

# Los entornos del documento electrónico: experiencial, dinámico e interactivo

Presented at the

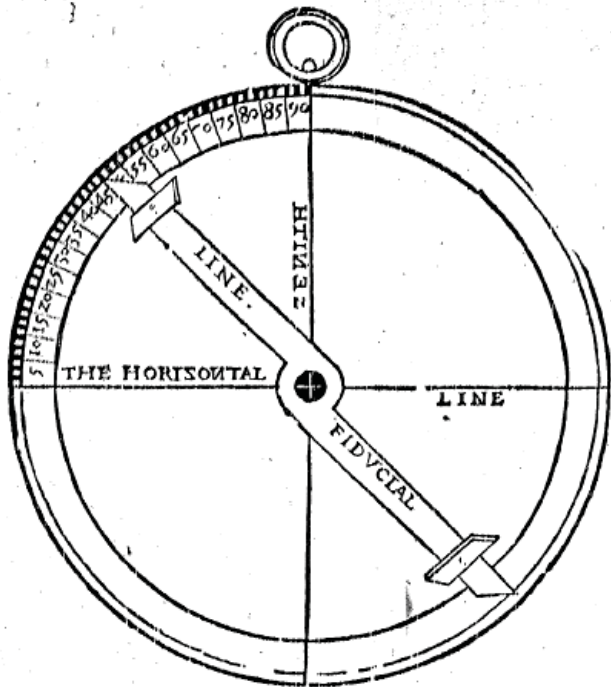
Congreso de Archivos Municipales  
Españoles

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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

