Update on the eArchiving Initiative: Latest developments and next steps

Janet Anderson, Sven Schlarb, Jaime Kaminski, Carlota Bustelo, Miguel Umlauff, Jože Škofljanec

DLM Forum Meeting

Brussels, 28th May 2024

Photo Baltimore castle, Ireland. J.Anderson

Overview

- Project Management (Janet Anderson)

- CORE Activity (Sven Schlarb)

- Capacity Building: Training (Jaime Kaminski)

- Capacity Building: Outreach (Carlota Bustelo)

- Support Activity (Miguel Umlauff)

- Synergy Building Activity (Jože Škofljanec)

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PM: Project Management

- Janet Anderson, Highbury R&D, Ireland

The eArchiving Initiative

- Start date 1st October 2022
- **Two years (Phases I and II)** + two possible annual extensions **(Phases III and IV, repeat of I and II)**
- **End of September 2024 is end of first 2 years**
- Everything is on track: deliverables, milestones etc.

The eArchiving Initiative: the five Activities

eArchiving Key information
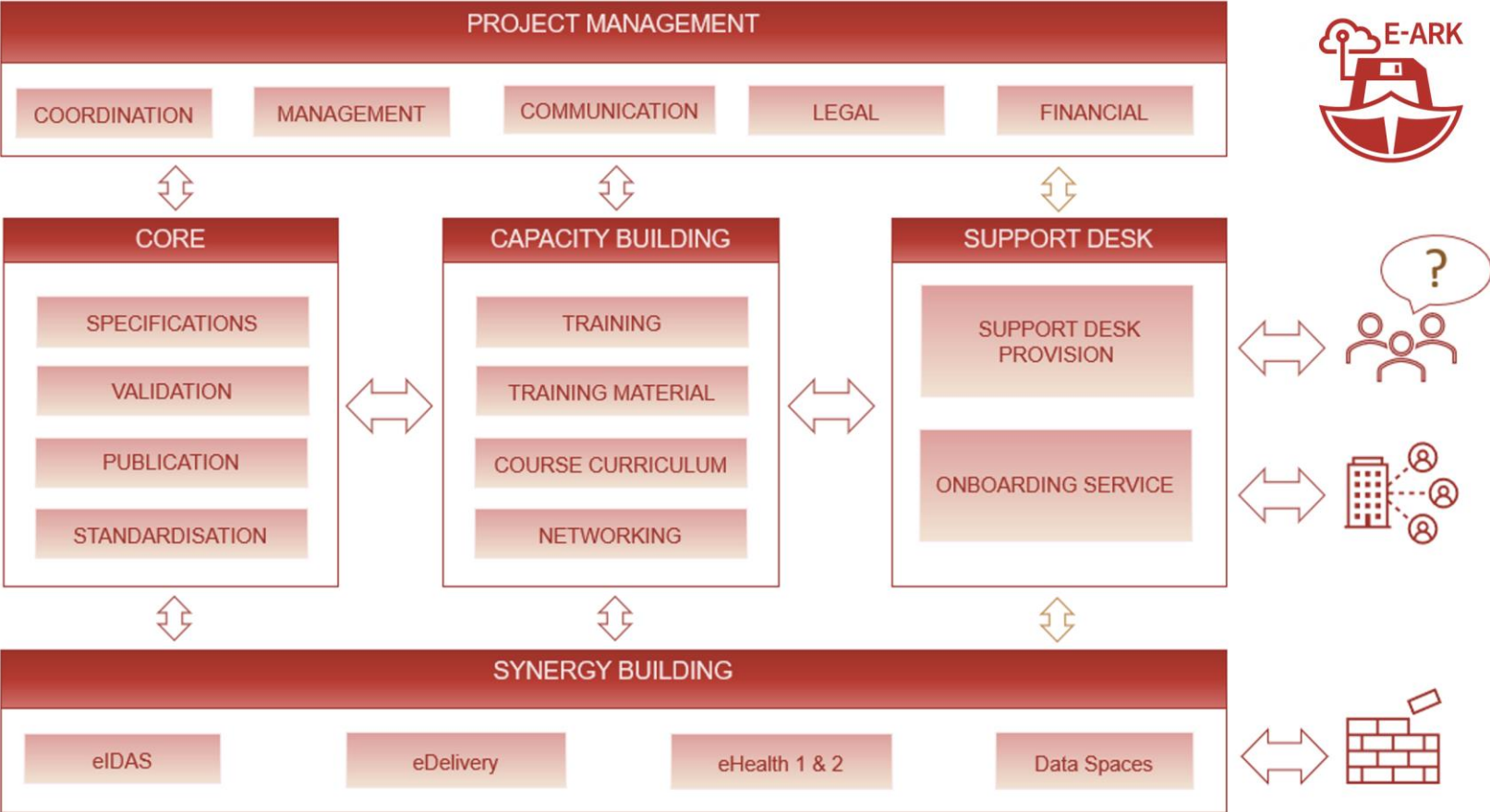
E-ARK Consortium

