BIBFRAME at last?

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Expectation

- Convert to BIBFRAME-based system in 2024/25

- Agenda today
  - Recap of last 10+ years
  - Last year's plans
  - Major change
  - Recent developments

Long road

- LC published *On the Record: Report of the Library of Congress Working Group on the Future of Bibliographic Control* – 2007
  - Two committee recommendations:
    - Use technology to get broader use of library curated vocabularies
    - Replace the MARC format with a data interchange framework that makes library data more readily available on the web.

So first – LC Linked Data Service (id.loc.gov) -- 2009

- Recommendation 1: Use technology to get broader use of library curated vocabularies
  - First "curated vocabulary" made available: LCSH
  - Then added --
    - Name authorities
    - Other LC thesauri, such as Thesaurus for Graphic Materials, genre lists, etc.
    - Description terms from MARC and from RDA: languages, countries, geographic areas, **…**
    - Cultural organization codes
  - Focused on <u>machine</u> search and retrieval, giving responses in RDF and simple HTML
    - Uses MADSRDF and SKOS
  - Today over a million hits a day on average

And then – last 10 years

- Recommendation 2: Replace the MARC format with a data interchange framework that makes library data more readily available on the web

- Experimented, 2012-2014
  - "Early Experimenters" Group
  - Modeling contracts
  - FRBR/RDA constructs

- Pilots, 2015-2022
  - 40, then 60, then 100 catalogers
  - First editor, simple search, first MARC to BIBFRAME conversion

During experimentation and pilots

- Database enrichment
  - Search
  - Load/Conversion
- Development of editor, Marva
  - Use of LC's Linked Data Service
    - Pick lists
    - Type aheads
    - Added many more lists from RDA
  - Contracts, cataloger input, weekly "office hour"
- Sharing
  - Conversions, BIBFRAME "records", reports

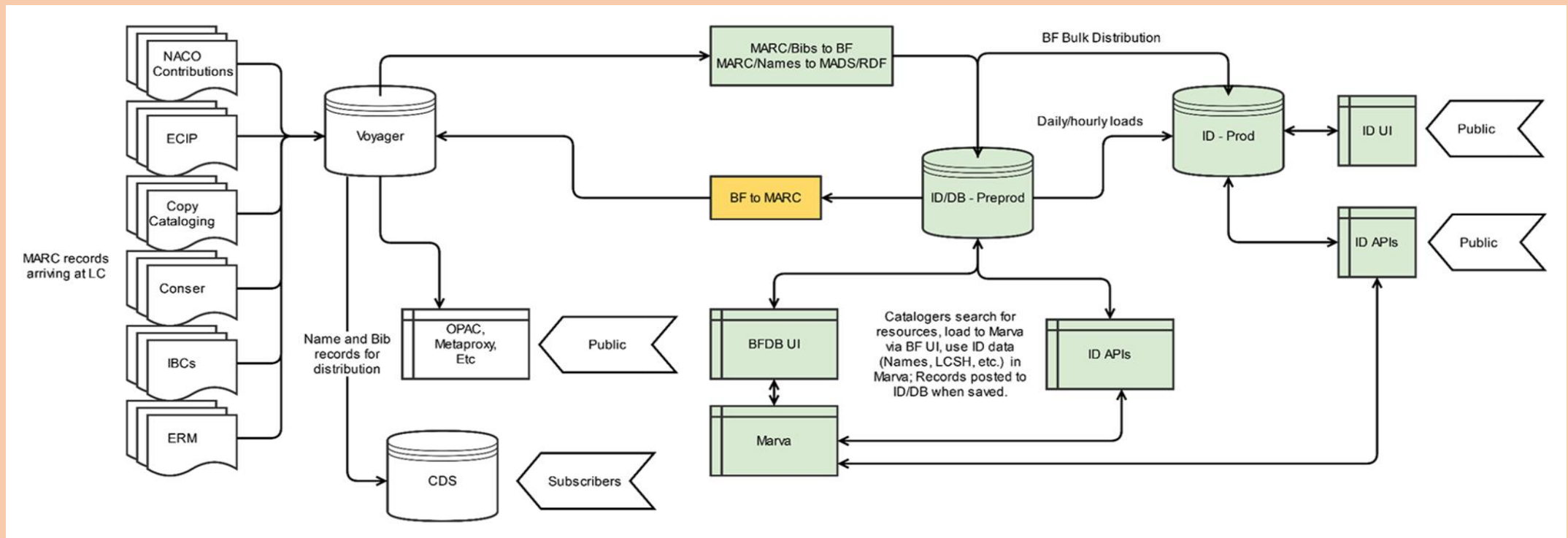# During experimentation and pilots

- Examining transliteration
  - Complex in various ways
    - Different scripts have different needs – right to left, vowel complexity, readings
  - Development of Scriptshifter tool
    - Ready with less complex scripts like Cyrillic-based scripts
      - Approximately 25 languages / 11 scripts
    - Testing now Korean
    - Next up will be Hebrew and Arabic
    - Incorporating or accessing external tools for these scripts
    - https://github.com/lcnetdev/scriptshifter

- How much data needs to be transliterated? title, names, imprint? notes?