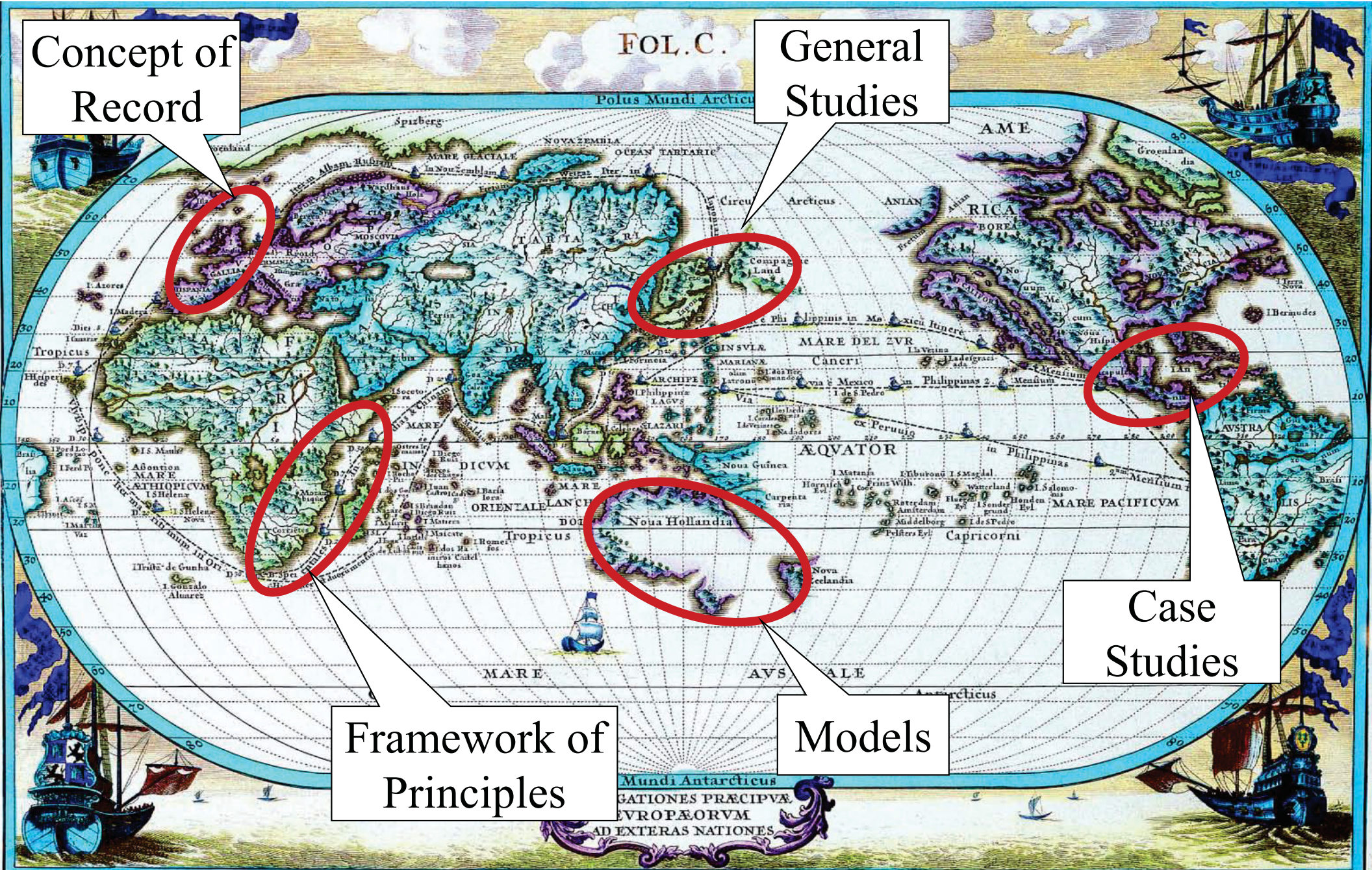
Concept of Record

General Studies

Case Studies

Framework of Principles

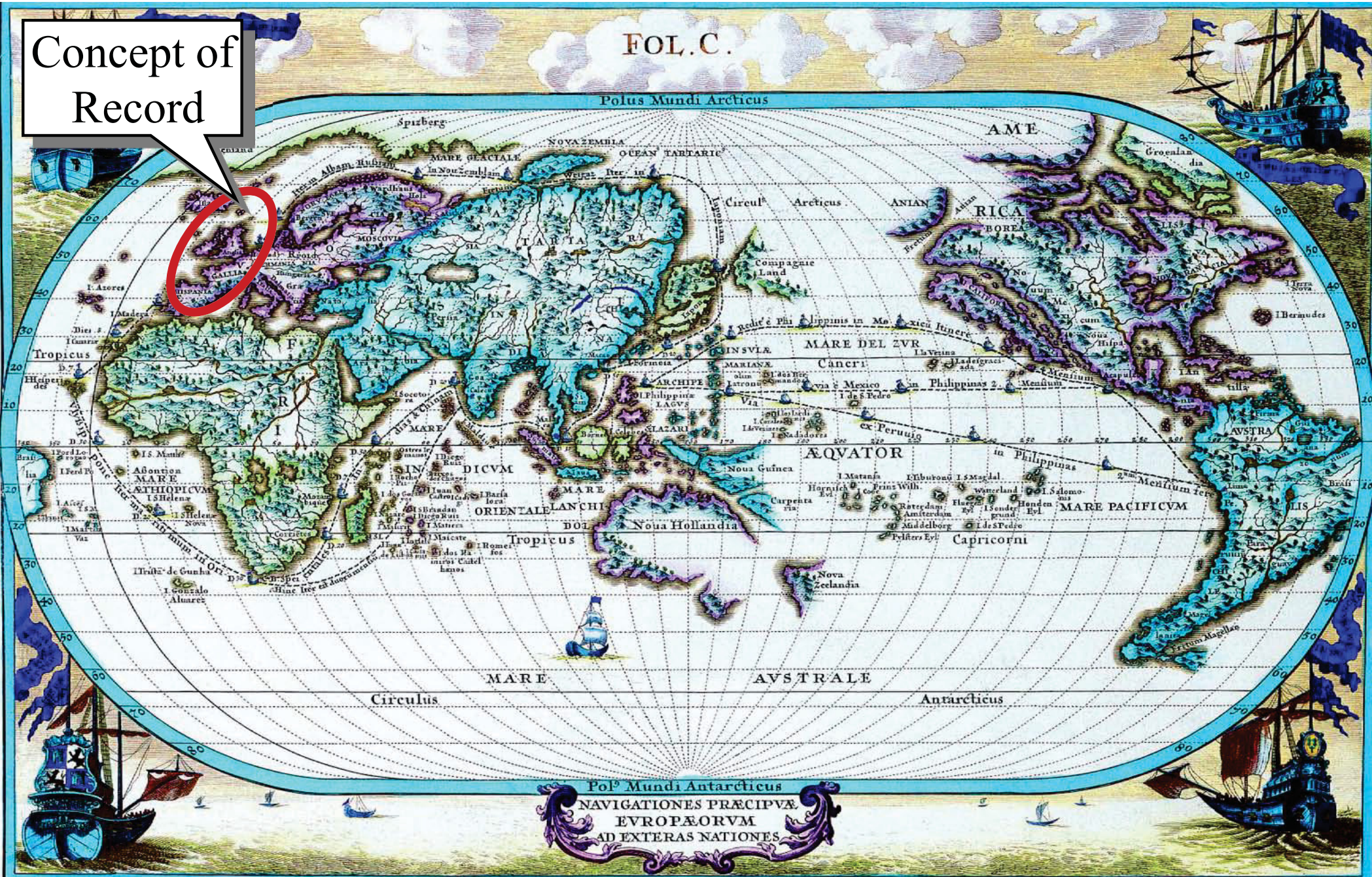
Models





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





# 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

# VanMap Case Study

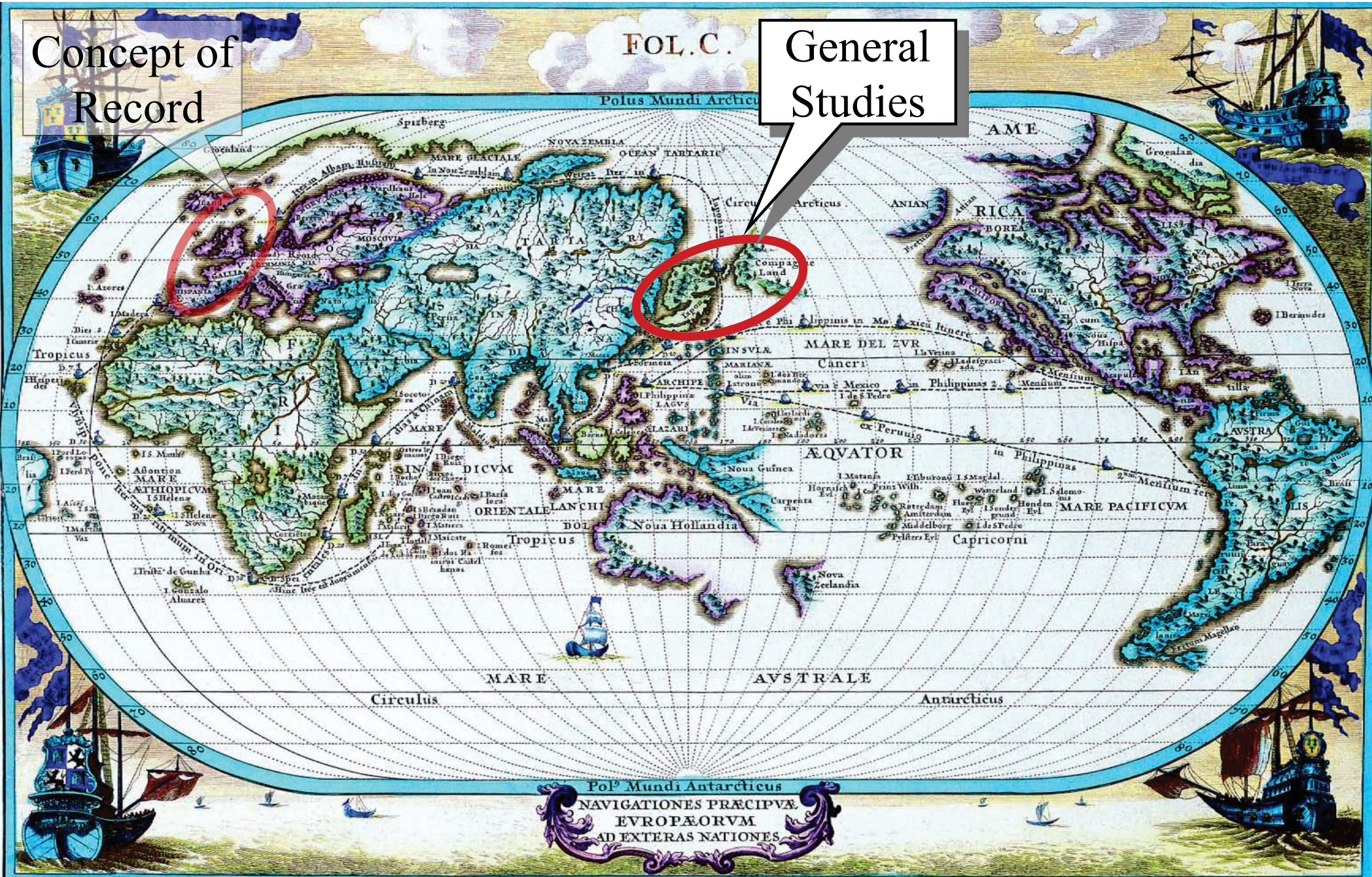
- VanMap *could* preserve records of business transactions *if*:
  - history file of data in the system
  - detailed descriptions of business processes, including how VanMap is used (*formularium*)
  - Form and content of records varies within established boundaries



