

JSTOR | PORTICO | ITHAKAS+R

Protecting Future Access Now Models for Preserving Locally Created Content

By Amy Kirchhoff Archive Service Product Manager, Portico, ITHAKA

ALCTS Webinar April 27, 2011





Amy Kirchhoff Archive Service Product Manager Portico, ITHAKA

amy.kirchhoff@ithaka.org 609-986-2218







http://www.portico.org/alcts-webinar/



ITHAKA is a not-for-profit organization that helps the academic community use digital technologies to preserve the scholarly record and to advance research and teaching in sustainable ways.

We pursue this mission by providing innovative services that aid in the adoption of these technologies and that create lasting impact.



ITHAKA S+R

Ithaka S+R is a research and consulting service that focuses on the transformation of scholarship and teaching in an online environment, with the goal of identifying the critical issues facing our community and acting as a catalyst for change.



JSTOR is a research platform that enables discovery, access, and preservation of scholarly content.



Portico is a digital preservation service for ejournals, e-books, and other scholarly e-content.





PORTICO

Portico is among the largest community-supported digital archives in the world.

Working with libraries, publishers, and funders, we preserve ejournals, e-books, and other electronic scholarly content to ensure researchers and students will have access to it in the future.







PORTICO

Over 2,000 societies, and associations have committed content to Portico through 122 publishers agreements.

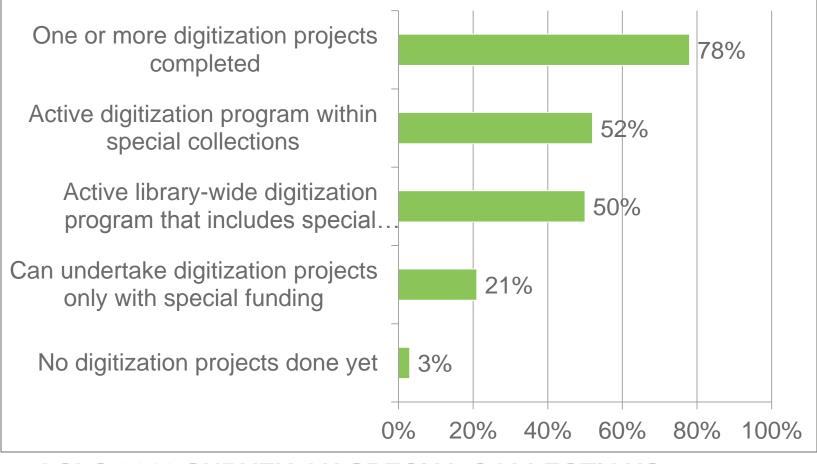
- » E-journal titles 12,142
- » E-book titles 73,298
- » D-collections 39





ANYONE CAN BE A PUBLISHER...





OCLC 2010 SURVEY ON SPECIAL COLLECTIONS, DIGITIZATION ACTIVITY



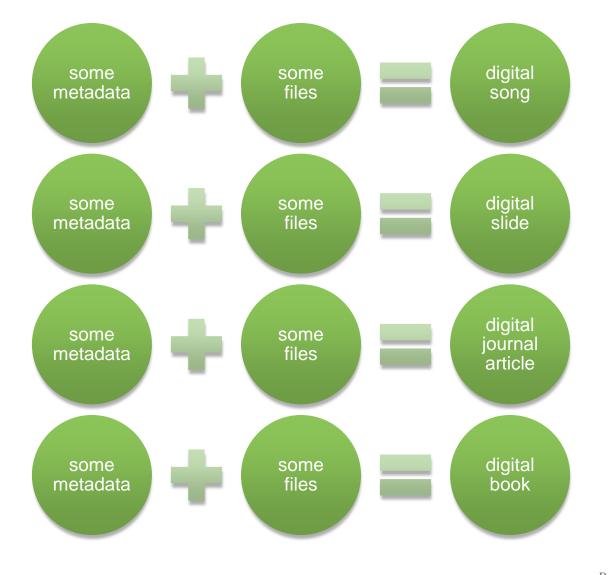
The NEH and IMLS awarded a grant to Portico, in partnership with Cornell University Library, through the "Advancing Knowledge: The IMLS/NEH Digital Partnership grant program" to develop a practical model for how preservation can be accomplished for digital content at cultural heritage organizations.

White Paper:

http://www.portico.org/presentations-publications/

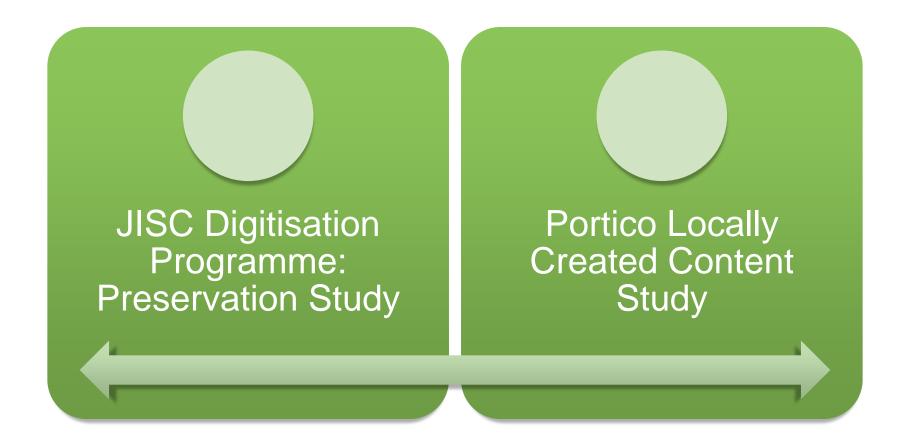


A Preservation Model









Many thanks to JISC and NEH for funding.



