Looking Ahead

AtoM's Governance, Development, and Future

Title and statement of responsibility area.

Title proper Miscellaneous records Level of description Series

Archival Institution

City of Vancouver Archives

Townley, Matheson and

Partners

Digital object



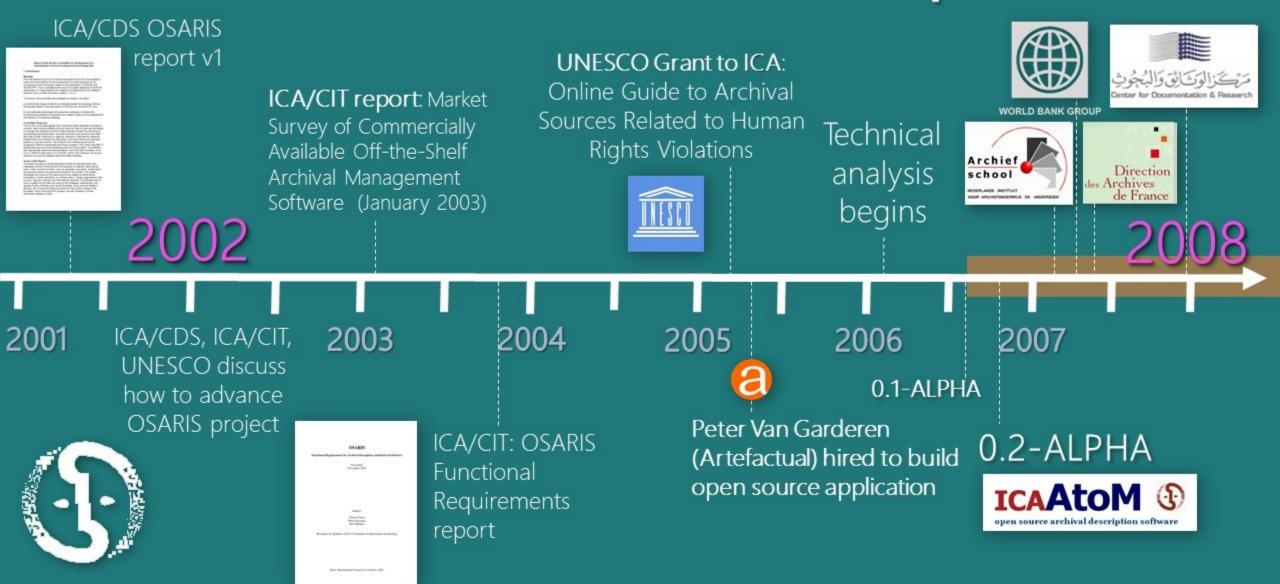
Archival description area		Fonds	
Name of creator	Townley, Matheson and Partners	 ✓ Show all ▼ Fonds Add. MSS. 1399 - To 	
	Series consists of miscellaneous materials created or recieved by Townley, Matheson and Partners, including		
	contract agreements and material and labour specifications used to articulate project requirements to clients and	 Series Architectural drawing 	
	contractors, architectural >	 Series Project photographs 	
Notes area		Series Miscellaneous record	
	No original arrangement of the records was apparent.	Import	
	Series has been arranged into files by the archivist based	• XML	
	on the documentary form and content of the records. The	 CSV 	
	12 drawings in this series have been arranged and described as discrete items and are =	Export	
Control area		Oublin Core 1.1 XML	
Description record Identifier	152724	· EAD 2002 XML	
Dates of creation, Created: 29 Apr 2004. revision and deletion			
Accession area			
	2012-09-04/1		

(Creation)

First, we look back...

