

Los entornos del documento electrónico: experiencial, dinámico e interactivo

Presented at the

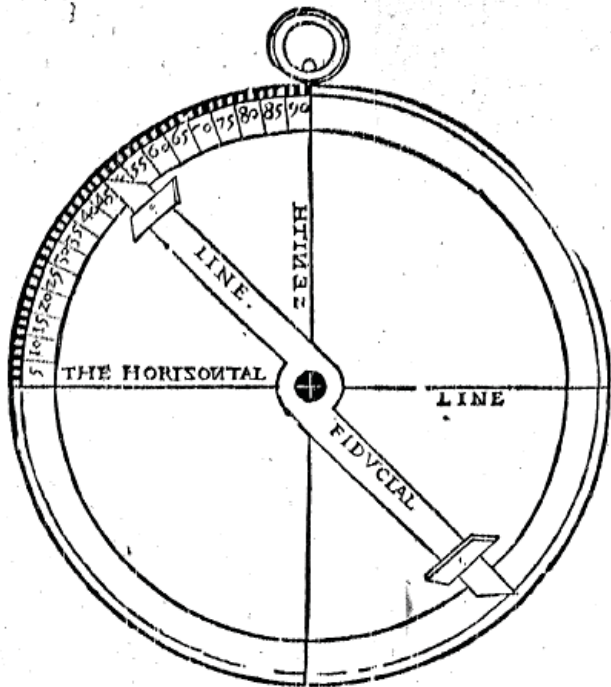
Congreso de Archivos Municipales
Españoles