5 Group Members:
- Austrian Institute of Technology (AIT), **LEAD**
- Highbury R&D, Ireland
- Gabinete Umbus, Spain
- KEEP Solutions, Portugal
- DLM Forum, Estonia

6 subcontractors:
- Association des Archivists Francophones de Belgique
- EasyLean, Estonia
- Ever Team Software, France
- IdenTrust, Belgium
- KMD, Denmark
- Prisma Cultura, Italy

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eArchiving Key information

E-ARK Consortium

15 organisations via DLM Forum:

- Archives of the Republic of Slovenia,
- Docbyte, Belgium
- ~~ES Solutions, Sweden~~Digital Lifecycle Management
- Geoarh, Slovenia
- Instituto de Engenharia de Sistemas e Computadores – Investigação e Desenvolvimento em Lisboa, (INESC-ID), Portugal,
- National Archives of Estonia, Finland and Norway
- Stichting Open Preservation, Netherlands
- Penwern, U.K.
- Poliphon, Hungary
- Serda, France
- Swiss Federal Archives,
- Kommunalförbundet Sydarkivera, Sweden
- Kaakkois-suomen Ammattikorkeakoulu (Xamk), Finland

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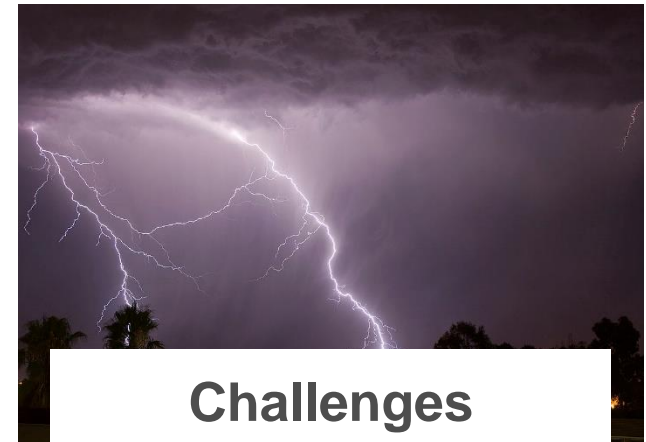
Highlights, Challenges

Highlights

1. Annual review and report
2. News items
3. Newsletter
4. Executive Summary published
5. 10th Anniversary event

Highlights

1. Lisbon All Staff meeting
2. Monthly all staff catch up
3. Conformance Seal
4. Specifications update
5. White paper
6. Curriculum

Challenges

1. Management issues
2. Consortium topology

Overall Reflections

This was a most productive time

We are ready for the Phase III

Communication is key

F2F networking is most helpful

3 images via Powerpoint, Bing, Creative Commons licence. Photo Janet Anderson.

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Core Activity

Sven Schlarb (AIT, Austrian Institute of Technology)

CORE tasks

Core – E-ARK specifications, technology, publication, and synergies

CORE.1

Specifications Maintenance and Knowledge Base

CORE.3

Validation Testing Tools and Software libraries, related to the eArchiving specifications
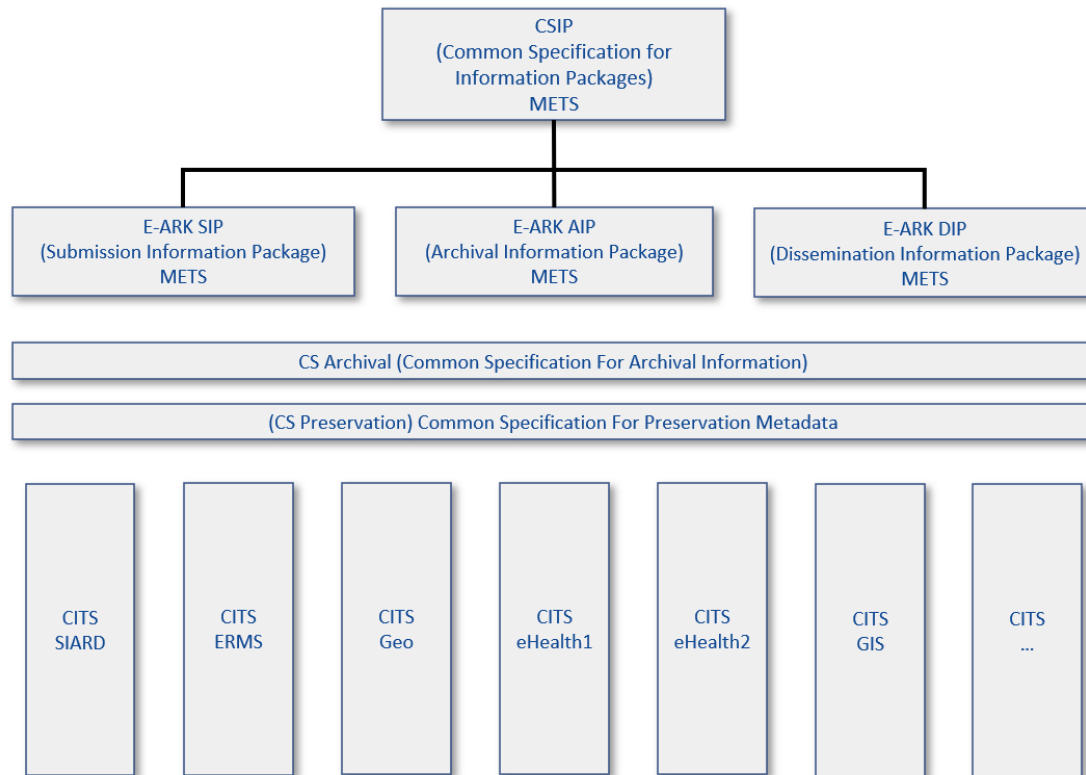
CORE.2

