

Diversity in Expression, Diversity in Representation: Automation and Experimentation in Digital Preservation

The Law of Unintended Consequences
ACA@UBC 2011 International Symposium
Frederic Wood Theatre, UBC



Dr Seamus Ross,
Dean and Professor iSchool University of Toronto



Photo: Rachel DeCoo at Shima Museum of Modern Art

Where we will be going

- A Little Background
- Spreading the News
- Discovering what is there
- Selecting/Appraising
- Automation (an example)
- Designing Repositories
- Measuring and Managing Risk
- What next



Background

- Archives and Libraries have long played a critical role in the transmission of scientific knowledge and culture.
- As they undergo a metamorphosis from the physical to the virtual they continue to serve this role, although their nature and reach may be very different.



© HATII UofGlasgow, 2005

Library at Hadrian's Villa at Tivoli



© Seamus Ross, HATII UofGlasgow

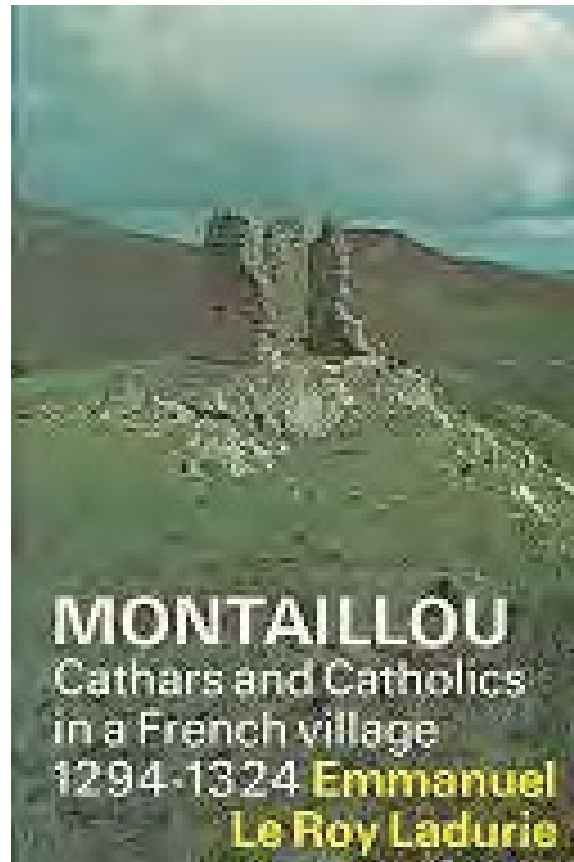
Digital Repository Hardware
at Swiss Federal Archives

BEING COLONIZED

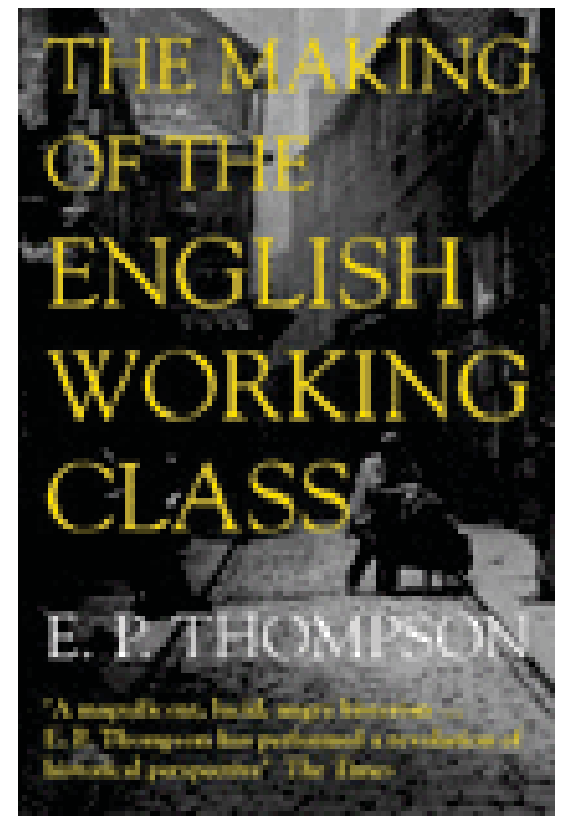
THE KUBA EXPERIENCE
IN RURAL CONGO,
1880-1960



JAN VANSINA



MONTAILLOU
Cathars and Catholics
in a French village
1294-1324 **Emmanuel**
Le Roy Ladurie

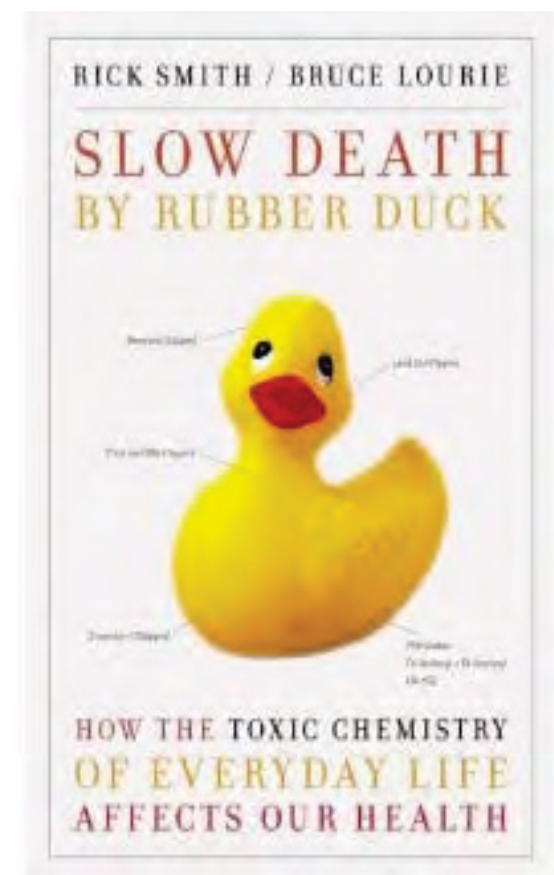
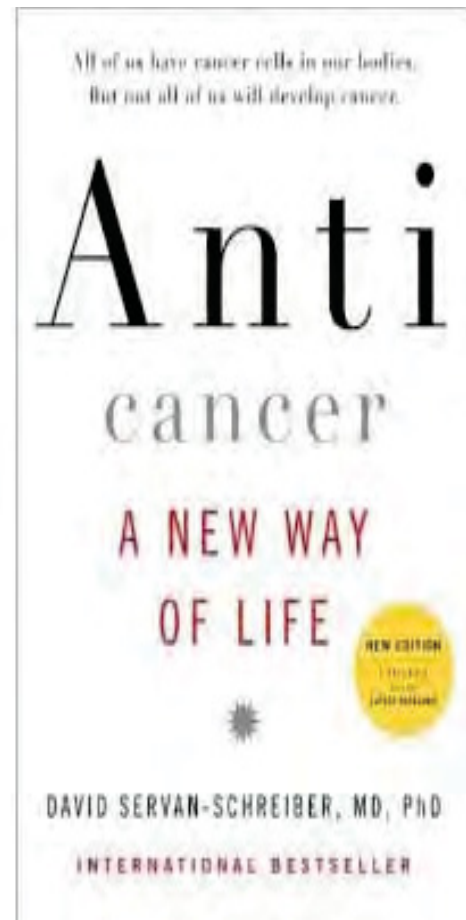
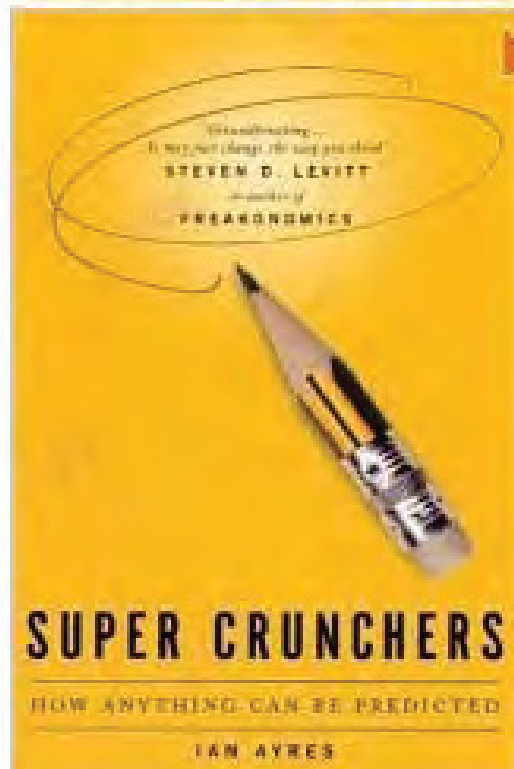


