



Collecting Experience from using the eArchiving Maturity Model

eArchiving Initiative 2023-2024 event

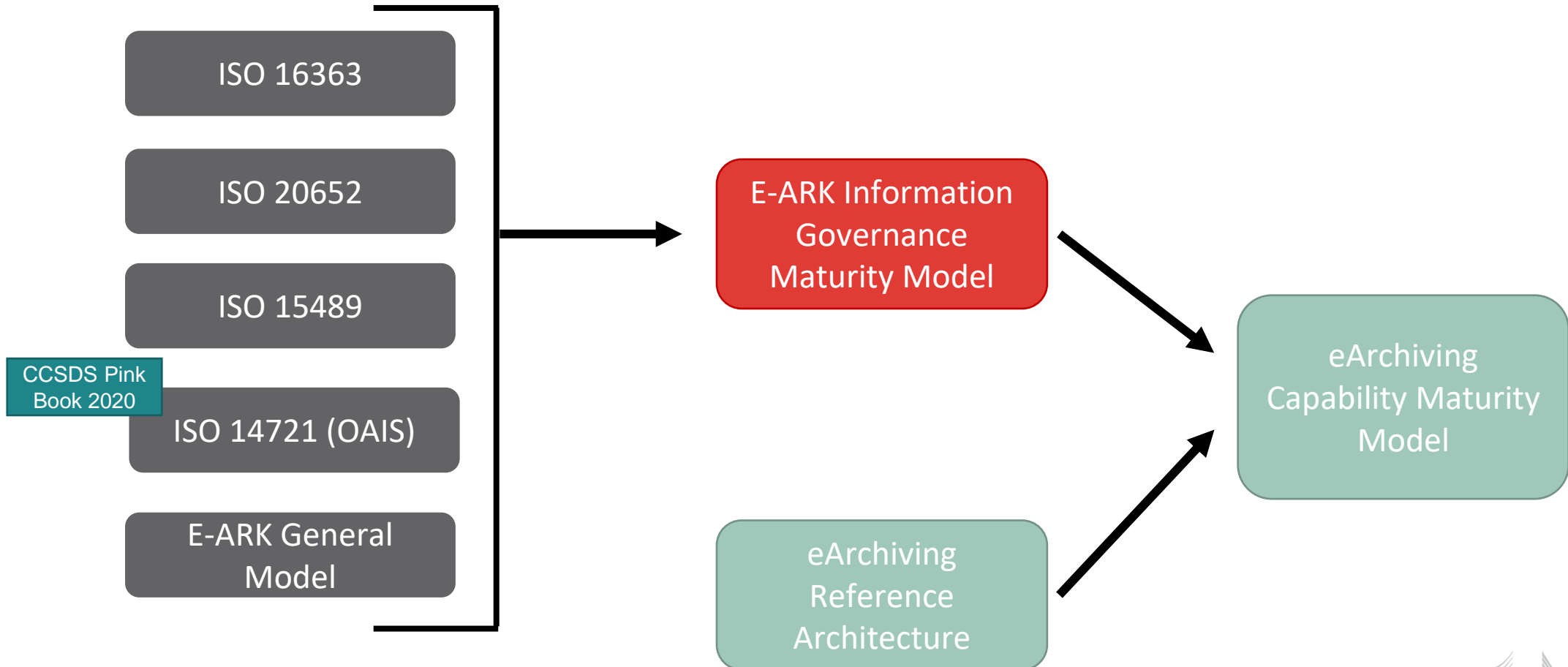
(25th and 26th April, 2023)



Diogo Proença

(University of Lisbon, Portugal)

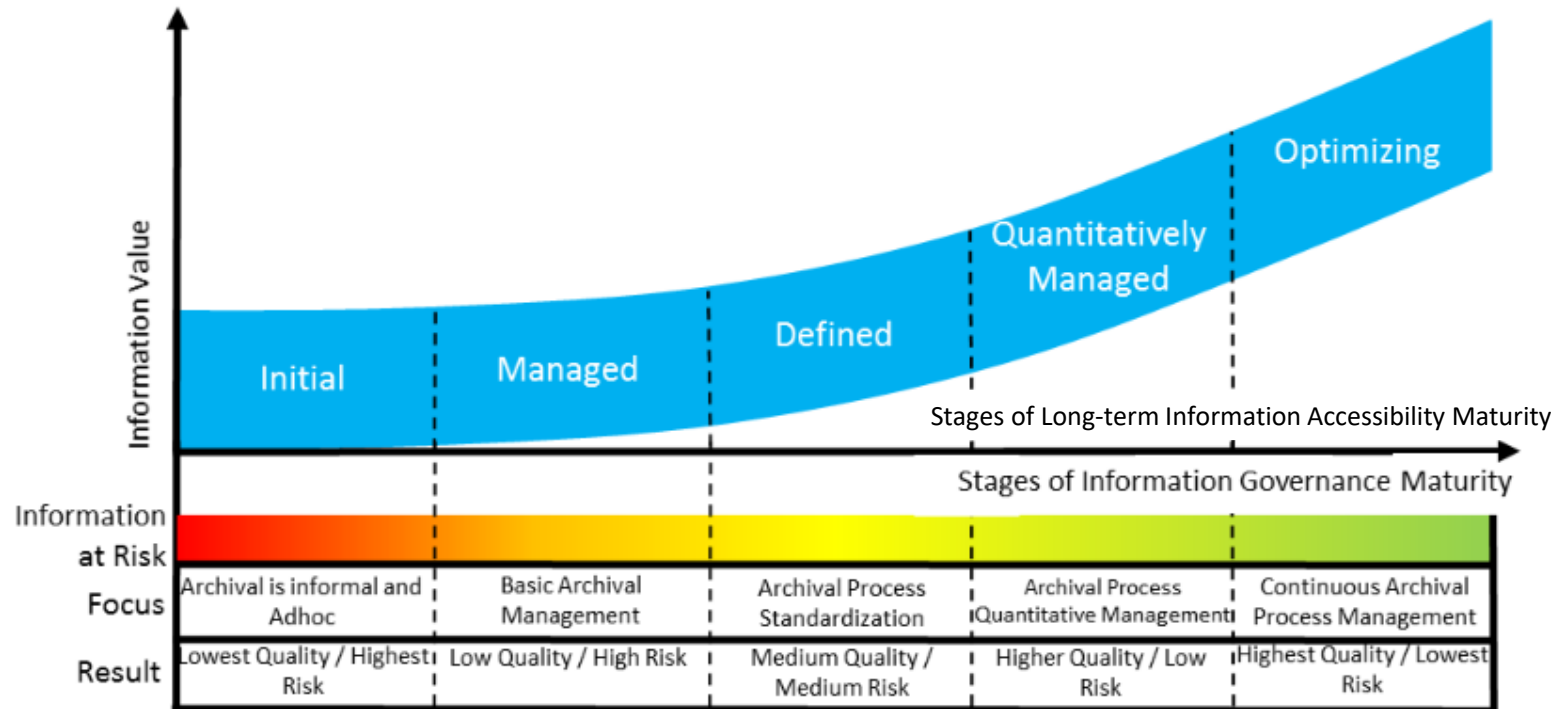
Assessment Services Capability Maturity Model



