Update on Linked Open Data

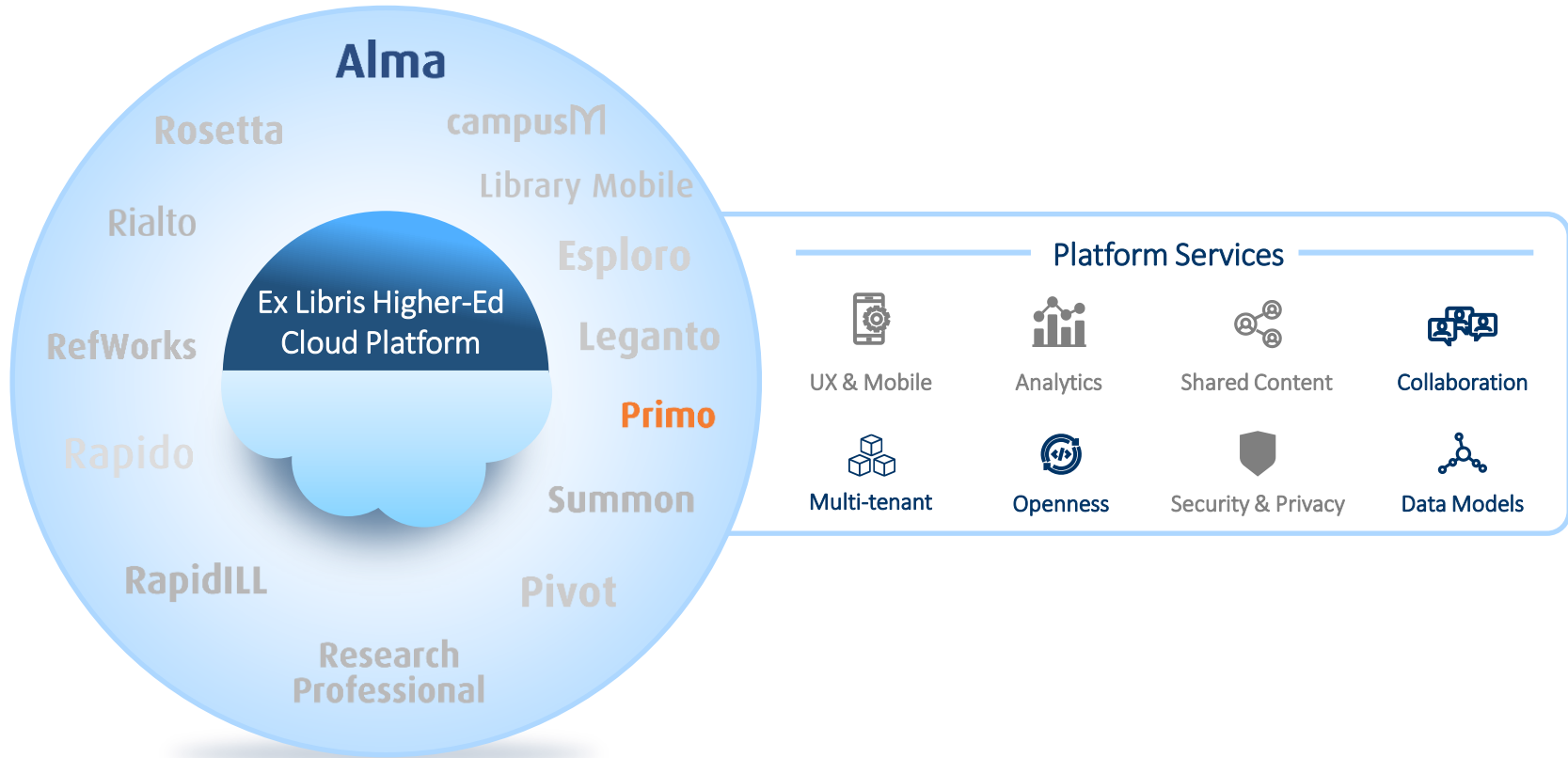Itai Veltzman – Director, Product Management