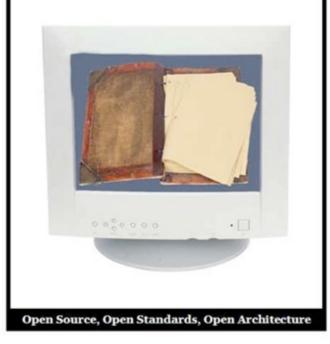
	2012-09-04/1					
Edit	Delete	Add new	Duplicate	Move		
Link digital object		Import d	igital objects	Link physical storage		

@AtoM's Development



2005: Open Archives System

OpenArchivesSystem





OpenArchivesSystem: Project Plan (v.1 -- Dec. 9, 2005)

Archival Description	Access	Physical Control	Accessioning		
 multi-level cataloging archival authority control controlled vocabularies finding aid publishing 	 * search and browse * digital object retrieval * OAI-PMH harvesting * exhibits * research room management * researcher files * reproduction requests 	 box management conservation scheduling digital repository interfaces digital preservation monitoring digital file integrity utilities digital file migration utilities 	 * appraisal records * disposition scheduling * record transfer documentation * deed of gift documentation * accession registry * digitization of analogue materials * capture of digital objects 		
System Administration					

The original project vision submitted by Peter Van Garderen, December 9, 2005

ICA-AtoM 1.0-beta



- Released at the 2008 ICA Congress in Kuala Lumpur, July 21-27
- Distributed as a demo CD
- Workshop and presentation given



ICA-AtoM's first use ...



Human Rights Violations: An International Guide to Archival Sources

español | français | >>

help | contact us | log in



military regime search

search for 'military regime' resulted in 4 hits

Impunity fonds

Testimonies, interviews and information gathered by SERPAJ to document the human rights violations incurred by the military regime.

El Popular photograph collection Photographs from the El Popular newspaper.

Papers of the International Military Tribunal

Official transcripts of court proceedings, summaries of interrogations, and document books containing compilations and translations of the evidence.

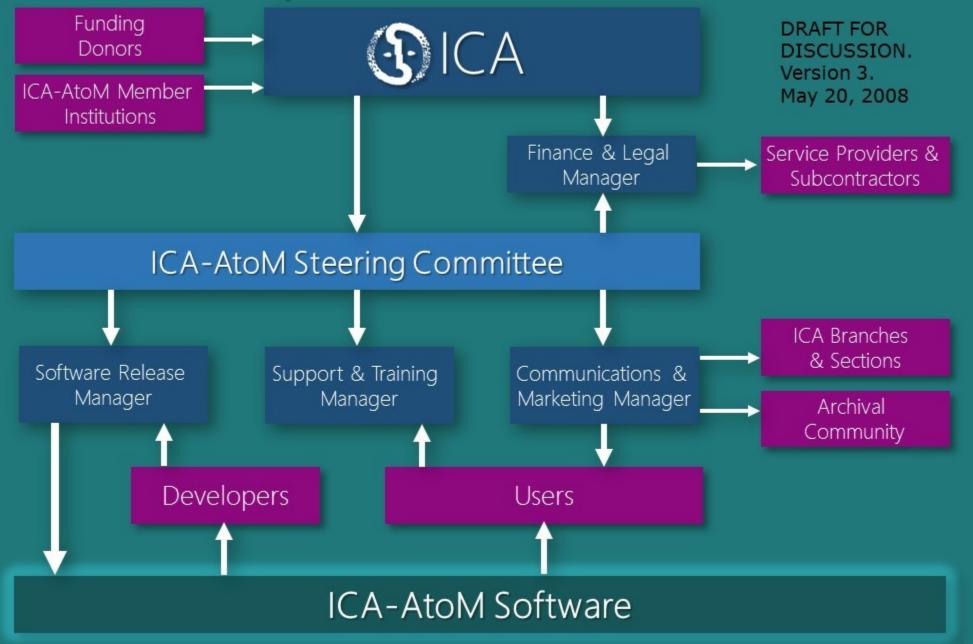
National Commission Pro Referendum fonds Correspondence, project files, presentations.

