



INDICAT
International Network
for Digital Cultural
Heritage e-Infrastructure



Digital Cultural Heritage

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Digital cultural content characteristics

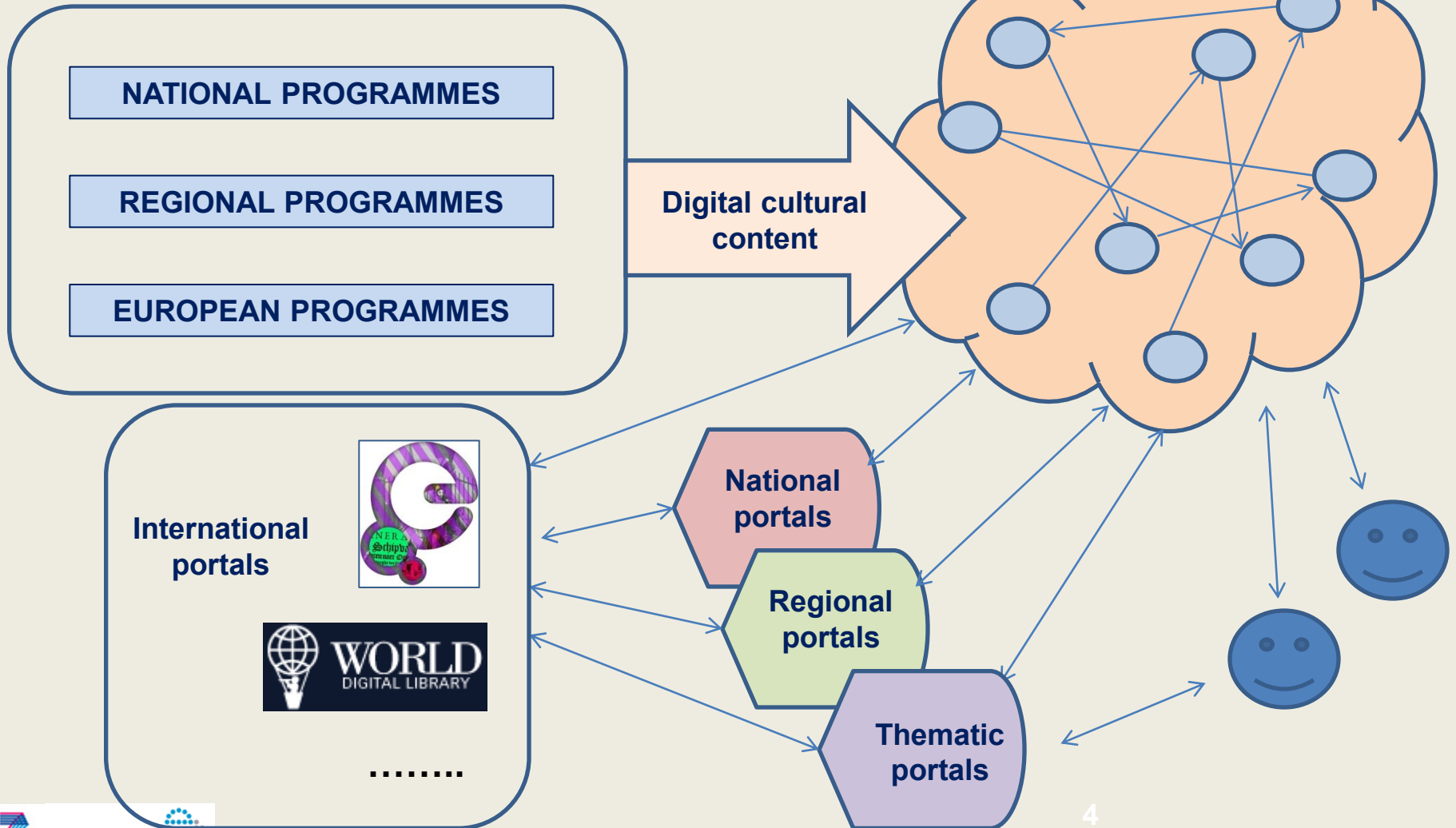
The **amount of digitised material** is growing very rapidly