The IT department backs up the server, is that sufficient?

We make a tape backup every 3 months, are we covered?

The high resolution master files are on an external drive in Joe's office, is that OK?

Can we keep this collection safe without preserving it?

What will make this digital collection "safe enough"?



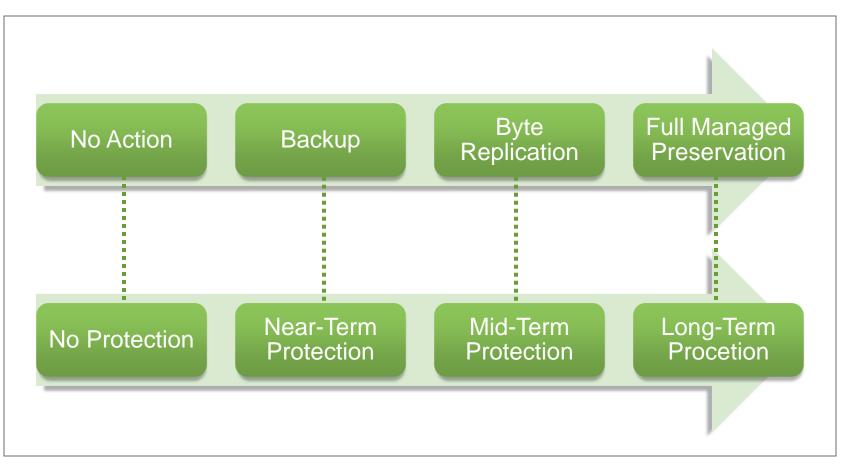
Reasonable Preservation Questions



IT DEPENDS...



Reasonable Preservation Questions



CONTENT PROTECTION CONTINUUM



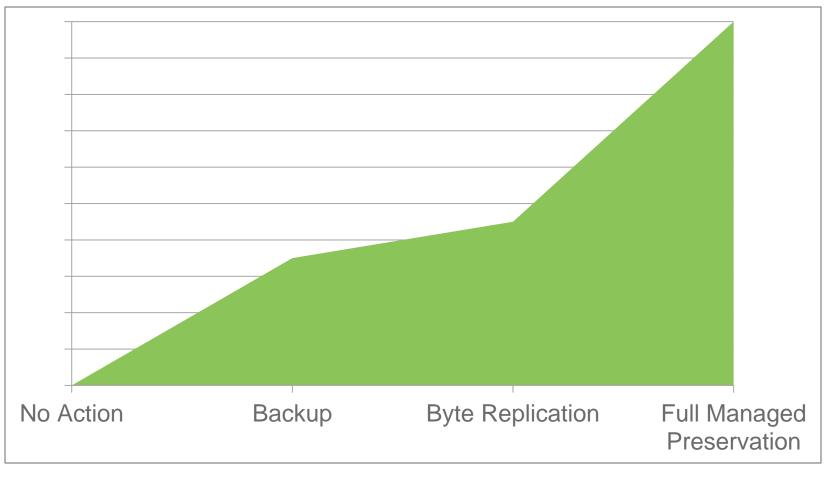
Н

Δ

JSTOR | PORTICO | ITHAKA S+R

ΚΑ

Reasonable Preservation Questions



CONTENT PROTECTION CONTINUUM II



Digital preservation is the series of management policies and activities necessary to ensure the enduring usability, authenticity, discoverability, and accessibility of content over the very long-term. The key goals of digital preservation include:

Usability

 the intellectual content of the item must remain usable via the delivery mechanism of current technology

Authenticity

• the provenance of the content must be proven and the content an authentic replica of the original

Discoverability

 the content must have logical bibliographic metadata so that it can be found by end users through time

