eArchiving in Portugal Workshop

Janet Anderson, The eArchiving Initiative

Tuesday 25th February 2025

IST, Lisbon

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eArchiving Overview

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11 years of eArchiving

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eArchiving mission (10 years)

- The eArchiving Initiative mission is to provide **non-hosted** archival services to keep digital records authentic and usable based on current **best practices**.
- The services address the **three main endeavours** of an archive: acquiring, preserving and enabling re-use of information.
- Archival processes at a pan-European level are **harmonised**, supported by guidelines and recommended practices that will cater for a **range of data** from different types of source including record management systems and databases.

eArchiving mission

- The potential benefits for public agencies, citizens and businesses are demonstrated by providing easy and efficient access to the archived records.
- The E-ARK approach is public-facing, **open source**, **robust**, replicable and **scalable**, and addresses a wide range of organisations, taking full account of legal constraints.

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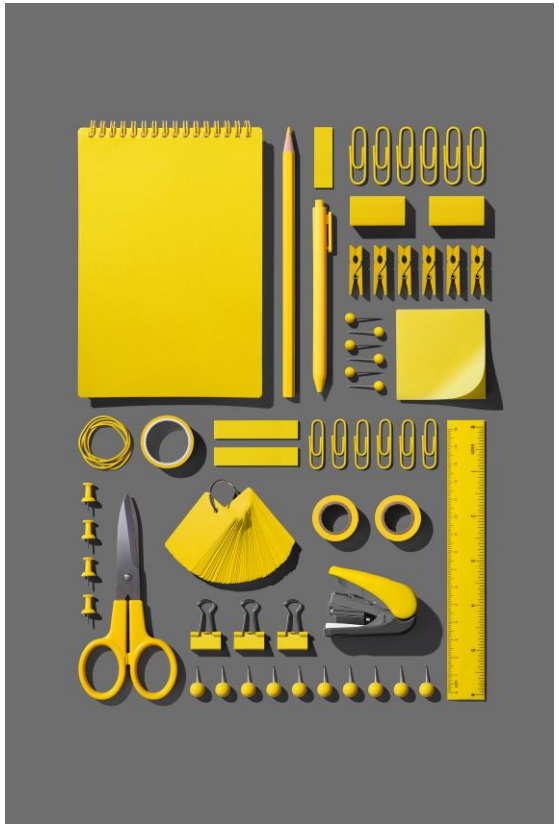
eArchiving: specifications and tools

- We have developed practical interoperability **specifications** for data preparation, ingest, preservation and access

- We have developed a set of Open-Source, interoperable **tools** which implement the specifications and are reusable across borders



E-ARK: core benefits

Extended possibilities for collaboration in tool development

Shared development = less cost for each individual partner

Digital preservation is affordable for everyone!

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The eArchiving Initiative in a nutshell

Service Contract: eArchiving Common Services Platform - CNECT/LUX/2021/OP/0077 NUMBER – LC-01905904

- **1 Research Institution: Austrian Institute of Technology (AIT)**
- **3 SME:** Keep Solutions (Portugal), Highbury (Ireland), Gabinete (Spain)
- **1 Membership organisation:** DLM Forum (Estonia)

AIT Subcontractors

AAFB, Easy Lean, everteam, TrustScape, KMD, Prisma.

DLM Project Members

National Archives of Estonia, Finland, Norway, Slovenia, Swiss Federal Archives, **OPF**, Digital Lifecycle Management; Geoarh, Poliphon, XAMK, INESC-ID, SERDA, Sydarkivera, Penwern, Digital Lifecycle Management.

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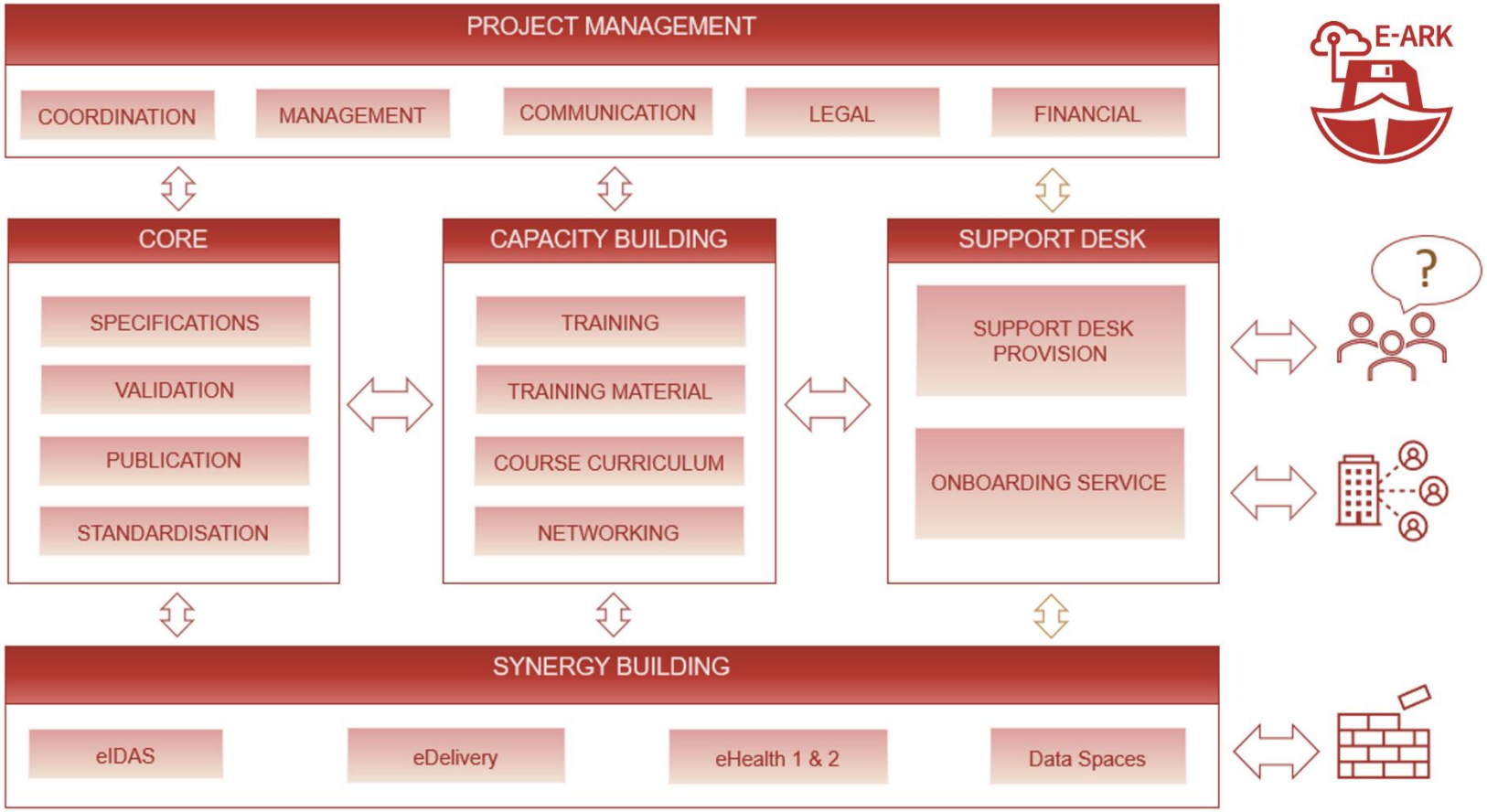
The eArchiving Initiative: the five Activities



