BIBFRAME and Cataloging: changing landscapes

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BIBFRAME

Outline

- **Motivators**
  - Why move away from MARC
  - New library cataloging norms
  - Active modeling projects
  - Library collections and systems
- **Goals**
- **What BIBFRAME looks like**
  - MARC model – BIBFRAME model
  - Bringing current data forward
  - Issues
- **Information about**

Motivators

- **Why move from MARC?**
  - Positives of MARC
    - Fully permeates library processes, globally
    - Adapted to different cataloging conventions
    - Adapted to XML and UNICODE environments
  - Issues with MARC
    - Accumulation of data elements
    - Increasing problems with structural limitations
    - Not easy to adapt to Linked Data conventions and needs

Cataloging practices

- **New library cataloging norms – e.g., RDA**
  - Emphasis on relationships
  - More flexibility with authoritative headings
  - Incorporate linked data points – using URIs where possible
  - Norms for non-book media
- **Transcription pros and cons**
- **Non-traditional material**
  - Cover images, excerpts, table of contents, reviews, abstracts, author biographies, crowd sourcing
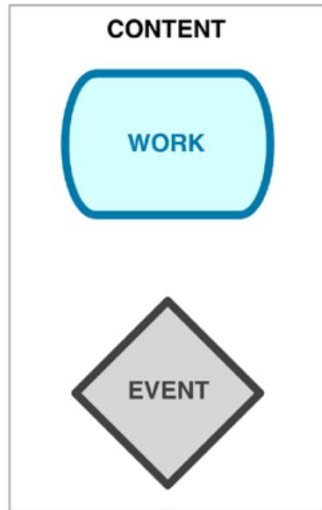
Modeling

- ## Active modeling projects
  - ❏ FRBR - Functional Requirements for Bibliographic Records
  - ❏ FIAF – International Federation of Film Archives data model
  - ❏ INDECs - <indecs> metadata framework
  - ❏ OLAC – Online Audiovisual Catalogers model
  - ❏ CIDOC CRM – CIDOC Conceptual Reference Model
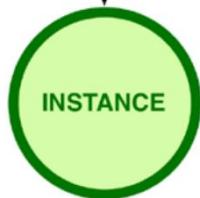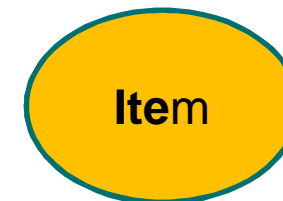 - ❏ DACS – Describing Archives Content Standard

Models

- ## Model variations, for example

CONTENT

WORK

EVENT

affix process

INSTANCE

Work

Expression

Manifestation

Other model components?
instantiation, abstraction,
performance, media object,
variant, container

Item

bf:
BIBFRAME

Library Collections

- ## Printed resource production – not yet diminishing

- ## E-resources

  - Increasing from the publisher

  - Increasing in the collections

- ## Media resources

  - More central role – moving image, recorded sound, still image, web archiving, …

Library Systems

- ## Increasing need for eResource <u>access</u> management

  - ❑ Licensing management

  - ❑ Rights management

- ## And for eResource <u>object</u> management

  - ❑ Preservation

- ## Integration with web resources via data linking

BIBFRAME goals

Goals for BIBFRAME

- **Broad accommodation of content norms and data models**

- **New views of different types of metadata**
    - descriptive, authority, holdings
    - coded data, classification data, subject data
    - preservation, rights, technical, archival

- **Reconsideration of the data-related activities**
    - exchange, internal storage, input interfaces and techniques

Goals for BIBFRAME

- **Accommodate linking**
  - traditional = textual, identifiers
  - semantic technology = URIs

- **Accommodate needs for different types of libraries**
  - large, small, research, public, specialized, …

