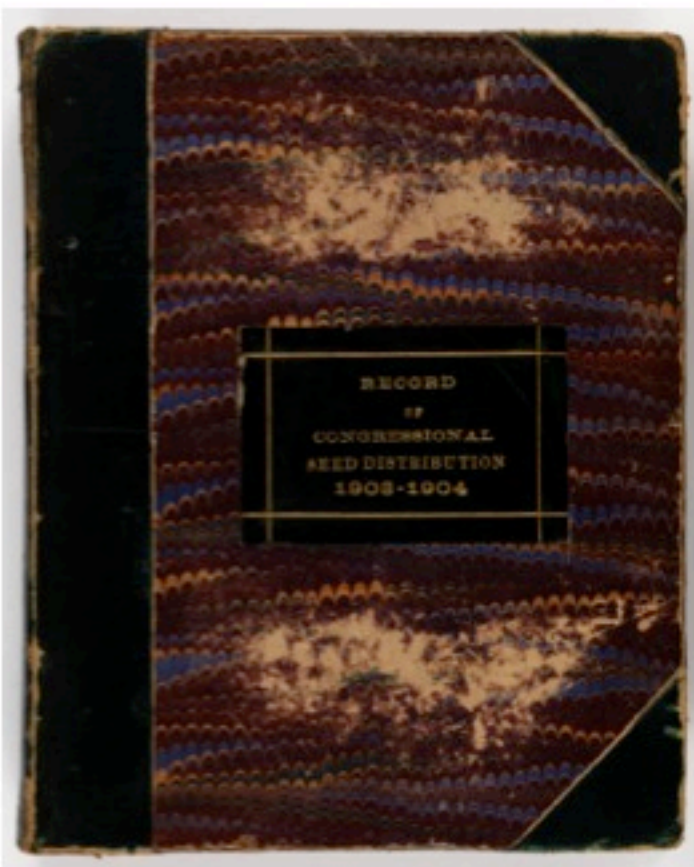




Identifying Requirements for an Electronic Records Processing Environment (aka moving from Waterfall to Agile in a [hopefully] not too painful process)

Leslie Johnston, NARA
2014 Digital Library Federation Forum

Optimized Ingest Framework (OIF)



