



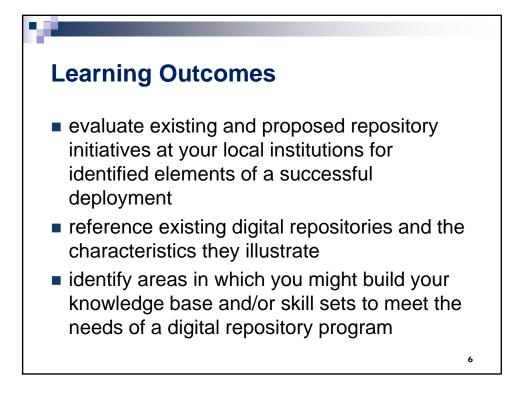


## DAS Cocre Competencies This course contributes to the following DAS Core competencies: 1. Explain the nature of digital records and their lifecycle. 2. Communicate and define terminology, requirements, roles, and responsibilities related to digital archives to a variety of stakeholders. 3. Formulate strategies and tactics for appraising, acquiring, describing, managing, organizing, preserving, and delivering digital archives. 4. Incorporate technologies throughout the archival lifecycle. 5. Strategically plan for the sustainability of digital archives. 6. Employ standards and best practices in the management of digital archives. 7. Design a defined set of services for designated community

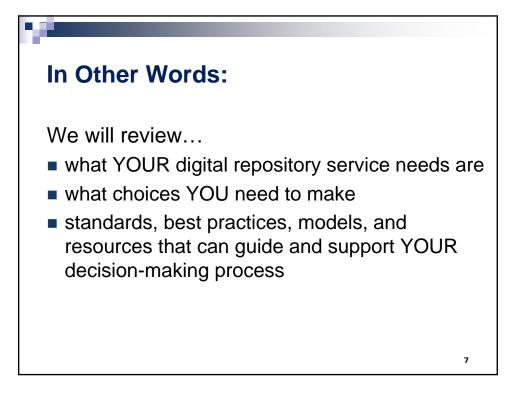


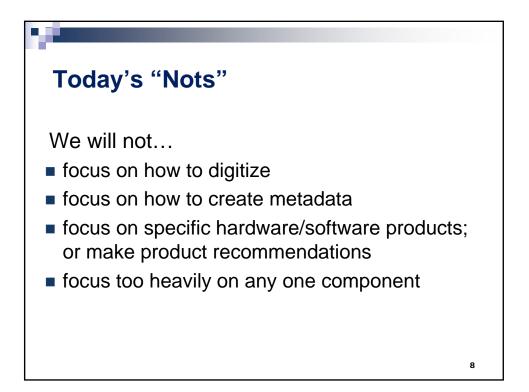
At the end of this course, you should be able to:

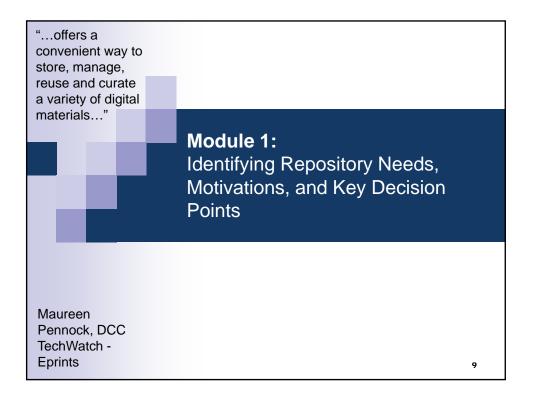
- explain the basic decisions underlying the development of a digital repository program
- differentiate between the components necessary to implement a viable digital repository service

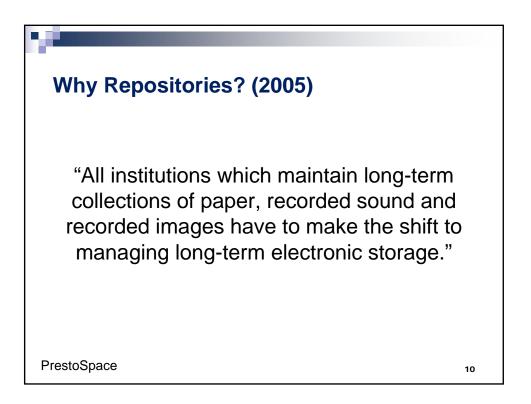


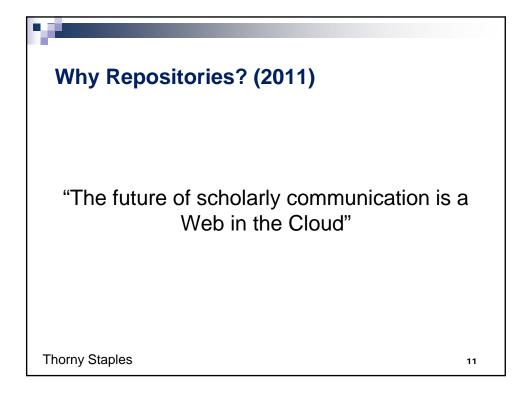
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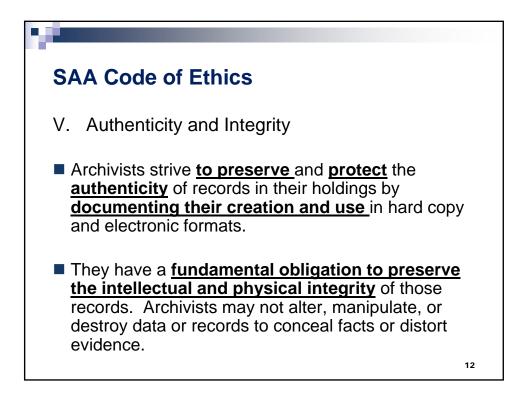


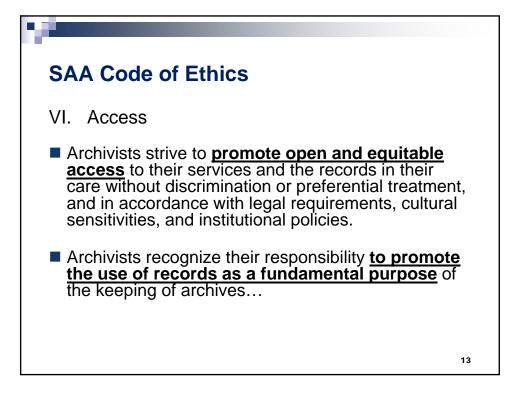


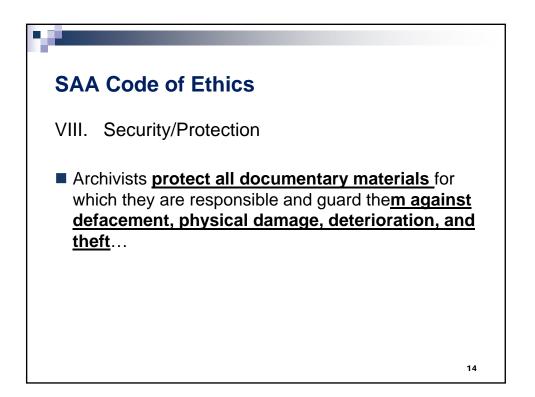


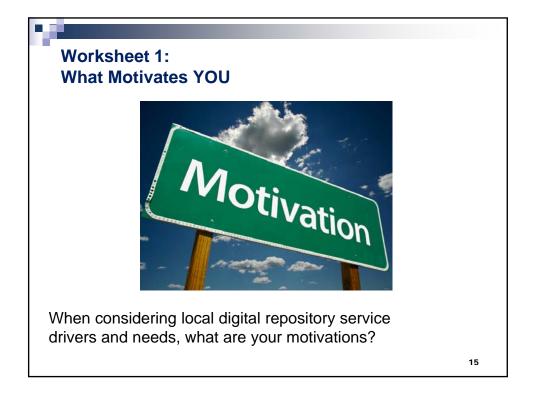












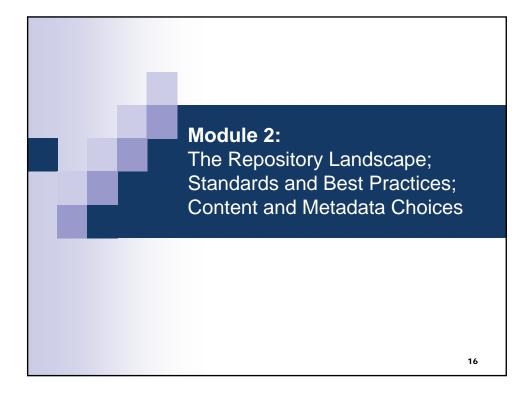
## Worksheet 1: What Motivates YOU?

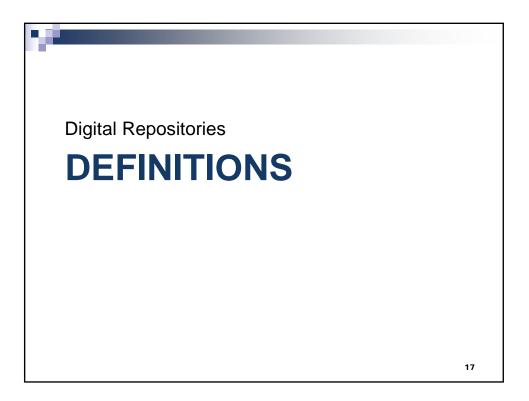
As the archivist (or other information professional) in charge of a digital repository service, you need a clear understanding of the needs and motivations driving your initiative.

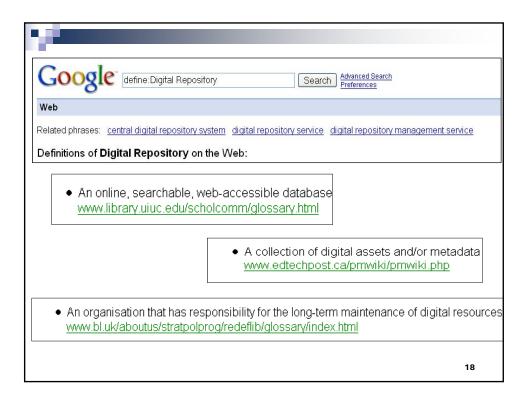
This exercise begins to build YOUR digital repository profile, by considering the following:

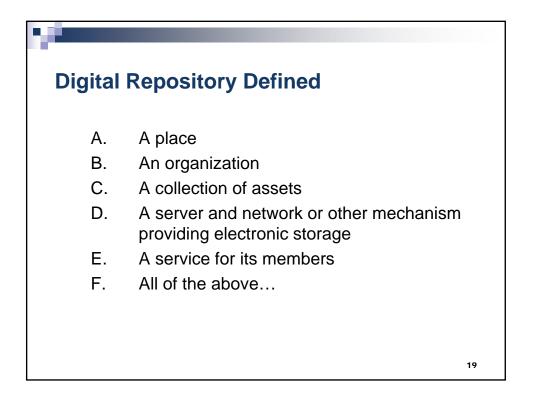
- What are YOUR motivations for developing a digital repository?
- Which ones are MOST important to your institution, your mission, and your values? Why?
- Which ones do you consider to be LESSER motivations? Why?