Agenda

- Overview
- Development During 2022
- Roadmap for 2023 and Beyond
  - MARC Enrichment
  - End to End Workflow
  - Knowledge Graph
- Collaboration with the Community

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Ex Libris Higher-Ed Cloud Platform

Alma

Rosetta

campusM

Library Mobile

Rialto

Esploro

Ex Libris Higher-Ed Cloud Platform

Leganto

RefWorks

Primo

Rapido

Summon

RapidILL

Pivot

Research Professional

Platform Services

UX & Mobile

Analytics

Shared Content

Collaboration

Multi-tenant

Openness

Security & Privacy

Data Models

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We want a global metadata ecosystem that enables users to find what they need and access it in the best way.

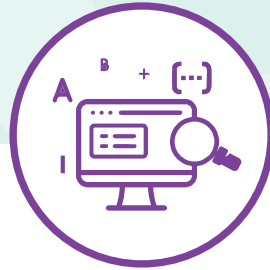**The library vision**

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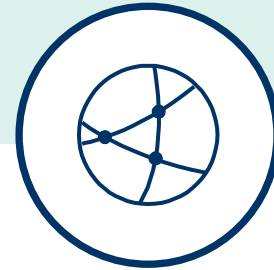# Libraries Need Linked Data

Efficient Cataloging
Higher accuracy with less manual work. Easier to create relationships. Focus on special collections and unique materials.

Better Discoverability
Display enrichment, easier navigation and accuracy. Enabling sophisticate querying making it quicker to find what you want.

Improved Interoperability
Open to the global network of data outside of libraries systems such as research.

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Alma Linked Open Data Development in 2022

Ability to store and have basic use for Linked Open Data records

User will be able to upload and search for a work and instance cataloged as linked open data.

It will also be possible to mange inventory and perform fulfillment workflows for these instances.

Integrate 3rd Party Linked Data Editor

The cataloger will be able to create new linked data records and store them in Alma for use with basic functionality (e.g. Sinopia)

Disclaimer: Roadmap may be subject to change without prior notice at the sole discretion of Ex Libris.

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Primo Linked Open Data Development in 2022

Info card (Primo VE)*

Introducing the new Info Card based on the Linked Data URI.

- Utilize Linked Data URIs to present new Information Cards in the Full Display of a record

- Enrich the display with more information on linked entities and related resources made available thanks to the URI.

Disclaimer: The mockup is conceptual. It shows record enrichment with information from Wikidata

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Linked Open Data Roadmap 2023 and Beyond*

MARC Enrichment
Improvement to URI addition to records

End to End Workflow
From cataloging via inventory management to discovery

Knowledge Graph
Expose the catalog as a triplestore

Disclaimer: Roadmap may be subject to change without prior notice at the sole discretion of Ex Libris.

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MARC Enrichment

URIs in Ex Libris Products

Report of current conditions and best practices

Researched and Prepared By:

Laura Akerman, Greta Heng, Nancy Fallgren, K.T. Lam, Amanda Xu, Lihong Zhu; contributed to editing final report, Xiaoli Li and Laura Akerman

Presented By:

The Linked Open Data Community of Practice (LOD CoP) Working Group

https://drive.google.com/file/d/1F9gJIFr-azwBbQawJBRVQ8sXidMJTjIY/view

Thank you!