**THE MAKING
OF THE
ENGLISH
WORKING
CLASS**

E. P. THOMPSON

"A magnificent book, long awaited...
E. P. Thompson has performed a revolution of
historical perspective." *The Times*

Click to **LOOK INSIDE!**



Digital Objects Break

- Inaccessibility of digital object
 - Object becomes lost
 - Degradation of storage medium means content can not be read.
 - Technological obsolescence
- Syntactical interpretation or representation failures
- Semantic opaqueness
 - Lack of contextual information (e.g. suitable metadata)
 - Loss of Process & dynamic nature
- Legal impediments
- The organisation and its staff
 - Lack of organisational will - visible benefits
 - Decentralised and node-based organisation



Historic Media on Display at the Launch of the UK Digital Curation Centre (DCC), November 04
<http://www.dcc.ac.uk>



Preservation Risk is Actual

- It is technological.
- It is social.
- It is organisational.
- And it is cultural.
- Actual risks can be assessed and measured—actual risks can be managed.

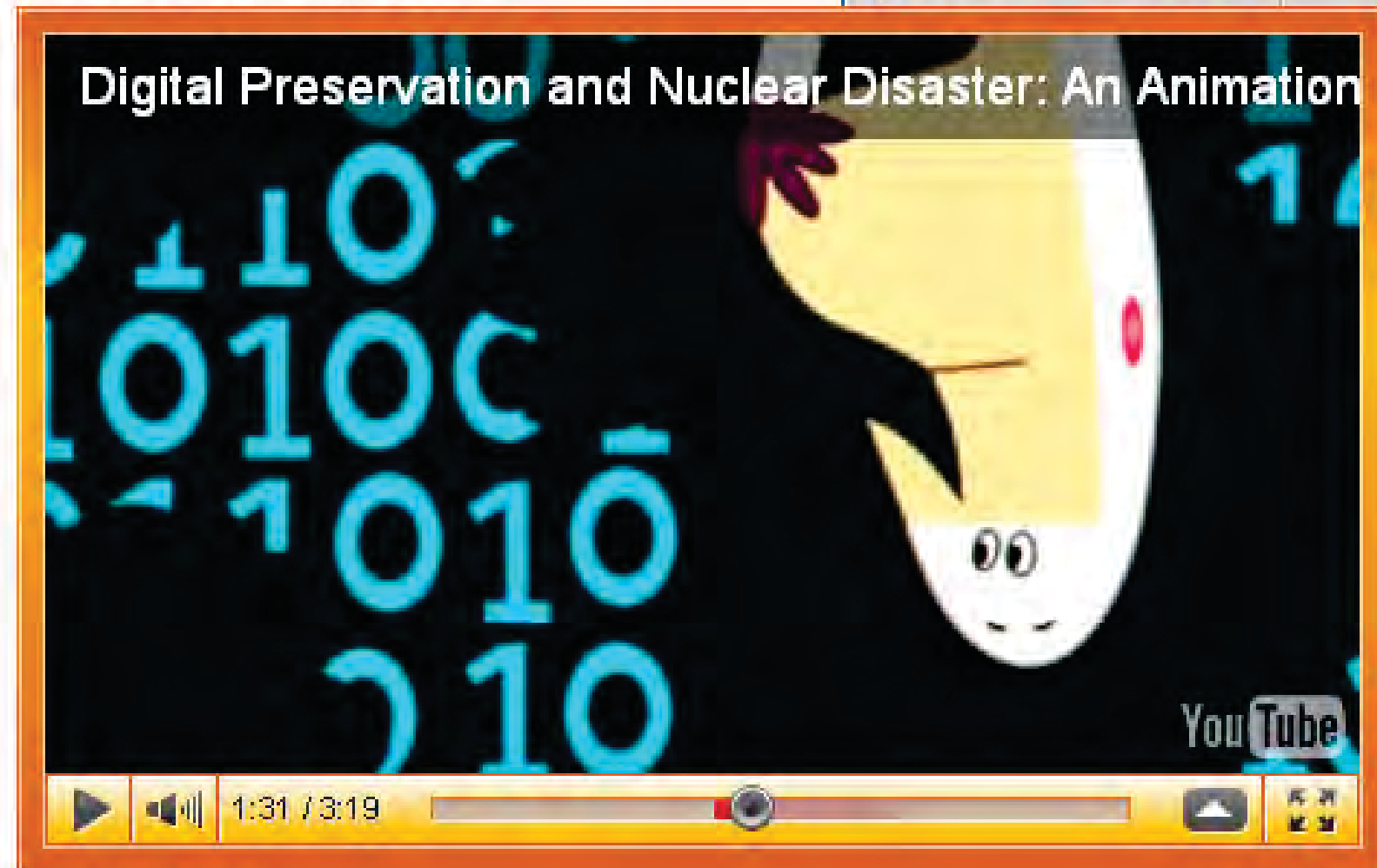
An Agitating Buzz about Things Digital

- We have successfully socially amplified the perception of risks associated with digital materials
- While there are 'risk amplifiers' and 'risk attenuators', preceptions of risk arise complex social and cultural processes
- Have we socially constructed our preceptions of preservation risk within a vacuum