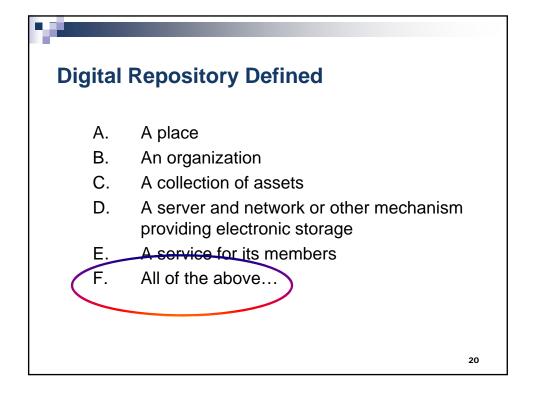
Motivator	Value: High	Value: Medium	Value: Low
<b>Convenience:</b> Digital objects in central storage are easy to access and manage			
Management: A system that is not dependent on operating systems or file systems			
Access and Use: Interoperability and integration in other contexts			
Authenticity: Verifiable and certifiable			
Security: Access controls, rights and usage management			
<b>Preservation:</b> Durability and authenticity over the very long term			
Other:			

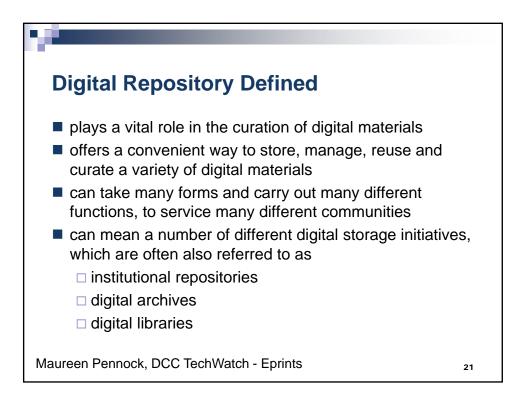


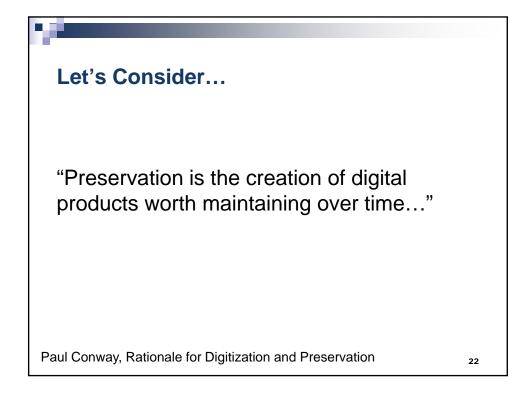


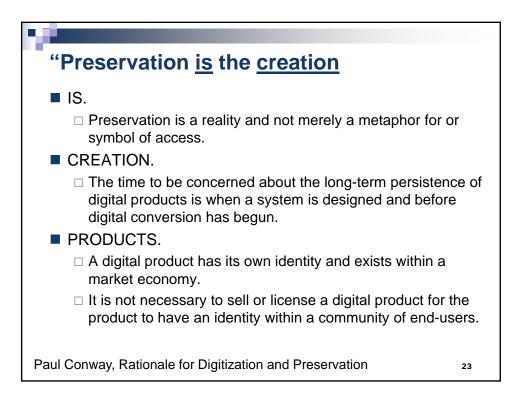




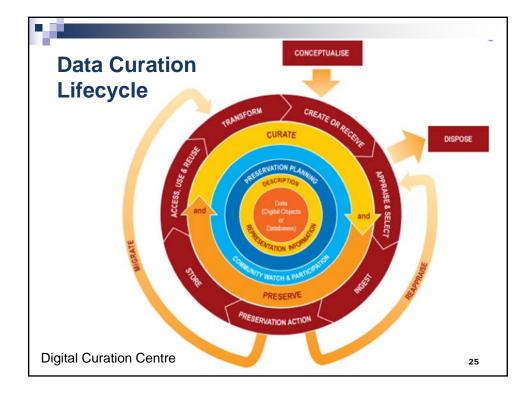


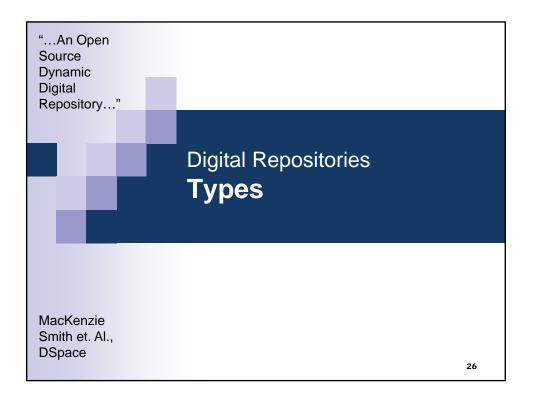


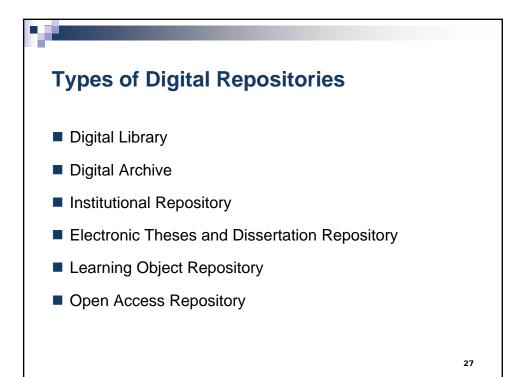


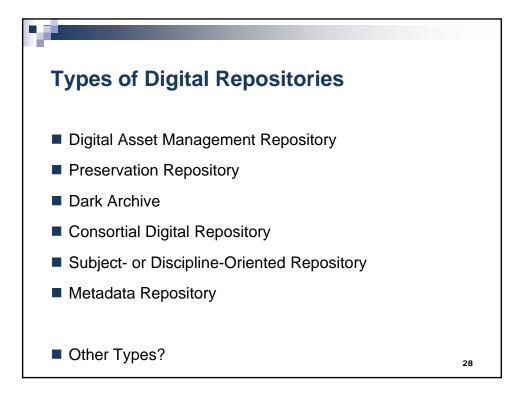


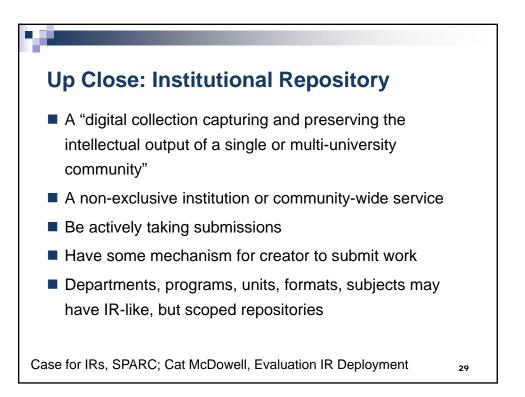




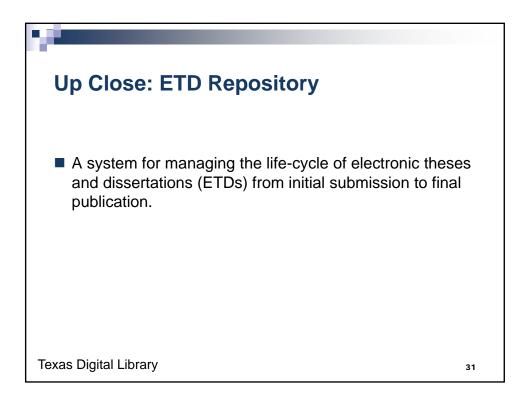




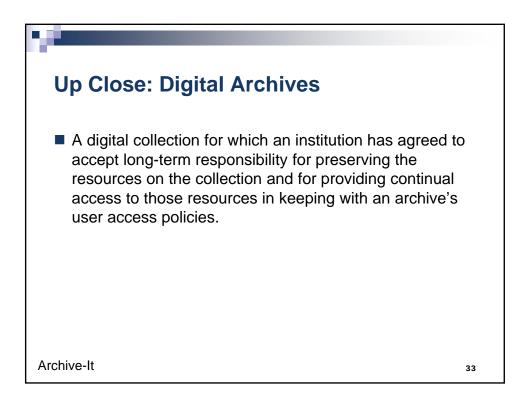


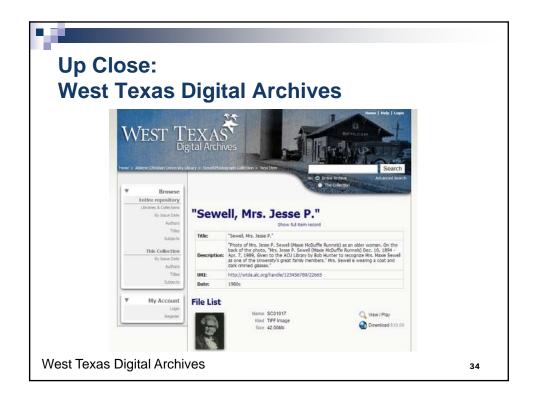


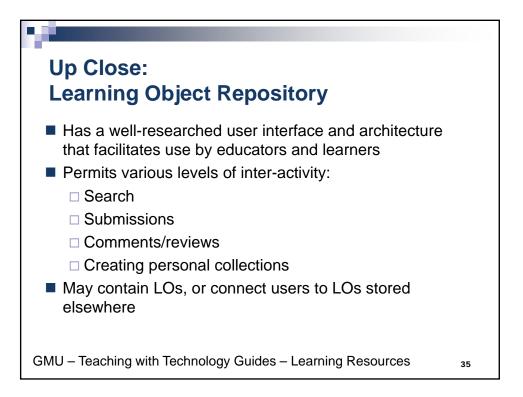
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Separater.		Simon plays Simon says: The timing of turn daking in an imitation game	Chao, Crustel: Lee, Johan: Bedum, Monotaz: Lee, Johan	Proceedings; Post-print
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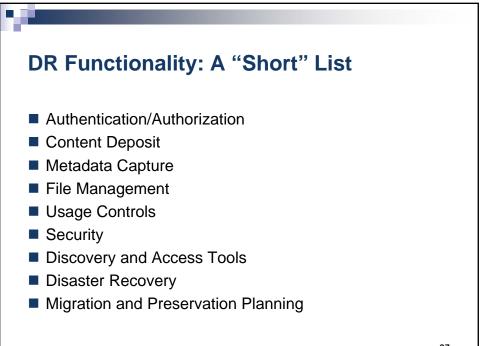
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Emory U	<u>@ 2008 Emory University</u> , Version 1.12 updated 10/2011. <u>Sights and Privileass</u>   <u>Access Statistics</u>	32



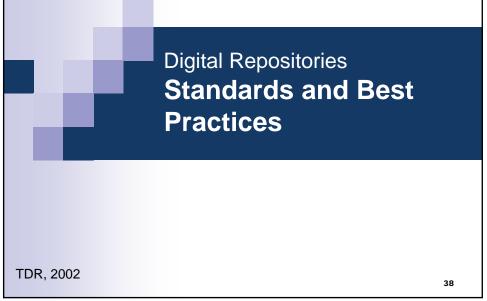


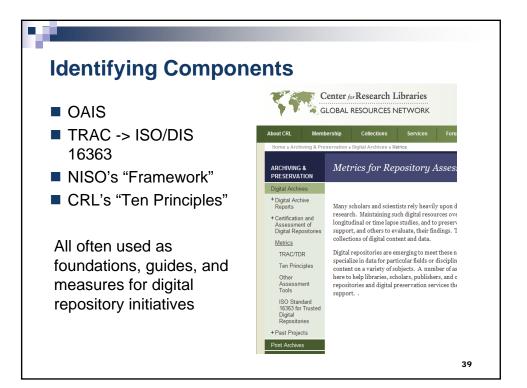


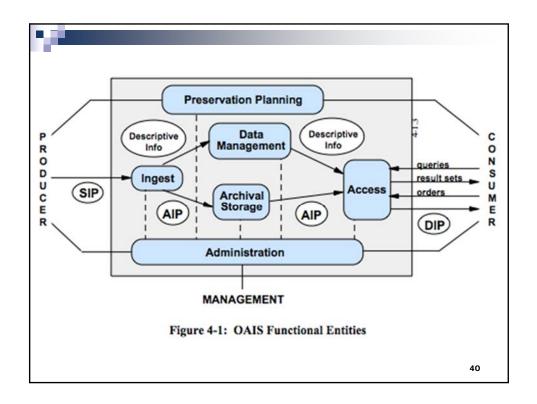
Up Close:	MERLOT	
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	Searching Using AND, OR, NOT (Boolean	Peer Review (1)****
Technology Literacy (8) Intellectual Property and Plagiarism (1) Library Specialties (1)	Searching) Author: Michelle Mach This brief Flash tutorial teaches students the basics of	COMPASS
Intellectual Property and Plagiarism (1)	Author: Michelle Mach This brief Flash tutorial teaches students the basics of using AND, OR, and NOT to combine terms when	Personal Collections (17)
Intellectual Property and Plagiarism (1) Library Specialties (1)	Author: Michelle Mach This brief Flash tutorial teaches students the basics of	COMPASS Personal Collections (17) Learning Exercises (none)