ICAAtoMProject Goals

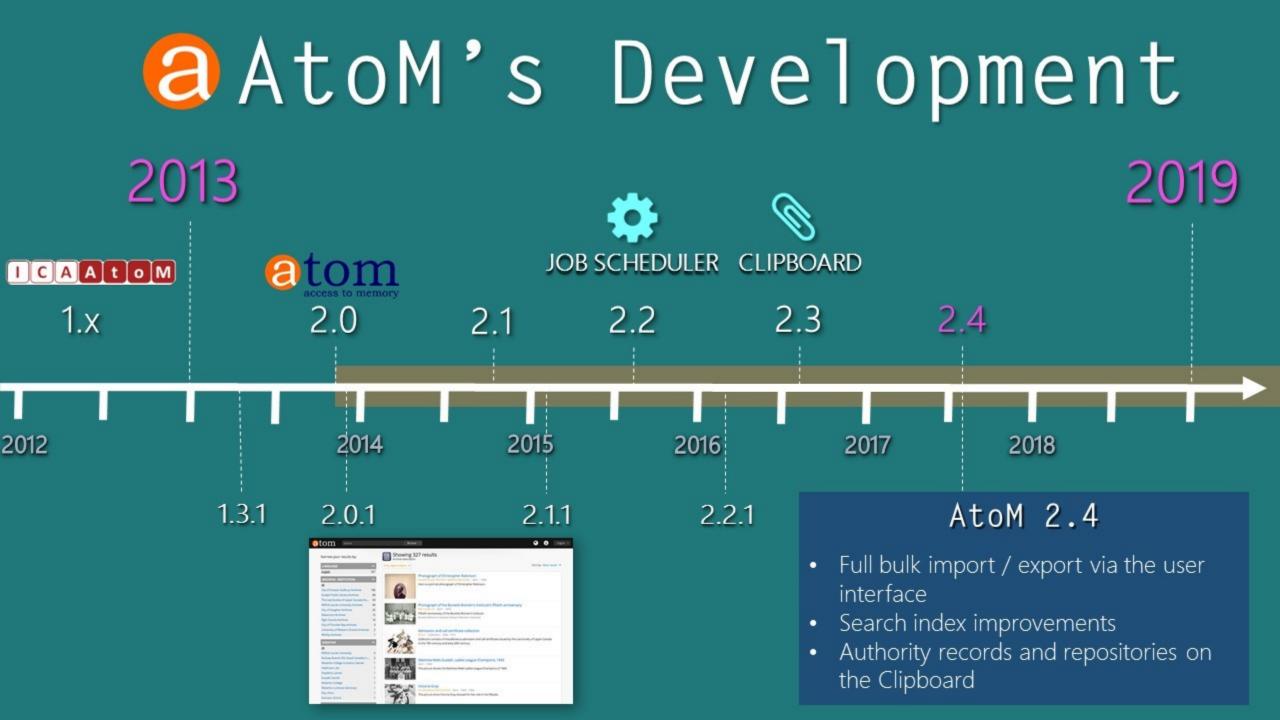
The purpose of the ICA-AtoM Project is to provide free and open-source software:

- that enables institutions to make their archival holdings available online, especially those who could not otherwise afford to do so
- that manages archival descriptions in accord with ICA standards
- that provides multi-lingual interfaces and content translation features
- that supports multiple collection types
- that is fully web-based, user-friendly and follows accessibility best practices
- that is flexible and customizable
- that is useful to both small and large institutions alike
- that supports single or multi-repository implementations

ICA-AtoM Proposed Governance Model



@AtoM's Development 2014 Kuala Lumpur 2008 ICA.org Groups Kuala Lumpur 2008 FIRST 21 - 27 July 2008 ICA NON-BETA on Archives RELEASE ICAAtoM 0.X-BETA 1.0-BETA 1.2 1.3 1.1 2.0 2009 2010 2011 2012 2013 Qubit TRILLIUM THEME open information management toolkit 5 ICAAtoM open source archival description software intent (met)



② Development Philosophy

Community-based development

- Standards-based
- Open source / Creative Commons
- Multilingual support
- Generalize specific use cases
- Include all features in public release
- Iterative development via multiple contributions over subsequent releases



Bounty model of business

- Maintain: documentation, software, wiki, etc.
- Produce additional resources (e.g. videos, presentations, webinars)
- Participate in user forum
- Offer additional paid services
- Always include development in public project

artefactual

Read more: https://wiki.accesstomemory.org/Development/Philosophy

Now we look around...



Funding agencies

Standards organizations

Users

Private

companies

Leading implementers Non-profit organizations

Developers

https://pixabay.com/en/audience-crowd-people-persons-828584/

Standards organizations

How does the creation or modification of standards relate to the development of open-source tools? Should standards be created with software development in mind?