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eArchiving Services

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The eArchiving website and services

https://digital-strategy.ec.europa.eu/en/activities/earchiving

- Technical services
- Validation and Conformance services
- Knowledge Centre
- Training
- Support Desk
- Get involved

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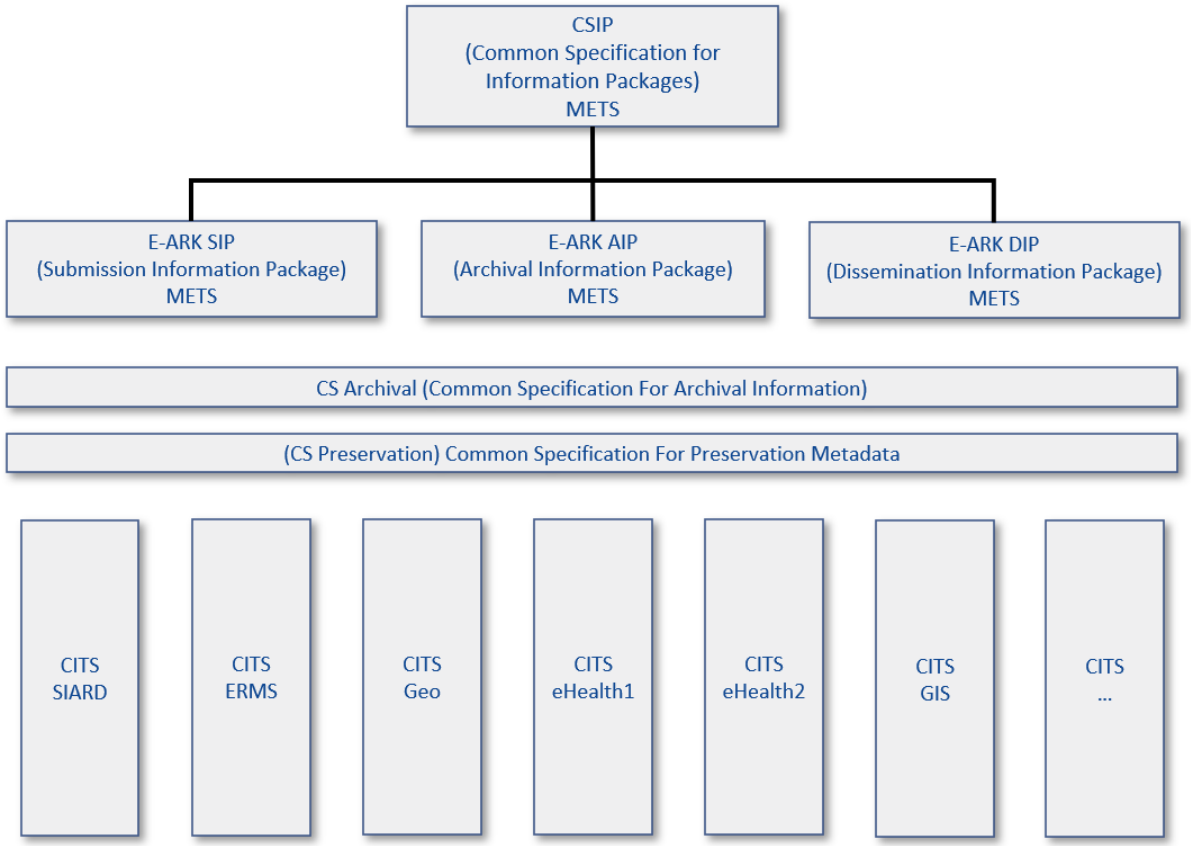
Technical Services

https://digital-strategy.ec.europa.eu/en/activities/earchiving-specifications

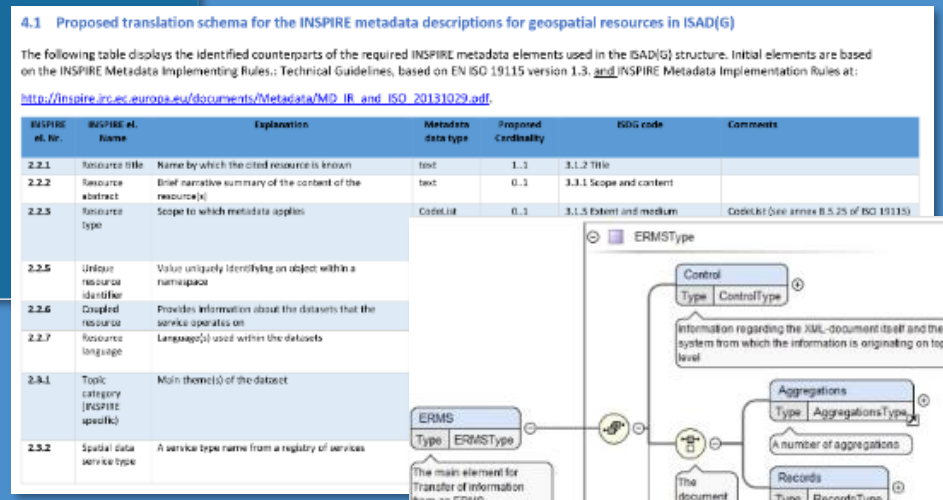
Specifications

https://github.com/DILCISBoard https://dilcis.eu/ https://dilcis.eu/reviews/current-reviews



