

HERITAGE INFORMATICS

HARNESSING INFORMATION TECHNOLOGY FOR PRESERVATION

K.ASOK KUMAR
REGISTRAR, C-DIT
**(CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY,
THIRUVANANTHAPURAM)**

HERITAGE INFORMATICS

INTRODUCING THIS NEW TERMINOLOGY

TO THE TRADITIONAL

“MANUSCRIPT DIGITISATION”

OR

“COMPUTERISATION OF MANUSCRIPTS”

OR

“DIGITAL HERITAGE ARCHIVING”

OR

“COMPUTATIONAL MANUSCRIPTOLOGY”

HERITAGE INFORMATICS

**DIGITISATION IS THE CONVERSION OF
AN ANALOG SIGNAL IN TO DIGITAL SIGNAL OR CODE**

CONVERTION OF A PHISICAL OBJECT IN TO ELECTRONIC VERSION

**ENABLING THE OBJECT TO BE STORED EDITED DISPLAYED
ON A COMPUTER AND DISSEMINATED OVER NETWORKS AND THE
WORLD WIDE WEB**

HERITAGE ARCHIVING IN THE INDIAN CONTEXT

**Revival of ancient information and knowledge
and its adaptation to the requirements of modern age,
is of great relevance for our country
with long history of knowledge generation.**

**Ancient manuscripts , which are largely a treasure house
of time honored best practices and wisdom,
qualify for digitization on the grounds they need
to be preserved for prosperity,
not only for our nation but for the mankind as a whole.**

HERITAGE ARCHIVING RECENT DEVELOPMENTS

Digitisation of Manuscripts in India has gained a wide acceptance in recent times

Thanks to the Heritage Protection Mission led by National Mission for Manuscripts and Other Academic and Non-Governmental organizations

HERITAGE INFORMATICS PROTOCOL

In Digitization of manuscripts, Digital Technology is used to preserve, reserve, analysis and disseminate manuscripts

Two Principles are followed here

- Text and Intellect are considered primary
- Technology is given only a secondary position

Fundamentals of Heritage Informatics

- Live Archiving
- Textualisation
- Analysis
- Dissemination

Fundamentals of Heritage Informatics

Live Archiving

- Two Dimensional Image Capturing
- Three Dimensional Image capturing

Fundamentals of Heritage Informatics

Textualisation

- Transforming Multimode of Manuscripts in to mechanically readable form
- Abstracting Fonts from images and creating new computer fonts

Fundamentals of Heritage Informatics

Analysis

- Transliteration of textualised manuscripts in to cognate script
- Transliteration of content in to modern script
- Configuring a content Management System using metadata
- Creating a Automatic transliteration Software and Database Management System.

Fundamentals of Heritage Informatics

Dissemination

- Through the internet
- Through interactive CD / E-Book
- Digital Archiving
- E-Commerce Websites
- Exhibitions and Public awareness programmes