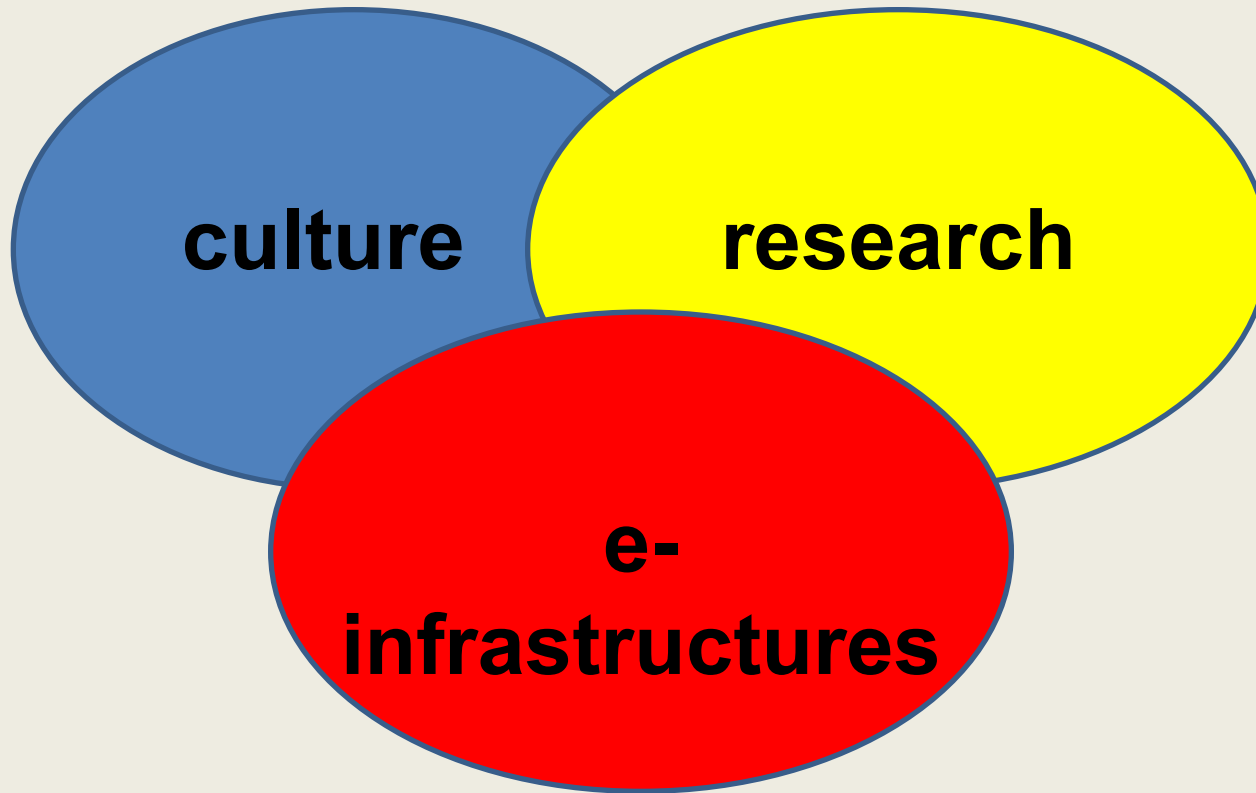
- **National, regional and European programmes** support the digitisation of the content of Museums, Libraries, Archives, Archaeological sites and Audiovisual repositories
- The generation of digital cultural heritage is accelerated also by the impulse of **Europeana** that is fostering the European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



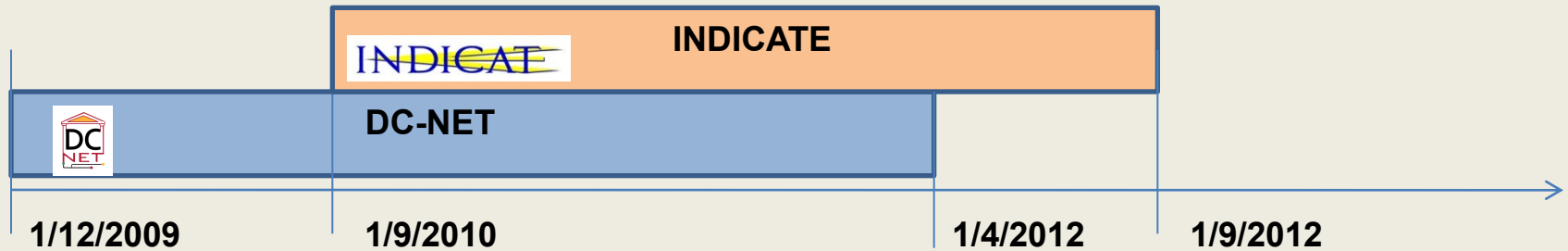
THE VISION

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.