Accessibility

• the content must be available for use to the appropriate community

FULL MANAGED DIGITAL PRESERVATION

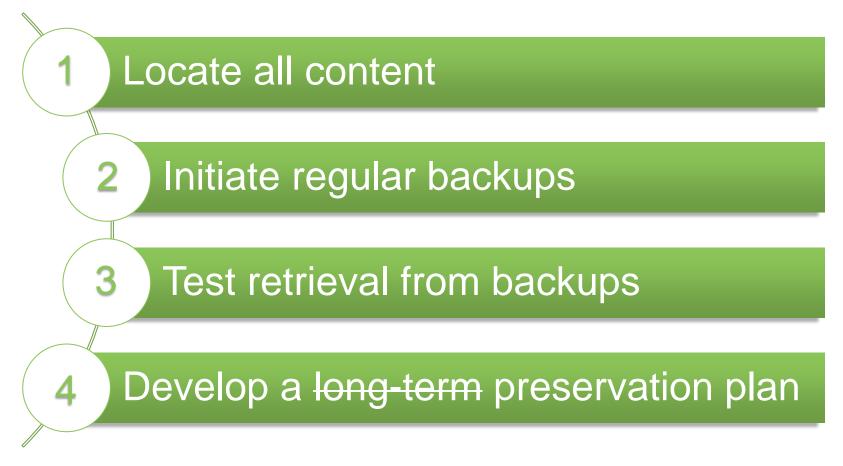




A NICE DEFINITION, BUT WHAT CAN ORGANIZATIONS DO RIGHT NOW?







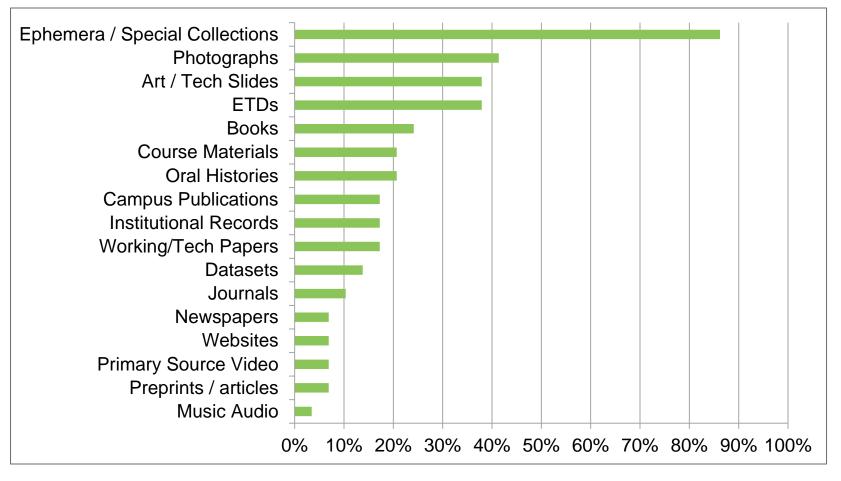




ANALYSIS FROM THE STUDIES







DIGITAL CONTENT CONSIDERED IN STUDIES

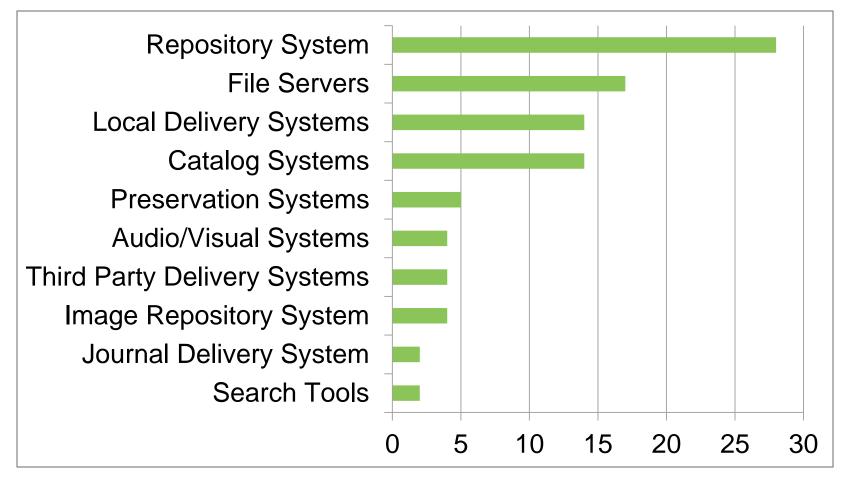


The 27 institutions, and at least 30 projects, reviewed were using:









COUNT OF INDIVIDUAL INSTANCES OF TYPES OF SYSTEMS IN USE ACROSS ALL ORGANIZATIONS

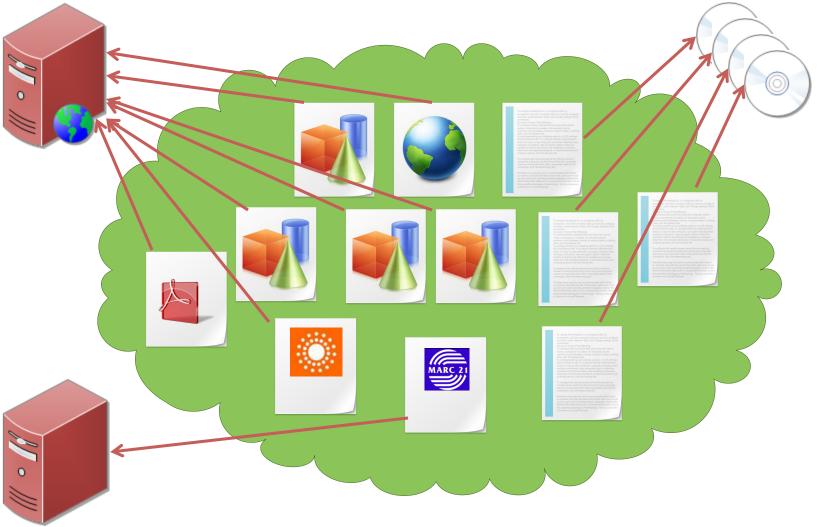






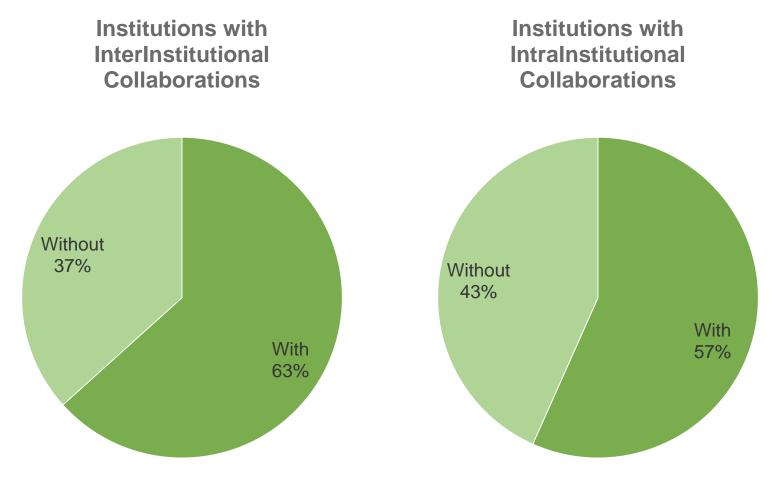








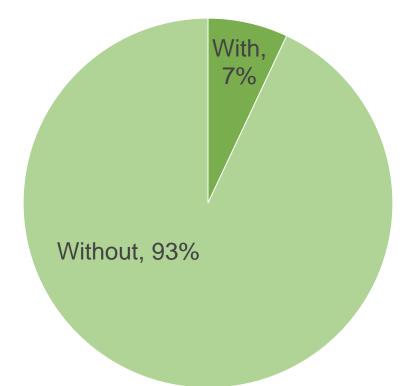
I T H A K A



COLLABORATION







INSTITUTIONS WITH AND WITHOUT PRESERVATION POLICIES



The size of a cultural heritage organization is neither a predictor for risk nor amount or quality of digital content.

Many cultural heritage organizations do not have staff to support either preservation or access systems in-house.

Cultural heritage organizations would benefit from a turn-key solution that provides both access and preservation for a large variety of formats and content types.

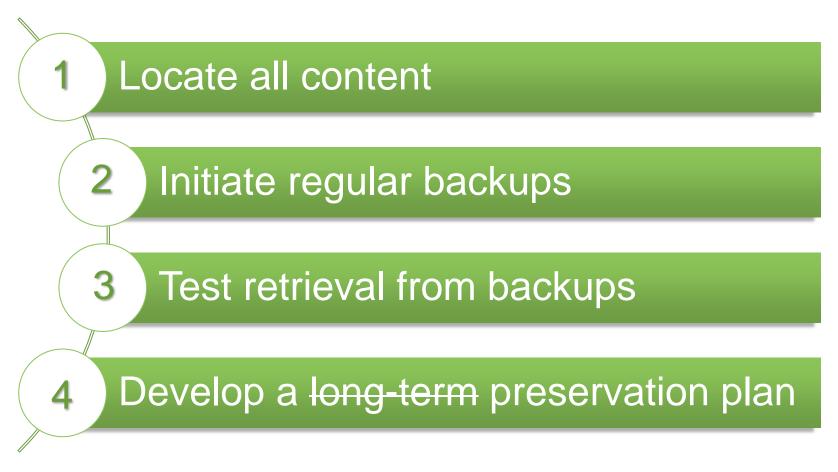
Cultural heritage organizations do not often have a sustainability plan associated with their digital content. The digital content is not considered a product that must be sustained, it is considered another outlet for their special collections.





INITIAL STEPS TO PROTECT CONTENT







PRESERVATION (OR PROTECTION) PLANNING

Who: Identify the key players involved with long-term preservation of the targeted content

What: Describe or characterize the collection and content

3

Where: Document the locations of all the copies of the content and metadata.

When: Document the targeted preservation timeframe and impact of loss.

How: Document how the key content management and preservation tasks will occur.