Specification documents

Specification



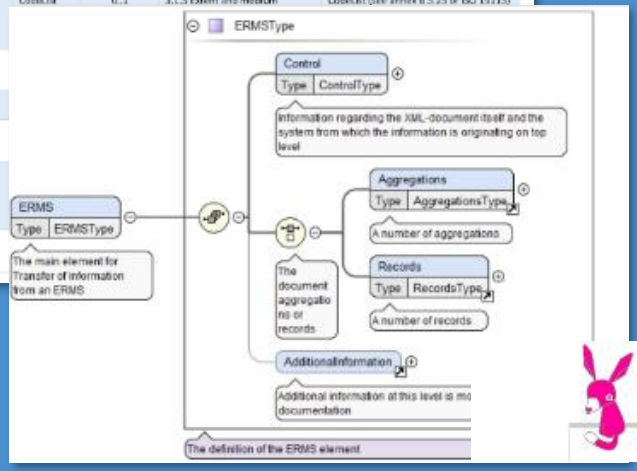
4.1 Proposed translation schema for the INSPIRE metadata descriptions for geospatial resources in ISAD(G)

The following table displays the identified counterparts of the required INSPIRE metadata elements used in the ISAD(G) structure. Initial elements are based on the INSPIRE Metadata Implementing Rules.: Technical Guidelines, based on EN ISO 19115 version 1.3. and INSPIRE Metadata Implementation Rules at:

http://inspire.jrc.ec.europa.eu/documents/Metadata/MD_IR_and_ISO_20131029.pdf.

INSPIRE el. Nr.	INSPIRE el. Name	Explanation	Metadata data type	Proposed Cardinality	ISDG code	Comments
2.2.1	Resource title	Name by which the cited resource is known	text	1..1	3.1.2 Title	
2.2.2	Resource abstract	Brief narrative summary of the content of the resource(s)	text	0..1	3.1.1 Scope and content	
2.2.3	Resource type	Scope to which metadata applies	CodeList	0..1	3.1.5 Extent and medium	CodeList (see annex B.5.25 of ISO 19115)
2.2.5	Unique resource identifier	Value uniquely identifying an object within a namespace				
2.2.6	Coupled resource	Provides information about the datasets that the service operates on				
2.2.7	Resource language	Language(s) used within the datasets				
2.3.1	Topic category (INSPIRE specific)	Main theme(s) of the dataset				
2.3.2	Spatial data service type	A service type name from a registry of services				