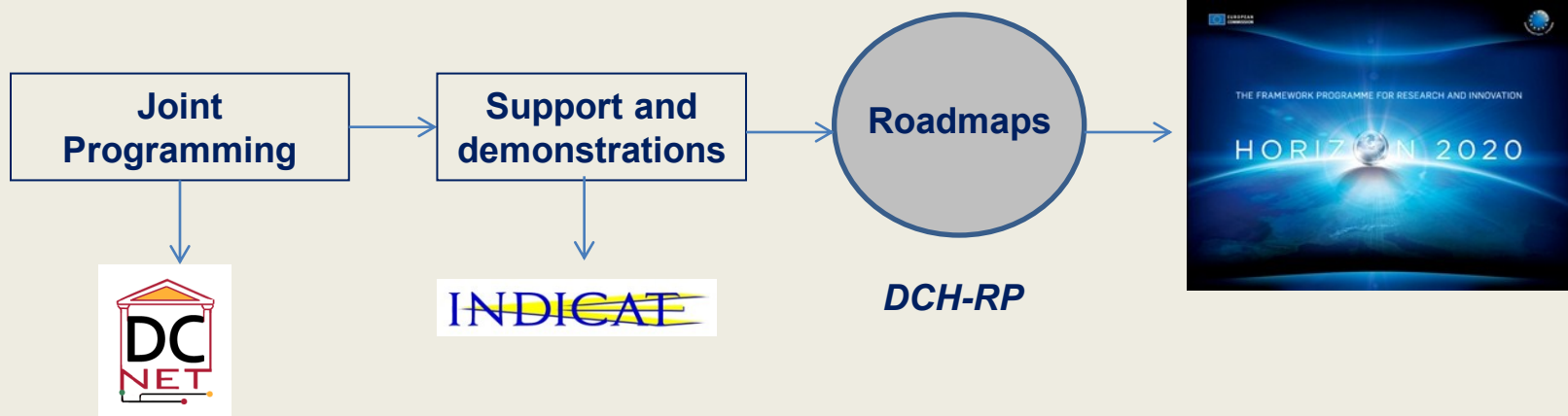
Positioning in the DCH Community

- 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





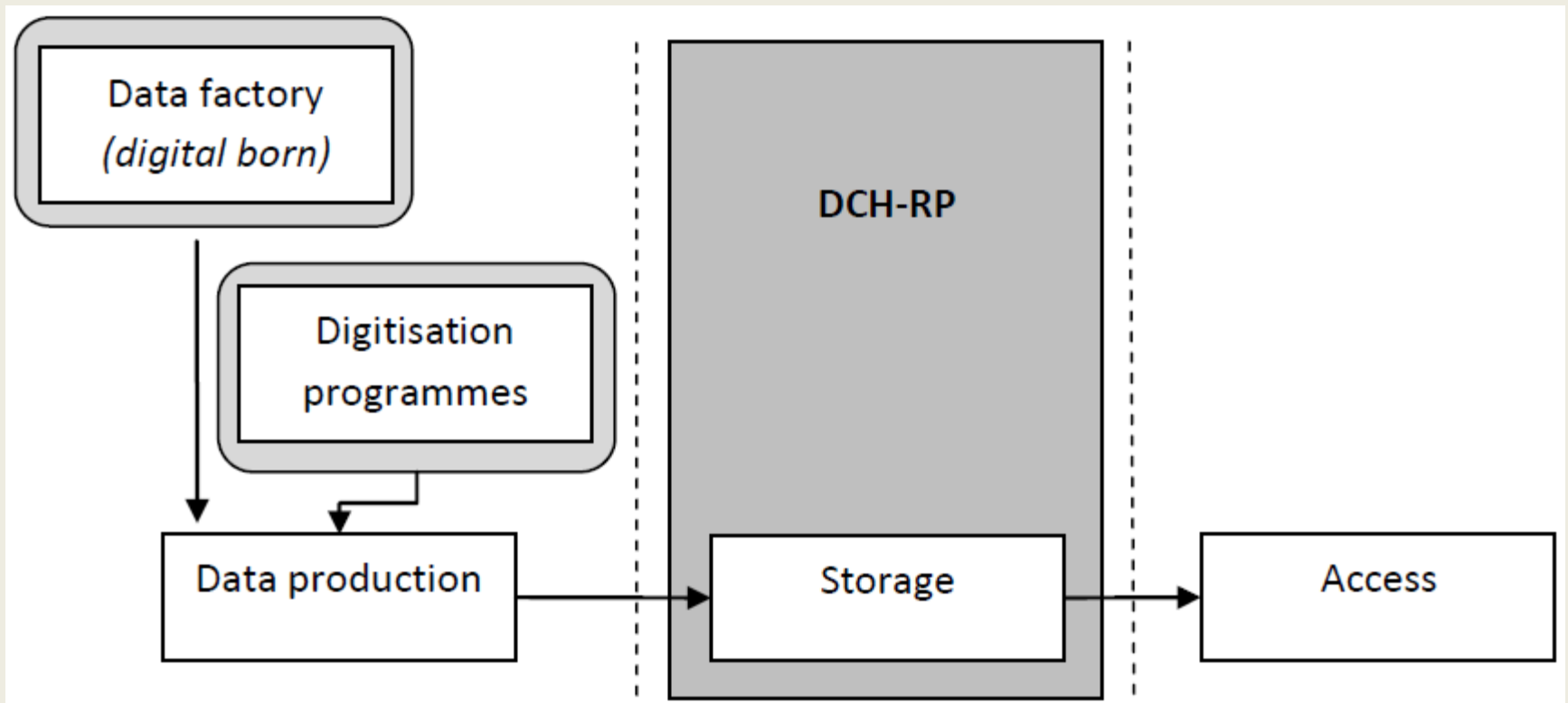
Creating a validated Roadmap for the long-term preservation DCH

