



PrestoPRIME

FP7 3rd Call

Integrated Project – 42 months

Starting date: 1/1/2009- ending 30/11/2012

Partners: INA, BBC, RAI, B&G, ORF, JRS, ExLibris, Eurix, Doremi, IT Innov, Vrije Universiteit Amsterdam Universität Innsbruck, University of Liverpool European Digital Library Foundation







PrestoPRIME Summary

- R&D for the long-term preservation of digital audiovisual objects, programmes and collections. Increasing access by integrating the media archives with European on-line digital portals in a digital preservation framework.
 - O1 To research and develop means of ensuring the permanence of digital audiovisual content in archives, libraries, museums and other collections.
 - O2 To research and develop means of ensuring the long-term future access to audiovisual content in dynamically changing contexts.
 - O3 To integrate, evaluate and demonstrate tools and processes for audiovisual digital permanence and access.
 - O4 To establish a European networked Competence Centre to gather the knowledge created by PrestoPRIME and deliver advanced digital preservation advice and services in conjunction with the European Digital Library Foundation and other projects.







- Models and Metadata for Audiovisual long-term preservation
- Storage strategies and rule sets for preservation
- Processing and workflows for Audiovisual migration
- Content quality appraisal and risk management
- Multivalent approaches to long-term AV media preservation
- Infrastructures for AV content storage and processing
- Metadata interoperability for access
- User-generated and contextualised metadata
- Content provenance and tracking
- Audiovisual rights modelling at European level
- Integration of Archives, Libraries and user generated content
- Audiovisual Competence Centre





WP2 - Models and environments for Long-term Audiovisual Preservation

- What does long term mean? Making digital preservation explicit and specific in audiovisual context
- How are preservation actions implemented? Sequence of operations beyond usual IT system timescales

Strong relation to implementation WPs (3 and 4)







WP3 – Data management and processing for media preservation

Implementing the strategies, tools, models, rules from WP2

- Processing and workflows for audiovisual migration
- Content quality appraisal and risk management
- New and complementary alternatives to migration based strategies by using a multivalent approach
- Infrastructures for audiovisual content storage and processing







WP4 –Long-term audiovisual access and use in changing contexts

- Mapping of metadata models and vocabularies
- User generated metadata strategies
- Video fingerprinting for content tracking and identification
- Rights modelling at European level







WP5 –Integration and validation

- Software infrastructure, services and collaborative tools
- Preservation platform implementation
- Integration of PrestoPRIME software with a commercial system







WP6 – A European Audiovisual Competence Centre

- Community portal for the audiovisual domain on digital preservation and digitisation
- Information portal for digital preservation knowledge, best practices, tools and services
- Dedicated services for content holders
- Network of associated information institutions
- Strong link with Europeana





The Competence Centre



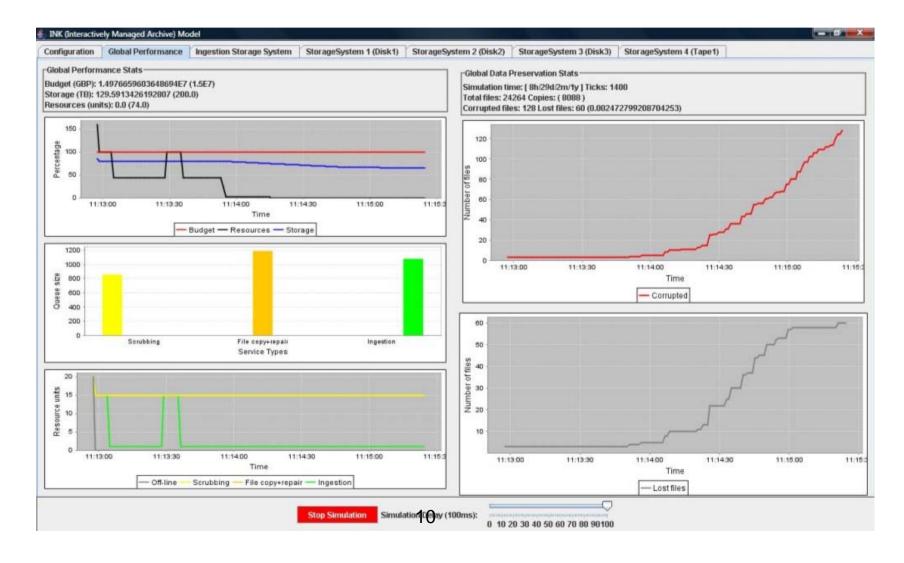
PrestoSpace Setting up and results managing a networked PrestoDigital **Competence Centre** results **Competence Centre** Specific Tools Guidelines **Expertise Technical Audits Documentation Audits** Long-term **Traditional** Service Provider identification Preservation Audiovisual **Archive** and Access Digitized and Specific Technology Preservation Plan **Documented** Identified Service Providers Collections



