From MARC to Bibframe in a Global Ecosystem

BIBFRAME Workshop in Europe
20th Sep, 2023

Adina Marciano and Xiaoli Li

Agenda

- Ex Libris and Bibframe
- Hear from the community
- Focus group for production
- Integration with Sinopia
- Challenges and solutions
- Looking to the future

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What Are the Benefits of Linked Open Data?

Efficient Cataloging

Better Discoverability

Global Interoperability

Community

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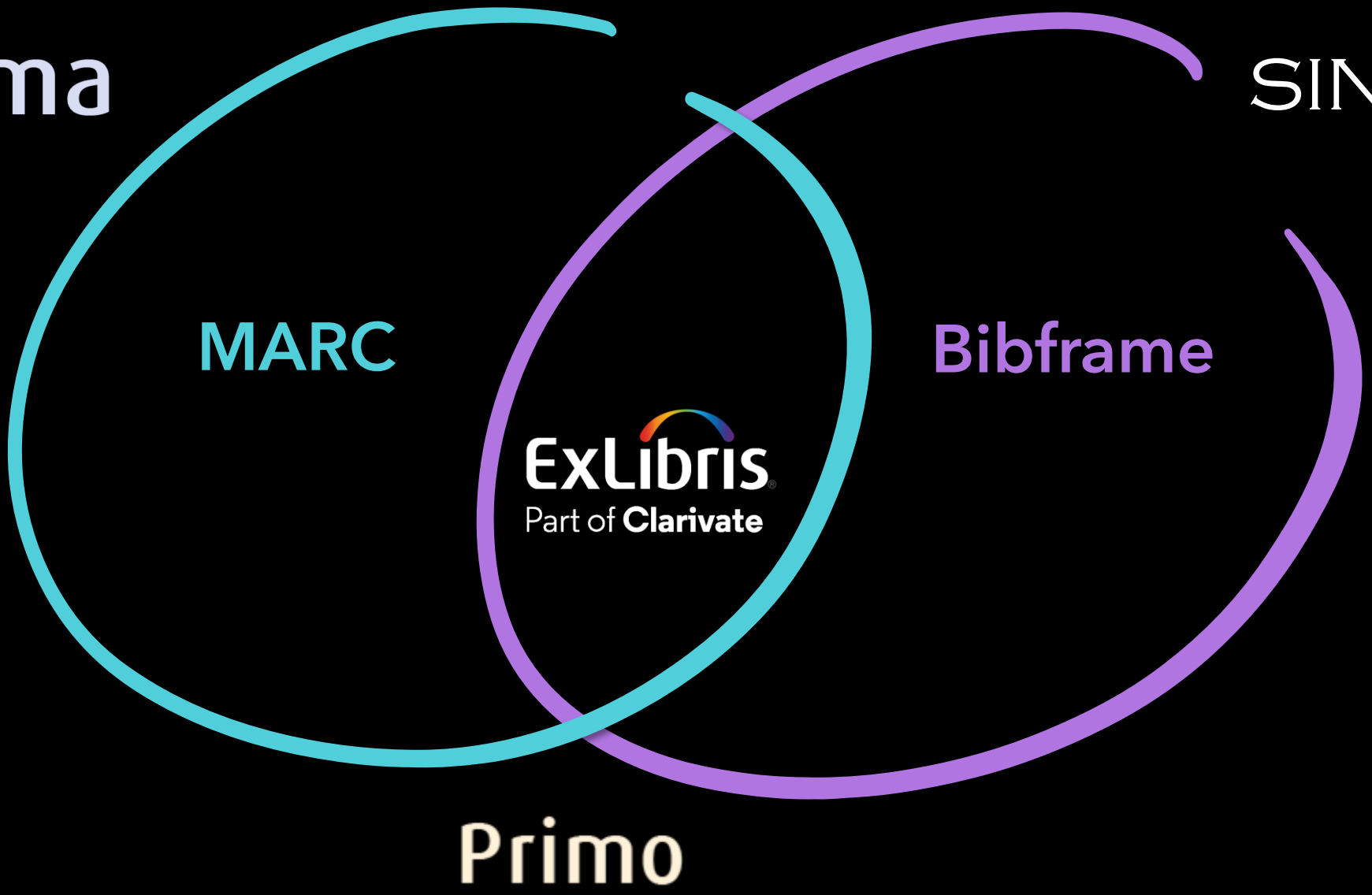
Efficient Cataloging – Supporting the Linked Open Data Journey