URIs issues - Ex Libris backlog

URI form/formatting

- Invalid prefix '(uri)' appearing before URIs (November 2022 release)
- Query (search) URLs are added instead of URIs identifying entities

Placement of URIs

- Enrichment causes duplicated URIs in the same field (Released)
- URIs are added where $0 is not valid
- URIs for subject headings partially matched
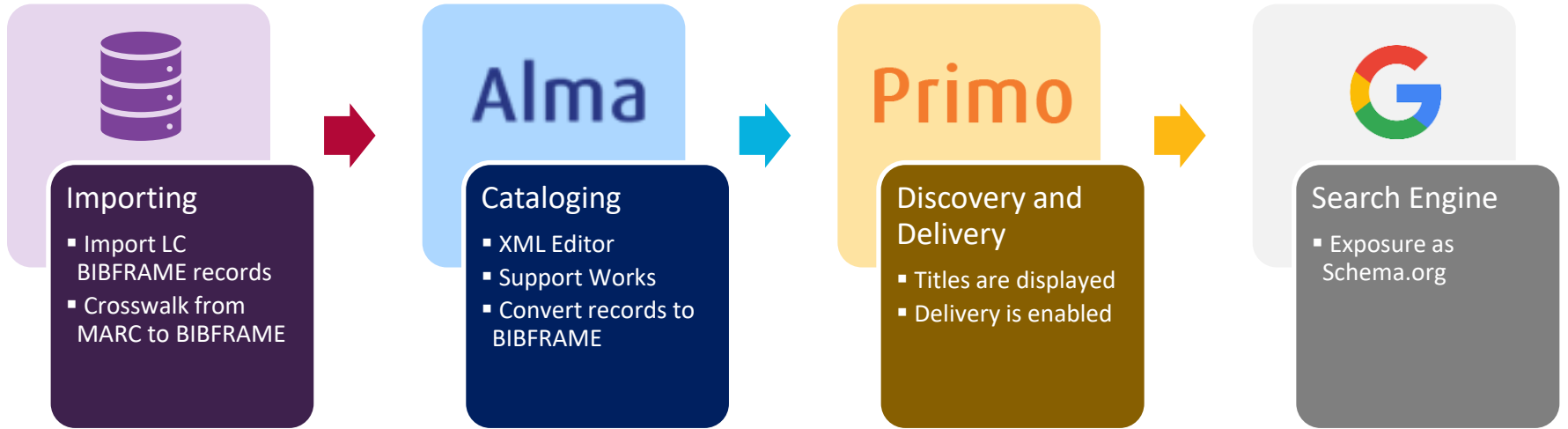- Multiple URIs cause problems with conversion

Functional

- Use of Subfield 1 for "Real World Object" URIs

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End to End Workflow

End to End Workflow

Importing
- Import LC BIBFRAME records
- Crosswalk from MARC to BIBFRAME

Cataloging
- XML Editor
- Support Works
- Convert records to BIBFRAME

Discovery and Delivery
- Titles are displayed
- Delivery is enabled

Search Engine
- Exposure as Schema.org

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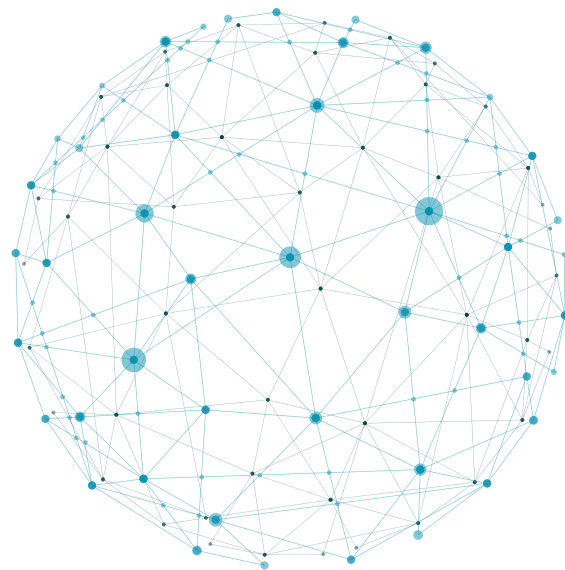# Into the future ... Knowledge Graph

