



# Digital Cultural Heritage

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# Digital cultural content characteristics

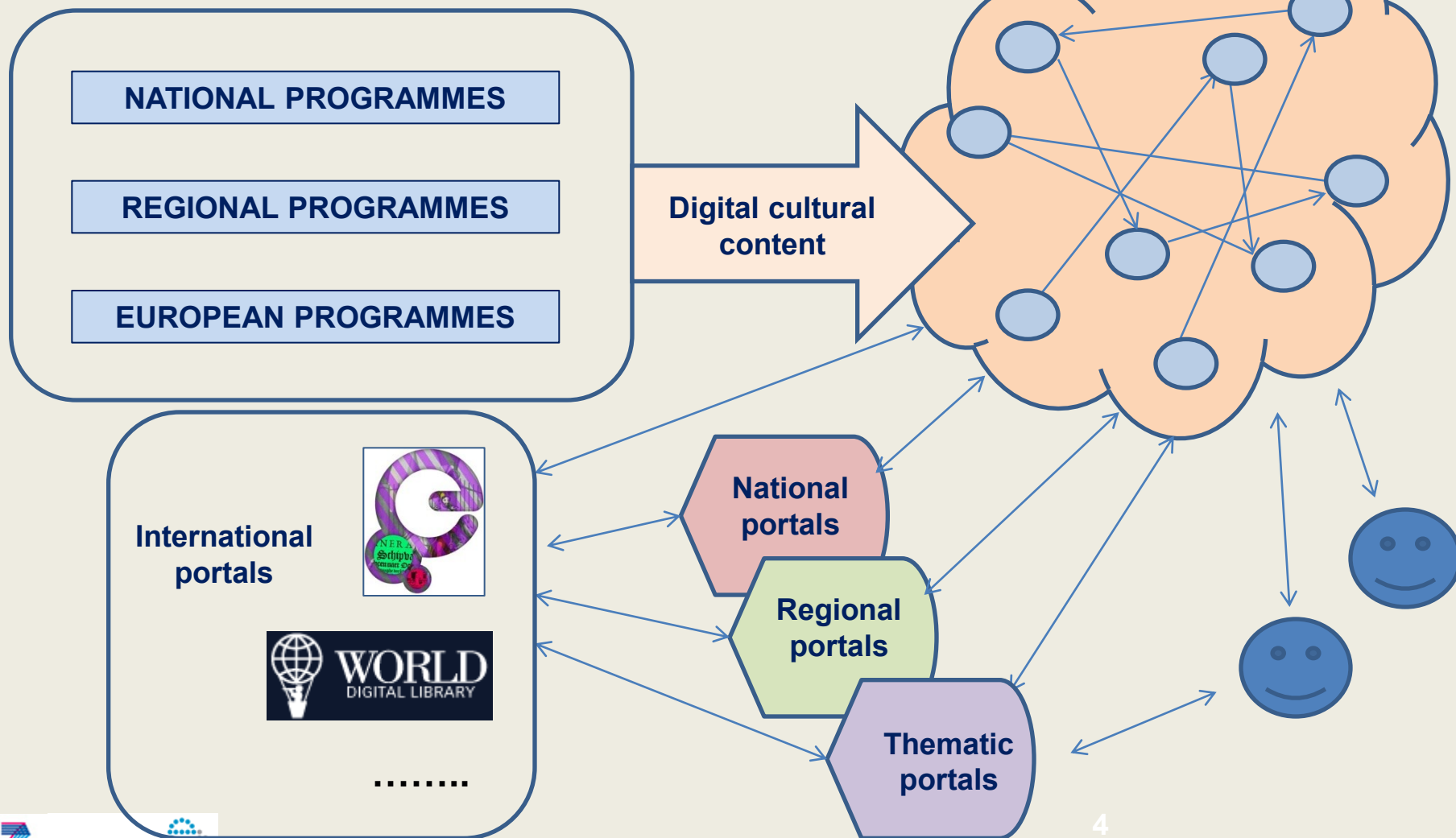
The **amount of digitised material** is growing very rapidly