Tools for Storage management



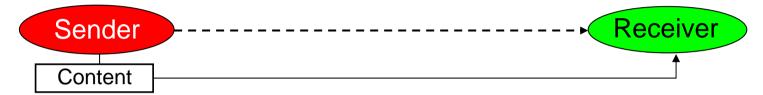
Long-term mangagement: Total Cost of Ownership thourgh 20 years. Interactive simulation interactive: «what happens if? », « what are my informations? »



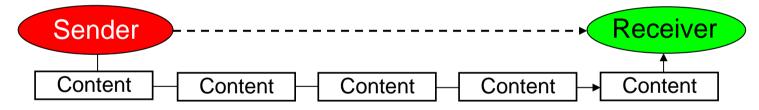
Three ways of sending Digital contents to the Future:



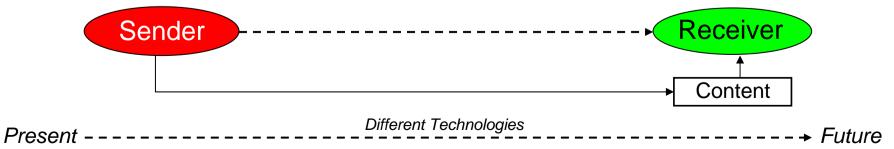
1) Change now, recover later



2) Change continuously



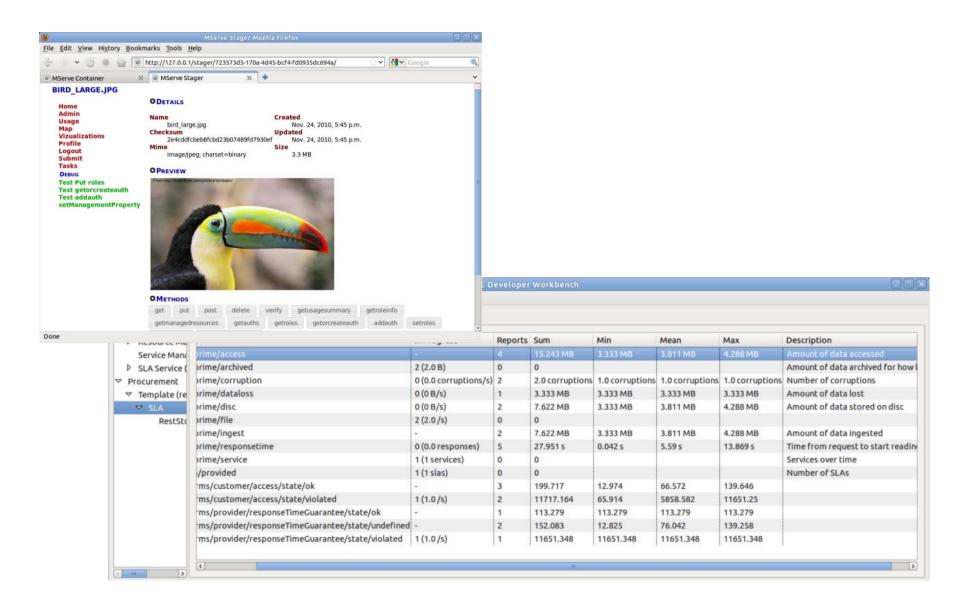
3) Don't change, it will be solved later





Simulation of the incidence of Service Level Agreements on long-term storage



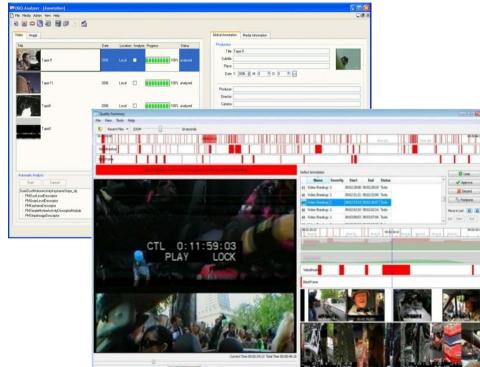




Tool integration and demonstration ina



- Quality Analyser Module
 - File based import & batch analysis
 - Detectors
 - Video Breakup's
 - Noise & Grain
 - Uniform Colour's
 - Test Pattern's
 - Standardised temporally detailed quality description