New specifications

CORE.4

Online publication

CORE.5

Standardisation and interoperability Engagement

Generated by DALL·E 3

CORE 1.1 E-ARK Specifications

- [E-ARK specifications](#) are being maintained which means that maintenance is executed in response to the queries, comments, and feedback provided by the community.

- Update of all the specifications that will be published on the 17th of May 2024.

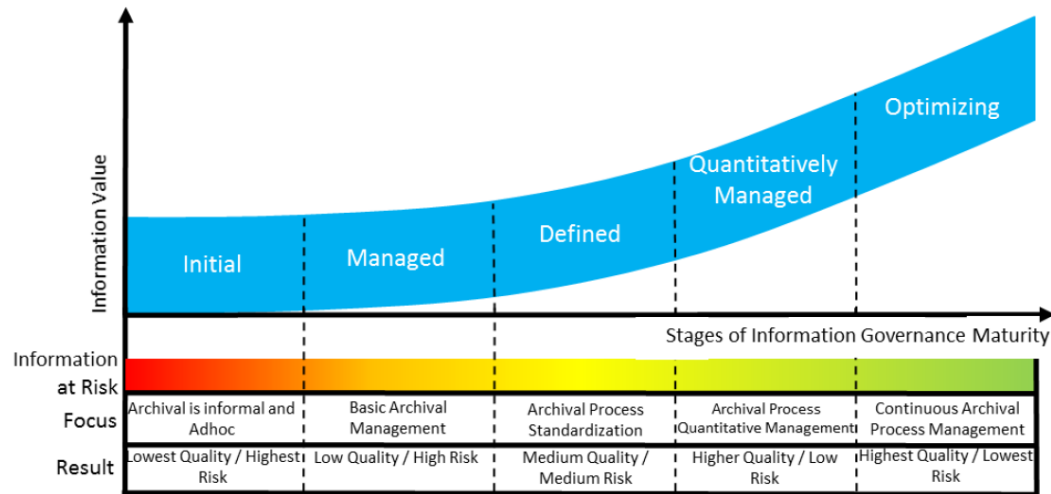# CORE 1.2 (A) Knowledge Base

- **Reference Architecture**

- Version 2.0 is up and [running at the Knowledge Centre](#).
  - Revised views
  - New views
    - Archiving by Design
    - Capability Maturity Model.

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CORE 1.2 (B) Knowledge Base

- **Capability Maturity Model**

- Design of an **automatic assessment of the Reference Architecture** according to the maturity model criteria.
- New release of the **Maturity Model (v2.2)** is available on the Knowledge Centre.