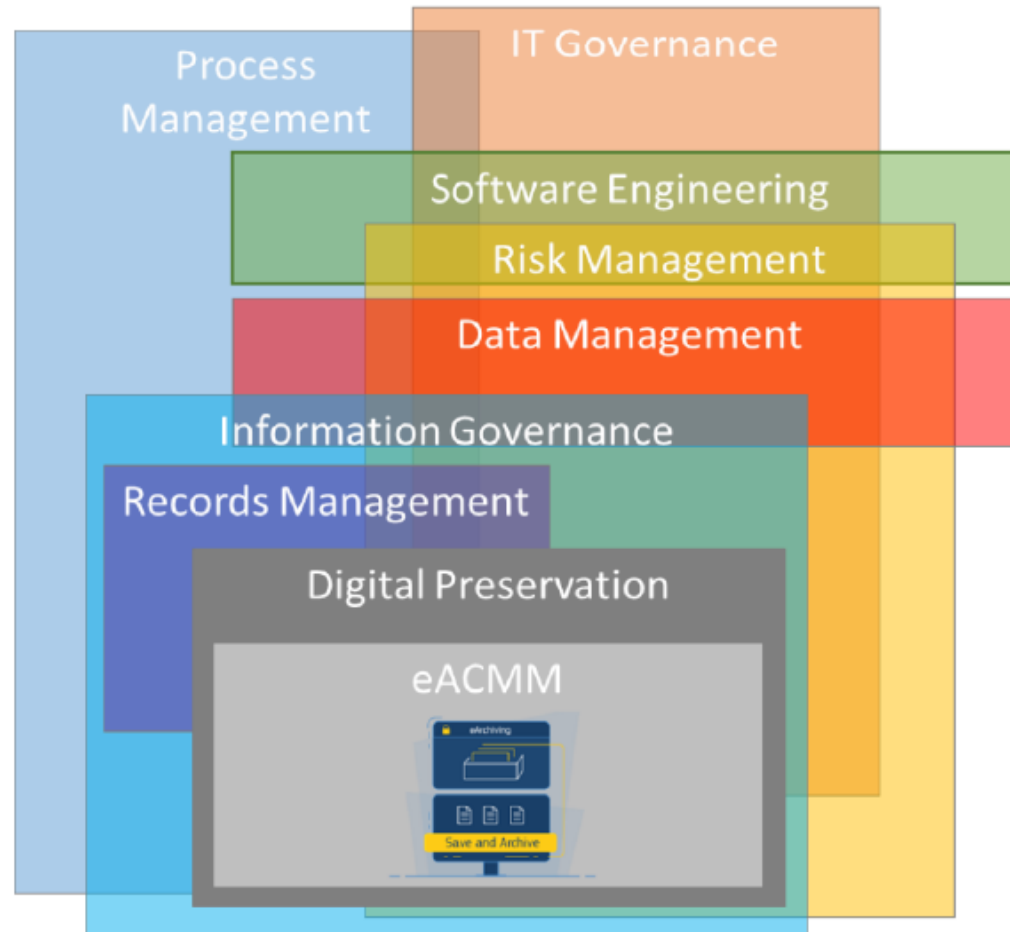
eArchiving Capability Maturity Model

Maturity Curve

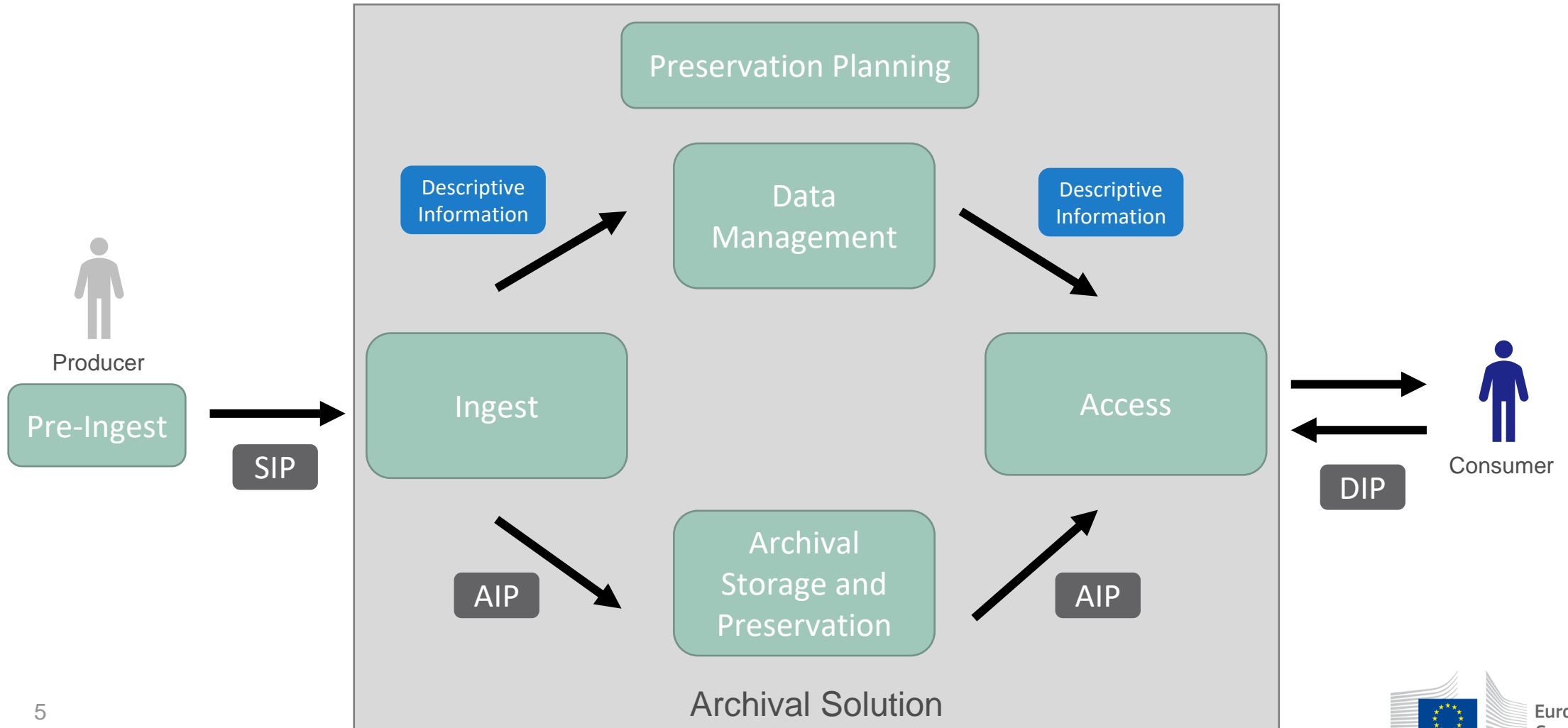
The eArchiving Capability Maturity Model expresses a path towards an increasingly organized and systematic way of deploying digital archiving and preservation capabilities in organizations.



