



Exploring the InterPARES Research Project

Presented at the

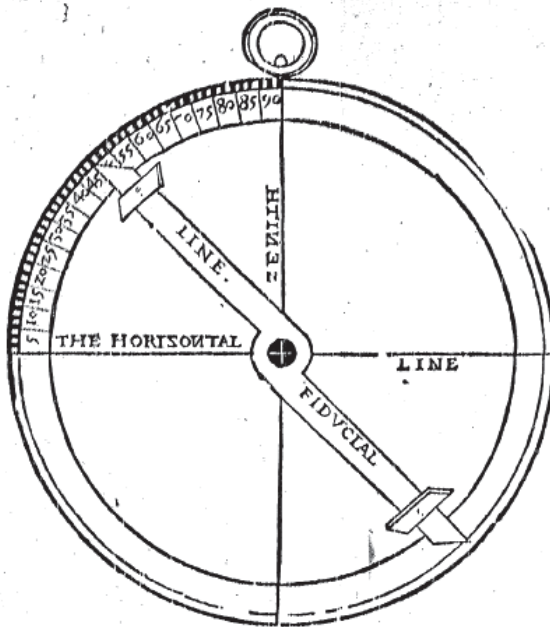
“Future of Electronic Documents in Mexico”

Jim Suderman
City of Toronto
Canada

11 September 2008
Mexico City,
Mexico

Sponsored by:

- Federal Institute of Access to Public Information (IFAI)
- Mexican Archives School A. C.
- BARATZ S.A.

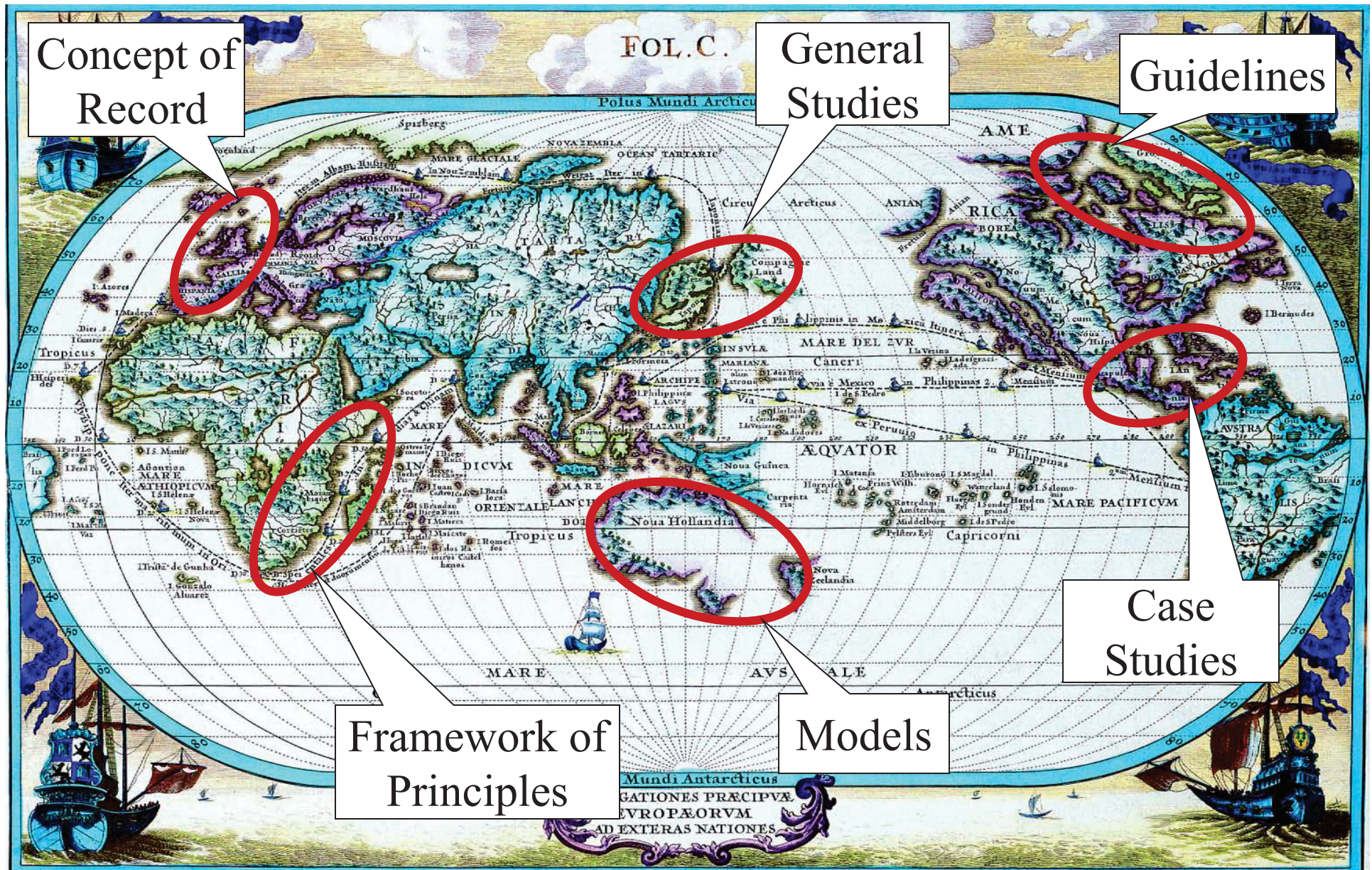




Introducing InterPARES

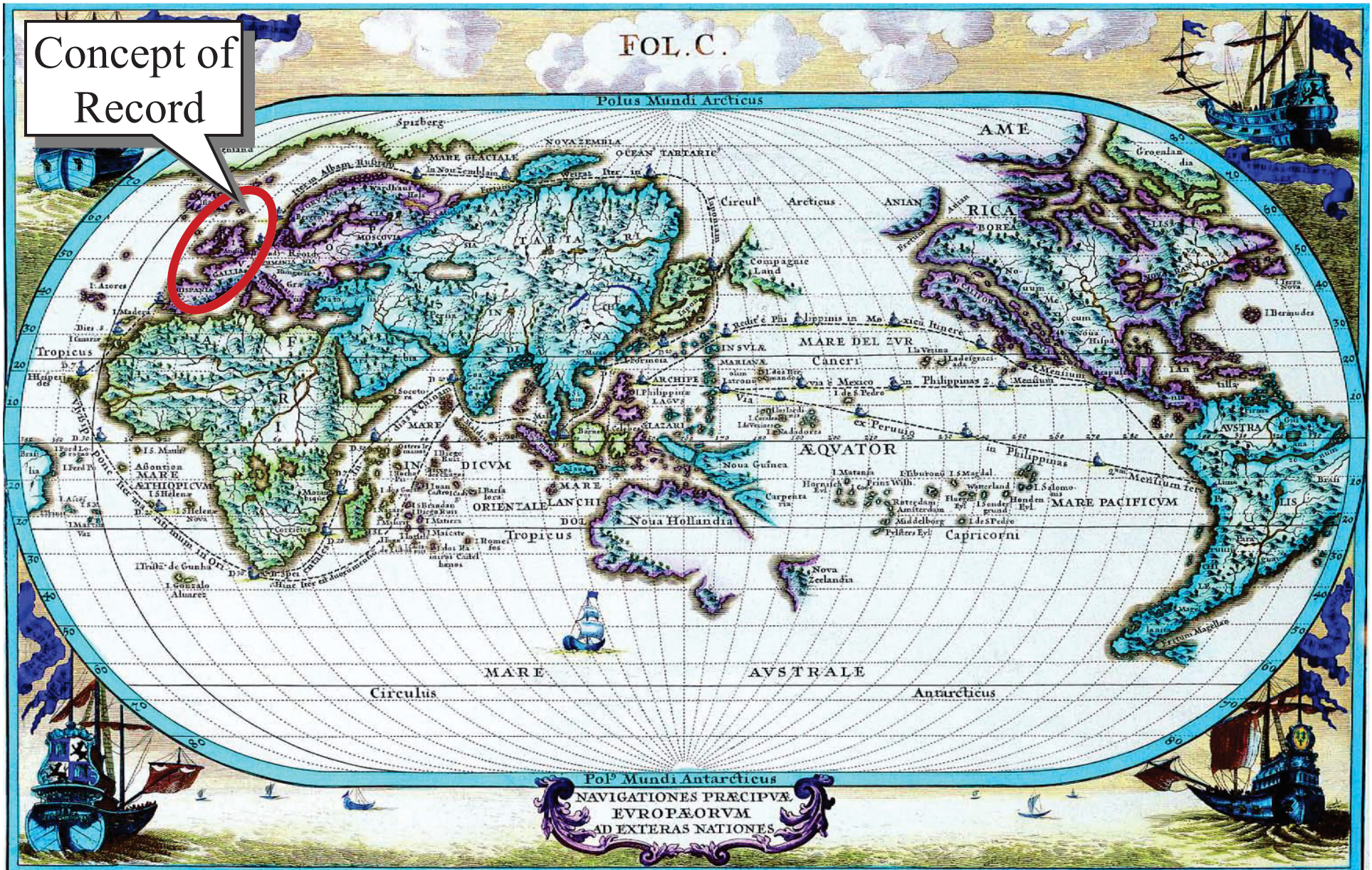
- What is the InterPARES research project?
- How long has it been in operation?
- Who provides direction?
- Where is it based?