Digital Preservation and Nuclear Disaster: An Animation

Posted on 6th May 2009

[Download This Video](#)



[see on youtube.com](#)

Digital Preservation and Nuclear Disaster: An Animation



★★★★★ Počet hodnocení 31

Počet zhlédnutí 11 485

Obíbené Sdílet Seznamy videí Nahlašit

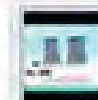
MySpace

Facebook

Twitter

[více](#)

Statistiky a další údaje



wepreserve

01 květen, 2009

[\(další informace\)](#)

Odkázat

Team Digital Preservation saves the world from nuclear disaster caused by the work of Team Chaos.

Adresa URL

<http://www.youtube.com/watch?v=pbBab0am7-w>

Ukázat

<objectwidth="560" height="340"><param name="m

Více od uživatele: wepreserve

Zastavit automatické přehrávání | Přehrát další

Seznam videí (56)

Isjals

☐ Přehrát náhodně

44		Digital Preservation...	3:19
		wepreserve	
45		Japan TOP-50 single...	7:03
		cdtv8	
46		How to make a play...	2:17
		Torley	
47		How To Make Lego Ma...	2:14
		TaylorM2002	
48		Google Maps Street...	1:43
		Google	

Podobná videa

Social Networking & Preservation



The image is a screenshot of the DigitalPreservationEurope (DPE) Facebook page. At the top is the Facebook header with the logo and login fields. Below this is a yellow banner that says "Sign Up DigitalPreservationEurope DPE is on Facebook". The page header for the DPE group shows the name "DigitalPreservationEurope DPE" and navigation tabs for Stream, Wall, Info, Videos!, Boxes, and Photos. The main content area is divided into three columns. The left column is titled "Discussion Board" and lists three discussion topics: "What is Digital Preservation" page, "How do you preserve your old digital photos?", and "Digital preservation problems?". The middle column is titled "Videos!" and features a video player showing a man speaking at a podium. The right column contains an announcement for the "3rd DPE The Preservation challenge: basic concepts and practical applications" event, a "Links" section with a SlideShare link, and an "Events" section listing the same challenge event.

facebook

Sign Up DigitalPreservationEurope DPE is on Facebook

Stream Wall Info Videos! Boxes Photos

Discussion Board
Displaying 3 discussion topics

"What is Digital Preservation" page - do you like it?
1 post. Updated on 09 January 2009 at 04:59

How do you preserve your old digital photos?
2 posts by 2 people. Updated on 04 December 2008 at 09:18

Digital preservation problems?
1 post. Updated on 24 November 2008 at 01:38

Videos!
Look at this sample below and check all our videos at:
<http://www.digitalpreservationeurope.eu/video-training/prague-2008/>

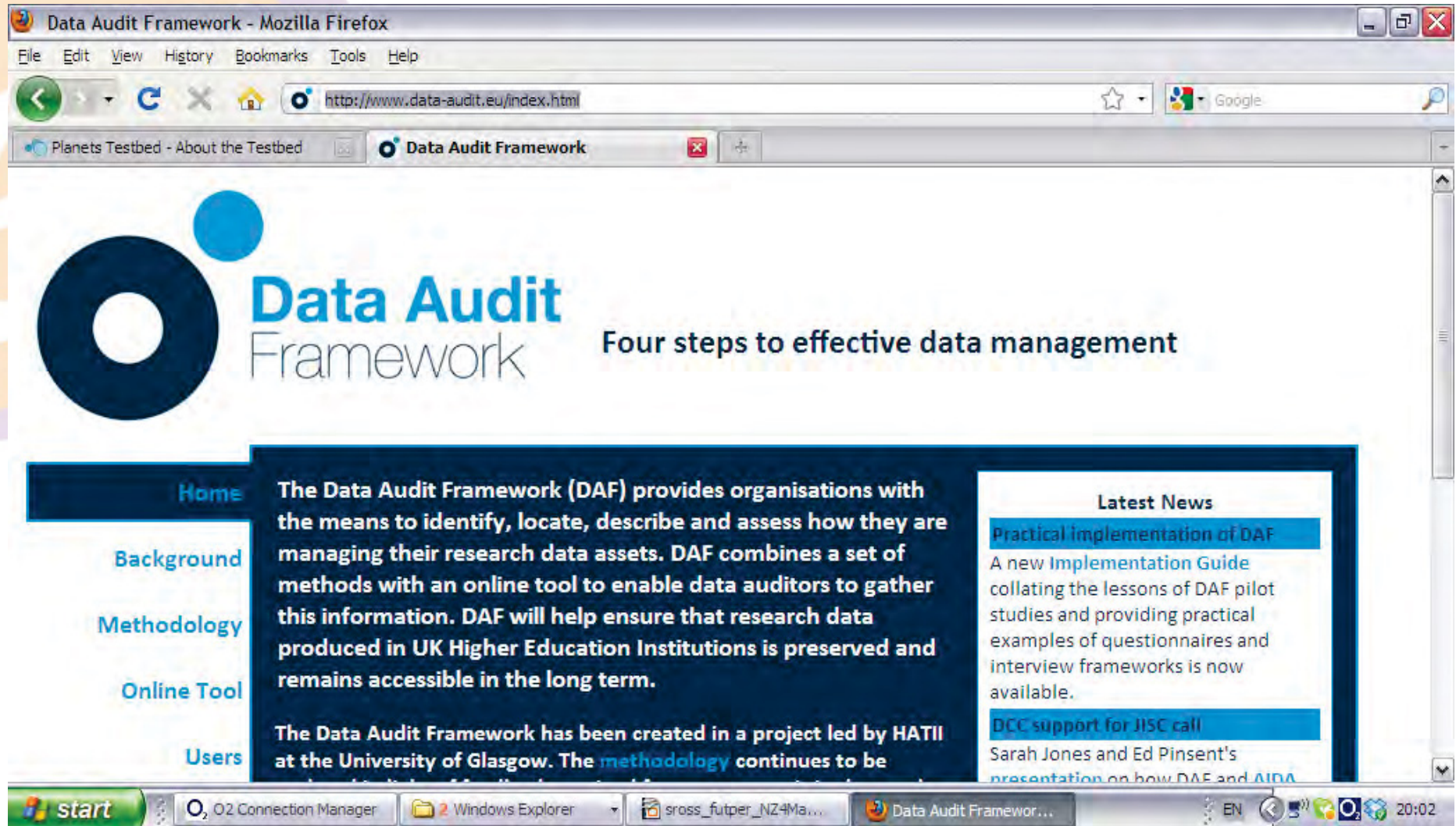
3rd DPE The Preservation challenge: basic concepts and practical applications 23-27 March 2009
DPE, Planets, CASPAR and nestor are delighted to announce that they will be delivering the latest in a series of collaborative training initiatives to introduce the Preservation Challenges. This event will be held in Barcelona, Spain from March 23-27 2009. For more information and to register for this event please visit <http://www.webpreserve.eu/events/barcelona-2009/>. Enjoy us in Barcelona, Spain!