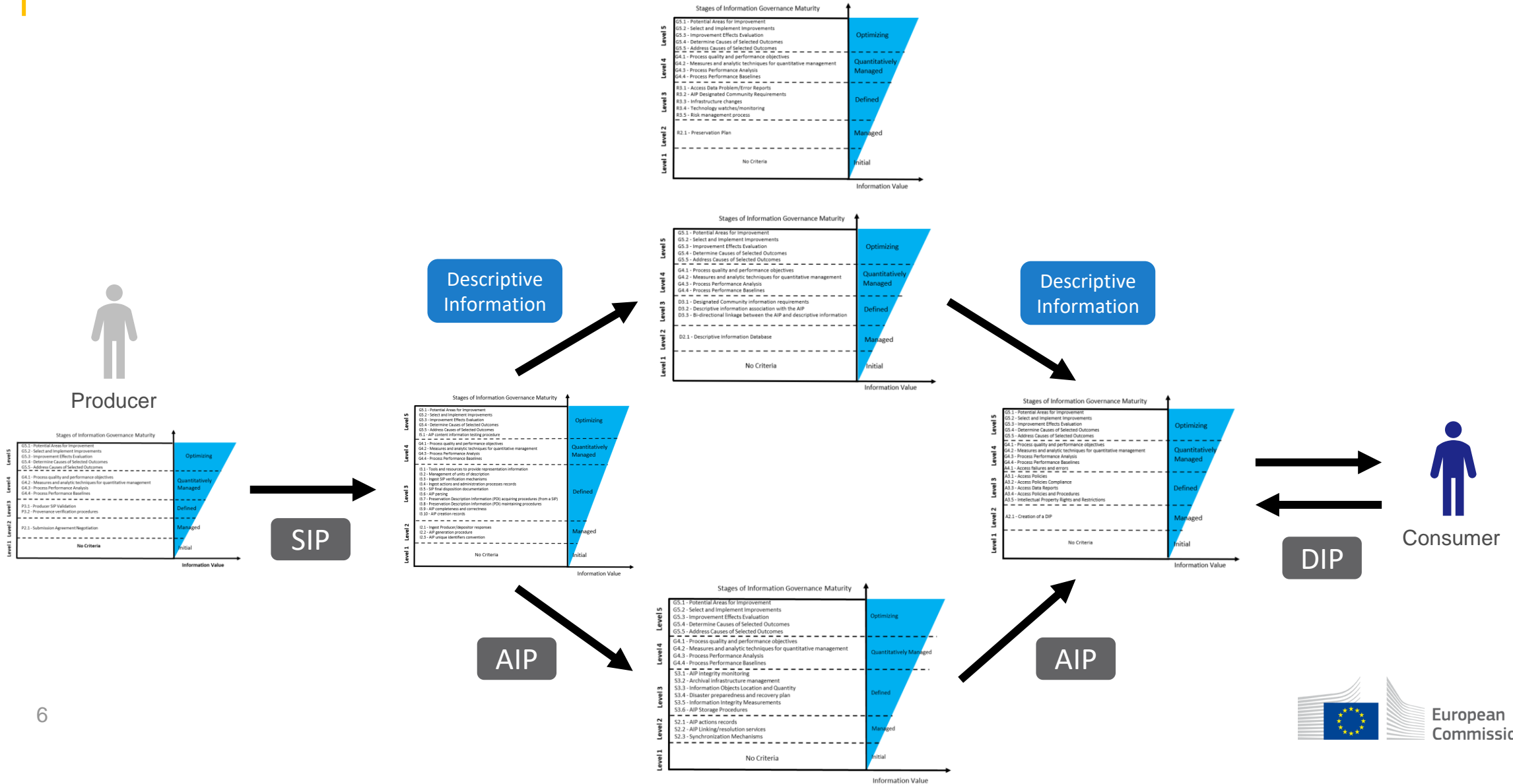
eArchiving Capability Maturity Model Domain Positioning



