

A futuristic tunnel with a ceiling of blue lights and silhouettes of people walking. The tunnel is illuminated with a dense array of small, bright blue lights that create a starry, tunnel-like effect. The ceiling is curved and the lights are arranged in a grid pattern. The floor is dark, and the walls are also dark. In the distance, a group of people is walking away from the camera, their silhouettes clearly visible against the bright lights. The overall atmosphere is one of a high-tech, futuristic environment.

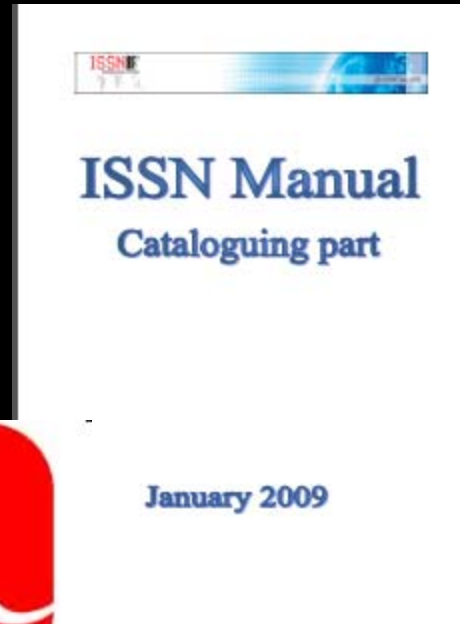
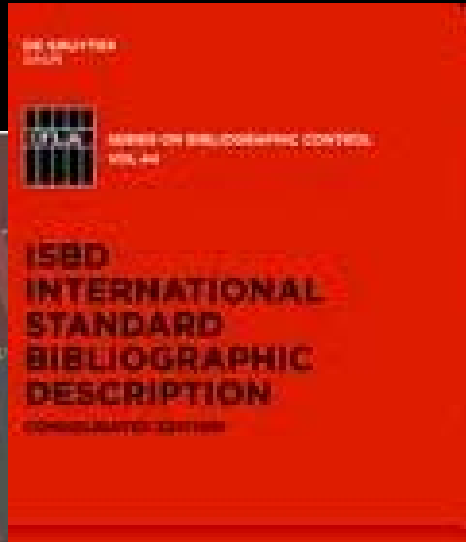
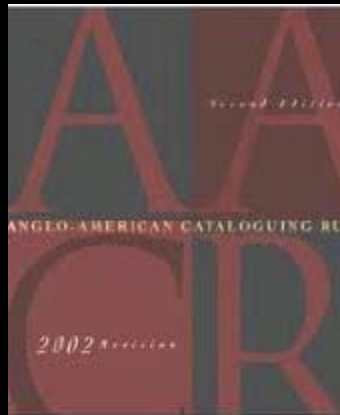
Bibliographic Transformation and the ISSN

**Regina Romano Reynolds
Director, U.S. ISSN Center
Library of Congress**

ISSN
INTERNATIONAL CENTRE

Some standards used in the ISSN Network

[Home](#) : [What is an ISSN?](#) : [Requesting an ISSN](#) : [The ISSN products](#) : [The ISSN worldwide](#) : [Projects](#) : [Doc](#)



ISSN use of library standards

Benefits

- One record used for ISSN registration and national bibliography
- Standardized records added to the ISSN Register more easily
- ISSN records more easily used in library catalogs
- ISSN records raise library awareness of ISSN and the ISSN Network

Limitations

- ISSN is used by non-library communities that do not use Library standards
- Library standards are not used in the Web environment
- ISSN data not fully integrated into the Web environment
- ISSN Network hidden to information seekers

“Ideally, ISSN data should integrate fully with other resources on the Web, creating greater visibility for ISSN and bringing the ISSN Network services to information seekers.”

