PrestoPRIME
FP7-ICT-2007-3 231161

General Presentation
Jean-Hugues Chenot, INA

PrestoPRIME
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- 7th Framework Programme for research and technological development
- 3rd Call
- Integrated Project – 42 Months
- January 2009 -> June 2012
- INA, BBC, RAI, JRS, B&G, ORF, ExLibris, Eurix, Doremi, Technicolor, IT Innov.,
- Vrije Universiteit Amsterdam, Universität Innsbruck, European Digital Library Foundation
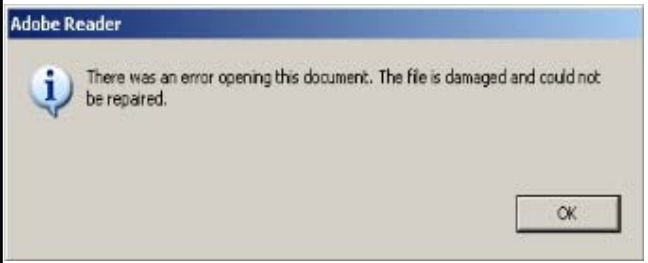

Issue

- Audiovisual contents are more and more managed as de-materialised digital objects
- Edits and various transforms lead to considering them no more as static, but rather as dynamic objects, containing not only signal, but also links, context, and associated rights.

Ooops !

Adobe Reader

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OK

Project origins

- Presto *(2000-2002, BBC coordinator)*
  - Digitising Audiovisual contents to make them accessible
- PrestoSpace *(2004-2008, INA coordinator)*
  - … In a rational and industrial way (Preservation Factory)
- PrestoPrime *(2009-2012, INA coordinator)*
  - Ensure permanence and accessibility of these digitised contents

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Objectives (1/2)

- Solutions for long-term preservation of objects, programmes, and collections of digital audiovisual contents,
- Solutions for facilitating access to these collections by integration of with online digital libraries
  - Tools for metadata migration and deployment, processes for alignment, annotation, vocabulary services, User-Generated Contents and metadata.
  - Risk, quality, and integrity management of contents
- Integration, demonstration, evaluation, of such tools and processes for audiovisual digital permanence and access.
- …

Objectives (2/2)

- …
- A Competence Centre for Audiovisual Heritage Preservation & Access
  - Expert evaluations, audits recommendation, best practise guides, reference documents, service providers registries
  - Access points to tools and technologies issued from PrestoSpace and PrestoPrime
  - Inception of an European Audiovisual Archives Association (E3A)

15 Partners :

- 5 Archive institutions, with associated R&D departments :
  - Ina (coordinator), RAI, BBC, Beeld en Geluid (Sound & Vision, NL), ORF.
- 5 Research partners, including 2 applied research institutions :
  - Joanneum Research, IT Innovation, Universities of Liverpool, Innsbruck, Amsterdam.
- 4 industrial partners, including 2 PME :
  - Eurix, Ex Libris, Technicolor, Doremi.
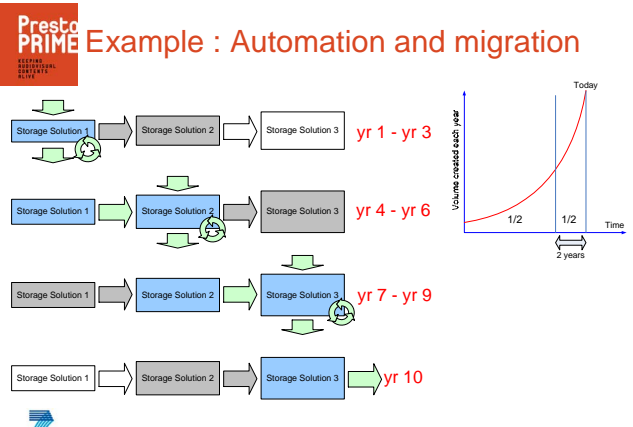- Europeana, (European Digital Library), through EDL Foundation

Europeana : an essential partner

Example : Automation and migration

Example : What do you want to lose and when?

- No compression (e.g. RAW)
  - Huge data volumes, robust to file corruption (relatively)
  - But can you afford enough copies? ☹
- Lossless compression (e.g. JPEG2000)
  - 2 copies for the price of 1, more sensitive to file corruption, needs more checking
- Lossy compression (e.g. MPEG4)
  - Upfront sacrifice quality for data volume, lower storage cost = many copies ☺, but interframe compression very sensitive to file corruption, and nasty things can happen during further format migration
- Lose everything else if you have no money left!

More specifically…

- Doremi :
  - Development and encoding of JPEG2000 for video (SD & HD), as a candidate to be the « high quality reference archive format »
- RAI :
  - Automated rights management
- IT Innovation, U. Liverpool, Ex Libris, BBC
  - Distributed and secured storage management : Evaluation/comparison of existing approaches (iRODS…)
- U. Liverpool
  - « Multivalent » persistent decoding of digital audiovisual formats
- …

Presto PRIME — More specifically…

- …
- Vrije Universiteit Amsterdam
  - Use of UGC (User-Generated-Contents) and User-Generated Metadata for indexing (example : the « tagging game »).
- Joanneum Research
  - Quality measurement and monitoring
- Joanneum Research, Vrije Universiteit Amsterdam
  - Metadata Interoperability
- Eurix, ExLibris
  - Integration, Workflows, integration of results…
- …

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Presto PRIME — More specifically…

- …
- Ina : Indexing through detection a a large scale of repeats in broadcast contents.
  - Detection and trimming of credits/commercials/teasers/rebroadcasts/excerpts, provenance, link with accessible databases (Europeana/IMDb/ISAN/DailyMotion…)…
- B&G, INA, BBC
  - Development of the Competence Centre
  - Inception of E3A
- …

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Presto PRIME — Connected projects

- Europeana 1.0
- Europeana Connect
- European Film Gateway
- VideoActive / EUscreen

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