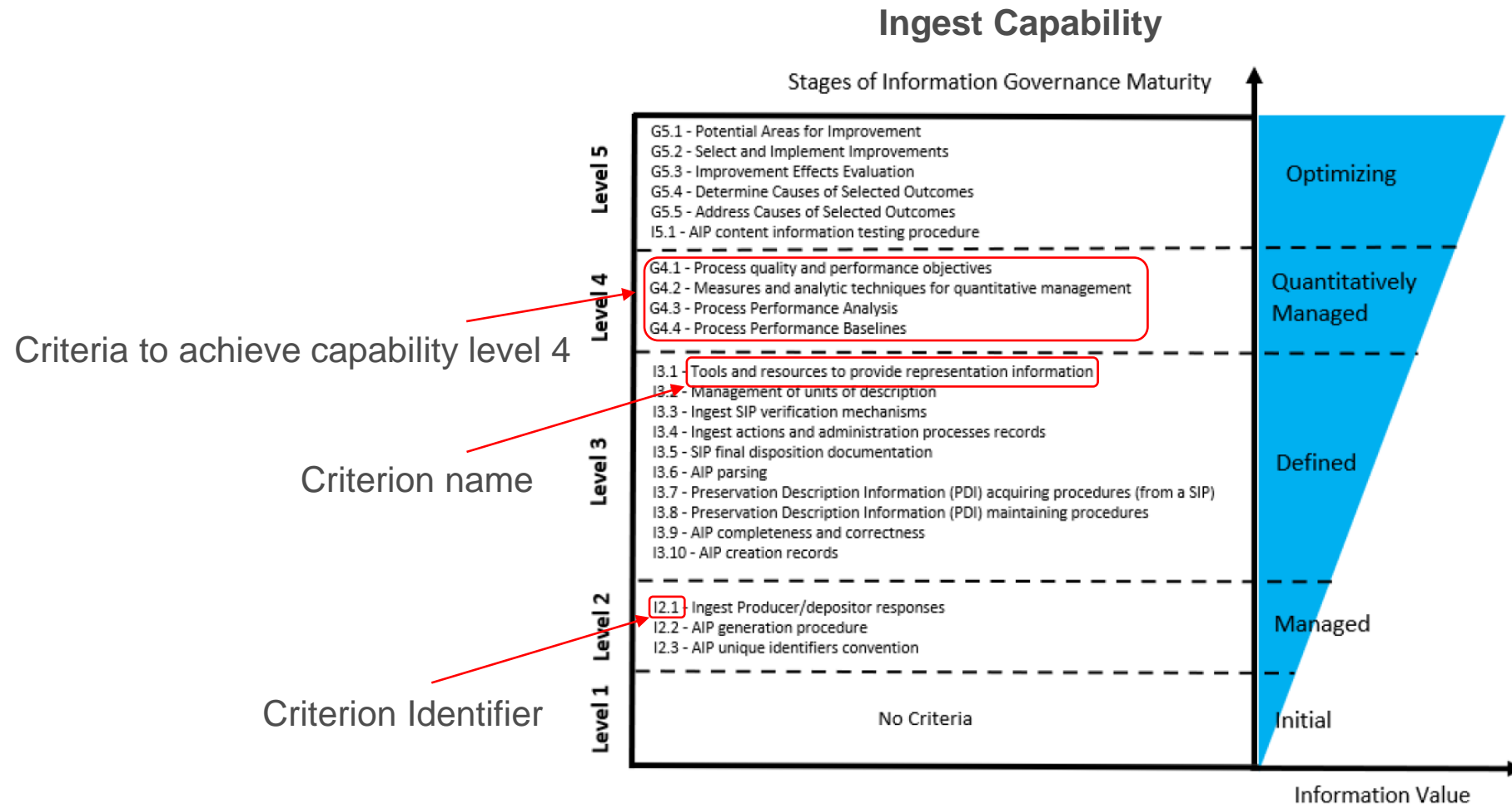
Assessment Services Capability Maturity Model