Requirements



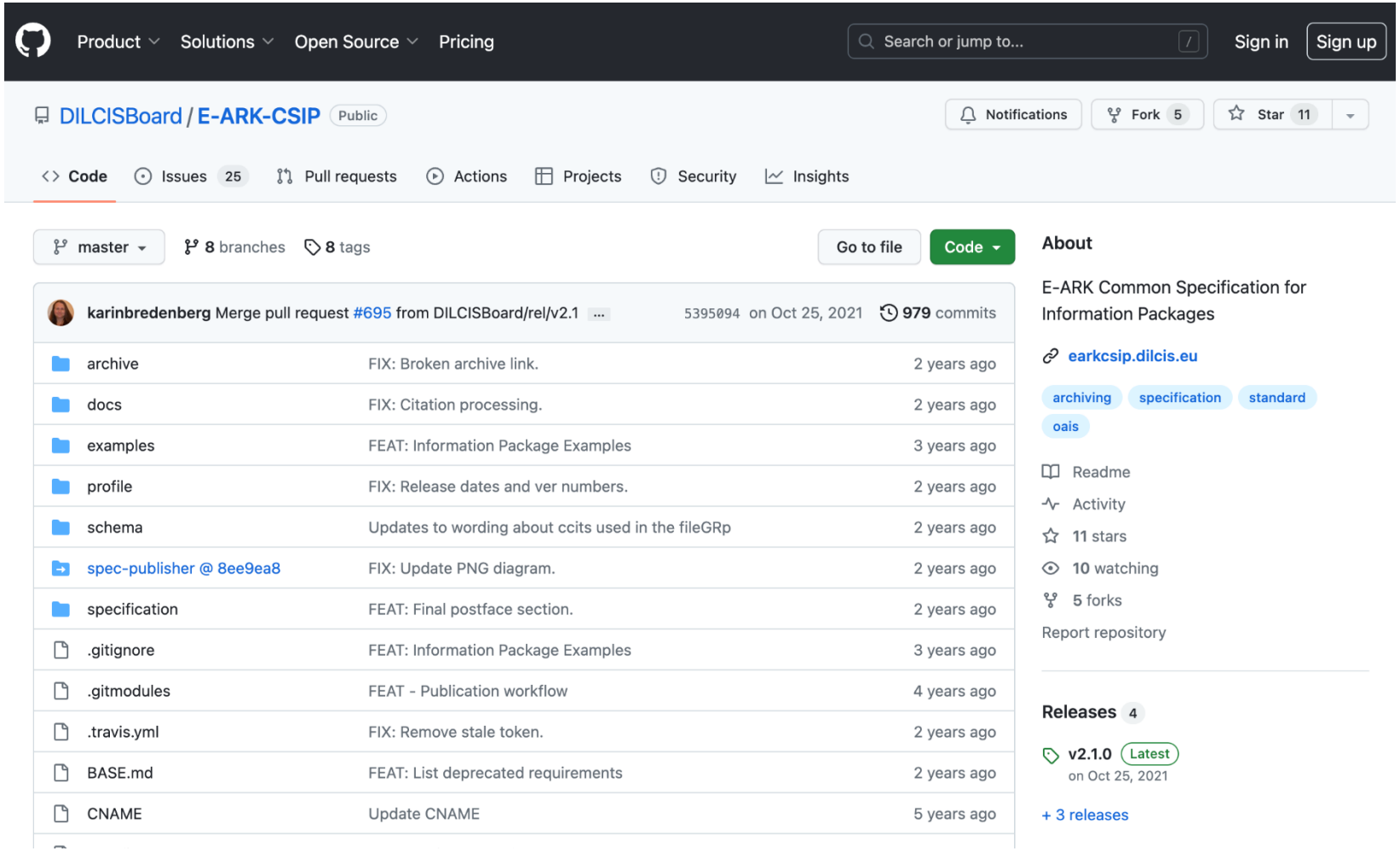
XML-Schema/Schemas

Expression of requirements not possible to make in the XML-schema

Guideline

Example

Github



https://github.com/DILCISBoard/E-ARK-CSIP

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

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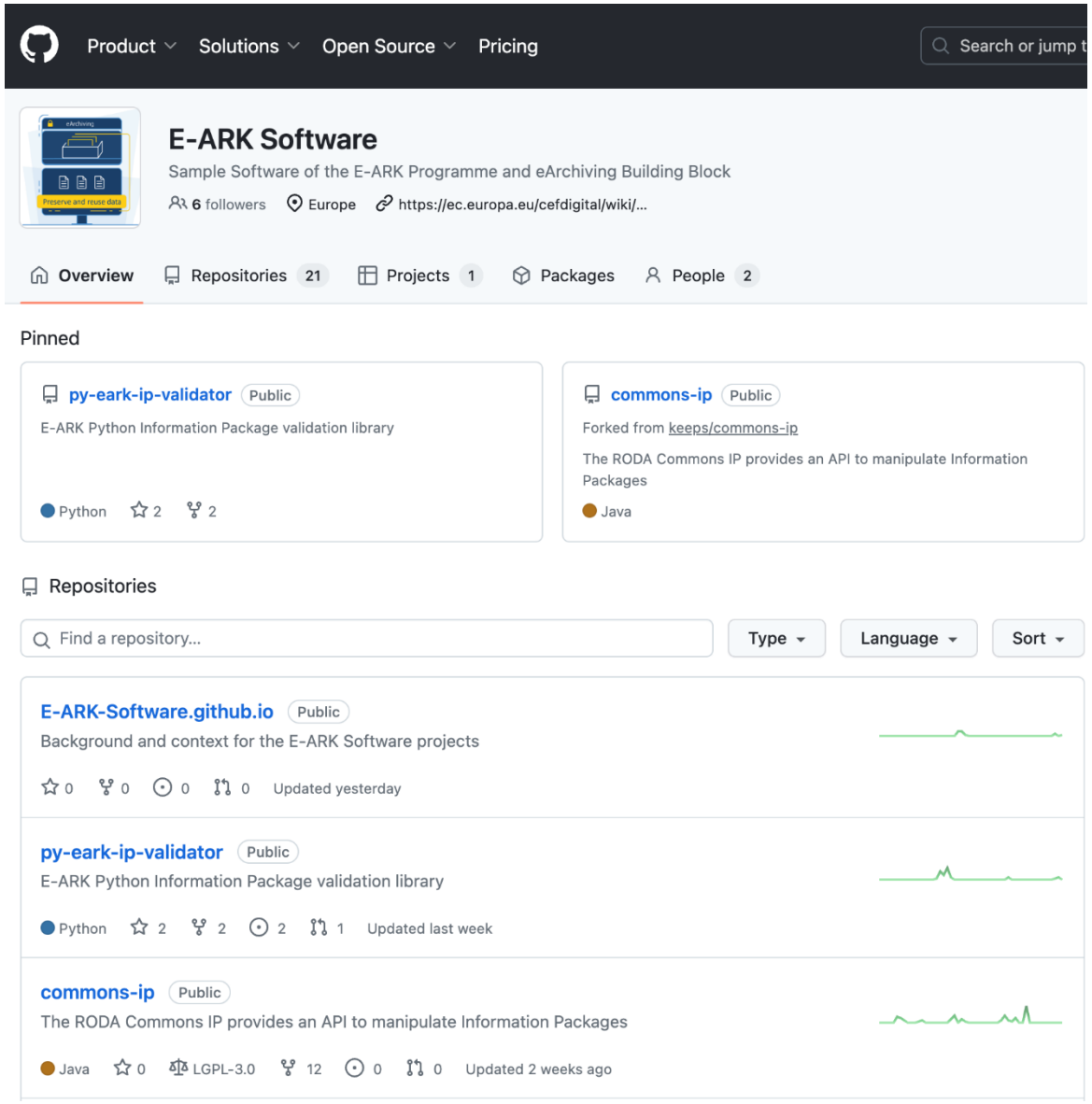
E-ARK Software (not a hosting Service)



https://github.com/E-ARK-Software

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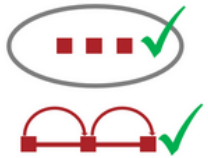
Validation and Conformance Services

