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### **Linked Data as a Cooperative Effort**

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# **OCLC OVERVIEW**



# OCLC – all about the community

- Non-for-profit library member cooperative
- Fully functional suite of products and services
- Engagement as a differentiator
  - OCLC Research
  - Partnership
  - Community driven



# LINKED DATA AS A COOPERATIVE EFFORT



## A decade with Linked Data

#### oc.lc/linkeddataresearch



Publish linked data - FAST, VIAF, WorldCat (2009 - )



**EntityJS** Research Project (2013)



Person Entity Lookup Pilot (2014)



Refinery (2015-16)



Project Passage (2017 - 18)

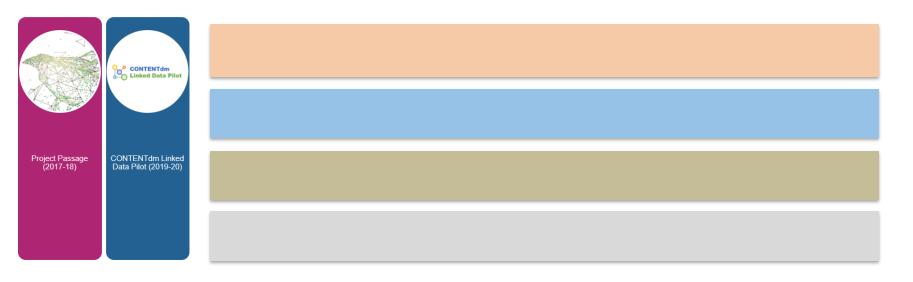


CONTENTdm Linked Data Pilot (2019-20)



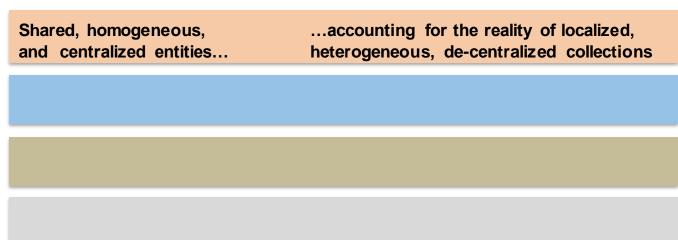
Shared Entity Management Infrastructure (2020-21)













Shared, homogeneous, and centralized entities... ...accounting for the reality of localized, heterogeneous, de-centralized collections

Machine-matching, highly automated reconciliation... ...with tools for hand-matching, semi-automated reconciliation...



Shared, homogeneous, and centralized entities...

Machine-matching, highly automated reconciliation...

Well-accepted context:
Persons & Works

...accounting for the reality of localized, heterogeneous, de-centralized collections

...with tools for hand-matching, semi-automated reconciliation

Granular context:
About, Depicts, Annotations, Notes



Shared, homogeneous, and centralized entities	accounting for the reality of localized, heterogeneous, de-centralized collections
Machine-matching, highly automated reconciliation	with tools for hand-matching, semi- automated reconciliation
Well-accepted context: Persons & Works	Granular context: About, Depicts, Annotations, Notes
Blurs the line between bibliographic & authority work	Blurs the line between object description & context description



Shared, homogeneous, and ...accounting for the reality of localized, centralized entities... heterogeneous, de-centralized collections Machine-matching, highly ...with tools for hand-matching, semiautomated reconciliation... automated reconciliation Well-accepted context: **Granular context:** Persons & Works About, Depicts, Annotations, Notes Blurs the line between Blurs the line between object description & bibliographic & authority work context description

A large centralized infrastructure is needed. Custom applications and interfaces are needed.

This will facilitate new Knowledge Work in libraries.



# WHY A LIBRARY INFRASTRUCTURE?



# Vision: Linked data for any library

Multi-lingual, interconnected, context-rich metadata for all material types



Low barrier Library specific

Shaped and governed by OCLC and library community

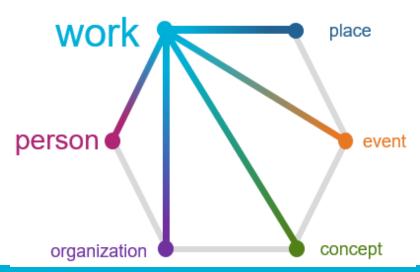
Serving cultural heritage Linked to general purpose data hubs



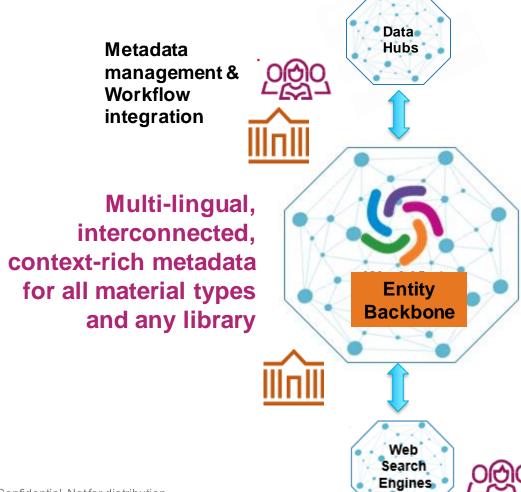
# So what are we building?