- **MARC transition**
  - maintenance of MARC 21 continued
  - enable reuse of data from MARC
  - provision of transformations to new models
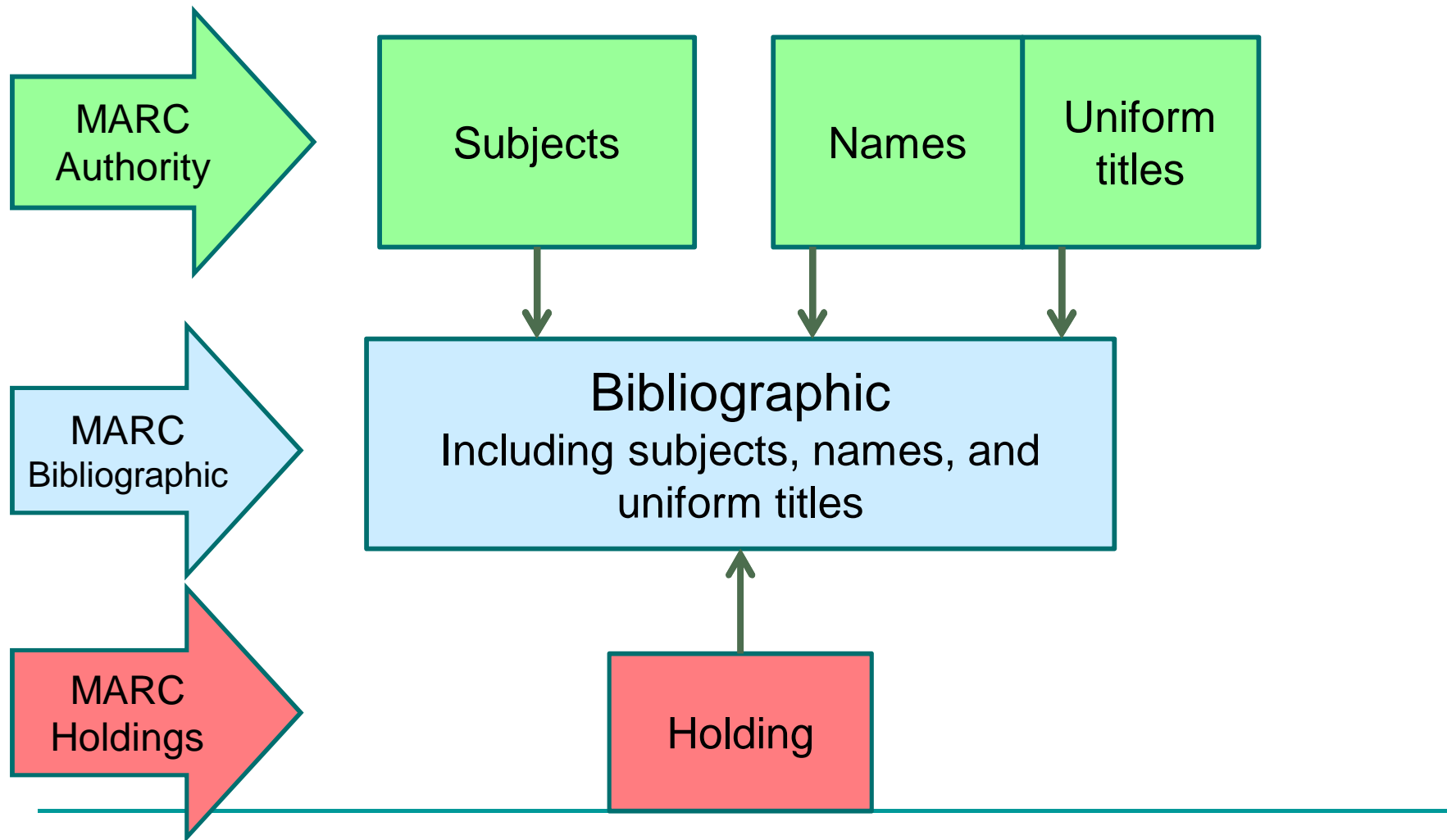
What BIBFRAME looks like