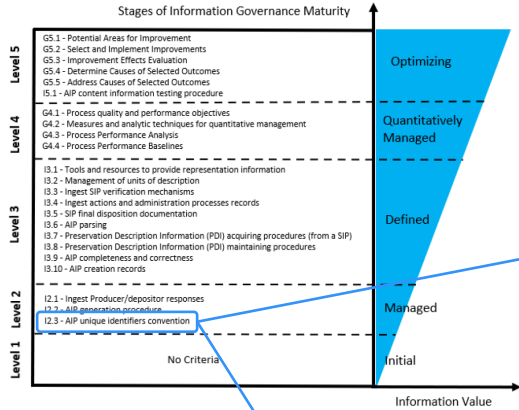
Capability Maturity Model



Assessment Services Capability Maturity Model

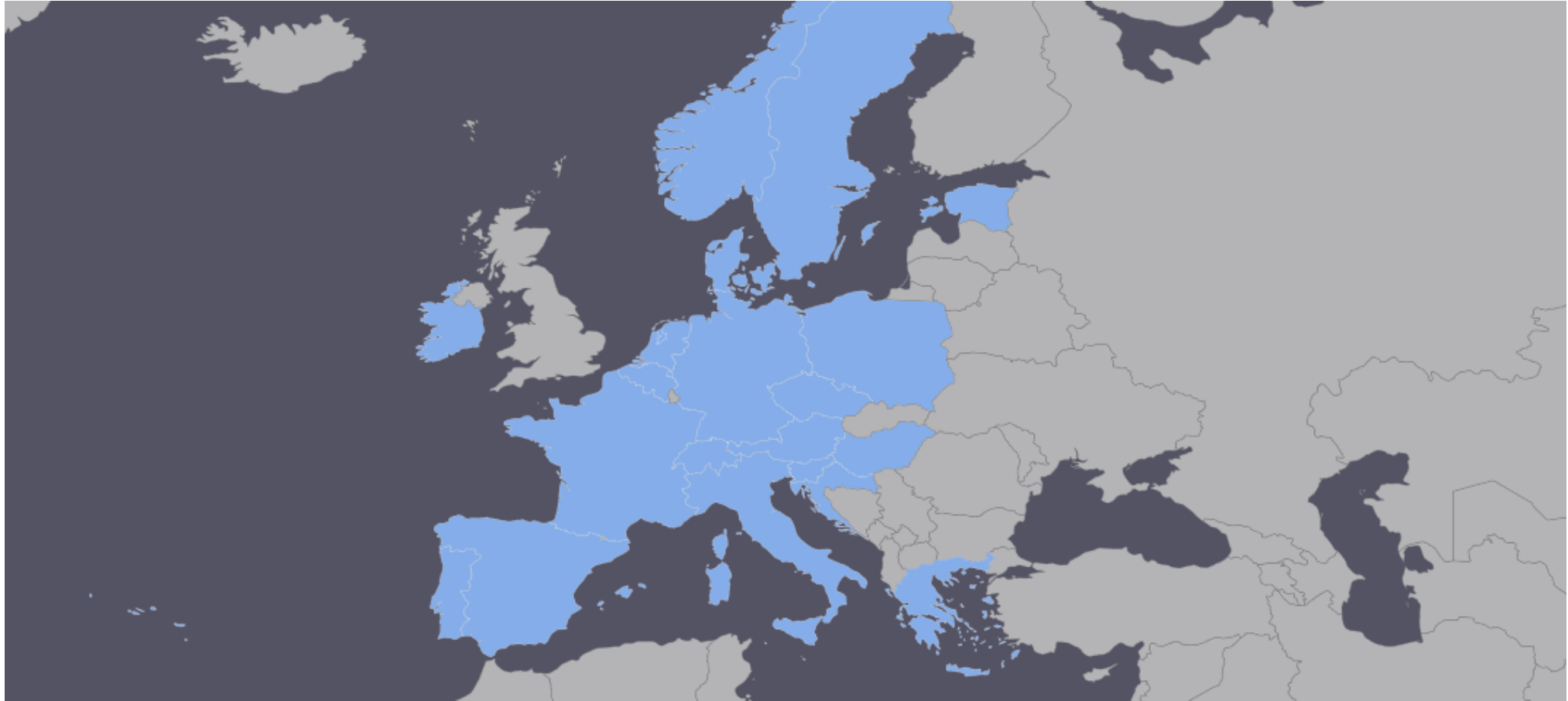


Assessment Services Capability Maturity Model



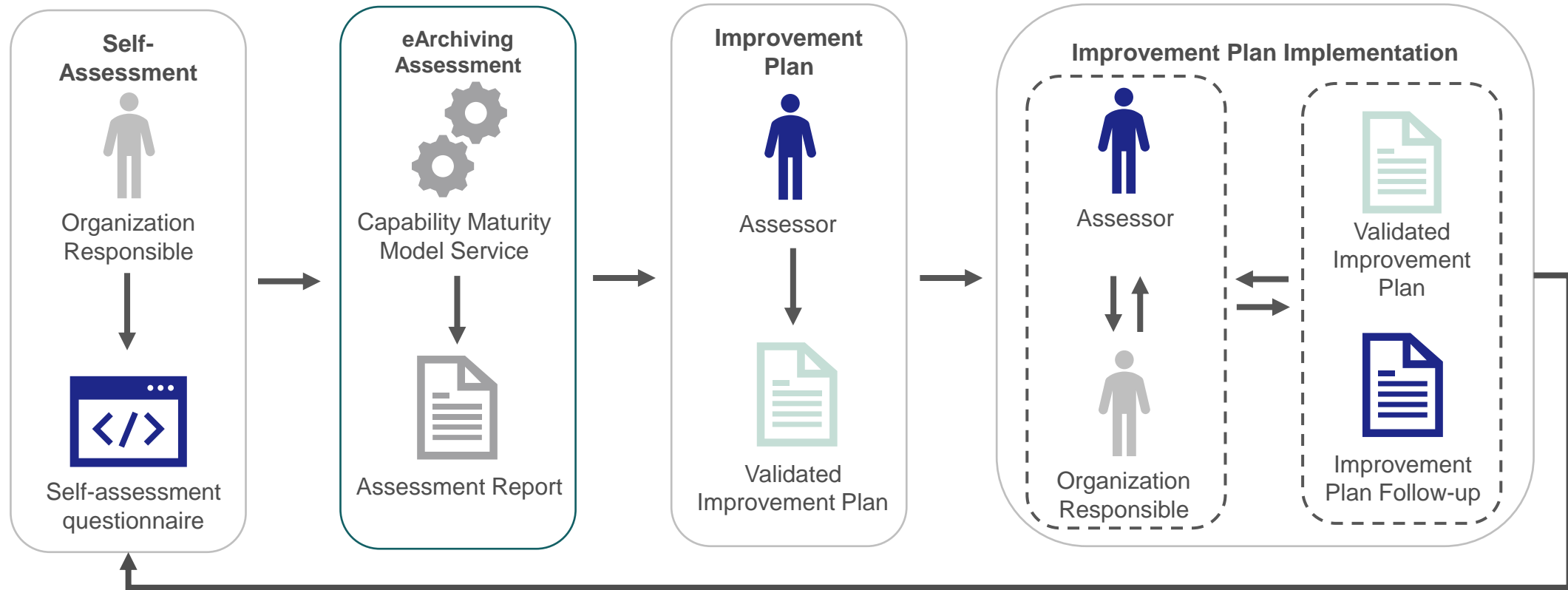
ID	I2.3
Title	AIP unique identifiers convention
Question	Is there a procedure to generate and manage persistent and unique identifiers for an AIP?
Purpose	The purpose is to identify if the organization generates persistent, unique identifier for each AIP so that an IAP can be found in the future. This also ensures that an AIP can be distinguished from all other AIP in the repository. Understand if the organization has records that detail how changes to unique identifiers are to be performed so that AIP don't lose context, are not lost and can be distinguished from all other AIP in the repository.
Notes	Examples of evidence to demonstrate this can be documentation describing naming conventions and physical evidence of its application (e.g., logs).
eArchiving RA Mapping	Views -> 03 Business Layer -> 02 Ingest -> Prepare archival information Views -> 03 Business Layer -> 02 Ingest -> Coordinate archival and descriptive information storage
Terms	-
Answers	No: There is no procedure to generate and manage persistent and unique identifiers for an AIP. Yes: There is a procedure to generate and manage persistent and unique identifiers for an AIP.
Source	TRAC – Criterion 4.2.4 [6]

Assessment Services Capability Maturity Model



We have 25+ reported organizations that used the
capability maturity model

Assessment Services Improvement Process



Assessment Services Feedback

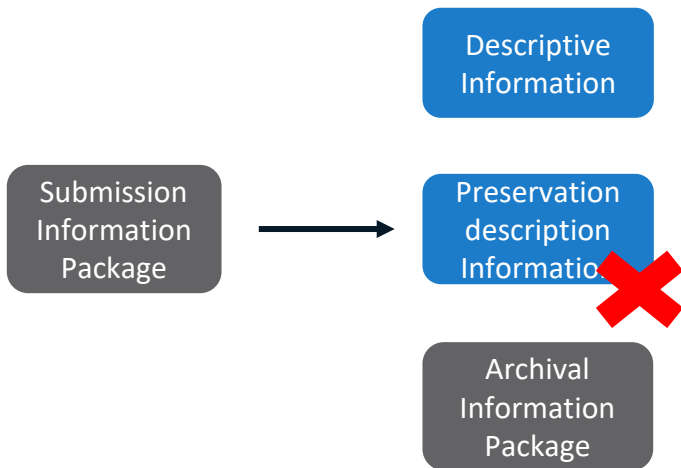
1. It allows for flexible performance monitoring
2. Can help identify areas where organizations aren't operating as desired
3. Allows to determine strategies that can improve their operation and processes
4. Emphasizes learning and improvement
5. By identifying the current maturity level, the model can reveal what needs to change to move to the next level