3D Product Model (PM) CITS

- Draft of the 3D Product Model (PM) CITS specification and guideline is now complete
  - Example AIP and METS profiles
  - Review from LOTAR group members and with reviewers within the E-ARK team requested.
- METS profiles update:
  - Using dictionary pairs to record dependencies
  - Using dictionary pairs for requirement history
  - Addition of a complete Appendix example of all requirements
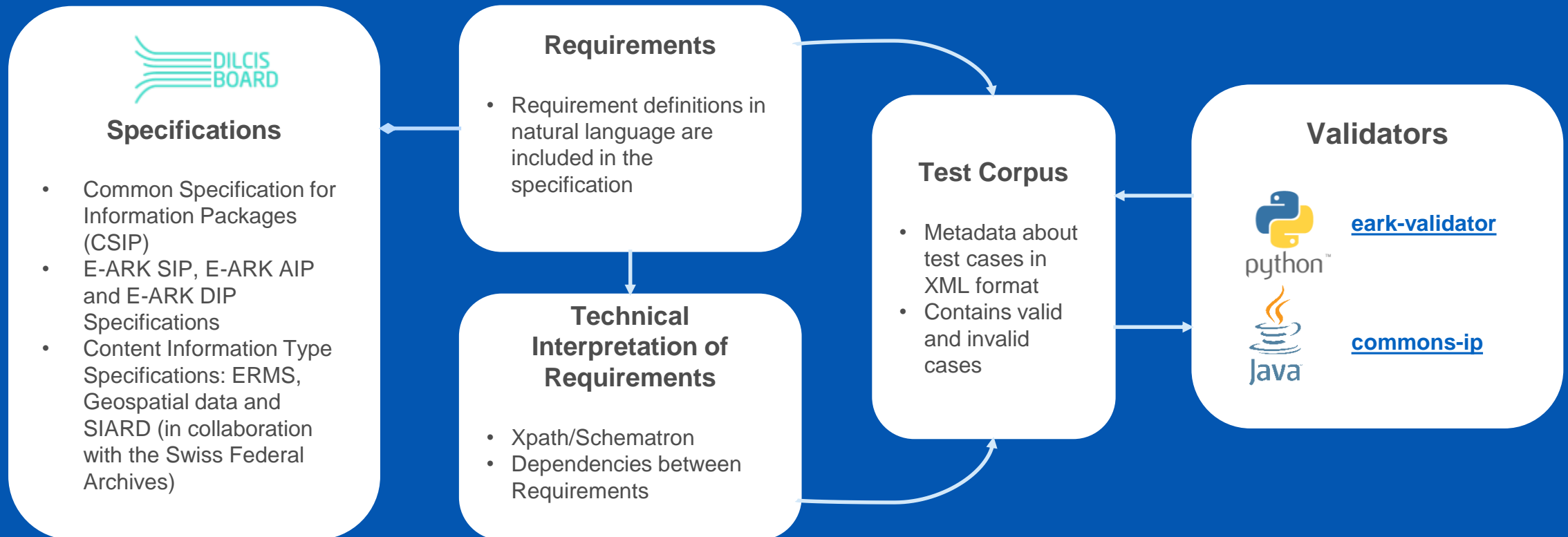
https://lotar-international.org

3D Product Model (PM) CITS

- Preparing 3D PM CITS for publication using the GitHub publication pipeline
- 3D Heritage CITS meetings
  - 3D Heritage specification now in draft,
  - Guideline document will follow
  - 3D E-ARK conformant packages for 3D Heritage Models (Meemoo in the Netherlands)

3D model of the Villa of Oplontis, Martin Blazeby, POCOS_Vol_1.PDF

Validation Framework

Specifications

- Common Specification for Information Packages (CSIP)
- E-ARK SIP, E-ARK AIP and E-ARK DIP Specifications
- Content Information Type Specifications: ERMS, Geospatial data and SIARD (in collaboration with the Swiss Federal Archives)

Requirements

- Requirement definitions in natural language are included in the specification

Technical Interpretation of Requirements

- Xpath/Schematron
- Dependencies between Requirements

Test Corpus

- Metadata about test cases in XML format
- Contains valid and invalid cases

Validators

eark-validator

commons-ip

eArchiving Conformance Seal

1. Validation

Validation is the process of **testing a single Information Package (IP)** file for conformance. You can start by verifying if individual information packages of your digital repository or archival solutions are valid by using the **Validation Service** to test if your information packages are conformant with E-ARK specifications.

> Validation Service
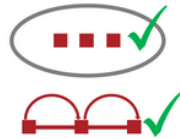
2. Self-assessment conformance

eArchiving conformance of a digital archive or archiving solution includes **to meet the E-ARK requirements for ingest and processing of Information Packages**, in addition to the validation of a representative sample of information packages.

> Self-Assessment

3. Conformance application review

A brief interview with the eArchiving Team is arranged to review the evidence provided and verify the implementation of E-ARK **requirements for ingest and processing of Information Packages**.

> Apply for a Review

4. Seal

After successful review the **eArchiving Conformance Seal** is **awarded by the European Commission**.

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Conformant archives, repositories, and digital preservation solutions

Name	Organisation(s)	Archive/ Repository/ Solution	Seal		
			SIP	**AIP**	**DIP**
Engineering and Science Library project	Piql (Norway, Spain), Airbus Space and Defence (Spain), and the Central Library of Slovak Academy of Sciences (Slovakia)	**Project**: E-ARK conformant archival systems with embedded Archivematica preservation workflows for science and engineering content.	PROV	DMD	LD
			CITS SIARD	CITS ERMS	CITS Geo
			E-ARK v2.1.0, 2024 eArchiving Conformance Assessment GS Projects report (11.08.2024)		

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Capacity Building

Carlota Bustelo (Gabinete, Spain)

Capacity Building KEY TASKS

Capacity Building Key tasks

- **Task CB.6**

  - **User Capacity Building:** Capacity building of appropriate organisations and users, promoting the need for sustainable data and digital preservation, and the use of eArchiving as a model

- **Task CB.7**

  - **Transnational Specialist Network:** Foster the creation of a trans-national network of specialists with respect to data sustainability and digital preservation by providing the opportunities to meet