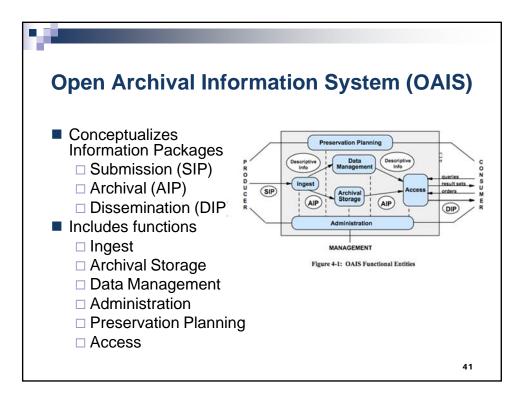


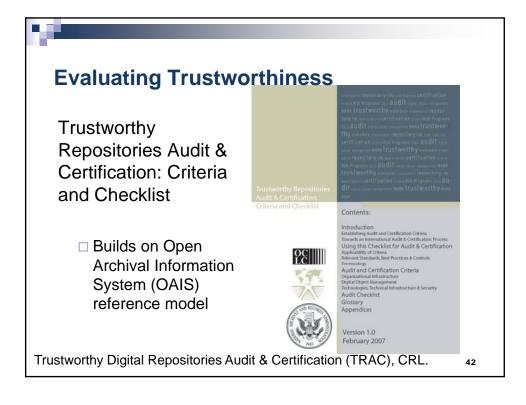
"At the very basic level, the definition of a trusted digital repository must start with "a mission to provide reliable, long-term access to managed digital resources to its designated community, now and into the future"



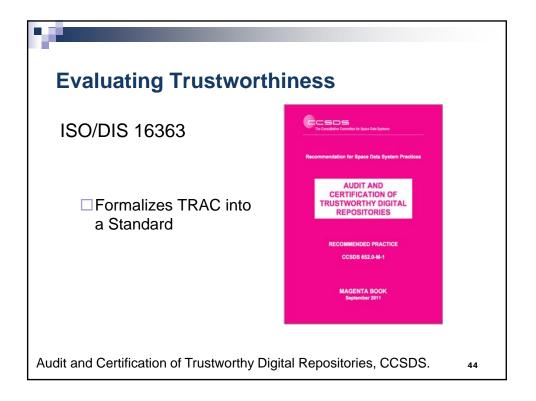


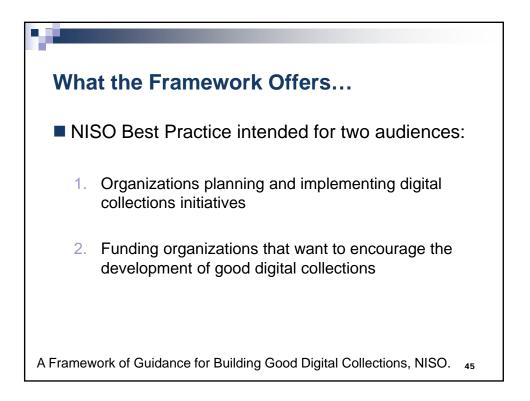


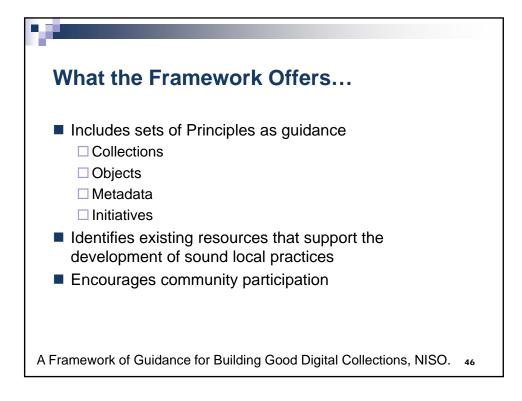


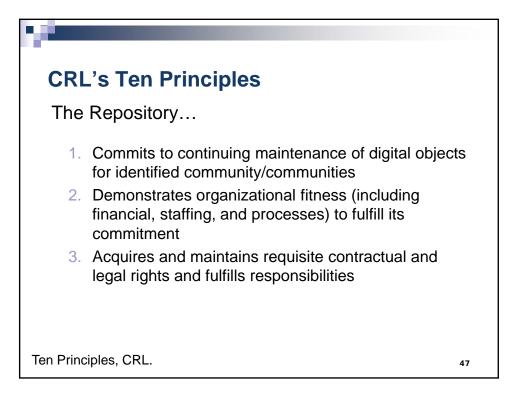


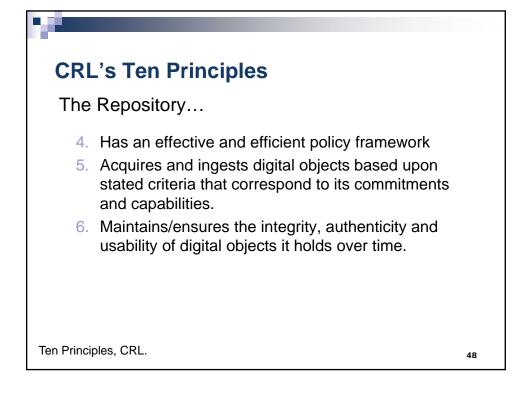


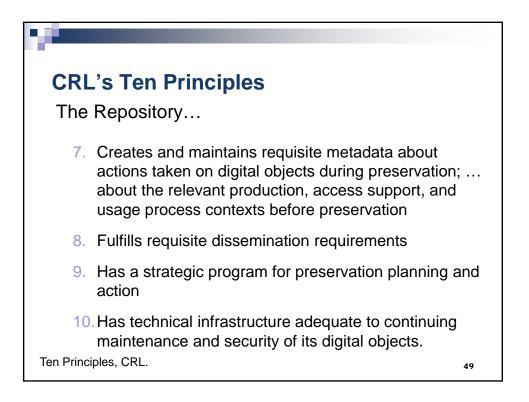


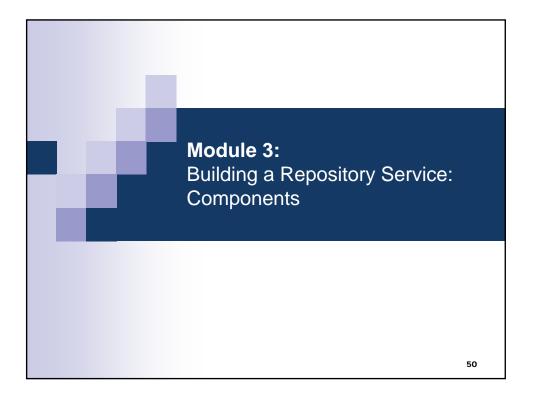


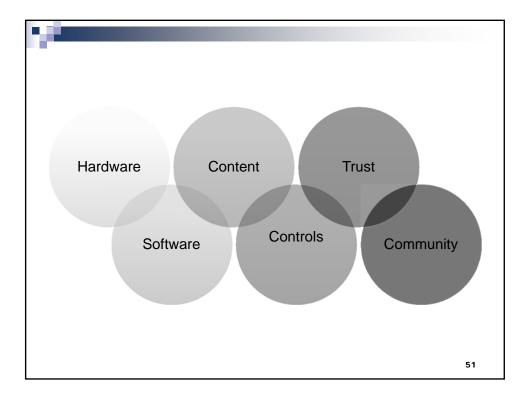


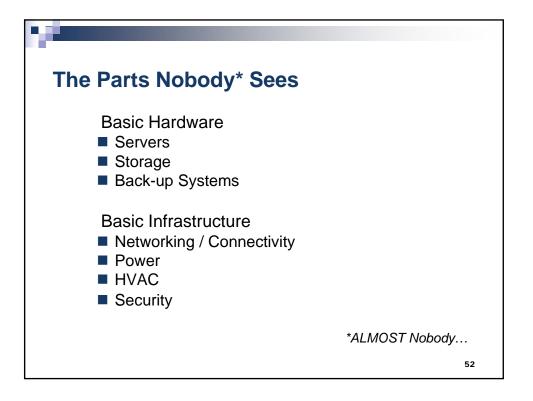


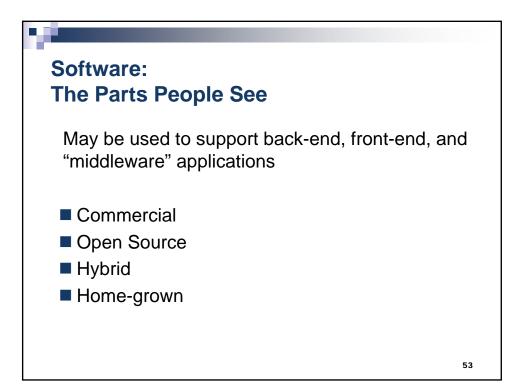


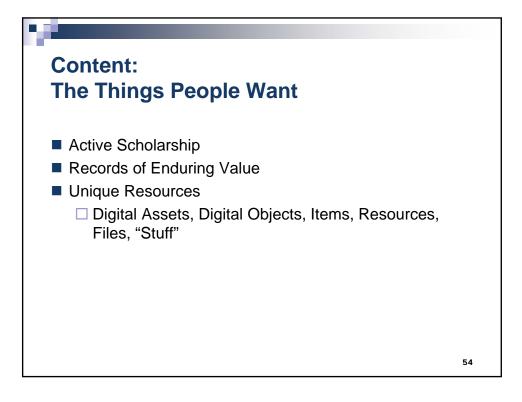


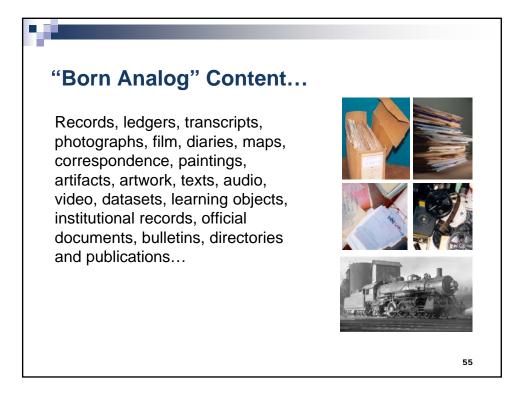




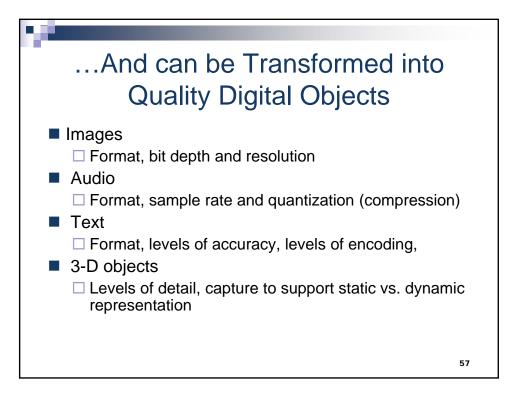


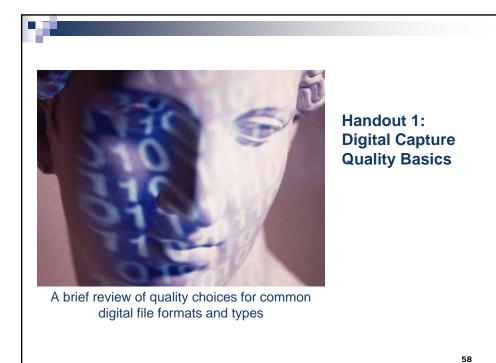






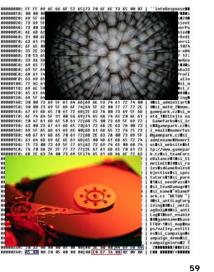


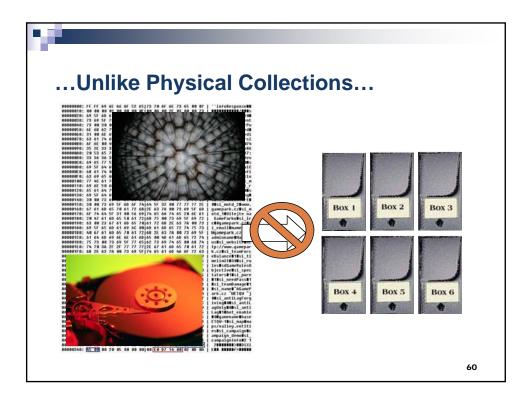


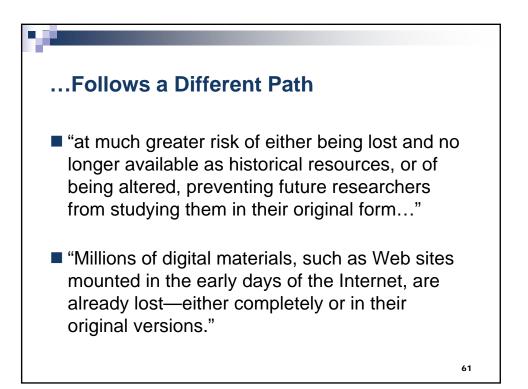


## "Born Digital" Content...

Electronic records and documents, digital audio, digital video, digital still imagery, datasets, multimedia works, online publications, web sites, interactives, blogs, wikis...