Paraphrase of a recommendation from
The Library Linked Data Incubator Group

FRBR

Functional Requirements for Bibliographic Records

- Conceptual model of the bibliographic universe
- Hierarchy of concepts: work, expression, manifestation, item
- Many library catalogs are being re-designed to accommodate FRBR structures and displays

A Bibliographic Description Set

Slide by Diane Hillman

Work

Author=naf1 234567
Title=My Life
Subject=saf444455

Expression

Title=Mi Vida
Language=sp

Manifestation

Publisher=naf22223333
Publication Date=2005
Extent=267 pages

Item

Location=577577
Call Number=CT25.S65 2005

Name ID=naf1234567
Display Name Direct Order=Joe Smith
Display Name Inverted Order=Smith, Joe
Surname=Smith
Forename=Joe
Birthdate=19481228

Subject ID=saf444455
PrefLabel=Autobiographies
AltLabel=Life Stories

Language Code=sp
Language Name=Spanish

Name ID=naf22223333
Display Name=Ego Press

Location ID=577577
Display Name=Central University,
Annex Library

RDA

Resource Description and Access

- Based on IFLA's International Cataloging Principles (ICP)
- Based on IFLA's FRBR principles
- Not limited to any metadata format
- Defined element set and vocabularies published in the Open Metadata Registry to enable use as Linked Data




Element Sets: Show detail for RDA Group 1 Elements

Detail

Elements

History

Maintainers

Label 	Type	URI 	Status	Updated 
Title	property	.../Elements/title	New-Proposed	2009-08-09 21:46
Edition statement	property	.../Elements/editionStatement	New-Proposed	2009-08-13 20:25
Place of production	property	.../Elements/placeOfProduction	New-Proposed	2009-08-09 21:14
Date of production	property	.../Elements/dateOfProduction	New-Proposed	2009-08-09 21:29
Copyright date	property	.../Elements/copyrightDate	New-Proposed	2009-08-10 21:42
Identifier for the manifestation	property	.../identifierForTheManifestation	New-Proposed	2009-08-11 16:48
Publisher's number for music	subproperty	.../publishersNumberForMusic	New-Proposed	2009-08-20 19:10
Plate number for music	subproperty	.../Elements/plateNumberForMusic	New-Proposed	2009-08-20 19:12
Media type	property	.../Elements/mediaType	New-Proposed	2009-08-20 16:46
Carrier type	property	.../Elements/carrierType	New-Proposed	2009-08-10 21:44
Extent	property	.../Elements/extent	New-Proposed	2009-07-09 19:03



open metadata registry

Supporting Metadata Interoperability

Key title	subproperty	.../Elements/keyTitle	New-Proposed	2009-08-20 17:49
Abbreviated title	subproperty	.../Elements/abbreviatedTitle	New-Proposed	2009-08-19 19:04
Production statement	property	.../Elements /productionStatement	New-Proposed	2009-08-09 21:09
Parallel place of production	property	.../parallelPlaceOfProduction	New-Proposed	2009-08-09 21:25
Producer's name	property	.../Elements/producersName	New-Proposed	2009-08-09 21:19
Parallel producer's name	property	.../parallelProducersName	New-Proposed	2009-08-09 21:23
Place of publication	property	.../Elements/placeOfPublication	New-Proposed	2009-05-21 19:43
Parallel place of publication	property	.../parallelPlaceOfPublication	New-Proposed	2009-08-20 16:33
Publisher's name	property	.../Elements/publishersName	New-Proposed	2009-08-13 21:01
Parallel publisher's name	property	.../parallelPublishersName	New-Proposed	2009-08-20 16:31
Date of publication	property	.../Elements/dateOfPublication	New-Proposed	2009-08-13 21:03

Implementation of RDA

- Coordinated implementation is planned among AACR2 national libraries and others
- RDA will be implemented in the U.S. using MARC 21
- U.S. national libraries' target implementation date: March 31, 2013