# Exploring InterPARES

Concept of Record

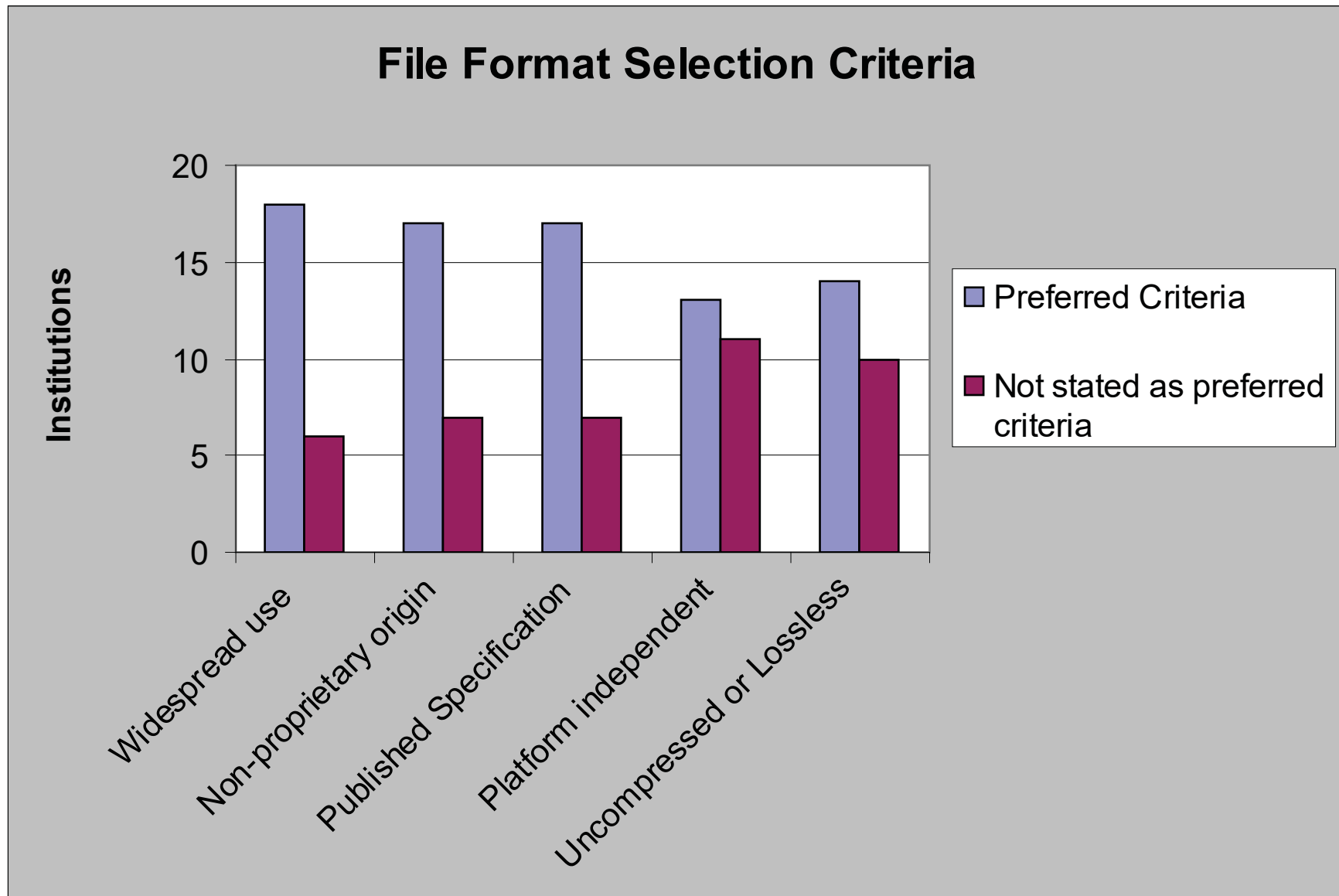
General Studies



# 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



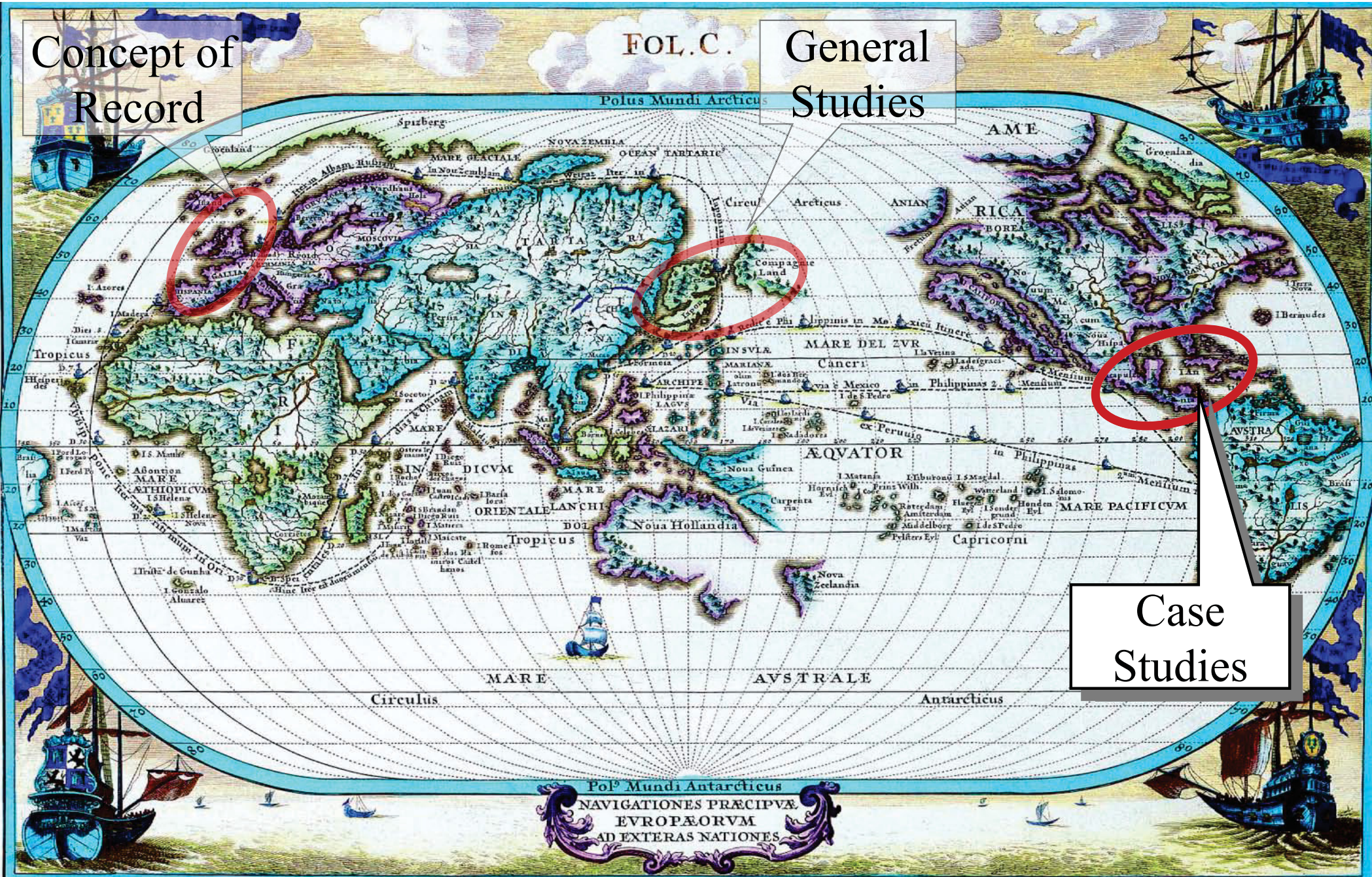


