Information Management Resource Kit

Module on Digitization and Digital Libraries

UNIT 4. CREATION AND MANAGEMENT OF DIGITAL DOCUMENTS

LESSON 2. WHAT TO DIGITIZE?

NOTE

Please note that this PDF version does not have the interactive features offered through the IMARK courseware such as exercises with feedback, pop-ups, animations etc.

We recommend that you take the lesson using the interactive courseware environment, and use the PDF version for printing the lesson and to use as a reference after you have completed the course.



Learning Objectives

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At the end of this lesson, you will be able to:

• understand the main **purposes of digitization**; and

• apply criteria for selecting and prioritizing documents to specific situations.



Why digitize?	
Mr. Touré, a library manager, is evalu hardcopy documents.	ating the advantages of digitizing his library's
Hmm Digitizing documents could be the best answer to our needs!	Why would he want to digitize documents?
	He may want to:
	 preserve his documents, that is to allow people to read them without damaging the originals;
	make the documents more accessible to the users; or
	• reuse the documents for different purposes.
	Let's analyze these three needs

Why digitize?

These are the three main needs for digitization; two (or all three) of them may apply to your digital library project.

NEED	DESCRIPTION
To preserve the documents	• To allow people to read older or unique documents without damaging the originals
To make the documents more accessible	 To serve existing users better (e.g. to allow users to search the full text of the documents) To serve more users than is now possible (e.g. people at remote locations, or more than one person at a time) To bring together scattered materials on a specific topic To respond to a particular request for a digital library
To reuse the documents	 To convert documents into different formats (e.g. to use images in a slideshow) To adapt the content for a different purpose (e.g. to convert the text of a report into training materials)

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Why digitize?	
sure that content an	e you run a library or a documentation centre. You want to make d look and feel of documents will be displayed as originally and regardless of the software utilized for their creation.
What is your main g	oal?
	○ Reuse
	O Preservation
	○ Providing access
	Please click on the answer of your choice

What to digitize?

Let's come back to Mr. Toure's case. A meeting with his colleagues raises some important questions...

The idea is interesting, but, before starting, we should clarify some points. Are we sure it is worth it? And, if yes, which of our documents should we digitize?



• Is it **worth** digitizing the documents?

• Is there enough **demand** from users to justify the costs?

- Do the documents form a collection?
- How easy will it be to digitize them?
- How many pages have to be digitized?
- What about copyright and security?

We will go through these questions in this lesson. They provide criteria for selecting and prioritizing documents to digitize.

What to digitize?	
Is there a particul	ar request to digitize documents?
the institute's perso	o digitize a particular set of documents – say, a research journal, or nnel records. This request may come with an offer of funding. If the the boss, it can be hard to refuse!
Requests to digitize	documents have advantages and disadvantages:
	upport the digitization effort; this can be very useful if funding is ization efforts are just beginning .
	nents to be digitized are not always the most appropriate ones; they from other points of view.

Is it worth digitizing?

First question is: is it **worth** digitizing the documents?



Digitizing documents can take a lot of time, effort and money. Make sure it is worthwhile.

Do the documents contain **information** that is **valuable enough** to warrant the costs? Is the information of lasting value? There is little point in digitizing documents (such as bulky seminar reports) that are already out of date.

Or perhaps the **documents themselves** are valuable? Digitizing old, unique documents that are easily damaged (such as illuminated manuscripts) allows people to use the documents without handling the originals. These unique documents are sometimes called "heritage documents".

Are there **other electronic copies** of the documents available? Perhaps they have already been digitized by someone else.



Do the documents form a collection?

Could some of the documents we want to digitize be grouped into **collections**?



It's important to verify if the documents form a **collection**.

In fact, the documents in a digital library should have something in common, like a common **subject focus** or **the same author** (or group of authors).

For example:

 agricultural extension manuals for farmers in the drylands of Southeast Asia; or

• publications produced by the Indonesian Research Institute for Rice.