Assessment Services Findings

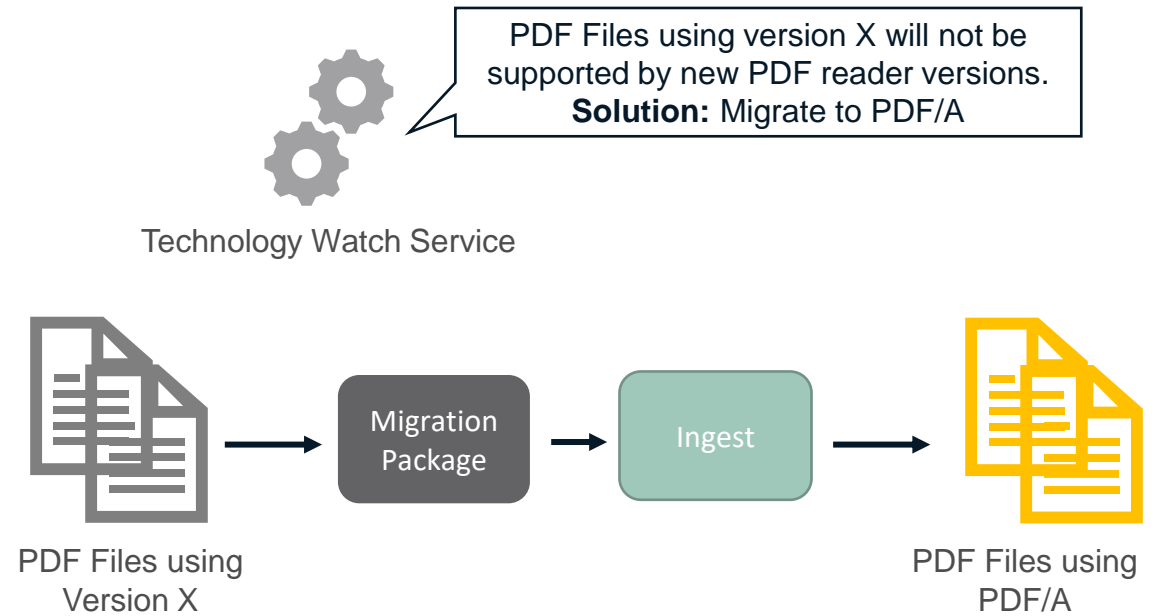
ID	13.7
Title	Preservation Description Information (PDI) acquiring procedures (from a SIP)
Question	Are there procedures for acquiring Preservation Description Information (PDI), from the SIP?
Purpose	The purpose is to identify if the organization has defined procedures to ensure that the PDI is associated with the relevant content information. This will support authenticity of the preserved objects and enable the detection of unauthorized changes.
Notes	Examples of evidence to demonstrate this can be operating procedures, documentation of the Ingest process, and documentation on how the archive acquires and manages Preservation Description Information (PDI).



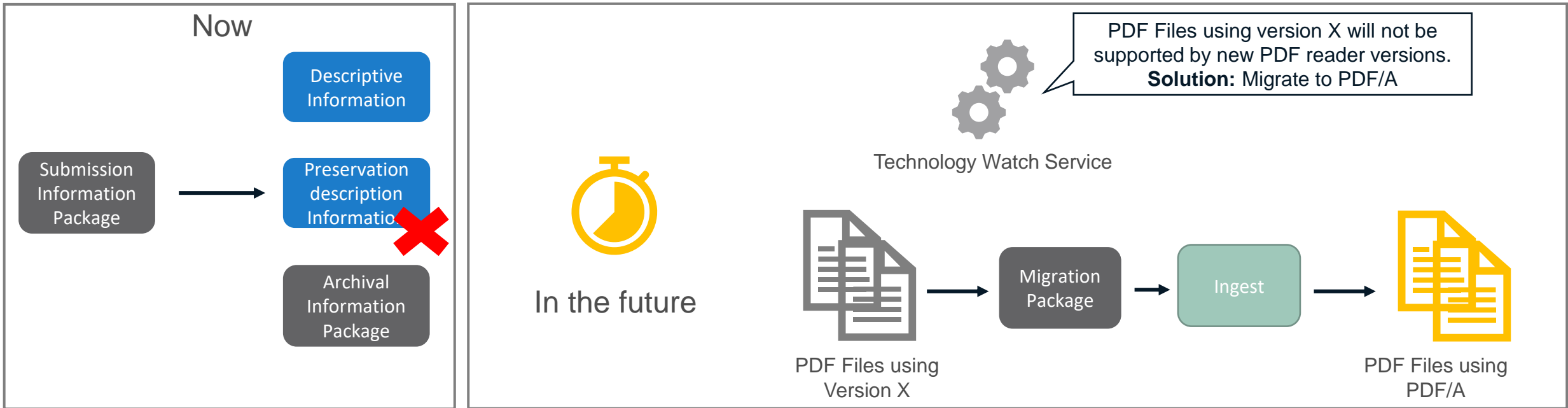
Now



In the future



Assessment Services Findings

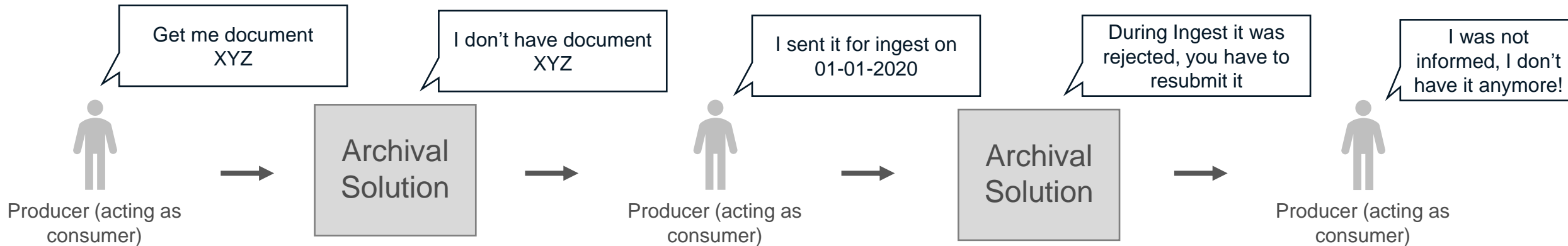


How can we check if the migration was successful?

How can we prove that the migration action did not change the document content?

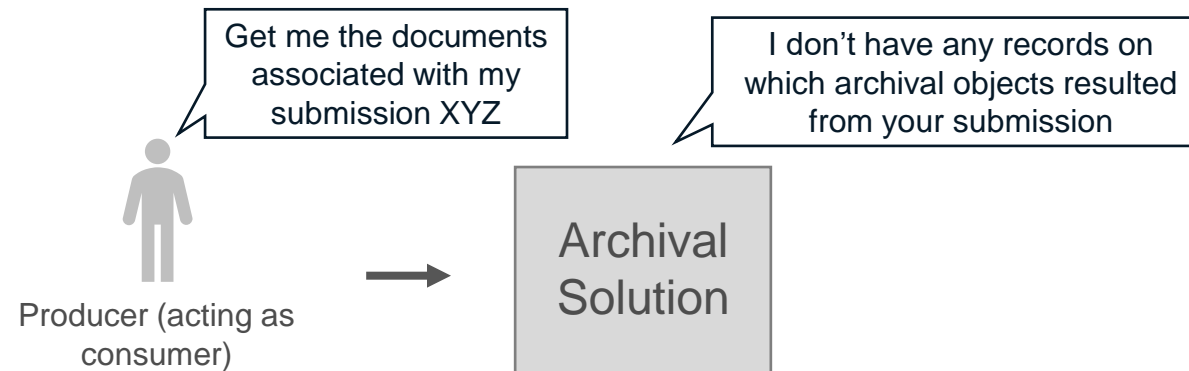
Assessment Services Findings

ID	I2.1
Title	Ingest Producer/depositor responses
Question	Is there a procedure to provide appropriate responses to the Producer, at the agreed points, during the Ingest process?
Purpose	The purpose is to identify if the organization provides responses to the Producer at the agreed points to ensure that there are no faults in communication that might lead to loss of a SIP.
Notes	Examples of evidence to demonstrate this can be submission or deposit agreements, process documentation, operating procedures, or evidence of responses such as reports, memos, or emails.