Initial Steps to Protect Content









Initial Steps to Protect Content



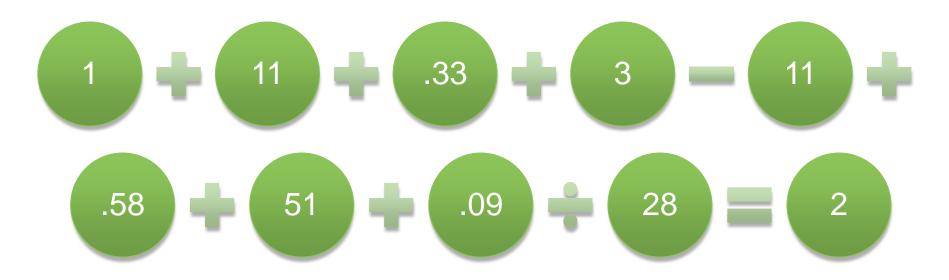




Initial Steps to Protect Content



CALCULATING A BACKUP SOLUTION 1 + 1 = 2



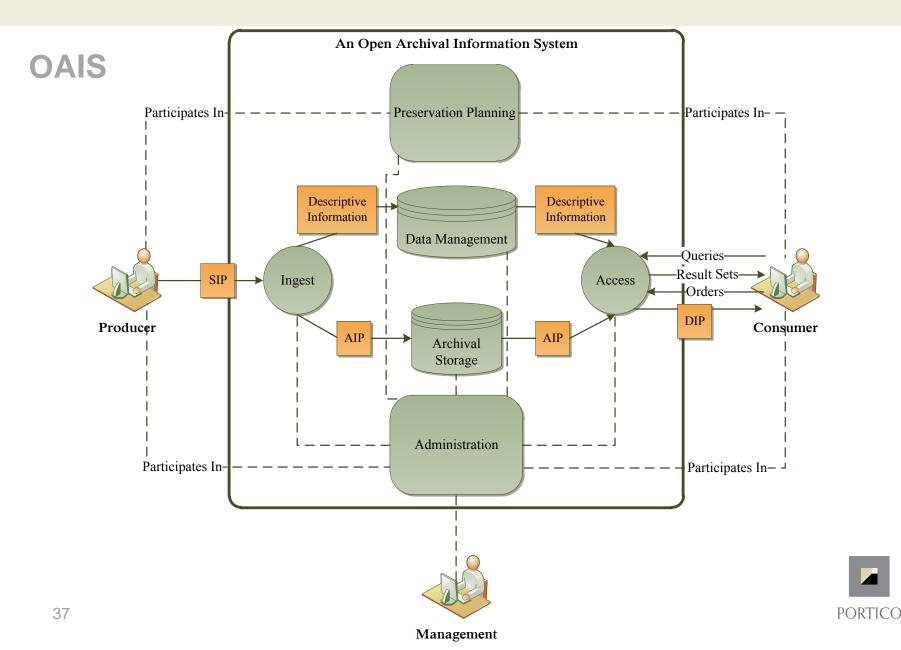




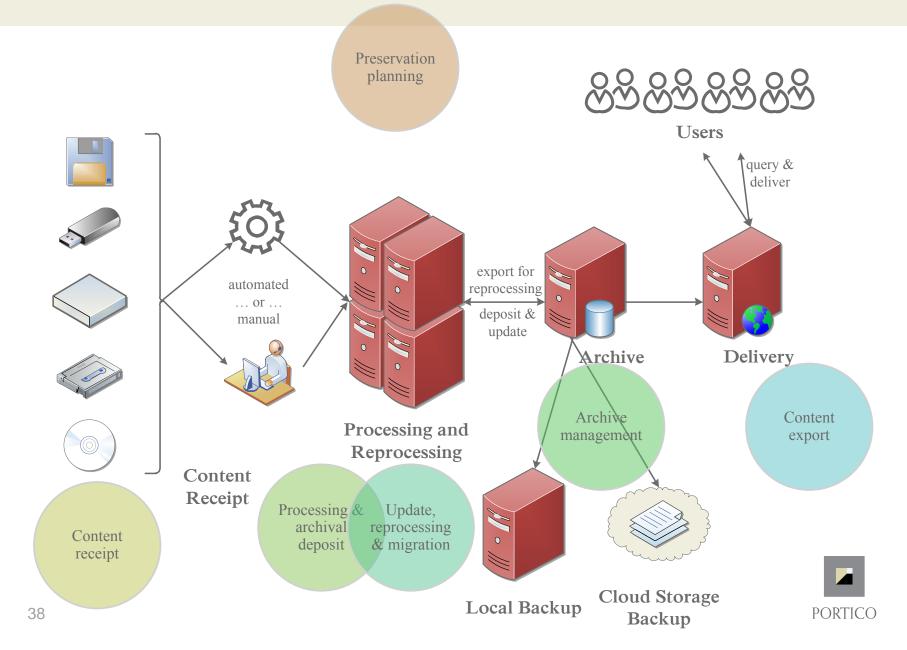
PRESERVATION

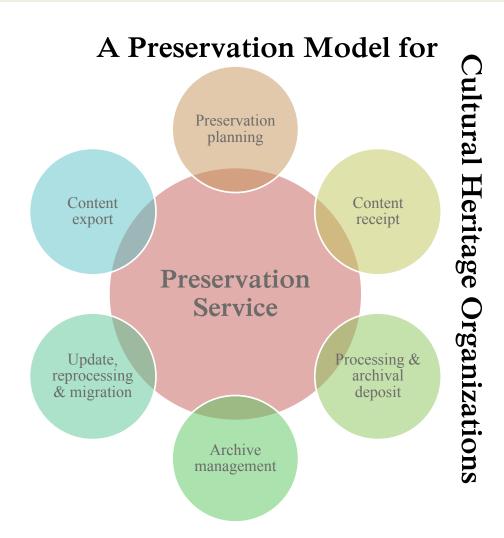


36



I T H A K A







I T H A K A

Will the software meet your input throughput needs? Will it meet your batch or otherwise loading needs?