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Welcome to the Next Discovery Experience

Search for Works, Persons, Subjects or Publications

Library Catalog

Search anything

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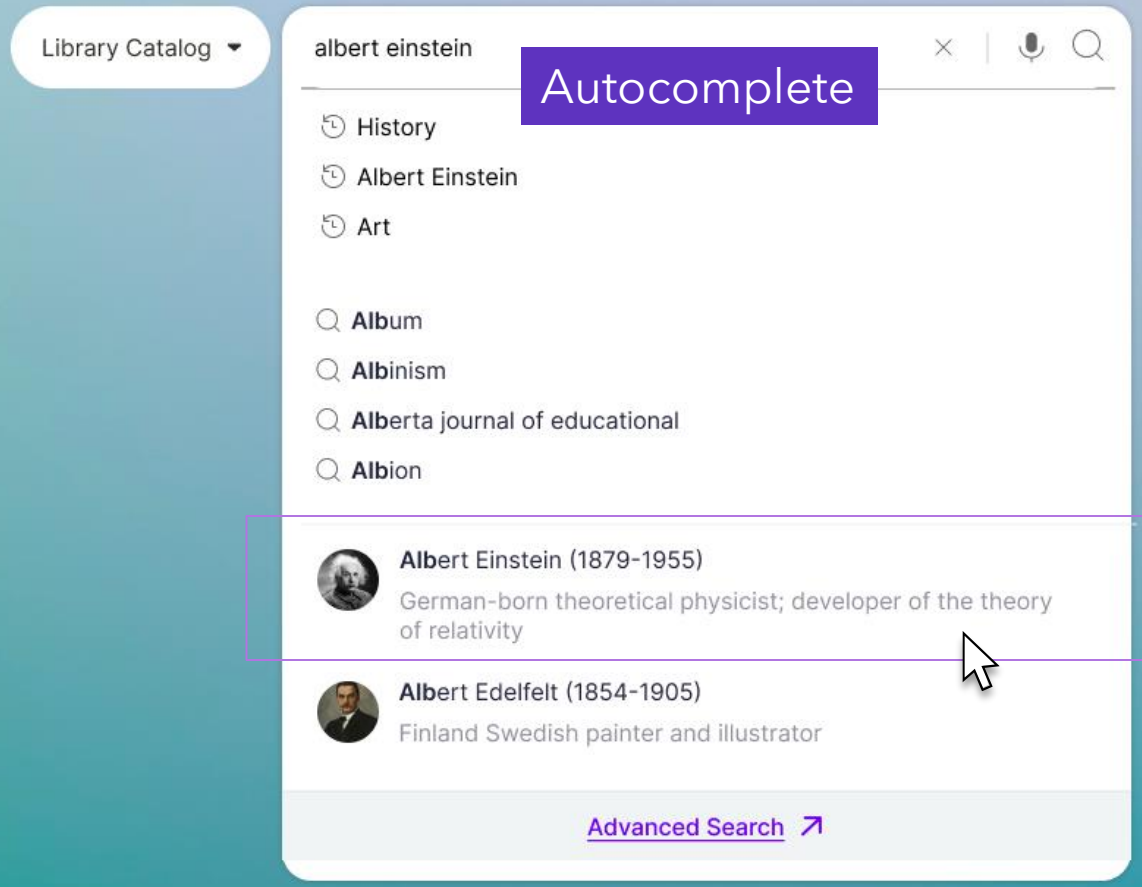
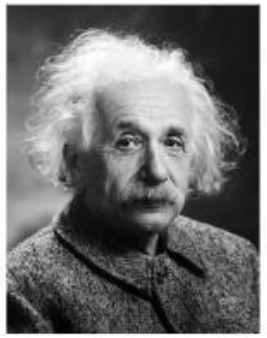


