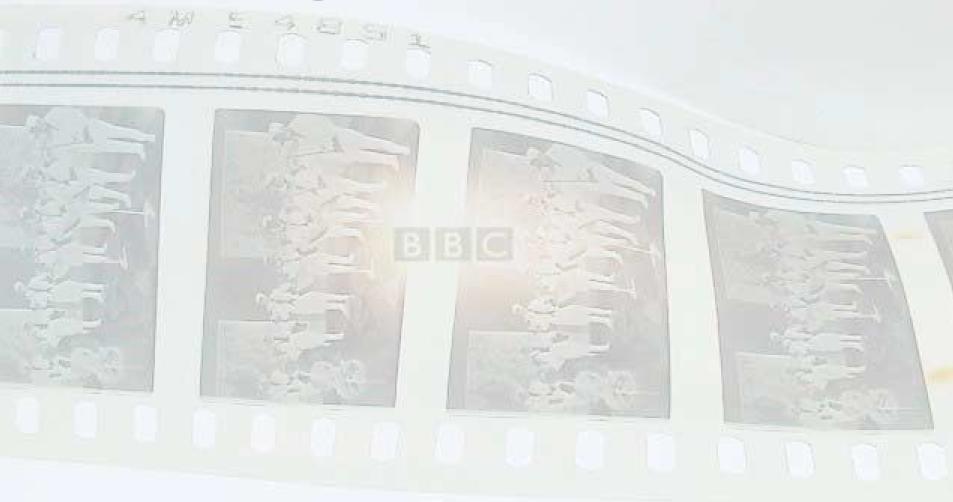
Preserving TV & Broadcast Archives

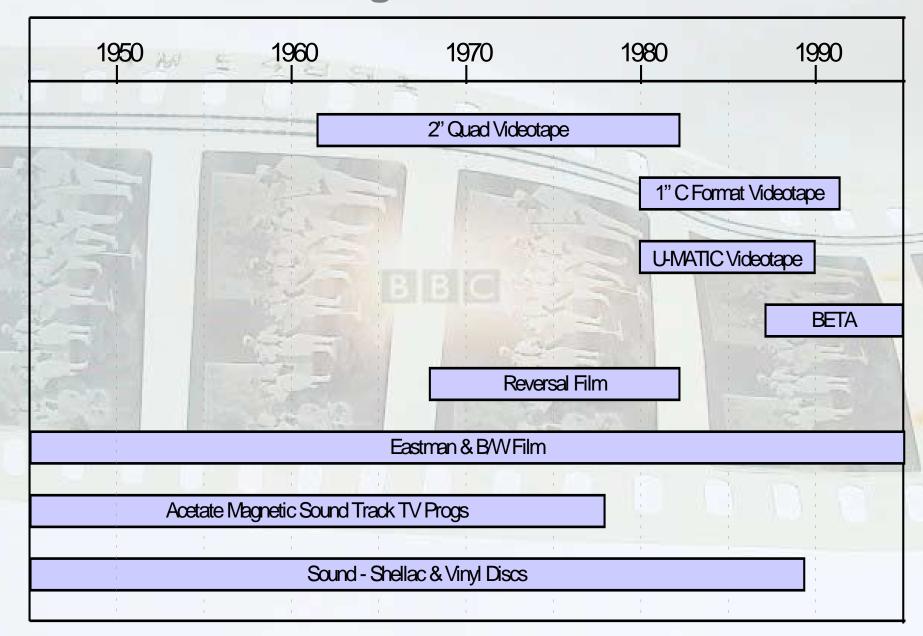


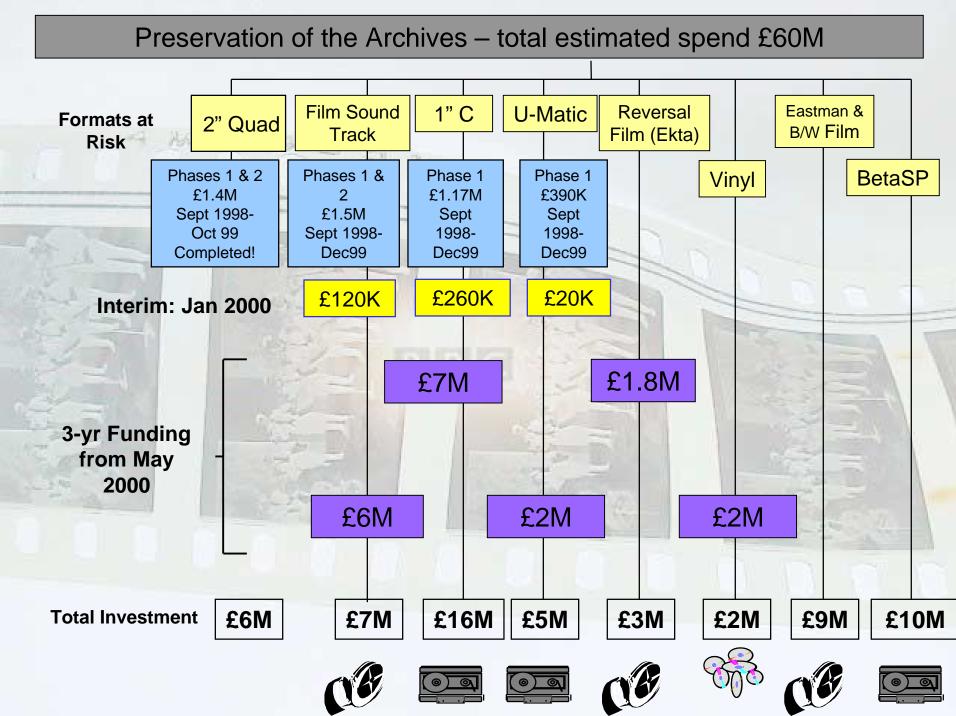
June 2002 Adrian Williams

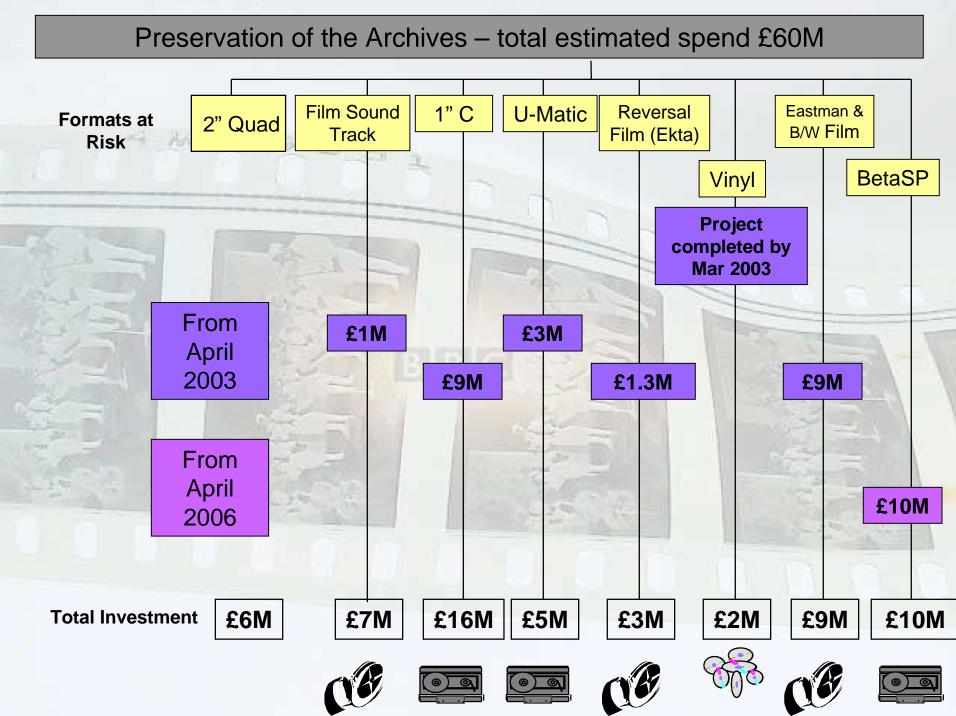
