

Challenges of Aligning the eArchiving Reference Architecture and Archiving by Design Approach

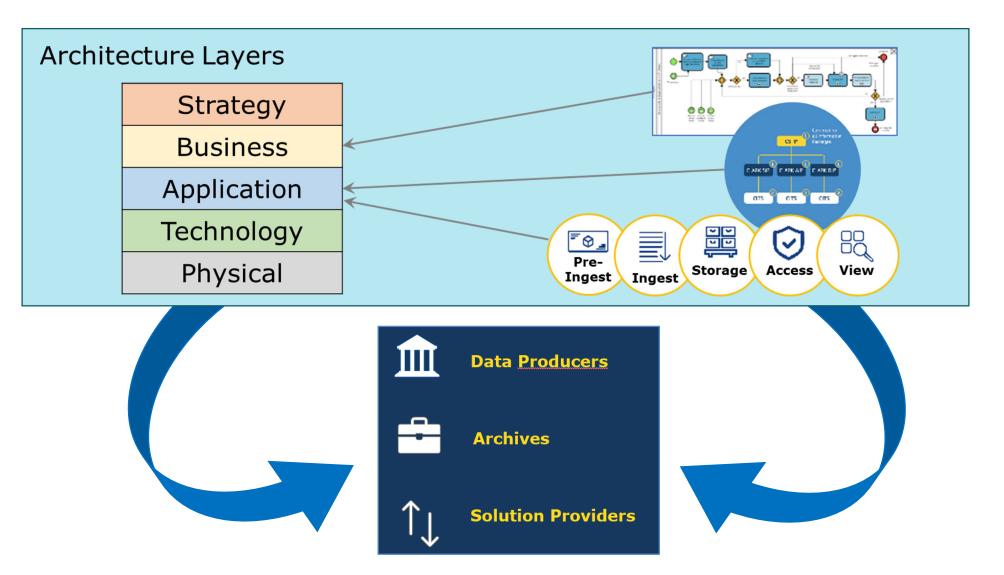
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- 1. The beginnings
- 2. Archiving by Design
- 3. Problems to be solved
- 4. **DUTO Framework**
- 5. The solution
- **Future plans**



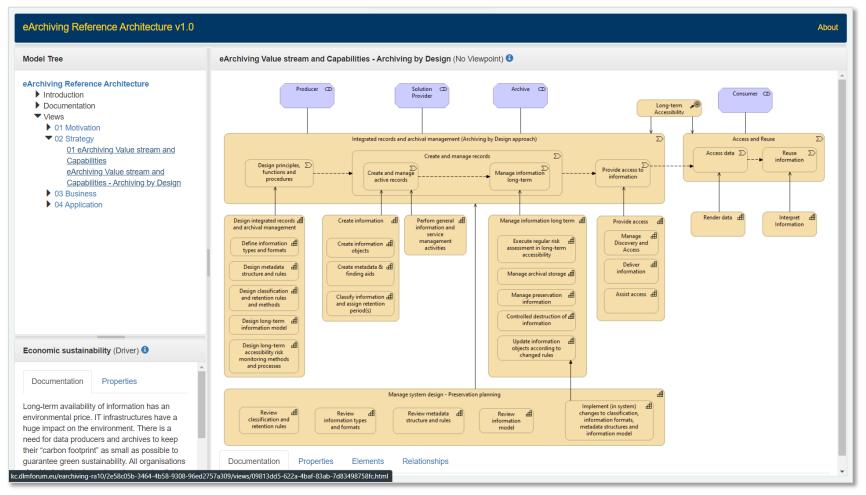
eArchiving Reference Architecture







Strategy view for AbD (v1.0)

