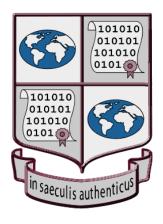
# InterPARES Project

**International Research on Permanent Authentic Records in Electronic Systems** 



# Continuity and Transformation in the Role of the Archivist

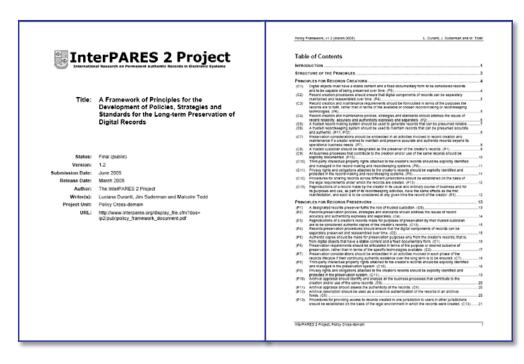
InterPARES 3 (2007-2012)

### The Goal of InterPARES 1 & 2

To develop the body of theory and methods necessary to ensure that digital records will be created accurate and reliable and maintained and preserved authentic, both in the long and the short term, for the use of those who created them and of society at large, regardless of technology obsolescence and media fragility.

#### **Policy Framework**

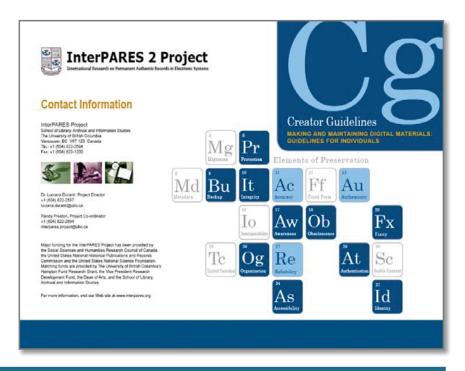
A framework of principles guiding the development of policies for records creating and preserving organizations





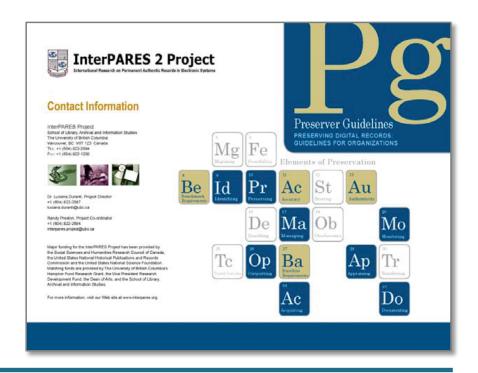
#### **Creator Guidelines**

Recommendations for making and maintaining digital materials for individuals and small communities of practice



#### **Preserver Guidelines**

Recommendations for digital preservation for archival institutions



#### **Benchmark and Baseline Requirements**

Authenticity requirements for assessing and maintaining the authenticity of digital records

#### « REQUIREMENT SET A »

To support a presumption of authenticity the preserver must obtain evidence that:

REQUIREMENT A.1: Expression of Record Attributes and Linkage to Record
The value of the following attributes are explicitly expressed and inextricably linked to every
record. These attributes can be distinguished into categories, the first concerning the identity of

records, and the second concerning the integrity of records.

#### A.1.a Identity of the record:

- A.1.a.i Names of the persons concurring in the formation of
  - name of author<sup>a</sup>
  - name of writer<sup>b</sup> (if different from the author)
  - name of originator<sup>c</sup> (if different from name of auth
     name of addressee<sup>d</sup>

#### A.1.a.ii Name of action or matter

- A.1.a.iii Date(s) of creation and transmission, that is:
  - chronological date<sup>e</sup>
  - received date<sup>f</sup>
     archival date<sup>g</sup>
  - transmission date(s)<sup>h</sup>

A.1.a.iv Expression of archival bond (e.g., classification code

A.1.a.v Indication of attachments

#### A.1.b Integrity of the record:

A.1.b.i Name of handling office

A.1.b.ii Name of office of primary responsibility<sup>k</sup> (if different f

A.1.b.iii Indication of types of annotations added to the recor

A.1.b.iv Indication of technical modifications<sup>m</sup>

#### REQUIREMENT A.2: Access Privileges

The creator has defined and effectively implemented access privilege modification, annotation, relocation, and destruction of records.

#### << REQUIREMENT SET A (cont) >>

REQUIREMENT A.3: Protective Procedures: Loss and Corruption of Records
The creator has established and effectively implemented procedures to prevent, discicorrect loss or corruption of records.

