

The eArchiving Initiative in Europe

Janet Anderson, Highbury R&D, Ireland

KDRS conference, 7th June 2023



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eArchiving Introduction



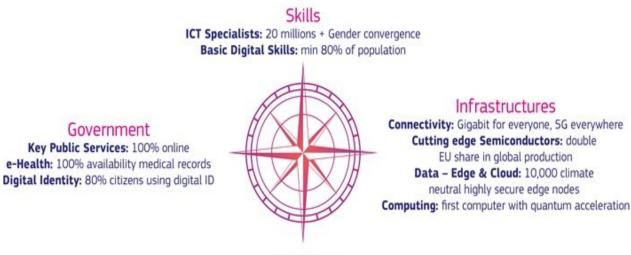
2030 DIGITAL DECADE

POLICY PROGRAMME: A PATH TO THE DIGITAL DECADE





The Digital Decade vision & targets (March 2021)



Business

Tech up-take: 75% of EU companies using Cloud/Al/Big Data Innovators: grow scale ups & finance to double EU Unicoms Late adopters: less than 10% companies with very low digital intensity • Secure and performant sustainable digital infrastructures

Skills

- Digital transformation of businesses
- Digitalisation of public services and areas of public interest





In line with the Communication, the "Path to the Digital Decade" includes:

- 1. Digital targets along four cardinal points measured at EU and national level with key performance indicators
- 2. Governance through monitoring (DESI) and cooperation mechanism;
- 3. The monitoring of digital principles in the inter-institutional declaration;
- 4. A mechanism to set-up **Multi-Country Projects** with Member States to facilitate pooling of investments





eArchiving in **DIGITAL**

- New **DIGITAL** Europe programme, data spaces:

new narratives, new website, own events

- Procurement for 2+2 years:

eArchiving initiative (from 2022 October)

- *Not only* for Archives: full *digital preservation*,

data sustainability from design

- Compatible and **interoperable** with EU standards: eSignature, eDelivery, eID...



eArchiving Generic Services projects 2021-23

EU Funding 75% co-financing. Min 3 entities from 3 MS. Results: 8 eligible offers, 4 taken, 838k total, 16 institutions from 10 MS + 1 EEA

Protecting Oral Histories using Blockchain

- Austria: AIT Austrian Institute of Technology GMBH
- Ireland: Highbury Research and Development Ltd
- Netherlands: Koninklijke Nederlandse Akademie van Wetenschappen
 Oneclick eArchiving
- Finland: Kaakkois-Suomen Ammattikorkeakoulu OY and Disec OY
- Estonia: Eesti Kunstiakadeemia
- Norway: PIQLAS

J-Ark - European Jewish Community Archive

- Spain: Pangeanic-B. I. Europa SLU
- Netherlands: Stichting Jewish Heritage Network and Stichting Europeana
- Portugal: KEEP Solutions LDA
- Poland: Ośrodek Brama Grodzka Teatr NN
- Lithuania: Jewish Community of Lithuania
 eArchiving of Engineering and Science
 Library
- Norway: PIQL AS
- Spain: Airbus Defence and Space, S.A.
- Slovakia: The Central Library of Slovak Academy of Sciences

eArchiving in **DIGITAL** – what the Commission aims at



Norberg

- To foster the availability of data for use
- Strengthen data-sharing mechanisms
- Improve technical, semantic, organizational and legal interoperability
- Simplify data exchange within private and public archives
- Complement other services of the Digital Europe Programme, providing them with means to preserve their data in a transparent, secure, sustainable manner for the future reuse
- Intereoperability of data will ensure reuse and sustainability in the long term

eArchiving in **DIGITAL** – tasks of the contractor



- Maritime Museur Norberg _ _ _
- To build on the results of the previous projects and the e-Ark specification
- Specifications maintenance and development
 - Validation and conformance testing
 - Training
 - Outreach
 - Support
 - Building synergies in DIGITAL
 - Onboarding
 - Support of Generic Services projects





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eArchiving Overview



E-ARK History



- 2014-2017: E-ARK project
- 2018-2021: CEF eArchiving Building Block
- 2022 eArchiving Initiative starts
- The E-ARK Consortium has expanded over the years to embrace partners from new sectors/domains

E-ARK Grant Agreement No 620998, https://eark-project.com/ E-ARK4ALL, Grant Agreement number: LC-00921441 CEF-TC-2018-15 eArchiving (2018-2019) E-ARK3, Grant Agreement No. LC-01390244 CEF-TC-2019-3 E-ARK3, (2019-2021) Current procurement: eArchiving Common Services Platform - CNECT/LUX/2021/OP/0077 no. LC-01905904



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



eArchiving Key information



E-ARK Consortium

15 organisations via DLM Forum:

- Archives of the Republic of Slovenia,
- Docbyte, Belgium
- ES Solutions, Sweden
- 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
 ¹³

