DIGITAL IMAGING
VIEW OF
DIGITAL PRESERVATION

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DIGITAL PRESERVATION

◇ What does “Digital Preservation” really mean?
◇ Why is preserving digital documents difficult?
◇ What is the process for “Digital Preservation?”
What does “Digital Preservation” really mean?

“Enable reliable, authentic, meaningful and accessible records to be carried forward through time within and beyond organizational boundaries for as long as they are needed for the multiple purposes they serve.

--Sue McKemmish, School of Information Management, Monash University
Preservation should allow future users to:

- Retrieve, access, decipher, view, interpret, understand, appreciate and experience
- Informational artifacts (i.e. documents, data, records, sound, movie, etc.)
- In whatever way and for whatever purpose are desired in the future
DIGITAL PRESERVATION

DIGITAL PRESERVATION PROCESS

Why is preserving digital documents, objects, metadata, databases difficult?
DIGITAL PRESERVATION

DIGITAL PRESERVATION PROCESS

If All Elements are Handled Correctly

Then

= Long Term Preservation
DIGITAL PRESERVATION

PRESERVATION

PROCESS
DIGITAL PRESERVATION

WHAT TYPE OF DIGITAL PRESERVATION

SECURITY SYSTEM ADMINISTRATION STRATEGY

CREATION OF BACKUPS STRATEGY

ORGANIZATIONAL STRATEGY

STANDARDS STRATEGY

MULTIPLE ACQUISITIONS STRATEGY

REFRESH STRATEGY

LOCKSS STRATEGY

MIGRATION STRATEGY

REDUNDANCY STRATEGY

TECHNOLOGY STRATEGY

DIGITAL ARCHEOLOGY STRATEGY

COMPUTER MUSEUM STRATEGY

EMULATION STRATEGY

DIGITAL ARCHEOLOGY STRATEGY

ENCAPSULATION STRATEGY

ANALOG STRATEGY
DIGITAL PRESERVATION

PROCESS

Born Digital Documents → Organizational Strategy

Critical Data Sets → Multiple Acquisition Strategy

Field Capture → Image → Metadata

Conversion

Acquired → Redundancy Strategy

Ingest into GSU Digital Process

Strategy

Standards Strategy

Lots of Copies

Keep Stuff Safe

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DIGITAL PRESERVATION

PROCESS

Critical Data Sets

Metadata Preservation Strategy

Preservation DVD

Preservation DLT

Future Technology

Donor Copy

Distribution Copy

Ingest into GSU Digital Process

Redundancy Strategy

LOCKSS Strategy
DIGITAL PRESERVATION

Preservation, Recovery, Restore Strategies

- Hardware
- Software
- O.S.
- Preserve
- Copy

- Technology Preservation Strategy
- Emulation Preservation Strategy
- Encapsulation Preservation Strategy
- Analog Preservation Strategy
- Digital Archeology Strategy
DIGITAL PRESERVATION

MICROFILM MIGRATION

NITRATE FILMS

UN-PLANNED MIGRATION

POLYESTER FILMS

CORRECT MEDIA

PHYSICAL PROCESSING

MICROFILM PRESERVATION

PROPER STORAGE

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DIGITAL PRESERVATION

RECOVERY

DIGITAL PRESERVATION PROCESS

PLANNED MIGRATION

WORKING WITH VENDORS

AUDIT OF COLLECTION

INSURING PROPER STORAGE

TEMPERATURE

METADATA

HARDWARE

MEDIA

HUMIDITY

BIT-STREAM

SOFTWARE

PROCESS

DIGITAL PRESERVATION PLANNED MIGRATION AUDIT OF COLLECTION WORKING WITH VENDORS INSURING PROPER STORAGE

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DIGITAL PRESERVATION

QUESTIONS
DIGITAL PRESERVATION

Additional Slides not Presented at the Conference