The UC Davis BIBFLOW Project







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Overview of BIBFLOW Project

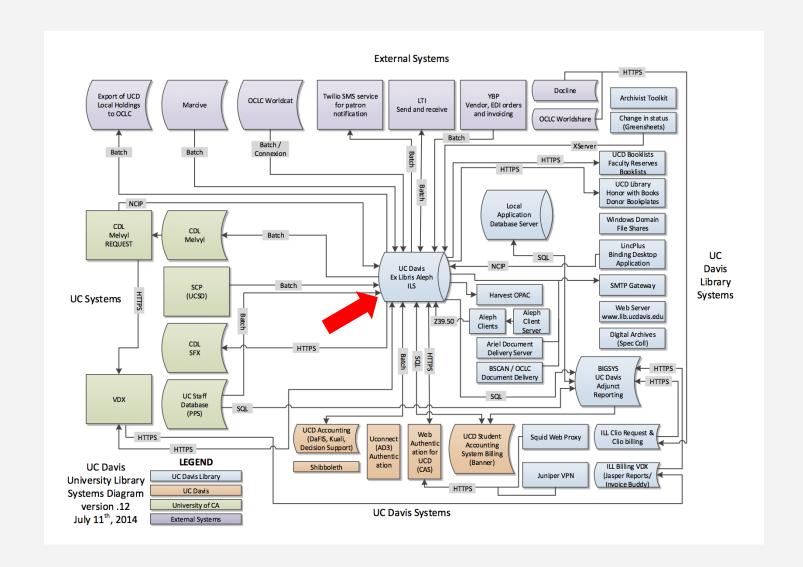
- A 2-year project of the UC Davis
 University Library and Zepheira, funded
 by the Institute of Museum and Library
 Sciences (May 2014 April 2016)
- Official title: "Reinventing Cataloging: Models for the Future of Library Operations"

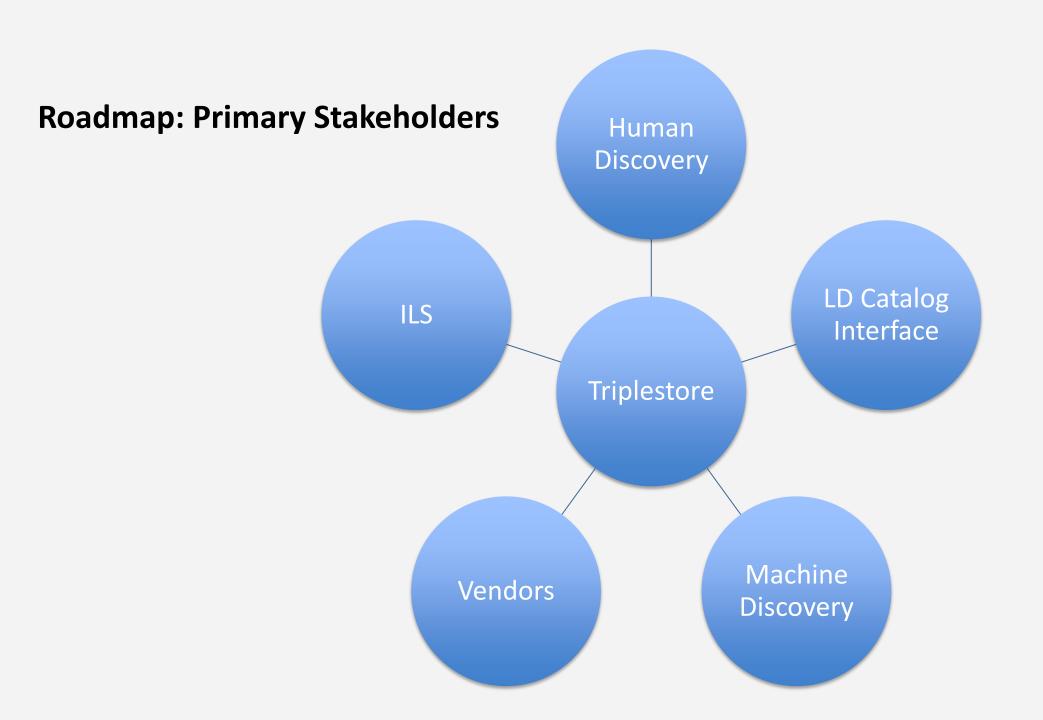
What is BibFrame?

