

infrastructures and digital cultural heritage: DCH-RP project

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The Central Institute for the Union Catalogue of Italian Libraries (ICCU)

- is the national center which promotes and coordinates **cataloguing** and **digitisation** activities of the Italian libraries
- is a body of the Italian Ministry for cultural heritage and activities
- is responsible for guiding, producing, adapting and disseminating the standard rules for cataloguing and digitisation of the library heritage
- is committed for the implementation of European digitisation projects (cross-domain approach)

ICCU Departments and Activities

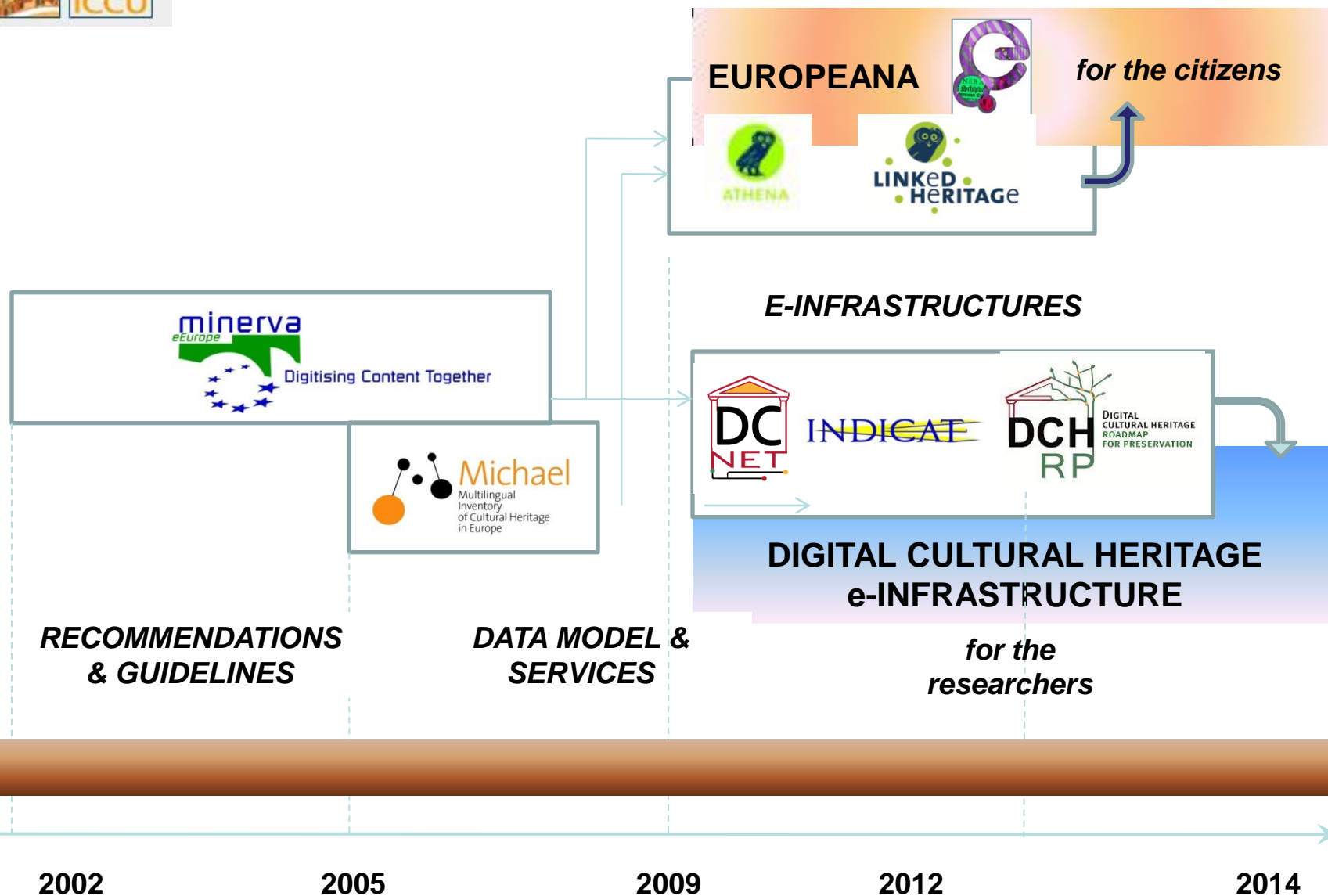
**ICCU is structured in
2 services and 6 departments**