Current high level format model – MARC family

- **MARC Bibliographic records**
  - Descriptions of resources
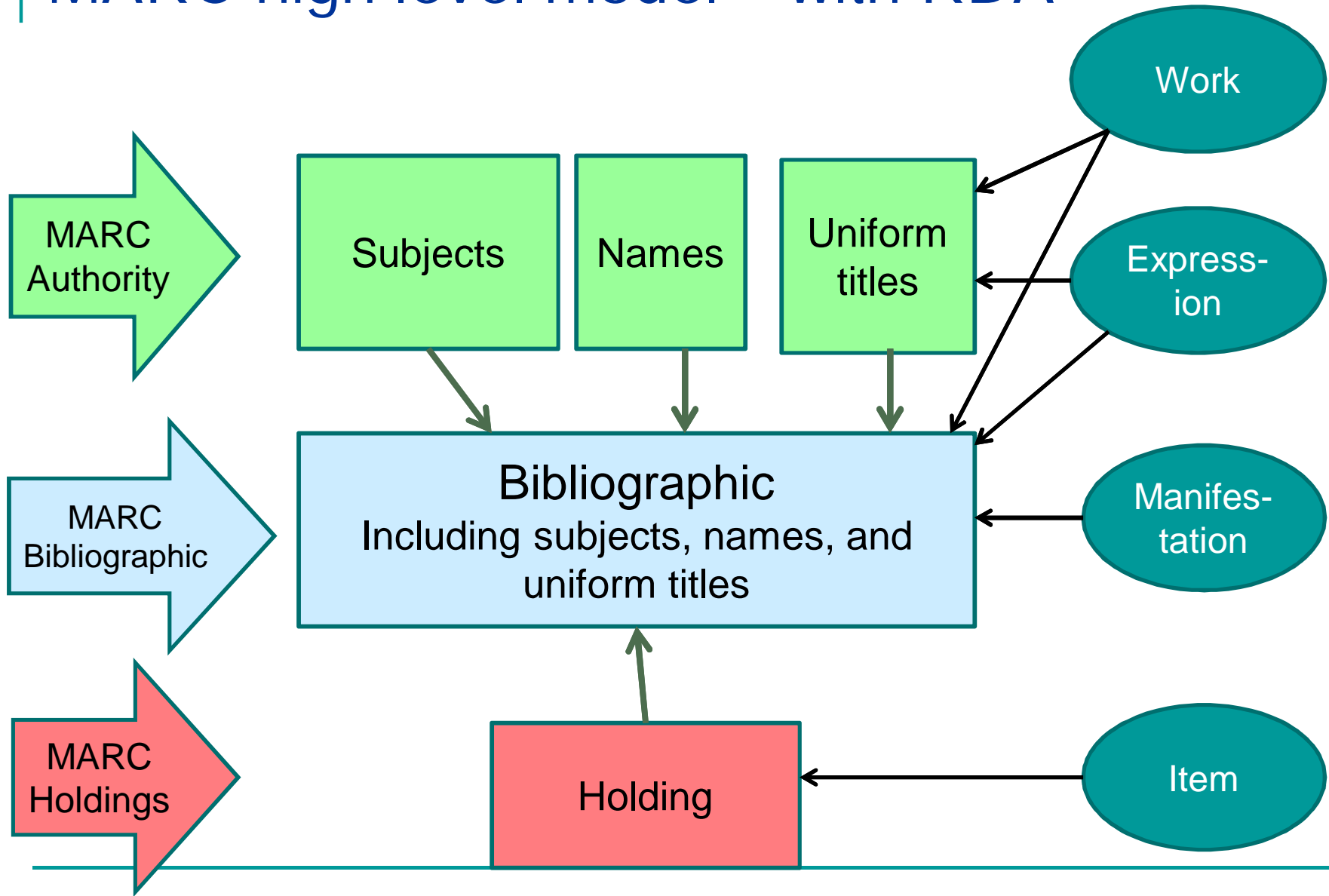 - "conceptual view + physical embodiment"

- **MARC Authority records**
  - Authorized forms of names and subjects -- and uniform titles