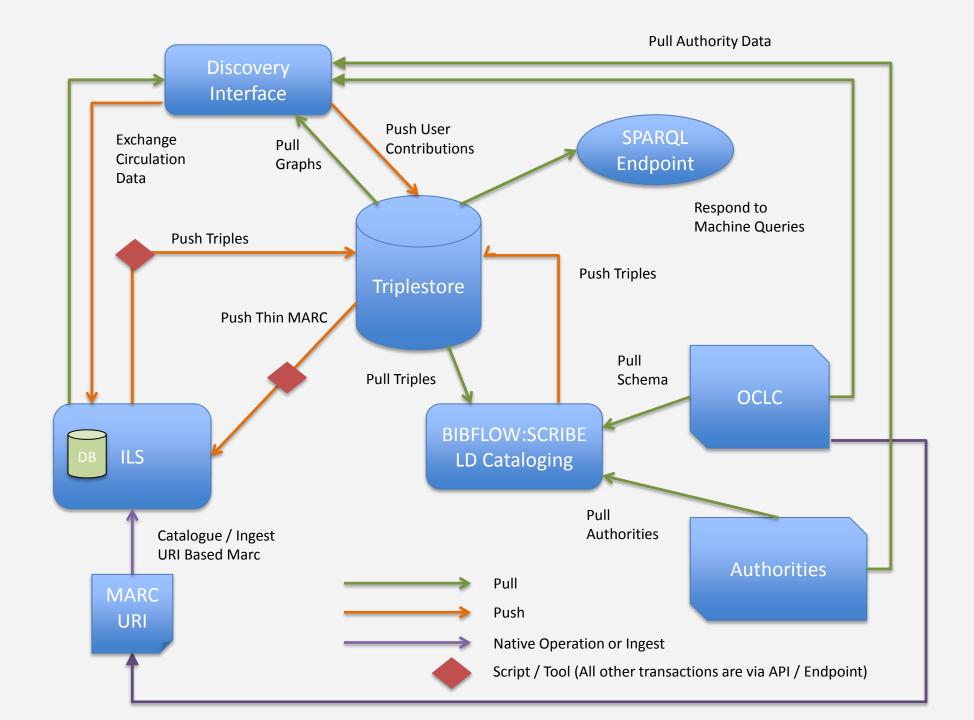
- A web-based replacement for the MARC format
- Designed for a linked data model, utilizing Resource Description Framework (RDF) and Uniform Resource Identifiers (URI)
- www.loc.gov/bibframe

Overview of BIBFLOW Project

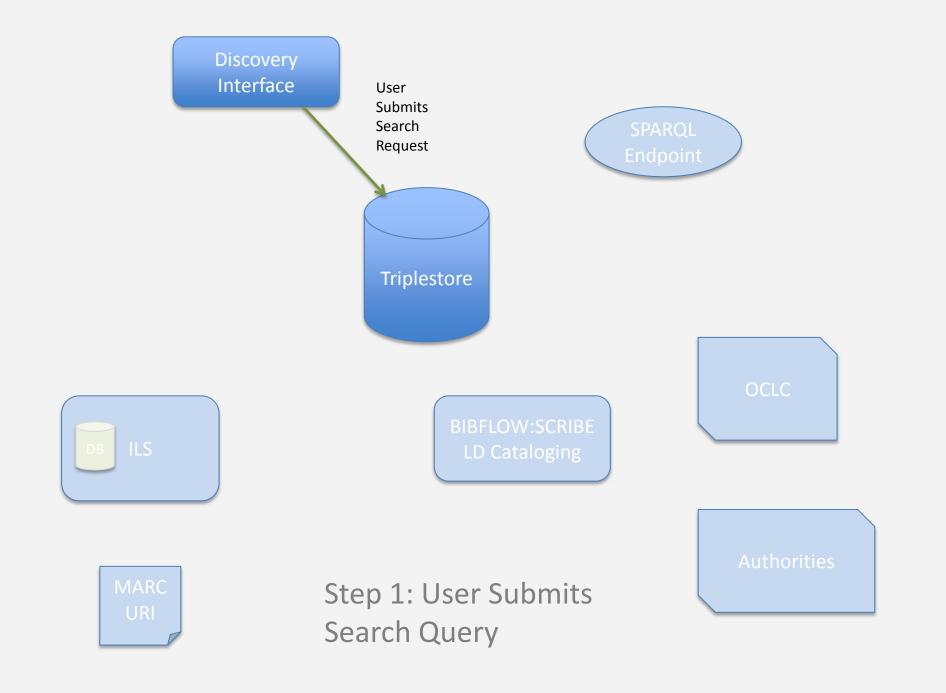
- A research project that will address
 questions like "What impact will adoption
 of BIBFRAME have on technical services
 workflows in an academic library"?
- Its primary purpose is to understand the ecosystem, test solutions, and provide a roadmap of how libraries can iteratively migrate to linked data without disrupting patron or business services.