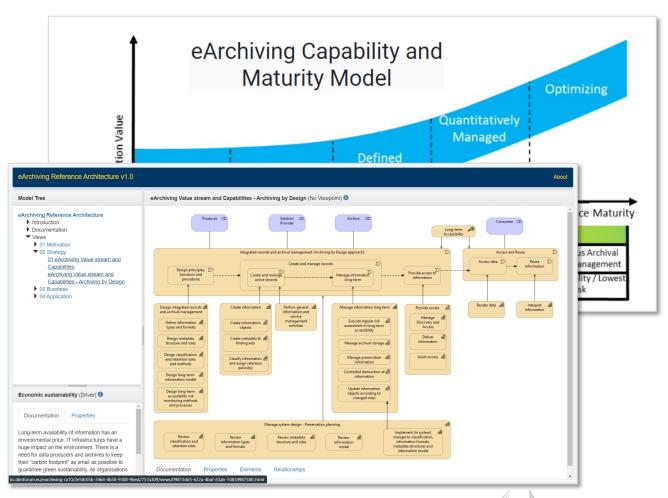




Reference Architecture – 1st project year

Parallel activities:

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





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EAG AbD working group – Whitepaper



Archiving by Design

This document was prepared by the European Archives Group and provides a definition of Archiving by Design as one of the new principles of European information governance. 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 transformation.

Problem statement

Digital transformation keeps altering the playing field in which we operate as an archival and records management community.

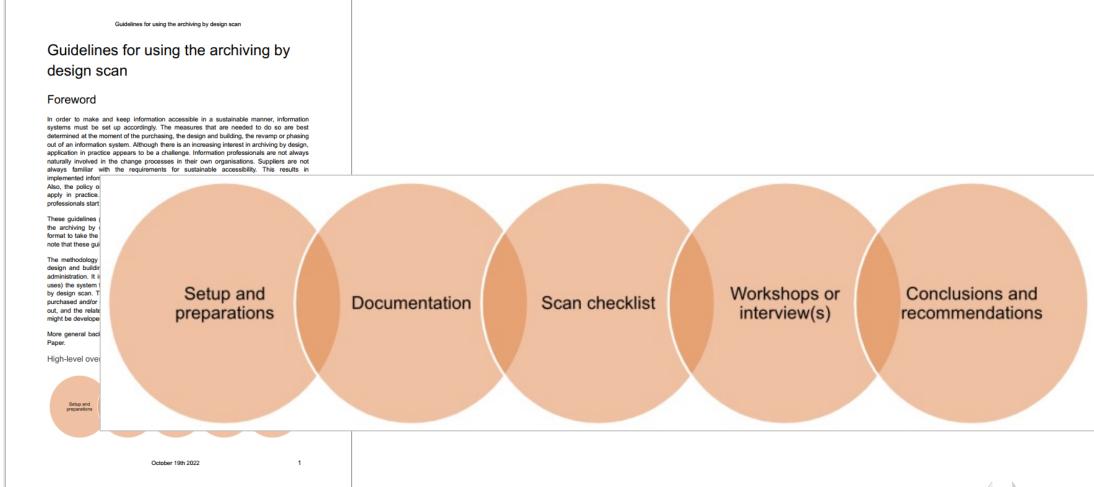
- Information is everywhere, and its growth is exponential.
- Information takes on new forms.
- Information is used and re-used in novel ways utilizing new technologies.

The definition of Archiving by Design:

"During the design or adjustment of information systems, the appropriate measures are taken to ensure that the information becomes, and stays, sustainably accessible".



EAG AbD working group – AbD Scan



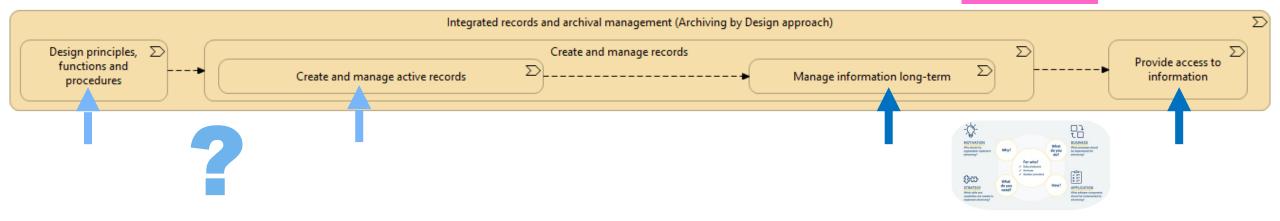


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Problems to be solved

OAIS



Scope issue: AbD deals with any information system and with the whole information lifecycle.

