# **Information Management Resource Kit**

# Module on Digitization and Digital Libraries

## UNIT 4. CREATION AND MANAGEMENT OF DIGITAL DOCUMENTS

# LESSON 6. SPECIAL CONSIDERATIONS FOR DELICATE AND HERITAGE DOCUMENTS

## 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

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

 understand the role of digitization in preserving rare and delicate documents; and

• identify the practices needed in handling rare material before, during and after digitization.



Introduction	
Delicate and heritage documents risk disappearing: this means loss of our cultural memory!	
Sarár, politicus.	A library contains different kinds of documents: books, journals, newspapers, old manuscripts, etc. It may also include rare heritage documents.
Liver F. JA	Some of the highly used books, as well as other rare manuscripts, can become very fragile.
	How can we avoid the risk of their deterioration?

## Introduction

Digitization of delicate materials provides a good solution for preservation.

In fact, it allows delicate materials to be excluded from every day physical use which:

stops deterioration to originals caused by usage;

• allows better preservation of originals; and

• provides wider access to digital versions of unique or rare items, thus democratizing access while contributing to the creation of new knowledge.

# General technological approach Image: Second state Image:

It is true that we will need to preserve originals as well as digital materials, but in this way the preservation of original documents will be easier and more efficient.

Select the answer of your choice





## Before digitization

When handling materials, you need to work closely with **preservation specialists**. What can they do for you?





## **During digitization**

The biggest enemy of delicate materials is the sudden change of environmental conditions. This happens when you move the materials from a stable storage environment to your digitization centre.

The materials may then change their original form, for example, physical modification and movement of parchments may result in the accelerated embrittlement of the acid paper.

If materials for digitization are transported from remote storage facilities, ensure appropriate climate control during transportation. You may have to use special climate controlled vans. DURING DIGITIZATION



To minimize the **security dangers**, you should use, where appropriate, an intermediate format on another media, e.g. **microfilm**. In this way you preserve the original and digitize the intermediate format. The careful handling then refers to production of the microfilm.

## **During digitization**

Careful manual handling is not enough. You also will need **special equipment** in order to control the **climate in your digitization centre**.

The **temperature and relative humidity** at the digitization centre should be the same as at the permanent storage environment. You should also avoid exposure of digitized materials to additional sources of heat and light.



## **During digitization**

An important aspect to be considered is **light control**. During the scanning process, the materials are exposed to heat and light, for a rather long period of time. You should minimize the heat exposure in this case. This is possible by...



Placing special **infrared protection foil** between the lights and exposed materials. The foil will absorb a considerable part of the generated heat.



Placing **small ventilators** behind the lights. The air will take the heat out of this space.

## During digitization

You should be especially careful when handling the **bookbinding** during mechanical browsing and exposure of individual pages or folios during scanning.

It is well-known that a loosened bookbinding is a source of considerable damage in old manuscripts. The loosened **spine of the book** enables the pages or folios to move and thus to rub each other during handling. This may also happen **during storage if the storage conditions change** and cause an alteration in the volume of the books' materials. In this situation precious colour illuminations may blur or fade.

A good solution is to use a **book cradle** to provide support for the book spine.



## **During digitization**

The book cradle can be combined with devices that contribute to better quality of scanning.

The problem usually is the creation of smooth surfaces of scanned folios or sheets. This can be achieved by the application of **vacuum-based bars for holding individual folios**; the air pump can be placed in a neighbouring room.



Remember that the **human factor** is very important during the digitization process. Therefore, you should educate the scanner operators and increase their awareness that they are working with very rare and often irreplaceable cultural heritage documents.











Exercise 1	
Why is digitization a	good solution for preserving delicate and heritage documents?
(	D Because it helps avoid deterioration risks by replacing original documents with digital copies.
(	<ul> <li>Because it allows us to reduce the deterioration of the original documents by excluding them from physical use.</li> </ul>
	Please click on the answer of your choice

Exercise 2	
When should you use	infrared protection foil or small ventilators to preserve materials?
0	During their transportation to the digitization centre.
0	During the scanning process.
0	After the digitization process.
	Please click on the answer of your choice