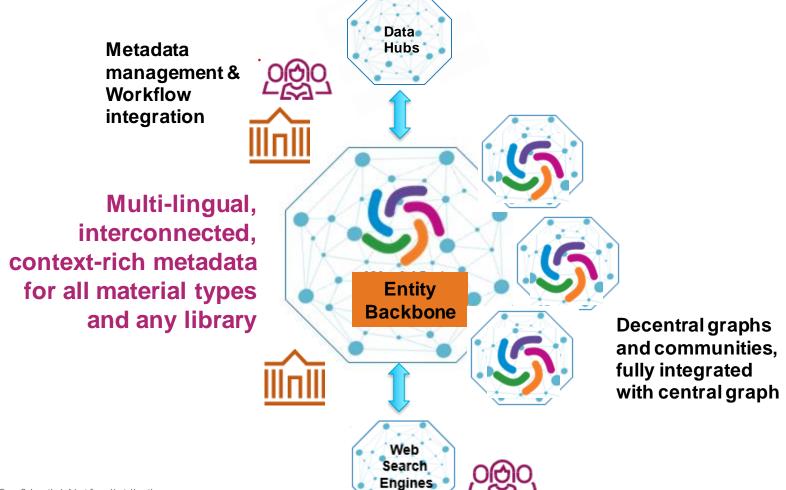
- An ecosystem for entities
  - Sustainable production infrastructure for libraries, at scale
- Metadata management tools for legacy and next-gen data
  - Workflow and integration support
  - Ability to ingest, transform, publish in (almost) any schema
- In partnership with libraries and cultural heritage institutions



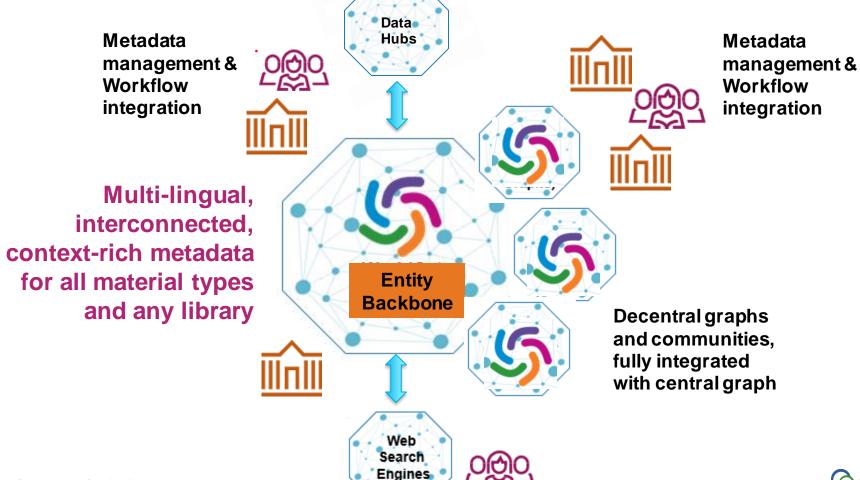














# **Long-term Guiding Principles**

- Persistent URIs (OCLC commitment)
- Optimized for storage, use and exchange of unique identifiers of ALL types
- Infrastructure tolerant of the heterogeneity of standards, practices, and metadata structures libraries need
- All libraries can benefit
- Continued support for and integration with MARC



# Project outputs...

## Entity infrastructure

- 150+ million entities w/ persistent URIs
- Production
- Foundational infrastructure



# Public website (free)

- Widely available
- No sign-in and no fee
- Search and view WorldCat Entities



#### **Entity APIs**

- WorldCat Entity Search API (search and view)
- WorldCat Entity
   Management API
   (search, view,
   create, and edit)



#### Basic user interface

- AKA SEMI UI
- Search, view, create, or edit WorldCat Entities





# ... and continued development

# Entity infrastructure

- 150+ million entities w/ persistent URIs
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#### **Entity APIs**

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- WorldCat Entity Management API



#### Basic user interface

 Search, view, create, or edit WorldCat Entities



#### Moving forward

- Development partner phase
- General release
- Additional functionality (ongoing)





# Stay tuned

Stay tuned slide, mention future press release



#### Relevance in the UK

- Governance and mission of OCLC extends globally
- Plan M and Jisc efforts National Metadata Agreement
  - What's in it for libraries?
- Advocacy and Engagement essential
- Community driven efforts will ensure success







Our work forms part of Jisc's 'Plan M' - a vehicle being used to address the following issues identified by UK academic and specialist libraries:

Practical	Strategic
Misdirected effort	Fragmented Infrastructure
Having to look in multiple places to find suitable records or creating records where a suitable one already exists	Having multiple delivery mechanisms and different working practices is inefficient and incoherent
Duplicated effort	Uneconomic practices
Different organisations and suppliers making the same or similar changes to a record	Precious resources and investment are being wasted
Unexploited value	Sectoral transformation inertia
The inability to share enhanced records with other organisations who may be able to benefit from them	The focus of cataloguing practice needs to shift towards automation of routine cataloguing and investment in special collections

#### **Key Activities: Supply Chain Engagement**



Establish a Strategic Metadata Taskforce to lead on engagement, advocacy and action: consisting of strategic representatives from across the supply chain



Work with library metadata practitioners to define a 'fit for purpose' metadata standard which clearly specifies consistent requirements valid throughout the supply chain



Engage with primary publishers through their library advisory groups and by convening a Round Table event to open a dialogue about collaboration



Develop pilot projects with key publishers to share their metadata openly



Work through Jisc Collections and regional procurement consortia to leverage dialogue with secondary publishers



Link up with existing standards bodies helping to connect experts and stakeholders

#### **Questions?**

#### **Fiona Carr**

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# Because what is known must be shared.®