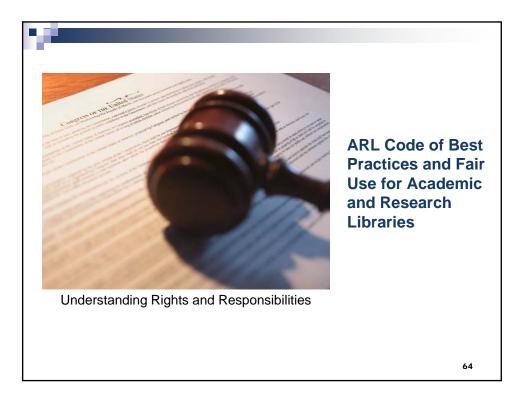


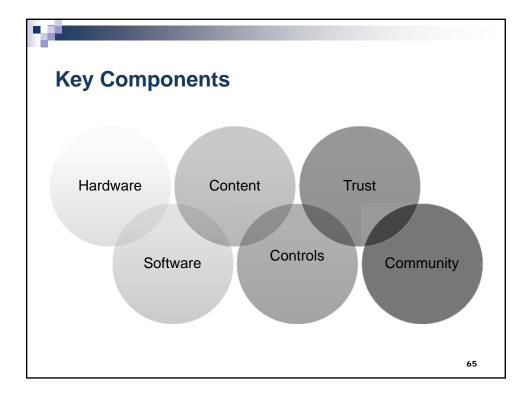




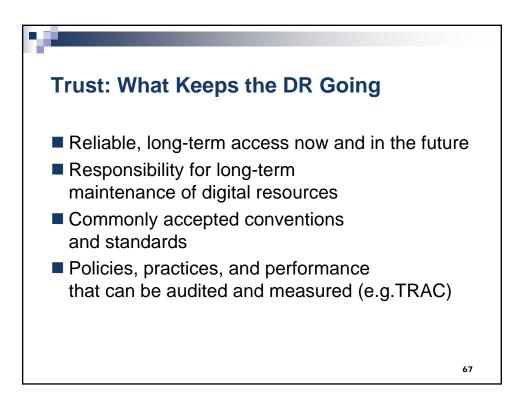
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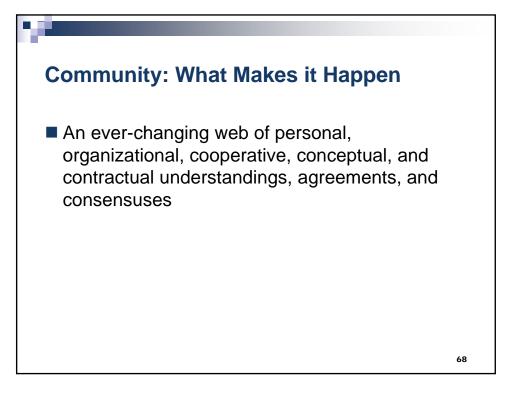


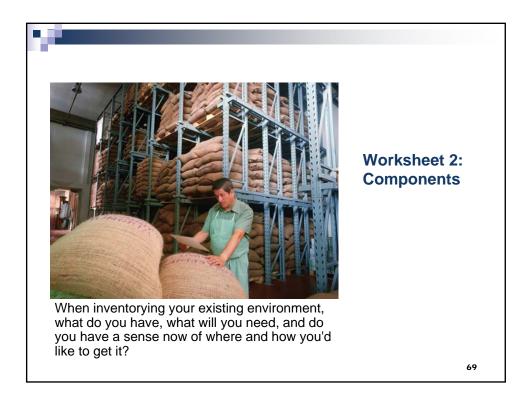










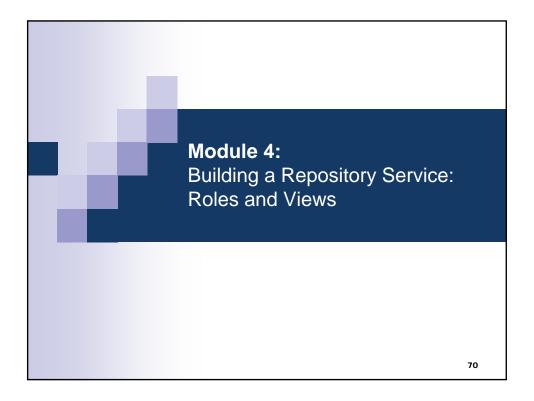


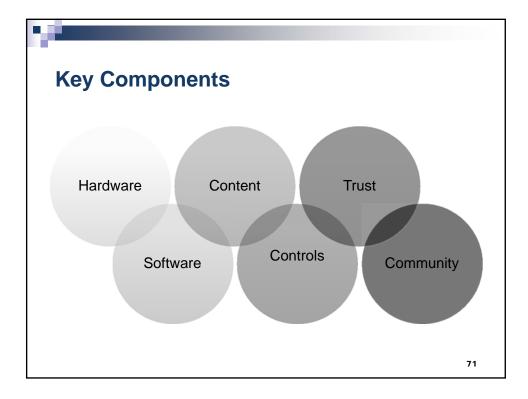
### Worksheet 2: YOUR Component Inventory

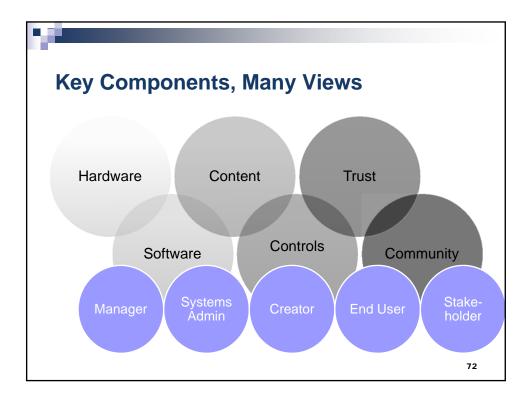
This exercise expands YOUR digital repository profile, by identifying the following:

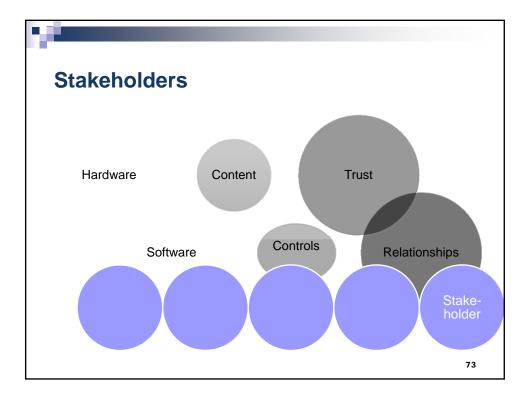
- What pieces and parts are already in place
- Who manages them
- What access do you have (or could have) to these resources

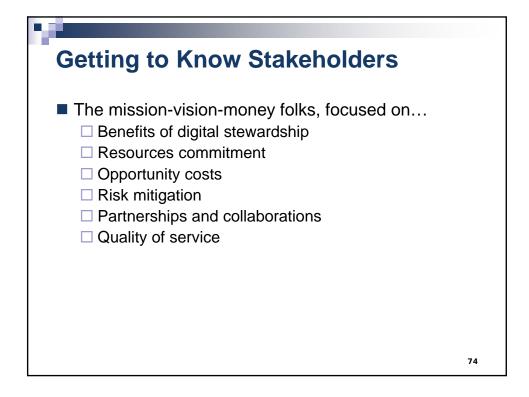
Component	Comments
Hardware:	
Servers, storage, backup, network, connectivity	
Software:	
Proprietary, open source, cloud services, homegrown	
Content:	
Born digital, born analog, digitization ready analog, metadata	
Community:	
Organizational support, user communities, funders and advocates	
Controls:	
Policies, administrative metadata	
Trust:	
Organizational reputation	

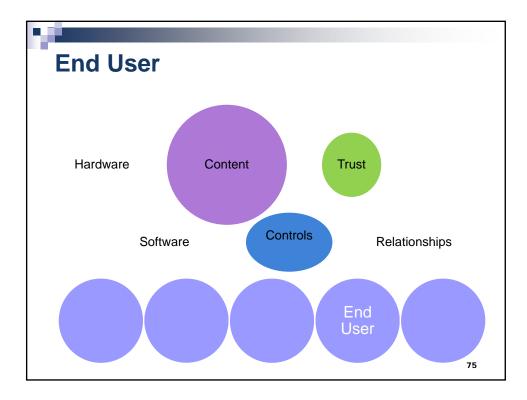












# **End Users**

Want information quickly, with a minimum of fuss

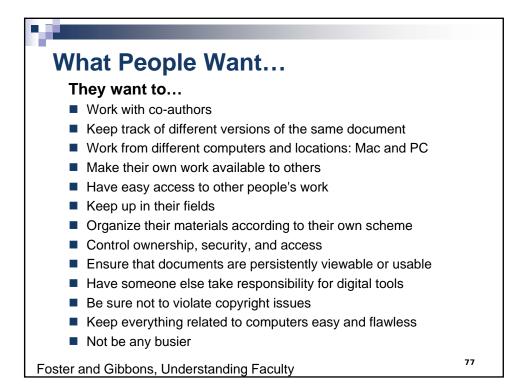
Willing to use free information and trust it just as much as for-fee information

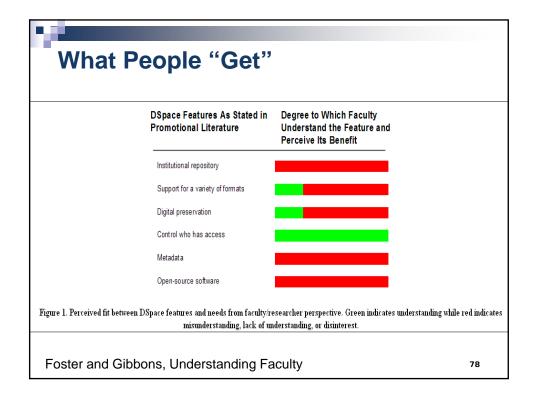
Are unlikely to know of digital repository initiatives, especially beyond their "communities"

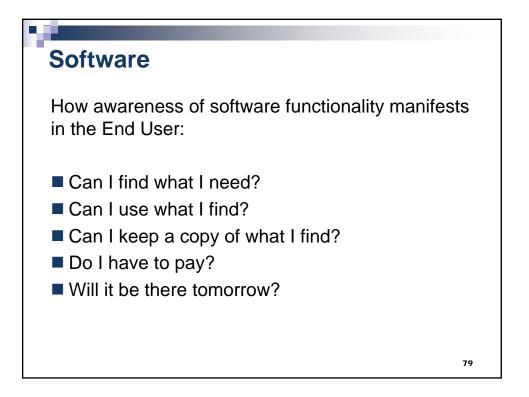


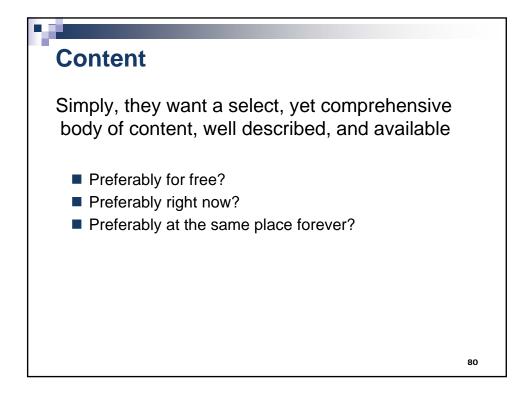
 YOU are an End User
 Potentially, everyone you know is an End User