Mandate issue: (we think that) we are only mandated to say anything about digital archiving

eArchiving Reference Architecture

Focus on digital archiving

If way say something, we say it from a digital archiving point of view

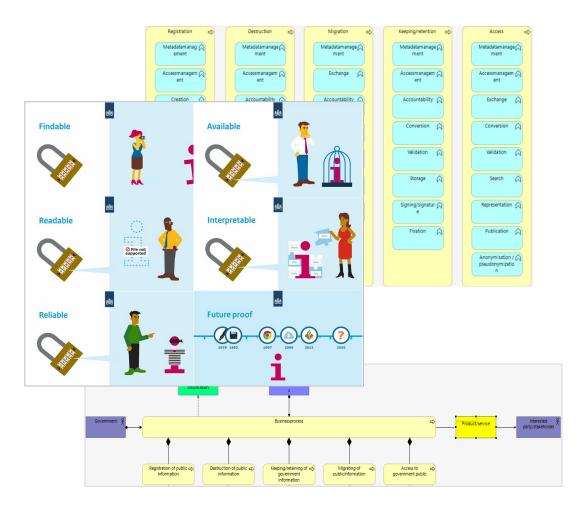


Problems to be solved

What do we really have to work with from the AbD approach?



EAG AbD working group – AbD Scan



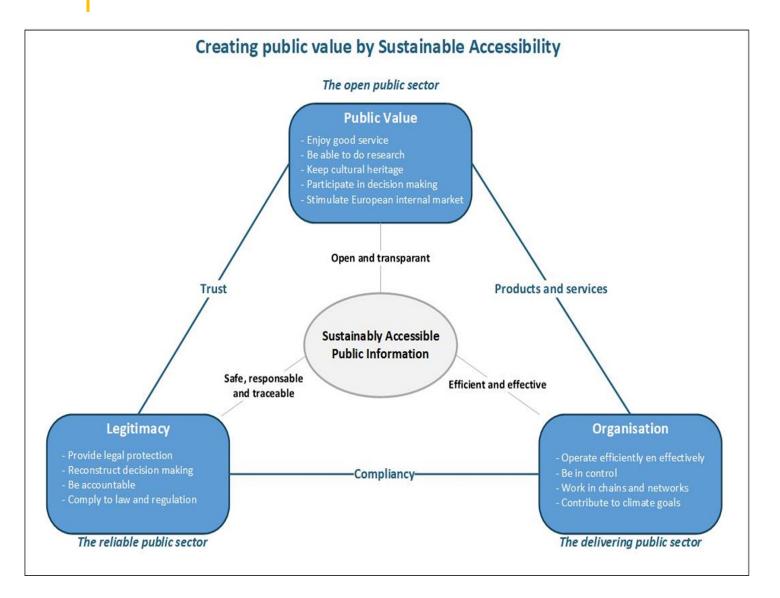
DUTO Framework



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DUTO framework – Sustainable accessibility



Sustainably accessible information is:

- Findable
- Available
- Readable
- Interpretable
- Reliable
- Future proof



DUTO framework – Sustainable accessibility

- Values
- Quality attributes (6)
- General preconditions
- DUTO-processmodel
- DUTO-functionsmodel (as part of the processes)
- DUTO-services
- Implementation patterns
- Model requirements