https://digital-strategy.ec.europa.eu/en/activities/earchiving-conformance-seal

Validation and Conformance

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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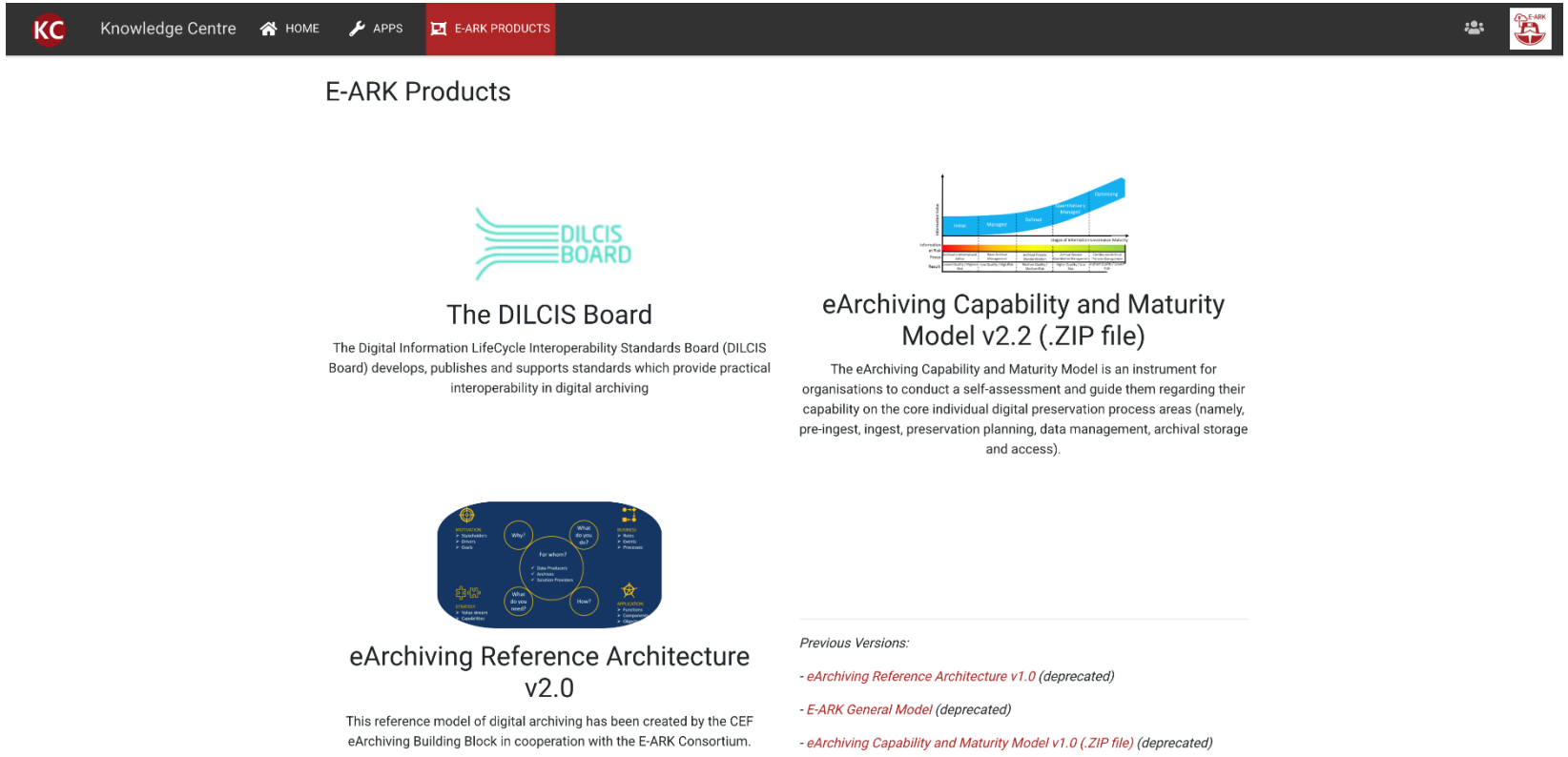
Knowledge Centre Services

https://digital-strategy.ec.europa.eu/en/activities/knowledge-centre

E-ARK Knowledge Centre



http://kc.dlmforum.eu/eark-products

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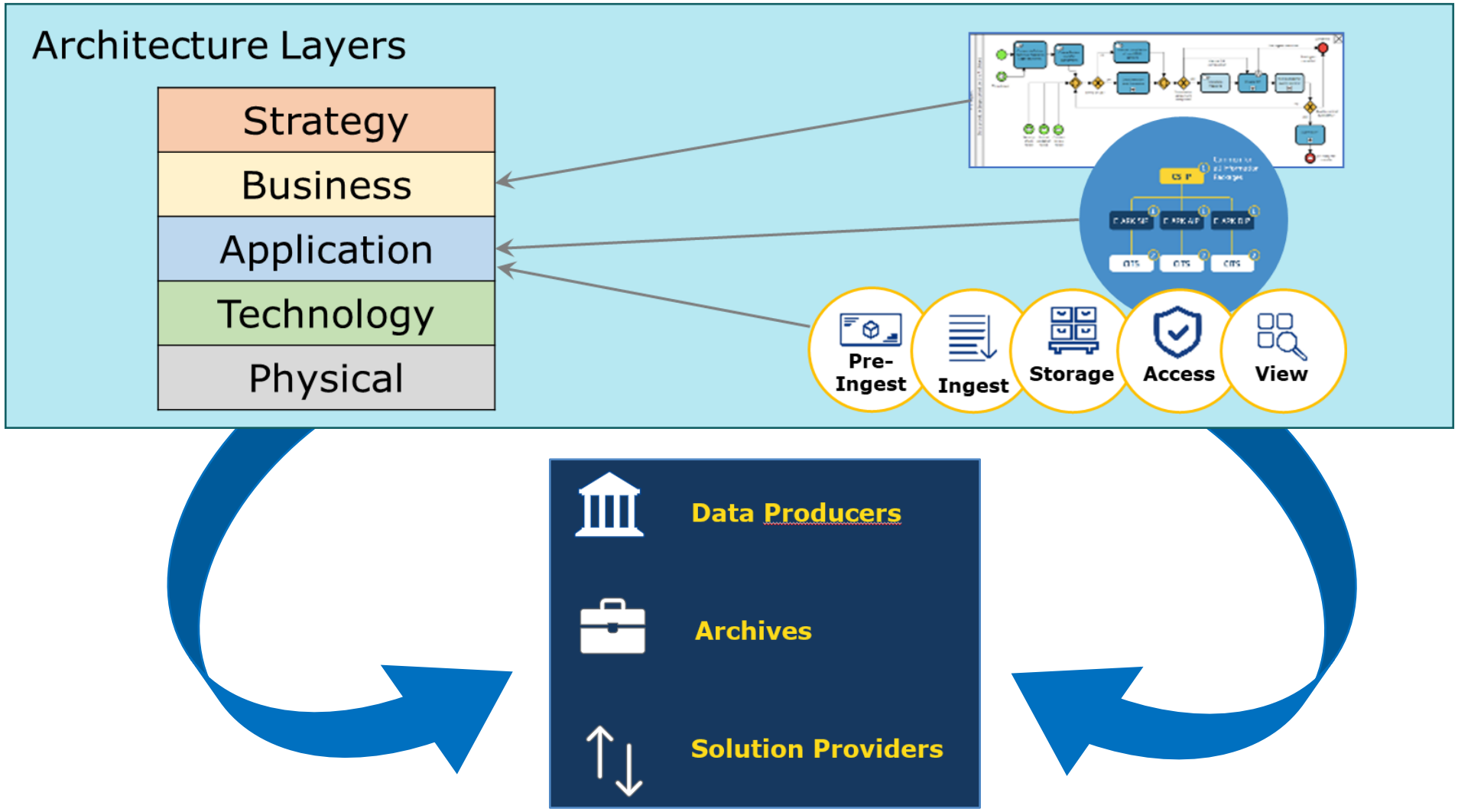
eArchiving Reference Architecture