- **MARC Holdings records**
  - Monograph and serial items held

MARC high level model
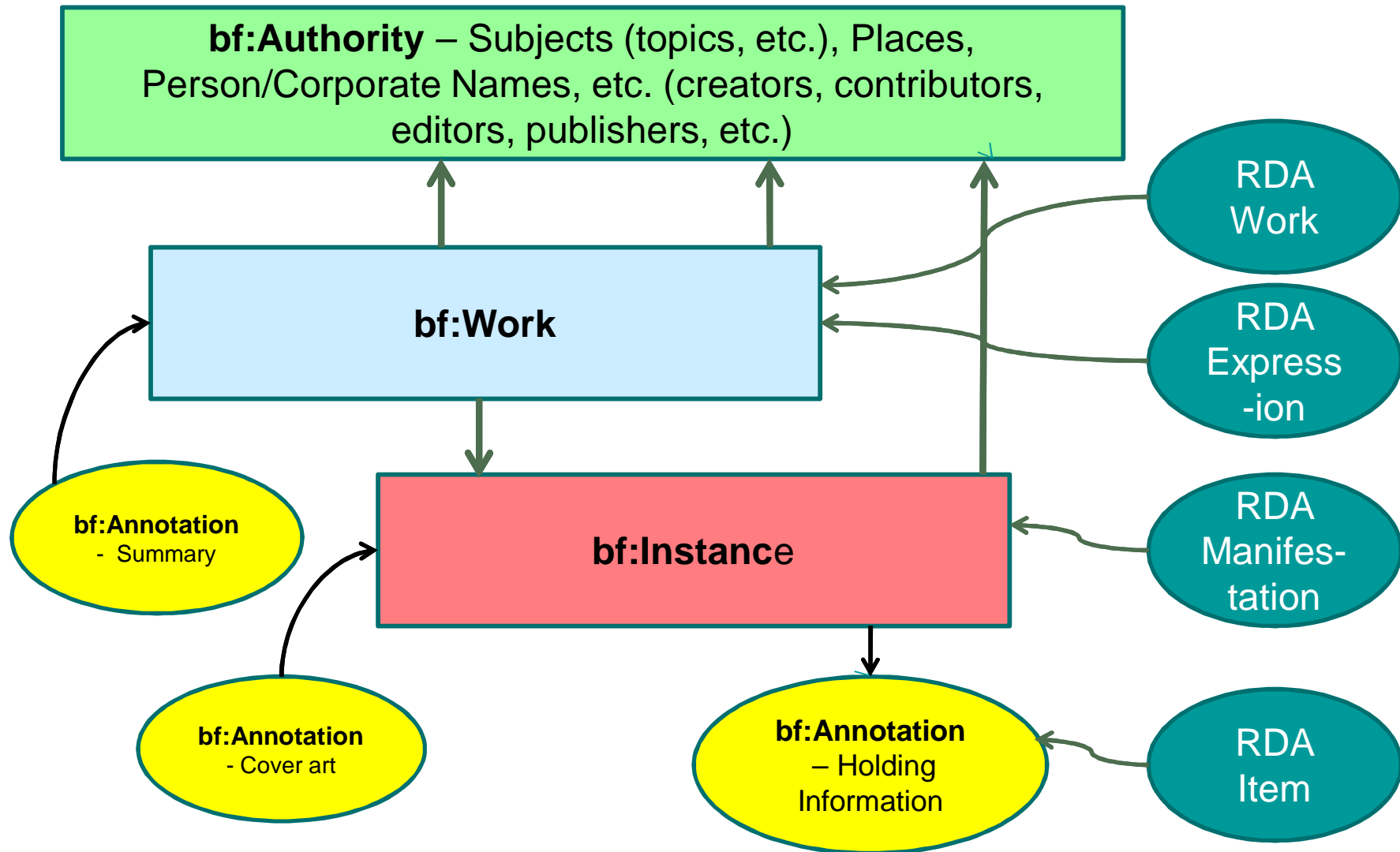
MARC high level model – with RDA

Current BIBFRAME (bf) high level model

- bf:Work - A <u>conceptual view </u>of a resource

- bf:Instance – An <u>embodiment</u> of a bf:Work

- bf:Authority – Key concepts with defined relationships to bf:Works and bf:Instances

- bf:Annotation – A flexible add-on to bf:Works and bf:Instances
    - For example: holding, cover art, summary, etc.

BIBFRAME high level model

bf:Authority – Subjects (topics, etc.), Places, Person/Corporate Names, etc. (creators, contributors, editors, publishers, etc.)

bf:Work

bf:Instance

bf:Annotation
- Summary

bf:Annotation
- Cover art

bf:Annotation
– Holding Information

RDA Work

RDA Express-ion

RDA Manifes-tation

RDA Item

Dealing with current data

How do we bring our current data forward?