Exploring InterPARES



Exploring InterPARES

Concept of
Record



Concept of Record

- Expanded definition
 - practicality of activities (telegraph obsessed again...’s experiment)
 - manifest record
- findings of IP1, confirmed by IP2, records not created for maintenance, e.g., VanMap
- terminology database (ontology)

Concept of Digital Record

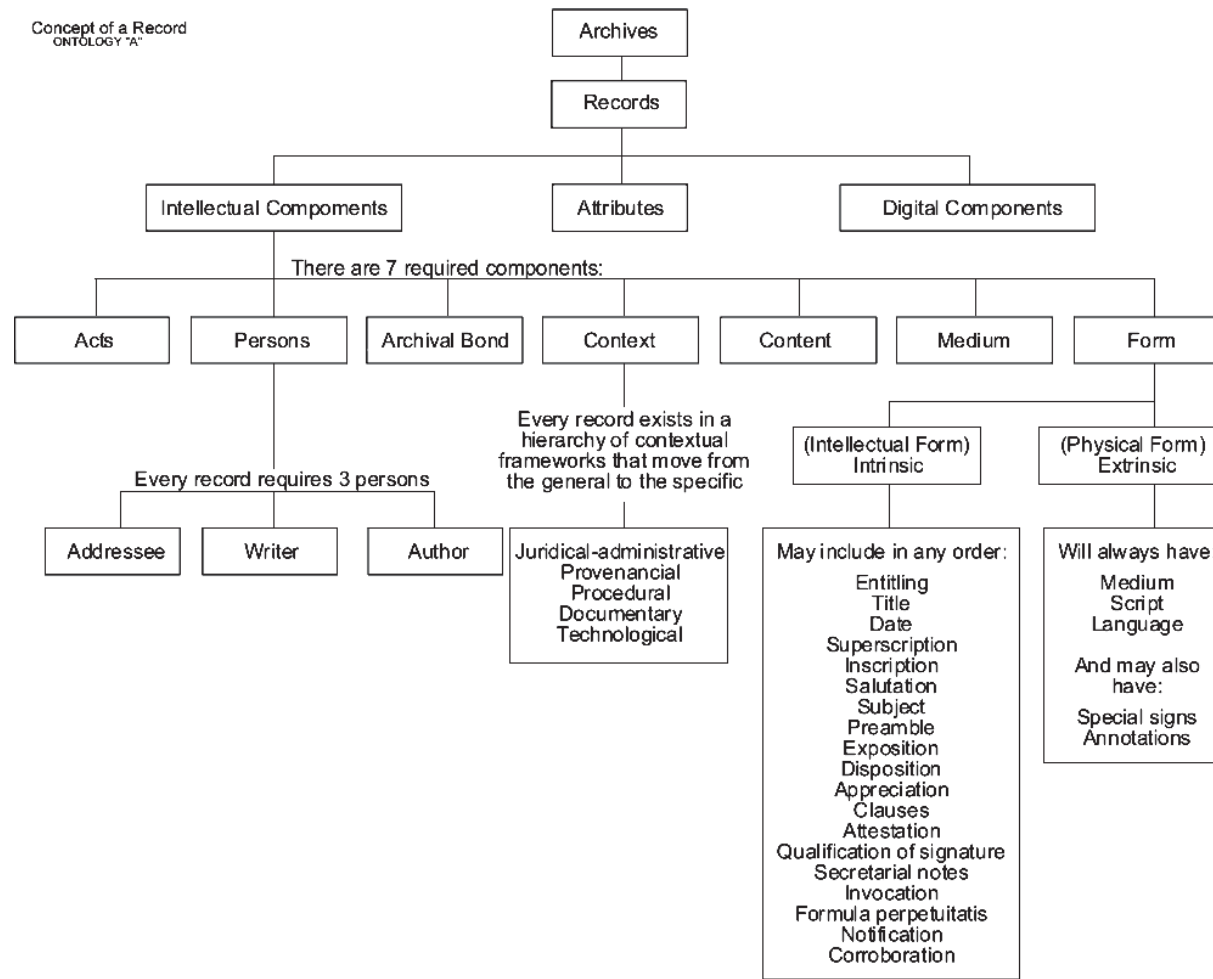


Digital records

- Cannot be preserved
- Comprised of digital component(s)
- Components can be reassembled
- Reproduced records can be authentic

Concept of Digital Record

Concept of a Record
ONTOLOGY "A"



Also author-determined variations in form or content

VanMap Case Study

http://vanmappub.vancouver.ca - VanMapLite, Public VanMap No-Plug-in Version - Microsoft Internet Explorer

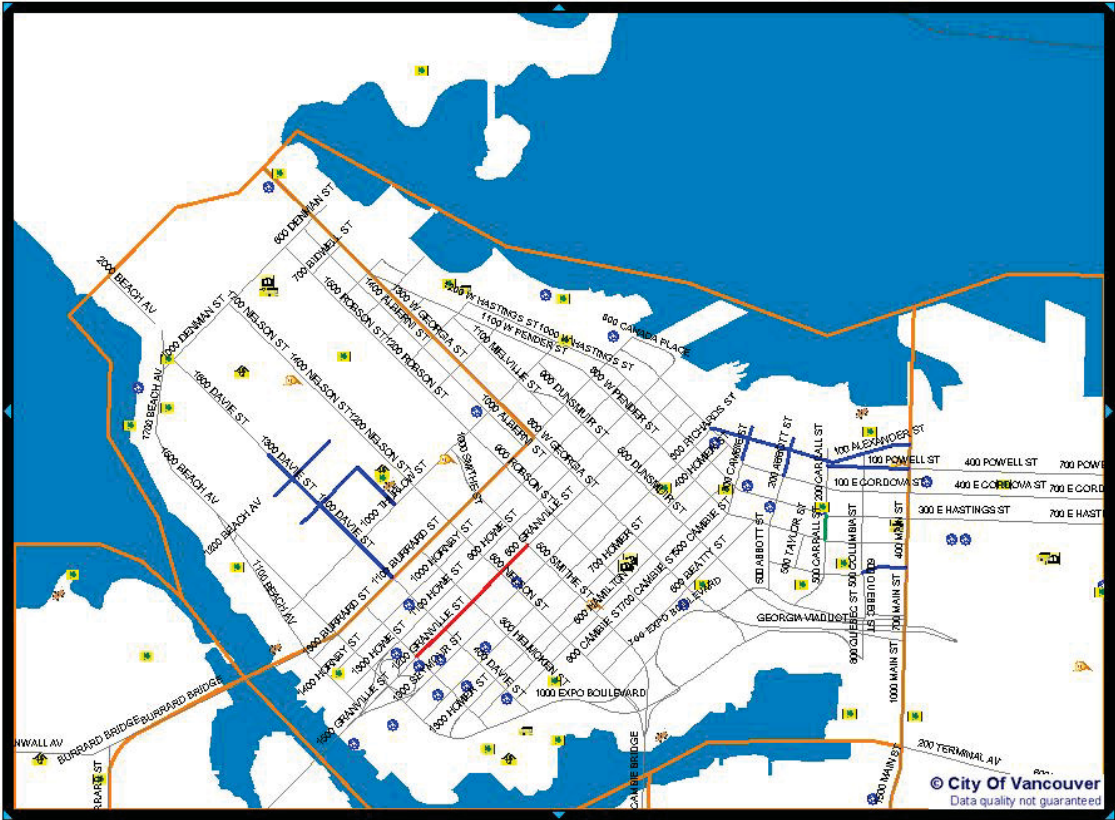
VanMapLite Help Go

Click map to: ☒ Zoom In ☐ Zoom Out ☐ Recenter ☐ Identify

Bookmarks: Full View

Layer List

City Boundary	--
City Projects (Sites-based)	
City Projects (Streets-based)	
Community Centres	
Dog off-leash Areas	
Fire Halls	
Heritage Sites	
Libraries	
Local Areas	
North Arrow	
One Way Streets	
Parks	
Parcel Boundaries	
Property Address Number	Abc
Property Dimensions	123
Public Streets	
Reference Streets	
Road Closures	
Roadwork-Under Construction	
Roadwork-Upcoming Projects	
Schools	
Shore Lines and Sea	
Water Bodies	
Orthophotos 2006	<input type="radio"/> On <input checked="" type="radio"/> Off