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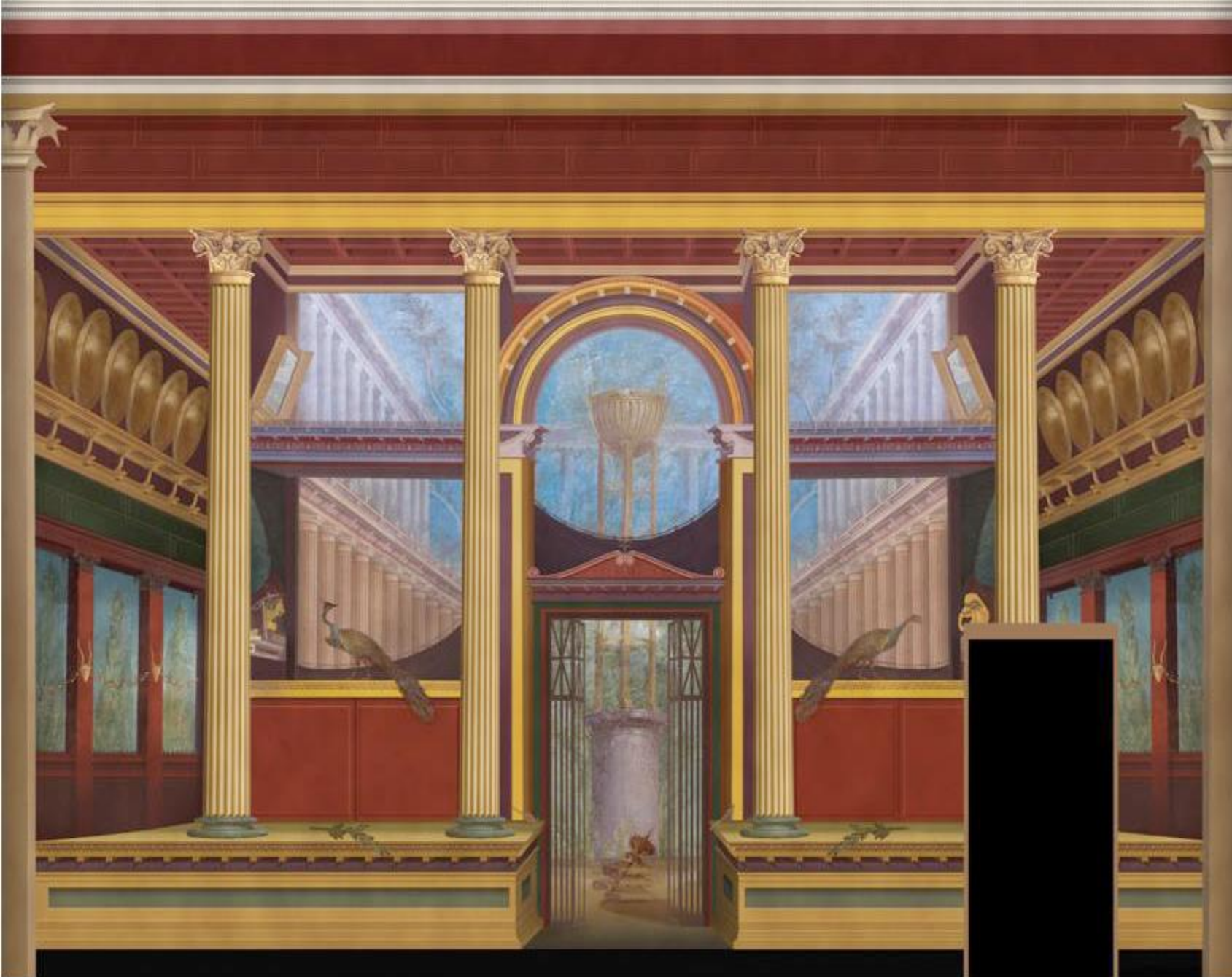
- **GENERAL**
  Communication Plan- Channels

  Press Office

Task CB.6
General events:
- "eArchiving 2022-2023". Virtual, April 2023
- "eArchiving Initiative Summit" Salamanca/Hybrid, October 2023.
- "10 years of eArchiving" Brussels/Hybrid, May 2024

Task CB.7
Subdomain events
- Solution providers eIDAS Virtual, September 2023
- Workshop on geodata Brussels/hybrid, May 2024

Participation in other events
Geoconference (2023), PV2023, DLM Forums (2023,2024), Digital Archiving Futures (Mikkeli, Sept 2024), iPRES 2024

Digital restoration by Martin Blazeby of fresco from Room 15, Roman Villa at Oplontis.
© King's College London 2011.