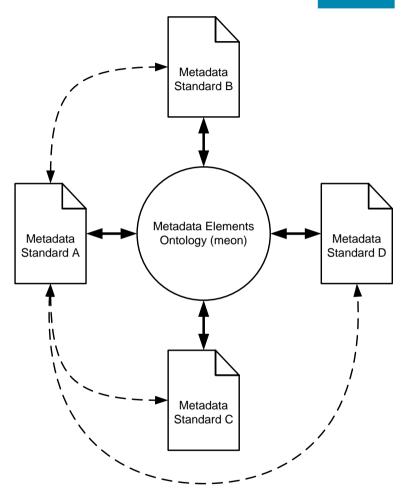
- Quality Summary Module
 - Temporal quality summarisation
 - Efficient Human Validation



Metadata mapping



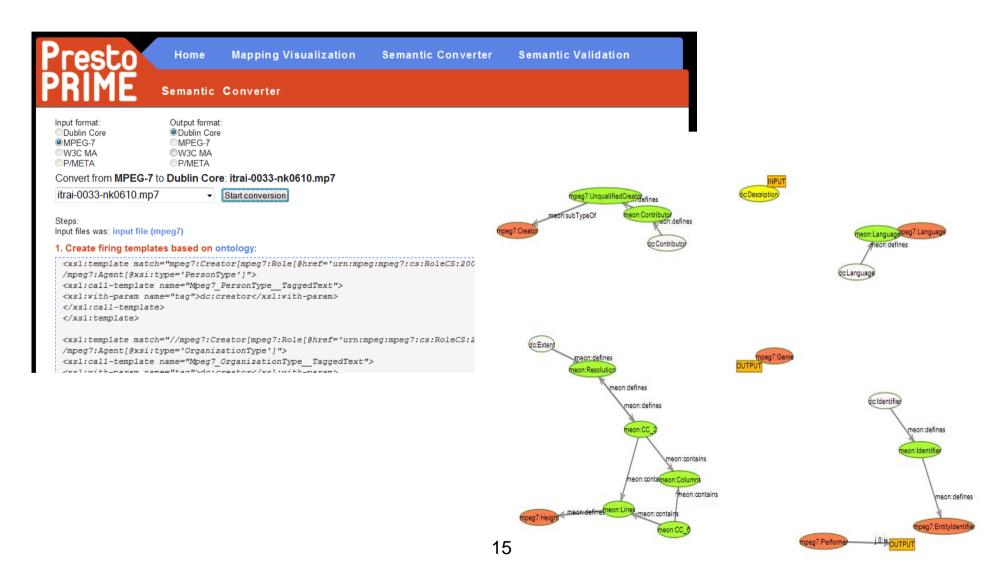
- Avoid hand-crafted 1:1 mappings between metadata formats
- Use a high-level intermediate concept representation
- Infer relations between concepts in source and target formats
- Express mapping templates on data type level
- Derive the code for mapping instructions between a pair of formats





Metadata Mapping service (back-office)







Metadata Visualisation service





validator references contact disclaimer FAO

A Semantic Validation Service for MPEG-7 Profile Descriptions

Type the MPEG-7 Document http://vamp.joanneum.at/data/examples/a or use the following demo examples/a	avdp_5_1_GenericAudioOrVideoDescriptions.xml
2. Select MPEG-7 version:	imple
MPEG-7 v1 (2001) MPEG	G-7 v2 (2004)
3. Select profile:	
○ DAVP ○ TRECVID	
4. Select semantic validation ty	rpe:
▼ Profile validation (default)	☐ Temporal validation
	Validate!



Video fragment annotations through crowdsourcing: ina

Waisda? video labeling game





Engagement with the public

- 44,362 pageviews
- 555 registered players and thousands of anonymous players

Time-based annotations

- 600 videos tagged
- 340,000 tags added
- 42,000 unique tags

Vocabulary gap

Tags provide a user perspective on the collection



Community consensus as a measure of 'usefulness'

Players score points when their tag exactly matches the tag entered by another player within 10 seconds

