



Archivos, Ciudadanía e Interculturalismo

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National Archive of Mexico: Long Term Access

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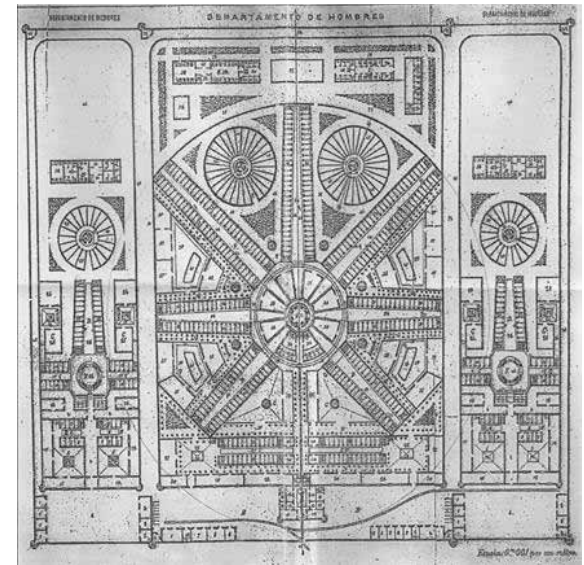
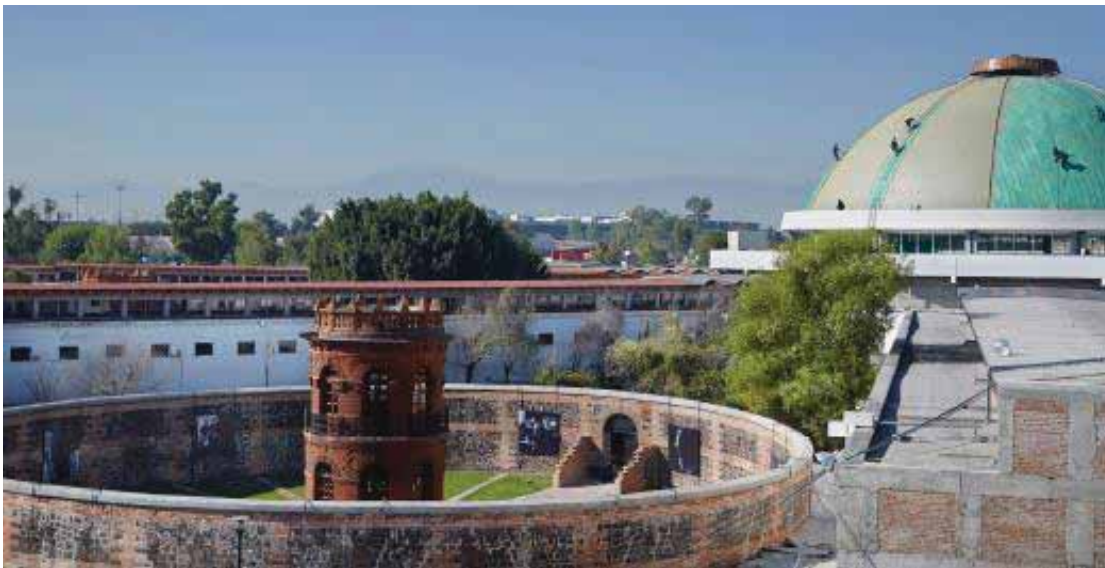
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October 20, 2017

National Archive of Mexico: Long Term Access

The National Archives

Since 1790 the National Archives of Mexico was established as the archive of "New Spain"



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The National Archives



52 Km
(32.3 Miles)



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What we do at National Archives?

- Take care of historical documents from the central government.
- Each year 1.5 millions of documents arrive at AGN.
- Organization, Description, Conservation, Digitization and Publishing.
- Now the challenge are the Electronic Documents.

Problematique



- Conservation of electronic records should be equal to documents in paper at long term.
- Writing, Paper and pigments (ink) relationship without changes from the beginning.
- Electronic records are encoded.
- Programmed obsolescence of digital supports difficult storage and access.



Digital information

Electronic files

- No stable form and content.
- Dynamic Content.
- To export must be transferred to a fixed format to be stable.

Physical documents

- Stable content and fixed form.
- Can be identified the administrative and historical context of the documents.