Assessment Services Findings

ID	I3.10
Title	AIP creation records
Question	Does the Ingest process produces records, according to their legal and regulatory environment, to serve as evidence of the actions performed to create an AIP?
Purpose	The purpose is to identify if the organization has records, according to their legal and regulatory environment, to serve as evidence of the actions performed to create an AIP, as to ensure that nothing is omitted from AIP records which might be needed to verify that all AIP have been properly created and in accordance with the documented procedures.
Notes	Examples of evidence to demonstrate this can be documentation of decisions and/or action taken with timestamps; preservation metadata logged, stored, and linked to relevant digital objects.
eArchiving RA Mapping	Views -> 03 Business Layer -> 02 Ingest -> Prepare archival information Views -> 03 Business Layer -> 02 Ingest -> Coordinate archival and descriptive information storage
Terms	-
Answers	No: There are no records, according to their legal and regulatory environment, to serve as evidence of the actions performed to create an AIP. Yes: There are records, according to their legal and regulatory environment, to serve as evidence of the actions performed to create an AIP.
Source	TRAC – Criterion 4.2.10 [6]



Assessment Services Capability Maturity Model

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



The DILCIS Board

The Digital Information LifeCycle Interoperability Standards Board (DILCIS Board) develops, publishes and supports standards which provide practical interoperability in digital archiving



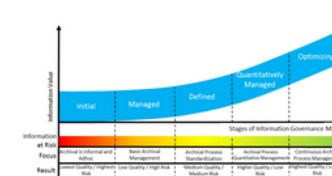
eArchiving Reference Architecture v1.0

This reference model of digital archiving has been created by the CEF eArchiving Building Block in cooperation with the E-ARK Consortium.



eArchiving General Model 2.0

eArchiving is a Building Block at the Connecting Europe Facilities program of the European Commission

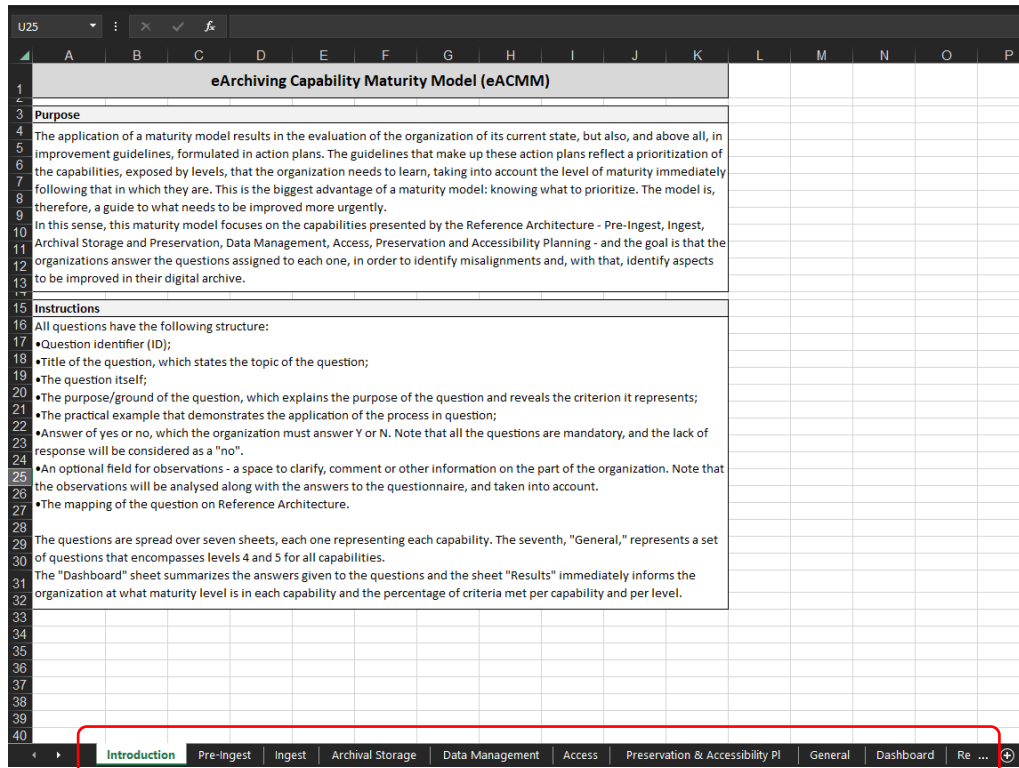


eArchiving Capability and Maturity Model

The eArchiving Capability and Maturity Model is an instrument for organisations to conduct a self-assessment and guide them regarding their capability on the core individual digital preservation process areas (namely, pre-ingest, ingest, preservation planning, data management, archival storage and access).

eArchiving Capability Maturity Model Documents nad Tools

Excel File with Questionnaire



PDF Document



eArchiving Capability Maturity Model Documents nad Tools

Excel File with Questionnaire

	A	B
1	<i>P2.1 - Submission Agreement Negotiation</i>	
2	Is there a procedure to negotiate the terms of the submission agreement the Producer and the Archive?	
3	<p>Purpose: The purpose is to identify if the Archive can negotiate the terms of the submission agreement with Producers. Terms of agreement might include the specification of the metadata that must be included at the time of submission, the schedule and method of submission, the responsibilities of the Producer and the Archive regarding the information being ingested, among other examples.</p> <p>Notes: An example of evidence to demonstrate is the documentation of the procedure to negotiate the terms of the submission agreement between the Producer and the Archive.</p> <p>eArchiving Reference Architecture Mapping: Views -> 03 Business Layer -> 01 Pre-Ingest -> Negotiate Submission Agreement</p>	
4	Answer ("Y" for yes, "N" for no)	Y
5	Observations <i>(in case there are some comments to your answer that you would like to share, please add them below)</i>	
6		
7		
8		
9	<i>P3.1 - Producer SIP Validation</i>	
10	Does the Archive validate if the Producer SIP complies with the defined format and structure specifications?	
11	<p>Purpose: The purpose is to identify if the Archive validates the Producer SIP regarding format and structure. If the SIP has deviations the Archive might reject the SIP and request the Producer to deliver a corrected SIP.</p> <p>Notes: Examples of evidence to demonstrate this can be the logs of the validation procedures; documentation of the validation procedures, among others.</p> <p>eArchiving Reference Architecture Mapping: Views -> 03 Business Layer -> 01 Pre-Ingest -> Prepare submission</p>	
12	Answer ("Y" for yes, "N" for no)	N
13	Observations <i>(in case there are some comments to your answer that you would like to share, please add them below)</i>	
14		
15		
16		