Search
Saved Items
Advanced Search
Journals Search
Collections

Person Information



Albert Einstein | 1879–1955

German-born theoretical physicist; developer of the theory of relativity

Albert Einstein was a German-born theoretical physicist, widely acknowledged to be one of the greatest physicists of all time. Einstein is known for developing the theory of relativity, but he also made important contributions to the development of the theory of quantum mechanics. Relativity and quantum mechanics are together the two pillars of modern physics. His mass–energy equivalence formula E = mc2, which arises from relativity theory, has been dubbed "the world's most famous equation". His work is also known for its influence on the philosophy of science. He received the 1921 Nobel Prize in Physics "for his services to theoretical physics, and especially for his discovery of the law of the photoelectric effect", a pivotal step in the development of quantum theory. His intellectual achievements and originality resulted in "Einstein" becoming synonymous with "genius".

Born	March 14, 1879, Ulm, Germany
Died	April 18, 1955, Princeton, New Jersey, United States
Employer	University of Bern, Swiss Federal Institute of Intellectual Property, University of Zurich, German University in Prague, ETH Zürich, Kaiser Wilhelm Society, Princeton University
Occupation	theoretical physicist, philosopher of science, inventor, science writer, pedagogue
Field of work	theoretical physics

Titles written by Albert Einstein

Relativity : the Special & the General Theory

Albert Einstein 1879-1955; Hanoch Gutfreund; Jürgen

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Library Catalog | Search anything

Person/Title Relationships

Person Information

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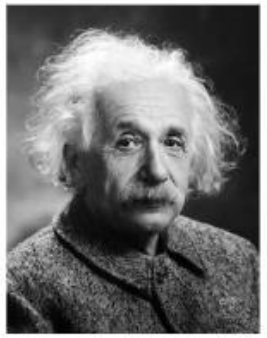

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Ex Libris Supporting Interoperability

- Publishing
  - Converting MARC to Bibframe and Bibframe to MARC
  - Exporting as Bibframe

- New APIs supporting Bibframe work and instance
  - Integration with Sinopia

With more to come…

Ex Libris Working With the Linked Open Data (LOD) User Community

Working Together

Working groups supporting the LOD development

- Meetings
- Finding best practises
- Soliciting use cases and ideas from the community