Size of the Archive

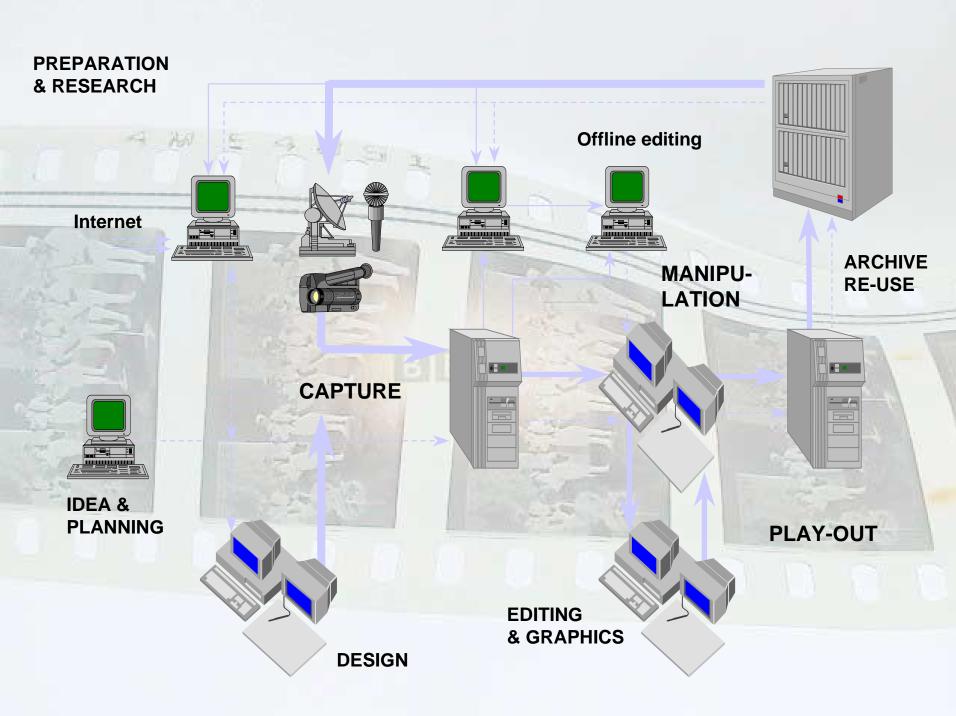
- The BBC has one of the largest multi-media archives in the world
- 1.75 million items of film and videotape
- 800,000 radio recordings
- 3 million photographs
- 1.2 million commercial recordings
- 4 million items of sheet music
- 22.5 million newspaper cuttings
- 600,000 document files
- 20,000 rolls of microfilm
- 500,000 phonetic pronunciations