European

Commission

eArchiving Key information

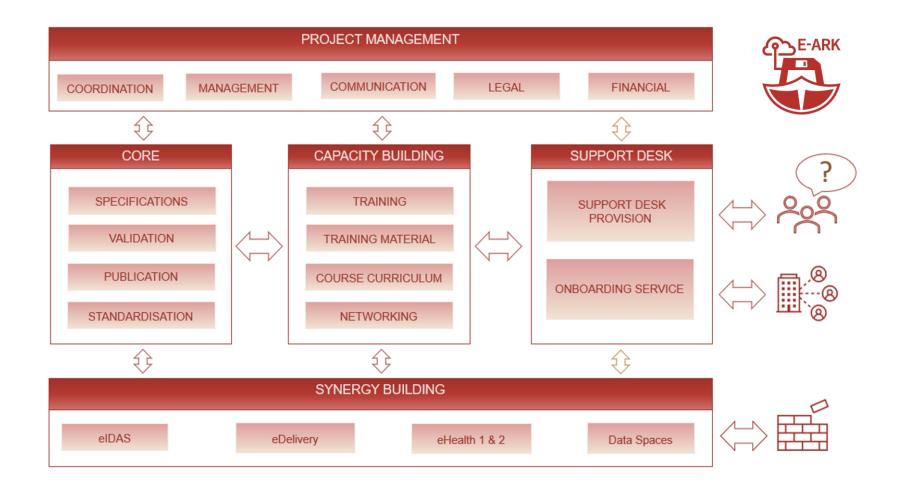
The eArchiving Initiative



- Start date 1st October 2022
- Two years + two possible annual extensions
- EUR 1,970,000 (two years)
- Digital Europe Programme
- DG CNECT and E-ARK Consortium
- Comprises five key Activities:
 - Project Management
 - CORE
 - Capacity Building
 - Support
 - Building Synergies



The eArchiving Initiative: the five Activities







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Coordination/Project Management



PM Activity Tasks

- PM.1: Coordination, project, risk and financial management (PM2)
- PM.2: Communication
- PM.3: Website
- PM.4: Legal Compliance





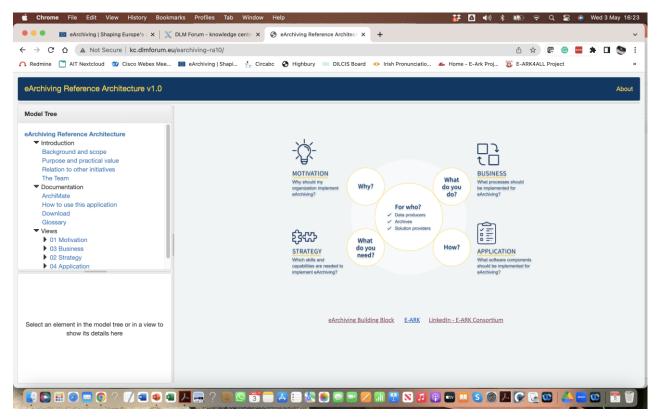


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Core Activity



CORE Key tasks

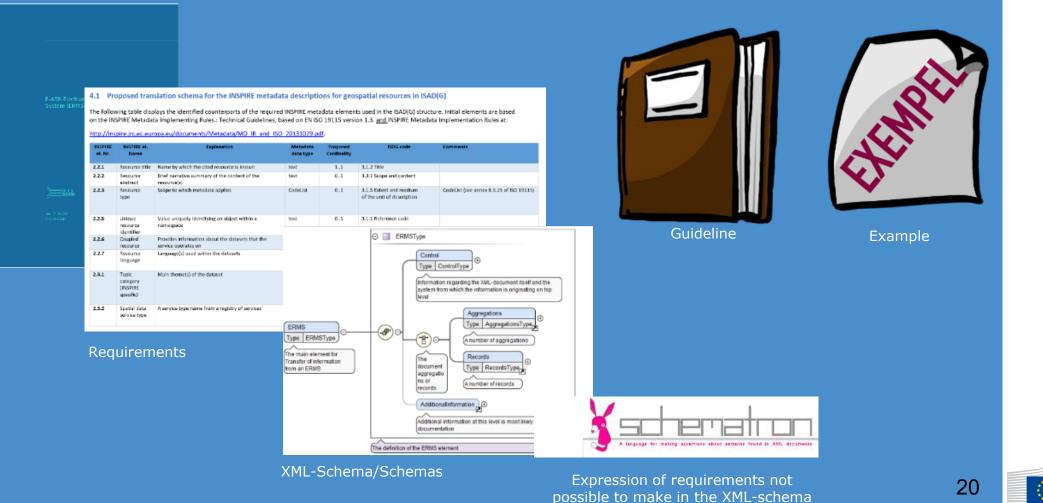


Task CORE.1 Specifications Maintenance and Knowledge Base

- Sub-Task CORE.1.1
 Specifications
- Sub-Task CORE.1.2 Knowledge Base (includes Reference Architecture and Maturity Model)
- Sub Task CORE.1.3 Release Management



Specification documents



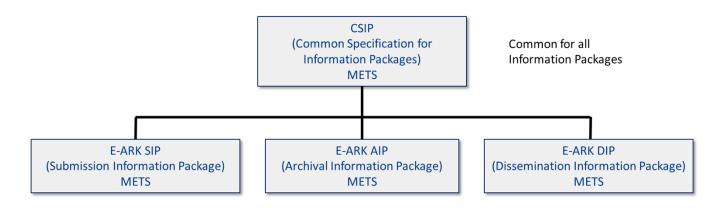
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Specifications

https://github.com/DILCISBoard

https://dilcis.eu/

https://dilcis.eu/reviews/current-reviews



Content Information Type Specification (CITS) – Archival Information

Content Information Type Specification (CITS) – Preservation Metadata

Content Information Type Specification (CITS) – eHealth 1 (Patient Journals)

Content Information Type Specification (CITS) – eHealth 2 (Cancer registry information)

Content Information Type Specification (CITS) – GIS

Content Information Type Specification (CITS) – Digital Geospatial Data Records

Content Information Type Specification (CITS) - Relational Databases (SIARD)