Knowledge Graph – the catalog as a triplestore
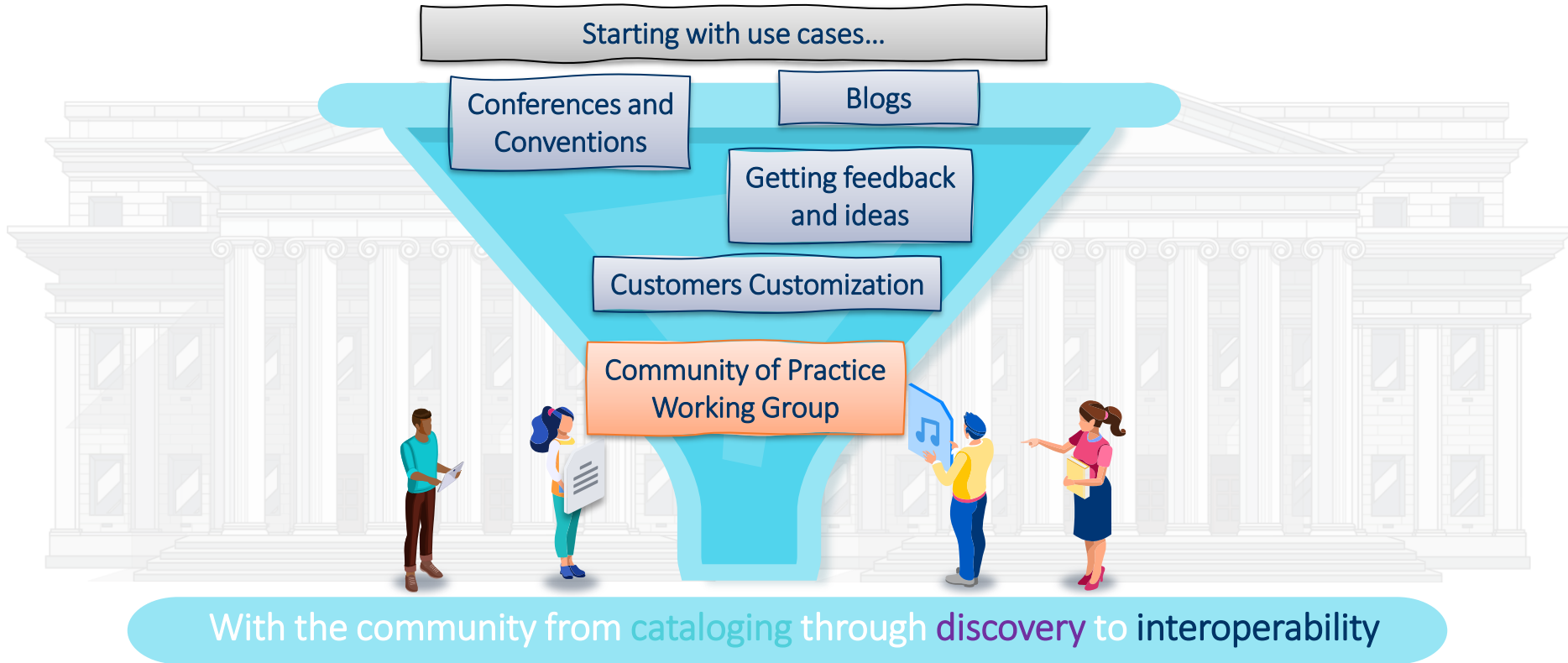
- Starting with a proof of concept for an institution catalog

- We assume multi formats cataloging of MARC and BIBFRAME. The catalog will be transformed to BIBFRAME and stored in the triplestore.

- We are aiming for a collaborative knowledge graph in the future

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Linking Together to Make the Vision a Reality

Cataloging   Discovery   Interoperability

Starting with use cases...

Conferences and Conventions

Blogs

Getting feedback and ideas

Customers Customization

Community of Practice Working Group

With the community from cataloging through discovery to interoperability

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Thank you!

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