SELECTING SOFTWARE

Will the software meet your output throughput needs?

How complicated is the software to manage? Do you have appropriate staff to both install the software and maintain it over time?

Will the software capture the preservation metadata you have identified as necessary in your policies?

Can the software support maintaining the original master versions of your content files and the web-ready versions of your content files side-by-side with the metadata for the files?

Can the software export the original master version of your content files with the metadata for those files?

How much does the software cost initially? Consider both internal costs such as staff time and external costs.

How much will it cost to maintain? Consider both internal costs such as staff time and external costs such as licensing fees.







COMMUNITY MONITORING

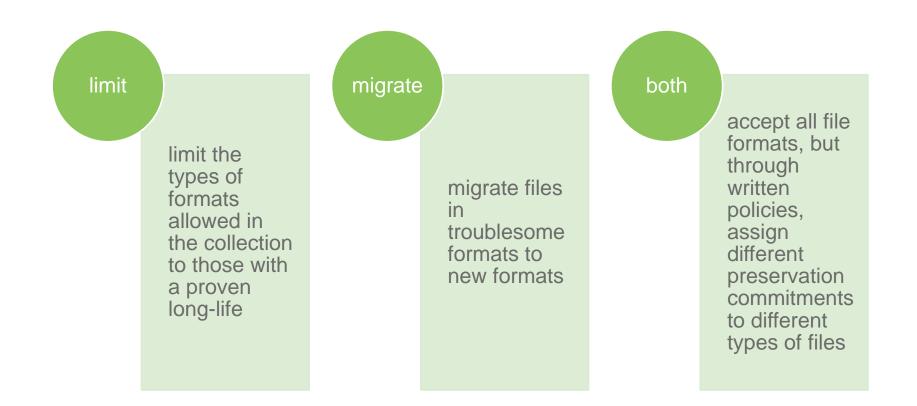
the community of file format experts

the community of preservation experts

your content provider community

your designated user community





CONTENT FORMATS



< Preservation Policy Title>

1. Policy Statement

- 1.1. <Paragraph 1 in high level policy statement>
- 1.2. <Paragraph 2 in high level policy statement. This section should be short, but accurate and to the point. It should provide guidance to operations staff as they do their jobs.>

2. Implementation Examples

- 2.1. <Example 1>
- 2.2. <Example 2 examples should describe practical decisions made based upon this policy.>

3. Document History

- 3.1. Approved by: <Name of approver>
- 3.2. Last Review Date: <Date policy was last approved>
- 3.3. Reviewed by: <Names of people who reviewed the document at ita last review date>
- 3.4. Change history:

Version	Date	Change	Author
<version #></version 	<date finalized></date 	<highlight changes="" document="" made="" the="" to=""></highlight>	<author changes="" of="" the=""></author>
<version 2>*</version 	<date finalized></date 	<highlight changes="" document="" made="" the="" to=""></highlight>	<author changes="" of="" the=""></author>

* An approved version of this document.

PRESERVATION POLICIES



I T H A K A

digital some some metadata files song digital slide some some metadata files digital some some journal metadata files article digital book some some metadata files

METADATA & PACKAGING





METADATA & PACKAGING













Preservation and Packaging Metadata File









METADATA & PACKAGING

PACKAGING & PRESERVATION METADATA

- The intellectual unit represented by this metadata file is a digitized book.
- It was scanned by Joe on this date.
- It was ingested into the repository on this other date.
- Jane Smith granted us preservation rights to it on this other date.

....



A Preservation Model

Preservation and Packaging Metadata File

METADATA & PACKAGING

PACKAGING & PRESERVATION METADATA











- The intellectual unit represented by this metadata file is a digitized book.
- It was scanned by Joe on this date.
- It was ingested into the repository on this other date.
- Jane Smith granted us preservation rights to it on this other date.



Preservation and Packaging Metadata File

METADATA & PACKAGING

PACKAGING & PRESERVATION METADATA

- These TIF files are page images.
- The TIF file named XYZ is page 1. It is a valid TIF and has a checksum of 123456.
- The TIF file named ABC is page 2. It is not a valid TIF and has a checksum of 78910.

....