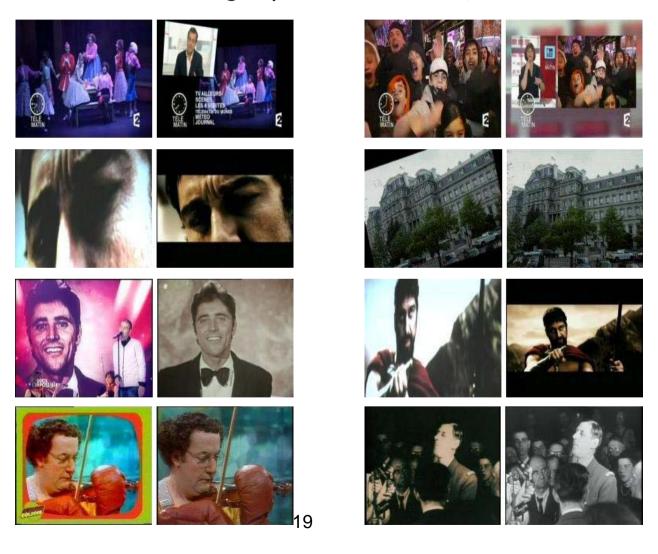




Content Tracking



•Fingerprints allow detecting repeated contents, even when changed



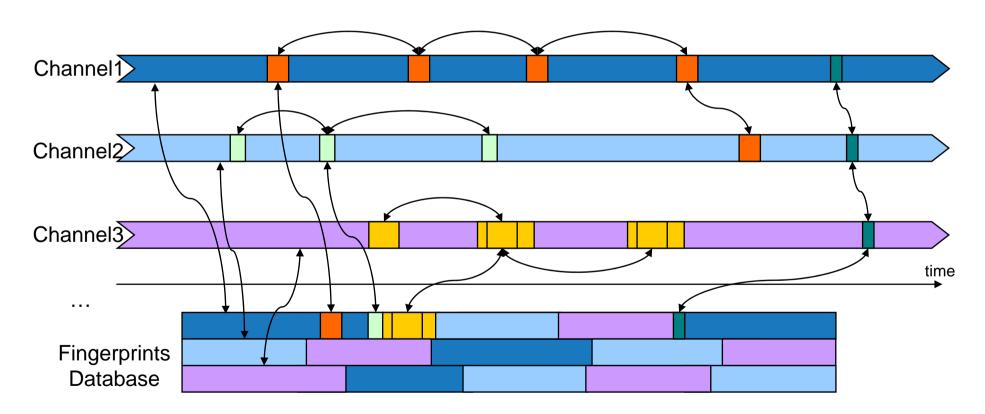


Content tracking through redundancy



Using large-scale audio+video redundancy to help indexing

Building up a fingerprints database without (too many) repeats





Automatic classification of groups of repeats:



Early results



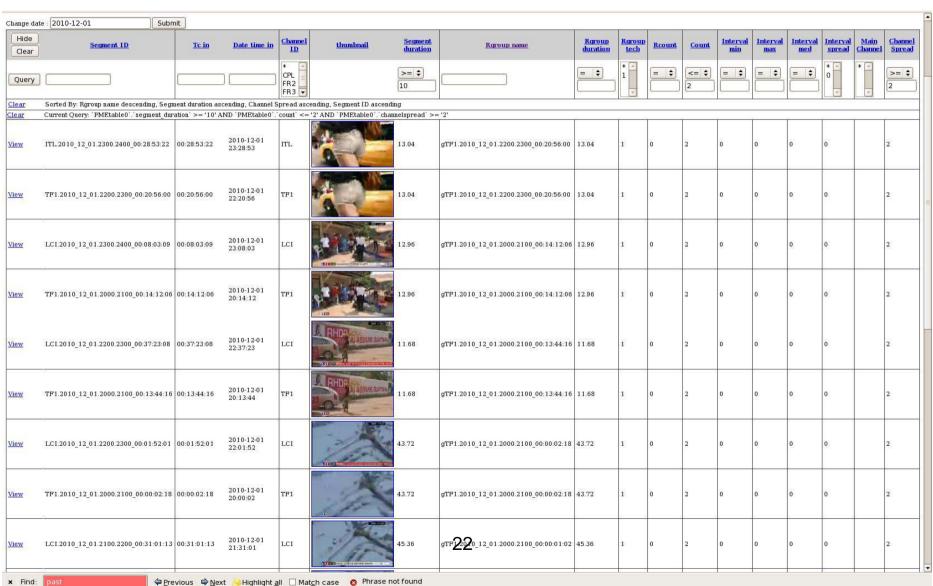




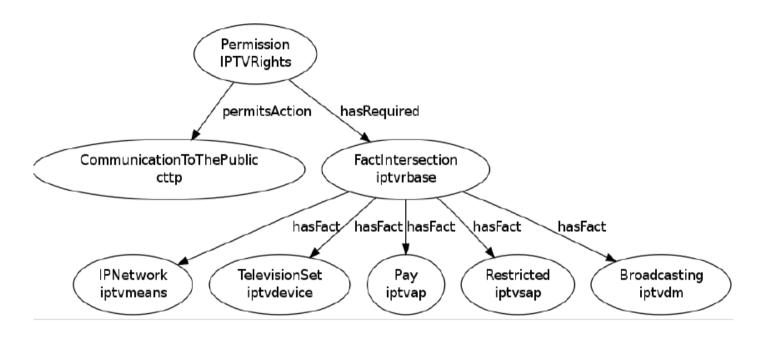
Automatic classification of groups of repeats:



•Exemple: Excerts repeted twice on two different channels



Rights Management Ontology: Example: IPTV ina



from Glossary of Rights

IPTV: The rights to make any linear transmission and delivery of a television signal using IP-based protocol via a dedicated private (or virtual private) network infrastructure and where access is restricted to only viewers that have subscribed to the network service provider for the right to receive such programming through such network for viewing on a television set





Objectives for the PrestoCentre

Reduce the gap between Research, Industry, Service Providers and... Audiovisual Archives (of any kind)

- -Identify and organise knowledge and information so to permit digital preservation to advance and accelerate
- -Develop and promote the collaboration among the actors of the Audiovisual domain
- -Promote access to digital Audiovisual contents
- -Develop an information centre for Audiovisual content owners with state of the art and innovative processes
- -Develop specific Services in order to simplify and give impulse to digital preservation and access





PrestoCentre.eu

Identify and organise knowledge and information so to permit digital preservation to advance and accelerate

Available documents on the PrestoCentre site: www.prestocentre.eu (reports, online information, technical wikis, etc.) and Services on demand

Best practice reports and guides

Annual reports on digital preservation in Europe

Technical reports

Information and guidelines to promote access to digitized contents (Europeana)

Guides on Business models and Public Private Partnerships

Training tools

Technical assistance

Technical developments (R&D) for Archives and Libraries

Finance search assistance

Preservation plans for small and medium Audiovisual collections





PrestoCentre.eu

Develop and promote the collaboration among the actors of the Audiovisual domain

Coordination with international organisations (FIAT, IASA, etc.)
Networking Service Providers, experts and audiovisual
collections

Development of a community of user (conferences, summer courses)

Professional training activities Expertise services

Promote access to digital Audiovisual contents

Digital Portals
Strategies for right management
Metadata exchange



PrestoCentre.eu



Domain Registries

Several registries permit to identify and network different actors of the domain at a European and International scale

Audiovisual archives Registry (large, medium and small collections)

Registry of Service Providers specialized in the Audiovisual domain (all activities, from analogue to digital transfer, to documentation, storage and exploitation

Registry of experts, managed by the PrestoCenter, identifying experts for technical, documentation and legal expertise

Registry of industrials of the domain





PrestoCentre.eu is:

- A large library of good practice codes, reports on monitoring, technical watch reports, business-models, training material, white books, technical analysis and synthesis, evaluation papers. Etc.
- Interactive tools, preservation simulators, cost calculators, risk assessment tools, storage calculating tool, decision making diagrams for digital formats, etc.
- Registries for Service Providers, technological providers, industrials, consultants, experts, etc.
- Dedicated tools issued from PrestoSpace and PrestoPRIME
- A policy orienting instance in relation with the European Commission





PrestoCentre.eu is <u>not</u>:

- •Money for digitisation (you will still have to fight for it)
- A broker for digitisation services: the PrestoCentre fosters the relations and monitors them without interfering
- A substitute to efficient international federations which are already making a wonderful job





However, PrestoCentre.eu is

- A repertoire of financing bodies, call for tenders, guidance for finance search, assistance for tender calls, assistance for PPP, licensing models, SLAs and
- A repertoire of running European projects on Digitization and Digital Preservation
- Regular News: RSS calendar, newsletters, Forum, social networks
- International meetings, summer courses, training sessions, test sessions; an open space for all

PrestoCentre has the ambition to be more than the result of a project, and to become a permanent actor of the domain





PrestoCentre.eu Founders

- •The founding members of the PrestoCentre are five large European Audiovisual archives highly committed to digitization and access: BBC, B&G, Ina, ORF and RAI.
- A collaboration tool to improve exchange and knowledge
- A governance tool: each Archive is represented in a board to follow the activities of the Centre
- Establishing a Director and a team for the PrestoCentre
- Financing through the PrestoPRIME project until 2012; further financing through other projects
- A starting point for a wide European collaboration among broadcast archives
- A responsibility given to the Centre by the European Commission



Competence Centre: Prestocentre.eu



PrestoCentre Launch

-International Conference held on March 14 and 15 at B&G Hilversum