Funding Agencies

Funding agencies play a key role in open-source software development, but what is their role once the tools have been developed?

Developers

Leading implementers

Developers work for non-profit organizations or private companies. They may also work for leading implementers, or simply be technically-minded users.

Leading implementers are institutions that provide community support, funding and/or development. These tend to be universities and research institutions.

Users

Having a large pool of users is a sign of software maturity and stability.

Non-profit organizations

Private companies

These organizations provide sustainability for mature opensource software tools by offering software development and release management, hosting, tech support, data migration, training, consulting, documentation, user forums and other critical services. However, finding a viable business model can be a challenge.

xabay.com/en/audience-crowd-people-persons-828584/

Open-source Business Models

When grant funding ends or doesn't cover all costs, there are different ways of making open-source software viable and self-sustaining. Here are three common models:

- Membership model
- Bounty development model
- Services model

Membership Model

The software is free and open-source but purchase of a membership allows users to gain access to certain privileges or services. Some membership models mean that only members get access to certain types of documentation, training materials, issue reporting systems and/or member-only user forums. Other membership models provide privileges such as a role in governance, discounts on training and meeting events, but don't restrict documentation etc. Examples:

- Lyrasis (ArchivesSpace, CollectionSpace)
- BitCurator Consortium
- **DuraSpace** (DSpace, Archivematica, DuraCloud, Fedora)
- Islandora Foundation
- Open Preservation Foundation (JHOVE, Jpylyzer, FIDO, xcorrSound)

The money raised is used to support continued development and software release management.

Bounty Development Model

The software is free and open-source but development of new features and enhancements depends on one or more institutions providing funding. The new features and enhancements are added to subsequent public releases of the software. Sometimes called "Professional Open Source." Examples:

- Artefactual Systems (Archivematica, AtoM)
- Data Curation Experts (Hydra, Blacklight, Fedora)
- DiscoveryGarden (Islandora)
- Hudson Molonglo (ArchivesSpace)

Services Model

The software is free and open-source, but there are organizations that provide related services such as hosting, technical support, data migration, consulting, training and customization. These organizations may or may not be the lead developers of the tools. Examples:

- Artefactual Systems (Archivematica, AtoM)
- DuraSpace (DSpace, Archivematica, DuraCloud, Fedora)
- DiscoveryGarden (Islandora)
- Cottage Labs (Hydra, Fedora)
- AVPreserve (Archival Management System, Exactly, Fixity + other tools)
- **KEEP Solutions** (RODA, DSpace + other tools)

Other Open-source models

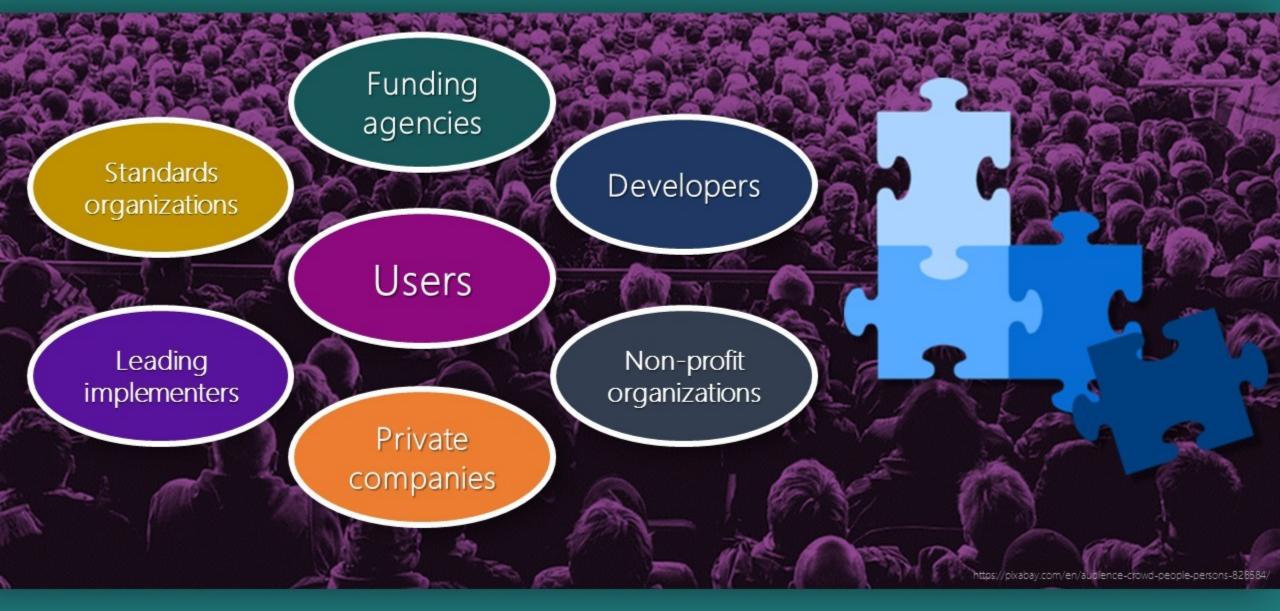
Franchising model:

The software is free and open-source, but the name and logo(s) are proprietary and can only be used with permission. The owners of the name and logo(s) sell the rights to organizations to provide technical support, hosting and customization services.

Proprietary add-on / "freemium" model:

The software is free and open-source, but organizations develop proprietary add-ons or plugins or have "enterprise" or "professional" versions that add more functionality or scalability.

Where Do You Fit In?



Looking ahead...

METADATA IS A LOVE NOTE TO THE FUTURE

 \mathbf{O}

Non-backwards compatible changes in dependencies...



• PHP Framework

• Version used in AtoM 1.4 (deprecated in 2012)

• Current Symfony version: 3.3

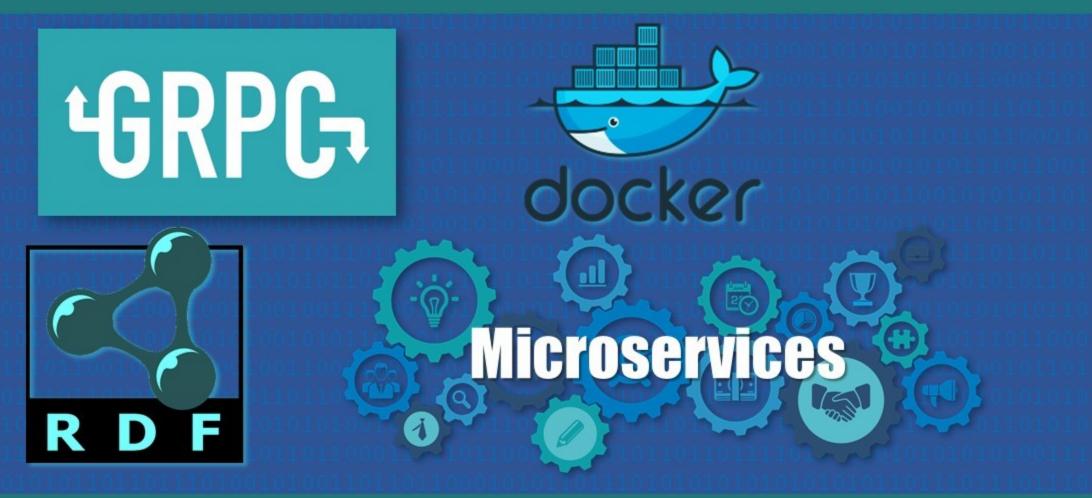
elasticsearch

• Search index

• Version used in AtoM 1.7 (deprecated in Jan 2017)

• Current ES version: 5.3

Newer Technologies and Development Philosophies...