DUTO framework – Sustainable accessibility

Selecting the model requirements

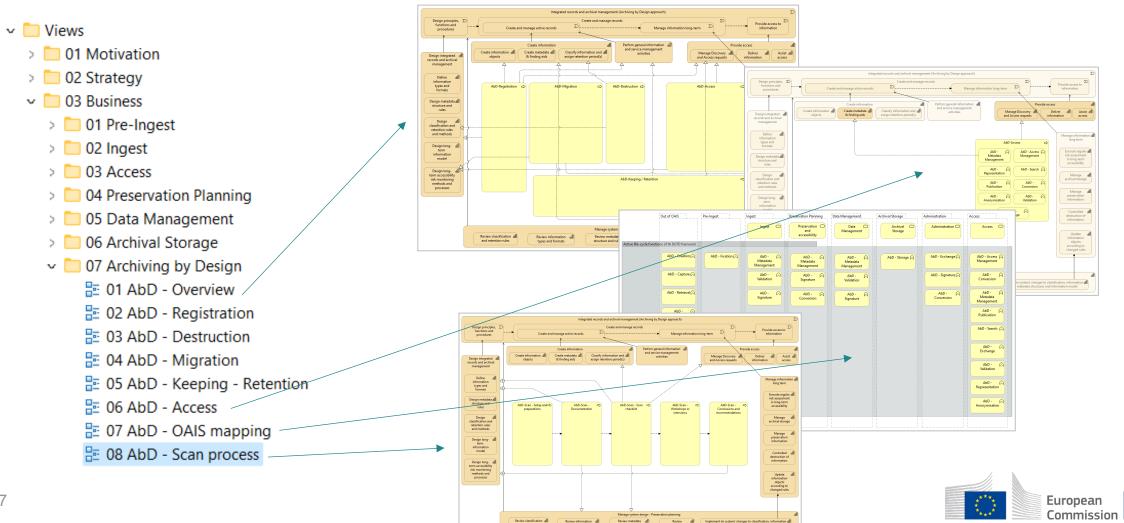
R19	It is possible to enrich information objects with additional metadata throughout the entire life cycle	Metadata management	S	
R20	The capturing of information objects in common file formats and/or native formats is supported	Capture	S	NEN-ISO 16175- 1:20200 R.1.1.5
R21	It is possible to include information objects and associated metadata both in bulk and individually, ensuring the integrity of the content and structure of information objects	Capture	S	NEN-ISO 16175- 1:2020 R.1.1.4
R22	The solution can be linked to an identity & access facility	Accessmanagement	S	

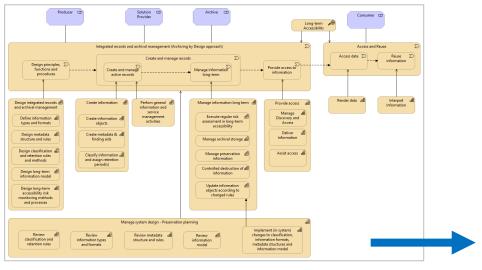
D15	User actions in the destruction	Validation	S	NEN-ISO TR
	process are traceable.			21965, 3.1.10
				NEN-ISO
				15489-1, 9.9
D16	Destruction lists can be made	Accountability	S	NEN-ISO
	available in an open file			16175-1, 2.2.1
	format in accordance with the			
	Preferred Formats Guide [or			
	organization-specific standard]			
D17	Destruction lists can be	Accountability	S	NEN-ISO
	configured based on available			16175-1, 2.1.2
	metadata fields.			
D18	Backups are not kept for	Deletion	S	Moreq, 514;
	longer than [period], to			Handreiking
	prevent information objects			Digitaal
	that have already been			vernietigen
	destroyed from being			
	restored.			