1. Administrative Service
2. Service for the cultural promotion

Projects:

- Internet Culturale
- CulturaItalia
- Europeana (Italian partic.)
- World Digital Library (Italian partic.)
- European projects

1. Standards rules for cataloguing and digitisation
2. National Library Service (SBN) 4.900 libraries
3. Bibliographic information and activities, Registry of the Italian libraries
4. Digitisation and access to documents
5. Activities concerning bibliography, cataloguing and census of the ancient book
6. Census and management of the Italian bibliography of manuscripts



The needs of the DCH sector

1. High quality **information technology** management, to ensure trust, availability, reliability, long term safety of content, security, preservation and sustainability;
2. **Access facilities** to the final users (*the researchers*) who will search into the DCH e-Infrastructure for their research and to the cultural institutions that will deliver their data to the DCH e-Infrastructure;
3. **Interoperability** among existing cultural heritage repositories and of cultural heritage data with research data.

The needs of the DCH sector

- Digital Cultural Heritage-DCH is producing a large amount of digital content that need to be safely stored, permanently accessed and easily re-used by the researchers.
- The vision for the next two decades is to implement a federated infrastructure dedicated to support the application of open science in the arts and the humanities. Preservation is the first priority

DCH and the e-Infrastructures

- To focus is on the use of existing e-infrastructures as a channel for **delivery, access and preservation** of digital cultural heritage data
- **Storage, computing, connectivity** together with **authentication, authorisation** and accounting mechanisms offered by the e-infrastructures can well serve the needs of the sector
- To establish factual **cooperation** among three sectors (the research, the cultural heritage and the e-infrastructures) that are not used to work together

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- The diagram illustrates the relationship between three entities: DC NET, INDICATE, and DCH RP. DC NET is represented by a logo with a building icon and the text 'DC NET'. INDICATE is represented by a logo with the word 'INDICATE' in a stylized font and the text 'Support and demonstration'. DCH RP is represented by a logo with a tree icon and the text 'DCH RP' and 'DIGITAL CULTURAL HERITAGE ROADMAP FOR PRESERVATION'. A large double-headed orange arrow connects DC NET and DCH RP. Smaller double-headed orange arrows connect DC NET to INDICATE and INDICATE to DCH RP.

A Network for the European Research Area:

- Composed by Programme Owners and Programme Managers in the cultural sector
- To agree common perspectives & priorities across EU Member States
- To establish an operative dialogue between cultural heritage and e-Infrastructures communities in Europe,
- To identify constraints and capabilities in order to establish a plan of joint activities

Completed in March 2012

A project funded by EC FP7 e-Infrastructures

www.dc-net.org

Main results

New Service Priorities for driving the future implementation of new services joining cultural heritage and eInfrastructure activities

1. **Long-term preservation**
2. Persistent identifiers
3. Interoperability and Aggregation
4. Advanced search
5. Data resource set-up
6. User authentication and access control
7. IPR and digital rights management

INDICATE – a concrete approach

- To foster the **international cooperation** of eInfrastructures providers and cultural heritage users
- Target **regions**:
 - Mediterranean region, (Egypt, Turkey and Jordan)
 - Cooperation with China in liaison with the EPIKH Grid School

2012-2012

A project funded by EC FP7 e-Infrastructures

<http://www.indicate-project.org/>

Long Term Preservation

To review the current situation of digital preservation process and policies in Europe, the state of the art of the technology used or in development, the relation between preservation institutions and eInfrastructure providers.

Usage of eInfrastructure may assist to solve challenges like storage, access, data security and integrity and copyright protection in the long term. Virtual exhibitions

Virtual exhibitions

Guidelines for the realisation of virtual exhibitions. This handbook is targeted to cultural heritage professionals working in the valorisation and dissemination of knowledge also through exhibitions and performances made available online (“Handbook on virtual exhibitions and virtual performances”)

Geo-coded Digital Cultural Content

eInfrastructures are particularly useful when geo-referencing and geo-coding large historical maps due the complexity of the task.

