

A presentation on



# ***Digitization of Rare Books***

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ERINZ. VON ASSISI

SANCTI AUGUSTINI OPERA  
TOM. VII

SANCTI AUGUSTINI OPERA  
TOM. VI

J. KRÄEMER  
DER MENSCH UND DIE ERDE  
ZWEITER BAND  
DEUTSCHE VERLAGS-ANSTALT  
BONG & CO.

XV  
6/6  
WILSCHERER  
GEOGRAPHIA UNIVERSA  
TOMUS IV. P. I.

SANCTI AUGUSTINI OPERA  
TOM. III

SANCTI AUGUSTINI OPERA  
TOM. XI

J. KRÄEMER  
DER MENSCH UND DIE ERDE  
ERSTER BAND  
DEUTSCHE VERLAGS-ANSTALT  
BONG & CO.

J. KRÄEMER  
DER MENSCH UND DIE ERDE  
ZWEITER BAND  
DEUTSCHE VERLAGS-ANSTALT  
BONG & CO.

DE MEDECINE  
DICTIONNAIRE  
CH. ROBIN

Red leather book cover with blind-tooled floral patterns.

# **What is Digitization?**



# **What is Document Imaging?**

- The conversion of data from analog to digital or binary.
- Data could be an object, image or document.



- Document imaging is the conversion of paper documents into electronic images stored on a computer.
- Documents are imaged using a scanner and then catalogued for quick retrieval

Digitizing information makes it easier to preserve, access, and share.



## *Why Digitize?*

- **To increase access: this is the most obvious and primary reason. To provide enhanced access to the institution's resources with respect to education, long life learning.**
- **To reduce the handling and use of fragile or heavily used original material and create a "back up" copy for endangered material.**

# *Benefits*

- **Minimize Paper Storage**
- **Eliminate Manual Searches**
- **Improve Information Availability**
- **Increase Information Security**
- **Reduce Storage Costs**
- **Disaster Recovery**
- **Enhance Customer Service**



# *Standards and Benchmarks*

## Image Capture: -

- Flatbed / ADF Scanners are used where books are in good condition and the binding of the books can be removed.
- Face up / Non Contact Scanners are used in case of Manuscripts or Rare fragile books.
- Wide format scanners are used in case of Maps and Drawings
- Text/Illustrations are usually scanned at 300 dpi or higher resolution at 100% scaling factor to capture all details of the image.
- The bitonal (1 bit), grayscale (8 bit) and color images are scanned with 24 bit RGB color in the raw uncompressed format.
- While capturing images of illustrations especially when they are created using metal such as silver or gold, special care should be taken to avoid oxidation.



# *Standards and Benchmarks*

## **Image Enhancement: -**

- **Original raw image shall be saved as per Master Image Specification.**
- **The raw image shall be processed to remove dirt, worm marks, water marks, noise, shadow, scratch marks, skew etc.**
- **Adjustment of brightness and contrast, gamma correction, sharpening and blurring, removing patterns and adjusting colors will also be the part of Image Processing.**
- **Cleaned image shall be saved as per Clean Master Specification.**
- **Two derivative images namely Access Image and Thumbnail image will be derived from the cleaned image.**

# Before

The frontispiece of the seated prince holding a bow and arrow in the company of eight pages is typical of this courtly style in the composition, which is symmetrical down to the three flower vases in the foreground; in the strict frontality of the ruler; in the rejection of all individual sound, expression, or gesture; and finally in the motionless attitude of the figures, typified in the arrested gesture of the ruler, who has stopped using his weapon and gazes out into the infinite. The importance of the central figure, shown in a rich blue coat with folds indicated in gold, is further stressed by his size, his royal bearing, and particularly by the two genii who float above him holding a scarf over his head. From the manner of presentation it seems clear that this picture and the others of the series are symbolic, and that they do not illustrate the texts which they precede. Apparently, however, the specific aspect of the ruler chosen for a particular frontispiece has in certain cases been suggested by the story that follows.

Illustration page 65

Kalla and Dimna: The Lion and the Jackal Dimna. Probably Syria, c. 1200 to 1220. (125×191 mm.)  
ms. arabe 3465, folio 49 verso, Bibliothèque Nationale, Paris.



63

# After

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Kalila and Dimna: The Lion and the Jackal Dimna. Probably Syria, c. 1200 to 1220. (125×191 mm.)  
Ms. arabe 3465, folio 49 verso, Bibliothèque Nationale, Paris.





*Site Survey  
And infrastructure deployment*



*Material  
Receiving*



*Document Preparation by  
Scholars / subject experts  
for Scanning*



*Scanning of Material*



*Basic Quality  
Check of Images*



*Image Enhancement*



*Final DVD Creation of  
Scanned & Cleaned  
Material*



*Printouts of DVD  
Jacket Cover &  
DVD Labels*



*Delivery of Data on DVDs  
& Porting data on client's  
Server with proper  
indexing*



*Removal of Data  
from vendors systems*

## **Brief Pictorial Workflow: Digitization of Books**

# **Process Work Flow**

# Digital File Options

- **TIFF - .tif**
  - Good for printing, editing and transferring between programs
- **PDF - .pdf**
  - Good for creation of eBook, printing, uploading to web and for transferring
- **JPEG - .jpg**
  - Compressed format for screen display, file transfer and internet

# ***The End Product***

- **Raw Master Image (TIFF Format)**
- **Clean Master Image (TIFF Format)**
- **Access Image (JPEG Format)**
- **PDF Document for set of Images (only for Books, Drawings and Maps), Full Text Search for PDF's.**
- **Document Management Software (DMS) – for Search and Retrieval of Scanned Material.**

## *About Us*

*ACI Infocom Ltd.* is one of the leading Indian companies that offer a complete range of *Integrated Information Management Solutions* as business process outsourcing, electronic document & content management systems, IT outsourcing, software & application integration, imaging solutions and more.



# *Services Offered*

- **Electronic Document Management Solutions**
- **Scanning & Data Capturing**
- **Data Entry Services**
- **Data Conversion**
- **Content Management**
- **Form Processing**
- **Customized Software Development**
- **Image Enhancement**
- **Digital Photography**
- **3D imaging of antiquities and monuments**
- **Conversion of Drawings / maps to different formats**
- **GIS conversions**
- **Onsite / Offsite ITES Projects Execution**
- **Application Integration**
- **E Governance**

# *Credentials*

- **Ministry of Defence**
- **Ministry of Culture**
- **Ministry of Tourism**
- **Various Embassies**
- **PN Writer**
- **Gujarat Ambuja**
- **Dabur**
- **Jindal Group**
- **JK Group**
- **Rathi Steel**
- **Pasupati Group**
- **Victor Tools**
- **Dalmia Cement**



# QUESTIONS



# Thank You

*Assuring you the best of our services at all times.*

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