TOGAF®

SHAMAN
Sustaining Heritage Access through Multivalent ArchiviNg

DERA:
Digital
Heritage
Reference
Architecture

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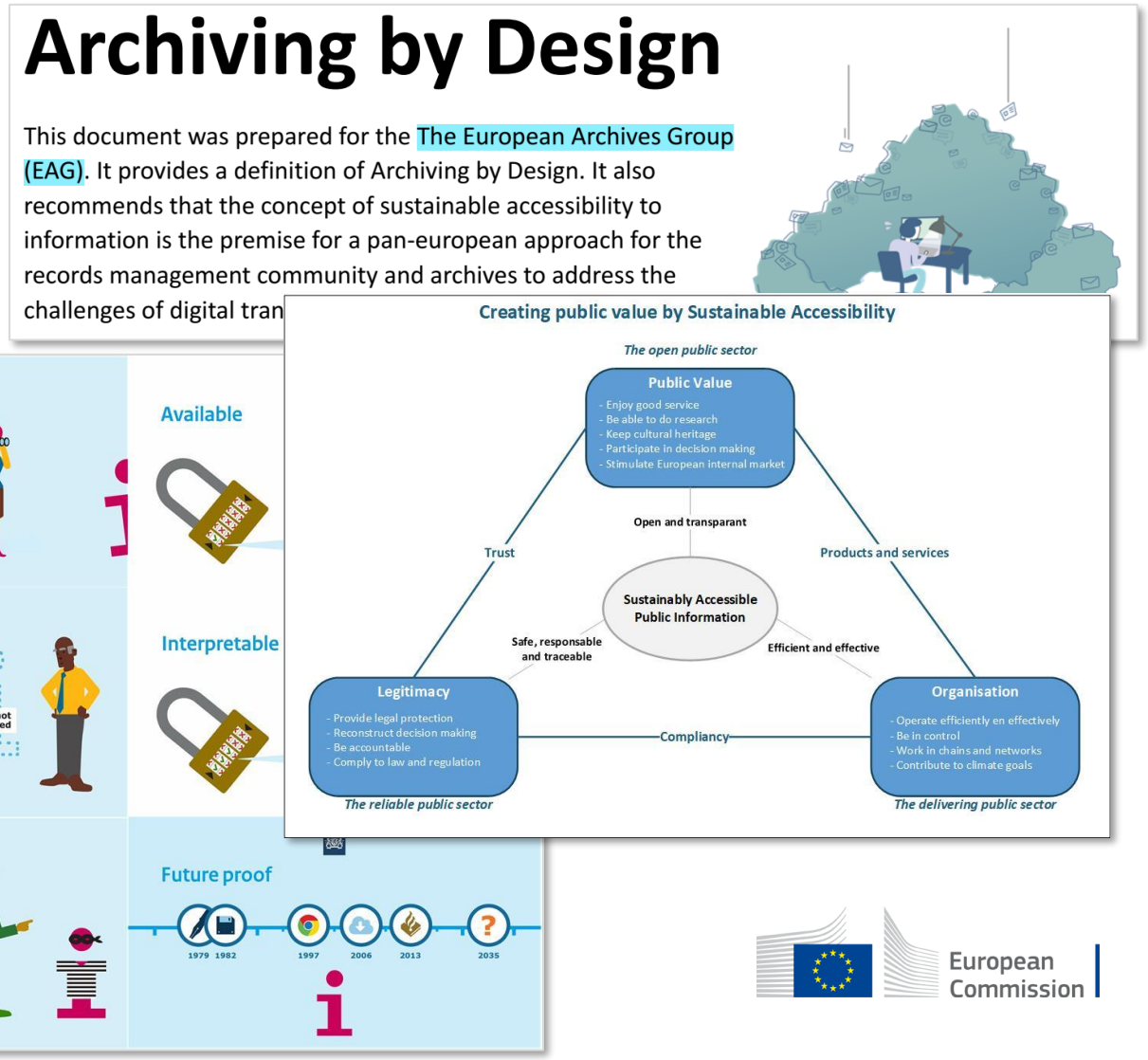
Reference Architecture – Archiving by Design