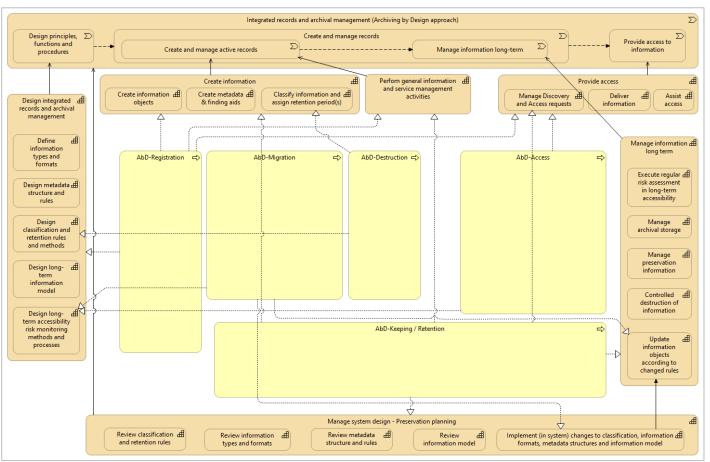


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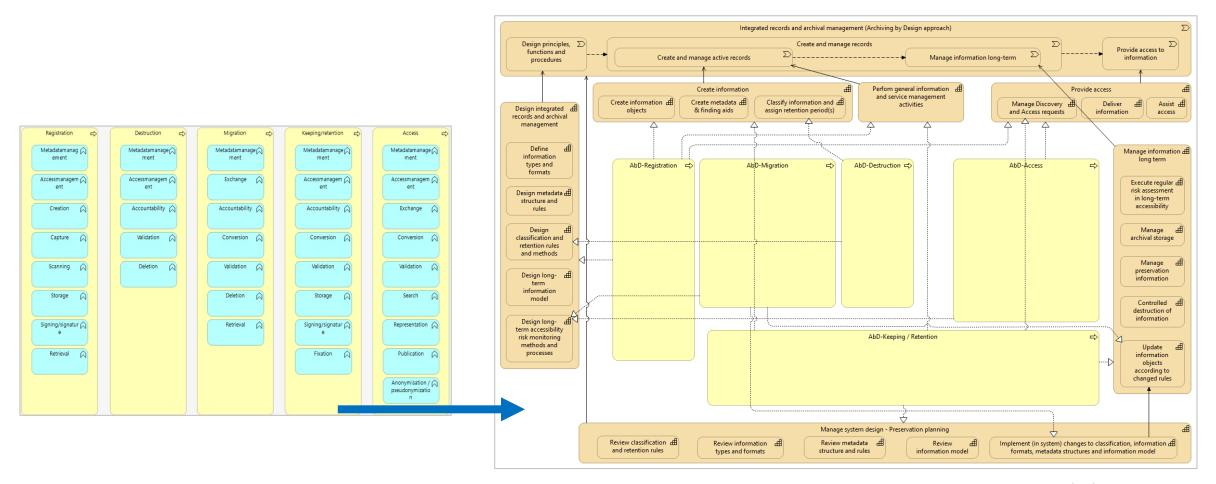