Support Activity

Miguel Umlauff (Gabinete, Spain)

Key Tasks

Task SUP.1 Support Desk Provision

- Set-up support desk access point

- Set-up ticketing system

- Set in place the review system

Task SUP.2 Onboarding Services

- Set-up CRM tool

- Set-up assessment, uptake and follow-up procedures

- Set-up registry of external events

@D3Damon@gettyimages.com

eArchiving services

Stakeholders Onboarding - Onboarding process

Discovery		Set up					Improvement	
PROSPECTING	ELICIT requirements	SELECT eArchiving solutions	DESIGN eArchiving infrastructure	DEPLOY eArchiving solutions	INTEGRATE w/ other solutions	OPERATE eArchiving solutions	ASSESS	IMPROVE
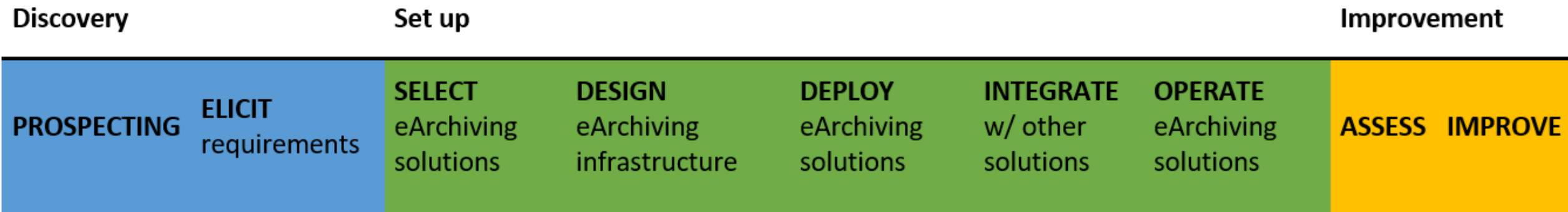
In each step we expect your feedback

support@e-ark-foundation.eu

eArchiving services

Stake Holders On-boarding-Project Status

37	**different projects that we know are reusing eArchiving components**
6	different projects that we know of are **committed to reusing** eArchiving components
21	different projects that we know of are **committed to analyse** eArchiving components

eArchiving Services

Where do people interested in eArchiving come from?

Origin of eArchiving Contacts
- EU Countries
- Non-EU Countries

Created with mapchart.net

Origin of eArchiving Contacts
- Rest of the world

Created with mapchart.net
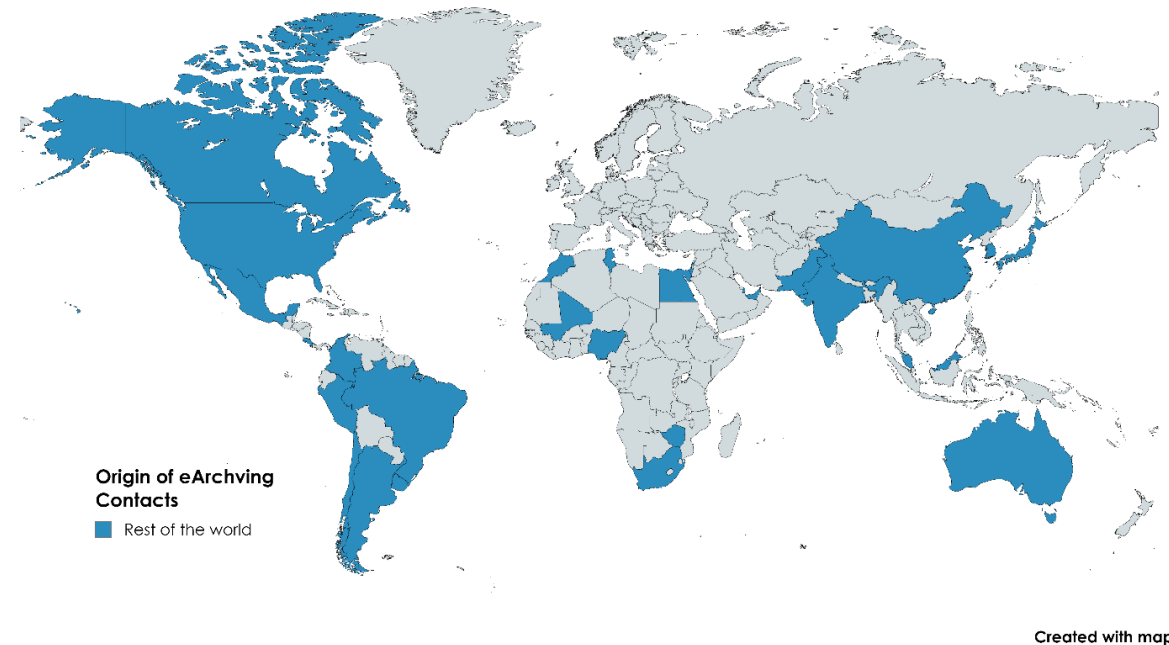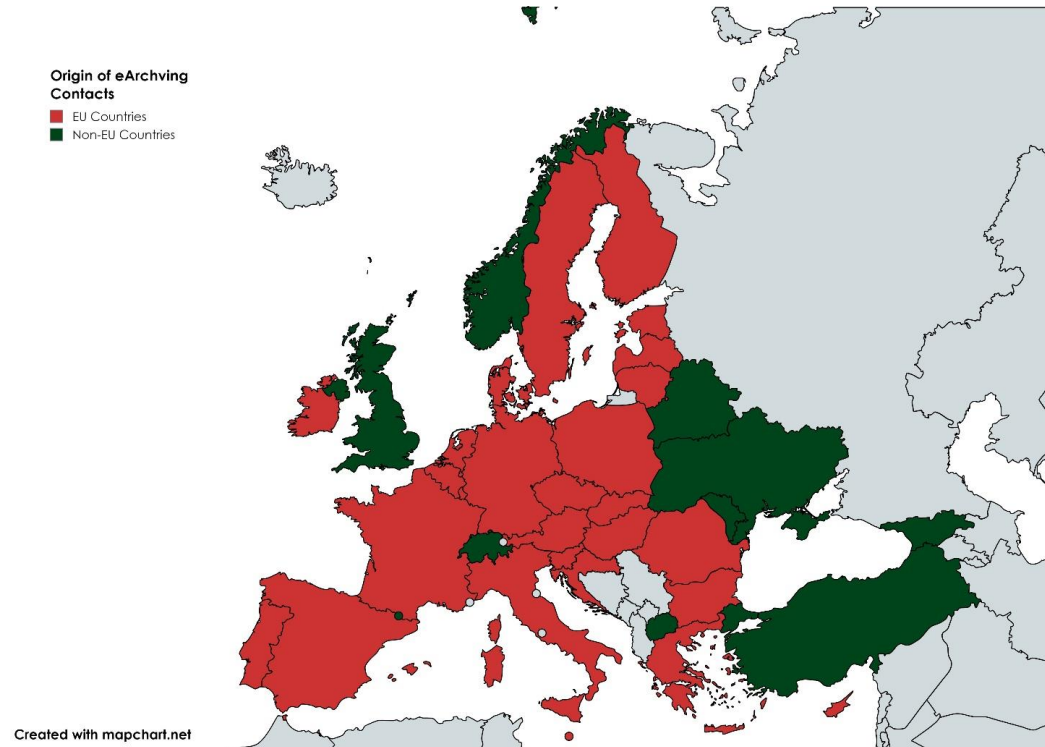
eArchiving Services