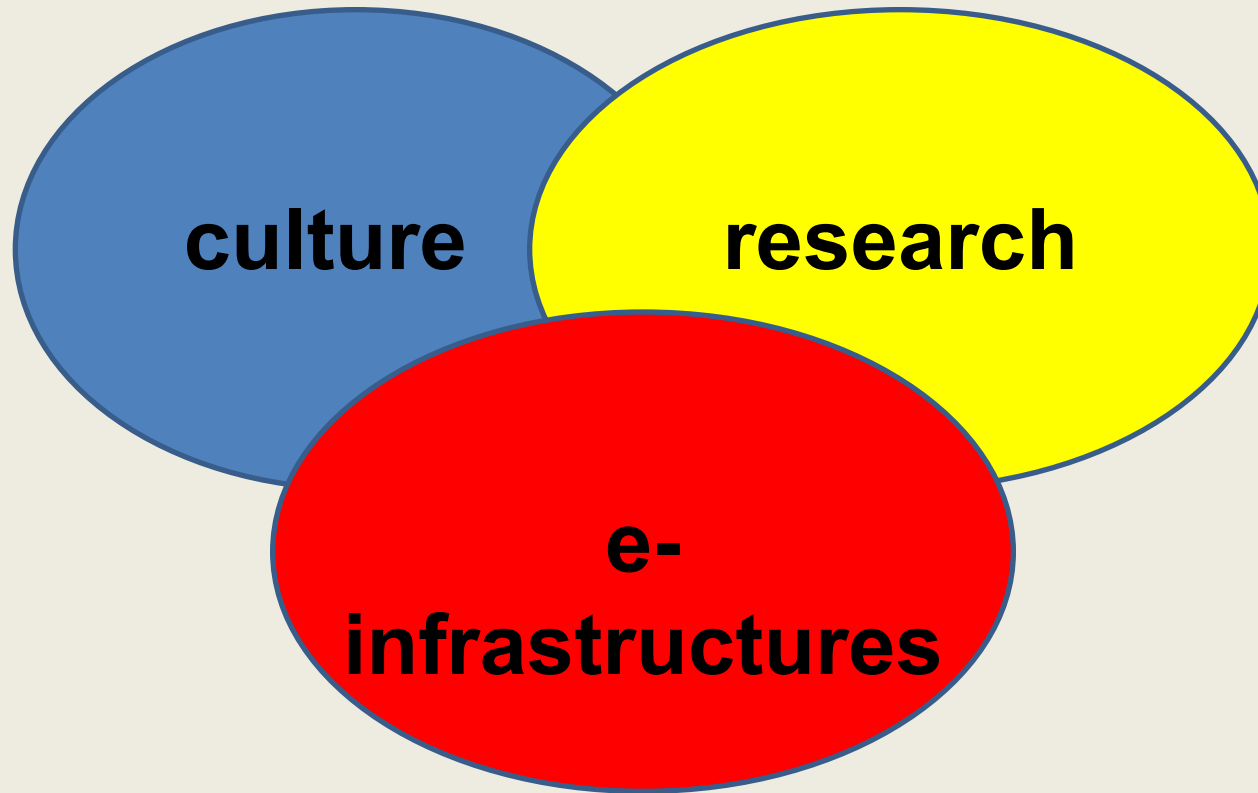
- **National, regional and European programmes** support the digitisation of the content of Museums, Libraries, Archives, Archaeological sites and Audiovisual repositories
- The generation of digital cultural heritage is accelerated also by the impulse of **Europeana** that is fostering the European cultural institutions to produce even more digital content
- Digital cultural heritage content are **complex and interlinked** through many relations