Content Information Type Specification (CITS) – ERMS



CORE Key tasks

Task CORE.2 Creation of new eArchiving specifications: Engineering1 3D CITS

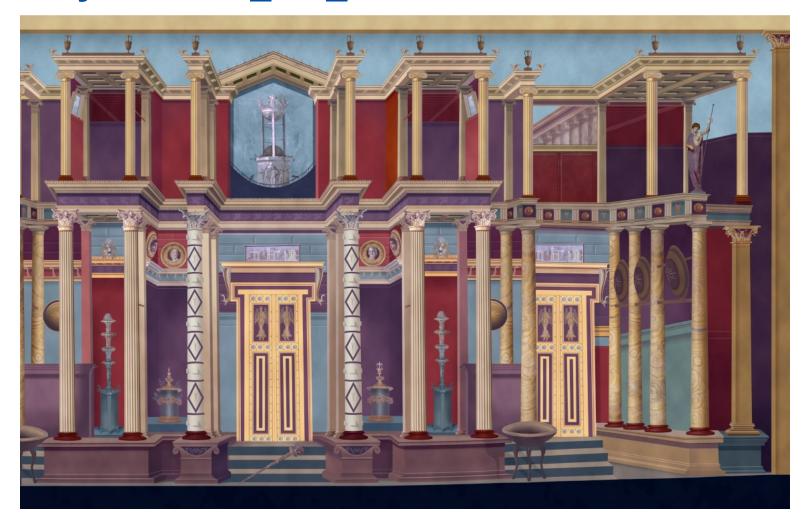
(cf 3D Content Information Type Specification (CITS), liaising with Digital Cultural Heritage Data Space, 4CH)



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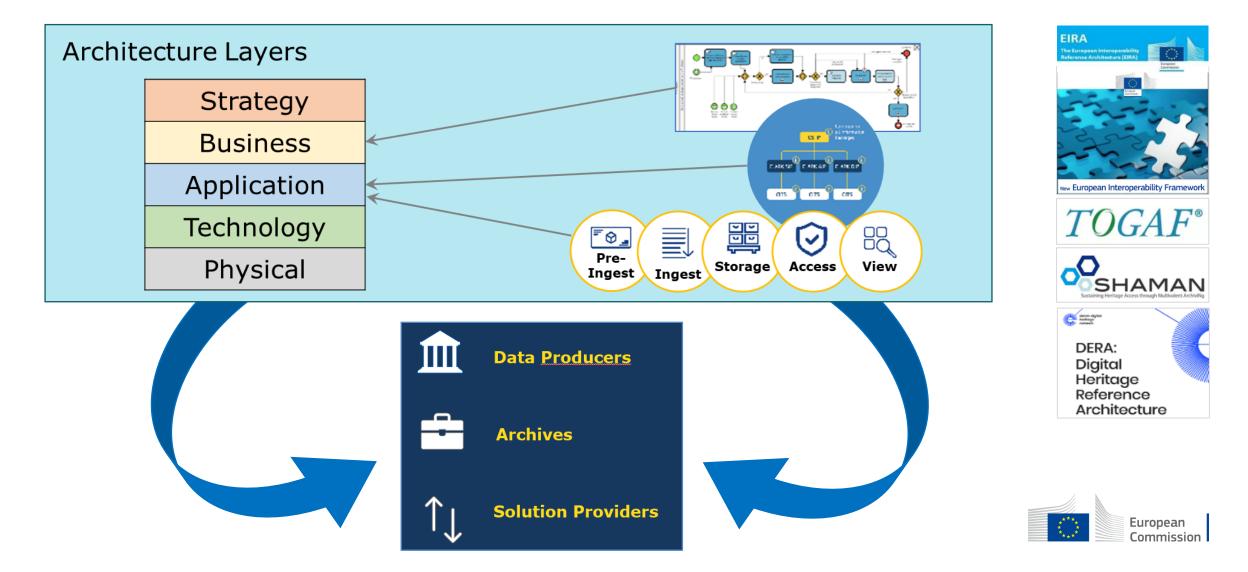


Preserving 3D Objects. 3D model of the Villa of Oplontis Martin Blazeby, POCOS_Vol_1.PDF