Jim Suderman

Toronto
Canada

7 November 2008

Lugo
Spain



Introducing InterPARES

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

Exploring InterPARES

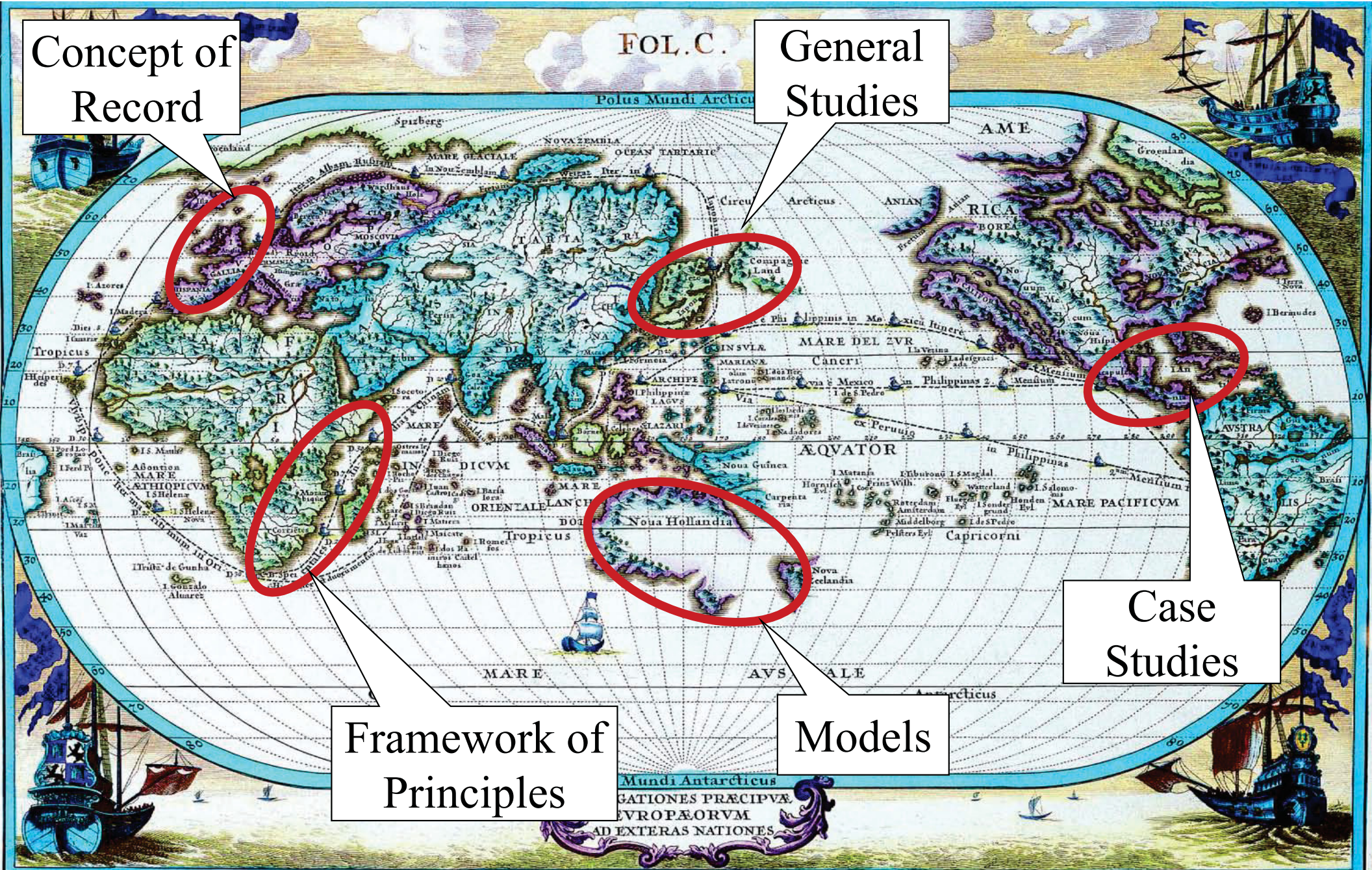
Concept of Record

General Studies

Case Studies

Framework of Principles

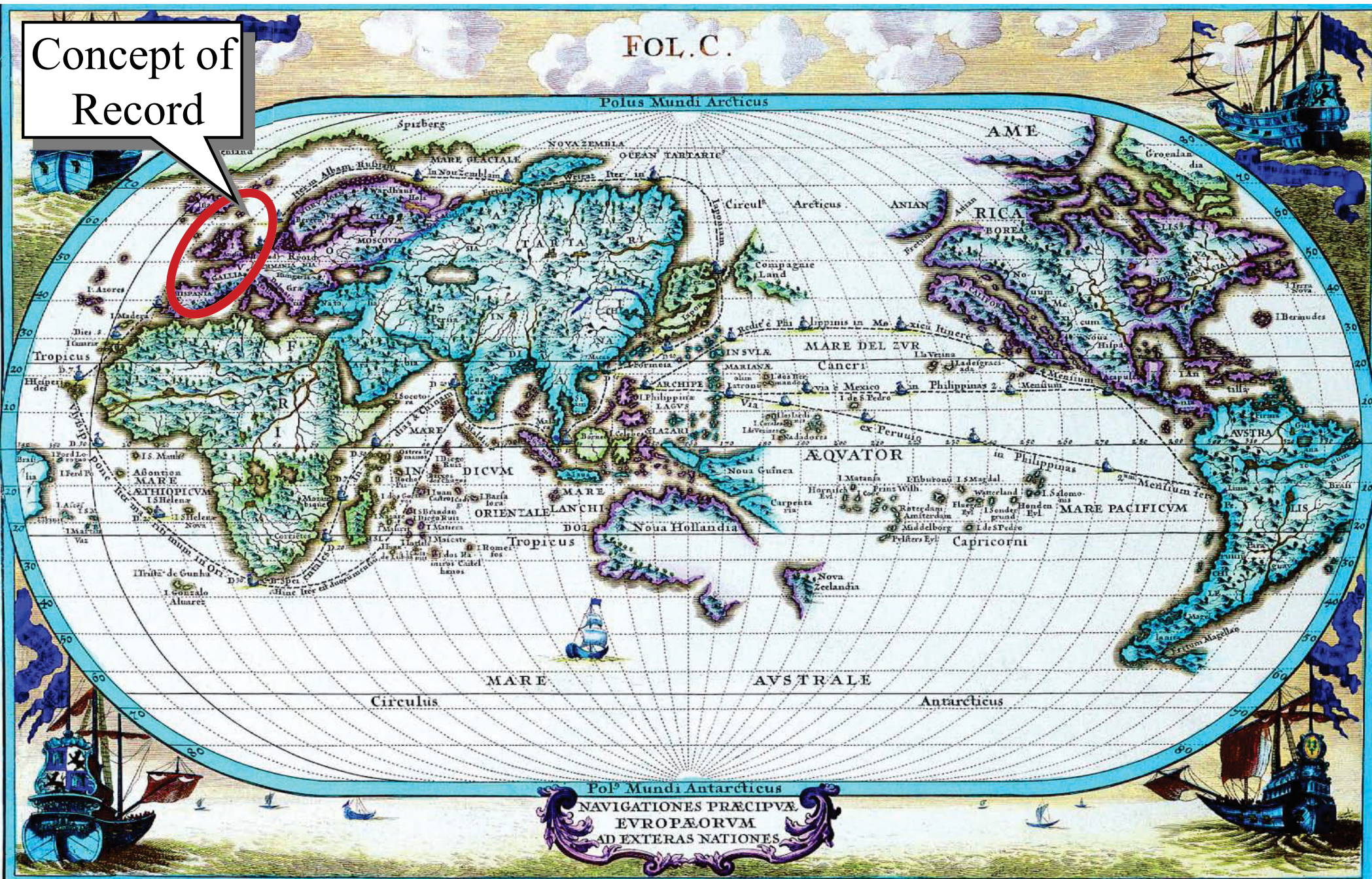
Models





Exploring InterPARES

Concept of Record



Concept of Record

- Expanded definition
 - practicality of activities
 - manifest record
- Records are created that cannot be maintained, e.g., VanMap

“Born digital”
does not mean
“Lived and died digital”

Concept of Digital Record



Records must have

- fixed form
- fixed content

Digital records

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

Fixed form and content

Fixed form and content \neq static form and content

Variable form
or
Variable content



“Bounded variability” = variations intended by the creator = Fixed form and content

Taxonomy of Records

Class	Description	Examples	Document	Record
Static	Fixed content and form	<ul style="list-style-type: none"> • Pre-set database reports • Snapshots of web pages 	☑	☑
Interactive – non-dynamic	Rules governing content or form <i>do not</i> vary	<ul style="list-style-type: none"> • Online sales catalogues • Interactive web pages 	☑	☑
Interactive - Dynamic	Rules governing content or form <i>may</i> vary	<ul style="list-style-type: none"> • Personalized web page presentations • Reports drawing from external data (e.g., weather) • Adaptive computing (e.g., artworks / business forecasts) 	☑	?