Following development

- Providing Feedback
- Maintaining a dashboard tracking features

Promoting LOD features

- Community meetings
- Listserv

Bibframe end-to-end workflow

Supporting BIBFRAME in production in Alma

Working *with* the community, *for* the community

Linked Data Focus Group

UC DAVIS

Penn
University of Pennsylvania

EMORY UNIVERSITY

Newcastle University

Northwestern University

MEMORIAL UNIVERSITY

USDA National Agricultural Library
U.S. DEPARTMENT OF AGRICULTURE

MIAMI

UNIVERSITY OF LEEDS

Princeton

Harvard

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SINOPIA

Cataloging

Easy data access to and from other systems

ExLibris Alma

Fulfillment | Acquisition | Inventory | Publishing

Management

Analytics

Other Discovery Systems

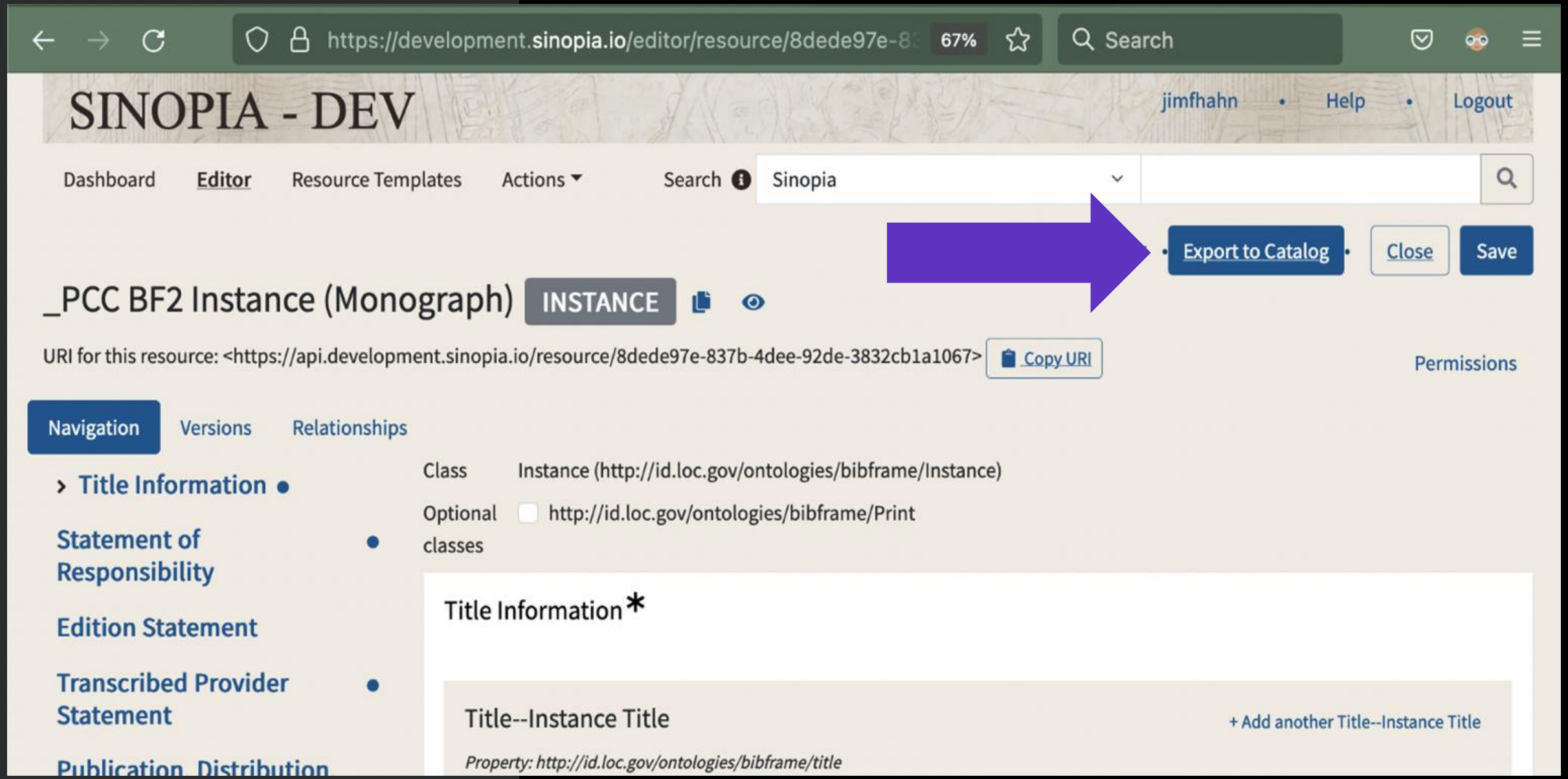
ExLibris Primo

Discovery

Goal

End-to-End Workflow

Sinopia Integration



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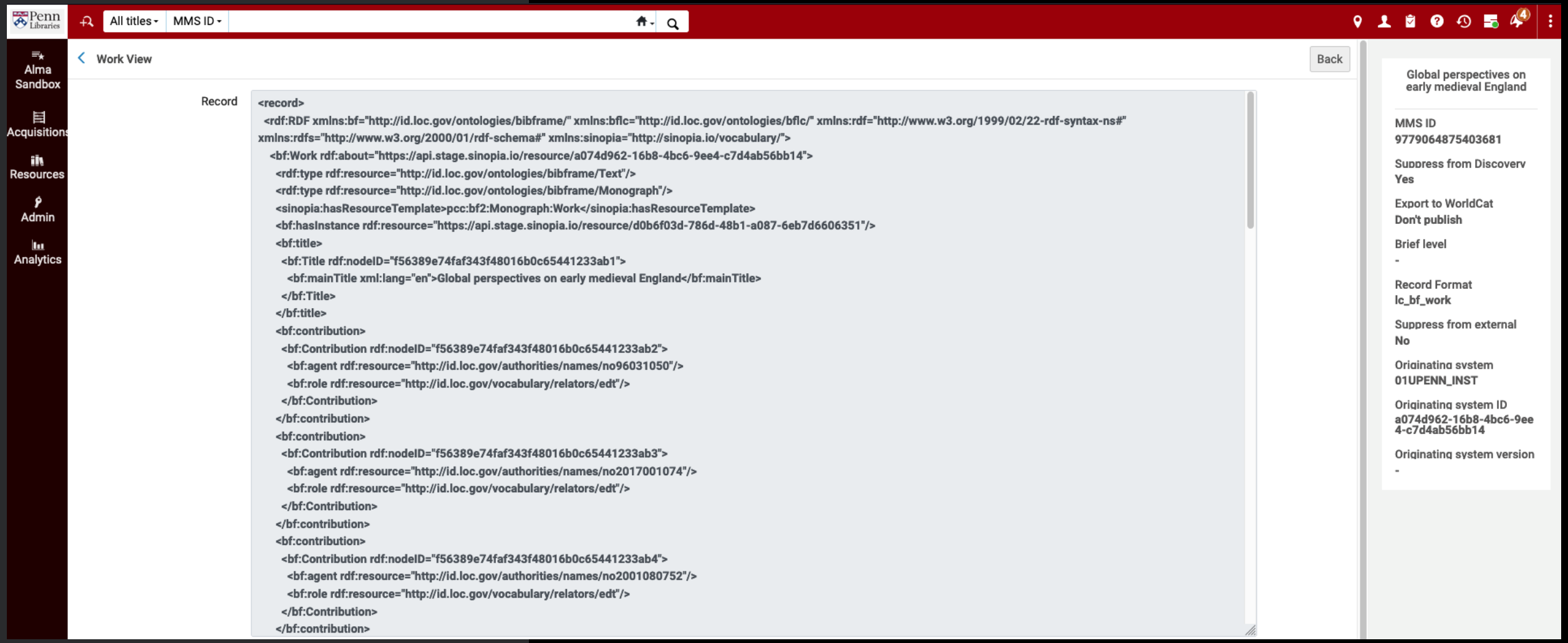
Sinopia Integration



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Sinopia to Alma Data Flow in ILS-Middleware

Quality Check	Assure Work and Instance RDF are linked
Normalize	Normalize the Sinopia RDF for Alma input
Post Work	Or update Work
Post Instance	Or update Instance

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Challenges and Solutions

Large Scale API calls

- Can Linked Open Data systems truly support large-scale vendor API requests?
- Caching system vs. “pure” linked open data systems
- The importance of the labels for end-user convenience (reducing API calls)

Consistent & persistent URIs

- Institution URI vs. Vendor URI, making them configurable
- Collaborative cataloging – Do we create multiple URIs per institution

Blank node vs. URI minting service

- What to do with entities or terms without an authoritative URI from a communal cataloging source?

Future Challenges

- Libraries are first and foremost focused on supplying their local patrons with what they need
- Linked open data still needs to support uniqueness and the use of local fields

“History does not repeat itself, but it rhymes.”
(Mark Twain)

Summary

We support catalogs with multi formats including Bibframe

We work with the community toward a linked future

We are creating solutions that fit the wide-scale long-term requirements

There are many challenges ahead, and we will face them together

Linked Open Data: The Missing Link in the Library Evolution

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Thank You

adina.marciano@clarivate.com

xlli@ucdavis.edu

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