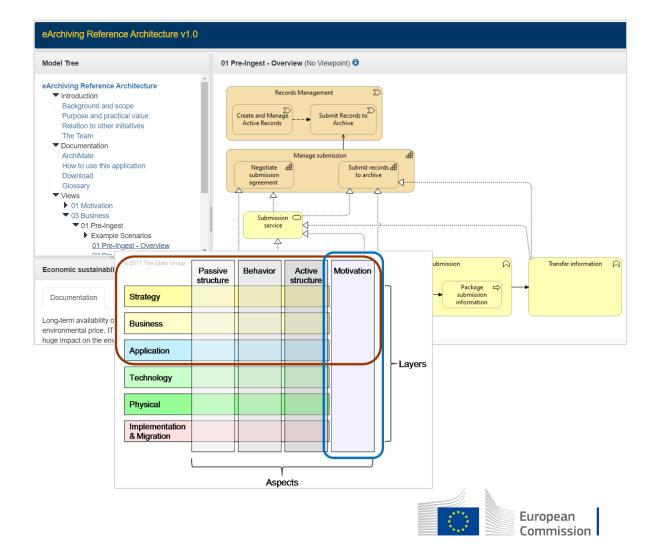


eArchiving Reference Architecture



eArchiving Reference Architecture v1.0

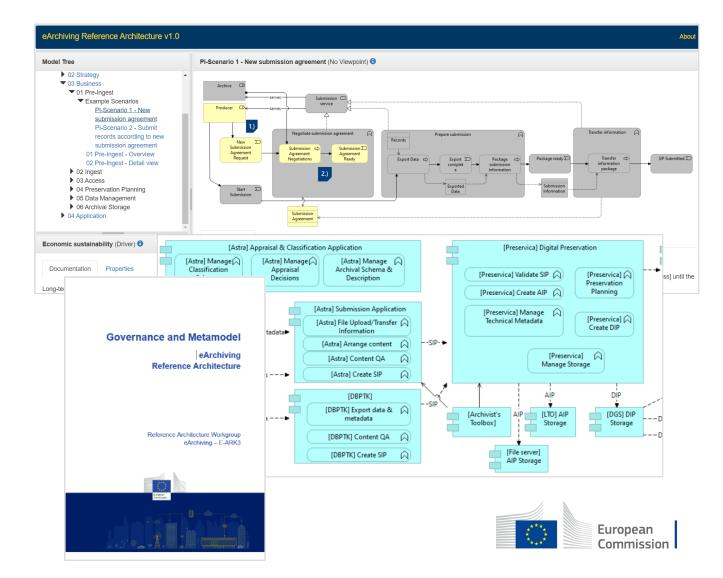
- Version 1.0 published in 2021
- Online version available at the E-ARK Knowledge Centre
- ArchiMate model can be downloaded from the online version
- V1.0 is focusing on the motivation aspect, strategy and business layers



eArchiving Reference Architecture v1.0

Extended with:

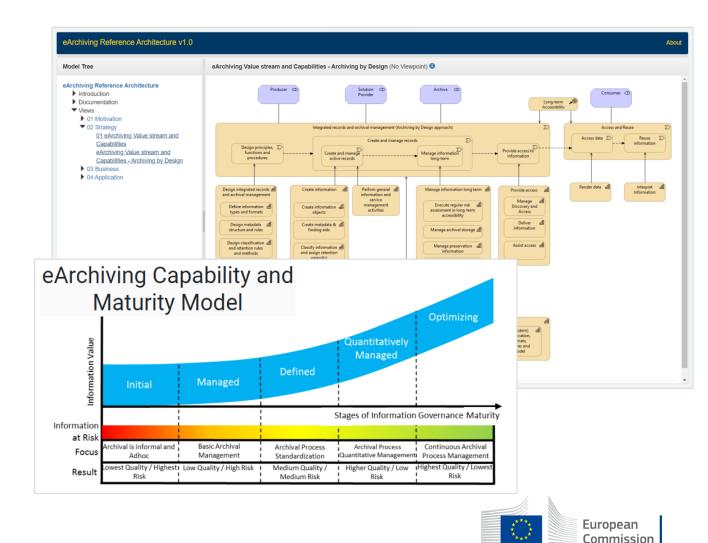
- Principles document
- Business scenarios
- Real world application layer
- Introduction, documentation, and glossary sections



Reference Architecture – Work in progress

Parallel activities:

- Aligning with the new version of the eArchiving Maturity Model
- Aligning with the Archiving by Design approach



Reference Architecture – Archiving by Design

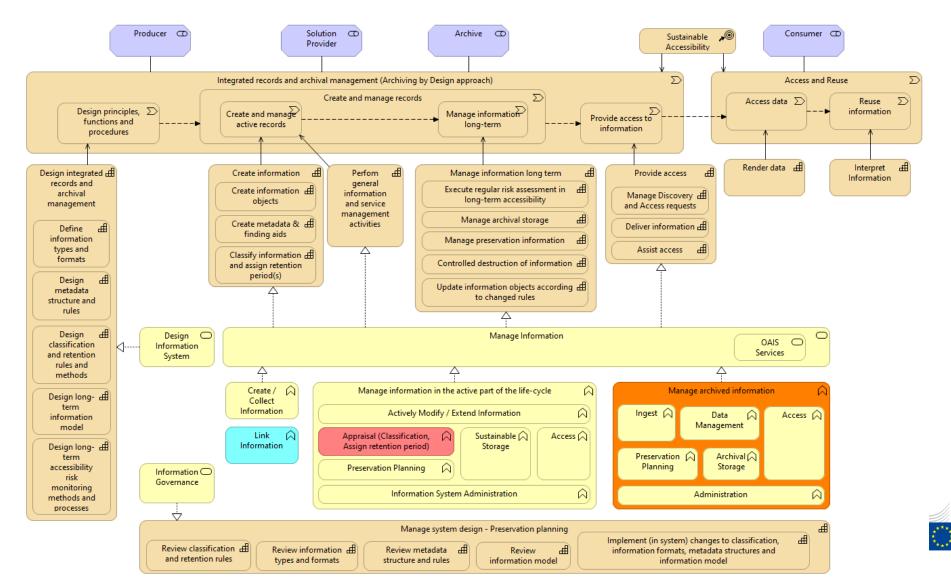
- EAG Archiving by Design working group
- DUTO model by the
 Dutch National Archives

Archiving by Design

This document was prepared for the The European Archives Group (EAG). It provides a definition of Archiving by Design. It also recommends that the concept of sustainable accessibility to information is the premise for a pan-european approach for the records management community and archives to address the challenges of digital tran Creating public value by Sustain

Creating public value by Sustainable Accessibility The open public sector **Public Value Findable** Available Open and transparant **Products and services** Sustainably Accessible **Public Information** Interpretable Readable Safe, responsa Efficient and effective and traceable File not supported Legitimacy Compliand he delivering public sector The reliable public sector **Future proof** Reliable European Commission