VanMap Case Study

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

city of VANCOUVER
VanMapLite Help Go

Click map to: Zoom In Zoom Out Recenter Identify

Bookmarks: + X 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	
Property Dimensions	
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

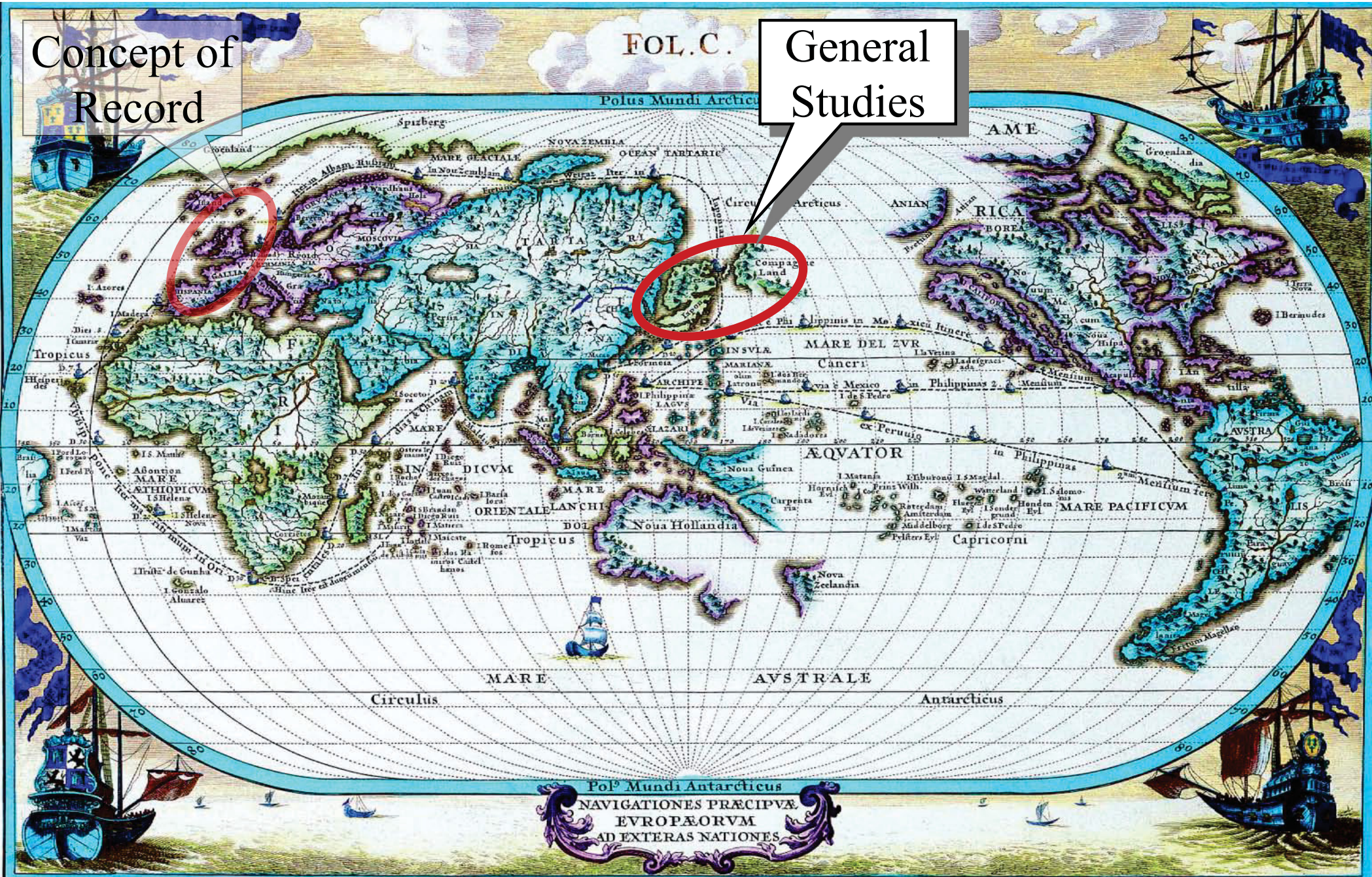
- VanMap *could* preserve records of business transactions *if*:
 - history file of data in the system
 - detailed descriptions of business processes, including how VanMap is used (*formularium*)
 - Form and content of records varies within established boundaries



