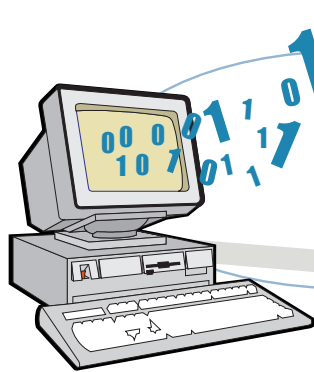




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How do you know it's the *real* thing?



Today?



100 years from now?

Research Domain 1

What is required to prove the authenticity of electronic records?

Research Domain 2

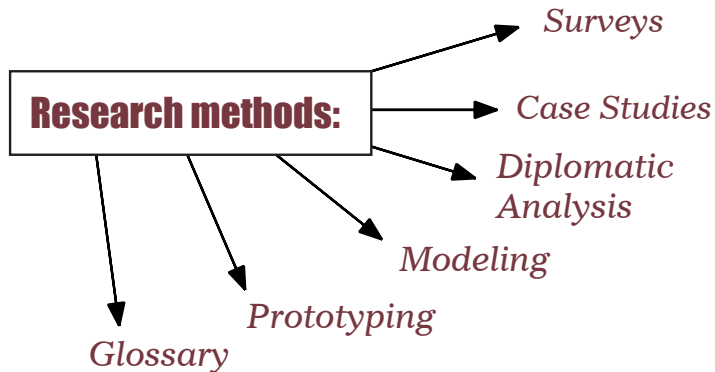
How do we select electronic records for preservation?

Research Domain 3

How do we preserve authentic electronic records?

Research Domain 4

What policies, strategies & standards will protect the authenticity of electronic records over time?