# Exploring InterPARES

Concept of Record

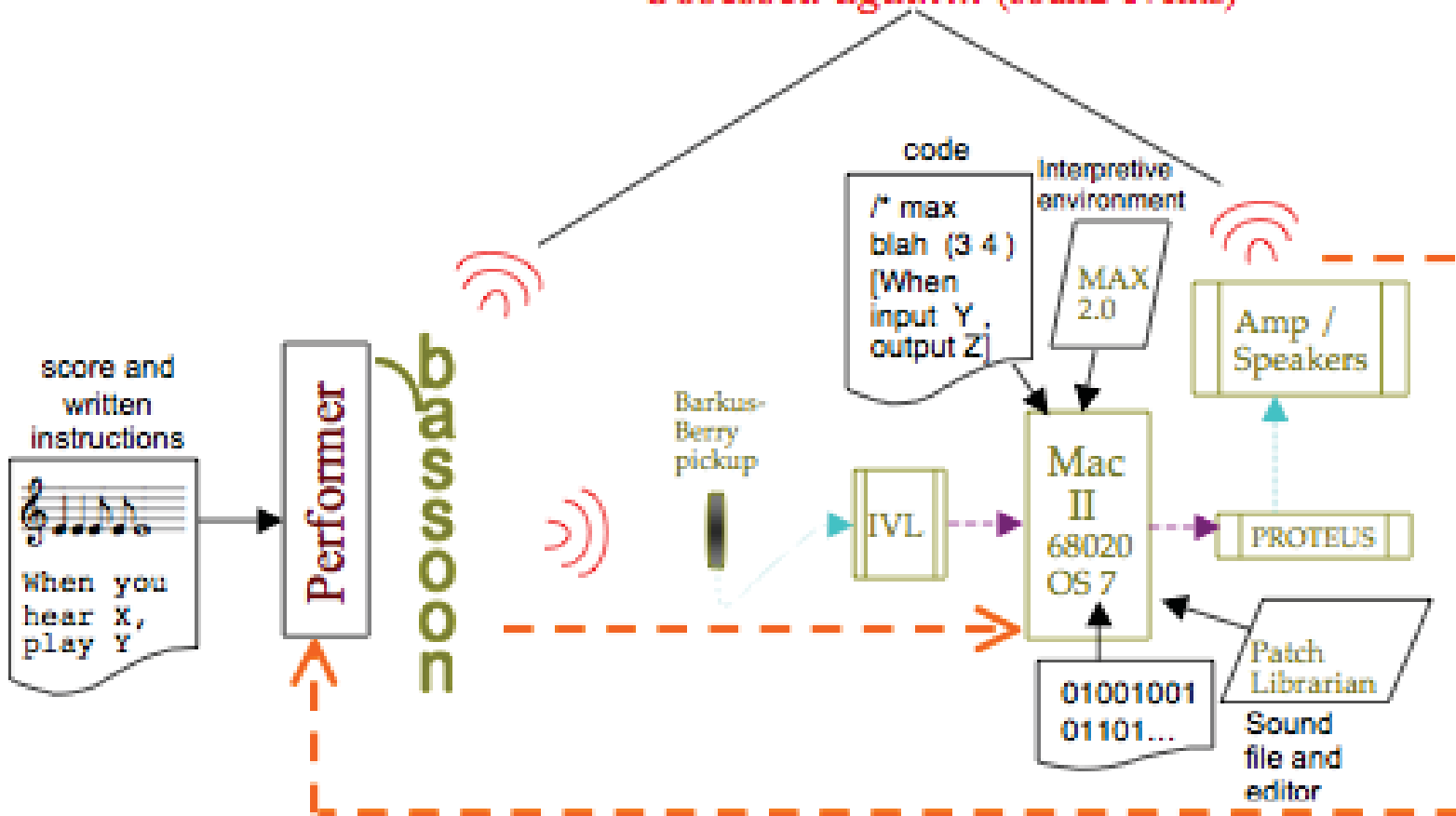
General Studies

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?