Exploring InterPARES

Concept of Record

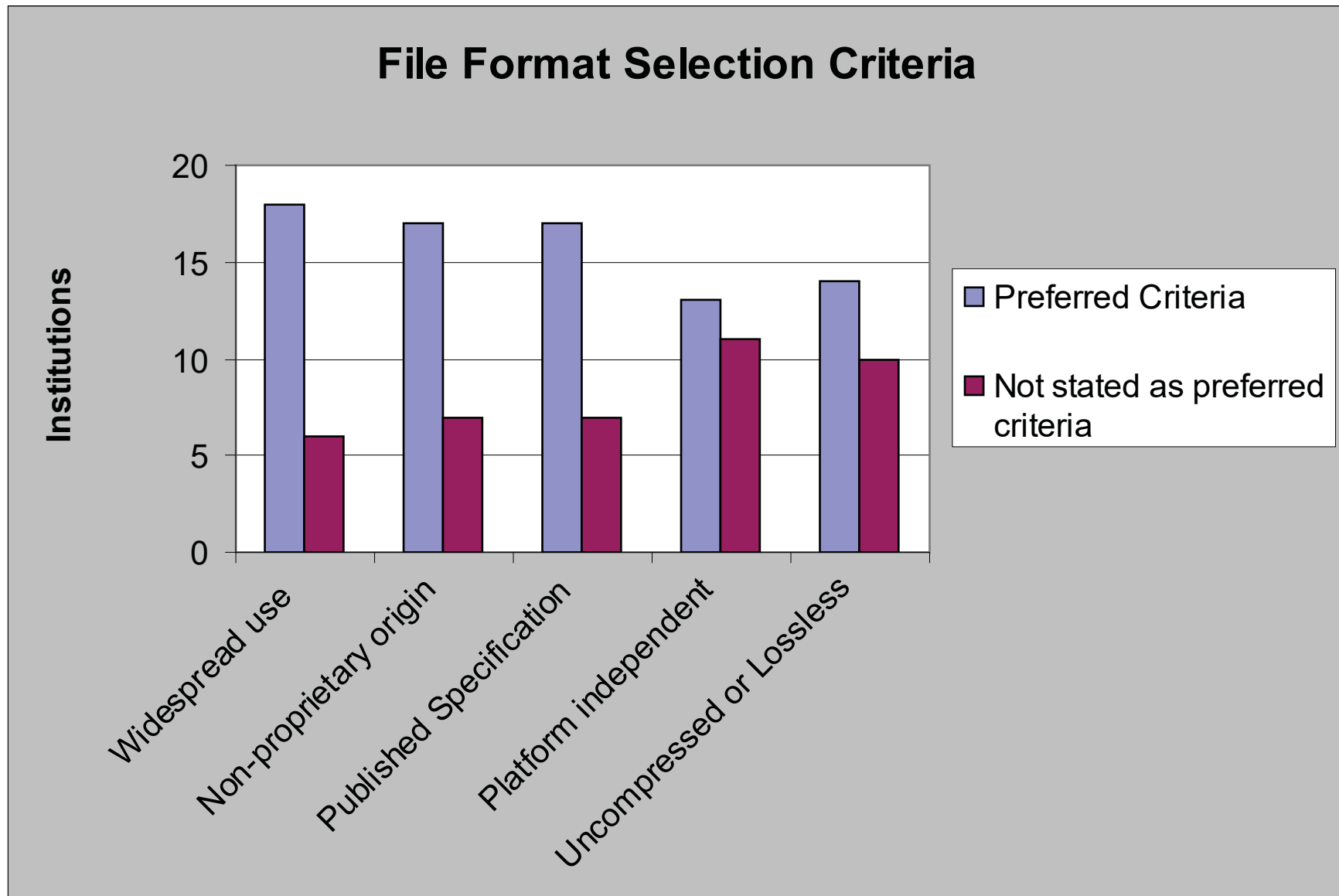
General Studies



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