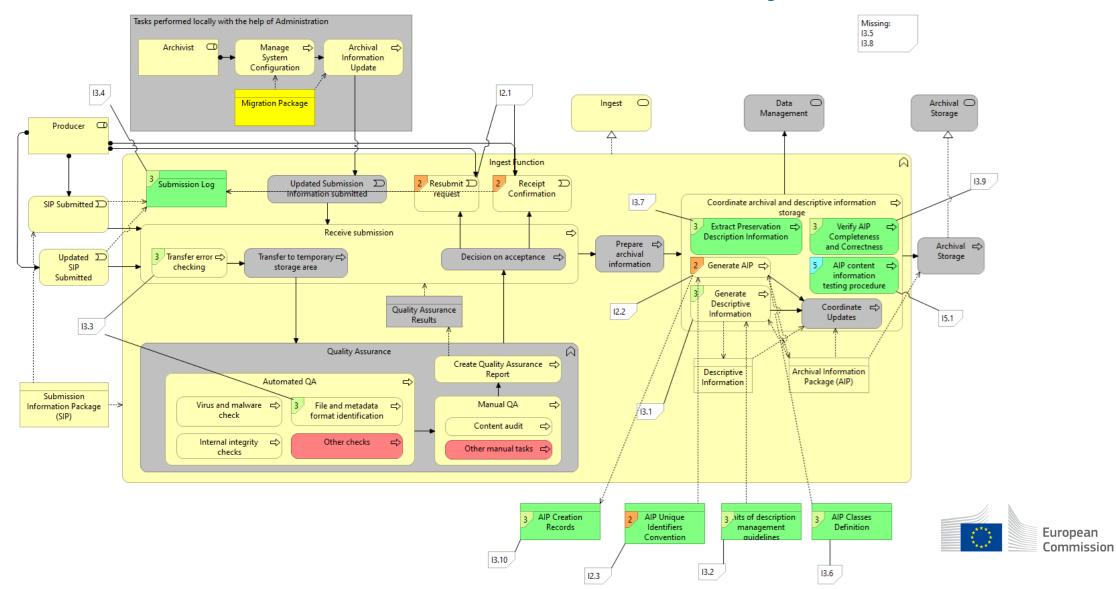
Reference Architecture – Archiving by Design