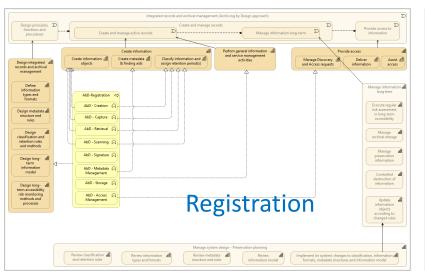


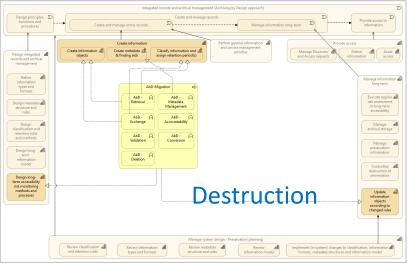


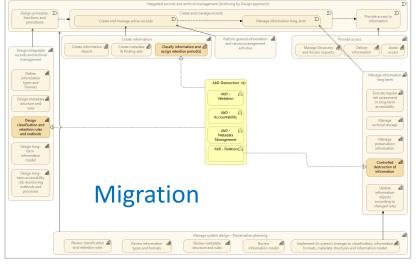


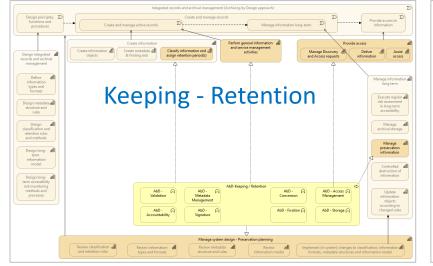


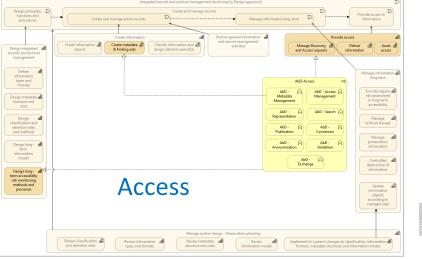






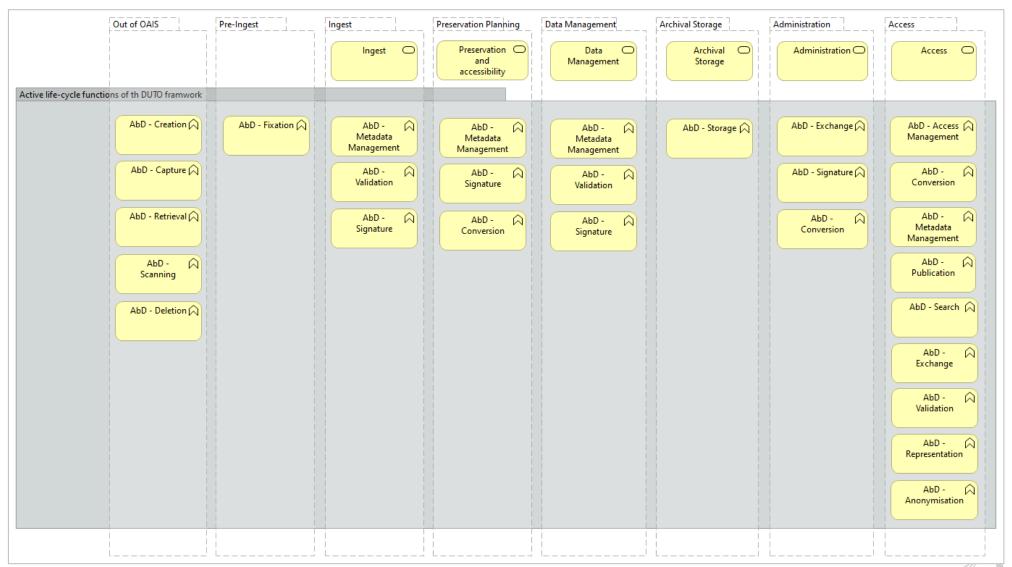






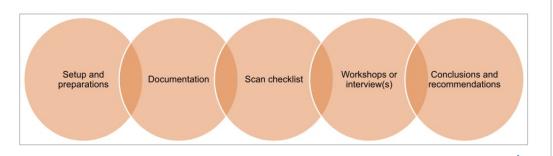


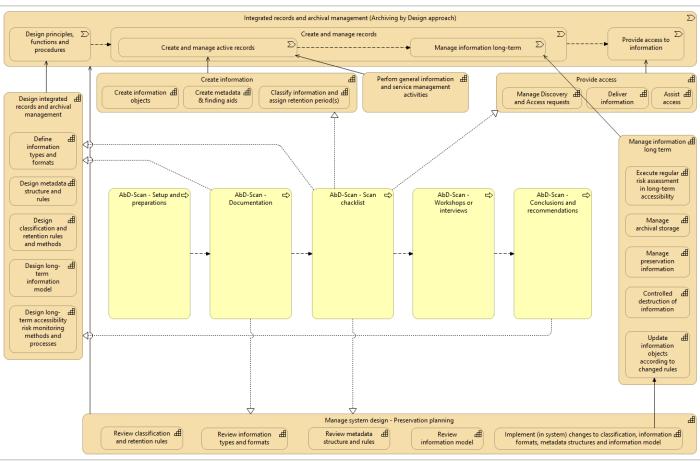
DUTO function to OAIS mapping





Modelling AbD Scan method





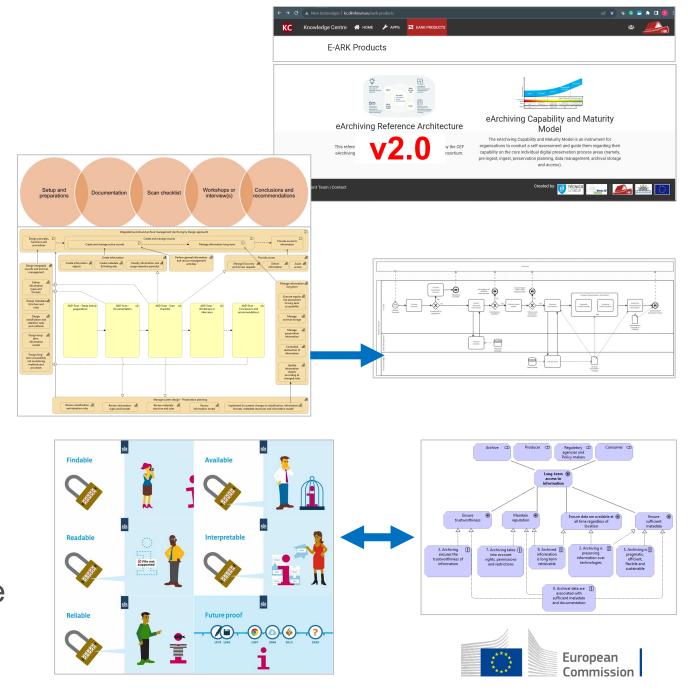


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Future plans

- eArchiving Reference Architecture
 Version 2.0 (end of 2023)
- Detail the AbD Scan view
 → process model
- AbD scenarios (distributed archiving, archiving at the source, ...)
- Address DUTO attributes and values in the drivers – goals – principles structure of the reference architecture