Digital information

Object Layer

Layer of element

Layer of code

Binary Layer

Phisyc Layer



Digital information

Main Concerns

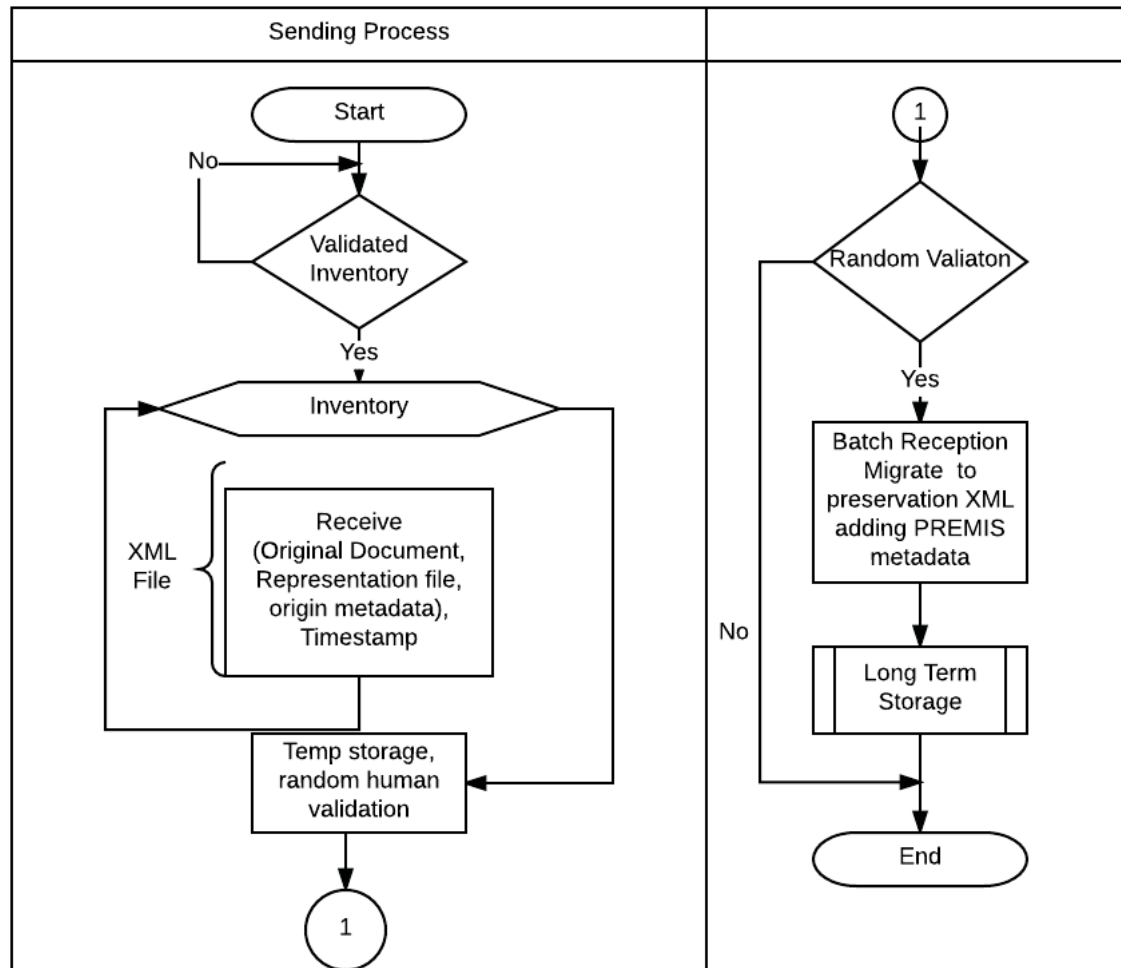
- Traceability
- Dynamic Content
- Integrity & Authenticity
- Chain of custody

Advantages

- Easily reproduce without lose or degradation
- Accessibility
- Easy to check integrity & authenticity*



Sending Process



Data Package

XML Pattern (for institutions transfer)