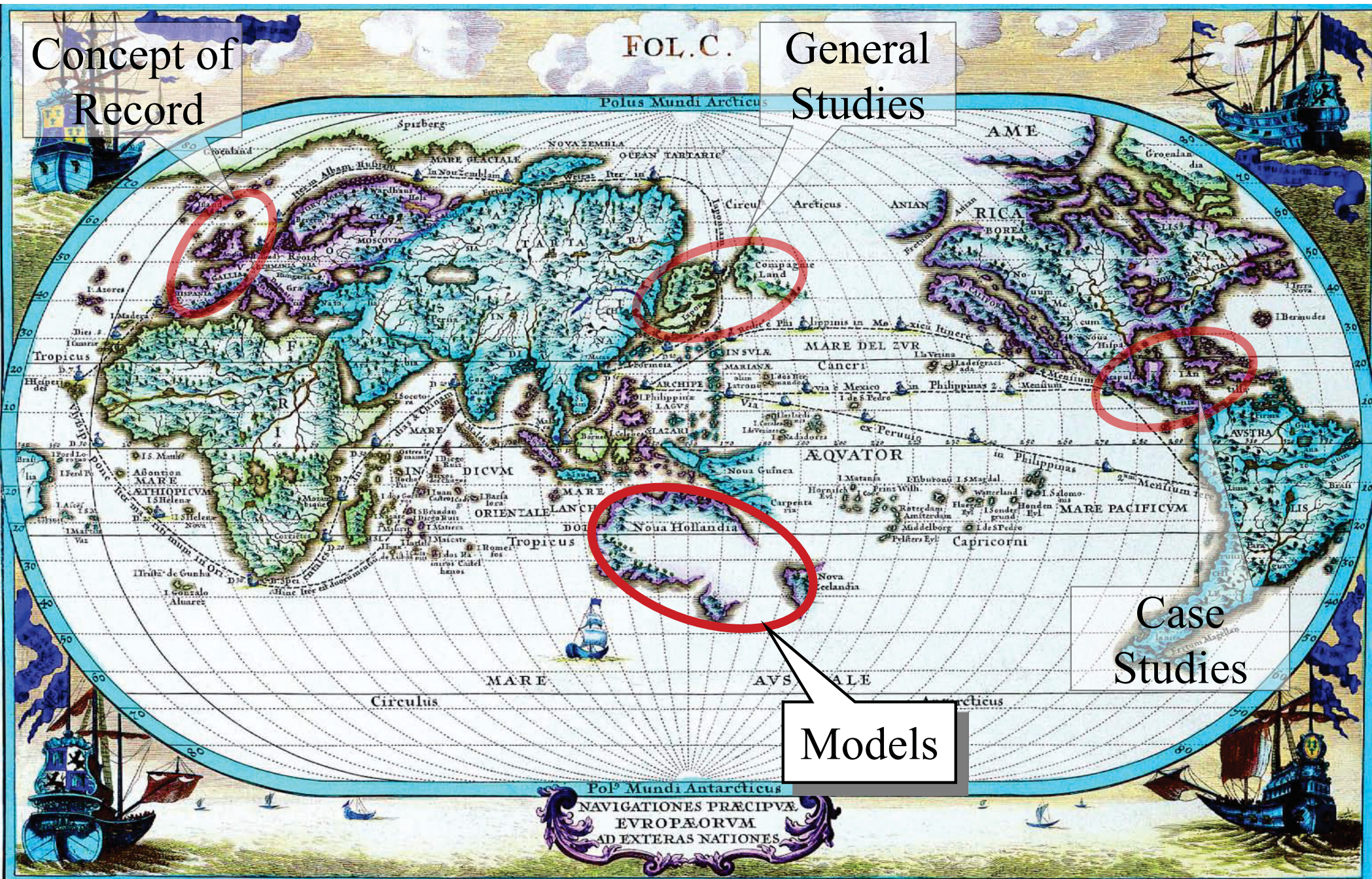
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Concept of Record