DCH-RP: a Roadmap for the long-term preservation in DCH

- A Coordination Action with cultural institutions, eInfrastructure providers and a wide network of international organisations willing to contribute to the project
- Aims:
 - to harmonize data storage and preservation policies in the digital cultural heritage sector at European and international level
 - identify more suitable models for the governance, maintenance and sustainability for the infrastructure devoted to preservation of digital content

2012-2014

<http://www.dch-rp.eu/>

DCH-RP expected outcomes

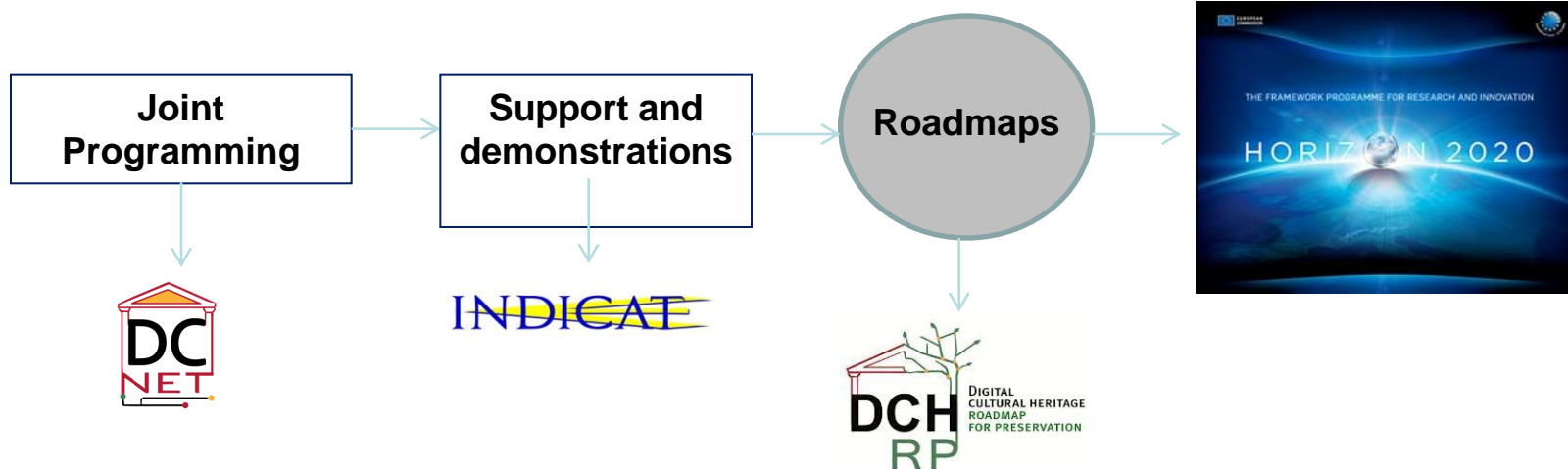
The main outcome will be a Roadmap for the implementation of a preservation infrastructure for DCH

- supplemented by **practical tools** for decision makers
- validated through a range of **proof of concepts**, where cultural institutions and e-infrastructure providers will work together on concrete experiments

DCH-RP Roadmap is intended as the first instance of the Open Science Infrastructure for DCH in 2020

The vision

- DC-NET, INDICATE and DCH-RP are part of a wider process, which started 10 years ago among cultural institutions
- This process entered in a new phase joining the research e-infrastructures
- Time is ready to start working towards an Open Science Infrastructure for Digital Cultural Heritage in 2020



DCH and the e-Infrastructures

- ARIADNE's aim is to bring together and integrate the existing archaeological einfrastructures.
- ARIADNE can benefit of the services offered by e-Infrastructures to implement a federated infrastructure dedicated to support the application of open science in archaeology
- The existing e-infrastructures can supply ARIADNE's network with advanced delivery, access and preservation of digital data services.

ARIADNE: the Italian participation

Expressed their interest in the project:

- Direzione Generale per le Antichità – Allestimenti museali
- IBC, Regione Emilia Romagna
- Direzione Regionale per i beni culturali e paesaggistici del Molise
- Soprintendenza per i beni archeologici dell'Umbria
- Soprintendenza per i beni archeologici di Cagliari e Oristano
- Soprintendenza Speciale per i beni archeologici di Roma
- Soprintendenza per i beni archeologici dell'Abruzzo
- Soprintendenza per i beni archeologici del Piemonte e del Museo delle Antichità Egizie
- Università di Macerata

Thank you.

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