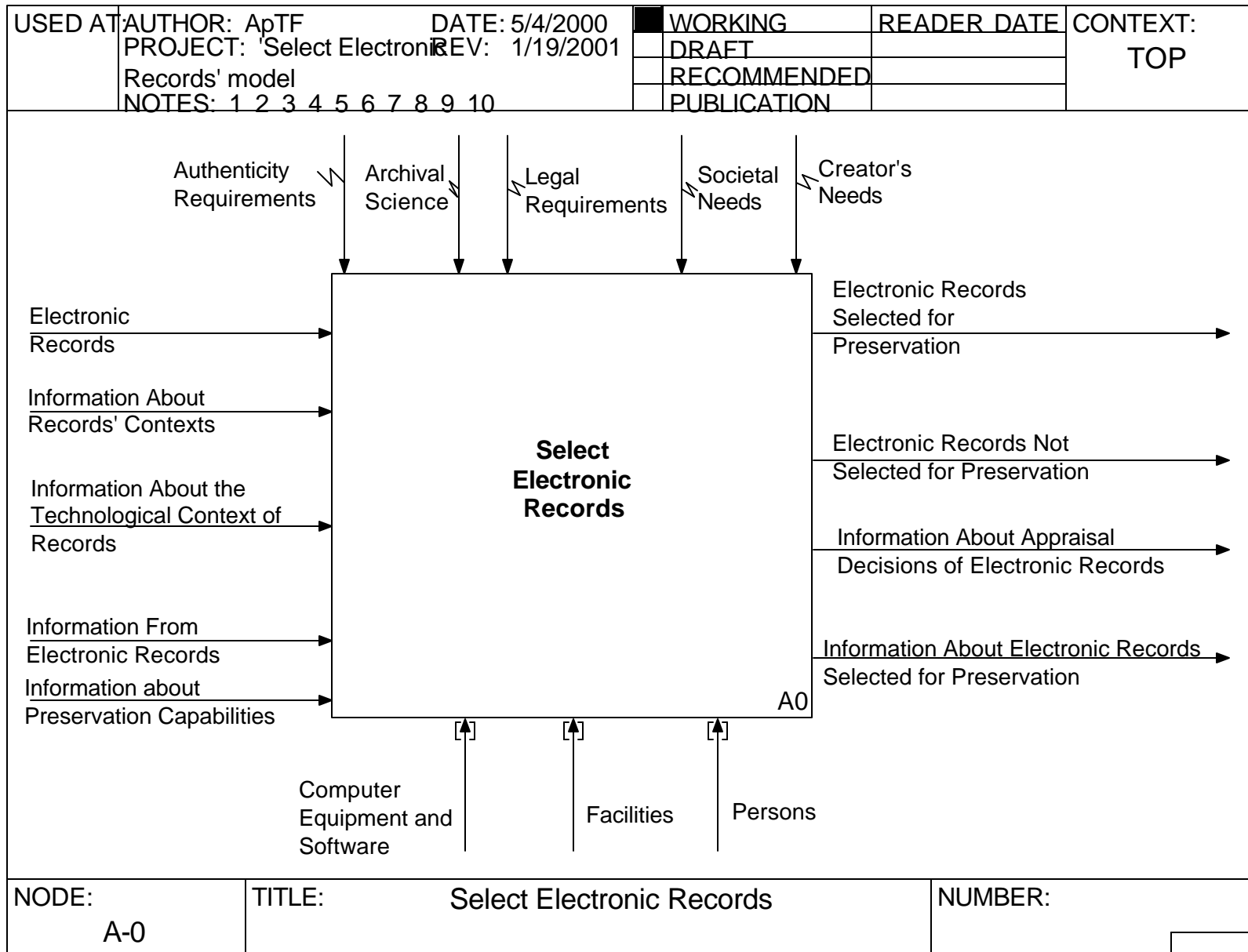


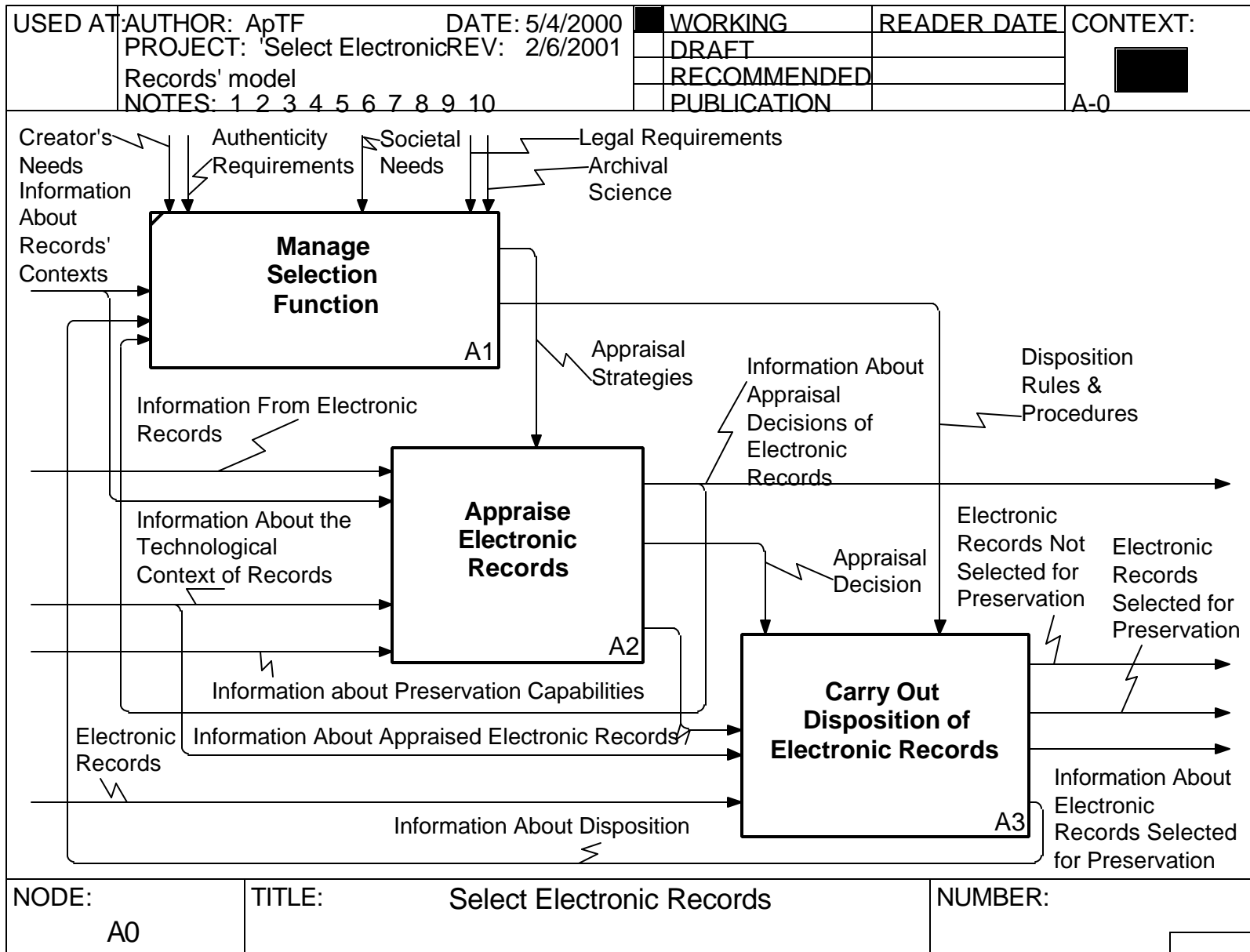
Holding governments, organizations, and individuals accountable