Links
1 link

SlideShare: Digitalpreservationeurope's Slideshows (SlideShare is the best place to share powerpoint)
27 November 09:06

Events
1 upcoming event

DPE/Planets/CASPAR/nestor Join...
Faculty of Library and Information Science
23 March at 09:00



<http://www.data-audit.eu/index.html>



OAIS Model & Example

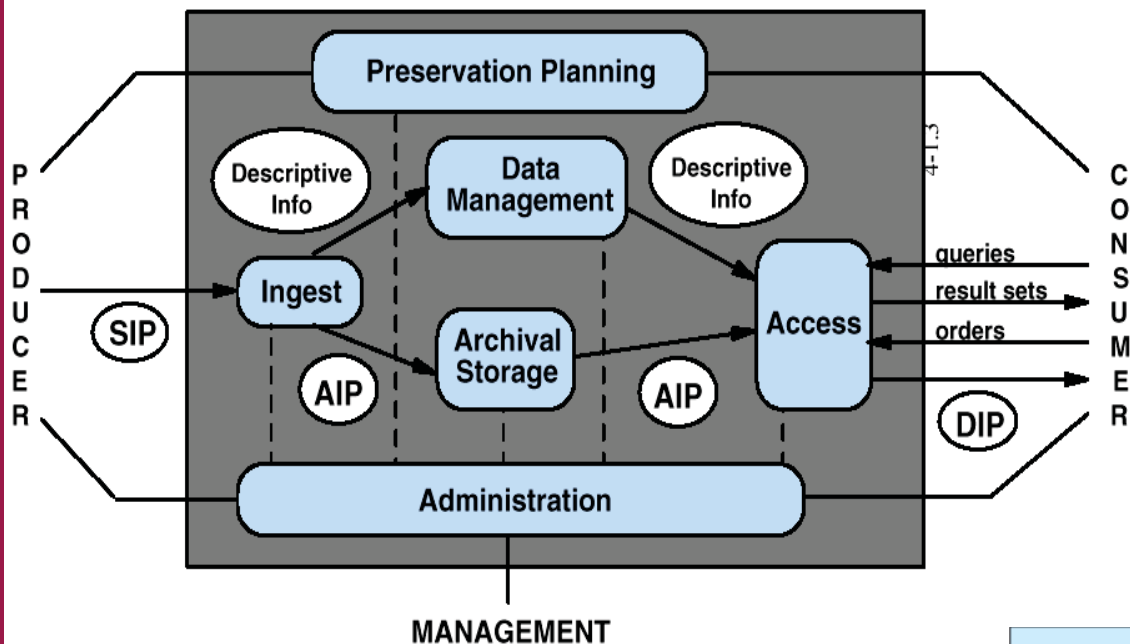
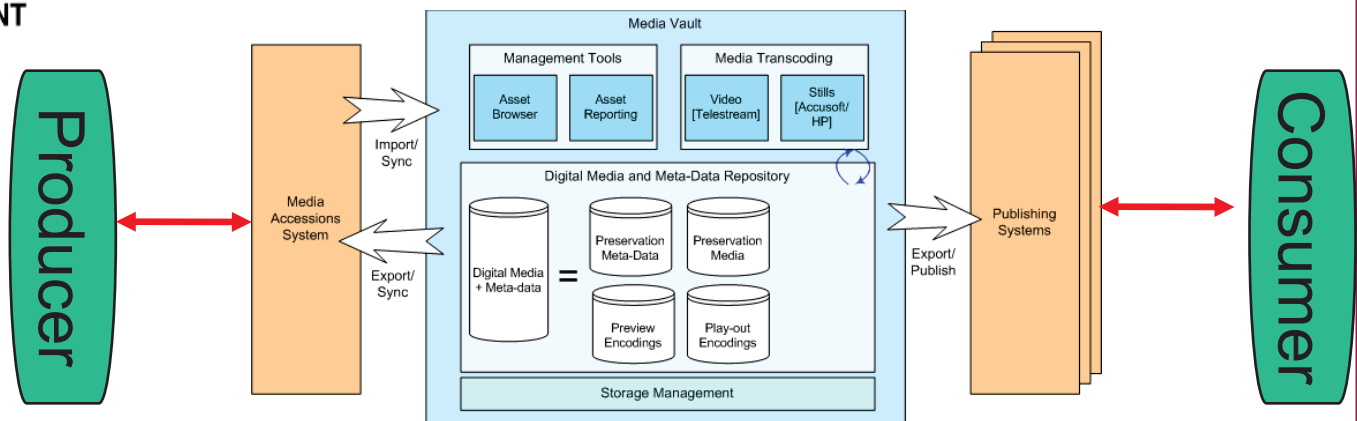


Image from -- Reference Model for an Open
Archival Information System
(OAIS) – CCSDS,2002,
<http://www.ccsds.org/documents/650x0b1.pdf>



ARKive Project (Bristol)