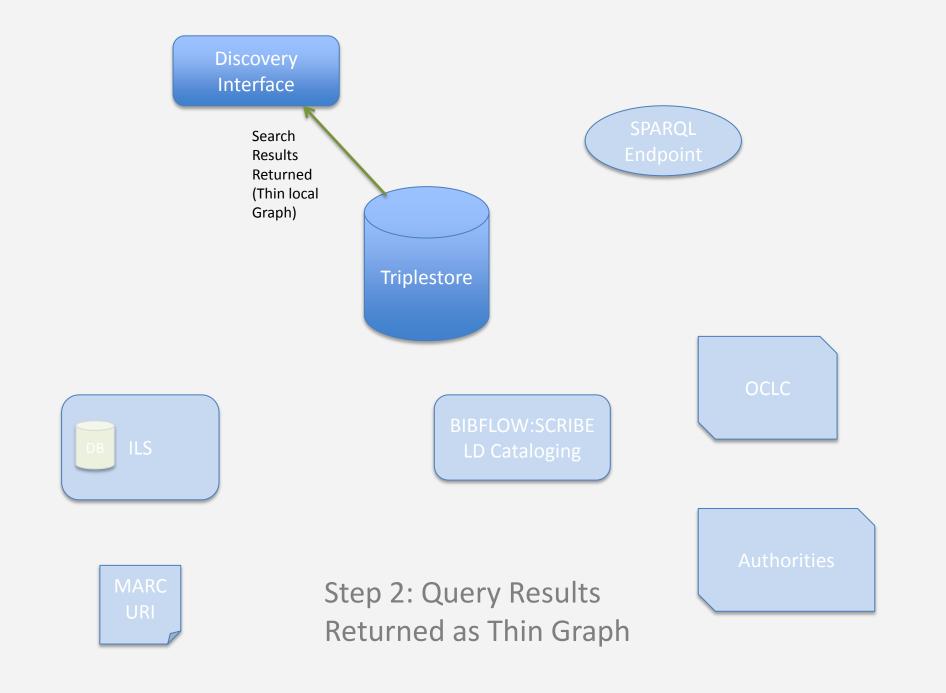


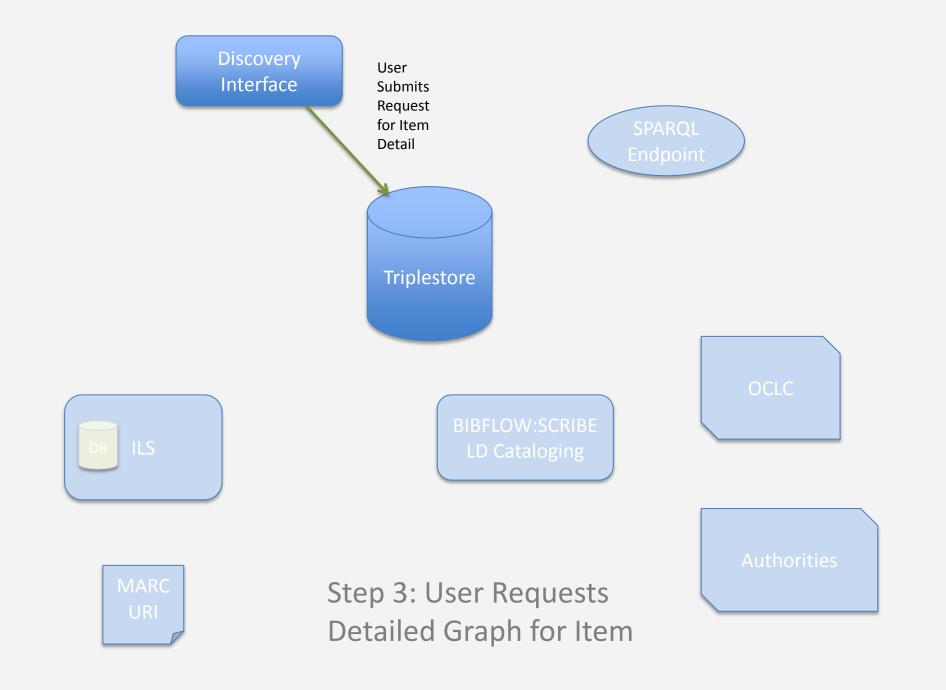


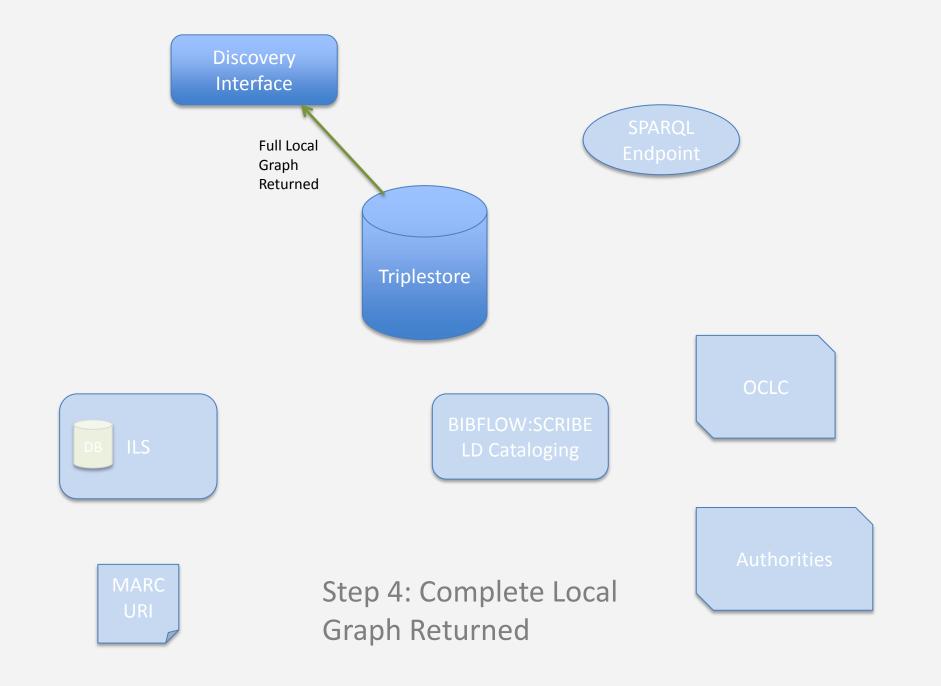


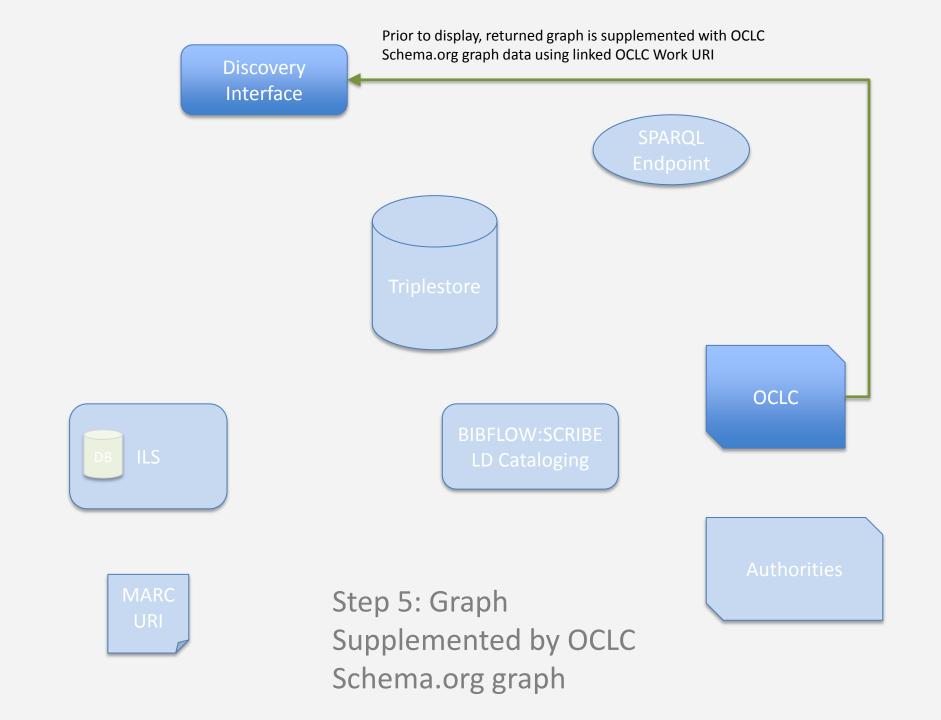
Discovery Information Flow