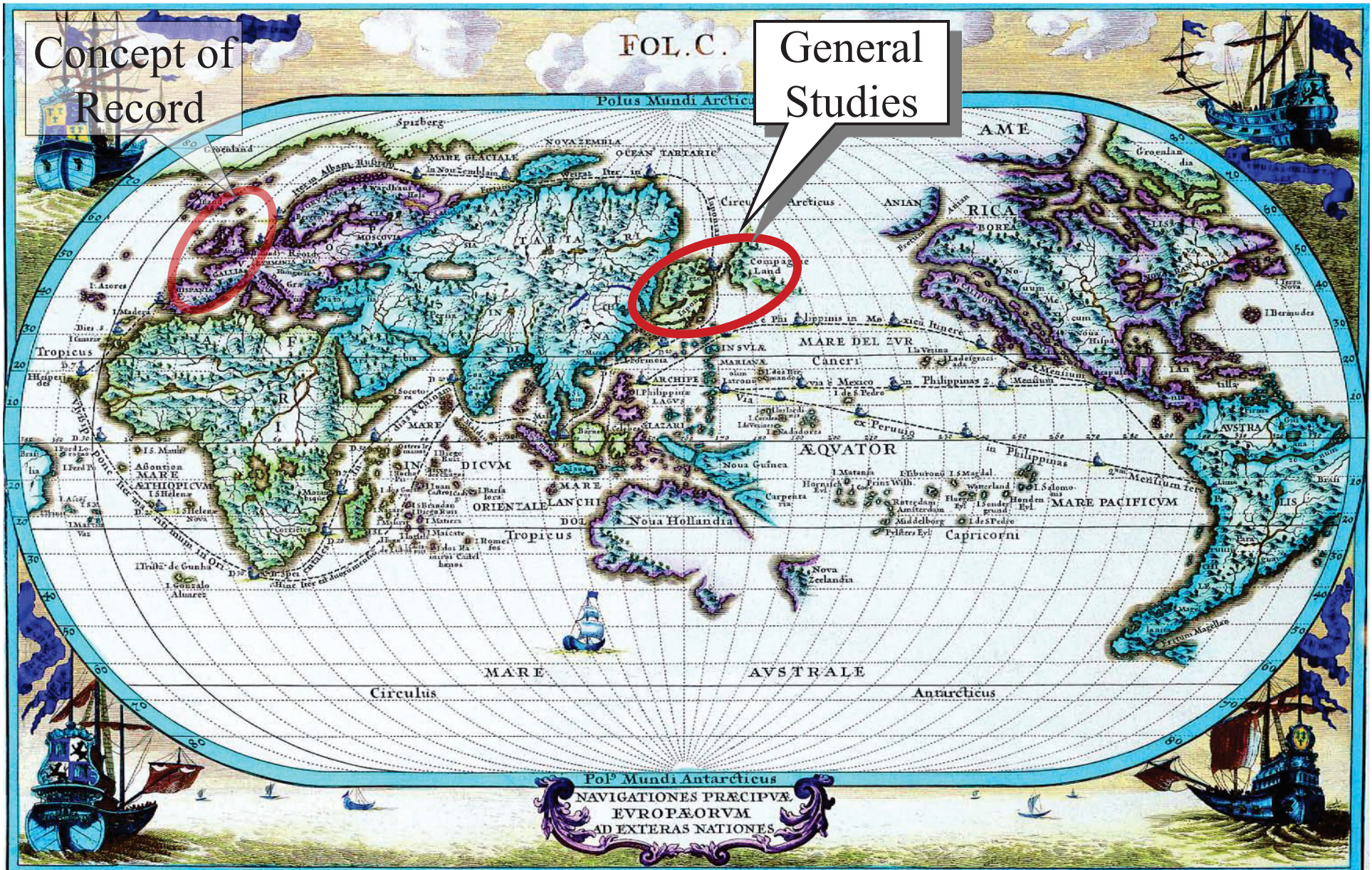
© City of Vancouver
Data quality not guaranteed

VanMap Case Study

- VanMap could preserve records of business transactions if:
 - history file of data in the system
 - detailed descriptions of business processes, including how VanMap is used
 - These would become records themselves, instructing the reproduction of business records
 - Form and content of reproduced records varies within boundaries established

Concept of Record

General Studies



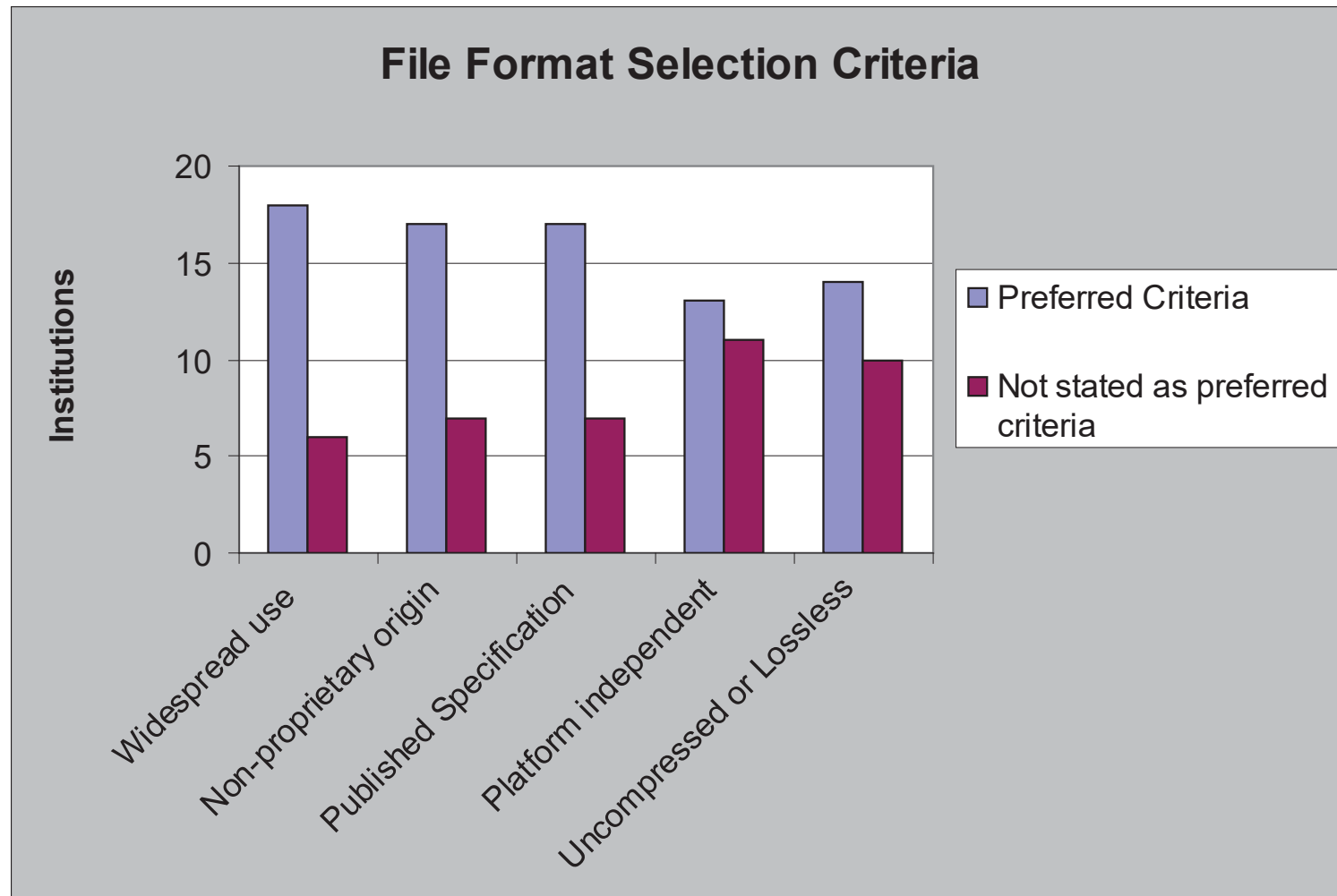
Study of Digital File Formats

- File format \neq file encoding
 - Approximately 100 compression encodings for .WAV format
 - .WAV ‘wraps’ multiple bitstreams into one file.
- XML \neq file format
- Specify encoding for identified file formats
- Specify formats, encoding, schema, and Document Type Definition for XML files.