It may be possible to enrich the library with documents from other organizations or collections (either by including them in the collection directly, or by adding links to them if they are stored on other servers). Of course you need to consider copyright issues.

How easy is it to	o digitize documents?
Another important documents.	factor to take into account is how easy it will be to digitize the
Not all hardcopy d	ocuments are easily converted to electronic format.
For example, whic digital format?	h of the following documents do you think are easy to convert to
	Documents printed on coloured paper.
	Journal articles, consisting mainly of text.
	Scientific papers with equations and tables.
	Extension leaflets with one or two line drawings per page.
	Click on the answers of your choice

How easy is it to digitize documents?

Check the **physical characteristics** of the documents to understand **how easy** it will be to digitize them.

Easy to convert	Difficult to convert	
White, clean opaque paper	Coloured, damaged or thin paper	
Simple layout, single columns	Complex layout, multiple columns	
Single sheets	Fragile, heavy bindings	
Straight text with headings, few pictures	Many pictures, equations and tables	
Standard computer typefaces	Unusual typefaces, poor quality printing, typewriting, handwriting	
Unaccented Roman scripts	Accented and non-Roman scripts	

If you have a lot of documents that are hard to digitize, you might choose:

• not to include them in the digital library;

- include them as image files rather than as searchable text; or
- have them retyped rather than scanned.



One-off or ongoing project?

To correctly evaluate the amount of material to be handled, you should also understand if your digitization project is one-off or ongoing.



A **one-off** digital library project has a limited set of documents to digitize. For example: the publications produced by an institute up to a **certain date** (newer publications may already be in digital format and directly put into the digital library).

An **ongoing** project continually adds new documents. For example: a set of **newspaper clippings** on a particular topic (the number of new clippings will be hard to predict, as it will depend on whether the topic is in the news).

If you have an ongoing digital library project, you will have to make sure funding and staff will be available to carry on the work in the future.

 Which of the following is an ongoing digital library project? A collection of an ancient author's writings. A collection of student theses at a university. All the documents collected during a workshop. 	One-off or ong	oing project?
A collection of student theses at a university.All the documents collected during a workshop.	Which of the fol	lowing is an ongoing digital library project?
A collection of student theses at a university.All the documents collected during a workshop.		
O All the documents collected during a workshop.		O A collection of an ancient author's writings.
		O A collection of student theses at a university.
Click on the answer of your choice		O All the documents collected during a workshop.
Click on the answer of your choice		
		Click on the answer of your choice

What about copyright and security?



Check the **copyright** to make sure there are no restrictions on digitizing the documents and making them available in a digital library. If there are restrictions, you should obtain the necessary permissions before scanning the documents. Remember that:

- government documents are increasingly being copyrighted;
- · commercially published documents are almost always copyrighted; and
- even if there is no © symbol in the document, it may still be copyrighted.

Digitizing documents makes them easier to access. But some documents are **confidential**, or access to them must be **restricted**. Some examples:



• minutes of policy meetings;

- · personnel, financial and salary records; and
- · commercial secrets.

It is possible to restrict access to all or part of a digital library, but this involves extra steps. You will have to password-protect the library (or parts of it), and take extra care to ensure that the computer system is secure.



Selecting and prioritizing documents

Try developing a scoresheet to help you **prioritize** them. A table like the one below can be used to give scores for each of the documents (or set of documents, such as a journal series).

Criteria		Doc. Set A	Doc. Set B	Doc. Set C
Document value	3 = high 1 = low			
User demand	3 = high 1 = low			
Fit into collection	3 = yes 1 = no			
Ease of digitization	3 = easy 1 = hard			
Number of pages	3 = few 1 = many			
Copyright	3 = no restriction 1 = restricted			
Security	3 = no problem 1 = problems			
Particular request	3 = yes 1 = no			
Total	Max = 24			



Selecting and prioritizing documents

Mr. Touré and his colleagues have carried out the evaluation for another two sets of documents. As you can see, **Extension brochures** have the highest score.