Usage of Formats











http://presto.joanneum.ac.at/index.asp

















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EC Project Presto

GOAL: reduce preservation cost 30%

• 24 months, 10 partners, 4.8 M€

•BBC, INA, RAI

7 technology partners

Audio: ACS

Video: e-vod, S&W, Vectracom

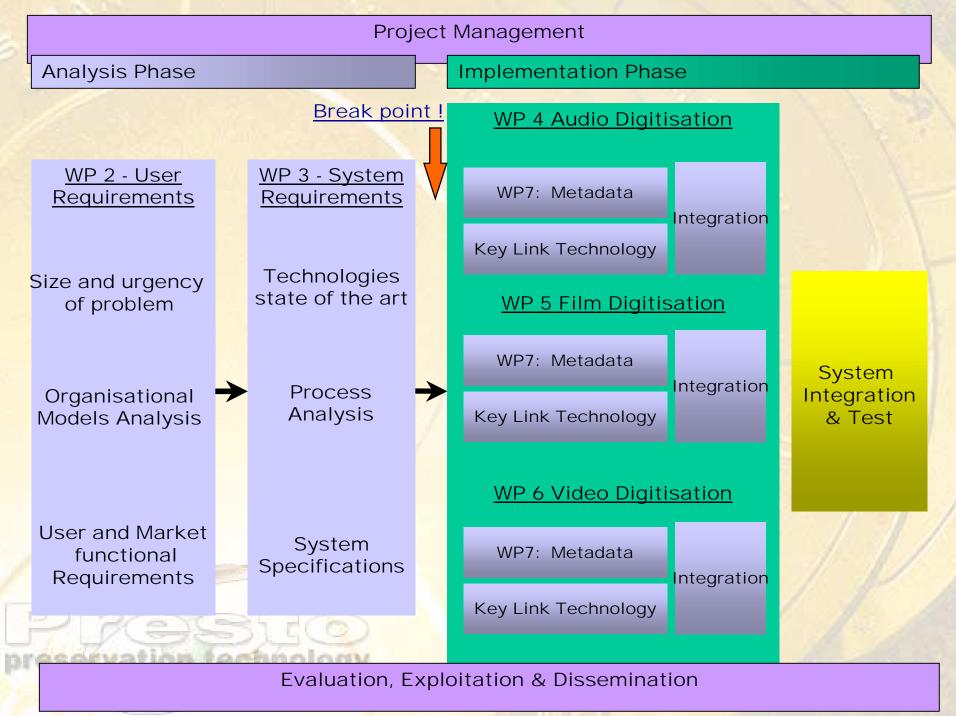
Film: NTEC

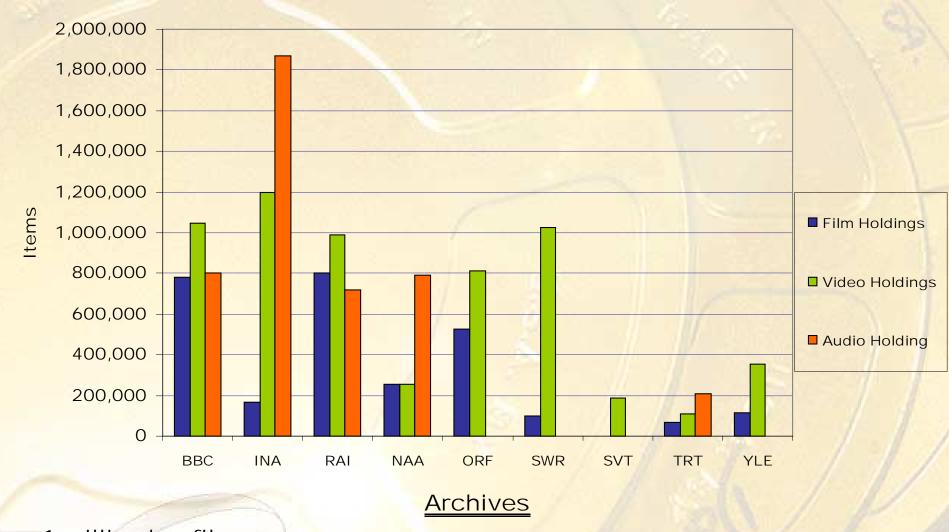
-Subcontracts: Bertin; ITK

General: JOANNEUM, ITC/IRST

 7 other major broadcast archives in user group
 SVT, ORF, SWR, NRK, YLE, NAA, TTR







1 million hrs film
1.6 million hrs video
2 million hrs audio

Process Requirements

- End to end process
- Identification of costs

ervation technolo

- Development of cost effective approaches to batch processing Examples are:-
- automatic quality-checking equipment
- software for overall control of end to end process
- purpose built preservation areas to optimise equipment and streamline movement of material
- investment in in-house rather than contracted facilities
- Links to the wider business process (part of the overall information & media flow of a broadcaster)
- Link to future business (the future archive)

It is vital to the future of broadcasting and broadcast archives to have an increased appreciation of the value, not just the cost, of new technology