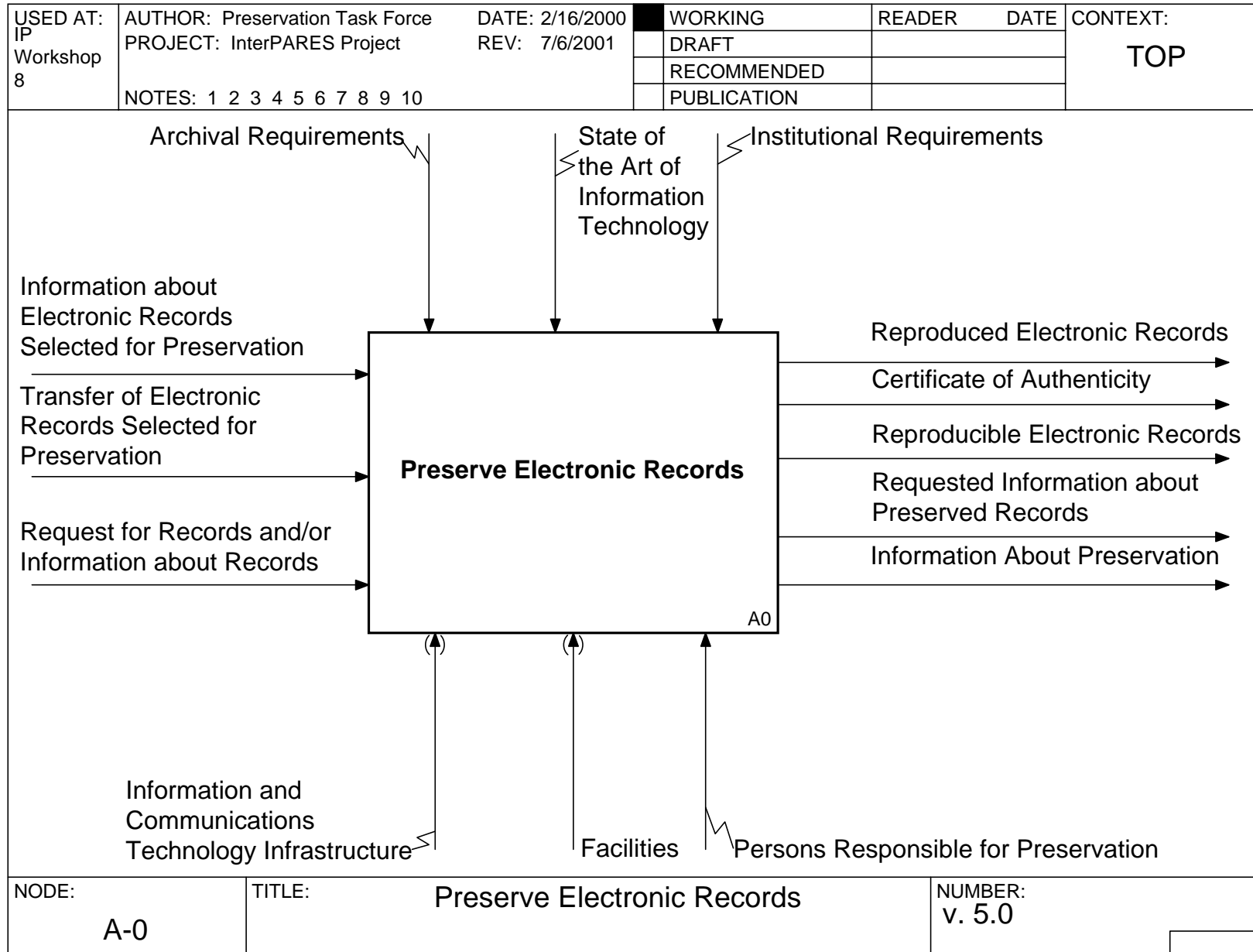
Research benefits:

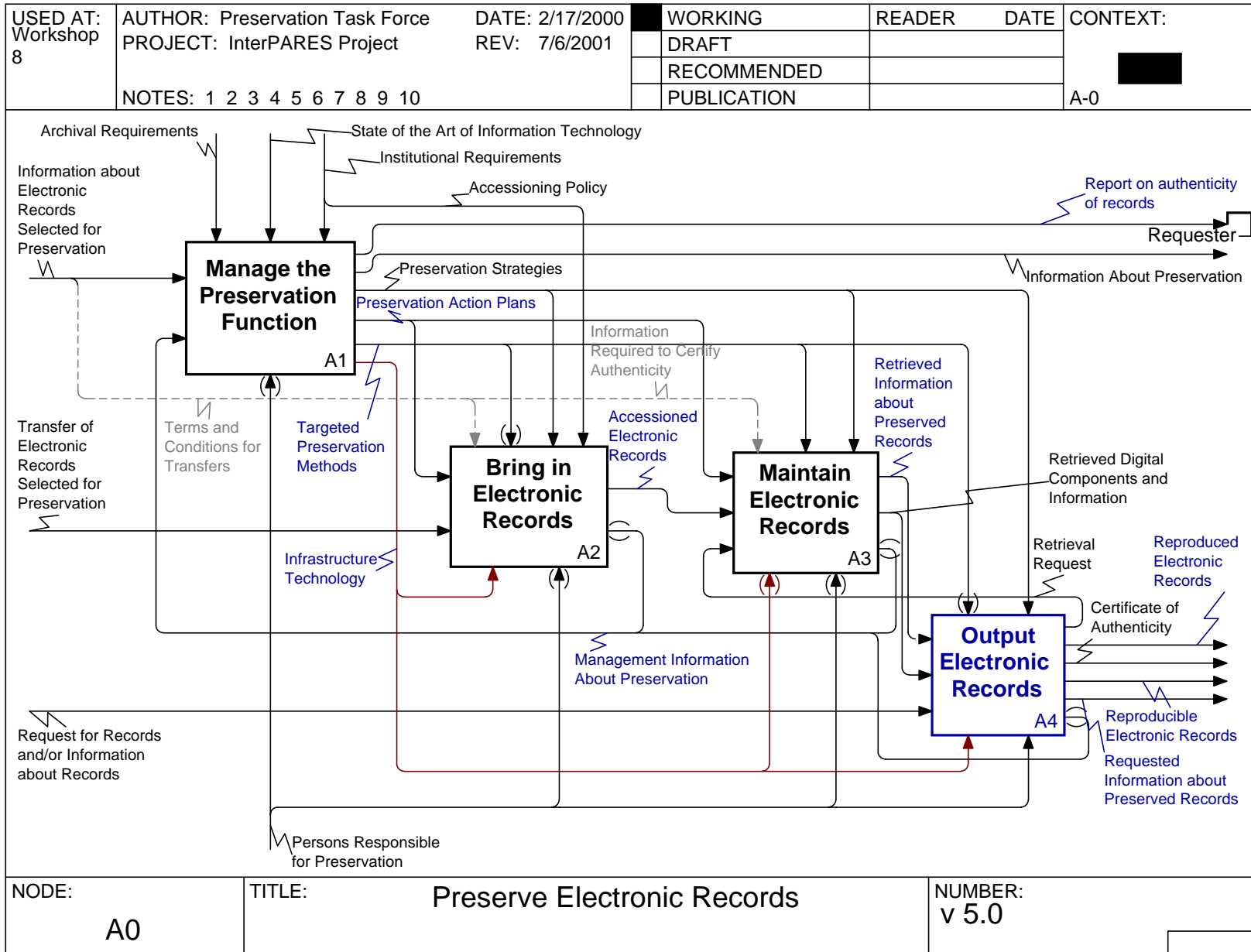
Ensuring the trustworthiness of research sources and data

Preserving the authentic recorded memory of our society









NODE: A0	TITLE: Preserve Electronic Records	NUMBER: v 5.0
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Preserving Authentic Electronic Records A Report on the InterPARES Project



US-InterPARES Project

International Research on Permanent Authentic Records in Elec tronic Systems

Philip B. Eppard
ECURE 2001

Purpose of the InterPARES Project

- ◆ To develop the theoretical and methodological knowledge essential for the permanent preservation of records generated electronically.
- ◆ To formulate model policies, strategies, and standards capable of ensuring their preservation.