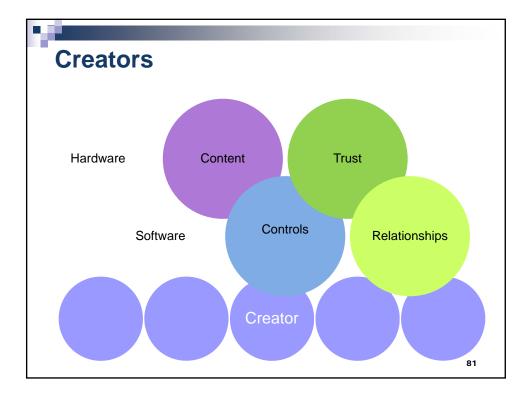
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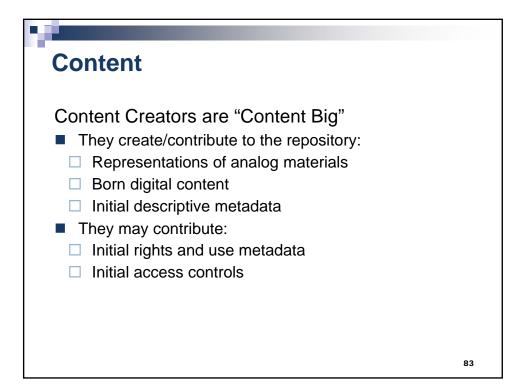




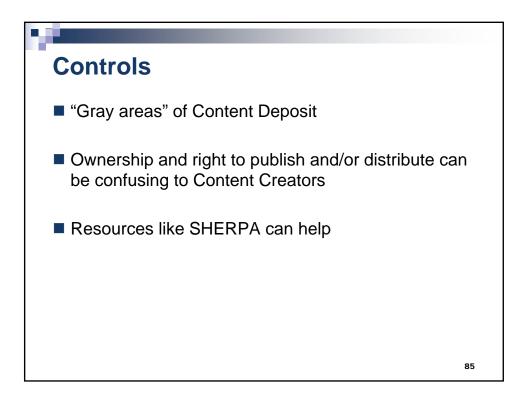


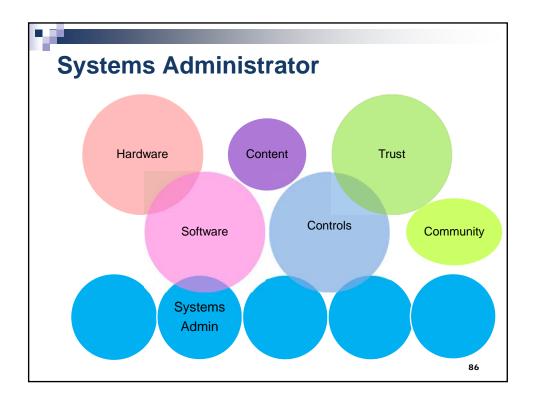




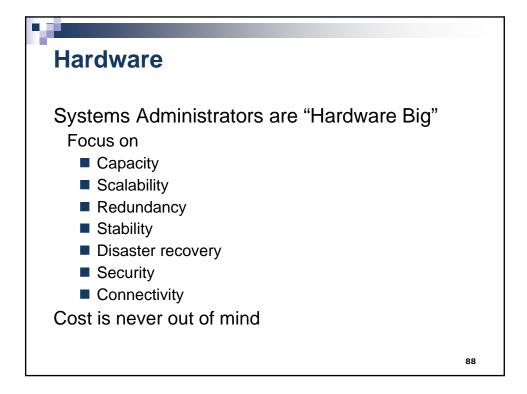


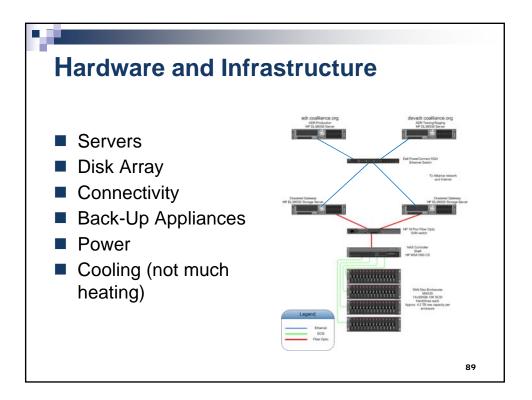


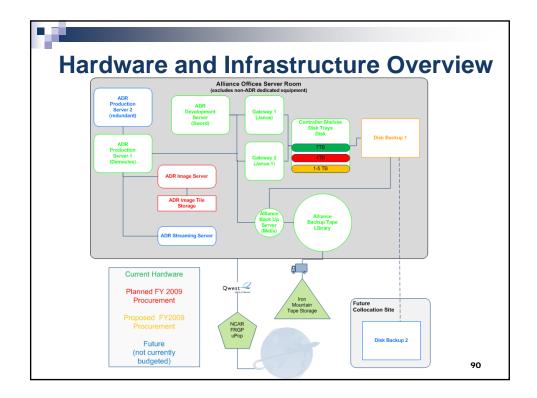




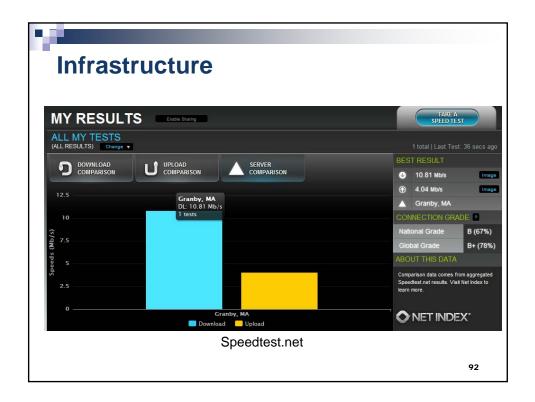


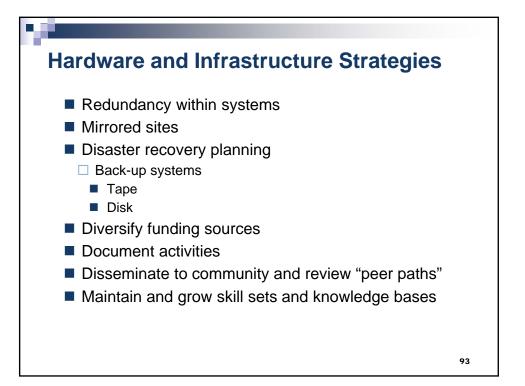


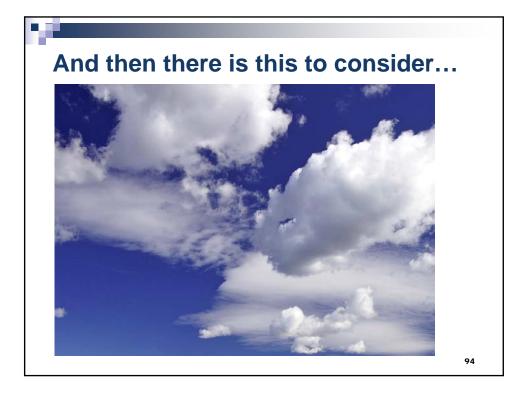




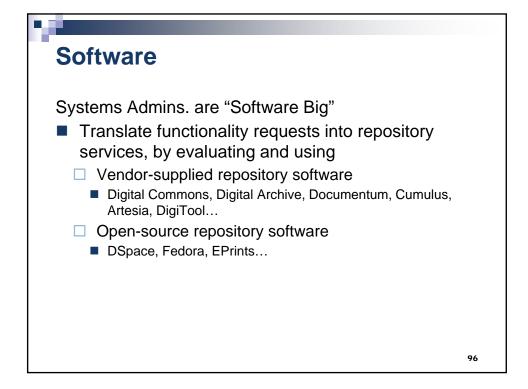


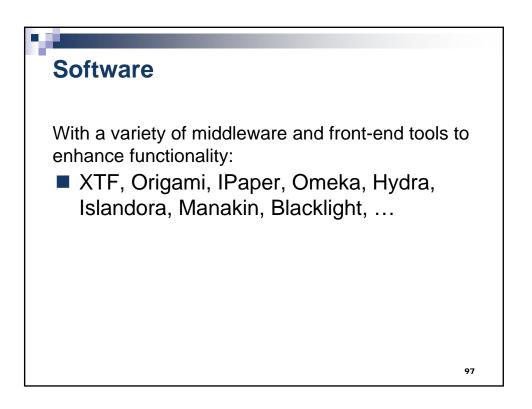


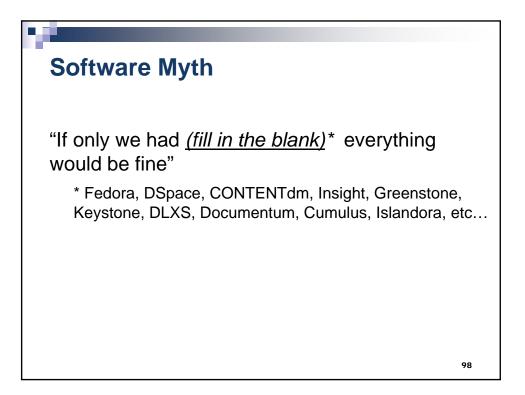


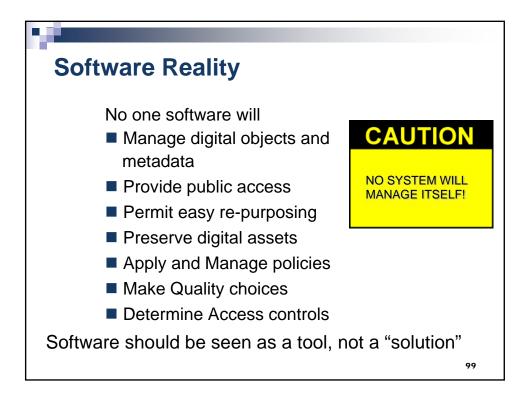


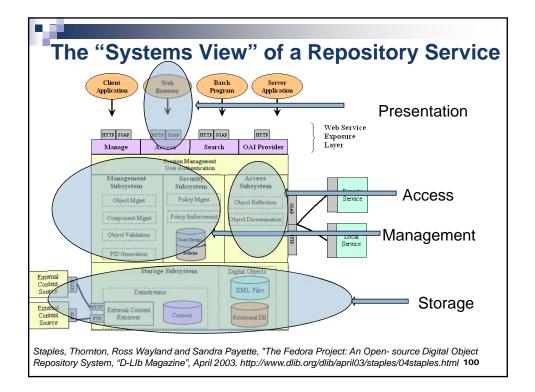


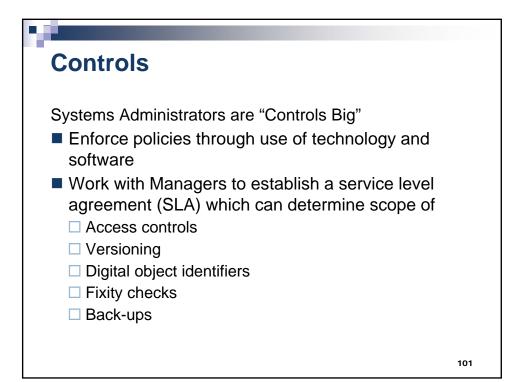








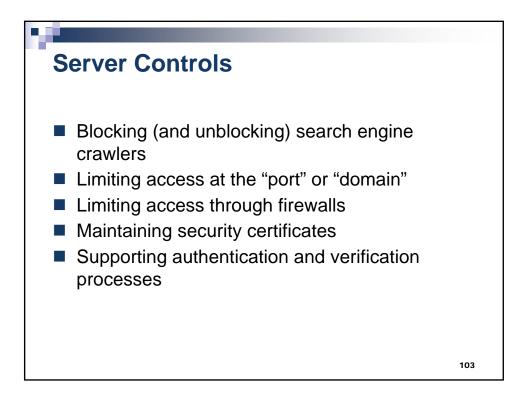


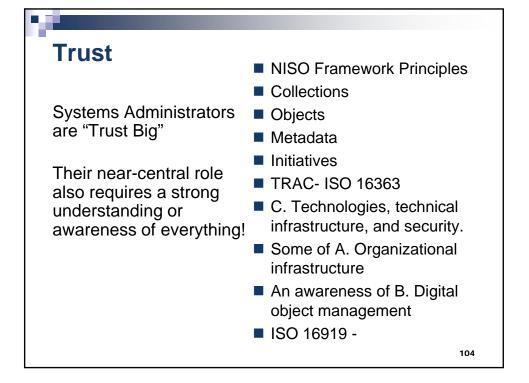


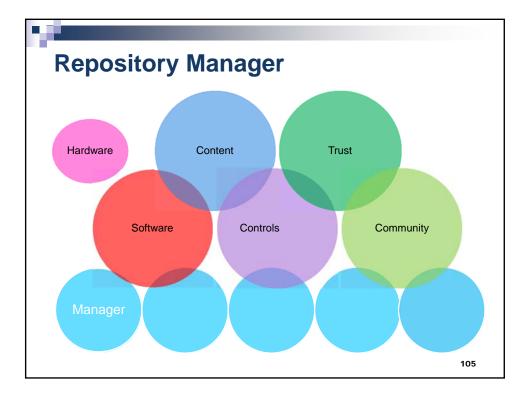


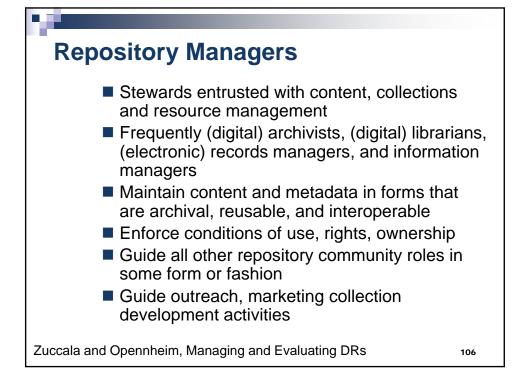
Systems Administrators use creator, manager, and software generated metadata to programmatically apply and enforce controls