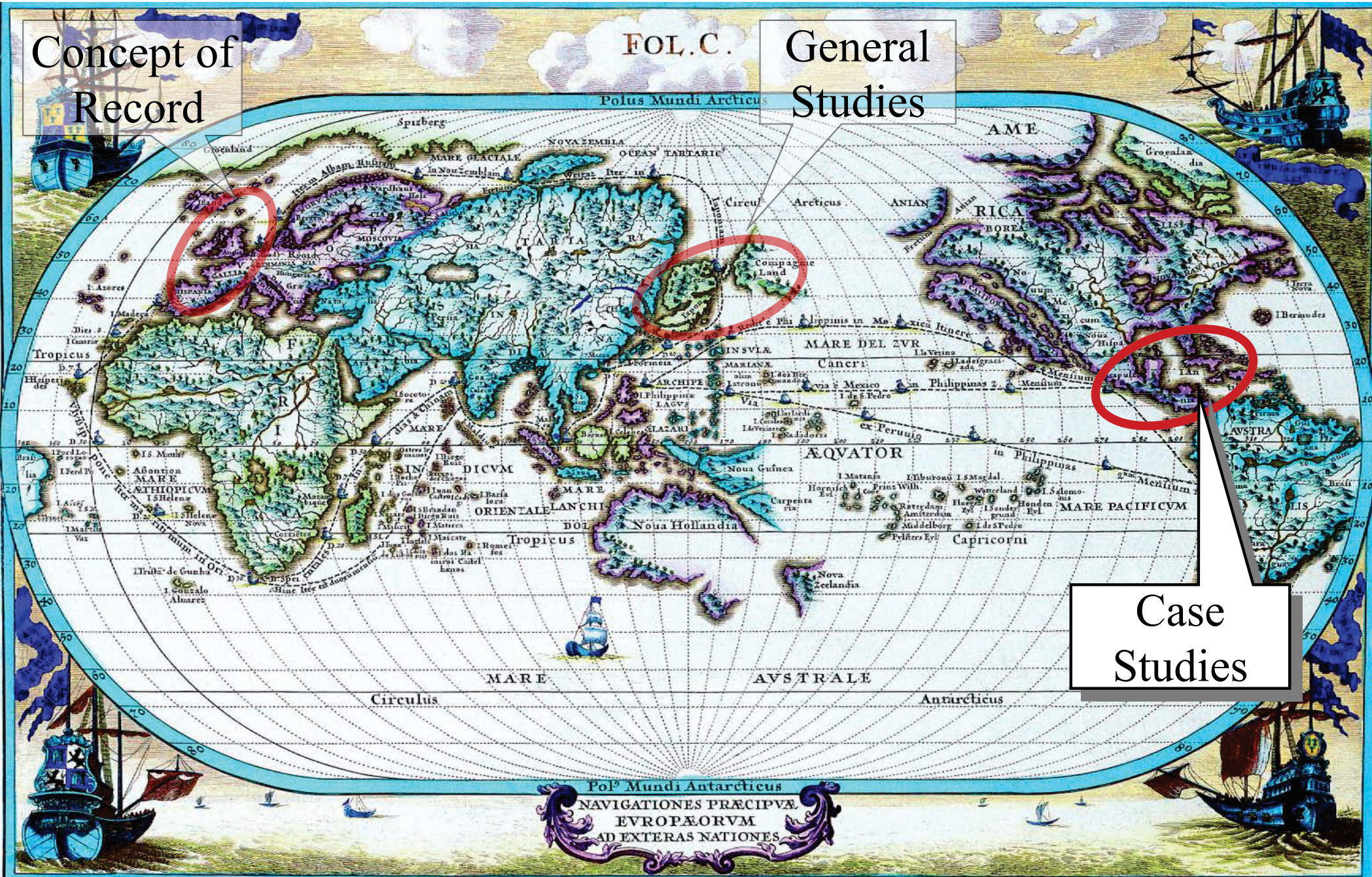


Exploring InterPARES

Concept of Record

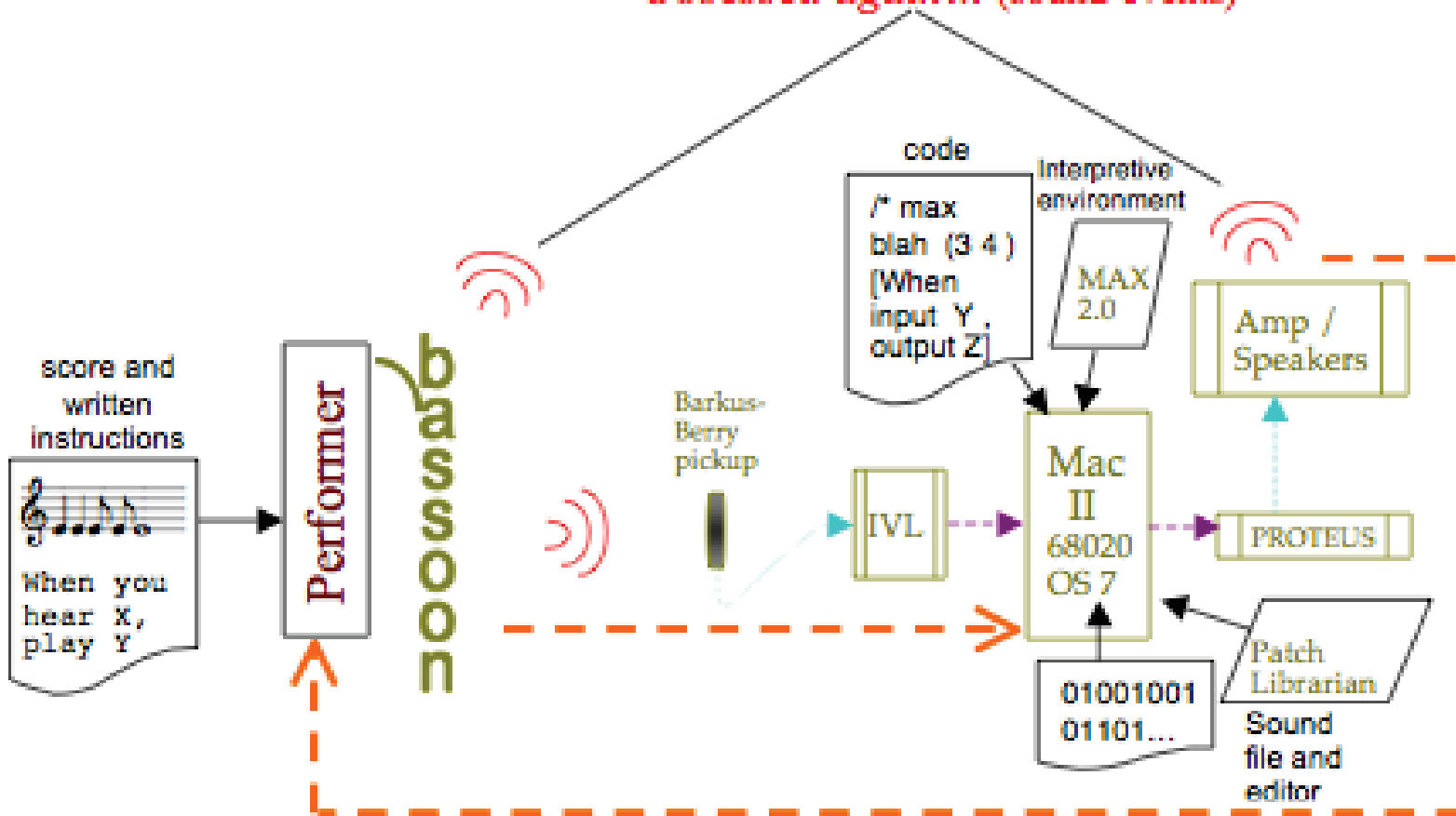
General Studies

Case Studies



Obsessed Again...