General Studies

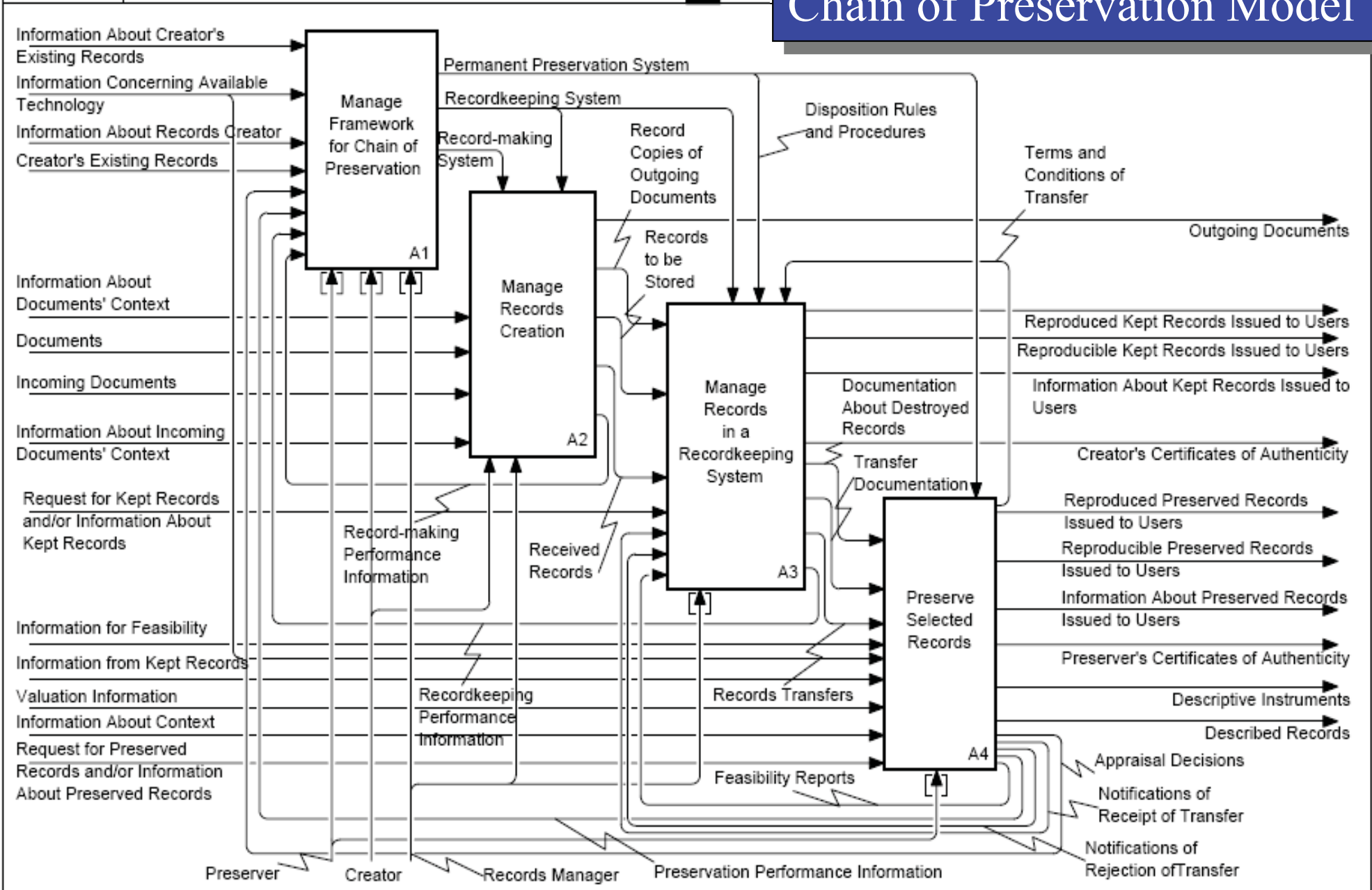
Case Studies

Models



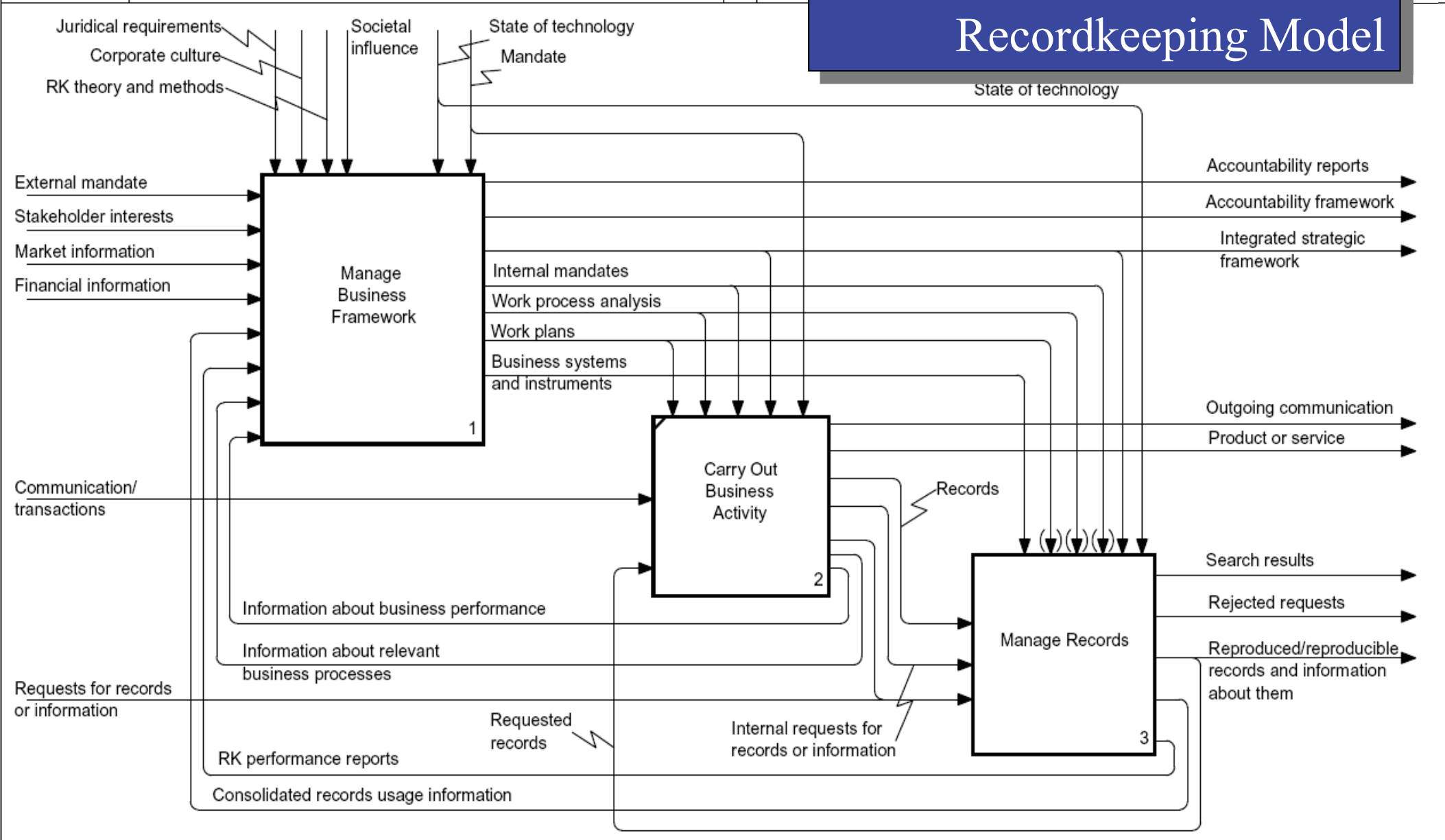
USED AT:	AUTHOR: UBC	DATE: 19/01/2004	WORKING	READER	DATE	CONTEXT:
	PROJECT: Manage the Chain of Preservation	REV: 30/05/2005	DRAFT			
			RECOMMENDED			
	NOTES: 1 2 3 4 5 6 7 8 9 10		PUBL			