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



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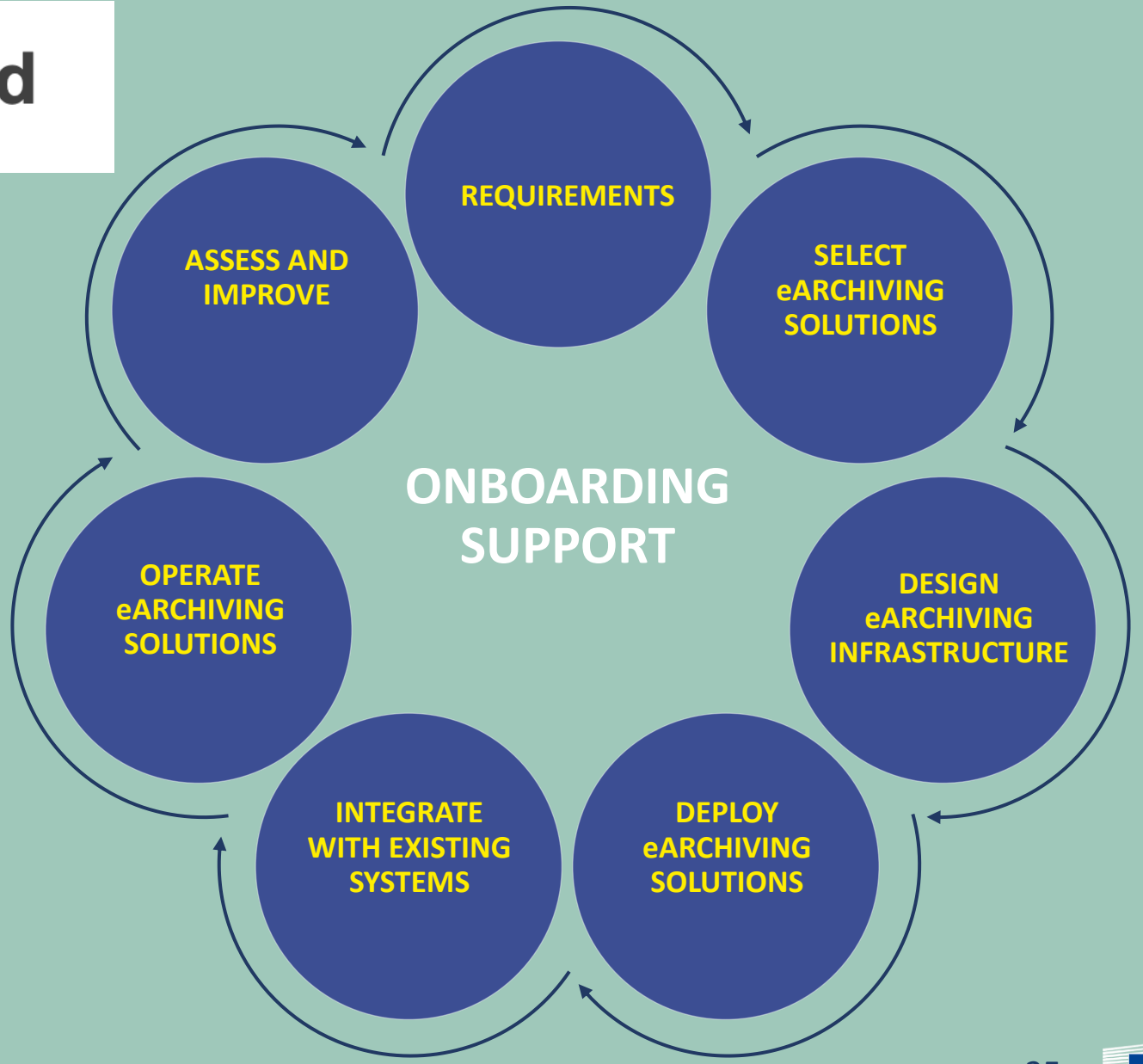
Europa Vetus / Nicolai Sanson, ... ; Gulielmi Sanson N. Filii por Sanson, Nicolas (1600-1667). Cartographe - 1668 - National Library of France, France - No Copyright - Other Known Legal Restrictions.
https://www.europeana.eu/item/9200517/ark__12148_btv1b5973170h

Onboarding Services

https://digital-strategy.ec.europa.eu/en/activities/get-involved

eArchiving - get involved



support@e-ark-foundation.eu

eArchiving - get involved

The eArchiving Stakeholders

The eArchiving Initiative is built upon shared knowledge and experiences, which are the basis for creating the eArchiving community and increasing capacity building within the various constituent organisations:

Data producers	Those entities that are, or expect to be in the future, directly or indirectly responsible for depositing content in a digital archive for long-term digital preservation, which guarantees that information remains available, have not changed over time and retains the legal value.	**Guidance**
Archives	Those entities that are, or expect to be, directly or indirectly responsible for the governance of a digital archive, which provides long-term digital preservation.	**Guidance**
Solution providers	Those entities that are, or expect to be in the future, providers of technology or services for digital archives or for data creators.	**Guidance**

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Support Services

https://digital-strategy.ec.europa.eu/en/activities/support-provision-and-onboarding-services

support@e-ark-foundation.eu

The eArchiving Support desk

The eArchiving support desk is the primary contact point for institutions and organisations to whom we provide support regarding questions and requests related to theeArchiving specifications and components.

We offer the following services:

Support desk provision

The support desk is set up to address issues, questions, and feedback that organisations and institutions might have related with any eArchiving service.

Onboarding service for new organisations

This service aims to assist and give guidance to organisations and institutions that want to implement or receive training in the eArchiving specifications and components.

You can contact us via email (support@e-ark-foundation.eu) for your questions, comments about eArchiving and advice on implementing, integrating and testing in your solution!

Check the privacy statement before sending your questions and comments.

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Ciutat de les Arts i les Ciències, València, Valencia, Spain
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Training Services

https://digital-strategy.ec.europa.eu/en/activities/earchiving-training

eArchiving - training and curriculum

eArchiving offers training resources to promote understanding of eArchiving services and simplify long-term access to information.

As digital records proliferate, organisations face increasing pressure to manage their digital archives to comply with statutory and business requirements. These digital archives play a vital role in safeguarding our records: national, regional and local; business and public; social, cultural and scientific; and personal.

To support organisations, the eArchiving Initiative provides specifications, tools and reference software based on international standards for describing, transmitting and preserving digital data.

eArchiving Training

The training will take the form of webinars, face-to-face training sessions and a library of standalone multilingual training resources. Training will target digital archiving skills encompassing short, medium and long-term preservation, concentrating on the E-ARK tools and standards.

Take a look and get the materials of the eArchiving training sessions on the eArchiving webinars website and the recordings of the past sessions to know more.

eArchiving Curriculum

The academic curriculum will complement the industry-based training, with the focus on Masters courses. The curriculum will be released and presented soon. Whether you are beginning your eArchiving journey or are a more advanced user, there is something here for you!

If you have any questions or comments about this page, or eArchiving in general, please visit the eArchiving Initiative support desk.