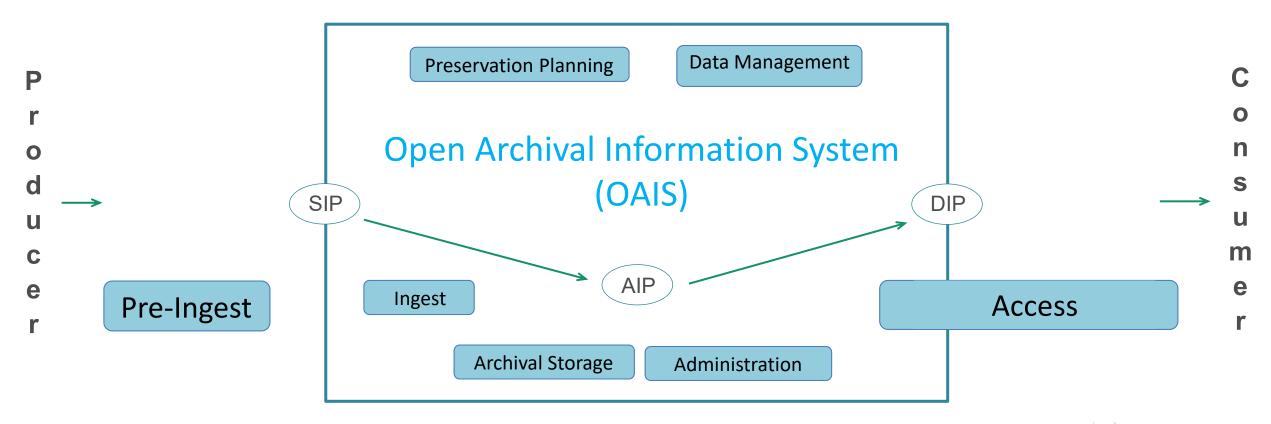
European

Commission

Reference Architecture – Maturity Model

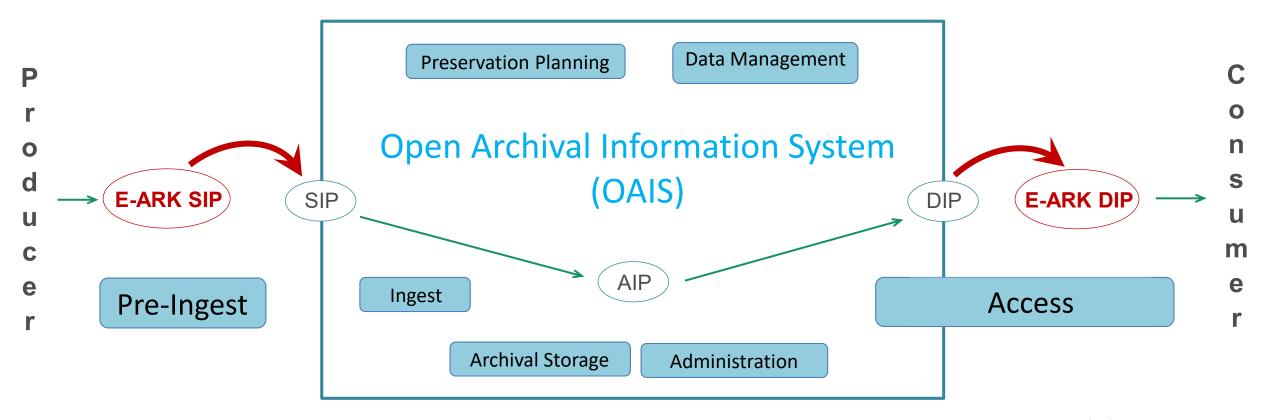


Creating E-ARK specification crosswalks





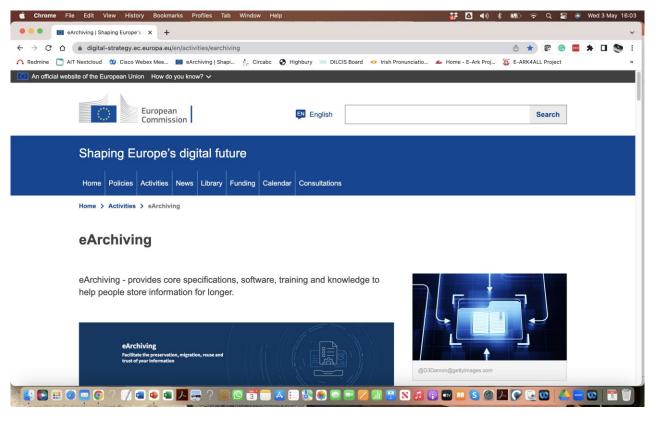
Creating E-ARK specification crosswalks





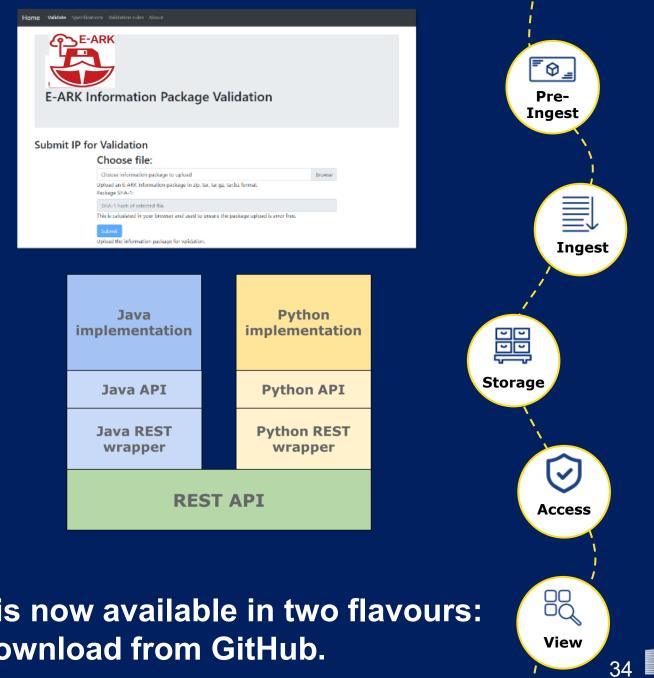
CORE Key tasks

- Task CORE.3 Validation Testing Tools and Software libraries, related to the eArchiving specifications
- Task CORE.4 Online publication. Covers all the relevant information about the specifications and the other services, on the dedicated section on the Digital strategy website via both Drupal and the CNECT-specific CMS, the "newsroom"
- Task CORE.5 Standardisation and interoperability Engagement

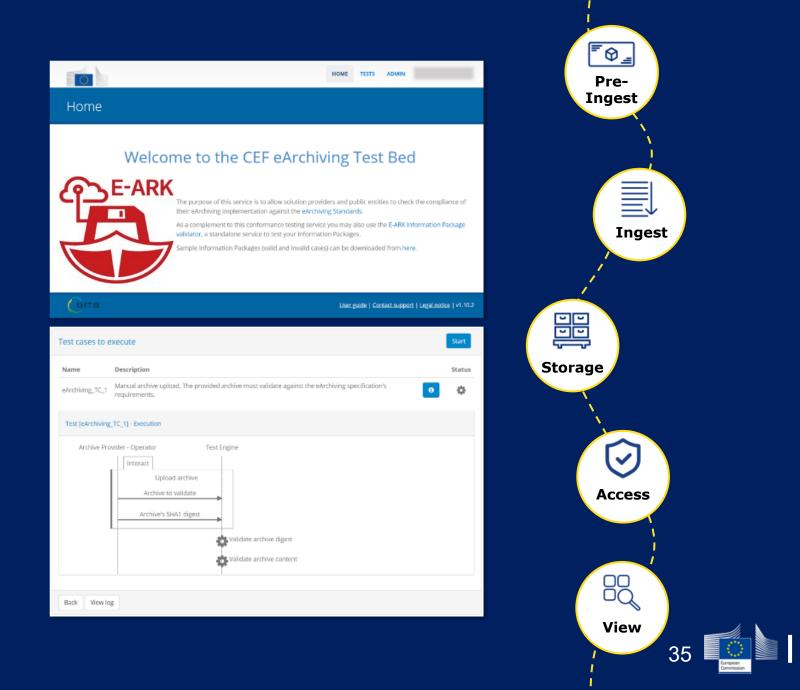




How do you know if an Information Package conforms to E-ARK specifications?



E-ARK specification validation is now available in two flavours: try it on the web or download from GitHub. How do you know if a piece of software is conformant with the eArchiving Building Block?





Capacity Building Activity – Training



CB Key tasks

Task CB.1 Multilingual training

Training material will be made available in various languages to support the main areas of the eArchiving CSP. The consortium will deliver this through both digital and physical channels. Training will take the form of:

- Online webinars
- Face-to-face training workshops.