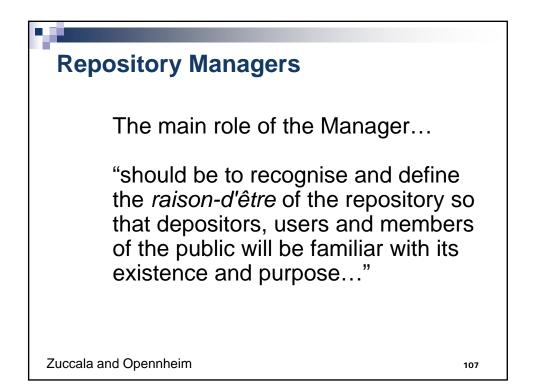


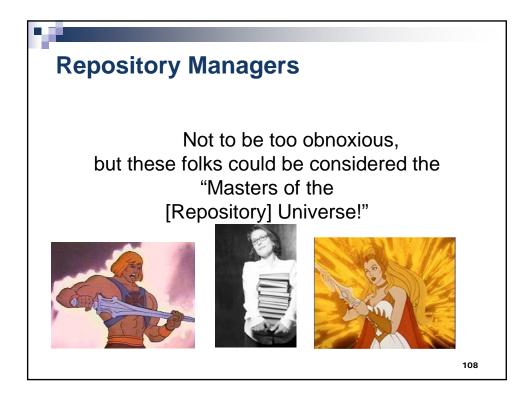


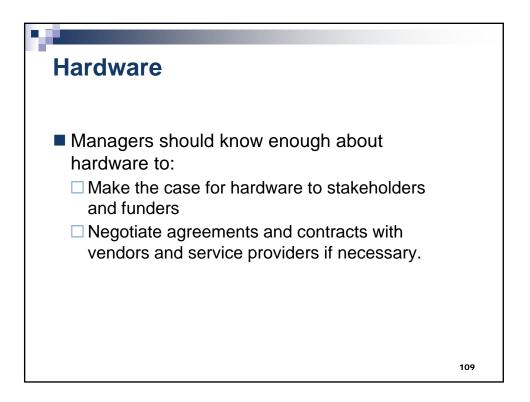


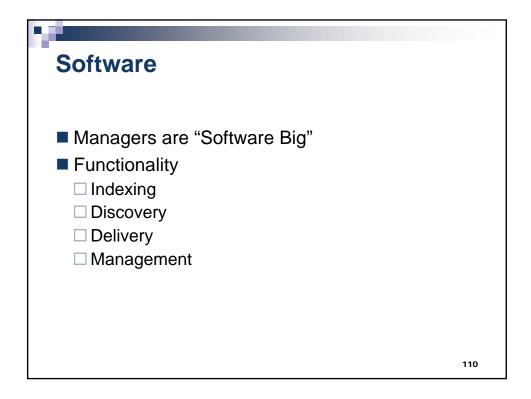


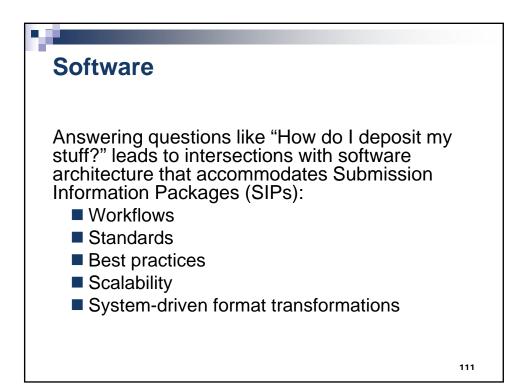


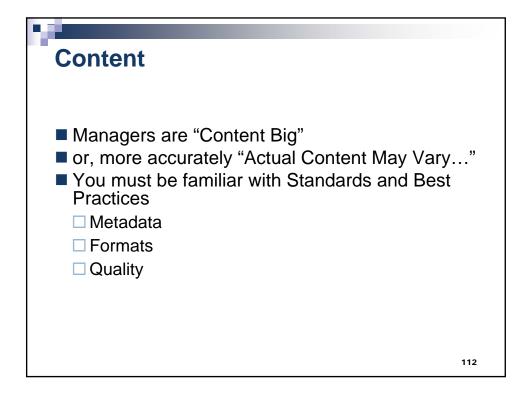


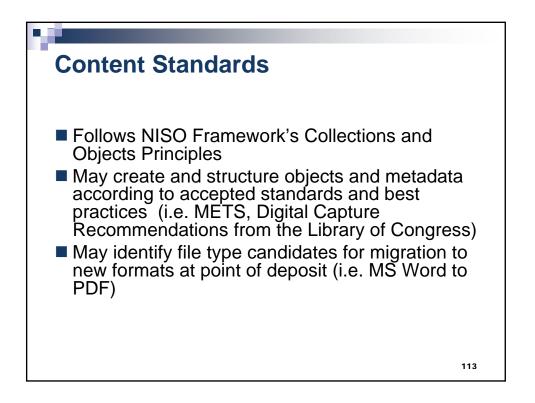


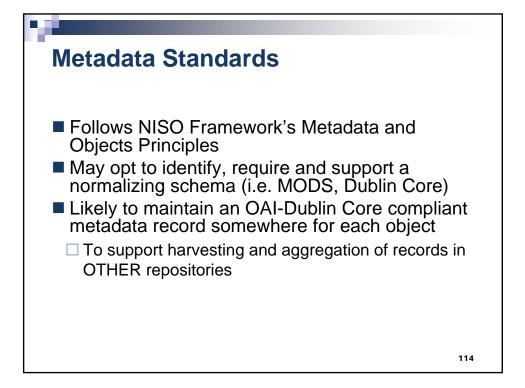


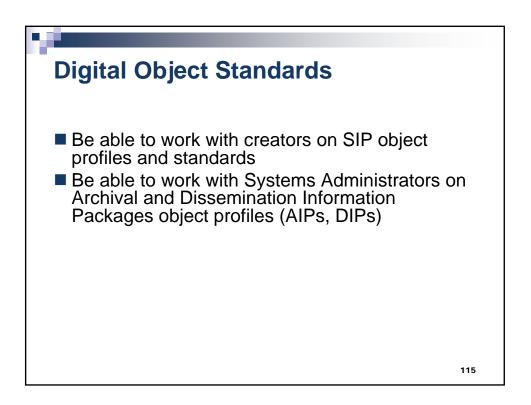


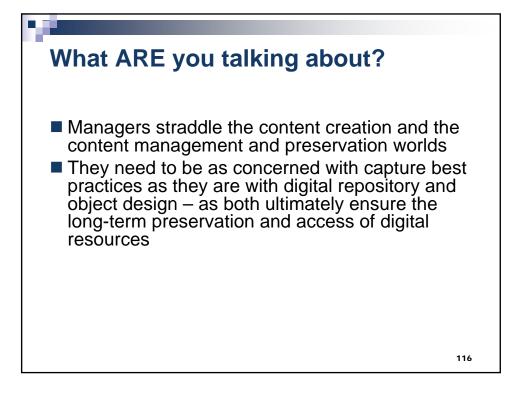


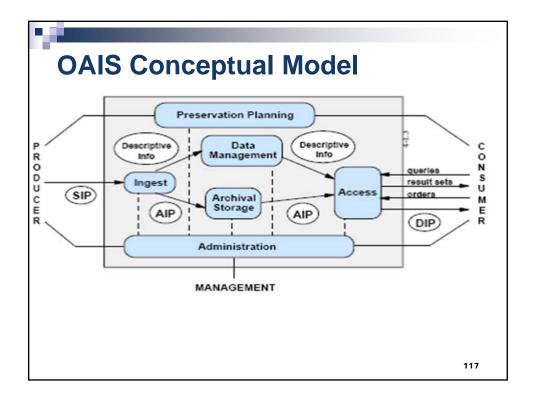


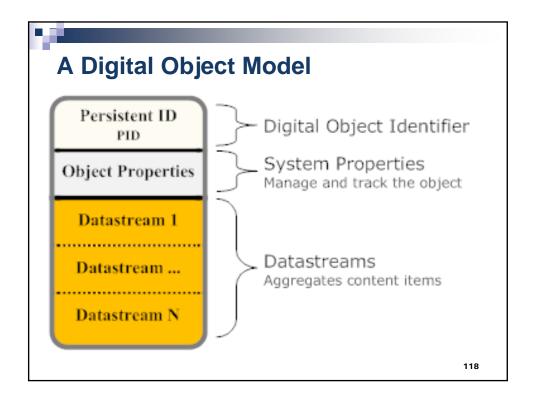


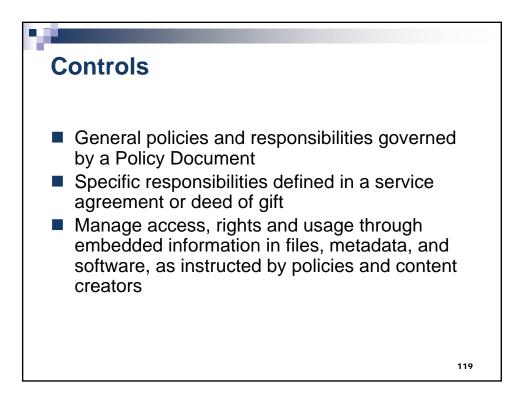




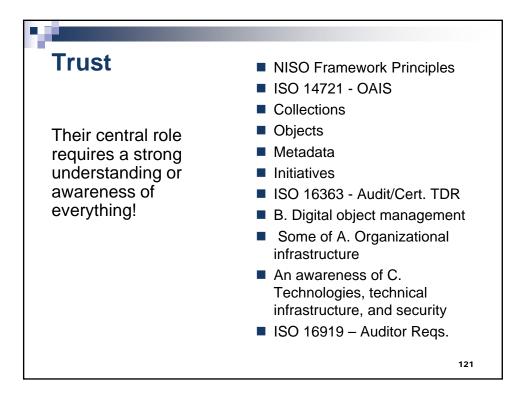




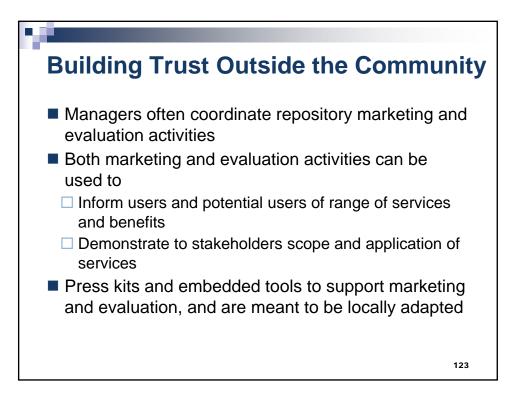


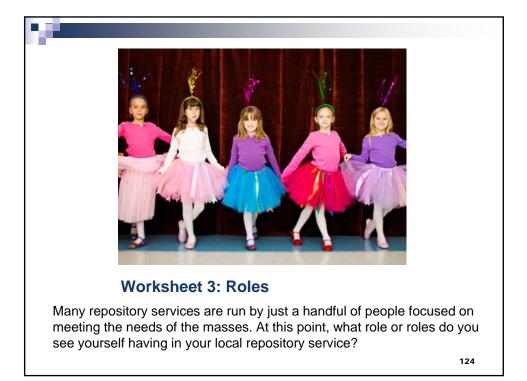










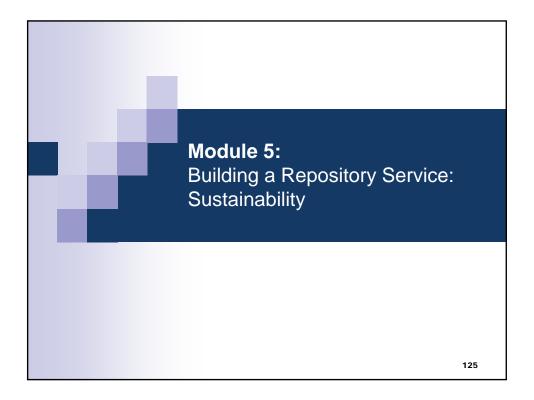


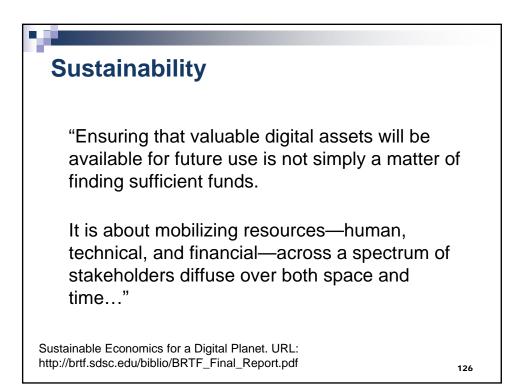
### SAA Digital Repositories Course

## Worksheet 3: Roles

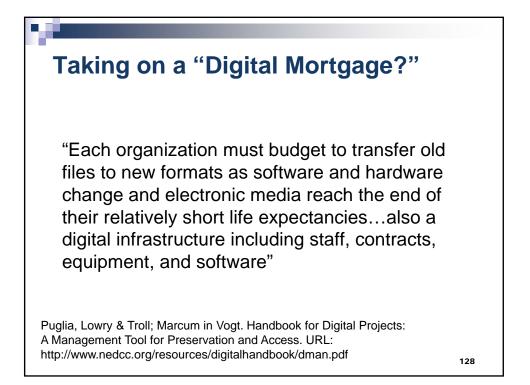
## What roles and activities will YOU be responsible for? If not you WHO will do it?

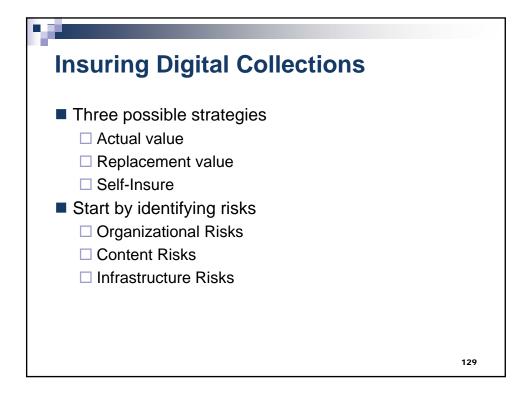
Role	l Do lt	Others Do It	l Don't Know
Manager:			
Entrusted with content and collections			
Systems Admins:			
Hardware, software, and network infrastructure			
Creator/Depositor:			
Donors, producers, etc.			
End User:			
"Communities," both internal and external			