Study of Digital File Formats

- What is an Open / Standard / Stable file format?
 - A product of open source software
 - Non-proprietary file format
 - Proprietary but free of patent / royalty fees
 - Widely adopted format (industry or *de facto* standard)
 - Adopted by a standards organization
 - Forwards/backwards compatibility

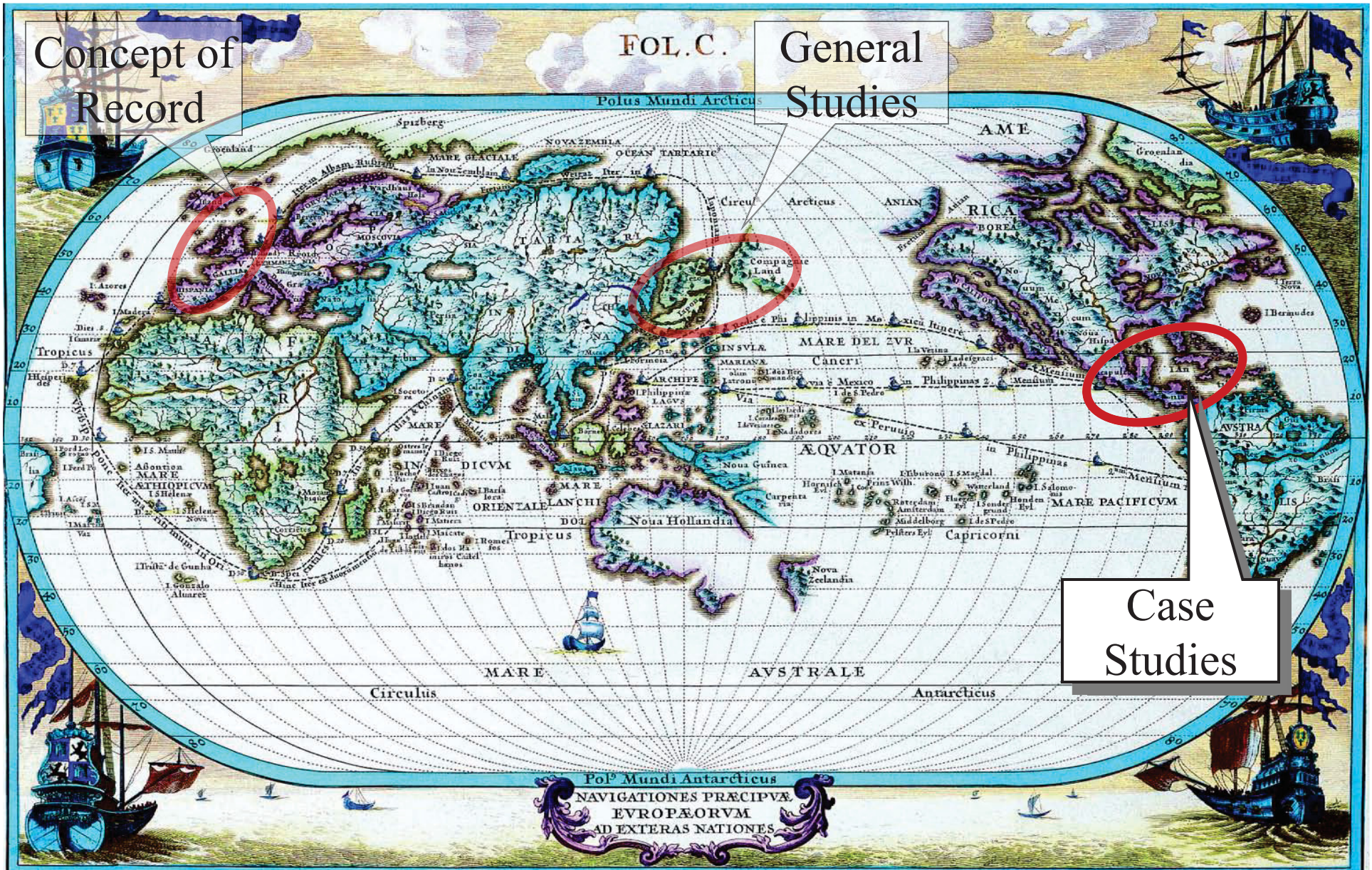
Study of Digital File Formats



Concept of Record

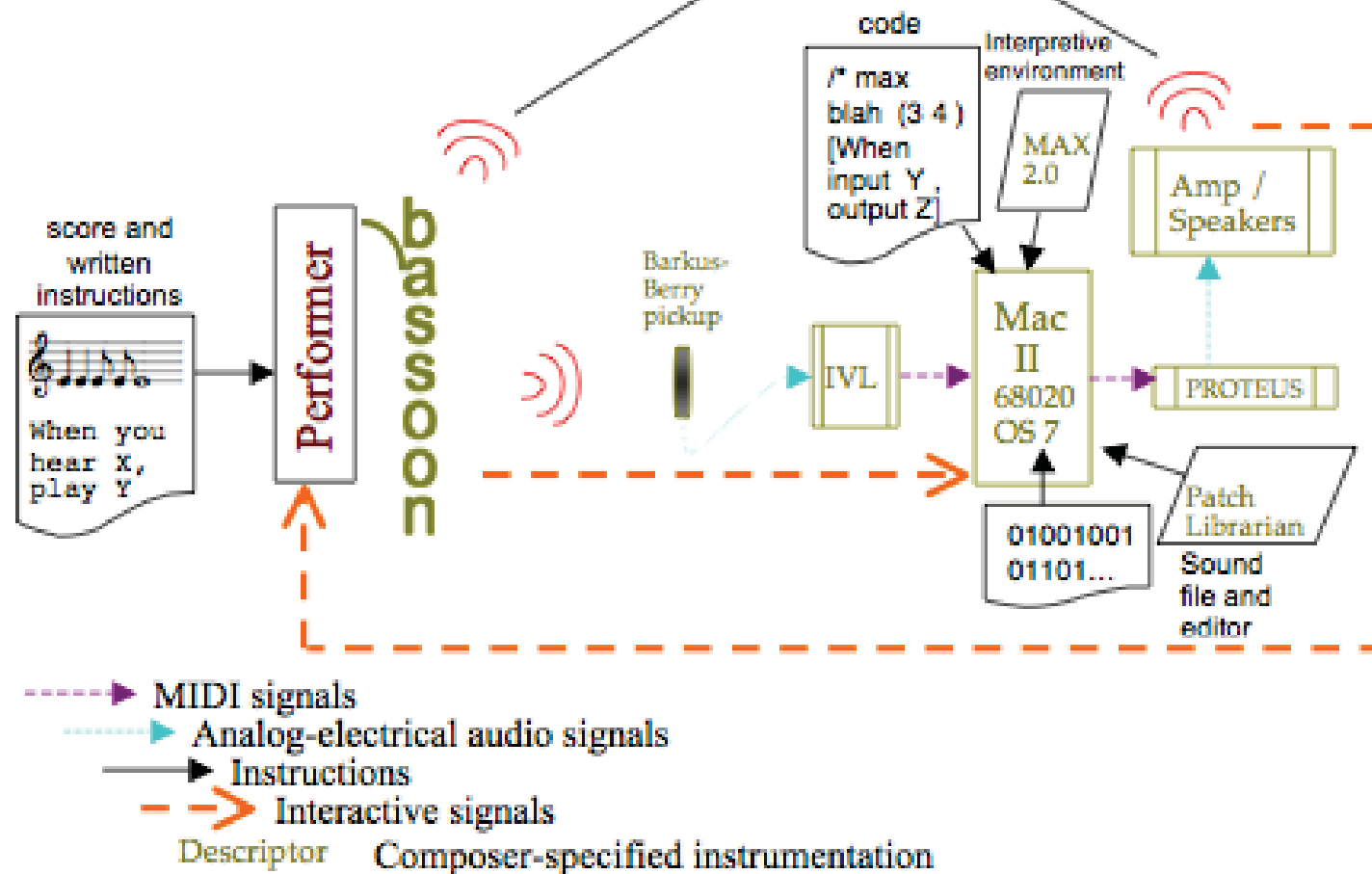
General Studies

Case Studies



Obsessed Again...