Cost per use: true cost of an asset is a total life-cycle cost

	Like for like preservation life cycle cost p/hr	Usage over life cycle	Cost per use	Mass storage preservation life cycle cost p/hr	Usage over life cycle	Cost per use
Film	2000€	5	400€	3000€	10	300€
Video	200€	5	40€	300€	10	30€
Audio	120€	5	24€	180€	10	18€

Digitisation and mass storage is about 50% more expensive, but is expected to double usage of an asset

The value of an item must be four times the preservation cost to be financially viable

One minute of sold or re-used archive material will pay for preservation of one hour of archive material



Key links developed by PRESTO

- Audio
- •Film
- Video
- Metadata

14 Detailed Reports; all on the Workshop Proceedings CD & Website

Audio

- Software: Audio Quality Monitor (ITC-irst)
- Document: Audio Transfer Process (ACS)
- Device: Audio Playback Improvement (RAI)
- Tests: Audio Lossless Compression (RAI)

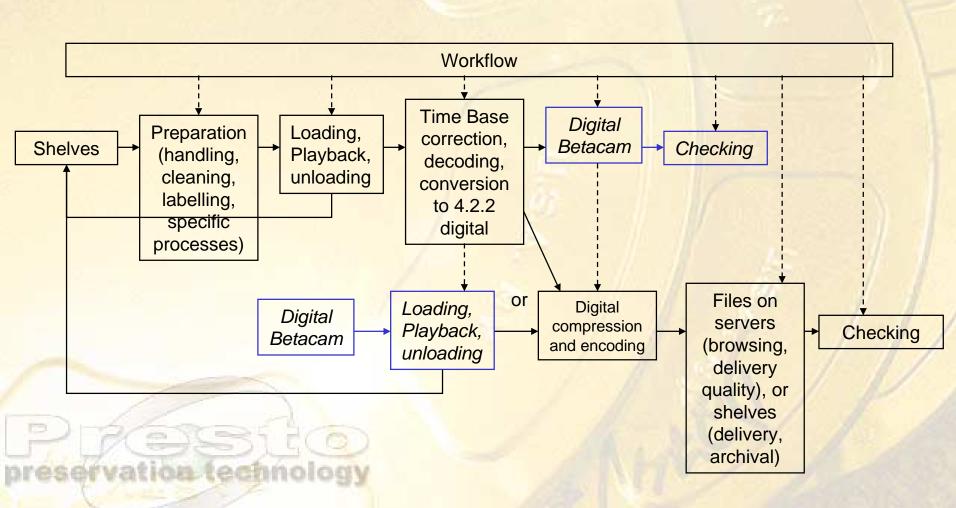
Film

- Device: Auto-resplice machine (INA; Bertin)
- Document: Sustainability of Broadcast Film Archives (ITK)
- Software and Specification: High Quality Format Conversion (JOANNEUM)
- Tests: Lossless and near-lossless compression for film (and video) (JOANNEUM)

Video

- Devices: Digitisation quality monitoring / logging (INA, Vectracom, ITC-irst)
- Device: Time base corrector with drop out detection and compensation (S&W)
- System Integration, Tests and Document: Multilevel encoding (e-vod)

Preservation and Distribution: the video transfer chain



Metadata management

- Documents
 - Metadata and the Preservation Workflow (the workflow IS metadata management)
 - Guide to Metadata (how to use metadata to reduce costs and increase quality, and not get lost in the maze of metadata standards)
- Software: Common access to broadcast archives (Broadcast OPAC; using standards)

Conclusion

- Everything online now is impossible
- Browsing quality within seconds starts to be possible on large databases
- Usable quality within minutes on selected samples possible
- When transferring

a technology

- Make a high quality copy
- Make a browsing quality copy, put it on line
- Put effort on indexing
- Work to prepare a near-on-line copy
- Have a 10-20 years plan...

Conclusion

Europe requires a dedicated preservation factory





http://presto.joanneum.ac.at/index.asp

















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