Repository Design

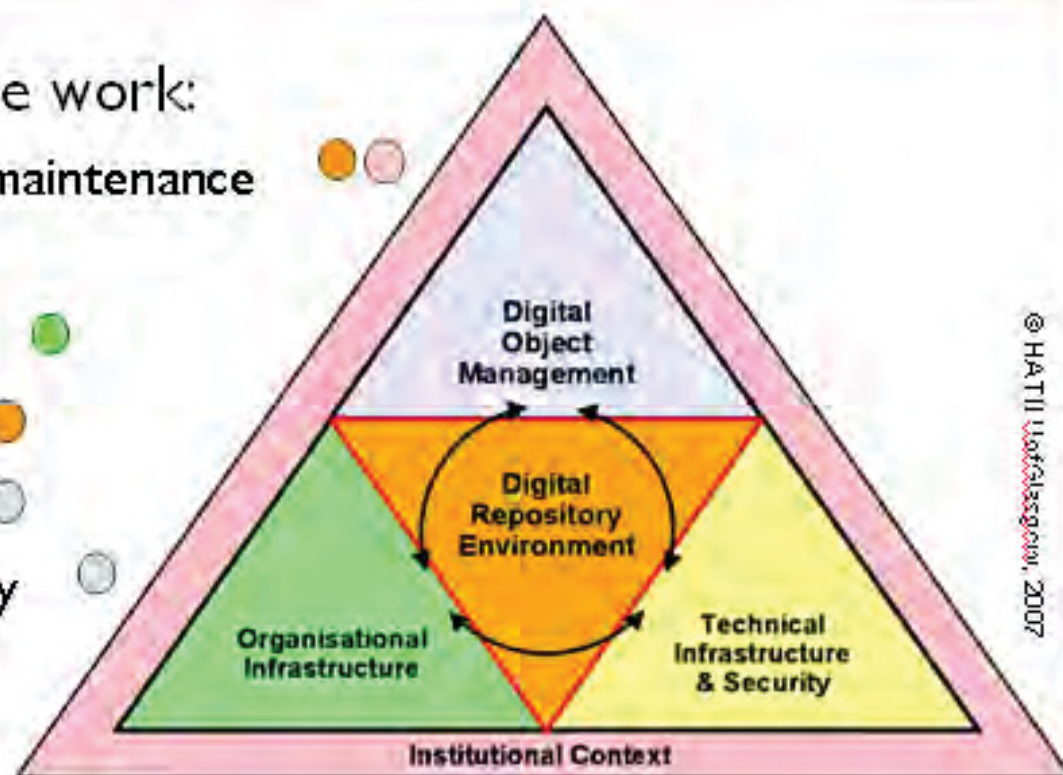
- Change will be a feature of repositories
 - Storage technologies
 - Services, close down of some and initiation of others (preservation action)
 - Workflows
 - Verification mechanisms
 - Policies & Procedures



Digital Repository Infrastructure, Swiss Federal Archives, Berne, October 2004

Digital preservation repository core criteria

- An intellectual context for the work:
 - Commitment to digital object maintenance
 - Organisational fitness
 - Legal & regulatory legitimacy
 - Effective & efficient policies
 - Acquisition & ingest criteria
 - Integrity, authenticity & usability
 - Audit trail and metadata
 - Dissemination
 - Preservation planning & action
 - Adequate technical infrastructure



Welcome to DRAMBORA Interactive: Log in or Register to Use the Toolkit - Mozilla Firefox



File Edit View History Bookmarks Tools Help

http://www.repositoryaudit.eu/

Welcome to DRAMBORA Interactive:...

DRAMBORA interactive

Digital Repository Audit Method
Based on Risk Assessment

Register for DRAMBORA

Username:

Password:

Remember: ☐

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Welcome to DRAMBORA Interactive: Log in or Register to Use the Toolkit

Welcome to DRAMBORA Interactive



Please register, log in or read [about the toolkit](#), get an overview of its [objectives](#), or learn of the [benefits](#) that it can offer you and your repository.

The Digital Curation Centre (DCC) and Digital Preservation Europe (DPE) are delighted to announce the release of the Digital Repository Audit Method Based on Risk Assessment (DRAMBORA) toolkit. This toolkit is intended to facilitate internal audit by providing repository administrators with a means to assess their capabilities, identify their weaknesses, and recognise their strengths. Digital repositories are still in their infancy and this model is designed to be responsive to the rapidly developing landscape. The development of the toolkit follows a concentrated period of repository pilot audits undertaken by the DCC, conducted at a diverse range of organisations including national libraries, scientific data centres and cultural and heritage data archives.



News

[DRAMBORA on LinkedIn](#)
30th Nov 2009

[DRAMBORA is part of the SHAMAN Assessment Framework](#)
1st Jun 2009

[DRAMBORA for the ISO/TC 46/SC 11 standard](#)
6th Feb 2009

Download

Please [register](#) to download the offline copy of the DRAMBORA Toolkit

start | O2 Connection ... | C:\Documents a... | Search Results | gross_futper_NZ... | Welcome to DRA... | EN | 19:36

Register for
DRAMBORA

Username:

Password:

Remember: ☐ [Log In](#)

[Forgot Password!](#)

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[The DRAMBORA Team](#)

[Collaborations](#)

[Dissemination](#)

[DRAMBORA Users](#)

Register a new Repository for DRAMBORA Risk Assessment

Describe
Repository

Create/
Link User

Define
Staff Status

This is the first of three stages of the DRAMBORA registration process.

You must first complete some details about your repository. You *must* include either the **name of your repository**, or the **name of the institution** within which it operates. All other fields are optional, although you are advised to describe the repository as comprehensively as possible in order to benefit from the responses provided by administrators of comparable repositories. Don't worry if you're not sure about any of the fields; all of the fields below can be edited and supplemented following registration.

Descriptive Properties

Repository
Name *:

Institution *:

Institution
Type:

Address:

URL:

Country:

E-mail:

Description:

Fields:

News

[DRAMBORA Translated into Japanese](#)

13th Sep 2010

[DRAMBORA on LinkedIn](#)

30th Nov 2009

[DRAMBORA is part of the SHAMAN Assessment Framework](#)