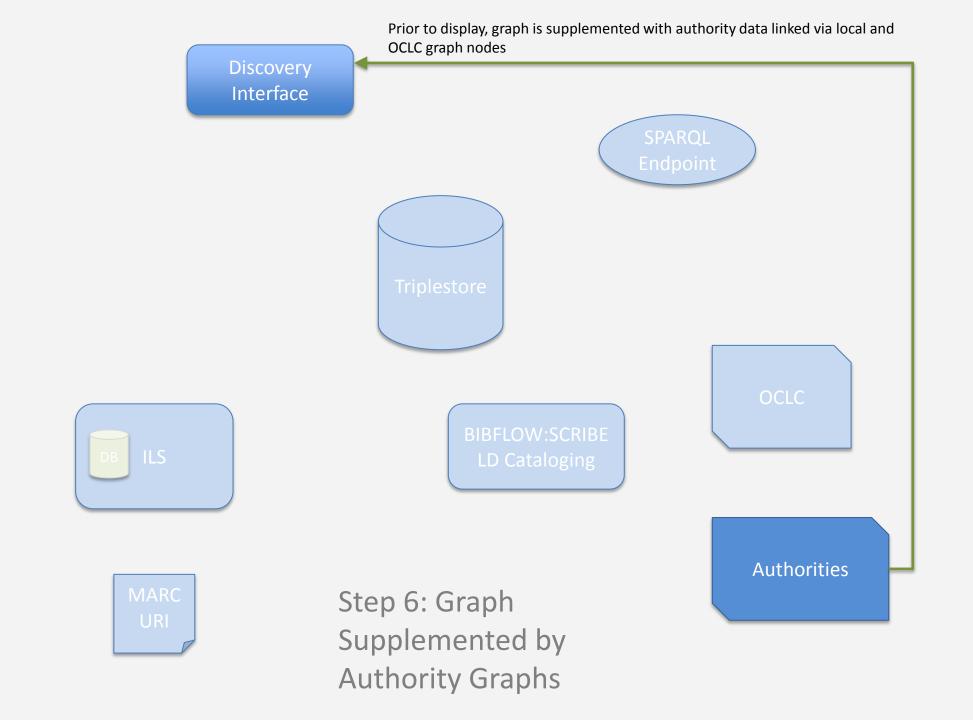


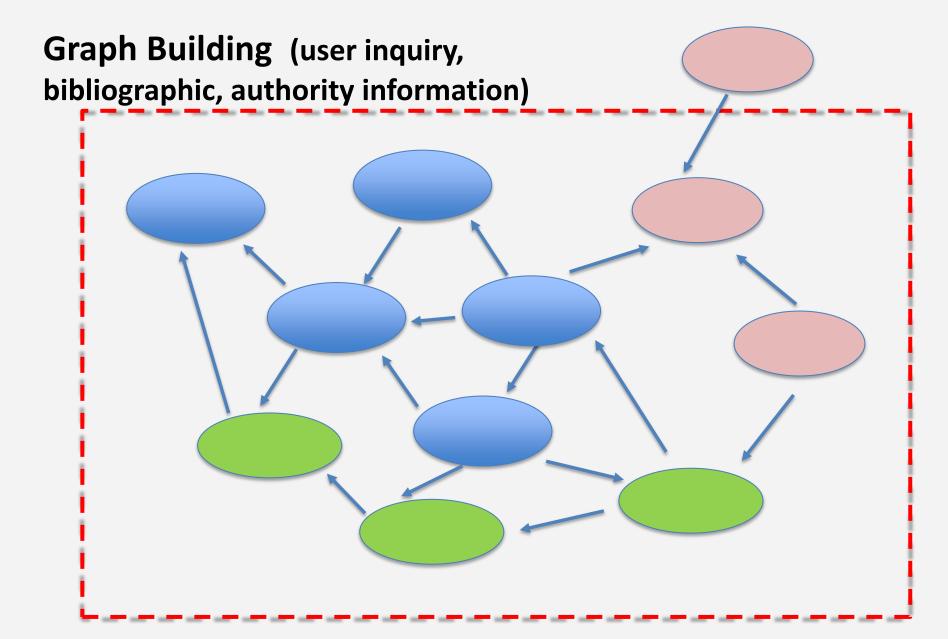




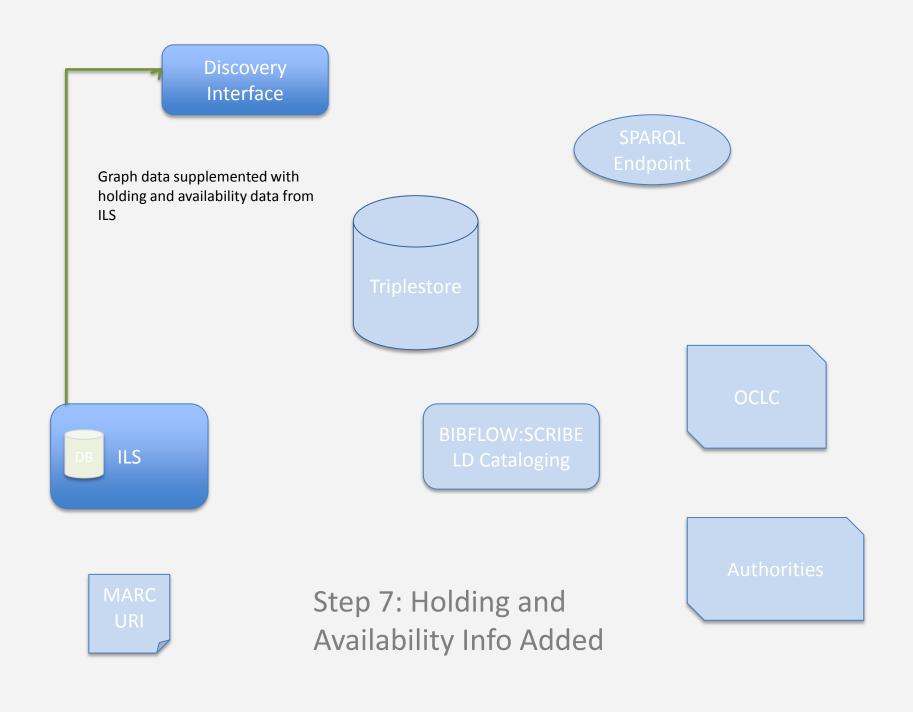








Triples in the rectangle form a record view which is displayed to a user via the discovery interface



Discovery Interface

The detailed view is displayed to the user after the complete graph has been assembled from its various sources. Note that the computer is capable of handling each of the steps involved in the process in fractions of a second, so the user experience no more delay in response than that present using current systems.