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Training Services

support@e-ark-foundation.eu

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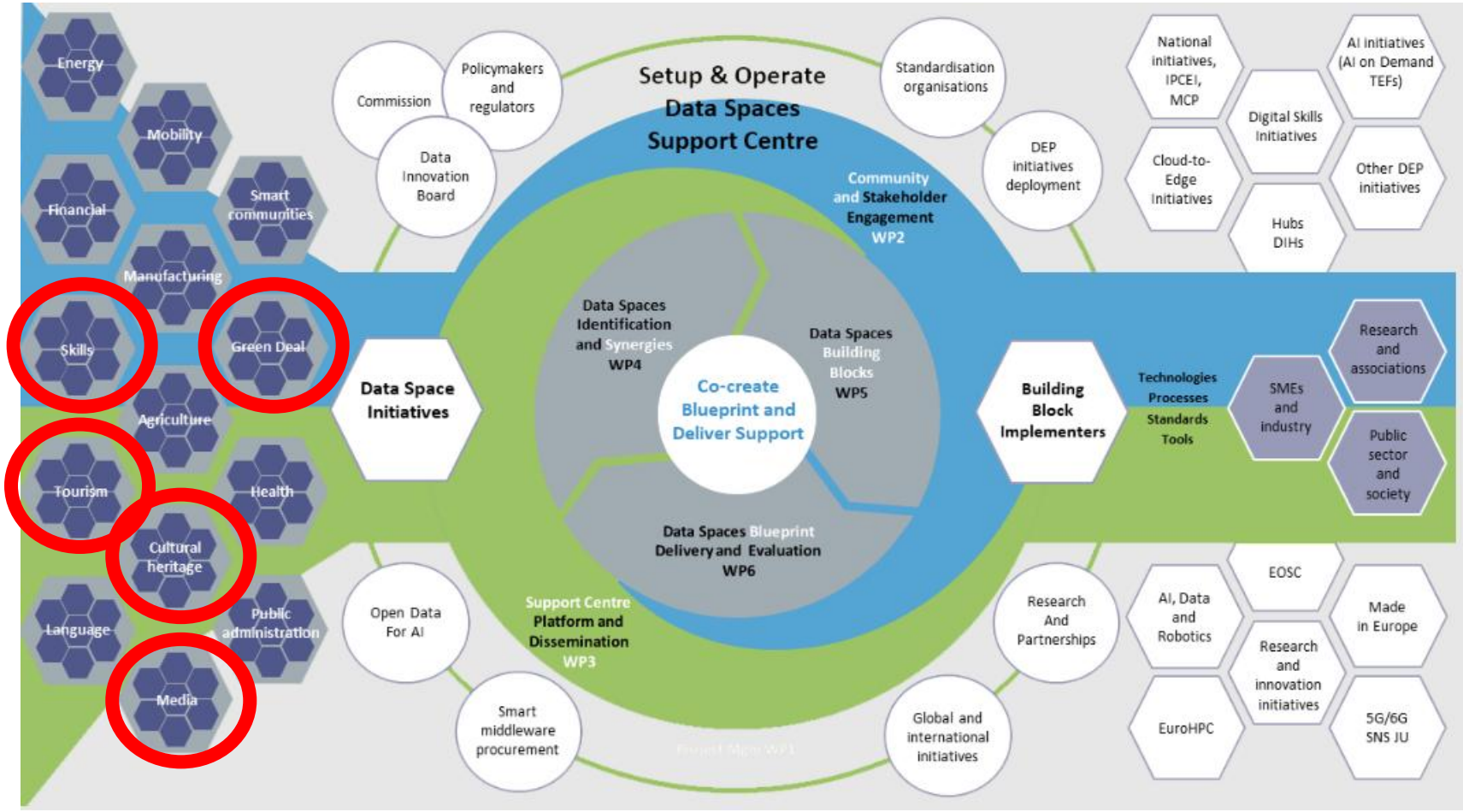
Collaboration Service

https://digital-strategy.ec.europa.eu/en/activities/earchiving-synergies-within-digital-europe

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



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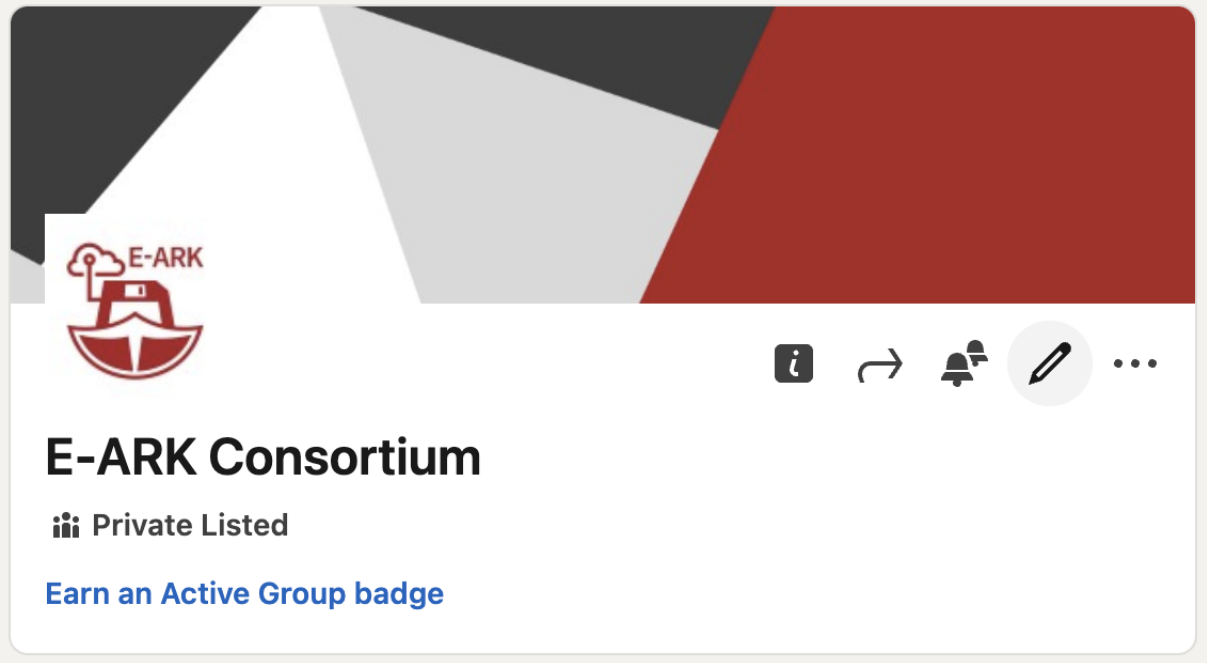
Social Networks - LinkedIn



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

eArchiving Services

eArchiving Important contact details

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support@e-ark-foundation.eu

https://digital-strategy.ec.europa.eu/en/activities/earchiving

Bluesky: eu-eArchiving

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

Questions?

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