1st Jun 2009

Download

Please [register](#) to download the offline copy of the DRAMBORA Toolkit

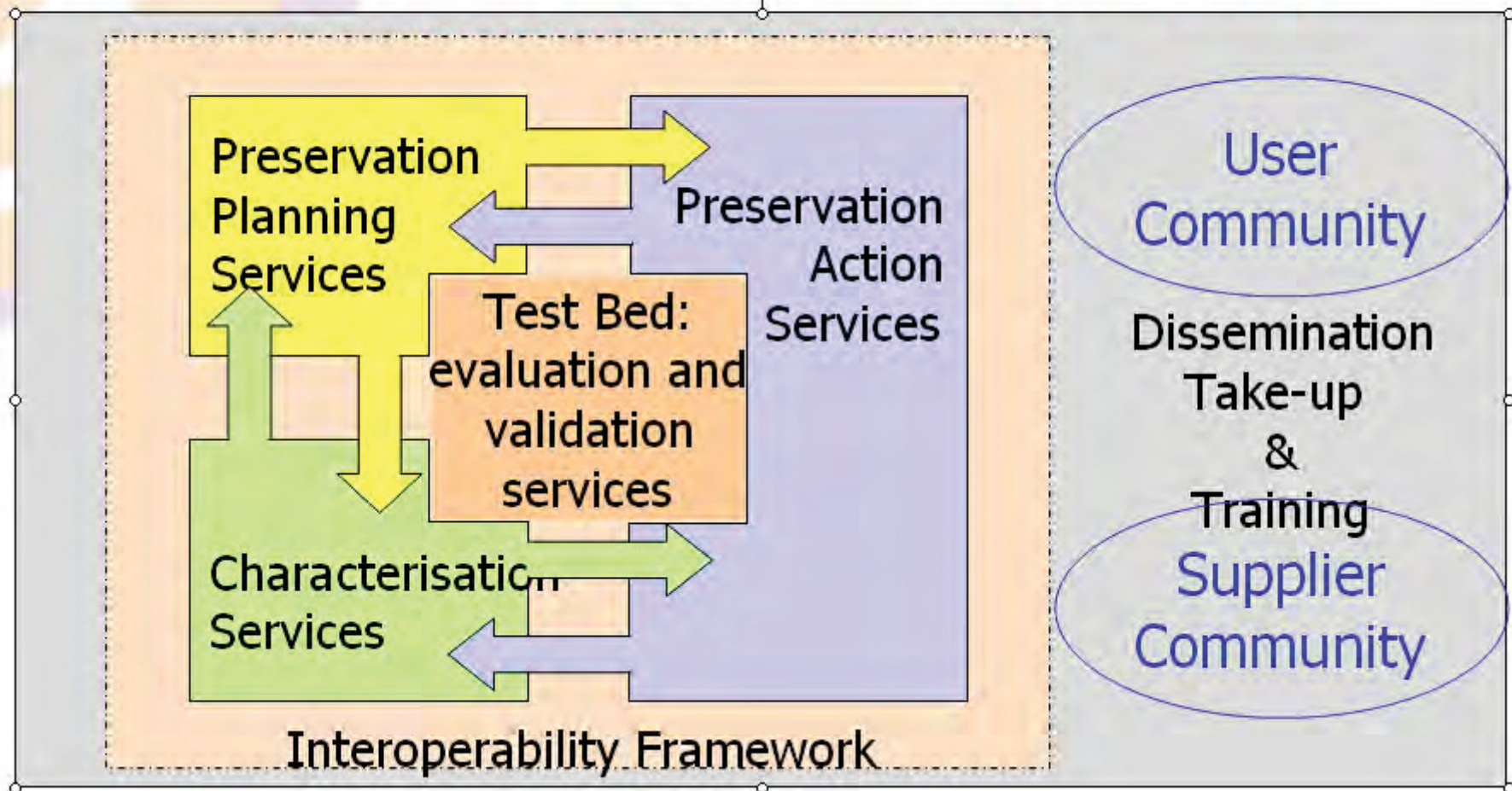
Comment

Submit feedback via our [feedback form](#) or email us.

Get Help

Get help in the DRAMBORA evaluation process by volunteering to host a [DRAMBORA facilitated assessment](#).

PLANETS Architecture





The zebrafish's beating heart can be seen through its transparent skin. Image courtesy of Richard White, MD, PhD

Planets Testbed - 'preservation plan experiment test 2' : Stage 2: Design Experiment - Mozilla Firefox

http://testbed.planets-project.eu/testbed/exp/exp_stage2.faces

Planets Testbed - 'preservation plan...

Home Experiments Services Digital Objects About Help

Planets Testbed - 'preservation plan experiment test 2' : Stage 2: Design Experiment

EXPERIMENT PAGES

- New Experiment
- My Experiments
- Browse Experiments

EXPERIMENT PROGRESS

1. Define Basic Properties
2. Design Experiment
3. Run Experiment
4. Experiment Results
5. Analyse Results
6. Evaluate Experiment

TESTBED FTP AREA

you may upload data to the Testbed FTP area using the details provided during registration.

CONNECTION DETAILS

Host name:
ftp://testbed.planets-project.eu

Port number:
21

2. Design Experiment Save Save and submit for approval

At this stage you can specify the design your experiment. This involves selecting an **experiment type** and one or more **preservation services** in the top section of the page, and selecting the **digital objects** you wish to pass through your chosen services in the lower section of the page.

Experiment Type:

- Migration**
Test how well a service transforms digital objects from one file format into another
- Load Test Migration**
Transform large numbers of digital objects and focus on a tool's speed and stability
- Characterisation**
Test how effectively a service extracts the characteristics from digital objects
- View in Emulator**
Load digital objects into an emulated environment to test how accurately the objects are presented
- Execute Preservation Plan**
Perform experiments on a PLATO preservation plan

Executable (Plato) Preservation Plan Experiment

This experiment type allows you to upload and execute a pre-defined Planets 'executable preservation plan'. Once you have chosen your workflow configuration you'll be able to modify the predefined settings before invoking it.

Upload an executable preservation plan

Please upload an executable preservation plan (xml-configuration file), which you want to run your experiment upon.

2010_sample_config.xml Browse... Add

or select from previously uploaded workflow configurations

Specified input data:

The list of Digital Object to experiment upon.

Add Digital Objects to this Experiment

Use the buttons below to add more Digital Objects to this experiment. You can select data from the data registry (including data you've uploaded using your FTP account), or you can upload files to this experiment one at a time using the 'Upload Data' option.

Select Data from the Data Registry

Select Data from the Data Registry

Upload Data

Add...

Done

Planets Testbed - About the Testbed - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://testbed.planets-project.eu/testbed/public/about.faces

Planets Testbed - About the Testbed

planets testbed | services login contact help

planets | testbed ^{BETA}

Home Services About Help

Planets Testbed - About the Testbed

DOCUMENTATION

Testbed User Guide for Experimenters

SERVER SPECIFICATION

The PLANETS Testbed is currently hosted on a Dell PE 2950 III server.

Operating System: 64-bit Ubuntu 8.04.2

Processor: 2.5GHz Intel Quad Core Xeon E5420

Memory: 16GB (8x2GB Dual

The Planets Testbed is a freely available and easy-to-use controlled environment in which users can experience and compare different preservation tools and approaches through their Web browser. The Planets approach of a service-oriented architecture makes preservation tools available on heterogeneous platforms and in well-defined and controlled surroundings. The tools are given a Web service wrapper which exposes certain aspects of their functionality through a standardized vocabulary and therefore allows users to access them through the Testbed's Web-based interface

[View a list of the organisations involved in the creation of the Testbed](#)

The Planets Testbed Six-Step Experiment Process

Experiment Design
Step 1

Experiment Execution
Step 3

Experiment Analysis
Step 4

start O2 Connection Manager Windows Explorer sross_futper_NZ4Ma... Planets Testbed - Ab... EN 19:43



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welcome

DigitalPreservationEurope(DPE), building on the earlier successful work of ERPANET, facilitates pooling of the complementary expertise that exists across the academic research, cultural, public administration and industry sectors in Europe.

DPE fosters collaboration and synergies between many existing national and international initiatives across the European Research Area.