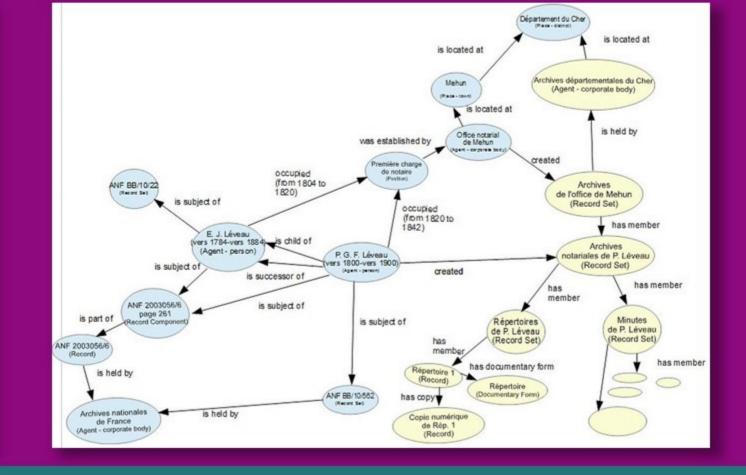
And Major Changes Coming in our International Standards...

INTERNATIONAL COUNCIL ON ARCHIVES CONSEIL INTERNATIONAL DES ARCHIVES EXPERTS GROUP ON ARCHIVAL DESCRIPTION



RECORDS IN CONTEXTS A CONCEPTUAL MODEL FOR ARCHIVAL DESCRIPTION

> Consultation Draft v0.1 September 2016



Comments are welcome at egad@ica.org

Provide an opportunity

for AtoM's evolution

Nebula - NGC6960" by Ken Crawford - https://en.wikipedia.org/wiki/Vei_Nebula#/media/File.Vei_Nebula_-_NGC6960.jpg

AURA AtoM Upgrade/Rewrite Analysis



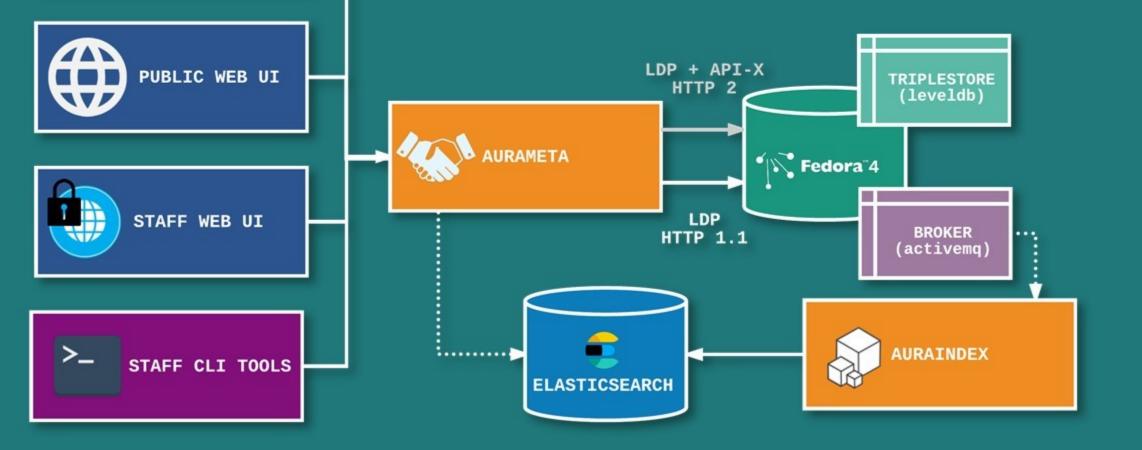
Artefactual's internal task force to begin considering possible technologies and development patterns for a nextgeneration version of AtoM.

- Highlight biggest current bottlenecks
- Research emerging technologies and standards
- Develop proposed models for implementation
- Consider upgrade paths
- Begin researching funding and community support options

AURA AtoM Upgrade/Rewrite Analysis

IMPORT CLI

Initial architecture proposal for discussion, July 28, 2016



AURA AtoM Upgrade/Rewrite Analysis

Initial design goals:

- Use well-supported, stable open-source technologies
- Modular not monolithic
- Support linked data
- Separate front and back-end
- Scale to hundreds of millions of records
- Build permissions, accessibility, and internationalization in from the start
- Full multi-repository support
- Address the challenge of federation (contributing to portals, etc)





We can't do this without you.

alssues to consider:

- How should we **fund** the project?
- How should we **govern** the project?
- How should we **build** the project?





info@artefactual.com