Obsessed again... (sound-events)



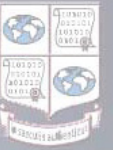
---▶ MIDI signals

---▶ Analog-electrical audio signals

—▶ Instructions

---▶ Interactive signals

Descriptor Composer-specified instrumentation



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?

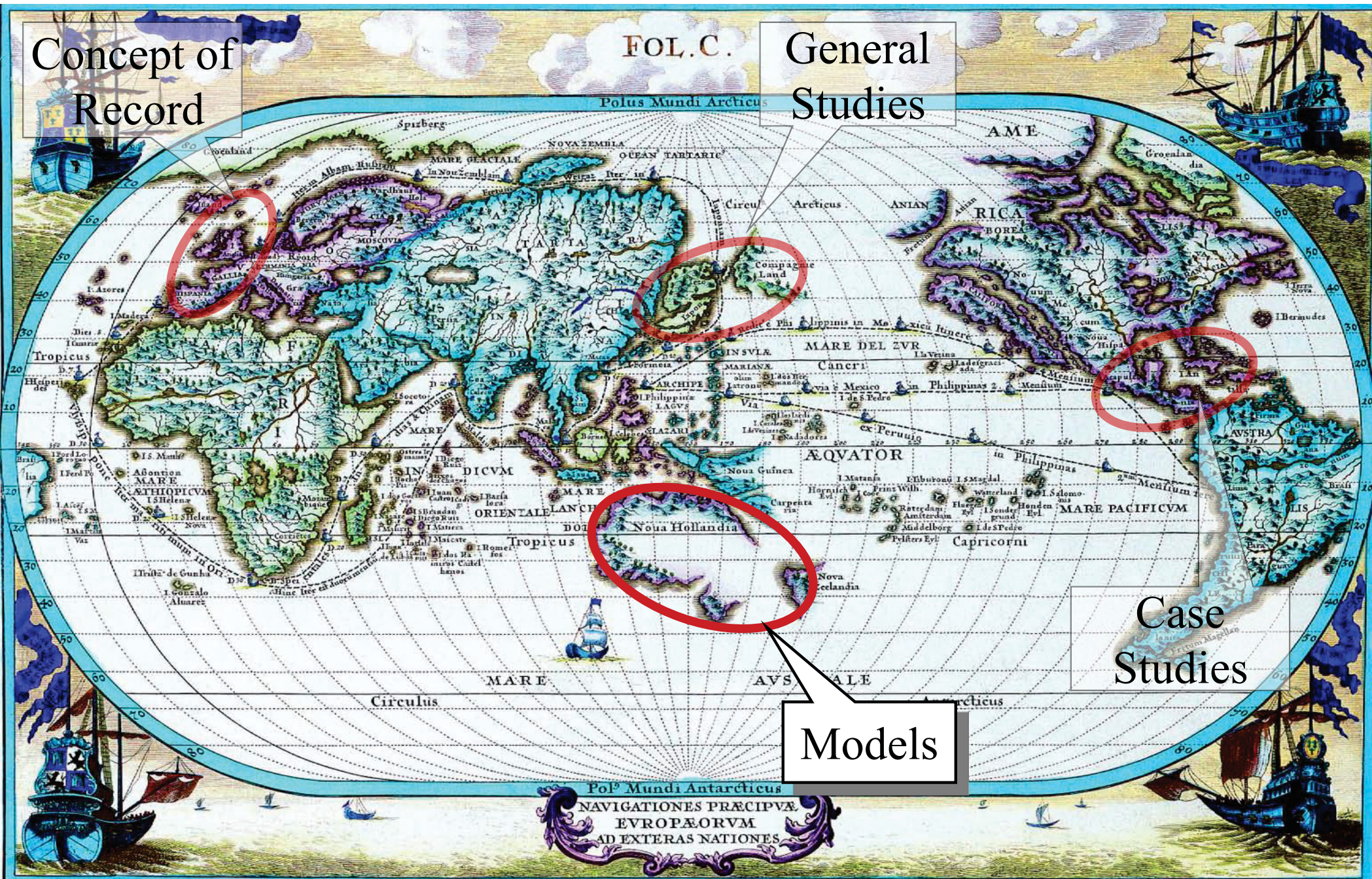
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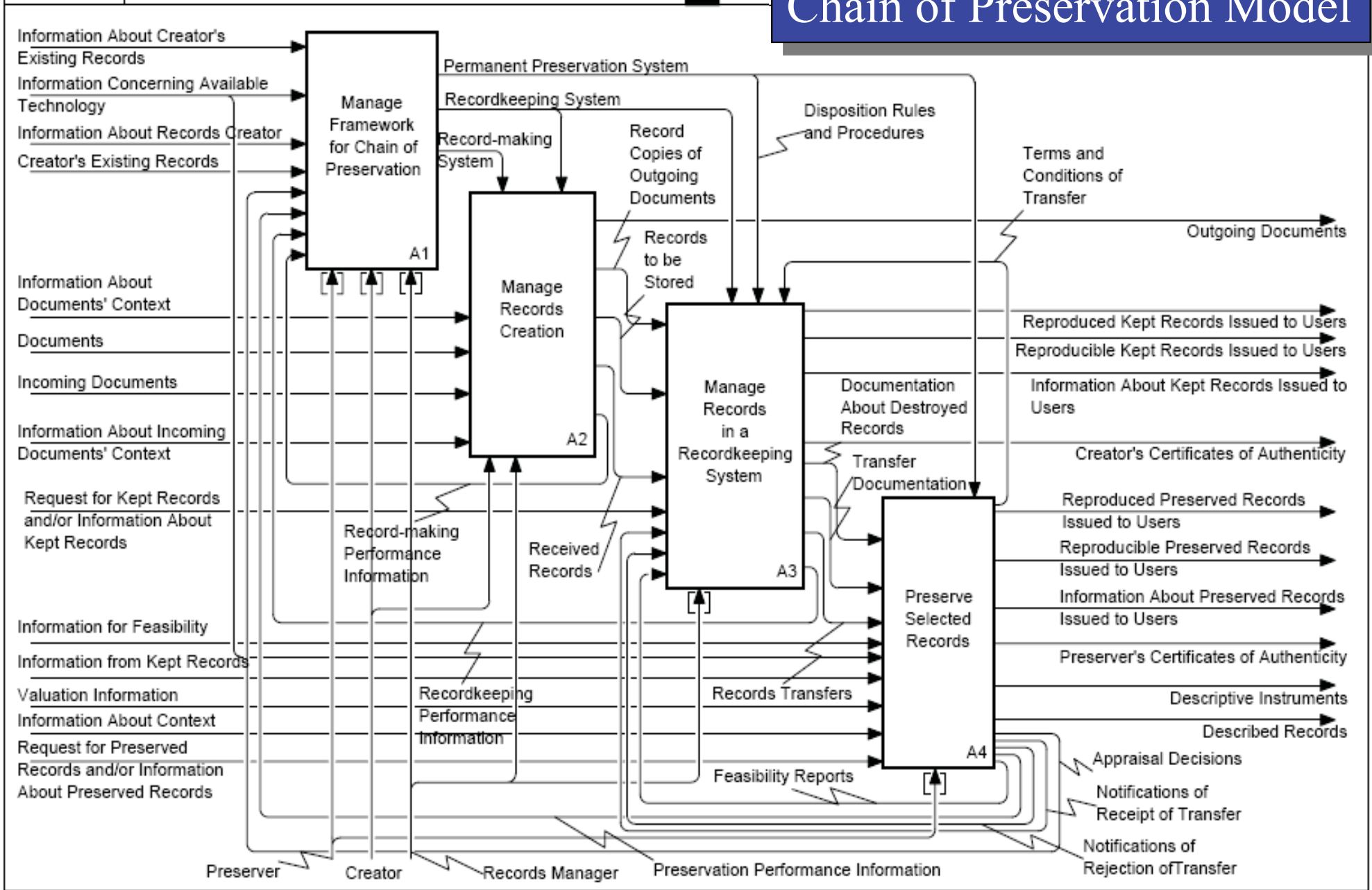
Case Studies