XML
Header

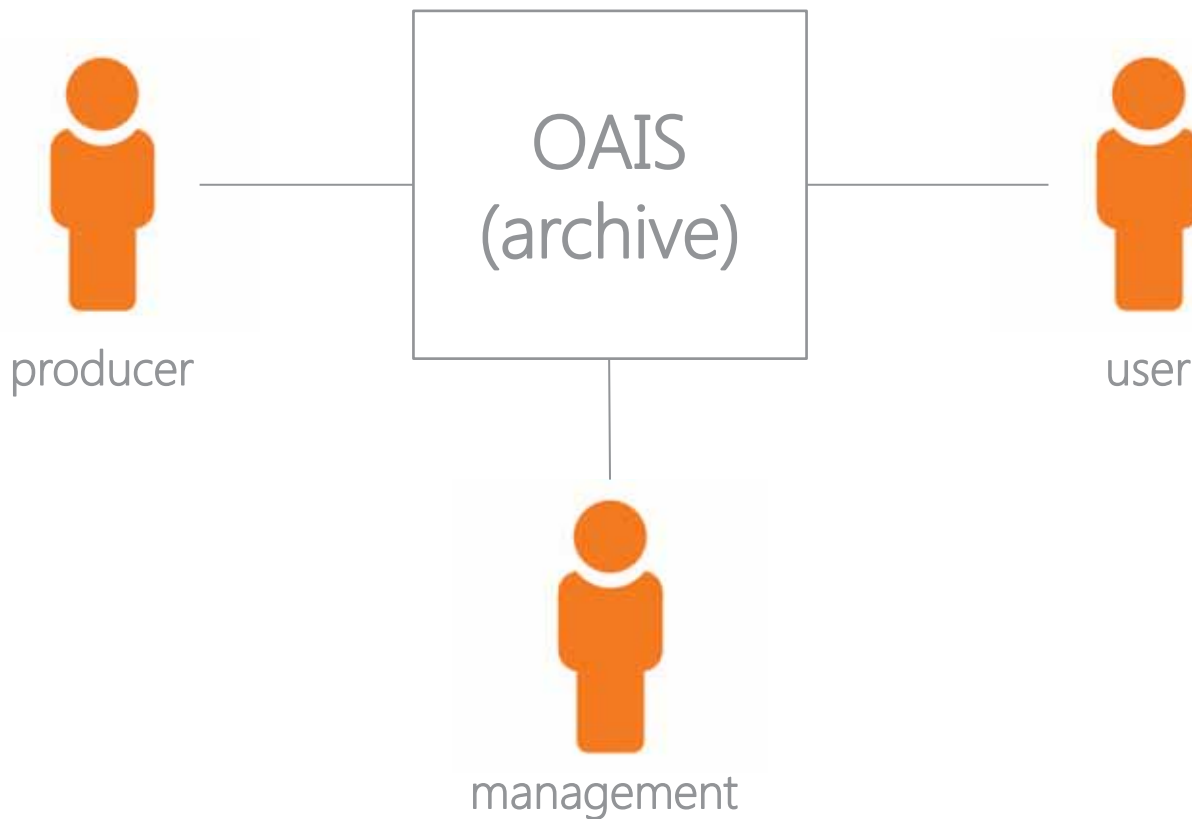
Metadata
form Origin

Original File

Representation

XML
Footer

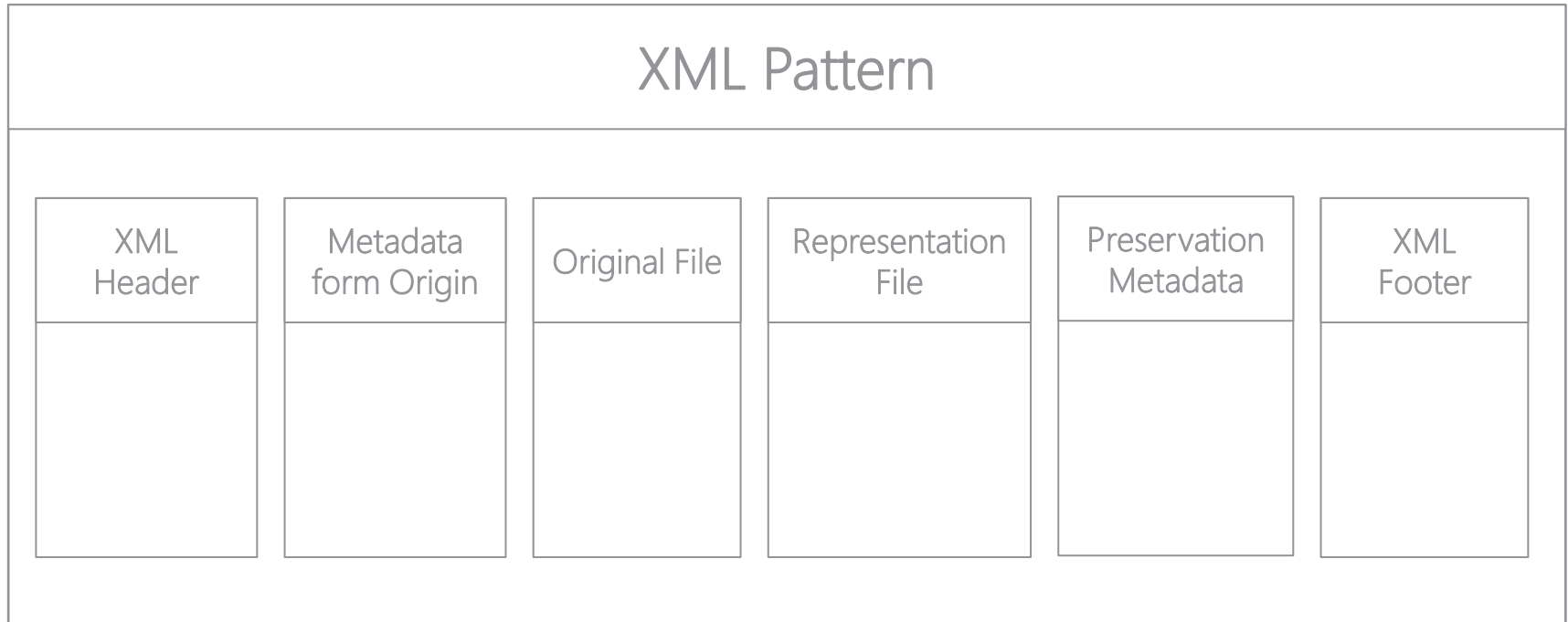




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Data Package

XML Pattern



Premises of electronic records at AGN

More than 30 years for consulting

Economics of Mexico

High cost and risk of storage

Originality



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Archives and information age

Technology

- It's not ready to keep information 100, 200, 300 or more years without migration.
- Not trustable (long term).
- Technology is evolving rapidly.

Other factors

- High cost for storage.
- Migration is more expensive.
- Natural disasters
- Human intervention



Advances in storage

Optical Media to storage information, based in film technology with new advantages in materials

The model to preserve information came from the space investigation, 1960 (OAIS model).

