



Preservation: Scenarios, Risks, Costs

Screening the Future

Hilversum 14-15 March 2011

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Why Are We Here?

- We have audiovisual content
- The 'do-nothing option' fails
- So we take preservation actions
 - Including digitisation
 - Which is expensive
 - And takes us into a new world
- Better, faster, cheaper: Presto, PrestoSpace
- The solution is the new problem: PrestoPRIME



Three Aspects of Digital Collections

- *Making* analogue content into digital content
- *Working* with digital content
- *Preserving* the digital content

Three Aspects of Digital Collections

- 1- *Making* analogue content into digital content
 - Planning
 - Budget
 - Workflow
 - Standards
 - Rights
 - Result: lots of files
- PrestoSpace information online:
[//wiki.prestospace.org/](http://wiki.prestospace.org/) [//digitalpreservation.ssl.co.uk/](http://digitalpreservation.ssl.co.uk/)
- Now: revised for PrestoCentre



[Main /](#)
Preservation Guide - Introduction

Introduction

- Overview of Preservation
- Getting Started
- Develop a Strategy
 - Collection Strategy
 - Preservation Strategy
- Make a Preservation Plan and Budget
 - A Format Roadmap
- Presto Space Help
 - Effective Technology
 - Preservation Projects
- Preservation Factory
- Everything Technical
- Answers to Questions

Supplements

- The Audiovisual Culture
- Service and Storage Providers
- Future Forecast
- Presentations
- Wiki Help

Originated by the [PrestoSpace](#) project, supported by the [Cultural Heritage Programme](#) of the European Commission [Information Society](#)



March 2011: Screening the Future 2011 ---- Major conference launching the *PrestoCentre*

[New Strategies and Challenges in Audiovisual Archiving](#)

Monday, March 14, 2011 at 9:30 AM - Tuesday, March 15, 2011 at 4:30 PM (GMT+0100)
Hilversum, Netherlands ---- Full details here:
<http://prestocentre.eu/>

January 2009: New Project: PrestoPRIME It's not *Presto3* or *Son of Son of Presto* but it is related: life after digitisation. After years of digitising audiovisual content, what do we do with all those files to keep them safe, and working properly? All the answers from [PrestoPRIME](#)

March 2008: PrestoSpace Integrated Website: All the [online results from PrestoSpace](#) in one place, fully integrated!
<http://digitalpreservation.ssl.co.uk/>
[The Rolling News, a pushdown list of news flashes](#)

General Guide to Audiovisual Preservation

Is this your problem?

If you have audiovisual media, it needs **maintenance** – or you will lose it. This guide shows how to:

- conserve old formats
- digitise for transfer to new formats
- create digital file formats



Home

- PRESERVATION ISSUES
- DIGITISATION
- RESTORATION
- METADATA
- DELIVERY
- ARCHIVE MANAGEMENT
- TRAINING

A Web site for archive owners, academics and the public alike, which provides a first point-of-call for information on the migration and digital preservation of audio/visual works. The site is a repository of the information and experience gained in the PrestoSpace project. You will find information ranging from the tutorial to the academic on planning and executing a digital preservation project and the technologies and processes involved. You will also find training videos, management tools and links to online resources and events in the field of digital preservation.



Highlights

- Tools**
- STORAGE CALCULATOR
- COST CALCULATOR
- PRESERVATION CALCULATOR



The SAM analysis tools
Tools to help you plan and manage a digital preservation exercise



Database of audiovisual media
Common audio and video formats found in European archives



Training Videos
Videos showing how to use early videotape equipment

Events

Final PrestoSpace Workshop, Rome


See ALL the PrestoSpace technology, from new machines for audio, video, and film digitisation, to the Turnkey System for hosting your own Digital Audiovisual Archive. More than 10 different demonstrations will run simultaneously presenting the PrestoSpace technology including audio, film and video scanning tools, to tools, guidelines, and services to manage the migration process and the storage, to audio, video, and film restoration tools, and eventually the Publication Platform and the Turnkey System to give access to audiovisual contents.

Tutorials


 [Why Digitise](#)


 [Selecting your storage solution](#)

 [The SAM analysis tools revealed](#)

 [Training Videos](#)

 [Storage Media Quality Assurance](#)

 [Planning Your Preservation Project](#)

 [You are not alone](#)

 [Media Migration and Obsolescence in Mass Storage](#)

News

[Rollout: Vizioncore vRanger Professional](#)

Migration to PrestoCentre: some things might be lost



- Are you ready for public access?

Three Aspects of Digital Collections

- 2- *Working* with digital content (lots of files)
 - Management
 - DAM/MAM
 - Repository
 - Storage
 - Metadata
 - digital library technology
 - Access
 - Rights

Three Aspects of Digital Collections

- 3- *Preserving* the digital content
- Keeping the data 'forever'
- Coping with obsolescence
- Migration
- Emulation
- Standards: OAIS and all that
- Planning and strategy



Conservation of Analogue Content

- Handling, packaging and storing
- Environmental conditions
- Protecting the masters
- Condition monitoring

Preservation of Digital Content in *Annual Preservation Status Report*

- Handling, packaging and storing
- Handling: fixity check
- Packaging:
 - Wrapper formats
 - Encodings
 - Embedded metadata
- Storing:
 - Storage technology
 - Cost models: century store; “forever” costs
- It’s all on the PrestoCentre website

Environmental conditions

- The *social, political and economic* environment of a Trusted Digital Repository
- A lot of work has been done: TRAC, DRAMBORA
- **TRAC Criteria Documents**

A1.2 Contingency plans, succession plans, escrow arrangements (as appropriate)

A3.1 Definition of designated community(ies), and policy relating to service levels

A3.3 Policies relating to legal permissions

A3.5 Policies and procedures relating to feedback

A4.3 Financial procedures

A5.5 Policies/procedures relating to challenges to rights



- B1 Procedures related to ingest
- B2.10 Process for testing understandability
- B4.1 Preservation strategies
- B4.2 Storage/migration strategies
- B6.2 Policy for recording access actions
- B6.4 Policy for access
- C1.7 Processes for media change
- C1.8 Change management process
- C1.9 Critical change test process
- C1.10 Security update process
- C2.1 Process to monitor required changes to hardware
- C2.2 Process to monitor required changes to software
- C3.4 Disaster plans

Protecting the masters

- Analogue content needed *viewing proxies*
 - For protecting of the masters
- Digital content needs *viewing proxies*
 - For protecting the bandwidth !
- Three-level approach:
 - Master EDCine: lossless JPEG2000
 - Mezzanine: the most efficient coding for generating new proxies EDCine: lossy JPEG2000
 - Viewing proxies (could be multiple quality levels) EDCine: lower datarate lossy JPEG2000

Condition monitoring

- Analogue: check the stock on the shelves
- Digital: check the stock (test the files)
 - Fixity check
 - Beyond fixity:
 - Identification: fingerprint technology
 - Quality analysis: technical measurements on the audio and video signals contained in the files
 - AND – check the ‘shelves’: test the storage system
 - Monitoring needs cost modelling, to set a cost-effective strategy

Lots to manage !

- Lots of help from the PrestoCentre
- Including risk and cost analysis and strategy and simulation tools from PrestoPRIME
 - over to Matthew Addis