Stakeholder:			
Internal and external decision makers and funders			



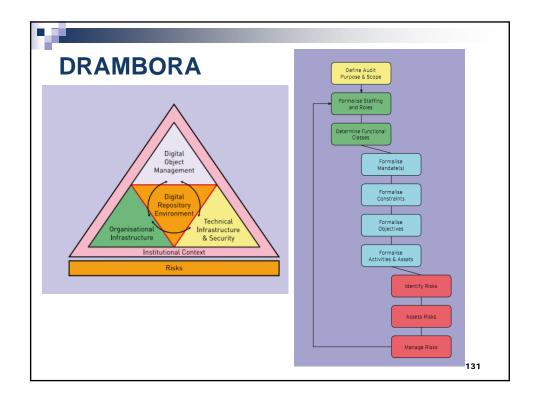


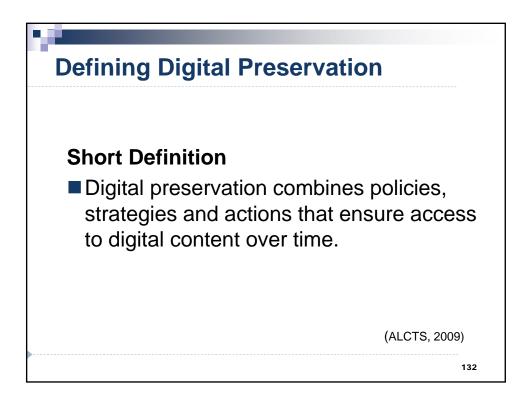


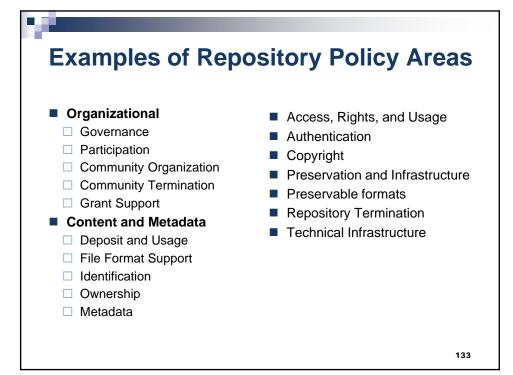


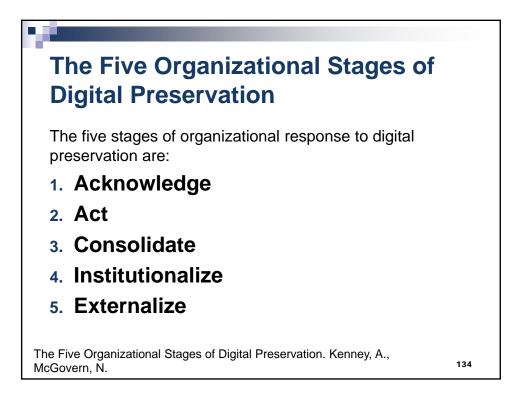


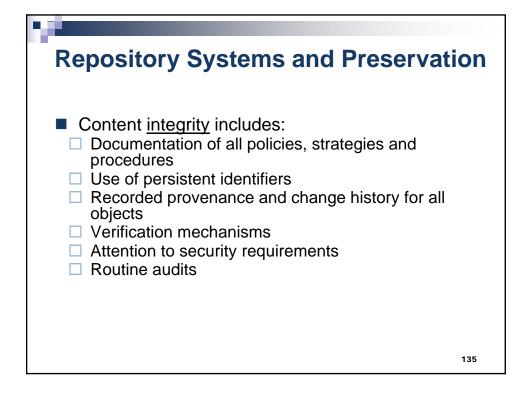


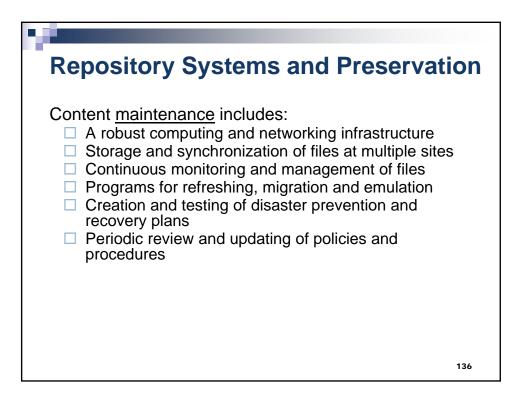




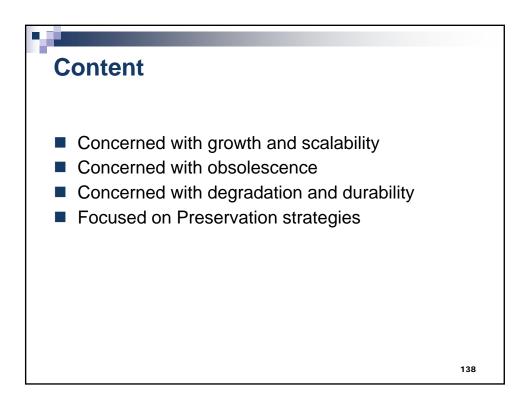


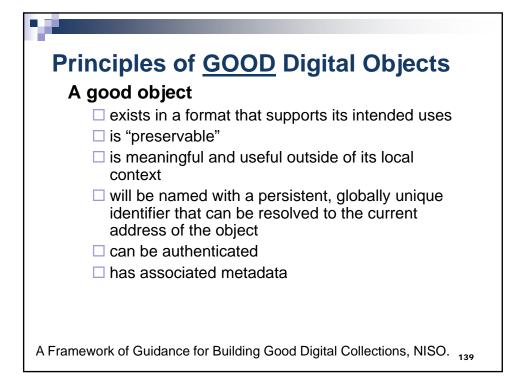


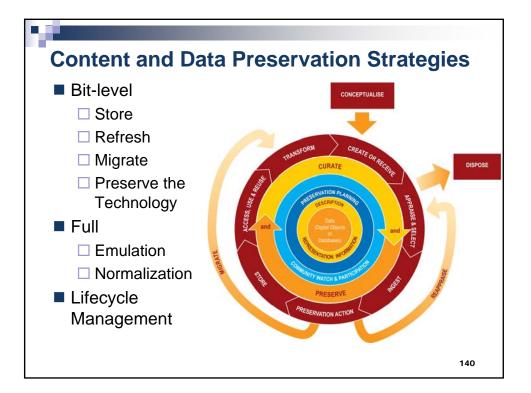












# Thoughts...

"Stewardship is easy and inexpensive to claim; it is expensive and difficult to honor, and perhaps it will prove to be all too easy to later abdicate..."

Clifford Lynch



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#### Worksheet 4: Sustaining

#### **Five Organizational Stages of Digital Preservation**

The five stages of organizational response to digital preservation are:

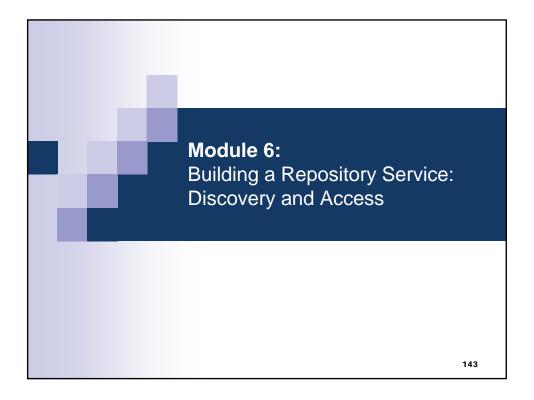
- 1. Acknowledge: Understanding that digital preservation is a local concern;
- 2. Act: Initiating digital preservation projects;
- 3. Consolidate: Seguing from projects to programs;
- 4. Institutionalize: Incorporating the larger environment; and
- 5. Externalize: Embracing inter-institutional collaboration and dependency.