Thank you



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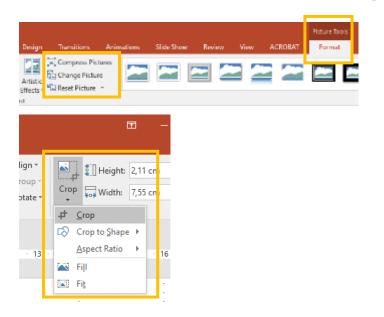
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Additional Resources

- A presentation with tips on "How to do better PowerPoint presentations" and a Power Library with example layouts, icons, and other PPT components are available here.
- Images on various topics can be found on the Audio-visual portal.



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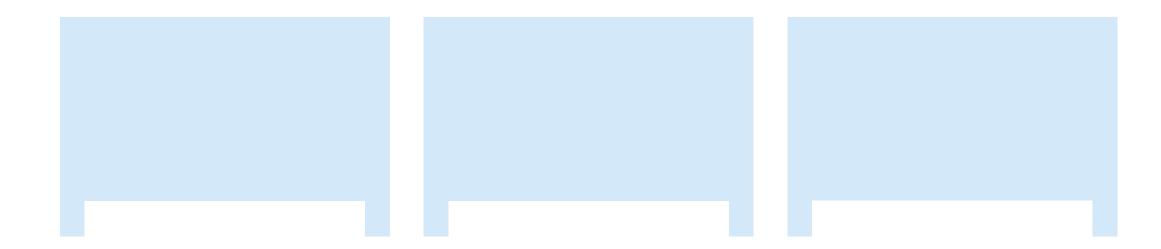