#### REQUIREMENT A.4: Protective Procedures: Media and Technology

The creator has established and effectively implemented procedures to guarantee the o identity and integrity of records against media deterioration and across technological c

#### REQUIREMENT A.5: Establishment of Documentary Forms

The creator has established the documentary forms of records associated with each p either according to the requirements of the juridical system or those of the creator.

#### REQUIREMENT A.6: Authentication of Records

which record is authoritative

If authentication is required by the juridical system or the needs of the organization, th has established specific rules regarding which records must be authenticated, by will the means of authentication.

#### REQUIREMENT A.7: Identification of Authoritative Record If multiple copies of the same record exist, the creator has established procedures the

REQUIREMENT A.8: Removal and Transfer of Relevant Documentation

REQUIREMENT A.8: Removal and Iransfer of Refevant Documentation if there is a transition of records from active status to semi-active and inactive statis involves the removal of records from the electronic system, the creator has establis effectively implemented procedures determining what documentation has to be removed to the preserver along with the records.

#### « REQUIREMENT SET B »

The preserver should be able to demonstrate that:

REQUIREMENT B.1: Controls over Records Transfer, Maintenance, and Reproduction The procedures and system(s) used to transfer records to the archival institution or program; maintain them; and reproduce them embody adequate and effective controls to guarantee the records' identity and integrity, and specifically that:

- B.1.a Unbroken custody of the records is maintained:
- B.1.b Security and control procedures are implemented and monitored; and
- B.1.c The content of the record and any required annotations and elements of documentary form remain unchanged after reproduction.

#### REQUIREMENT B.2: Documentation of Reproduction Process and its Effects

The activity of reproduction has been documented, and this documentation includes:

- B.2.a The date of the records' reproduction and the name of the responsible person;
- B.2.b The relationship between the records acquired from the creator and the copies produced by the preserver:
- B.2.c The impact of the reproduction process on their form, content, accessibility and use; and
- B.2.d In those cases where a copy of a record is known not to fully and faithfully reproduce the elements expressing its identity and integrity, such information has been documented by the preserver, and this documentation is readily accessible to the user.

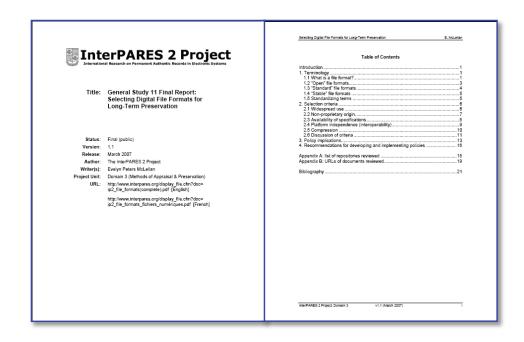
#### REQUIREMENT B.3: Archival Description

The archival description of the fonds containing the electronic records includes—in addition to information about the records' juridical-administrative, provenancial, procedural, and documentary contexts—information about changes the electronic records of the creator have undergone since they were first created.



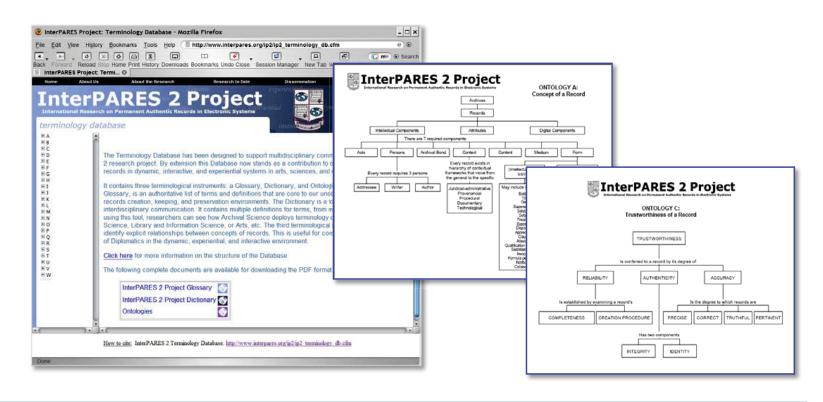
#### **File Format Selection Guidelines**

Principles and criteria for adoption of file formats, wrappers and encoding schemes