Capability / Aspect	Level	Question	Answer	Count	Criteria met?	Points
Pre-Ingest	2	P2.1	Y	1	YES	1
	3	P3.1	N	0	NO	0
		P3.2	N	0	NO	0
Ingest	2	I2.1	Y	2	NO	1
		I2.2	N			0
		I2.3	Y			1
		I3.1	Y			1
	3	I3.2	Y	7	NO	1
		I3.3	N			0
		I3.4	N			0
		I3.5	Y			1
		I3.6	Y			1
		I3.7	Y			1
Archival Storage & Preservation	2	I3.8	Y	1	YES	1
		I3.9	N			0
		I3.10	Y			1
	3	I5.1	Y	5	NO	1
		S2.1	Y			1
		S2.2	Y			1
		S2.3	Y			1
		S3.1	Y			1
		S3.2	Y			1
		S3.3	N			0
4	S3.4	Y	1	YES	1	
	S3.5	Y			1	
	S3.6	Y			1	
Data Management	2	D2.1	Y	1	YES	1
	3	D3.1	N	1	NO	0
		D3.2	N			0
D3.3		Y	1			
Access	2	A2.1	Y	1	YES	1
		A3.1	N			0
		A3.2	Y			1
	3	A3.3	N	1	NO	0
		A3.4	N			0
		A3.5	N			0
4	A4.1	Y	1	YES	1	
2	R2.1	Y	1	YES	1	

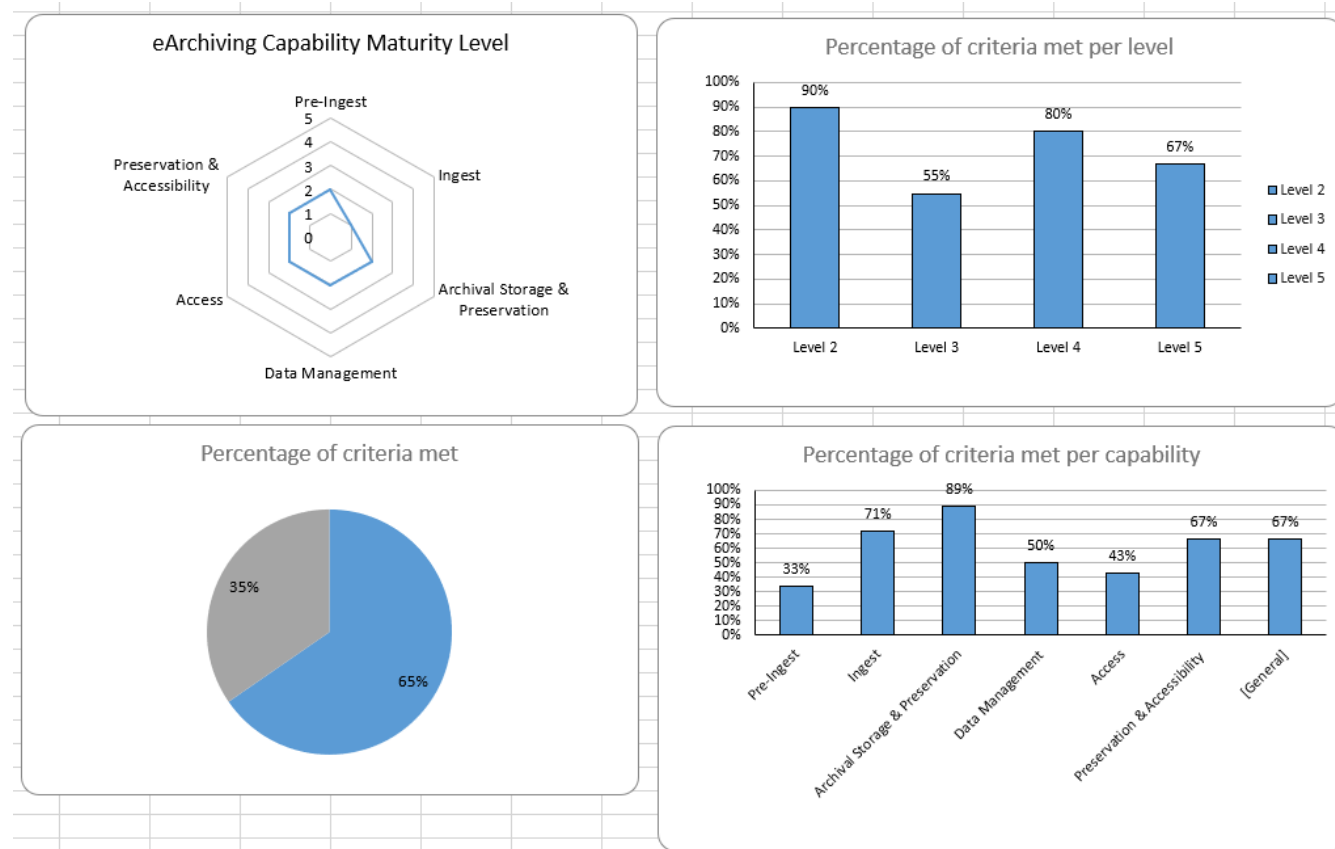
Capability	Level	Levels	Percentage	Count
Pre-Ingest	2	Level 2	90%	9
	1	Level 3	55%	17
Archival Storage & Preservation	2	Level 4	80%	4
	2	Level 5	67%	4
Data Management	2			
Access	2			
Preservation & Accessibility	2			

Criteria met	Percentage	Count
Criteria met	65%	34
Negative responses	35%	18

Capability	Percentage	Count
Pre-Ingest	33%	1
Ingest	71%	10
Archival Storage & Preservation	89%	8
Data Management	50%	2
Access	43%	3
Preservation & Accessibility	67%	4
[General]	67%	6

eArchiving Capability Maturity Model Documents nad Tools

Excel File with Questionnaire



Thank you



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