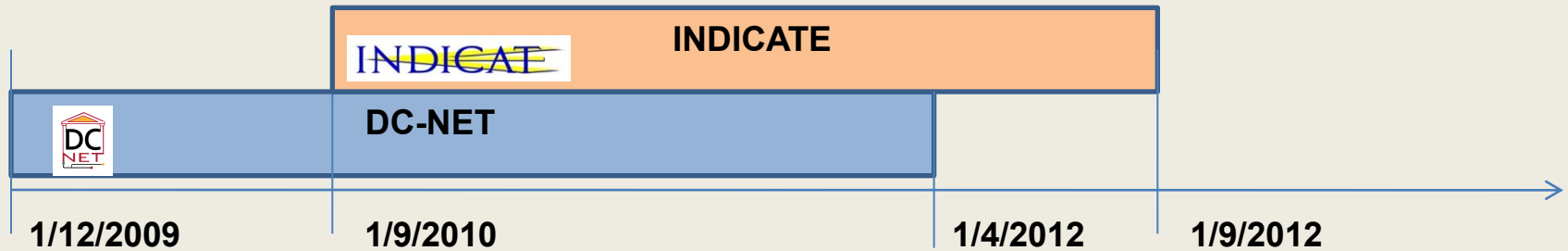
# THE VISION

## Data Continuum





Cooperation and coordination among these three sectors is at the core of the DCH e-infrastructure



- Two projects targeted to the same **DCH community**
- The **services priorities** identified in DC-NET are investigated in INDICATE
- The **joint calls** of DC-NET will contribute to the **sustainability** of the results of INDICATE.





# DC-NET objectives

An ERA-NET among European programme owners

## Core objectives:

- to establish a common awareness of perspectives, priorities, constraints and capabilities across the **digital cultural heritage (DCH)** and **e-Infrastructures** communities in Europe
- to prepare the **implementation** of an e-infrastructure devoted to the DCH sector
- To organise future **joint calls**

Started in December 2009, lasted until March 2012

A project funded by EC FP7 e-Infrastructures



# DC-NET outcomes

- A list of **service priorities** and **best practices** validated by representatives of the DCH sector and e-infrastructure providers
- A Joint **Activities Plan** to support this implementation
- A wide **Network of Common Interest** including experts from the humanities, ICT, e-infrastructures, memory institutions, programme managers
- A set of **Memorandum of Understanding** and **Cooperation Agreements** to be exploited to continue the work beyond the EC funding period





# Services priority ordering

A prioritised list of the most immediately important services has been agreed:

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 objectives

A Coordination Action with International dimension

- Stimulating the **international cooperation** of eInfrastructures providers and cultural heritage users
- Target areas:
  - Mediterranean region, (Egypt, Turkey and Jordan)
  - Cooperation with China in liaison with the EPIKH Grid School
  - exchanges with South America in the frame of experiments for live distributed performances

Started in September 2010, it will last until September 2012

A project funded by EC FP7 e-Infrastructures



# INDICATE expected outcomes

- Three concrete **case studies** on:
  - Long term digital preservation,
  - virtual exhibitions
  - Geo-coded cultural content
- Two **Pilots** on:
  - semantic enrichment using cloud computing
  - distributed cultural repositories using the grid
- **Strategies and future plans** for the continuation of the initiative



# eCulture Science Gateway

- easy-to-use web interface and single sign-on mechanism to access digital archives of Cultural Heritage
- based on the Liferay
- portlet to interface gLibrary (the framework developed by INFN and COMETA to create and manage digital repositories on the Grid)
- AAI supports Federations of Identity Providers enabled by Shibboleth
- configured as a Service Provider of IDEM and CARSI



# DC-NET & INDICATE cooperation

- Links were established and nurtured with other projects in the two complementary spheres of DCH and e-Infrastructures.
- These include Linked Heritage and the whole Europeana family, INDICATE, EPIKH, CHAIN, CHARISMA, D4SCIENCE, DL.org, e-InfraNET, EUMEDGRID-Support, GRDI-2020, JHEP, NET-HERITAGE.