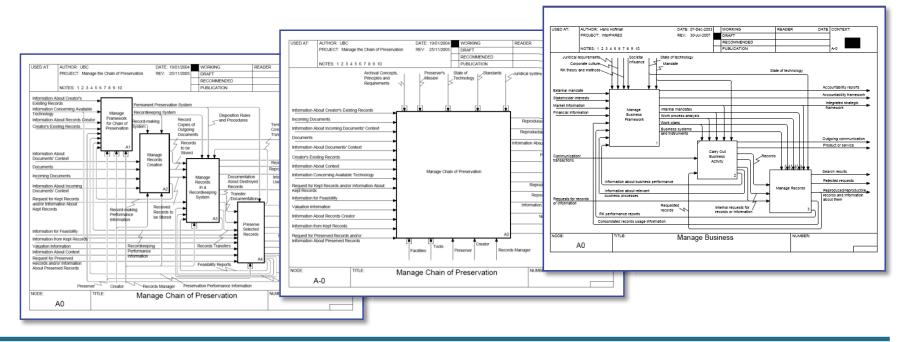
#### **Terminology Database**

Including a glossary, a dictionary and ontologies



#### **Two Records Management Models**

Chain of Preservation (COP) Model (lifecycle)
Business-driven Recordkeeping (BDR) Model
(continuum)



#### Two books:

Luciana Duranti, ed. *The Long-term Preservation of Authentic Electronic Records: Findings of the InterPARES Project* (San Miniato: Archilab, 2005). Available on line at

http://www.interpares.org/book/index.cfm

Luciana Duranti and Randy Preston, eds.

InterPARES 2: Interactive, Dynamic and
Experiential Records (Roma: ANAI, 2008).

Available on line at

http://www.interpares.org/ip2/book.cfm.

# **Most Important Findings**

The traditional **concept of preservation** must include the processes necessary to transmit the record through time, including conversion and migration

The unbroken chain of preservation must begin at creation and continue from the record-making system to the recordkeeping system and the record preservation system

The new emphasis on accountability allows the archives to fulfill these needs by presenting itself as the trusted custodian

### **Archivist as Trusted Custodian**

The trusted custodian is a person who

- acts as a neutral third party, i.e., demonstrates that he/she
  has no stake in the content of the records and no reason to
  alter records under his/her custody, and that he/she will not
  allow anybody to alter the records either accidentally or on
  purpose,
- is equipped with the knowledge and skills necessary to fulfil its responsibilities, which should be acquired through formal education, and
- establishes a trusted preservation system that is capable of ensuring that accurate and authentic copies of the creator's records are acquired and preserved;
- But, mostly...

### The Archivist's New Role

- Positions him/herself at the beginning of the record life-cycle, taking the role of "designated" trusted custodian
- 2. Assesses the **authenticity of the records** and **monitors it** throughout their existence
- 3. Identifies the records to be preserved at the moment of their creation and monitors their transformation through time
- 4. Determines the **feasibility of preservation** on the basis of the archives technological capacity

### The Archivist's New Role (cont.)

- 5. Determines a preservation strategy independently of technological trends (tries to influence the industry through the adoption of standards, but not viceversa) and maintains a focus on interoperability
- 6. Controls the accuracy of the records after each conversion or migration
- 7. Develops procedures that address issues of intellectual rights and privacy
- 8. Recognizes to archival description a primary authentication function

### The Archivist's New Functions (cont.)

- 9. Is constantly **involved in research and development projects** similar to those carried out by the industry, addressing questions like the following:
  - What entity constitutes the record in each dynamic or interactive system
  - If this entity has several instantiations, which can be regarded as the record (manifested or stored entity; if the former, which)
  - How to keep such entities accurate and authentic through time
  - How to enable users to verify such authenticity over time

# Why a Third Phase?

A study of the effectiveness of workshop and seminar experiences for increasing archivists' skills in digital preservation and their ability to implement these skills in their repositories has shown that very few participants were able to implement the skills once they returned to their work environments

Wendy M. Duff, M., Amy Marshall, Carrie Limkilde and Marlene van Ballegooie (2006) "Digital Preservation Education: Educating or Networking?" *The American Archivist* 69(1): 188-212. In the context of ERPANET.

Feedback on the outcomes of the two phases of InterPARES from archivists working in institutions smaller than national archives has consistently shown concern about their downward-scalability and their relevance to small and medium sized organizations

### **Goal of InterPARES 3**

To enable small and low-resources public and private archival organizations and programs (units within records creating organizations)— which are responsible for the digital records resulting from government, business, research, art and entertainment, social and/or community activities—to preserve over the long term authentic records that satisfy the requirements of their stakeholders and society's needs for an adequate record of its past.