- 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

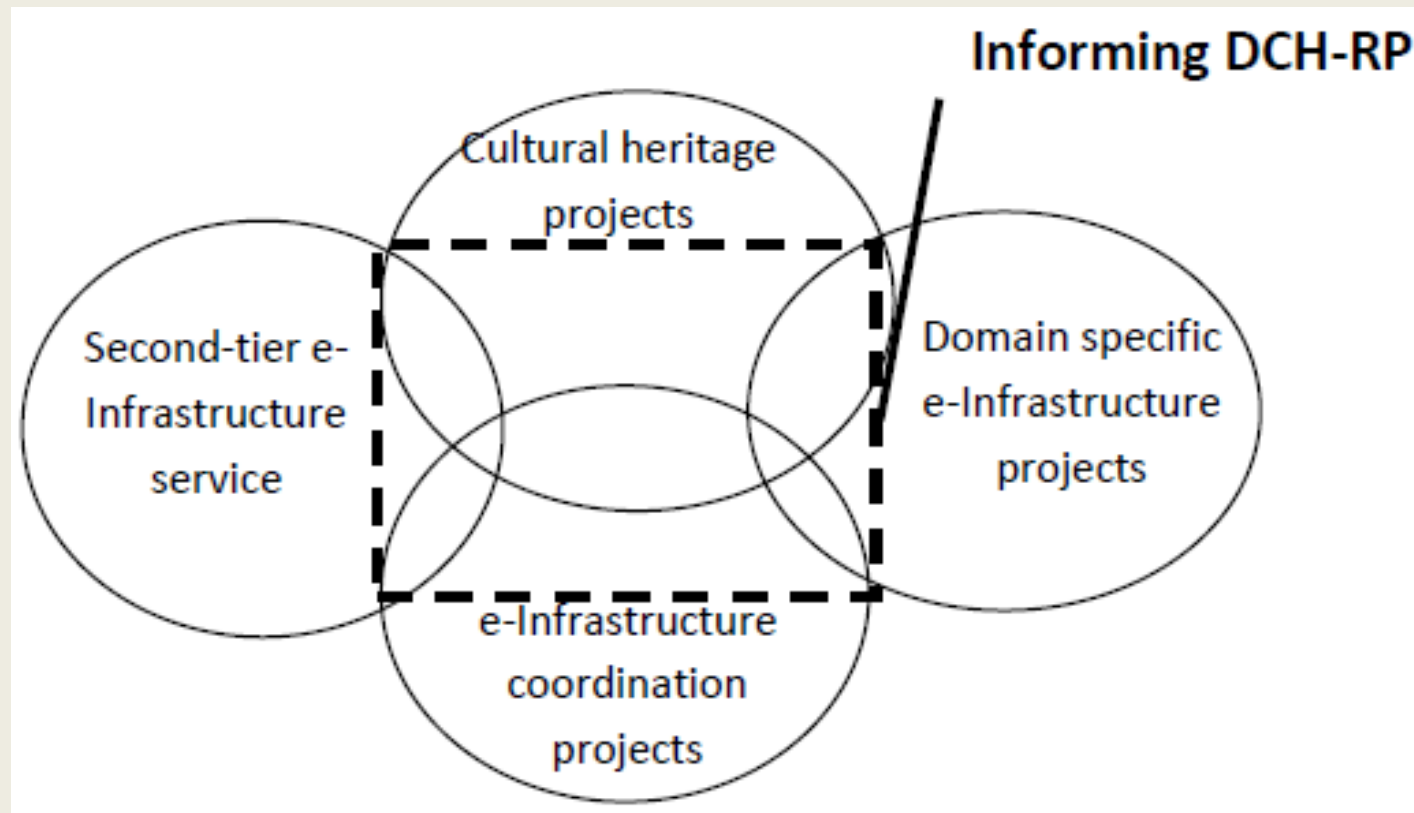
The main outcome will be a Roadmap for the implementation of a preservation infrastructure for DCH

- 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

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



THANK YOU

For further information

www.dc-net.org

www.indicate-project.eu

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