# Positioning in the DCH Community

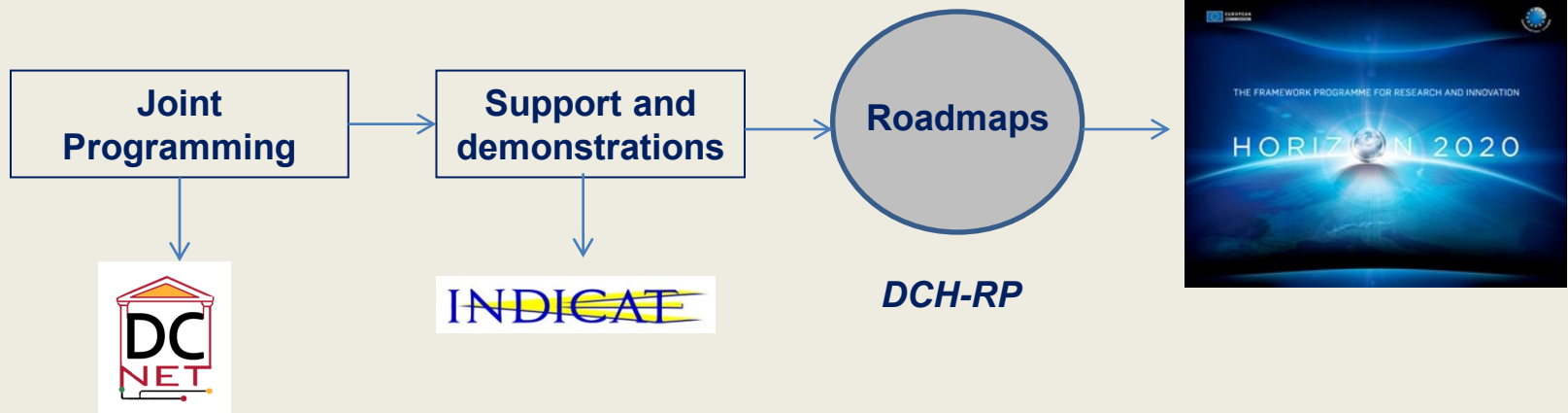
- All the partners of DC-NET participate in **MSEG**
- The Belgium representative is Member of **ESFRI** and **eIPF**
- The Coordinator is the **Chair of JPI-CH**
- The French representative sits in the **Executive Board of Europeana Foundation** and in the **Governing Board of JPI-CH**
- The Project Manager sits in the **Scientific Advisory Board of JPI-CH**
- Project Manager and Technical Coordinator participate to **JHEP**, the support action for JPI-CH.





# The vision

- INDICATE and DC-NET are part of a wider process, which started 10 years ago among cultural institutions
- Time is ready to start working towards an Open Science Infrastructure for Digital Cultural Heritage in 2020