The eArchving Support desk

Ai-Generated Image using Bing Co-pilot

Need any assistance implementing your eArchiving project?

Please contact us.

Ciutat de les Arts i les Ciències, València, Valencia, Spain
(Santi Garcia – CC-BY-3.0 license).

Capacity Building Activity – Training

Jaime Kaminski , Highbury R&D, Ireland

CB: Training

- CB.1 Multilingual training

- CB.2 Train the trainer

- CB.3 Standalone training

- CB.4 Generic Services project support

- CB.5 eArchiving academic curriculum

Webinars 2023–24

Date	Title	Presenter	Organisation(s)
27 Apr, 2023	eArchiving standards for system independent storage of authorisation metadata	Sven Schlarb	AIT
18 May, 2023	Distributed Digital Preservation in practice	Luís Faria, Miguel Guimarães	KEEP Solutions
15 Jun, 2023	The Large object handling capabilities of SIARD with the DPTK	István Alföldi	Poliphon
20 Jul, 2023	Creating E-ARK conformant Archivematica preservation workflows	Stephen Mackey	Penwern
21 Sept, 2023	Using open-source tools for eArchiving	Anssi Jääskeläinen	XAMK
19 Oct, 2023	Using eArchiving for FAIR access to long-term geospatial records	Gregor Završnik	Geoarh
18 Jan, 2024	Long-term accessibility of Cancer Registry data using CITS eHealth2 guidelines	Anja Paulič, Jože Škofljanec, Sonja Tomšič, & Tina Žagar	The Slovenian National Archives & the Slovenian Cancer Registry
15 Feb, 2024	The eArchiving Conformance Seal	Sven Schlarb	AIT
21 Mar, 2024	The E-ARK Reference Architecture 2.0	István Alföldi	Poliphon
16 May, 2024	Keys to sustainable digital archiving	Pierre Fuzeau, Hugo Velluet and Jean Gauthier	Serda-Archimag

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eArchiving YouTube channel

Multi-lingual support

The Academic Curriculum

- Many organisations struggle to find staff with the appropriate skills to deliver eArchiving effectively.

- One often cited reason for this skills shortage is the lack of appropriately trained graduates leaving universities and other higher education establishments.

- The eArchiving Initiative is working to redress this imbalance with the eArchiving Academic Curriculum.

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The Academic Curriculum

- Based on iterative engagement with the eArchiving community.

- Initial input considerable (160 responses to our questionnaire).

- Interest from academic institutions.

- Six mandatory modules.

Due for delivery in July 2024

Synergy Building Activity

Jože Škofljanec (Archives of the Republic of Slovenia)

Synergy Building

DEP - Digital Europe programme's synergies activities

DEP.1

eSignature and eIDAS

DEP.2

eDelivery ✓

DEP.3

eHealth

DEP.4

Data Spaces

eSignature and eIDAS

DIP.1

!

Revision of eIDAS Regulation and its implementing acts

Long-term preservation of e-signed documents

1, 2, ...