- ## Current <u>Authority</u> data

  - ❑ Subjects and Names become bf:Authorities

  - ❑ Titles and Name/titles become bf:Works

    - ■ See references from Uniform Title Authorities become variant titles for bf:Work

    - ■ See also references from UniformTitle Authorities are separate Works and are linked via relationship properties and URIs

Result

- All Title and Name/title authority records converted to bf:Work descriptions

- Flexible model for relationships

  - RDA work to RDA expression relationships
    - expressed as bf:Work to bf:Work relationships
    - e.g., hasExpression and expressionOf
  - Other models: work to event relationships
    - expressed as bf:Work to bf:Work relationships
    - e.g., hasPerformance and performanceOf

MARC Bibliographic records to BIBFRAME

- ## Current Bibliographic data
  - Create bf:Work descriptions for all titles not represented by a Uniform title
    - Use the "title proper "as the "uniform title" for the bf:Work title

  - Combine the subject terms, subject classifications, and other work/expression data from the current bibliographic records with the bf:Work descriptions

- Current Bibliographic Data
  - Create bf:Instance descriptions including the transcribed title, publisher, extent, dimensions, ISBN, etc.
    - Do NOT include any of the elements that were included with the bf:Work description
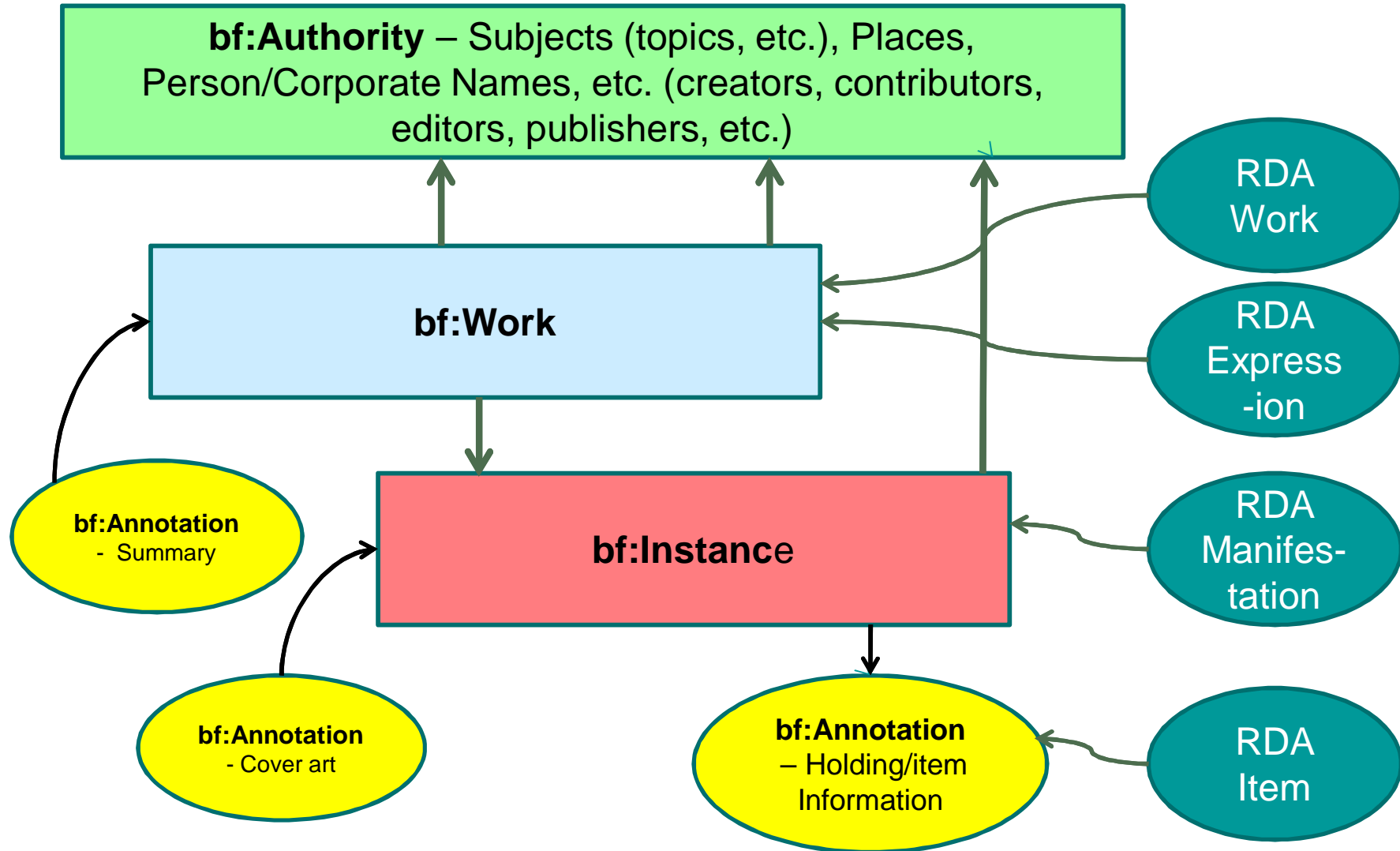- And finally
  - Convert or add URI links to elements wherever possible or logical