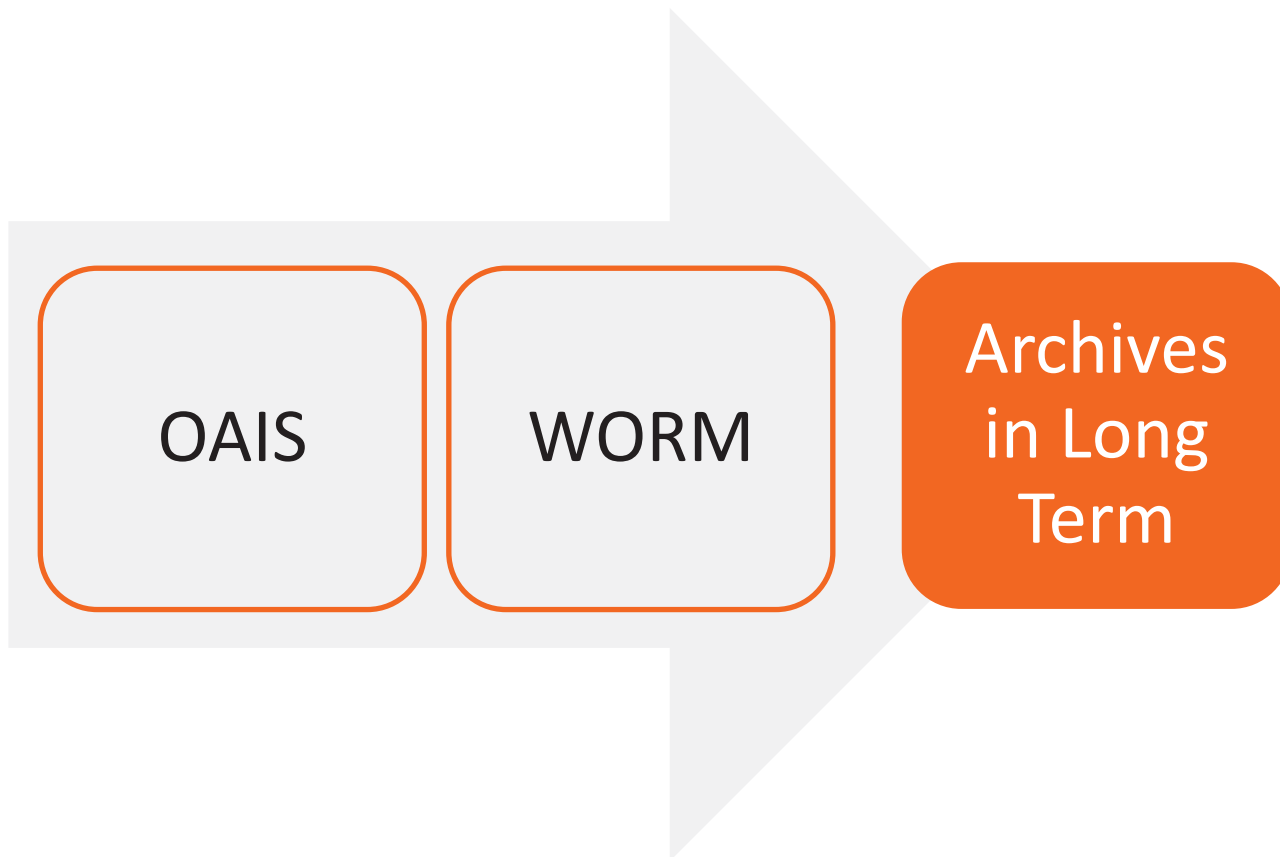
Logic of Visual Media

The ancient records in human kind came from all the things we can retrieve direct with our eyes:

- Codex
- Cave painting
- Papyrus

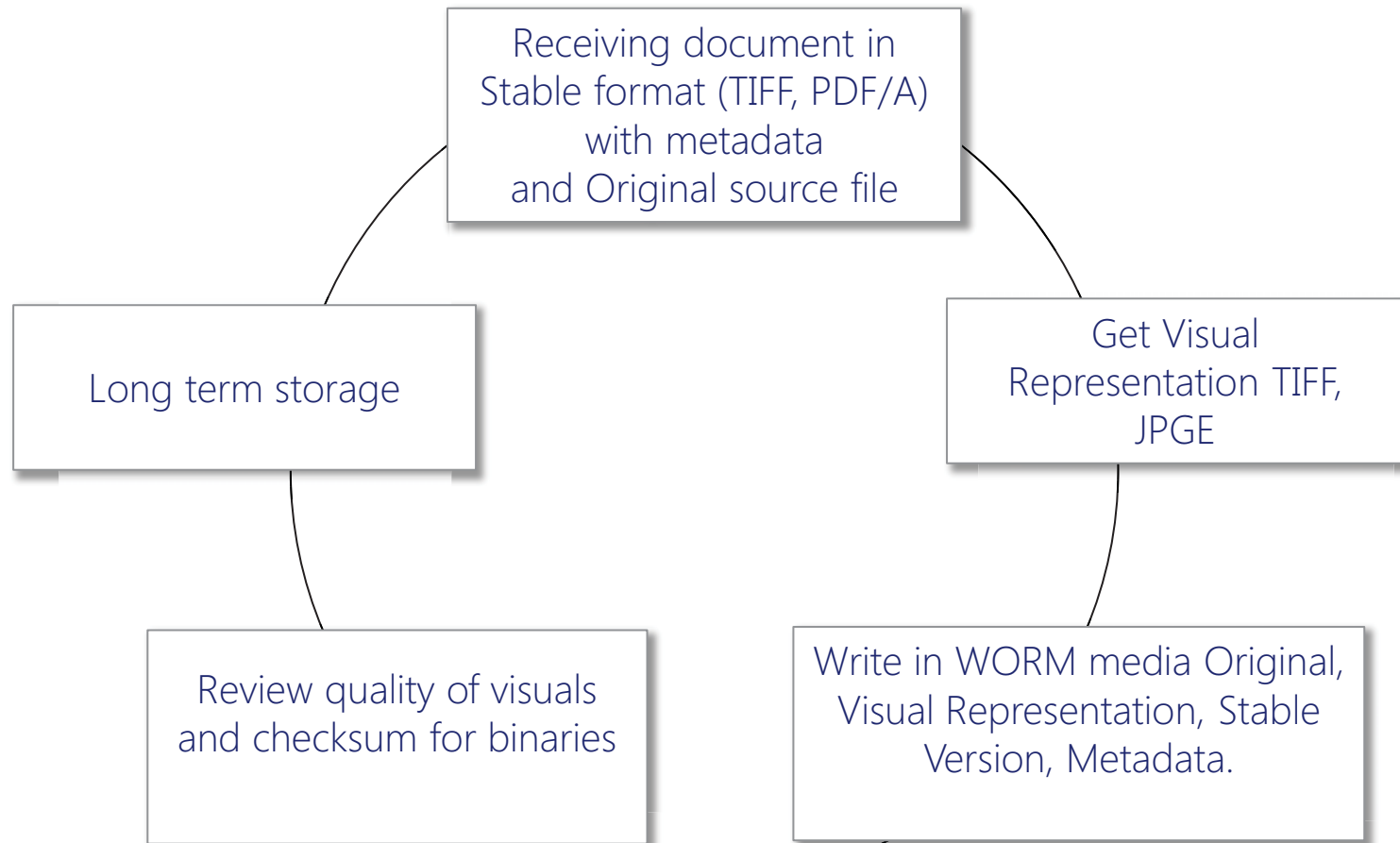


Storage proposal

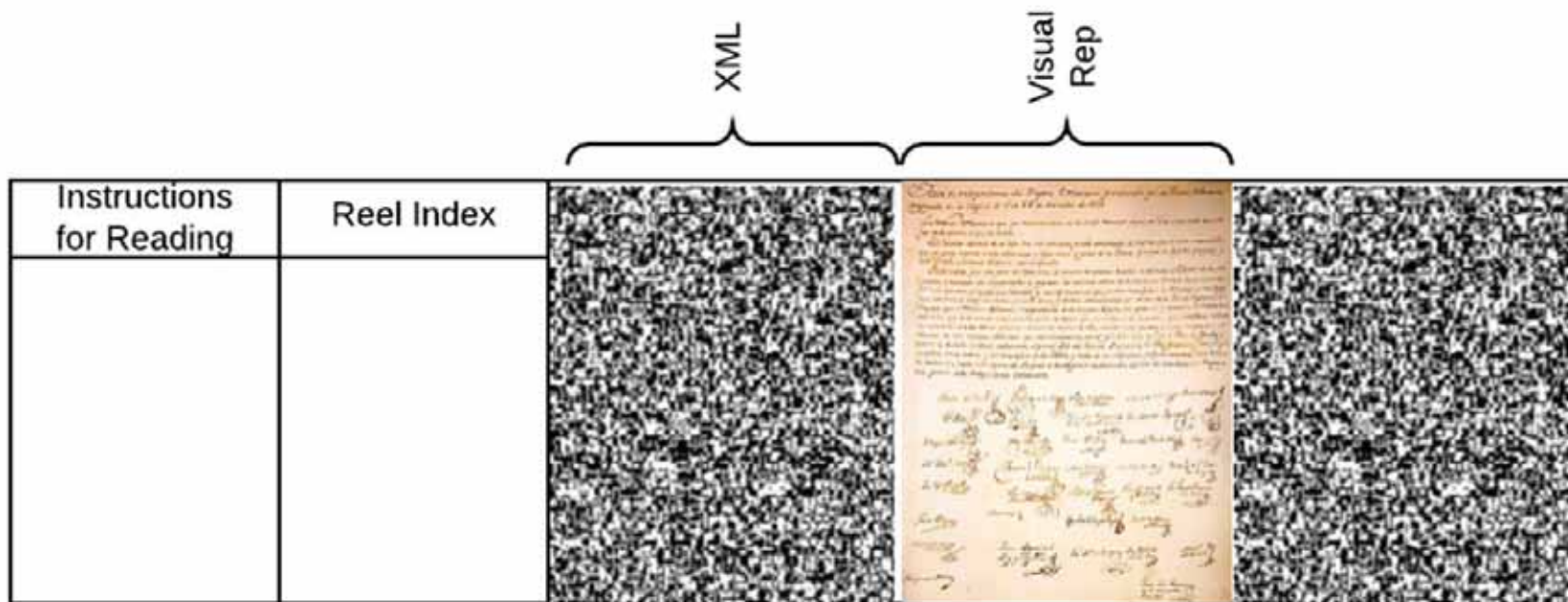


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AGN and Digital Documents



Storage proposal



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Storage proposal



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Arctic World Archive



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Gracias!!!!

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