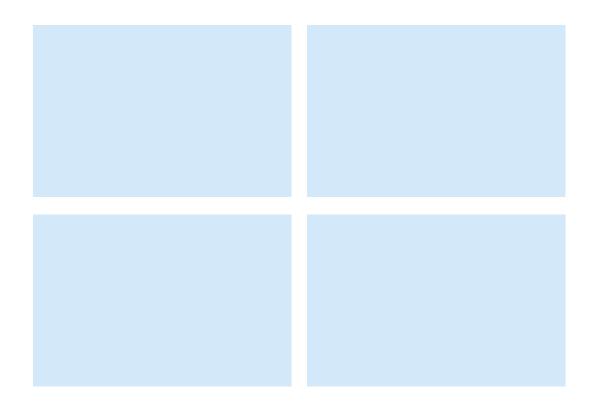




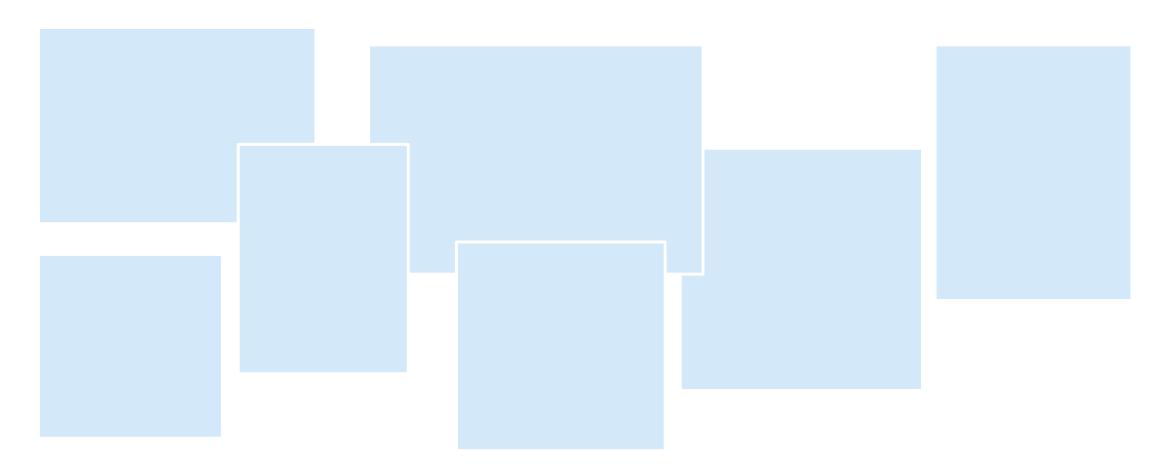




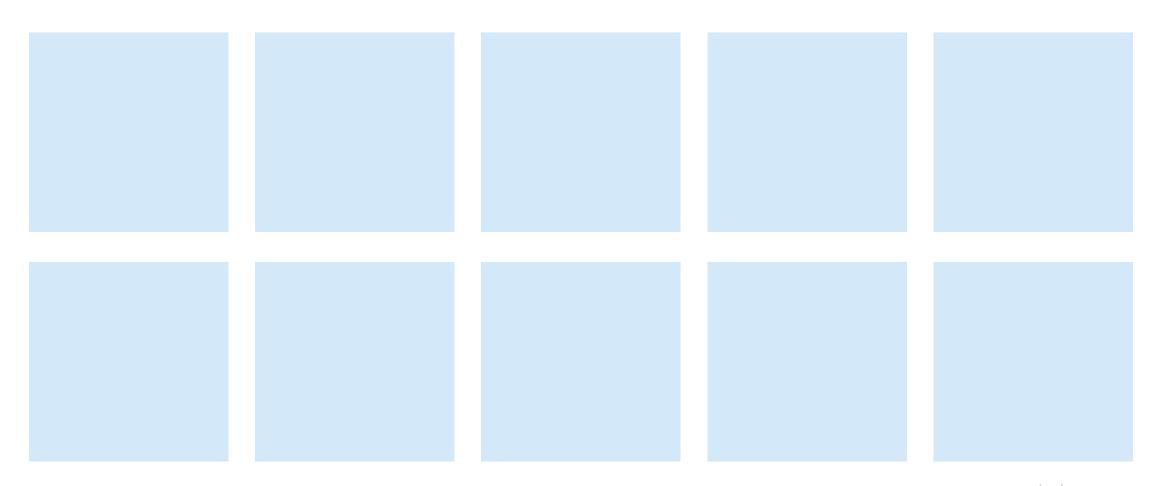




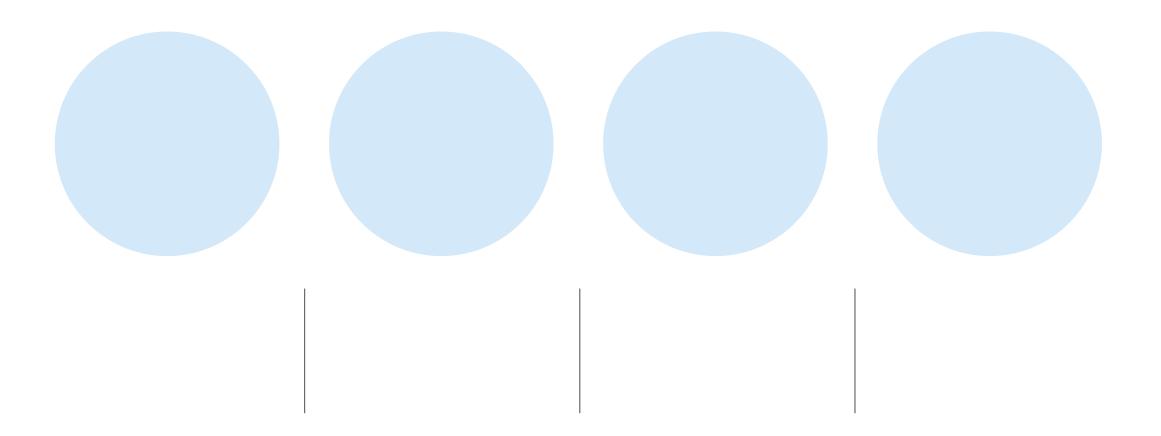














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