Training Webinar Series

| Month | Date | Title | Speaker | Organisation |
|-----------|------|--|----------------------------------|----------------|
| April | 27 | Using eArchiving standards for system-independent storage of authorisation metadata | Sven Schlarb | AIT |
| May | 18 | Understanding database preservation | Luís Faria | KEEP Solutions |
| June | 15 | Large object (LOB, BLOB) handling capabilities of SIARD with the Database Preservation Toolkit | István Alföldi | Poliphon |
| July | 20 | Creating E-ARK conformant Archivematica preservation workflows | Stephen Mackey | Penwern |
| | | Summer break | | |
| September | 21 | Using open-source tools for eArchiving | Anssi Jäaskeläinen | ХАМК |
| October | 19 | Using ESSArch for eArchiving | Björn Skog/ Andreas Segerberg | ES Solutions |
| November | 16 | Using eArchiving for FAIR access to long-term geospatial records in the digital economy | Gregor Završnik | Geoarh |

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CB Key tasks

Task CB.2 'Train-the-trainer'

The creation of additional specialist trainers in the fundamentals of eArchiving is critical for capacity building. The first tranche of trainees will derive primarily from the consortium membership. The task will develop a series of specialist modules on the fundamentals of eArchiving. The training will be delivered in both face-to-face contexts at industry events and online.

CB Key tasks

Task CB.3 Standalone training material provision

The task will provide how-to guides integrated into the E-ARK reference implementation (*earkweb*), which are also available separately for download and accompanied by video resources demonstrating the basic eArchiving processes. CB.1 and CB.5 to ensure that a holistic training environment is developed.

CB Key tasks

Task CB.4 CEF Call GS projects training services integration Task

Four Generic Services (GS) projects were awarded in 2021. TCB.4 will provide a repository for or link to the training materials developed by the Generic Services projects after their cessation. We are liaising with J-ARK; PROHUB; OneClick; eArchiving of Engineering and Science Library.

CB Key tasks

Task CB.5 Create eArchiving course curriculum

To complement Tasks CB.1–4 which focus on industry training – the eArchiving course curriculum is aimed at the higher education community. The curriculum will be developed in a series of logical steps:

- Scoping exercise
- User needs analysis
- Development.



Europa Vetus / Nicolai Sanson, ...; Gulielmi Sanson N. Filii por Sanson, Nicolas (1600-1667). Cartographe - 1668 - National Library of France, France - No Copyright - Other Known Legal Restrictions. https://www.europeana.eu/item/9200517/ark 12148 btv1b5973170h

Capacity Building

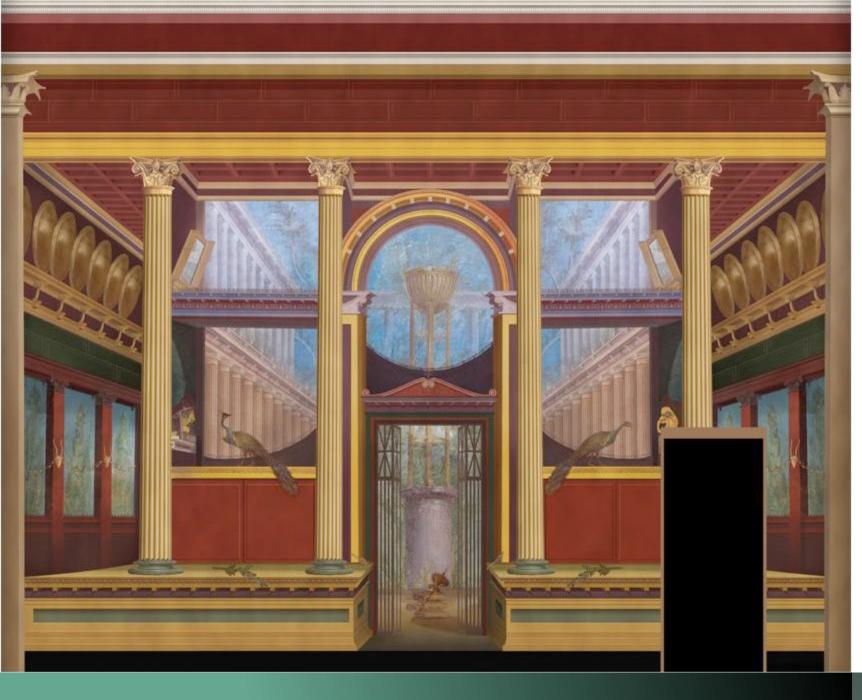


Capacity Building KEY TASKS

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





KEY TASKS

· GENERAL

Communication Plan

• Task CB.6

First public event "e Archiving 2022-2023", 25th and 26th April 2023

"eArchiving open event" Salamanca, October 2023.

• Task CB.7

Geoconference Curriculum, DCH, 3D CITS etc.

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

Provisional List of Events

| Intended date | Place | Name | Mode | |
|----------------|-------------------|--|--------------------------------|--|
| April 2023 | N/A | eArchiving 2023-2024: | Virtual/Open public event | |
| May 2023 | Ljubljana | Geoconference | Face-to-Face/ Hybrid mode- | |
| | | | Subdomain open public event | |
| Oct 2023 | Salamanca | eArchiving: digital preservation and data | Face-to-Face/ Hybrid mode Open | |
| | | sustainability in Europe | public event | |
| Nov 2023 | N/A | Presentation of eArchiving Conformity seal | Virtual- Open public event | |
| Feb 2024 | ТВС | Preservation of eHealth data | Face-to-Face/ Hybrid | |
| | | | mode/Subdomain public event | |
| Mar 2024 | N/A | Presentation of new CITS 3D | Virtual/Open public events | |
| Apr 2024 | ТВС | Cultural Heritage preservation | Face-to-Face/ Hybrid | |
| | | | mode/Subdomain public event | |
| Jun 2024 | ТВС | Database preservation | Face-to-Face/ Hybrid | |
| | | | mode/Subdomain public event | |
| September 2024 | Open public event | Presentation of eArchiving Curriculum | Virtual | |



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Support Activity

support@e-ark-foundation.eu



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





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Synergy Building Activity



Synergy Building Tasks

DEP – Developing synergies with Digital Europe Programme's activities:

DEP.1 eSignature and eIDAS



eDelivery

DEP.3 eHealth DEP.4 Data Spaces



eSignature and eIDAS DEP.1



Revision of eIDAS Regulation and its implementing acts. Long-term preservation of e-signed documents.



