



# Linked Data vision

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**ExLibris**  
a ProQuest Company



- Principals
- Advantages
- Where we are?
- Linked Data Roadmap
- Infrastructure
- Ex Libris Linked Data Ecosystem
- Questions and challenges

# Linked Data principals



## Prime

Cataloging of new record by using linked data formats



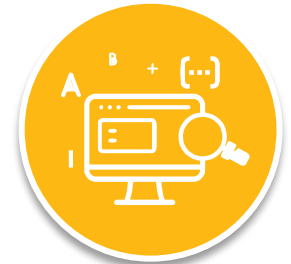
## Side by side

Existing records in various formats will continue to be managed side by side with Linked Data records



## Eco system

Provide ability to managed URI for all records across institutions in Ex Libris platform as part of global eco system



## Navigation

Leveraging the relationship between linked records. For example: Display, navigation, and data processing

# Linked Data advantages examples



## Authority control

authority control will be online by using variety of international sources



## Enhanced searches

displaying results that users were not aware of previously



## Awareness

complementary additional enriched data during the cataloging process



## Library collections exposure

allowing applications that to use and create links to library info



## Metadata

by catalogers, suppliers and publishers will be an integral part of library workflows



## Two-way interchange

between library systems and non-library systems on an as-needed and real-time basis.

# Linked Data – Where we are?

Display in search  
in result and record view  
(also as BIBFRAME)

API endpoints  
in: BIBFRAME, RDA/RDF  
and JSON-LD



**Records enrichment**  
automatically with URIs for  
language, identifiers, names,  
and subjects

**Publish**  
entire catalog:  
BIBFRAME, RDA/RDF

**Discovery**  
of the underlying metadata  
and access to it via URIs

[Ex Libris: Journey to Linked Open Data Support – An Update](#)

# Linked Data Roadmap – Cataloging and technical services



2019 Q4

POC of Search index



2020 H1

Support search indexing of prime linked data records



2020 H2

Supporting prime cataloging of new resources as Linked Data

## The Future

- BIBFRAME / RDA-RDF, JSON-LD, ontology and formats
- Identifying based on URIs
- Loading of prime Linked Data (Graph structure) bibliographic records from other systems

- Enriched data displayed in routine workflows
- Local Authorities as URI
- URI Management in Alma as a source for URI and Reconciliation

- Ability to control how URI are being searched across different sources
- OpenURL Resolving
- Resource Sharing / ILL
- ...

# Linked Data Roadmap – Discovery and Delivery



## Underlying Metadata

Discovery of the underlying metadata and access to it via

URIs



## Non-Library

Use of linked data by non-library applications



## Interface

The discovery system as the key interface to make data accessible to people and computers



## Search Platform

Improving discoverability by general search platforms (i.e. Google) by embedding schema.org in discovery pages



## API

The use of RESTful APIs to provide support for applications based on linked data

# Linked Data - infrastructural foundations



Search  
indexes

More ...

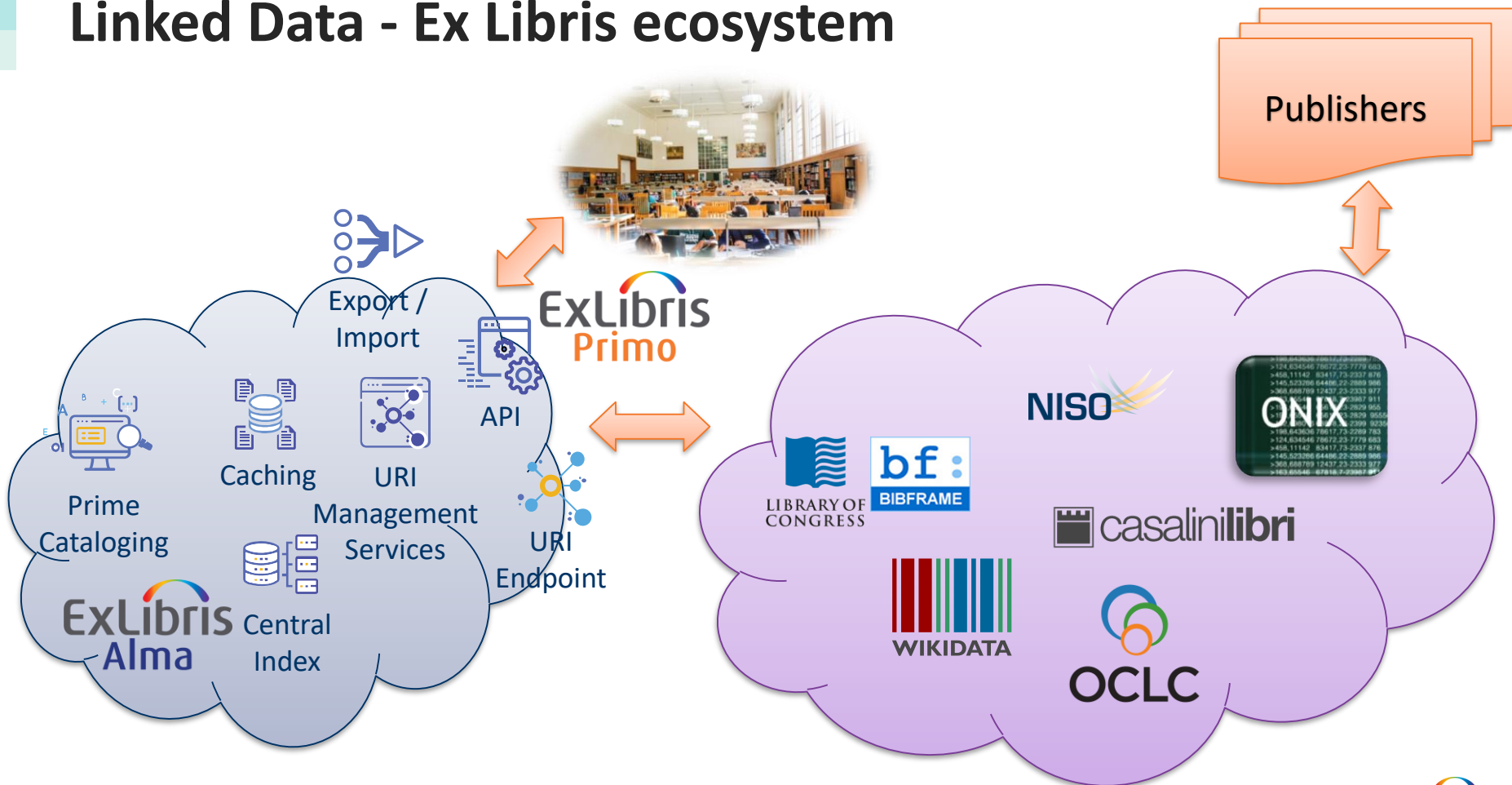
Enrich Display  
with entity data using the  
URI and external  
resources. e.g. showing  
all author info when

Caching

of descriptions for URI



# Linked Data - Ex Libris ecosystem



# Questions and challenges

- Which format will use primarily? BIBFRAME? simplified? other?
- Will current formats and Linked Data records can be linked with each other?
- How to keep name spacing for RDF? (External, Ex Libris Cloud Platform)
- Multi lingual support
- Linked Data at scale
- Reconciliation beyond the Ex Libris Cloud platform





THANK YOU!

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