Obsessed again... (sound-events)



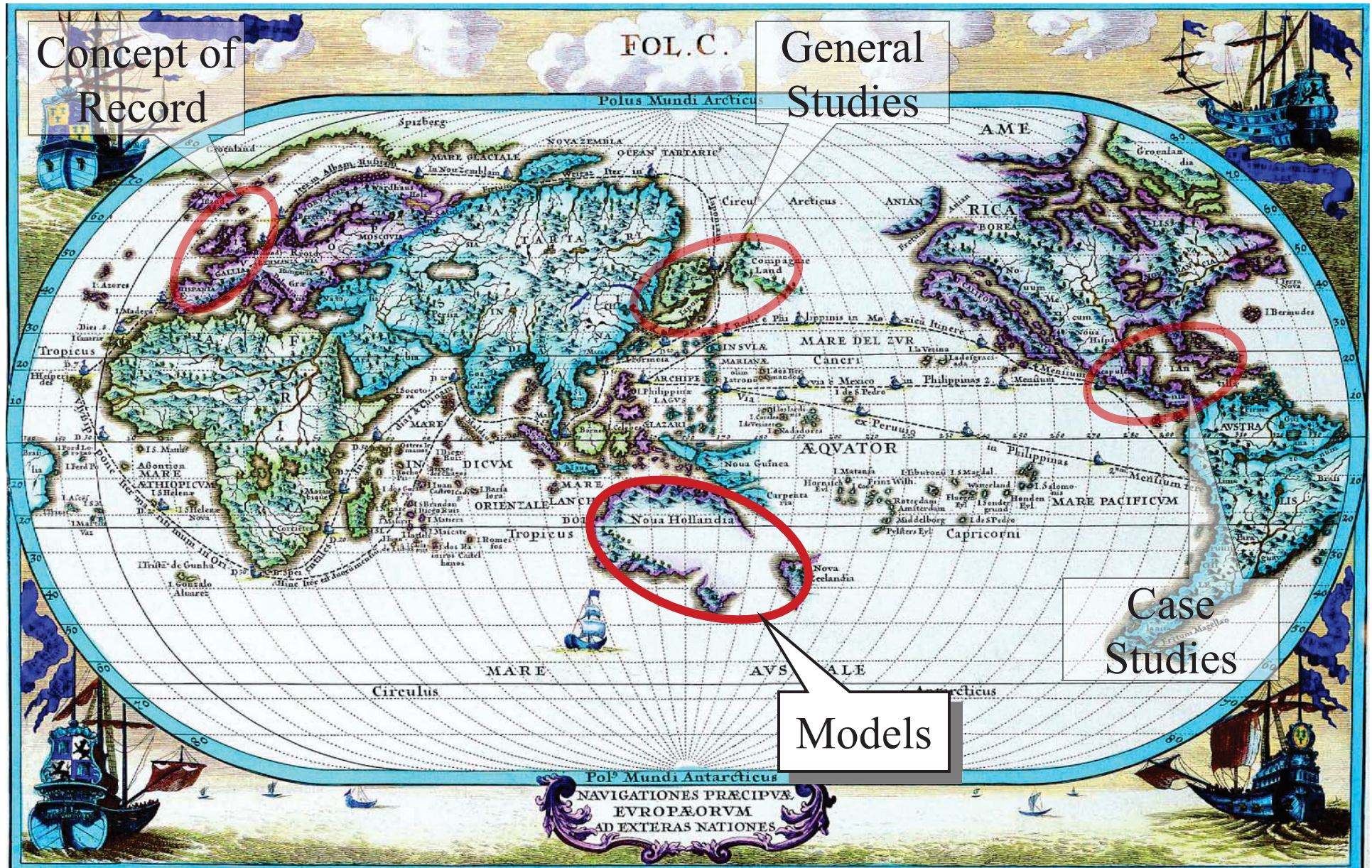
Obsessed Again...

- Challenges the sufficiency of archival or documentary contexts;
- Challenges the archival / diplomatic conceptualization of authenticity

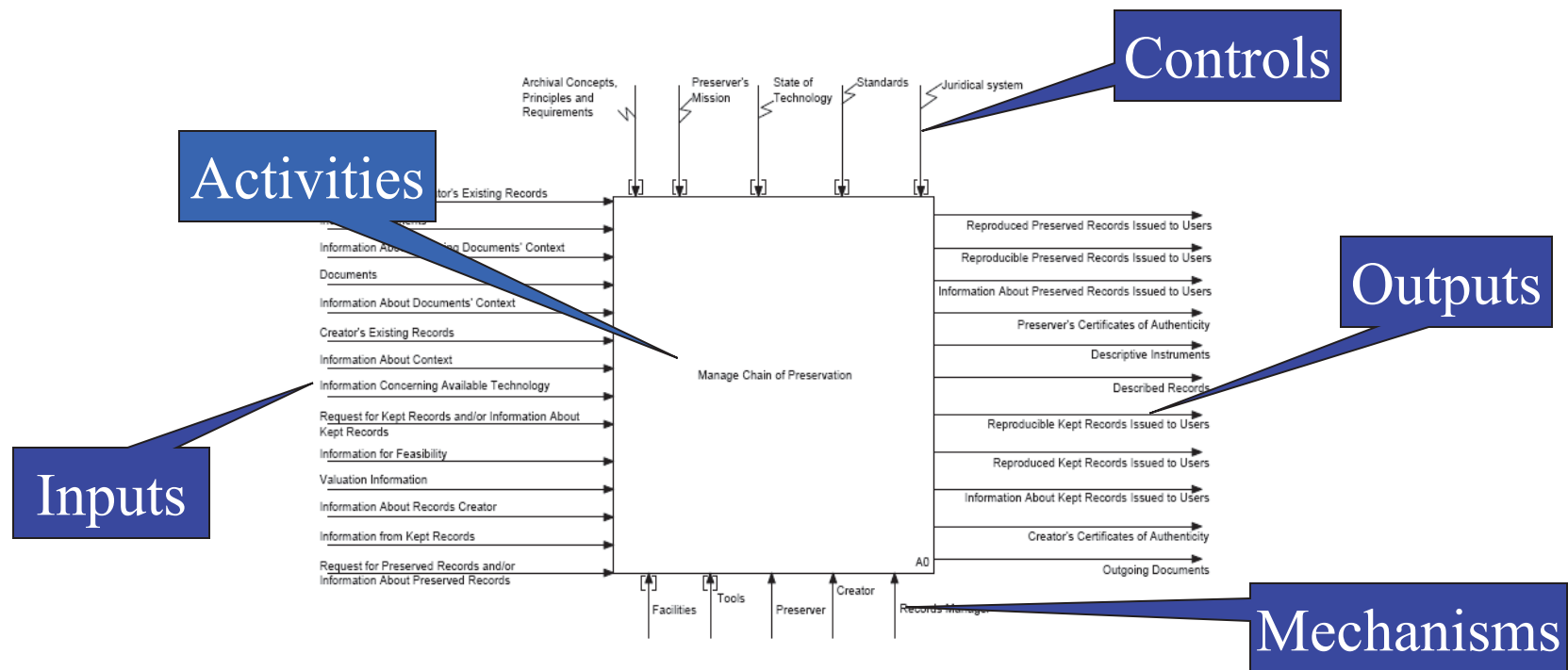
Obsessed Again...

- Preservation tied in with creation
 - Completeness of documentation
- Feasibility of preservation
 - Capabilities of the preservation system
- Accuracy of reproduction
 - Qualitative considerations