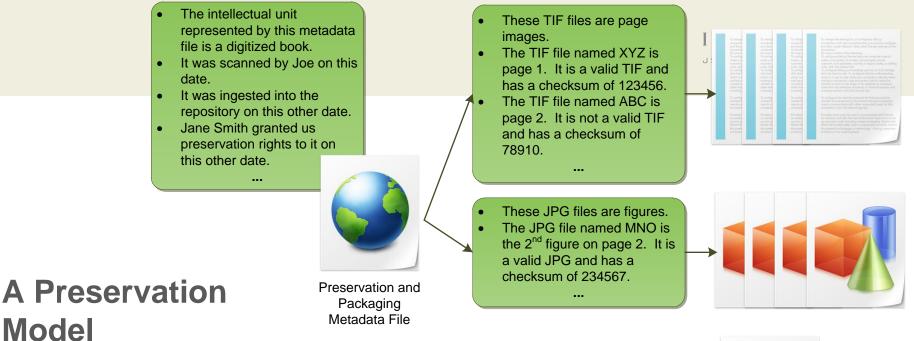












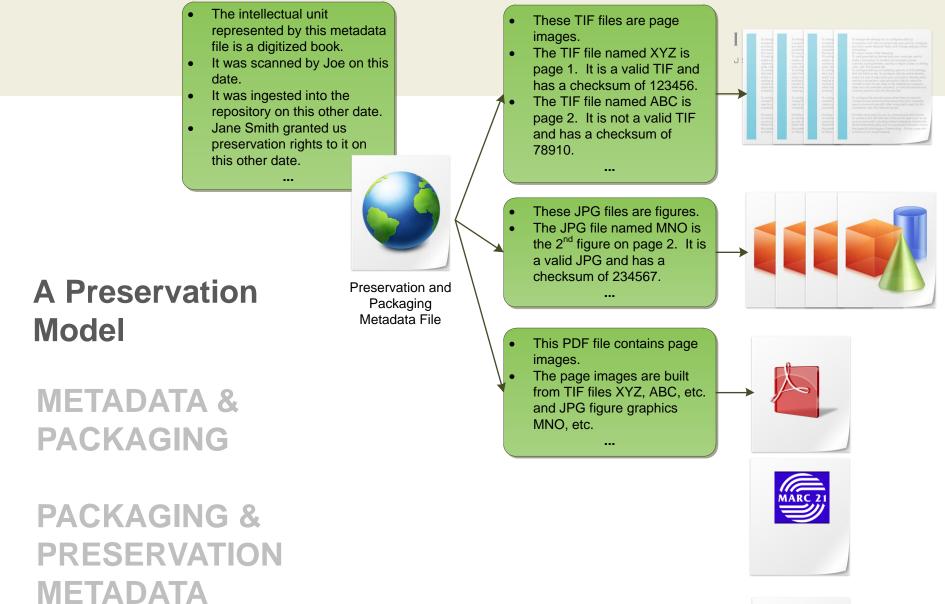
METADATA & PACKAGING

PACKAGING & PRESERVATION **METADATA**

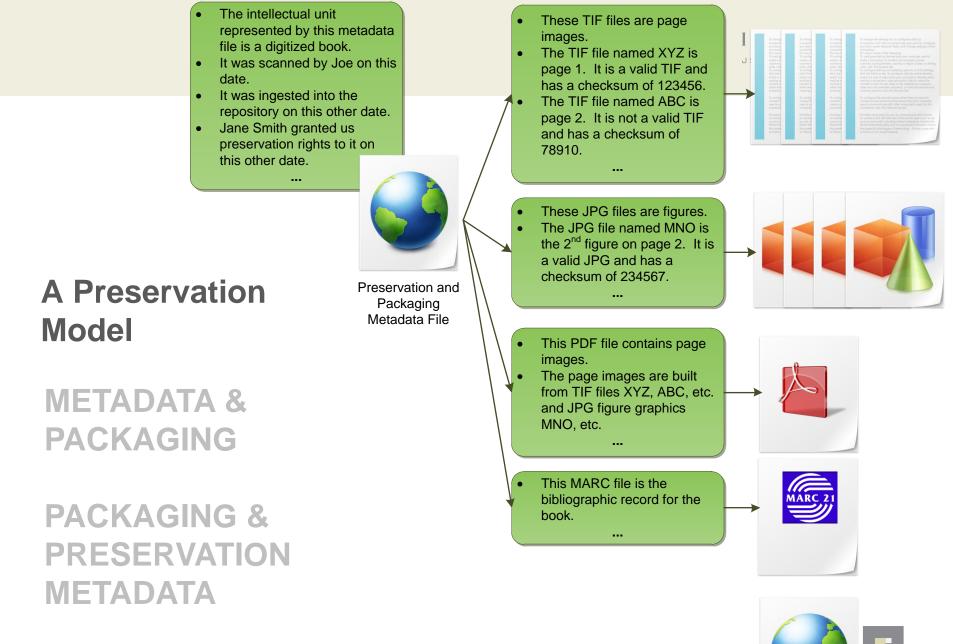






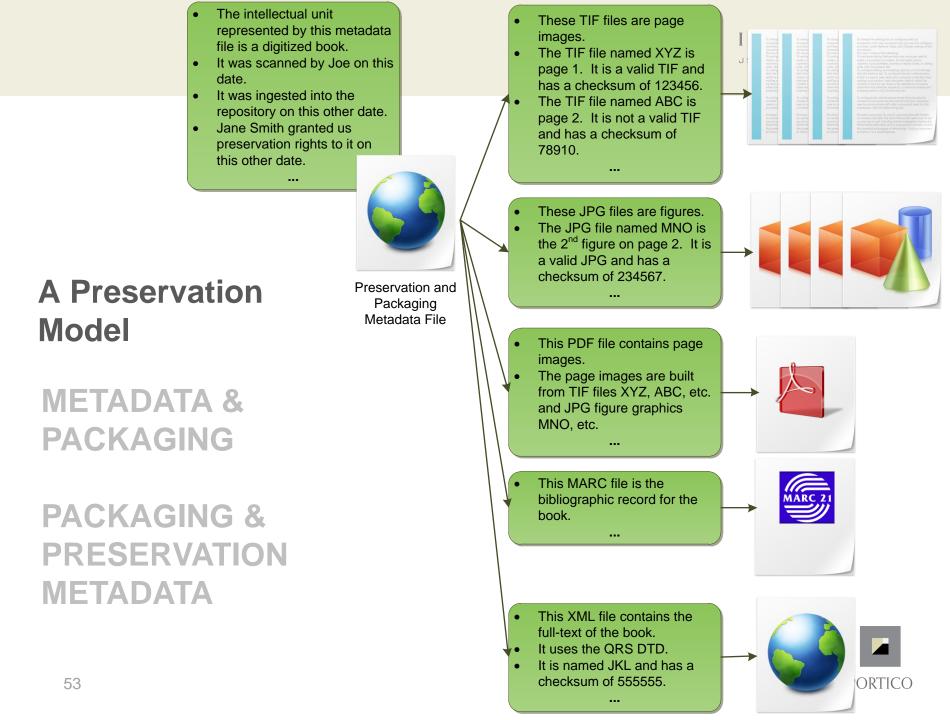


ORTICO

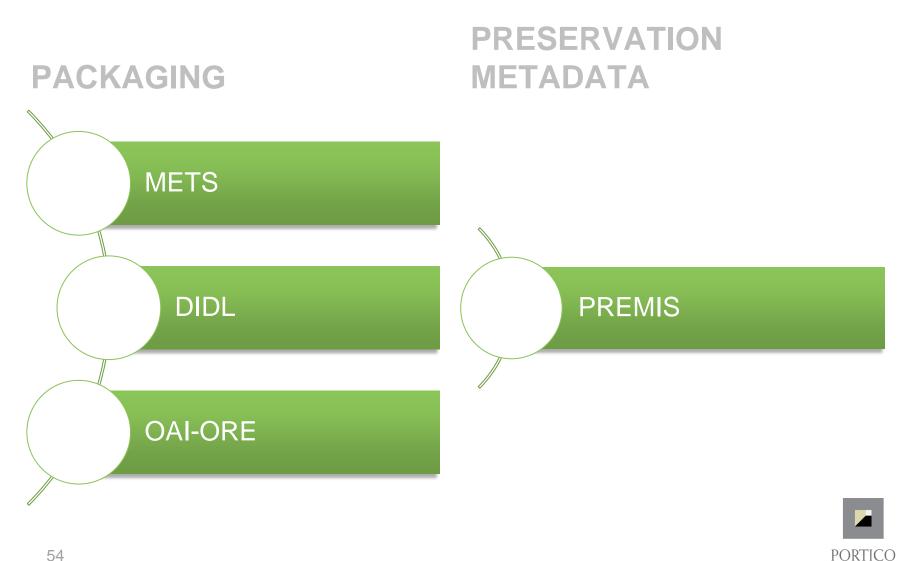


ORTICO





ΗΑΚΑ Т JSTOR | PORTICO | ITHAKAS+R



Access rights are not preservation rights

Get preservation rights at the point of deposit

Document preservation rights in the preservation metadata

Tricky area – embedded content

Tricky area – research and privacy rights

RIGHTS







COSTS



Allowing sponsorship of the collection

Permitting advertising on the collection