Models



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			

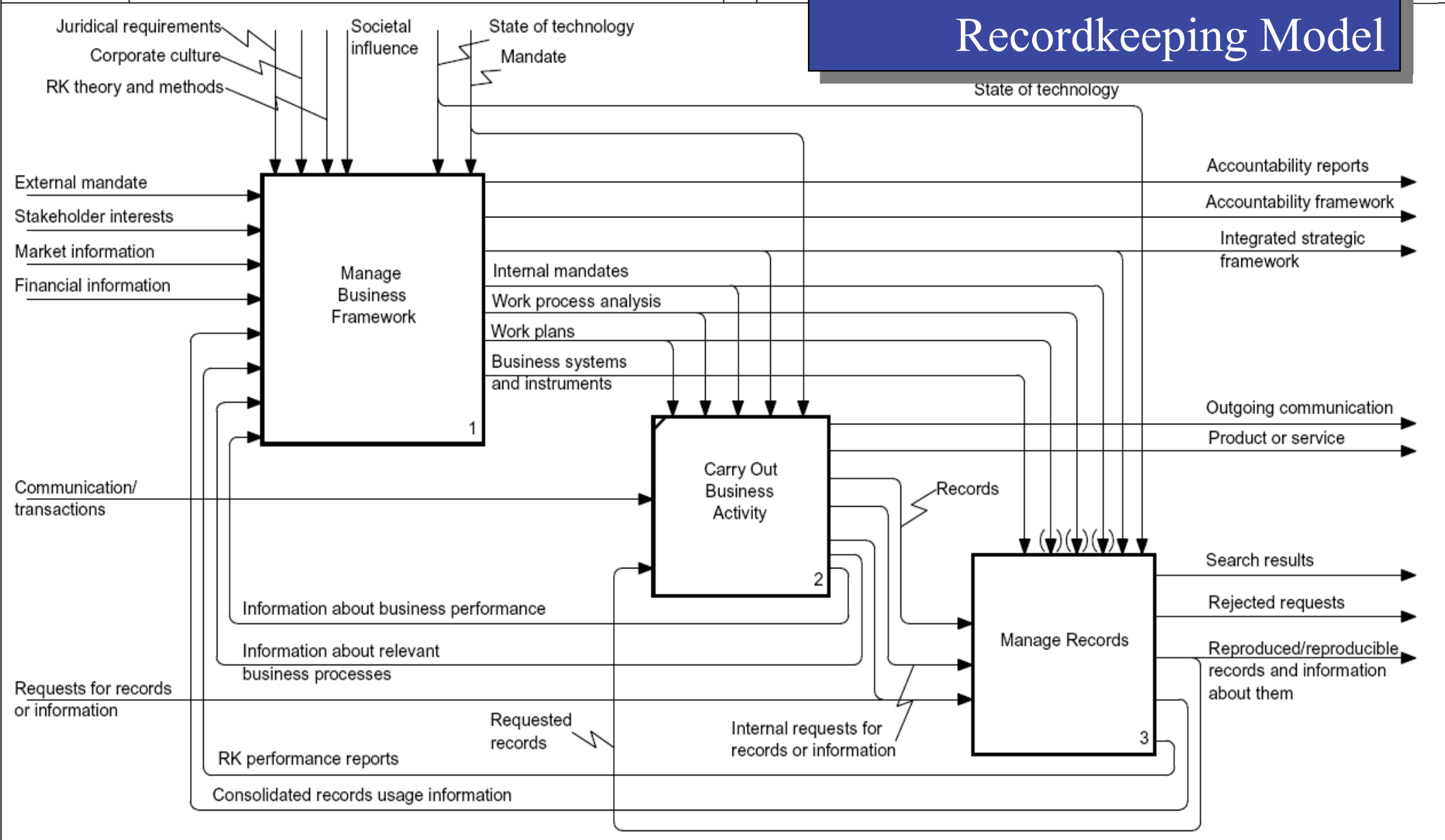
Chain of Preservation Model



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

Business-Driven Recordkeeping Model



NODE: A0	TITLE: Manage Business	NUMBER:
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Exploring InterPARES

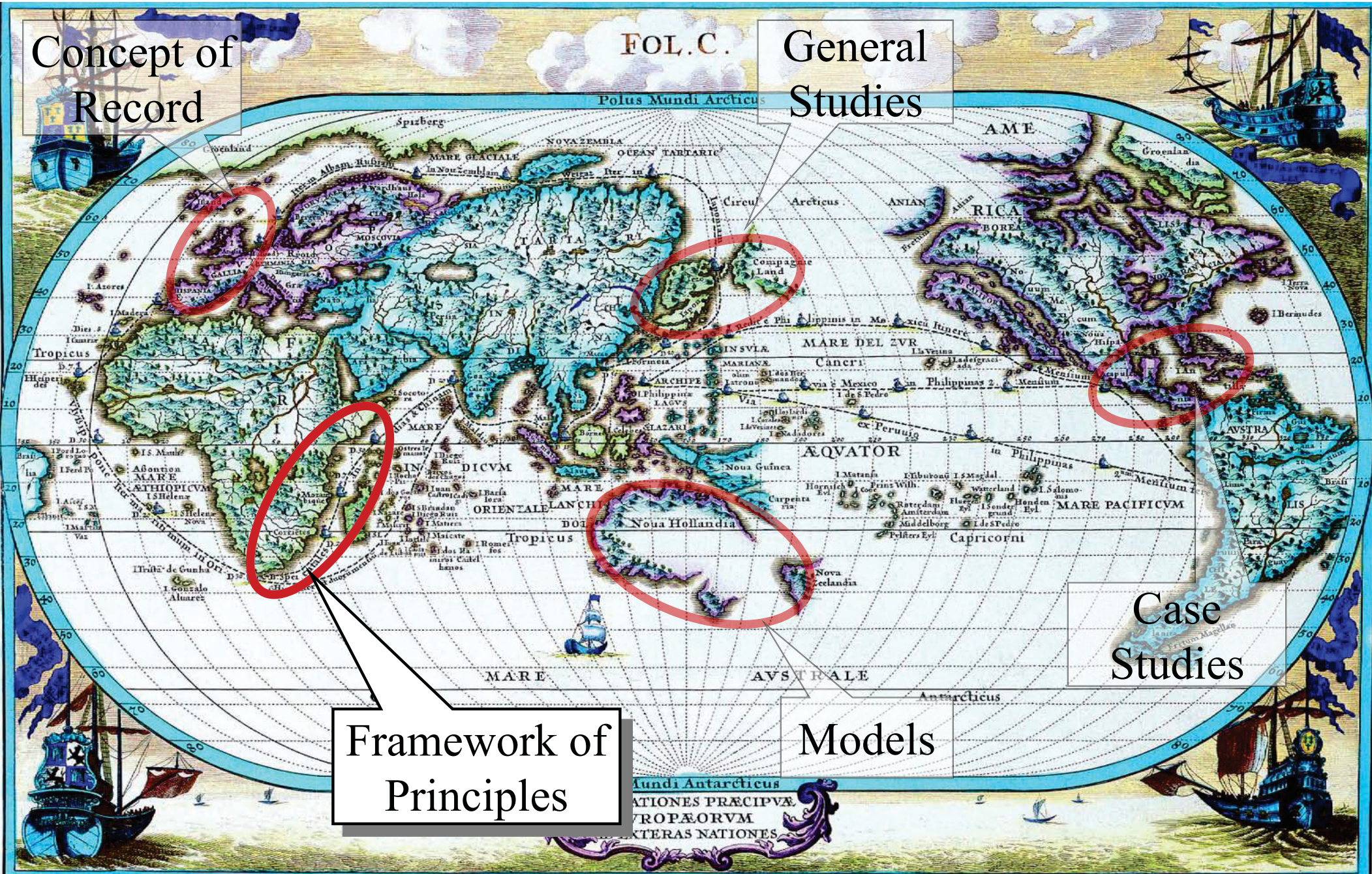
Concept of Record

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Framework of Principles

Models



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

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.



Thank you!

Jim Suderman

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