Exploring InterPARES

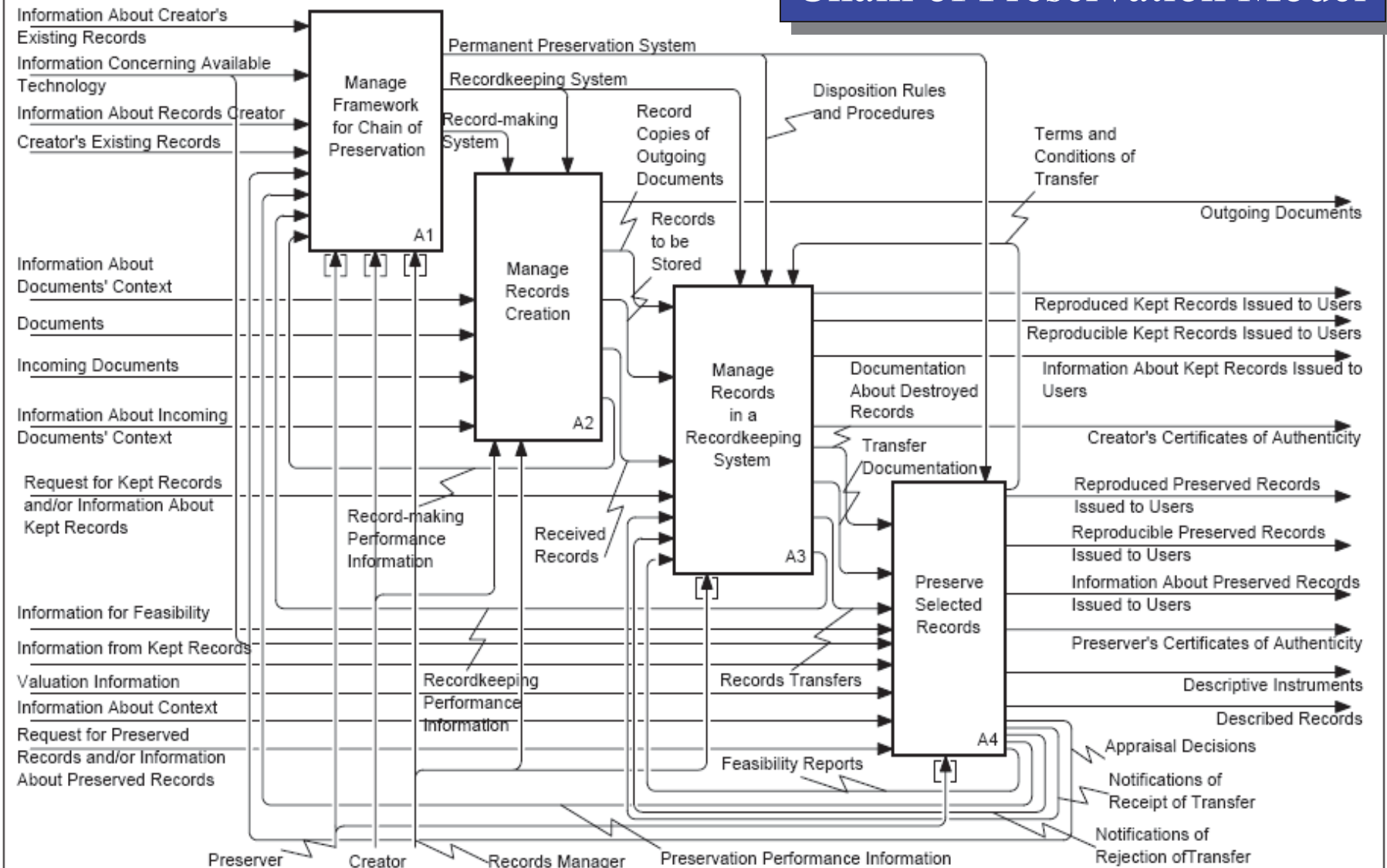


Modeling Technique - IDEFØ



USED AT:	AUTHOR: UBC	DATE: 19/01/2004	WORKING	READER	DATE	CONTEXT:
	PROJECT: Manage the Chain of Preservation	REV: 30/05/2005	DRAFT			
			RECOMMENDED			
	NOTES: 1 2 3 4 5 6 7 8 9 10		PUBL			

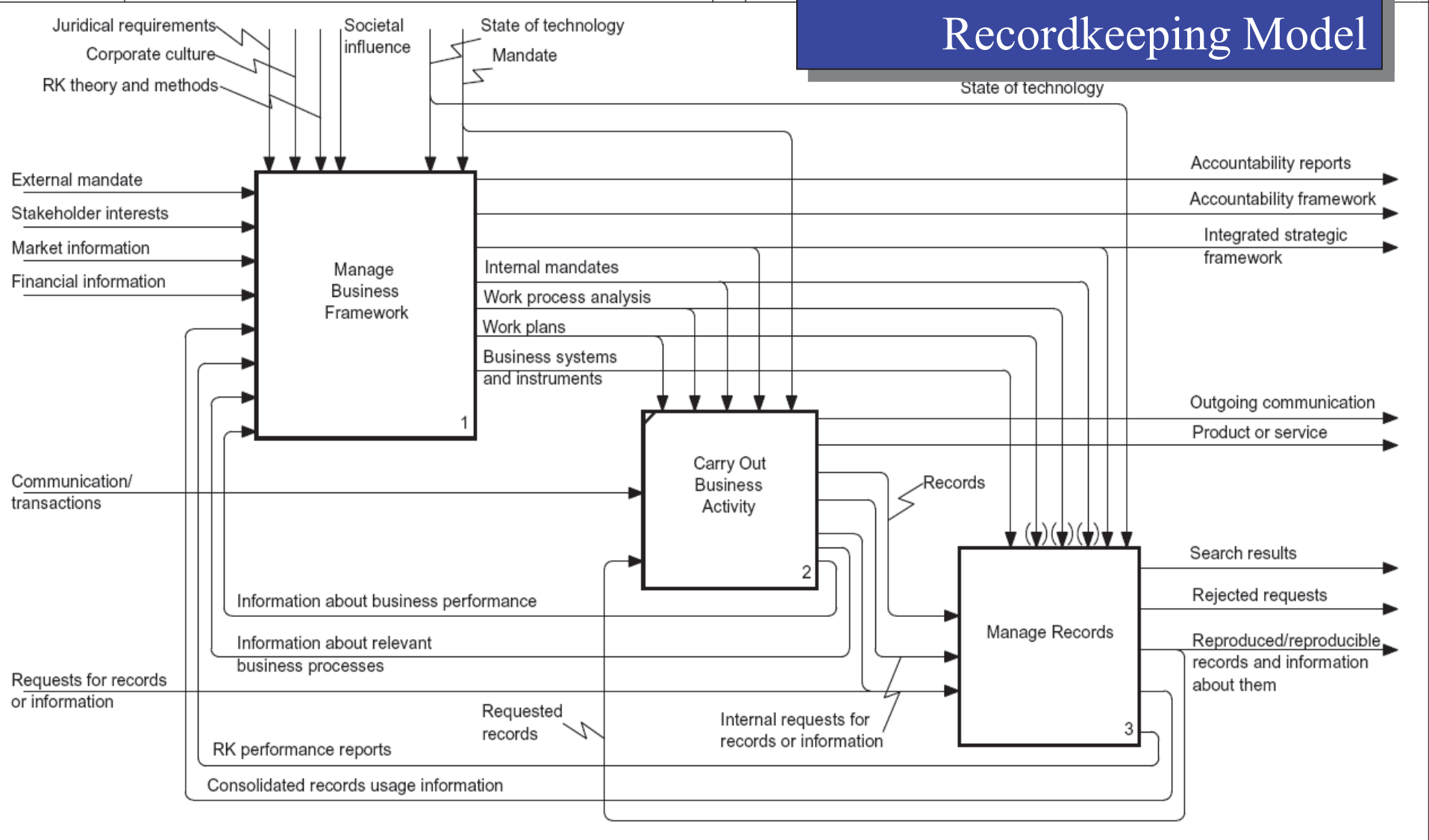
Chain of Preservation Model



NODE: A0	TITLE: Manage Chain of Preservation	NUMBER:
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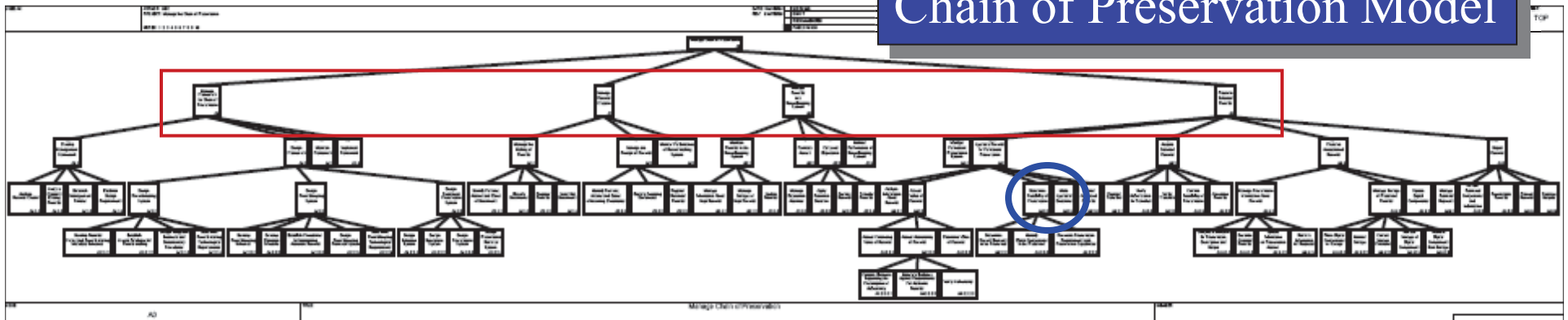
USED AT:	AUTHOR: Hans Hofman	DATE: 07-Dec-2003	WORKING	READER	DATE	CONTEXT:	
	PROJECT: InterPARES	REV: 30-Jul-2007	DRAFT				
			RECO	<div>Business-Driven</div>			
			PUBL				
	NOTES: 1 2 3 4 5 6 7 8 9 10						