## **Expected Products**

- Policies, strategies and procedures for small archival organizations or programs, and guidelines for the records creators whose records fall under their responsibility.
- 2. Action plans for the specific case studies carried out in the course of the Project.
- 3. Criteria to determine "most-at-risk" materials
  e.g., checklist of age (date created, date last accessed),
  physical carrier, operating system, software used,
  equipment required and its availability, etc.

# **Expected Products (cont.)**

- 4. Guidelines for addressing digital preservation requirements that apply to specific types of records, but not to other materials.
- Evaluation models for assessing the degree of success, if any, of the chosen preservation action.
- 6. Cost-benefit models for various types of archival organizations or programs and for various kinds of records and/or systems.
- 7. Ethical models that identify and make explicit the consequences for individuals and society of types of preservation measures or lack thereof.

# **Expected Products (cont.)**

- 8. Training and education modules for preservers, professional associations and university programs; and awareness and education modules for non-archivists, such as IT professionals, vendors and service providers; human resources and financial managers; doctors, communities of practice, members of the general public, etc.; and a strategy for delivering them.
- 9. Position papers directed to key regulating, auditing and policy-making bodies, advocating the vital need of embedding planned digital preservation in the requirements they issue for the activities they regulate, audit or control.

# **3 Primary Components**

#### 1. Research component

(short-term and long-term projects, including case studies related to policy, records or systems, and general studies)

# 2. Education and training component (in the context of research projects, apprenticeships, activities

credited as part of coursework, etc.)

3. Knowledge-mobilization component (workshops, seminars, colloquia, policy manuals and other publications, public lectures, etc., that meet the needs of both academic and community partners)

# **InterPARES 3 Composition**

#### **International Alliance**

15 regional, national & multinational TEAMs:

TEAM (Theoretical Elaboration into Archival Management) Canada (including US); Africa; Brazil; Catalonia; China; Colombia; Italy; Korea; Malaysia; Mexico; Netherlands & Belgium; Norway; Singapore; Turkey; and UK & Ireland

**Director**: Luciana Duranti

**Headquarters**: UBC - SLAIS (facilities provided by UBC)

Summits: Twice a year, each time hosted by a different

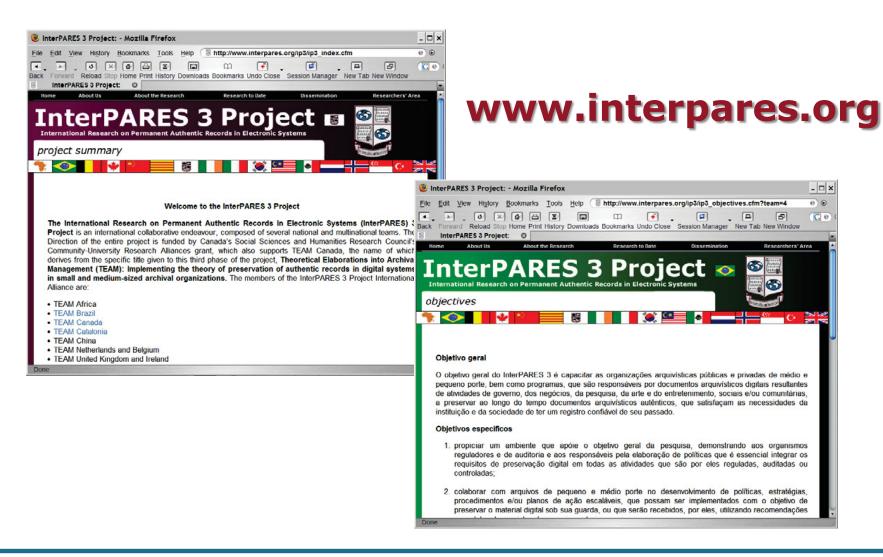
country

Symposia: Once a year, each time hosted by a different

country



### **InterPARES 3 Web Site**



### **Our Ultimate Goal**

- Each archives will become a locus of research by establishing a partnership with academics involved in international research, professionals involved in standards development, experts in law and information technology and, most importantly, with the creators of the records that fall under their jurisdiction.
- Each archival association will promote an environment supportive of the archives goal by demonstrating to regulatory and auditing bodies, and policy makers that they ought to embed digital records preservation requirements (not rules) in any activity that they regulate, audit or control.
- This will result in 1) the generation of new knowledge, 2) the achievement of practical outcomes relevant to local settings, 3) the education of all participants, 4) a sound research and development methodology, and 5) the empowerment of the archives as an instrument of accountability and a point of reference for society at large

# Please, give us feedback on our Preliminary Findings

#### **InterPARES Web Site**

www.interpares.org