RECOVERING COSTS

Encouraging donations to support the collection

Building an endowment

Creating premium services for purchase, the revenues from which can subsidize the preservation service.

Enlisting support from funding bodies, scholarly and professional societies, and publishers

Charging for access to the collection and using the revenue to subsidize the preservation costs.

Charging for participation in the preservation service

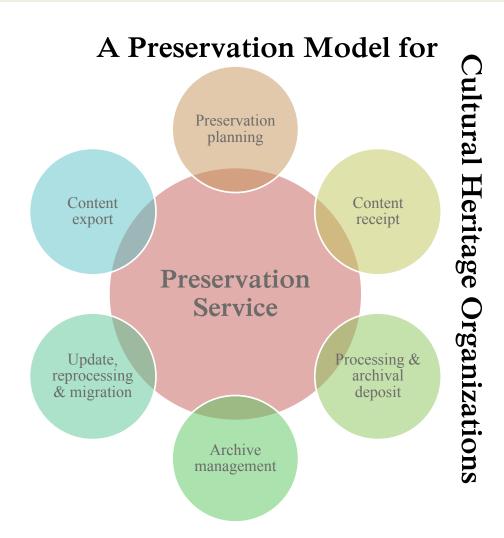
Relying upon support from a parent organization or government





ORGANIZATIONAL MODEL











THANK YOU.

Amy Kirchhoff amy.kirchhoff@ithaka.org

PORTICO

http://www.portico.org