Step 8: Completed Graph Displayed to

User

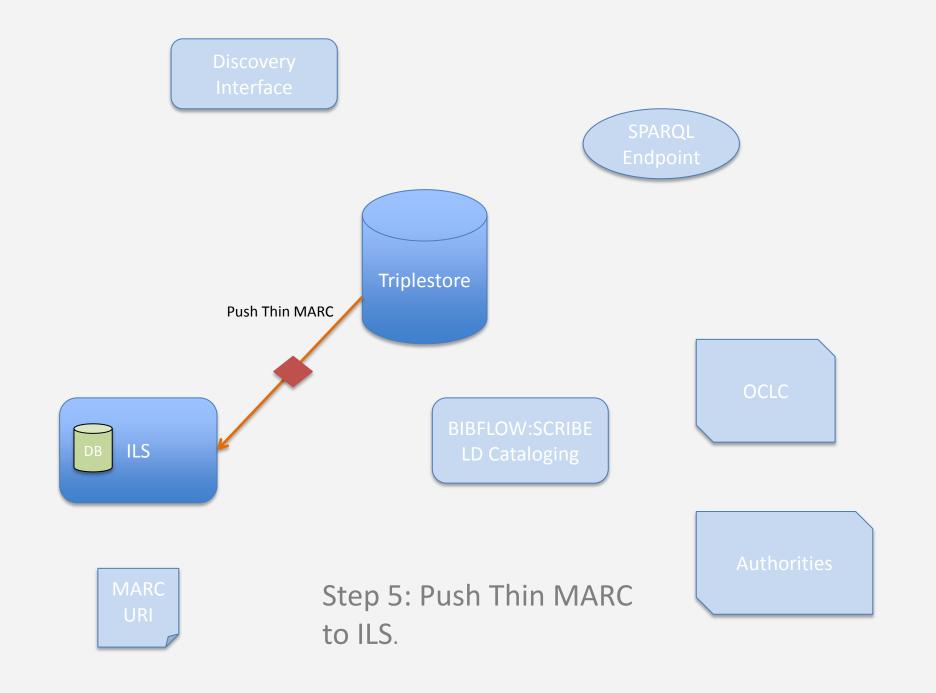
Cataloging Data Flow

Triplestore BIBFLOW:SCRIBE LD Cataloging Step 1: Check to see if record exits. Load for Edit if Yes. New if No.

Pull Schema OCLC BIBFLOW:SCRIBE LD Cataloging Step 2: Pull Schema Data from OCLC.

BIBFLOW:SCRIBE LD Cataloging Authorities Step 3: Pull Data from Authorities

Push Triples Triplestore BIBFLOW:SCRIBE LD Cataloging Step 4: Push New Graph to Triplestore.



Cataloging Data Flow if No Authority Found

Triplestore BIBFLOW:SCRIBE LD Cataloging Step 1: Check to see if record exits. Load for Edit if Yes. New if No

Pull Schema OCLC BIBFLOW:SCRIBE LD Cataloging Step 2: Pull Schema Data from OCLC

BIBFLOW:SCRIBE LD Cataloging Authorities Step 3: Attempt to Pull Authority, but no Match Found

Discovery Interface

> SPARQL Endpoint





When an Authority cannot be found, the cataloger enters data (name, dates, etc.) directly into the cataloging interface.

BIBFLOW:SCRIBE LD Cataloging



OCLC

Authoritie

MARC URI

Cataloger submits the graph, Triplestore including information about the new Entity BIBFLOW:SCRIBE LD Cataloging Step 5: Push New Graph and Entity Data to **Triplestore**

Discovery Interface

> SPARQL Endpoint

On submission, a new Entity graph is created in Triplestore with a **unique URI**. New URI is then added to the the item graph which is then saved

to Triplestore.