A new model for managing electronic records for preservation and access

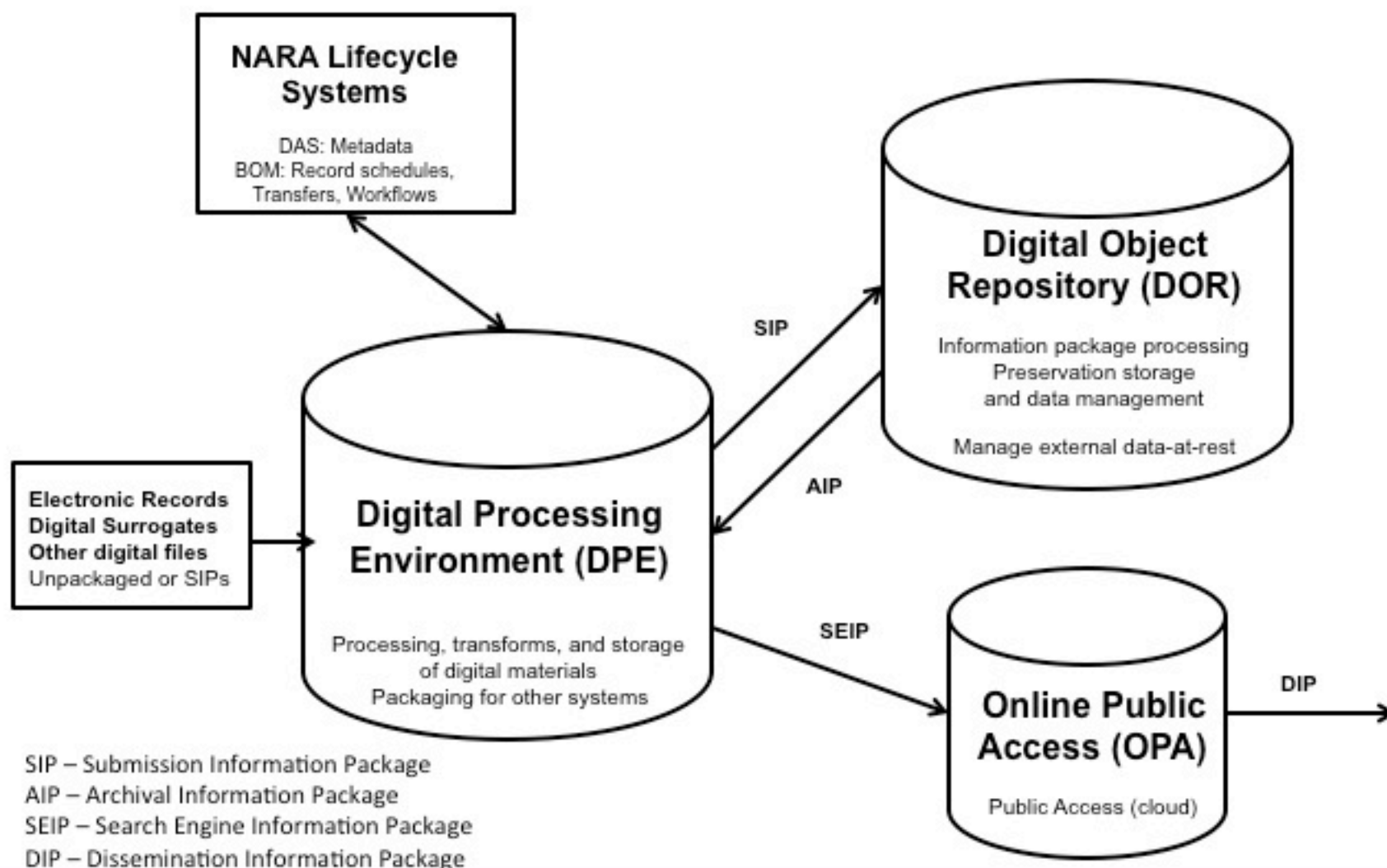
- Modular approach to NARA systems managing digital materials
- Departure from model of a single, monolithic system to manage the ingest, processing, preservation, and access to electronic records.
- Sustainable approach for necessary evolution of existing systems.
- Establishment of an environment to provide necessary processing flexibility and tools for a wide variety of digital files and metadata.
- More robust solution for digital preservation with reduced complexity.
- A stepping stone toward greater automation in managing digital files.

Optimized Ingest Framework (OIF)



Concepts developed in a series of 2013-2014 meetings:

- Need for a flexible processing environment with an expandable set of software tools to verify and process electronic records.
- Requirement to manage increasing volume and varieties of digital files.
- No current workflows for non-Federal digital materials (e.g., digital surrogate masters, Legislative, Donated, Supreme Court, etc.).
- Growing storage and access needs for digital surrogates.
- Need for a more efficient means to provide public access to ingested electronic records from agencies.
- Need to explore & develop capabilities and processes to address projected growth – Presidential Directive implications, Data-at-Rest solutions.





**So Far This Looks Pretty Much
like Every Other Project...**

But it won't be like other projects at
NARA

This will be the first fully Agile project
for the organization.

And the first to be implemented for
a cloud/on premise hybrid production
environment.

Opportunities to Pilot a New Preservation Architecture



- Quickly test and refine assumptions made in the redefinition of processing workflows and selection of tools for processing.
- Develop data packaging specifications and APIs for the exchange of metadata and files between multiple systems.
- Design for both a cloud (unclassified) and on premise (classified) environment.
- Test the use of a range of file processing tools for both a cloud and on premise environment for processor, memory, and storage needs.
- Benchmark network transfers between on premise and cloud environments and between cloud environments.

Opportunities for the Organization



- Introduce the IT organization, business owners, and agency management to the Agile methodology.
- Demonstrate how requirements, risks, and tasks documented in a Waterfall style can be re-purposed for Agile processes.
- Introduce new processes and communication styles and tools and staff roles – which cannot help but cause some anxiety.
- Improve the efficiency of electronic records ingest and make records available to the public for use more quickly.

Let's Discuss...

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