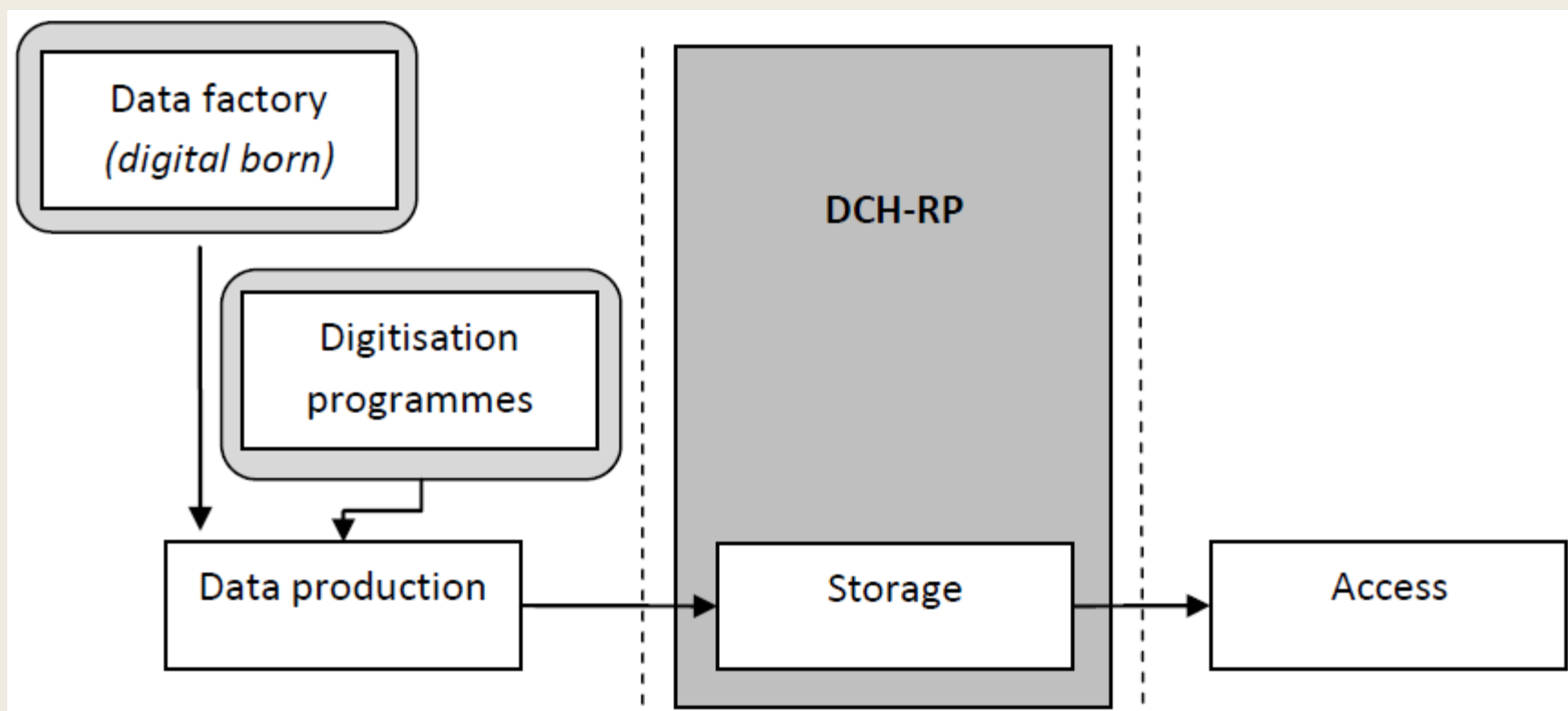
# Creating a validated Roadmap for the long-term preservation DCH

- The use of existing research e-infrastructure is an efficient channel for the delivery of advanced services to the digital cultural heritage
- To achieve this goal, NREN and NGI facilities needs to be complemented with targeted specific services
- DC-NET and INDICATE started the work
- DCH-RP will continue adding more concrete results in the specific area of the **digital preservation**



# DCH-RP characteristics

- A Coordination Action (under negotiation) with cultural institutions, e-infrastructure providers and a wide network of international organisations willing to contribute to the project
- DCH-RP refers to the digital preservation of digital representation of cultural objects (not to the preservation of physical cultural objects).
- DCH-RP deals with the storage phase, which includes both '*long-term preservation*' (including dark archives) and '*short-term preservation*' (storage for a relatively short period of access).





## DCH-RP objectives

- i. to harmonise data storage and preservation policies in the DCH sector at European and international level
- ii. to progress with the dialogue among DCH institutions, e-Infrastructures, research and private organisations
- iii. to establish the conditions for these sectors to integrated their efforts into a common work
- iv. To identify the most suitable models for the governance, maintenance and sustainability of such integrated infrastructure for digital preservation of cultural content