DPE addresses the need to improve coordination, cooperation and consistency in current activities to secure effective preservation of digital materials. DPE's success will help to secure a shared knowledge base of the processes, synergy of activity, systems and techniques needed for the long-term management of digital material.

Latest News:

Preserving the British Library's C19 Newspaper Collection: Planets Film Released
Posted on 28th April 2010

Planets (Preservation and Long-term Access Through Networked Services) has released the first of four filmed and written studies to show how national libraries and archives in Europe are using Planets tools to preserve large and valuable digital collections.

This five minute film documents the challenges the British Library has faced with preserving the 80TB of images and its use of Planets preservation planning tool, Plato, to support the decisions it has taken. [More info](#)

Team Digital Preservation and the Aeroplane Disaster: New Animation!
Posted on 9th September 2009



See it on YouTube

New DPE Briefing Papers Translations available
Posted on 21st March 2009

You may now read 5 more BP in Italian:

- Considerazioni sulla conservazione dei blog
- Sistemi d'identificazione permanente nel settore della Pubblica Amministrazione
- Il modello dati di PrestoSpace

- about DPE
- what is digital preservation
- news and events
- exchange programme
- DPE challenge
- DPE user community
- DPE registries
- DPE publications
- DRAMBORA
- PLATTER
- ErpaEprints
- unique identifier service
- DPE video training



Information Society Technologies



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Select Language



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Platter Online Training Module



KRYS I Corpus

- [Home](#)
- [Register/Login](#)
- [Information](#)
- [Terms of Use](#)
- [Contact](#)

Welcome to the website of the KRY S I Corpus.

The KRY S I corpus is a collection of over 6300 documents labelled with their genre classes. It was constructed as part of a research initiative to automate document genre classification driven by the [Digital Curation Centre](#). It was carried out at the [Humanities Advanced Technology and Information Institute \(HATII\)](#), [University of Glasgow](#) between 2005 and 2008.

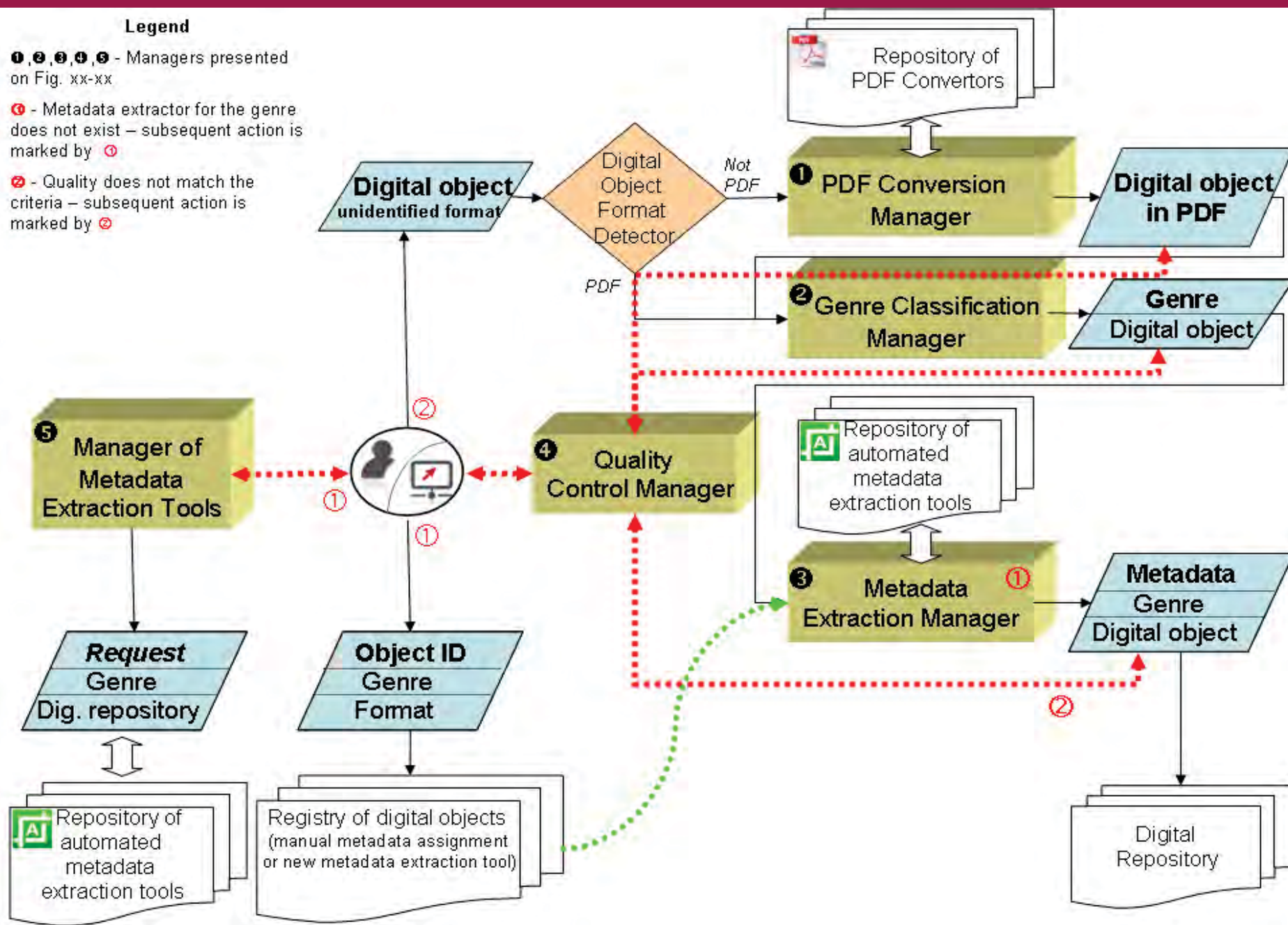
The notion of genre is deeply embedded in the way humans organise information. Identifying the genre of a document helps to characterise the physical and conceptual structure of the text, helping to capture the style and location of further information within the text. There have been very few genre-labelled corpora available to the research community. Our corpus is made available here to fill this gap and serve as a valuable resource for researchers in:

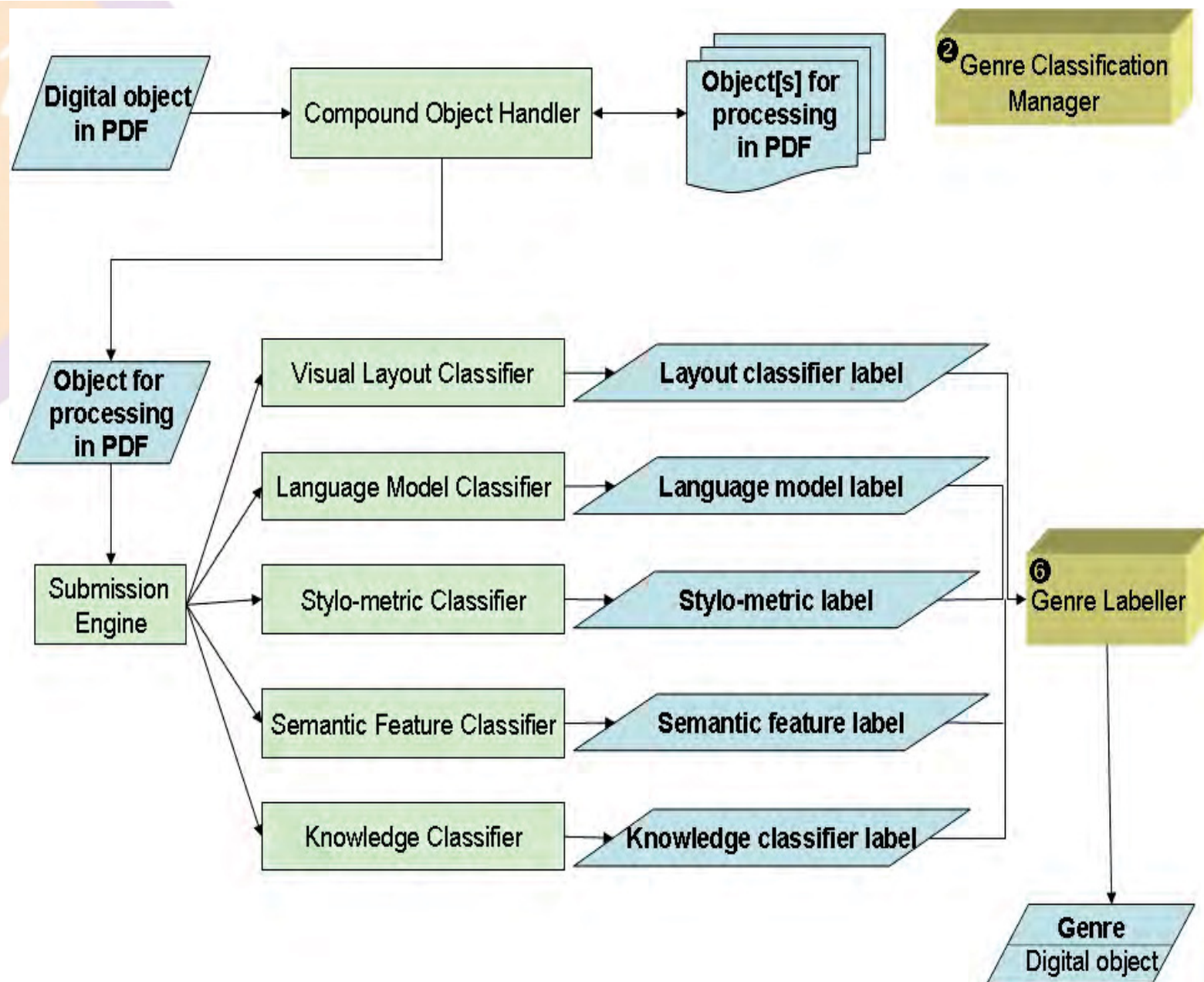
Legend

①, ②, ③, ④, ⑤ - Managers presented on Fig. xx-xx

① - Metadata extractor for the genre does not exist – subsequent action is marked by ①

② - Quality does not match the criteria – subsequent action is marked by ②



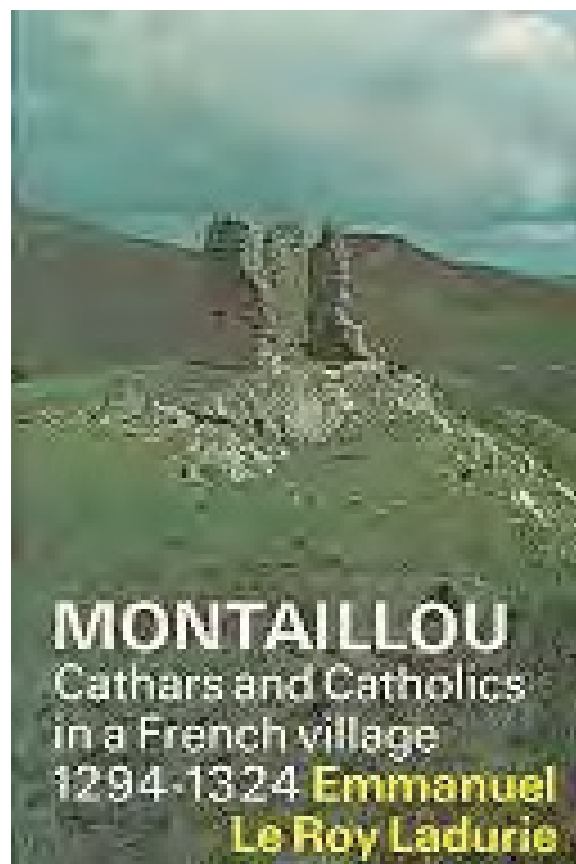


BEING COLONIZED

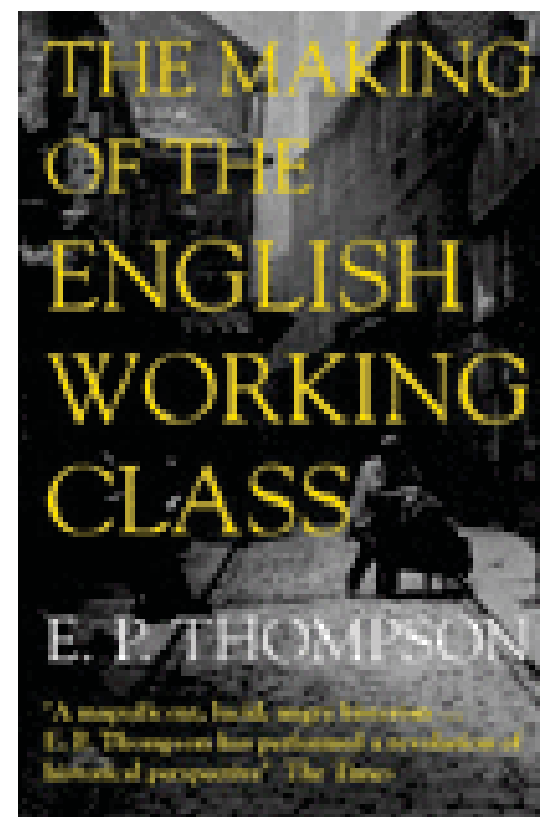
THE KUBA EXPERIENCE
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1880-1960



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Cathars and Catholics
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1294-1324 **Emmanuel**
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Thank you for your attention