DB ILS

BIBFLOW:SCRIBE LD Cataloging

OCLC

MARC URI

Step 6: Push New Graph and Entity Data to Triplestore

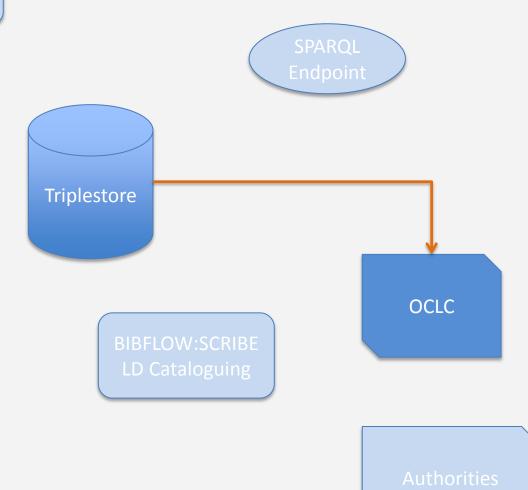
Authorities

Discovery Interface

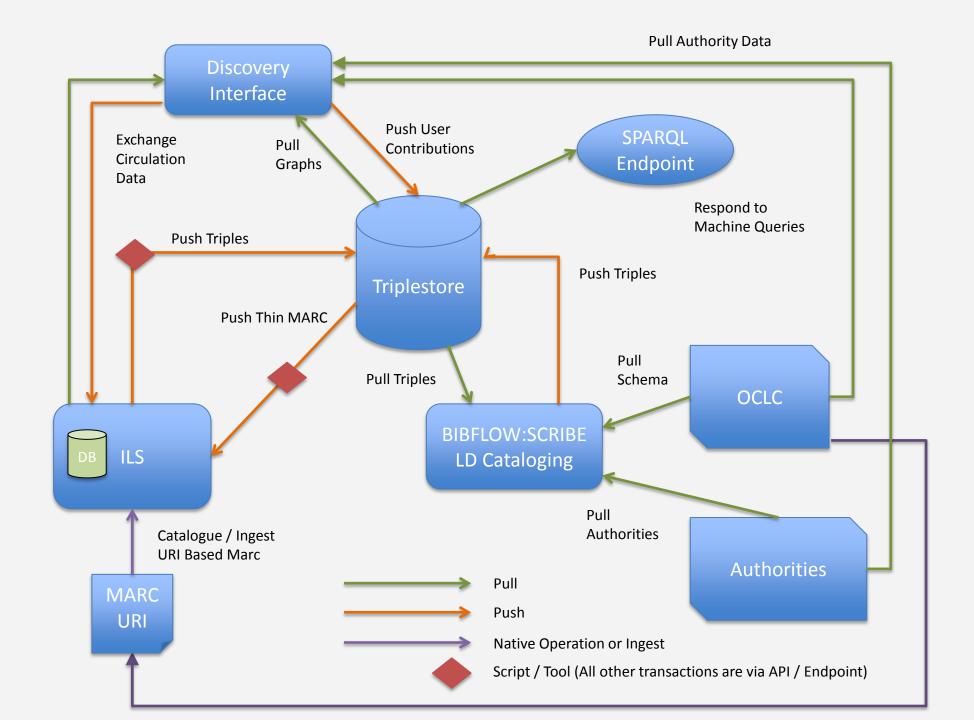
New entity graph is pushed to OCLC for reconciliation. OCLC service either connects to existing, overlooked authority or creates a new Authority and links entity to the new Authority. The reconciliation service provides a publicly accessible (LOD) and machine actionable map of "Same As" relationships between entities and Authorities.







Step 7: Entity Graph
Pushed to OCLC for
Authority Reconciliation



What did BIBFLOW achieve?

A roadmap that serves as a bridge from MARC to linked data



 The roadmap provides intermediate steps for libraries to eventually move away from MARC entirely.

Acknowledgements

Carl Stahmer, BIBFLOW Project Manager, provided many of the PowerPoint slides used in this presentation.



BIBFLOW: A Roadmap for Success