# DCH-RP expected outcomes

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

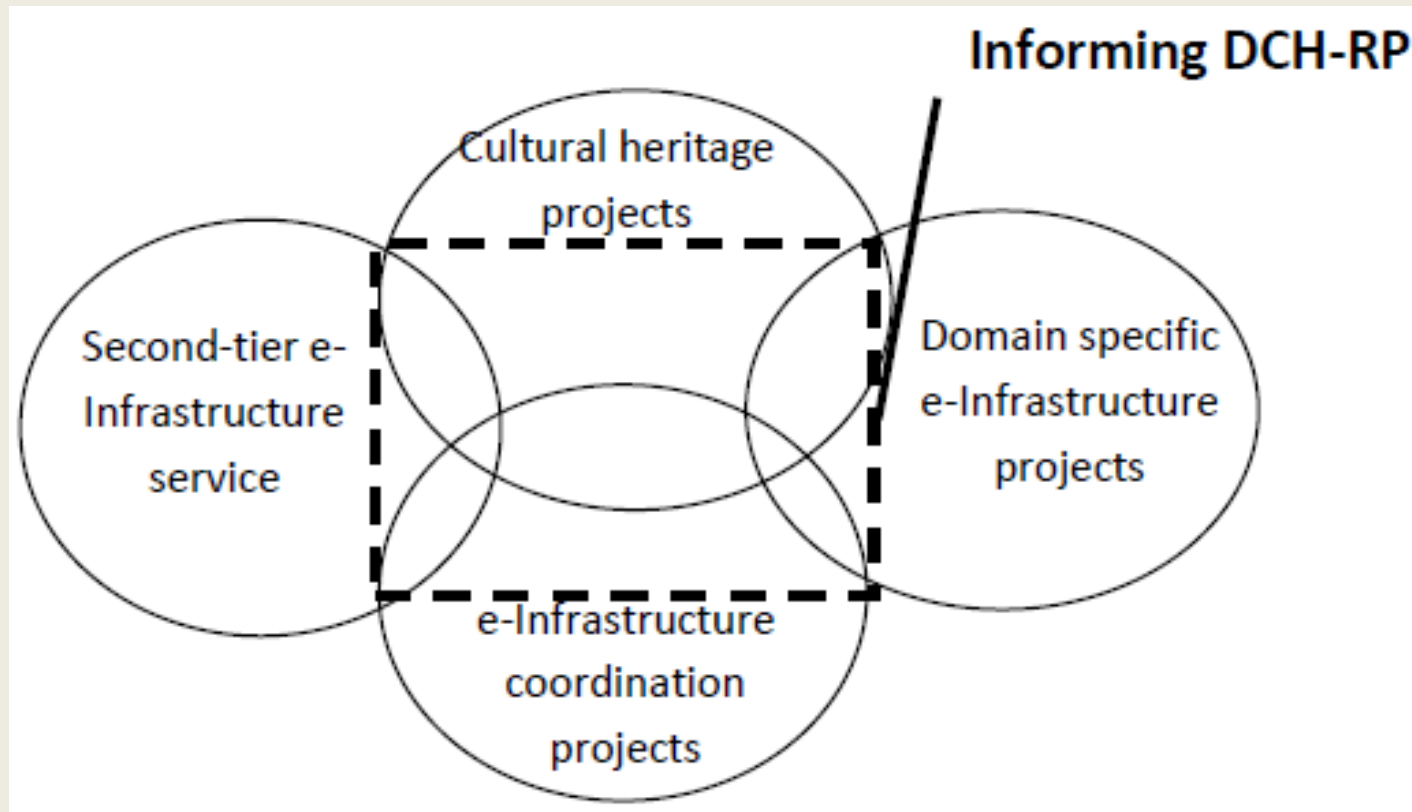
- supplemented by practical tools for decision makers
- validated through a range of proof of concepts, where cultural institutions and e-infrastructure providers will work together on concrete experiments

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





# Cooperation





# International dimension

- DCH-RP will establish a practical liaison among the participants to the project that can represent a model of cooperation also for the rest of the sector
  - to start with the thirteen partners,
  - to move then to the 20 ‘external partners’
  - and eventually to become pan-European and global.





**[www.digitalmeetsculture.net](http://www.digitalmeetsculture.net)**

A contribution to the **dissemination of international initiatives in the DCH sector**

A world-wide communication platform about the encounter of the digital technologies with the cultural sector



Contribute with your stories



Register on the portal to increase your visibility

DIGITAL **CULTURE**  is an initiative of  PROMOTER



# THANK YOU

For further information

[www.dc-net.org](http://www.dc-net.org)

[www.indicate-project.eu](http://www.indicate-project.eu)

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