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Previous UBC Project

Born out of previous UBC research.

- "[The Preservation of the Integrity of Electronic Records](#)" ("The UBC Project").
- Defined the requirements for creating, handling and preserving reliable and authentic electronic records in *active* recordkeeping systems.

With U.S. Department of Defense.

- Developed DoD Records Management standard 5015.2.



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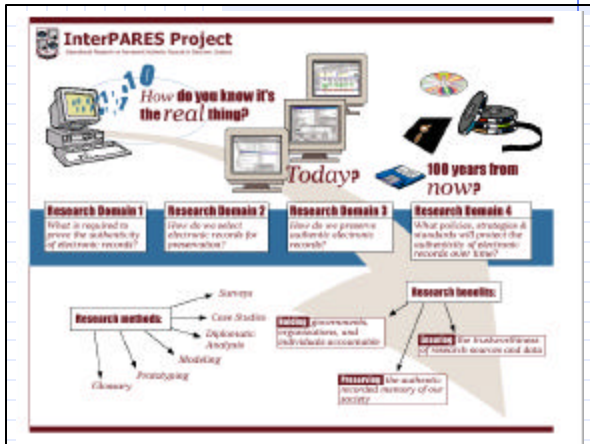
Participants

- ◆ International Team
- ◆ National Research Teams
 - Canada, USA, Italy, Australia, China
- ◆ Multi-National Research Teams
 - Europe (UK, Ireland, France, Netherlands, Sweden)
- ◆ National Archival Institutions
- ◆ Global Industry Team



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Organization

Task Forces


1. Authenticity	3. Preservation
2. Appraisal	4. Strategies

Glossary Committee

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Methods & Analysis

- ◆ Contemporary Archival Diplomatics
- ◆ Functional Analysis
- ◆ Narrative Analysis
- ◆ IDEF0 Activity Modeling

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Authenticity Task Force

Research Question:

- What is required to prove the authenticity of electronic records?

Research Methods:

- Literature Review
- Functional & Narrative Analysis of Case Studies
- Contemporary Archival Diplomatic Analysis

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Template for Analysis

Based on elements of records identified by the study of diplomatics

1. Medium
2. Extrinsic elements
3. Intrinsic elements
4. Annotations
5. Context or framework



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Systems Studied by ATF

- Relational databases
- Accounting systems
- Records management systems
- Patent grants systems
- Student Registration Systems
- Info Management Systems
- Government Registries
- Computer Aided Design



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Conceptual Requirements for Assessing Authenticity

Benchmark requirements

- Before records are transferred to the preserver's custody

Baseline requirements

- After records are transferred to the preserver's custody



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Benchmark Requirements

1. Expression of Record Attributes & Linkage to Record
2. Access Privileges
3. Protective Procedures: Loss and Corruption of Records
4. Protective Procedures: Media and Technology



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Benchmark Requirements (cont.)

5. Establishment of Documentary Forms
6. Authentication of Records
7. Identification of Authoritative Record
8. Removal and Transfer of Relevant Documentation



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Baseline Requirements

1. Controls over Records Transfer, Maintenance, and Reproduction
2. Documentation of Reproduction Process and its Effects
3. Archival Description



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Authenticity Findings

- Authenticity often expressed implicitly, rather than explicitly
- Medium is not significant in assessing authenticity of records
- Records are inextricably embedded in their contexts



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Appraisal Task Force

Research Question:

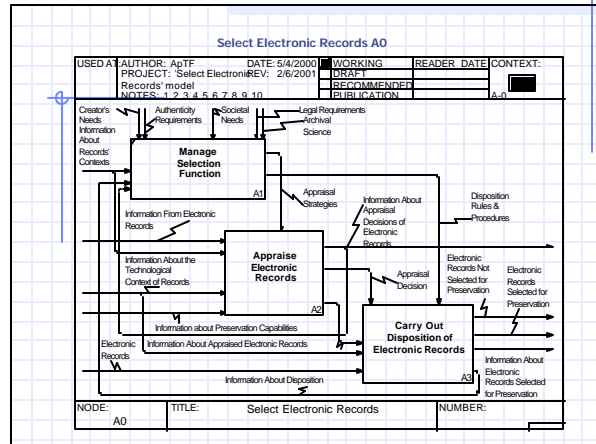
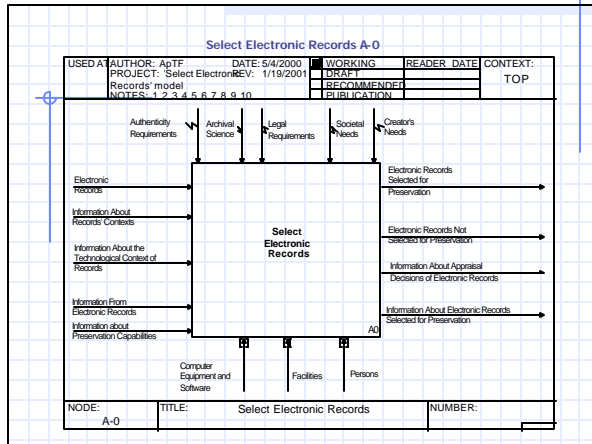
- How do we select electronic records for preservation?

Research Methods

- Literature Review
- Activity Modeling




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Appraisal Findings

- ◆ Assess authenticity of the records
- ◆ Determine the feasibility of preservation
- ◆ Records must be appraised early
- ◆ The appraisal decision must be regularly monitored



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Preservation Task Force

Research Question:

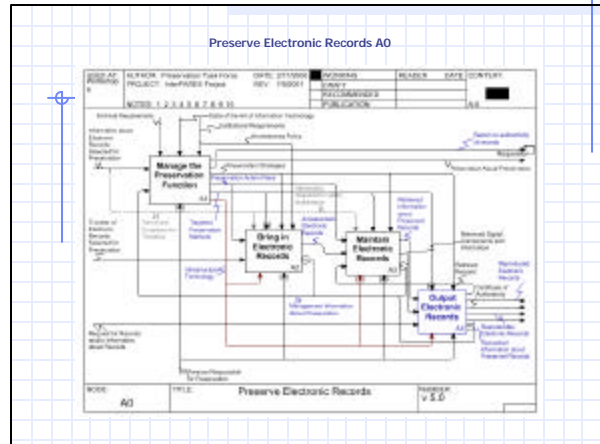
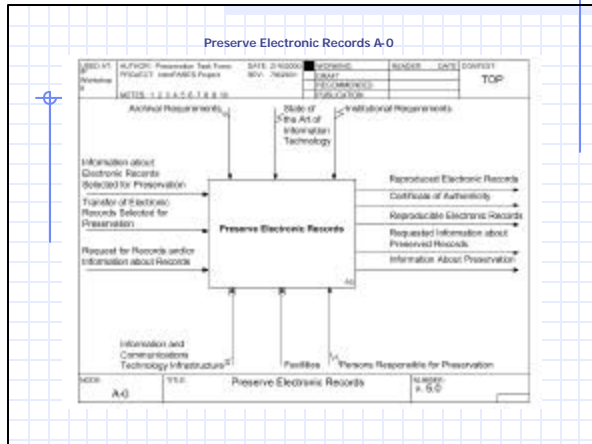
- How do we preserve authentic electronic records?

Research Methods:

- Literature Review
- Surveys
- Case Studies
- Activity Modeling



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Preservation Findings

- ◆ Identification of digital components of electronic records
- ◆ Systematic & dynamic controls for preservation
- ◆ Archival requirements for preservation



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Preservation Findings (cont.)

- ◆ 'Original' electronic records vs. copies of electronic records
- ◆ Preservation means reproduction
- ◆ Chain of preservation



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Strategies Task Force

Research Question:

- What policies, strategies and standards will protect the authenticity of electronic records over time?

Adapt the recommendations of the other task forces to each national environment



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Further Information

US-InterPARES Website

<http://is.gseis.ucla.edu/us-interpares/>

InterPARES Website

<http://www.interpares.org>



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InterPARES 2

Records generated by interactive, dynamic, experiential, sensory and performance systems

- Electronic Government
- The Arts
- eCommerce



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