# Chain of Preservation Model



NODE: <b>A0</b>	TITLE: <b>Manage Chain of Preservation</b>	NUMBER:
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# Business-Driven Recordkeeping Model





# Exploring InterPARES

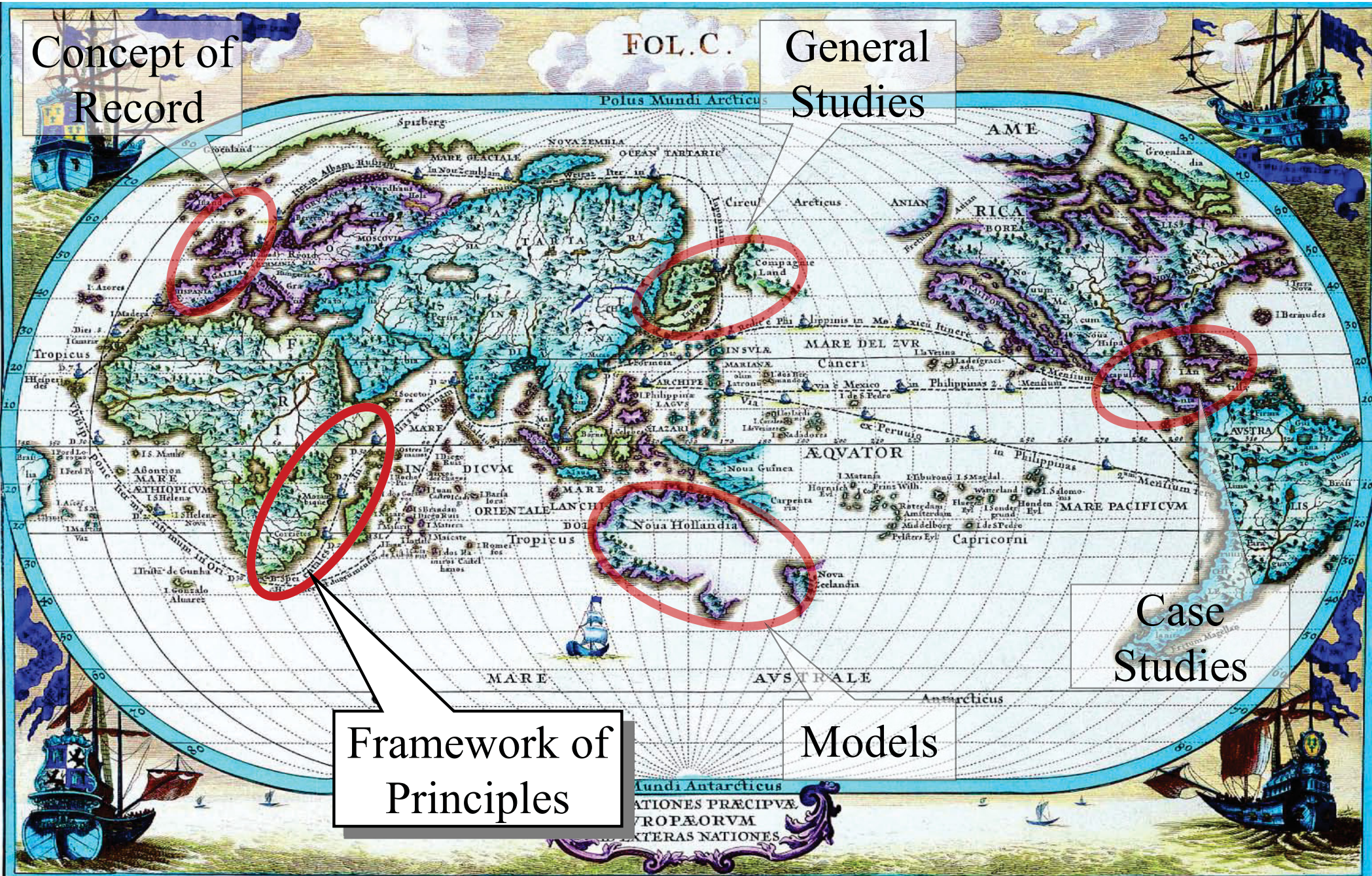
Concept of Record

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Case Studies

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:

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*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.

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# Thank you!

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