CEN/TC 468	Technical Specification Development development; eArchiving coordination;
White Paper	Prepared and delivered to Policy officer;
Ref. Architecture	Development of new views based on eIDAS eArchiving trusted services;
TR-ESOR team	BSI's view on the implementation of eArchiving specifications;

www

Adopted version of the Regulation

https://eur-lex.europa.eu/eli/reg/2024/1183/oj

eDelivery

DIP.2

! Exploring synergies with eDelivery as it would make a good use case for the joint work

Promotion of the use cases, sharing and encouraging the use of interfaces and common components, providing training and support desk effort to foster the onboarding.

☺ The work programme had successfully achieved its objectives in terms of utilising specifications in live operations at DG TAXUD. ✔
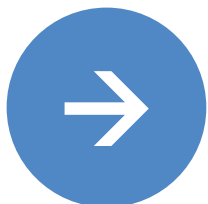
→ The DEP.2 team will face new challenges (e.g. Data Spaces)

eHealth

DIP.3

! Increasing awareness of the existence of eHealth specifications

Piloting the eHealth specifications.

1, 2, ... eHealth2 pilot at SI CR   Webinar (ARS, SI CR, JRC); CITS guidelines update;

LaFe Hospital & AIT   PROHUB expiriences → SIOP's Research Network (access);

WWW https://www.youtube.com/watch?v=36K__q3gX94&t=10s

https://www.linkedin.com/posts/jo%C5%BEe-%C5%A1kofljanec-5539a4115_poster-activity-71310355591869095936-G2a0?utm_source=share&utm_medium=member_desktop

40

Data Spaces

DIP.4

! Strengthening existing and develop new liaisons with non-archival domains
Establish synergies with Common European data spaces (Manufacturing, Green Deal, Mobility, Health, Finance, Energy, Agriculture, Public administrations, Skills, Media, Cultural heritage)

1, 2, ...
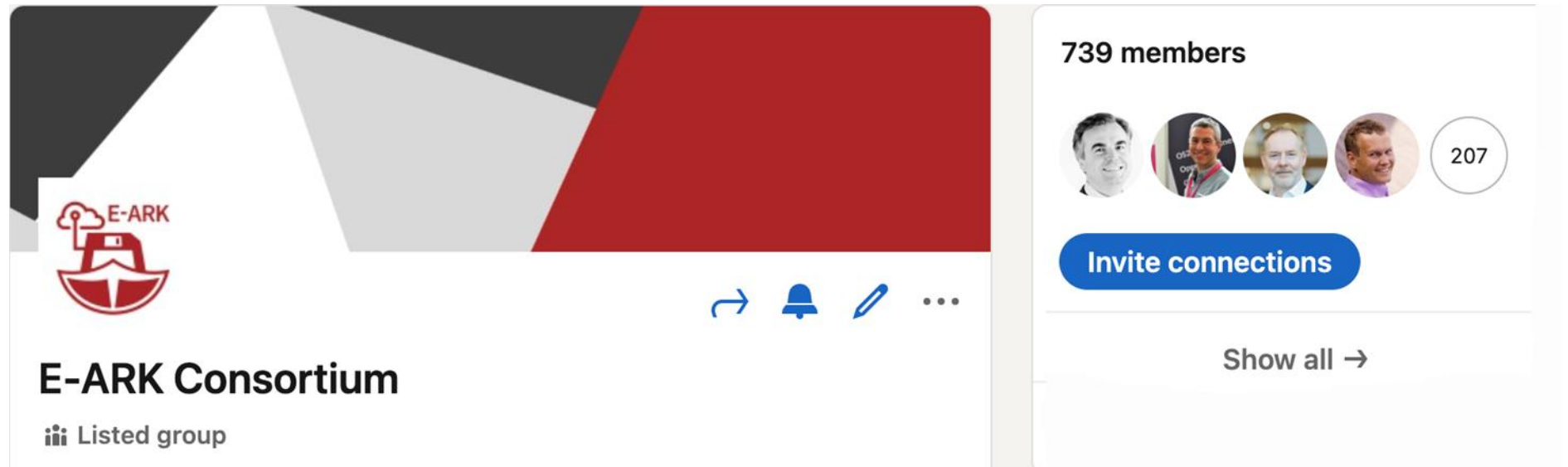
DS Support Cente	Blueprint, Conceptual Model, Standards and technologies landscape
Data Spaces	In focus: Cultural Heritage (Europeana), Media, Skills, Tourism and Green Deal
Technical partners	Gaia-x, SIMPL, VisionTrust/Prometheus-x

WWW https://dssc.eu/
https://dssc.eu/space/DDP/117211137/DSSC+Delivery+Plan+-+Summary+of+assets+publication
https://www.dataspaces-radar.org/radar/

Keep in touch

Social Networks

https://www.linkedin.com/groups/8343650/

Keep in touch

Social Networks

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This is the European Commission's eArchiving Initiative, managed by the E-ARK Consortium. #eArchiving

🔗 digital-strategy.ec.europa.eu/en/activities/...   📅 Joined February 2014

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Questions?