Actively following up the eIDAS Regulation updating process.

eArchiving specifications: foundation for the electronic archiving trusted service. Reforging links with eSignature Building Block.

Dedicated and strategic collaboration between the E-ARK and Service interministérial des Archives de France (SIAF), the VITAM team within SIAF, and the French National Archives to work together, specification to specification, to draw closer together these two major initiatives previously working in parallel.



eDelivery DEP.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.



Documentation of the Domibus eArchiving interface and DG TAXUD use case. Publication and dissemination of the DG TAXUD use case on a more visible and far-reaching portal.



eHealth DEP.3



Increasing awareness of the existence of eHealth specifications. Piloting the eHealth specifications.



Identification of the possible pilot partner for the specification implementation. Identification of the key organisations, events, communication channels in the domain, which will be used for raising the awareness.



Data Spaces

DEP.4



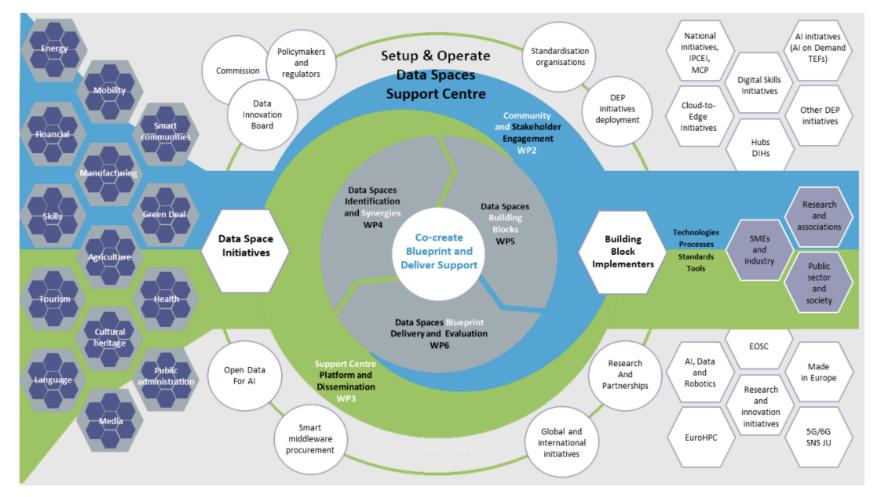
Strengthening existing and develop new liaisons with non-archival domains. Establish synergies with Common European Data Spaces (Cultural Heritage, Skills, Tourism, Media, Manufacturing, Green Deal, Mobility, Health, Finance, Energy, Agriculture, Public administrations).



Using Geoconference and other eArchiving events for exploring potential synergies. Re-use of existing BB tools in eArchiving (e.g. eTranslation). Participating in eInvoicing Technical Advisory group. Patient Summary (Directive 2011/24/EU) – eHealth1.



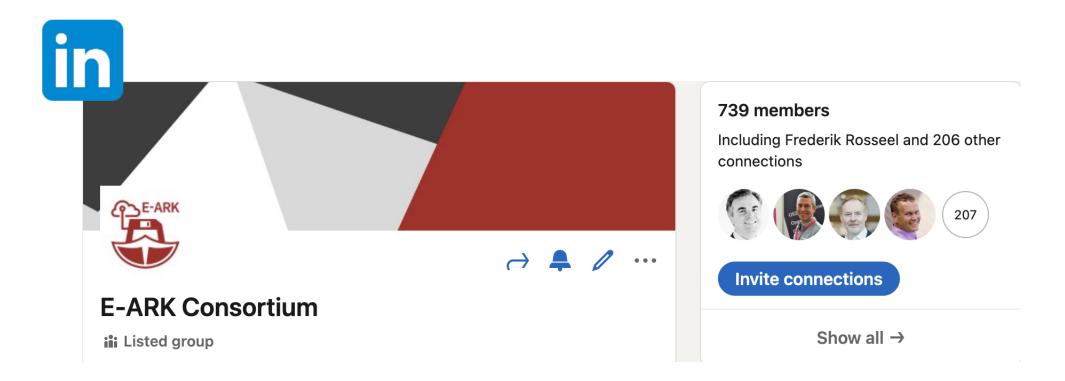
European Commission Data Spaces https://dssc.eu/





Keep in touch

Social Networks



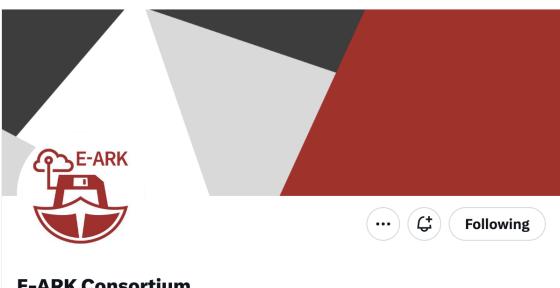
https://www.linkedin.com/groups/8343650/



Keep in touch @EU_eArchiving

Social Networks





E-ARK Consortium

@EU_eArchiving

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

119 Following **760** Followers

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Questions?



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