Business-Driven
Recordkeeping Model

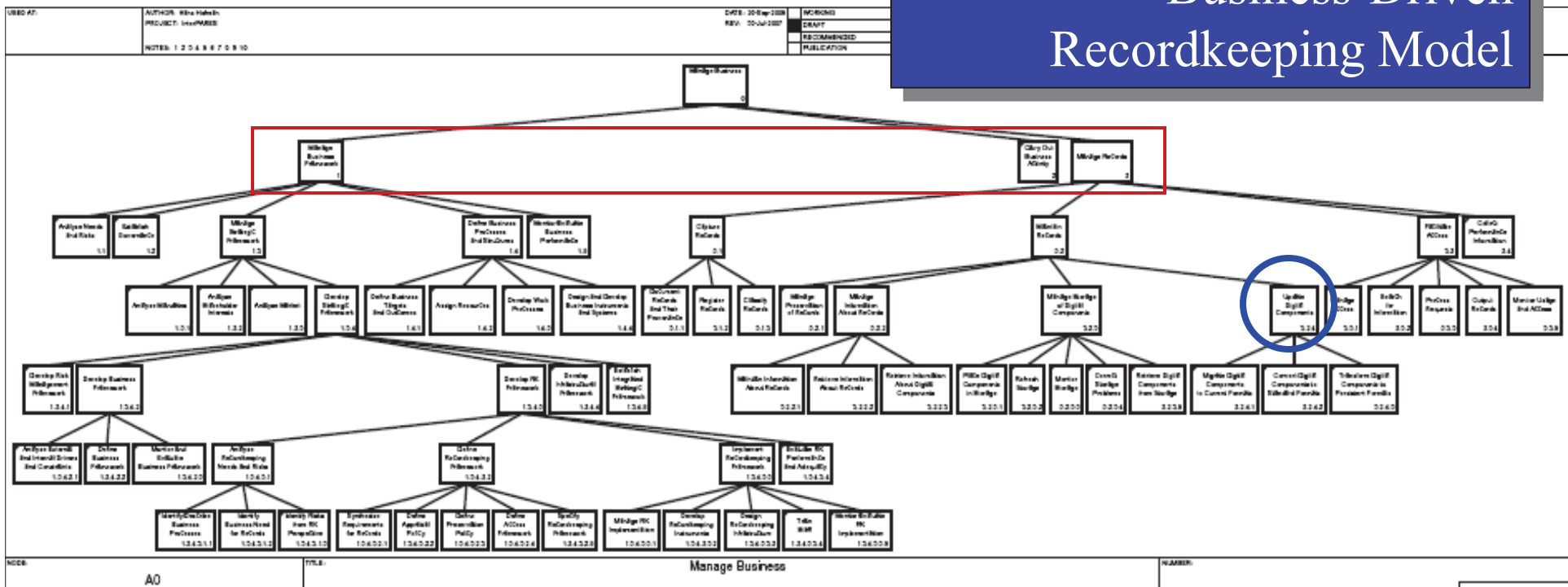


NODE: A0	TITLE: Manage Business	NUMBER:
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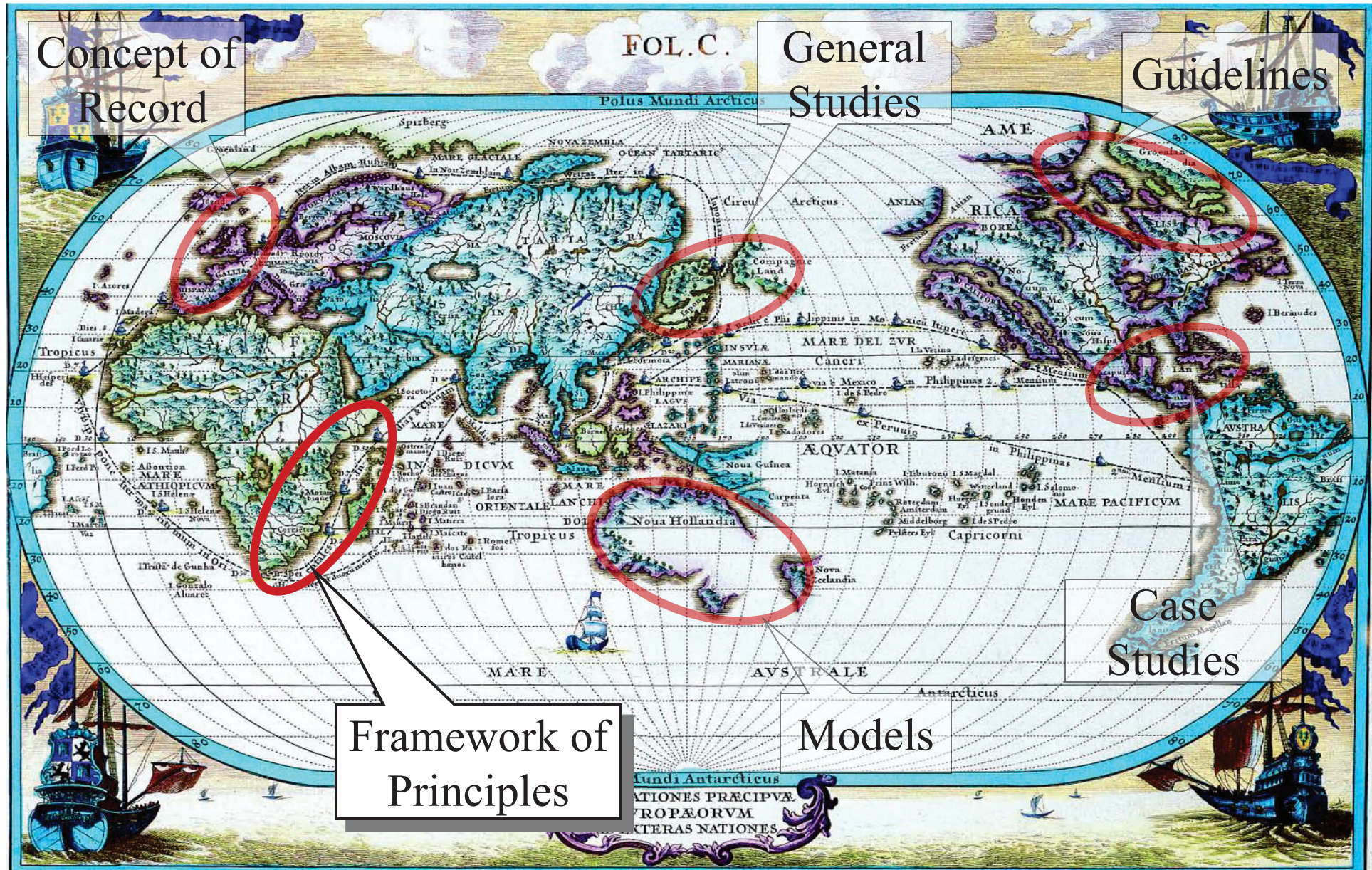
Chain of Preservation Model



Business-Driven Recordkeeping Model



Exploring InterPARES



Framework of Principles

Creator - Preserver Relationship

- Developing of record creation and maintenance policies
- Embedding preservation considerations in record creation and maintenance activities
- be equipped with the knowledge and skills necessary to fulfil mandate
- establish a trusted preservation system

Framework of Principles

Records Preserver as ‘Trusted Custodian’:

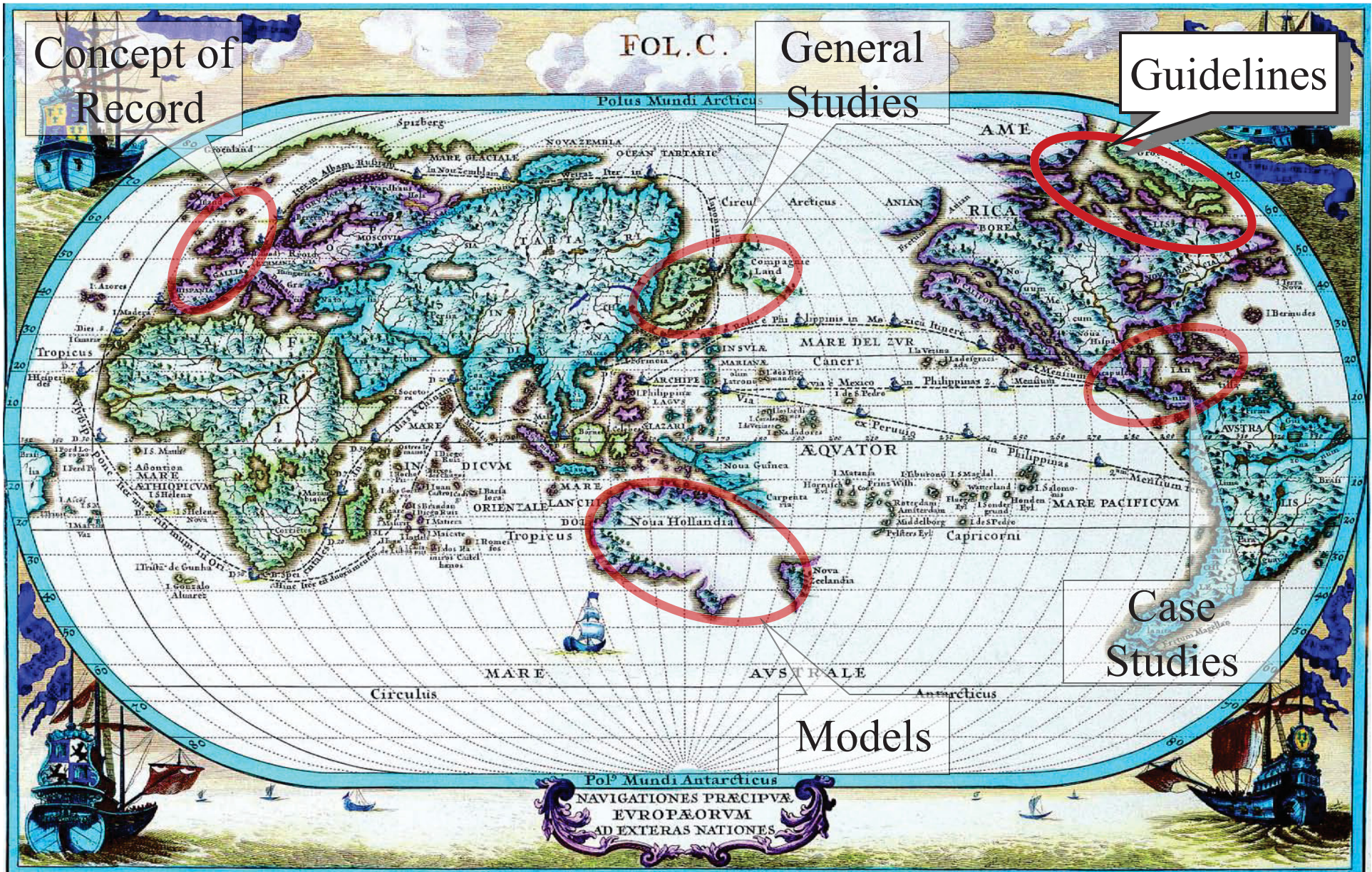
- act as a neutral third party
- be equipped with the knowledge and skills necessary to fulfil mandate
- establish a trusted preservation system

Framework of Principles

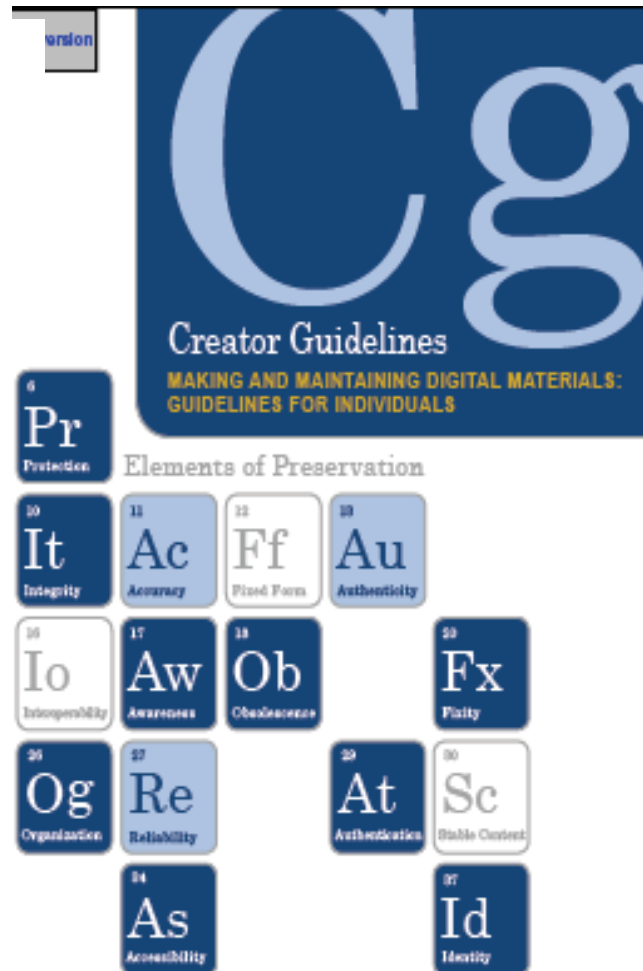
Legislated environment

- No level of government in any country has taken a comprehensive view of the records lifecycle.
- Legislative conflicts, especially pertaining to intellectual property (copyright) and reformatting/duplication required for preservation work

Exploring InterPARES



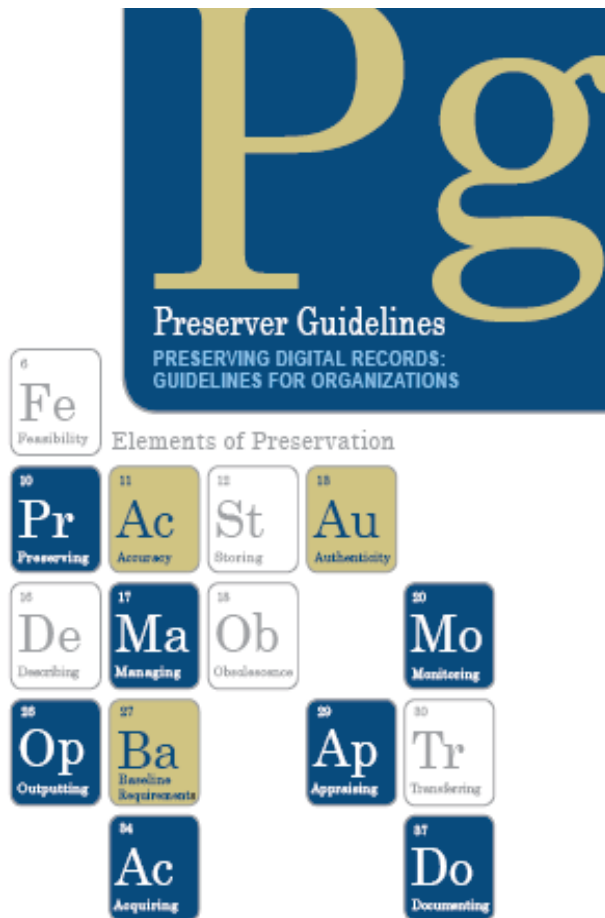
Creator Guidelines



10 activities

- establishing context
 - technological
 - documentary
 - procedural
 - legal / administrative
 - provenancial
- good recordkeeping practices

Preserver Guidelines



- 1) Manage Chain of Preservation Framework
- 2) Appraise records
- 3) Acquire selected records
- 4) Preserve records
- 5) Reproduce records

InterPARES Project

International Research on Permanent Authentic Records in Electronic Systems

director's message



<http://interpares.org/>

The International Research on Permanent Authentic Records in Electronic Systems (InterPARES) aims at developing the knowledge essential to the long-term preservation of authentic records created and/or maintained in digital form and providing the basis for standards, policies, strategies and plans of action capable of ensuring the longevity of such material and the ability of its users to trust its authenticity. InterPARES has developed in three phases:

InterPARES 1 was initiated in 1999 and concluded in 2001. It focused on the development of theory and methods ensuring the preservation of the authenticity of records created and/or maintained in databases and document management systems in the course of administrative activities, and took the perspective of the preserver.

InterPARES 2 was initiated in 2002 and concluded in 2006. In addition to dealing with issues of authenticity, it delved into the issues of reliability and accuracy during the entire lifecycle of records, from creation to permanent preservation. It focused on records produced in complex digital environments in the course of artistic, scientific and e-government activities.

InterPARES 3 was initiated in 2007 and will continue through 2012. The project builds upon the findings of InterPARES 1 and 2, as well as of other digital preservation projects worldwide. It will put theory into practice, working with small and medium-sized archives and archival/records units within organizations, and develop teaching modules for in-house training programs, continuing education, and academic curricula.



Thanks!

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