Title:**
  - **«e-Infrastructures and Digital Cultural Heritage»**

- **Goal:**
  - **To present the activities, going on in Europe and China, on the use of e-Infrastructures for the preservation of Cultural Heritage**

- **Location:**
  - **Central Library of the Peking University.**

- **Website:**
  - **http://agenda.ct.infn.it/conferenceDisplay.py?confId=547**
  - **Registration is already open.**

Summary and Conclusions

- DC-NET and INDICATE represent a combined effort to raise the awareness and foster the use of e-Infrastructures in Digital Cultural Heritage:

- They will have an impact on:
  - **e-Infrastructures**: use of the e-Infrastructures by a new community (the DCH) with new important requirements;
  - **European, national and international Cultural Heritage Programmes**: new advanced services and applications;
  - **Cultural Heritage Research:** awareness, shared guidelines, common standards;
  - **General Public**: online museums and cultural exhibitions, libraries and archives more accessible, usable and re-usable digital cultural content for education, cultural tourism, long-life learning, non-professional cultural interests, etc.

Thank you for your attention!

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