- **Result**
  - bf:Authorities for names and subjects

  - bf:Work descriptions for all bibliographic entities
    - Conceptual entities
  - bf:Work descriptions include subject data

  - bf:Instance descriptions for all manifestations of works and expressions
    - Physical embodiments

BIBFRAME high level model (again)

bf:Authority – Subjects (topics, etc.), Places, Person/Corporate Names, etc. (creators, contributors, editors, publishers, etc.)

bf:Work

bf:Instance

bf:Annotation - Summary

bf:Annotation - Cover art

bf:Annotation – Holding/item Information

RDA Work

RDA Express-ion

RDA Manifes-tation

RDA Item

Issues that will need consideration as a community

- **Linking out rather than bringing in data**
    - Both?
    - How keep up-to-date?
    - Trusted links?
- **Use of multiple authority files enabled**
    - Which ones, how many?
- **Specifying roles of agents more than in the past**
    - Role lists? Languages? Consistency? Hierarchies?

Community issues (continued)

- **Specifying relationships between works and instances more explicitly than in the past**
    - How much detail?   What lists to use?
- **Should all instances be split by carrier or just by different media?**
    - Paperback, hardback, library binding for books?
    - Print version, electronic version, audio version?
    - Vinyl 78, wire, vinyl 45, vinyl 33⅓, tape, CD, stream?
    - VCR, DVD, Blueray, cassette, reel?
- **Can we develop authorities for more entities?**
    - Publisher names? Publication places? Maintenance?

And can we have more:

- **For catalogers:**
  - Systems with input lookups?
  - Autofills?
  - Automatic finding of URIs?
  - Other cataloger helpers?
- **For end users**
  - Rich interlinking of resources

Information about BIBFRAME

www.loc.gov/bibframe

Bibliographic Framework Initiative

Initiated by the Library of Congress, BIBFRAME provides a foundation for the future of bibliographic description, both on the web, and in the broader networked world. This site presents general information about the project, including presentations, FAQs, and links to working documents. In addition to being a replacement for MARC, BIBFRAME serves as a general model for expressing and connecting bibliographic data. A major focus of the initiative will be to determine a transition path for the MARC 21 formats while preserving a robust data exchange that has supported resource sharing and cataloging cost savings in recent decades.

General Information

> Frequently asked questions
> Webcasts and presentations
> Contact us
> Document archive

Implementation & Testing

> BIBFRAME testbed
> Implementation register
> BIBFRAME tools and downloads
> Demonstration datasets

Model & Vocabulary

> BIBFRAME model
> BIBFRAME vocabulary
  - Vocabulary description *(updated)*
  - Terminology & conventions
> BIBFRAME draft specifications
  - BIBFRAME Profiles (new)
  - BIBFRAME Authorities *(updated)*
  - BIBFRAME Relationships (new)
> Analyses
  - AV Modeling Study (new)
> Use cases
> MARC mapping *(coming soon)*

What's New

Latest webcast

BIBFRAME Update Forum at ALA Annual Conference in Las Vegas, Nevada is now available (29 June 2014).

View webcast

New Model Analysis Available

BIBFRAME AV Modeling Study: Defining a Flexible Model for Description of Audiovisual Resources

BIBFRAME Editor Now Available

Learn more »

- **Join the discussion**
  - bibframe@listserv.loc.gov

Thank you!