Criteria		Extension brochures	Research reports	Seminar papers
Document value	3 = high 1 = low	2	3	1
User demand	3 = high 1 = low	3	2	1
Fit into collection	3 = yes 1 = no	3	3	2
Ease of digitization	3 = easy 1 = hard	3	2	2
Number of pages	3 = few 1 = many	2	1	2
Copyright	3 = no restriction 1 = restricted	3	3	3
Security	3 = no problem 1 = problems	3	3	3
Particular request	3 = yes 1 = no	1	1	3
Total	Max = 24	20	18	17



Here you can download and print the documents provided in this lesson.

You may use them as tools for your job.



Checklist - to evaluate your documents following the defined criteria

Table - to give scores to your documents for prioritizing them



 When choosing documents to digitize, you should evaluate if: it is worthwhile to digitize them; they are easy to digitize; they will form a viable collection; and they are free from copyright or security restrictions. 	Summary	
 they are easy to digitize; they will form a viable collection; and 	When choosing documents to digitize, you should evaluate if:	
they will form a viable collection; and	 it is worthwhile to digitize them; 	.0
	 they are easy to digitize; 	
they are free from copyright or security restrictions.	• they will form a viable collection; and	NON I
	 they are free from copyright or security restrictions. 	
Also make sure there is enough demand from users to justify the effort of digitizing documents and putting them into a digital library.	the effort of digitizing documents and putting them into a	1
Once you have considered all the previous criteria, you should be able to decide which documents to include in your digital library.	be able to decide which documents to include in your	



Exercise 1	in purpose for digitizir	ng in each of the	se situations?	
You have a collect and books that ar	tion of old documents e of historical interest. g damaged as they get			Preservation 1
organization has	tion of publications your produced over the last 25 o make them available to			Reuse
	sects. They will make an an illustrated guide for			Accessibility Accessibility
	tion of students' theses available only in your			
	Click on each option Then, clic	and drag it to th k on Check Ansv	ne correct box. ver.	

Exercise 2
You are considering digitizing various documents. What types of documents are you more likely to include in a digital library?
O A series of popular commercially published books
O A series of books published by your own institution
Please click on the answer of your choice

Exercise 3	
You are considering o likely to include in a o	ligitizing various documents. What types of documents are you more digital library?
ΟΑ	set of rare, historical photographs
O A	set of photographs of prominent modern politicians
	Please click on the answer of your choice

Exercise 4	
You are considering digitizing various documents. What types of documents are you more likely to include in a digital library?	
O A collection of manuscripts about a highly specialized field of agricultural research	
O A collection of easy-to-understand manuals on common farming problems	
Please click on the answer of your choice	

Exercise 5	
You are considerin likely to include in	g digitizing various documents. What types of documents are you more a digital library?
0	A large pile of unsorted documents, the contents of which you are not sure of.
0	A small collection of documents on a specific subject.
	Please click on the answer of your choice

If you want to know more ...

Online Resources:

Cornell University Library/ Research Department. 2000. Moving theory into practice: Digital imaging for libraries and archives. Research Libraries Group. (http://www.library.cornell.edu/preservation/tutorial/)

Institute of Museum and Library Services (IMLS). 2001. A framework for building good digital collections. (http://www.imls.gov/scripts/text.cgi?/pubs/forumframework.htm)

Noerr, Peter. 2003. The Digital Library Toolkit. Sun Microsystems. (http://www.sun.com/products-n-solutions/edu/whitepapers/pdf/digital_library_toolkit.pdf)

Sitts, Maxine K. (ed.) 2000. Handbook for digital projects: A management tool for preservation and access. Northeast Document Conservation Center, Andover, Massachusetts. (http://www.nedcc.org/digital/dman.pdf)

Additional Reading:

Witten, Ian H, and David Bainbridge. How to build a digital library. Morgan Kaufmann, San Francisco. 2003. Chapter 2: Preliminaries: Sorting out the ingredients.