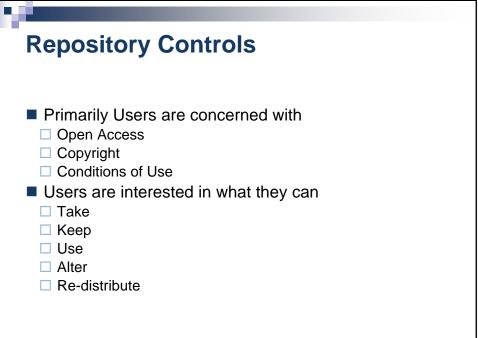
(Anne R. Kenney & Nancy Y. McGovern. The Five Organizational Stages of Digital Preservation)

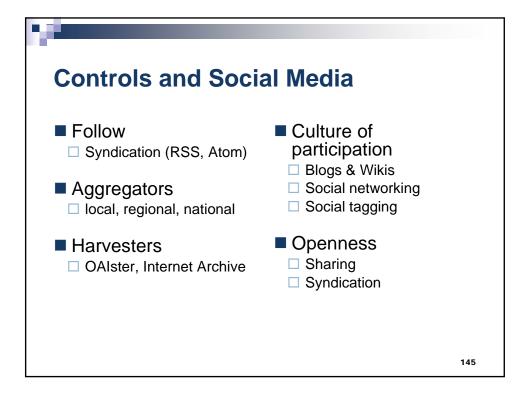
#### Questions to consider:

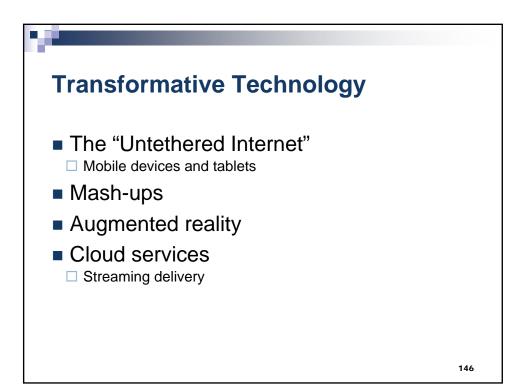
- 1. What stage do you believe your institution is currently in?
- What components do you believe would need to change and how would they need to change to achieve the next stage?

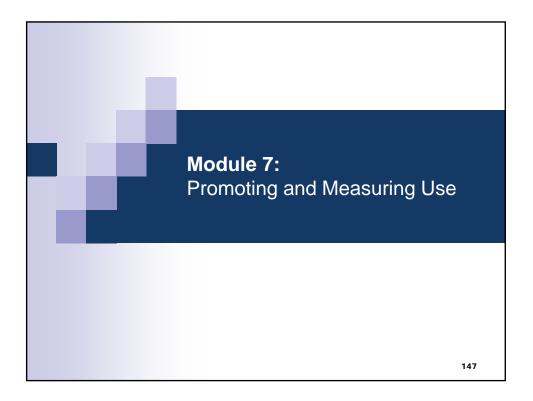
   (ie. Planning, Content, Controls, Community, Resources, Infrastructure, and Applications)
- 3. What challenges to do you see to achieving the next stage locally?
- 4. What are five things you may be able to do today (or this year...) to move your institution forward to the next stage?(Remember, Rome wasn't built in a day...)







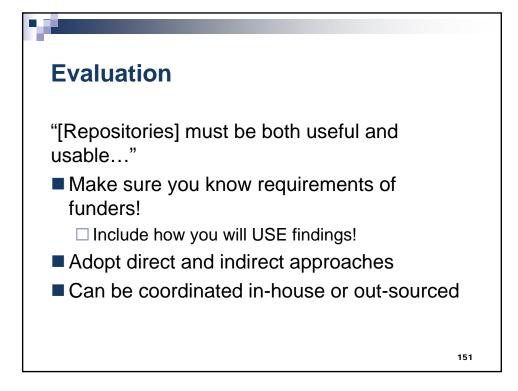


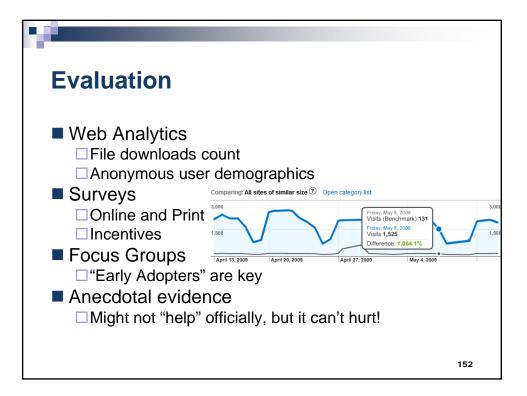


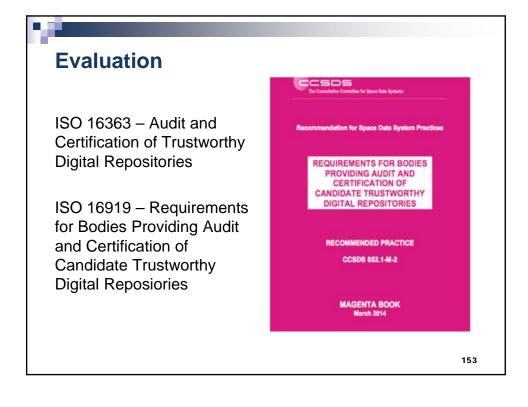




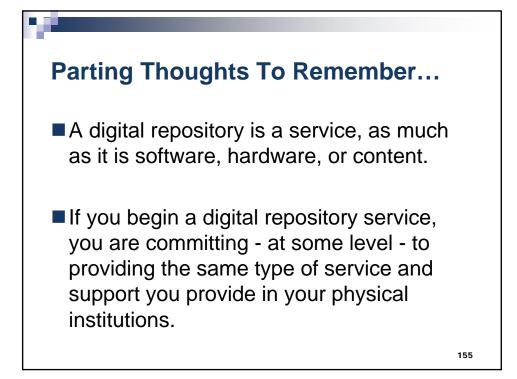


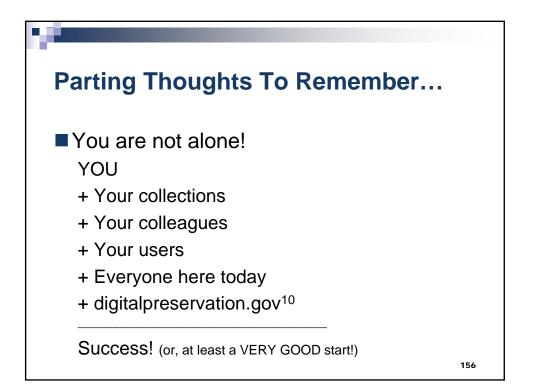








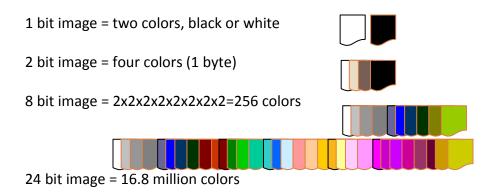




SAA Digital Repositories Course

## **Quality Primer**

Images: Bit Depth and Resolution



Bit Depth



1 bit image

24 shades of gray

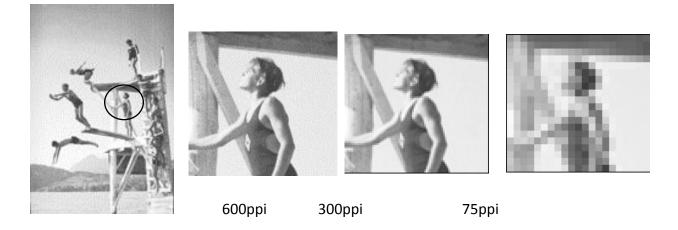
16 million colors

Looking Closer:



## SAA Digital Repositories Course

#### Resolution



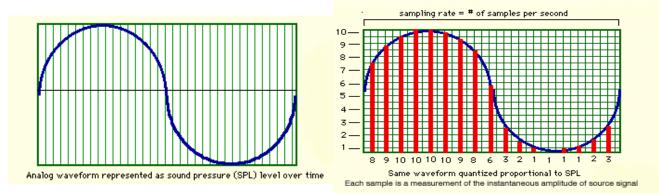
File Size and Storage: Doing the Math:

Image size formula: X pixels x Y pixels x bit depth ÷ 8

8 x 10 photo at 300 ppi and 8 bit grayscale= 7.2MB (((8x300) x (10 x 300))x 8) ÷ 8

The same 8 x 10 photo at 600 ppi = 28MB 8 x 10 at 300 ppi 24 bit color = 22 MB 8 x 10 at 600 ppi 24 bit color = 87 MB

Audio Quality: Sampling From: Introduction to Computer Music: Volume One http://www.indiana.edu/%7Eemusic/etext/digital\_audio/chapter5\_sample.shtml



Audio Quality: Compression

Compression creates smaller file sizes with a resultant loss of quality as "insignificant" bits of data are discarded and sound values are interpolated.

Handout 2: Roles and Components Chart

	Hardware	Software	Content	Controls	Trust	Relations
Managers	(h)	AR I	AP.	(kg	AR I	(kaj
Sys. Admin.	Jen		[6]	(kg	<b>A</b>	€]
Creators	(J)	[J]	LE I	<b>A</b>	<b>A</b>	R.
End Users	(J)	[J]	<b>A</b>		<b>A</b>	(Ja
Stakeholders	(B)	[3]		ß	ka	ka



Highly important requires either depth of knowledge or has a high value

- Something to know about, but not in any great detail
- Not consciously considered important or valued

## Repositories, Copyright, and Fair Use

Association of Research Libraries (ARL) Code of Best Practices in Fair Use for Academic and Research Libraries (2012) http://www.arl.org/pp/ppcopyright/codefairuse/code/four-creating.shtml

#### FOUR: Creating Digital Collections of Archival and Special Collections Materials

## Description

Many libraries hold special collections and archives of rare or unusual text and nontext materials (published and unpublished) that do not circulate on the same terms as the general collection. The copyright status of materials in these collections is often unclear. Despite the investments that have been made in acquiring and preserving such collections, they frequently are of limited general utility because they typically can be consulted only on-site, and in some cases using only limited analog research aids. The research value of these collections typically resides not only in the individual items they contain (although such items are often unique in themselves), but also in the unique assemblage or aggregation they represent. Special collections can have a shared provenance or be organized around a key topic, era, or theme. Libraries and their patrons would benefit significantly from digitization and off-site availability of these valuable collections. While institutions must abide by any donor restrictions applicable to their donated collections, and they will inevitably consider practical and political concerns such as maintaining good relations with donor communities, librarians will benefit significantly from knowing their rights under fair use.

Presenting these unique collections as a digital aggregate, especially with commentary, criticism, and other curation, can be highly transformative. Works held in these collections and archives will serve a host of transformative scholarly and educational purposes relative to their typically narrower original purposes. Materials in special collections typically include significant amounts of primary sources and artifacts (correspondence, institutional records, annotated volumes, ephemeral popular entertainment) whose value as historical objects for scholarly research is significantly different from their original purpose. The new value created by aggregating related documents in a single, well-curated collection is also significant. In addition to access for scholarly purposes, digitization facilitates novel transformative uses of the collection as a whole—see principle seven below regarding digitization for search and other nonconsumptive uses.

#### Principle

It is fair use to create digital versions of a library's special collections and archives and to make these versions electronically accessible in appropriate contexts.

#### Limitations

• Providing access to published works that are available in unused copies on the commercial market at reasonable prices should be undertaken only with careful consideration, if at all. To the extent that the copy of such a work in a particular collection is unique (e.g., contains

marginalia or other unique markings or characteristics), access to unique aspects of the copy will be supportable under fair use. The presence of non-unique copies in a special collection can be indicated by descriptive entries without implicating copyright.

- Where digitized special collections are posted online, reasonable steps should be taken to limit access to material likely to contain damaging or sensitive private information.
- Full attribution, in a form satisfactory to scholars in the field, should be provided for all special collection items made available online, to the extent it is reasonably possible to do so.

## Enhancements

- The fair use case will be even stronger where items to be digitized consist largely of works, such as personal photographs, correspondence, or ephemera, whose owners are not exploiting the material commercially and likely could not be located to seek permission for new uses.
- Libraries should consider taking technological steps, reasonable in light of both the nature of the material and of institutional capabilities, to prevent downloading of digital files by users, or else to limit the quality of files to what is appropriate to the use.
- Libraries should also provide copyright owners with a simple tool for registering objections to online use, and respond to such objections promptly.
- Subject to the considerations outlined above, a special collection should be digitized in its entirety, and presented as a cohesive collection whenever possible.
- Adding criticism, commentary, rich metadata, and other additional value and context to the collection will strengthen the fair use case.
- The fair use case will be stronger when the availability of the material is appropriately publicized to scholars in the field and other persons likely to be especially interested