During experimentation and pilots

- Examining title Authorities
    - MARC Title Authorities → MARC Title Bibliographic <u>Works</u> → BIBFRAME Hubs
    - MARC pluses
        - Richer related resource links like MARC Bib 7XX
        - Genre type of information like MARC Bib 655
        - Notes that apply to all instances like MARC Bib 524, 520
        - Subject information
    - Fits better with FRBR, RDA, and BIBFRAME models

Last year's plan

- New system funding delayed so . . .
- Plan to try to attach a BIBFRAME component to Voyager

Pivot to FOLIO in 2023

- Funding for new system allocated by US Congress
- Selected FOLIO (Future Of Libraries Is Open), with BIBFRAME as part of the contract
  - Folio's modern architecture and flexibility
- Ebsco as implementation partner
  - Ebsco had acquired BIBFRAME components
    - Zepheira, Bibliograph network
  - Ebsco sees value in development around BIBFRAME
- But, FOLIO is basically MARC oriented with intentions to incorporate linked data

Pivot too soon?

- FOLIO database did not yet have a datagraph for handling RDF and BIBFRAME

- FOLIO did not have a BIBFRAME data editor

- But Ebsco/FOLIO have been very responsive
  - Work underway on a datagraph for FOLIO
  - Adapting LC's BIBFRAME editor, Marva, to the FOLIO framework
  - Gloria Gonzales from Ebsco will give more detail tomorrow at 11:30

Since last BFWE – BIBFRAME Ontology activity

- BIBFRAME vocabulary update: October 2022 - v2.2
    - Another in October/November 2023

- Changes are in response to requests from serious, active implementers

- Version changes for v2.2 include:
    - Adjustments of some domains/ranges – similar to unstructured WEMI
    - New elements like hubs, bindings, non-sort
    - Work subclasses that enable easier movement between BIBFRAME and MARC

- https://id.loc.gov/ontologies/bibframe.html

Since last BFWE - MARC/BIBFRAME conversions

- Critical to refine BIBFRAME to/from MARC
- Three releases of MARC to BIBFRAME since last September
  - v2.1.0 – Oct 2022
  - v2.2.0 – Dec 2022
  - v2.3.0 – Jan 2023
  - https://github.com/lcnetdev/marc2bibframe2/releases
- Currently MARC to BIBFRAME at version 2.3.0, recent changes:
  - Leader 06/07 clarifications
  - Imprint for the 3rd time(!) – to overcome extra subfielding in MARC
  - Series issues – series have had a rocky existence in MARC between 400-430, 440, 490, 8XX
  - Non-sort information – finally took the easy way out

MARC/BIBFRAME conversions

- Currently BIBFRAME to MARC at version 2.0

- BIBFRAME to MARC more complex
  - BIBFRAME splits out instances, MARC puts them together on one record
    - Recombine?
  - BIBFRAME combines duplicate information
    - Reduplicate?
  - BIBFRAME contains URIs for many elements
    - Take data strings/codes and leave URIs behind?

What is coming for BIBFRAME in the future?

- Share-VDE plans later this morning
- Tomorrow afternoon, hear about
  - More about FOLIO
  - ExLibris developments
  - OCLC activities
- A fresh look at interoperability that accommodates Works and Instances
  - International group called BIG (BIBFRAME Interoperability Group)
  - Figuring out the composition of interchange descriptions without the MARC unit record.
- How do we start linking and stop copy cataloging?
  - Sweden, Share-VDE, and OCLC have explored components
  - The next presentation by Philip Schreur will take a creative look at this

Thanks and some URIs

- **Main BIBFRAME project site:** www.loc.gov/bibframe/
  - *Links to MARC to BIBFRAME specifications, conversion programs, and comparison tool*
  - *Links to BIBFRAME to MARC specifications, conversion programs, and comparison tool*
  - *Links to Editor design documents and software*

- **LC Linked Data service:** id.loc.gov
  - *Contains links to BIBFRAME bibliographic data, name and subject authorities, and many vocabularies*