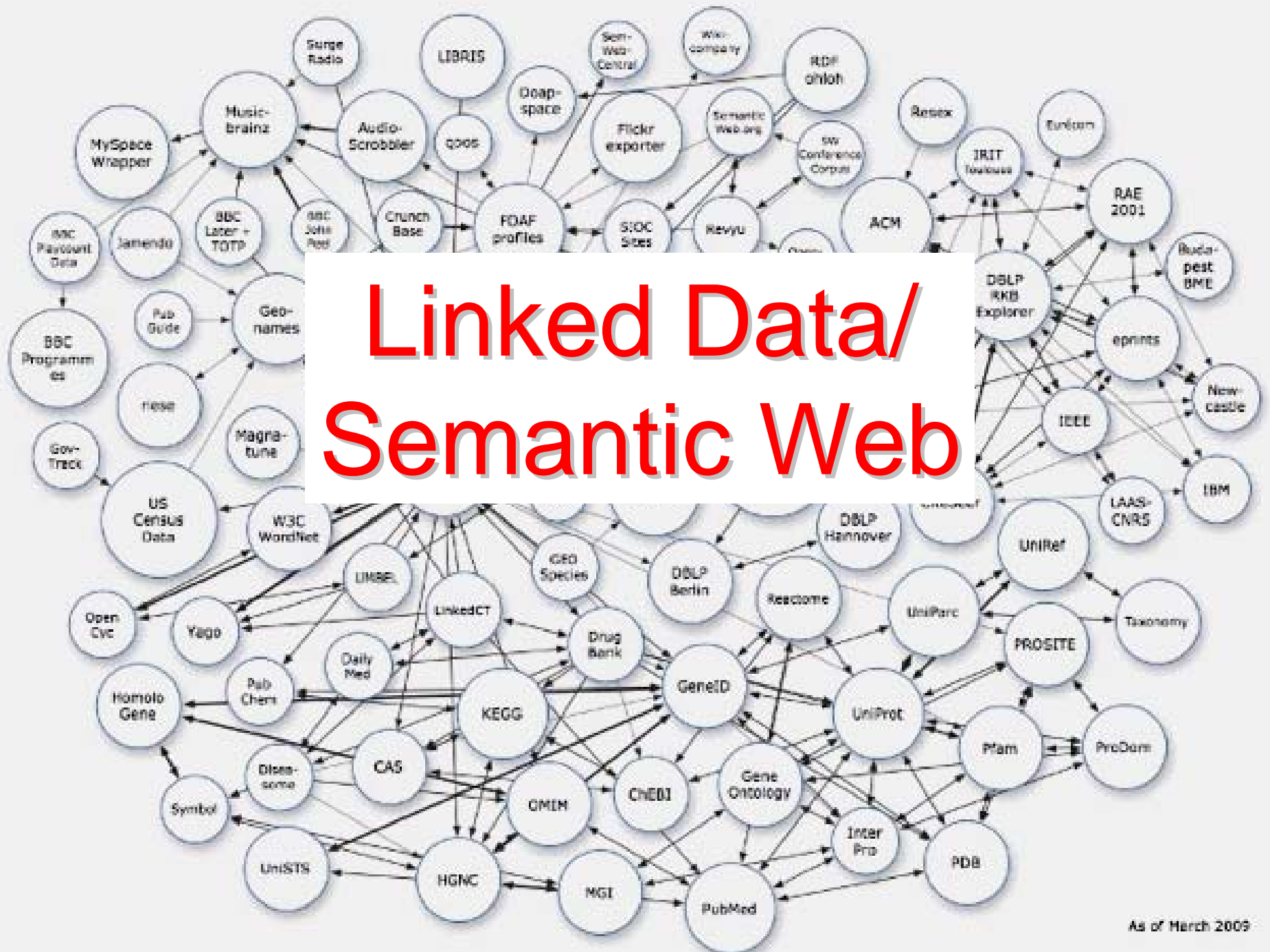
RDA Target Day 1

MARCH

2013

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Linked Data/ Semantic Web



Linked Data/Semantic Web

“It is about making links so that a person or machine can explore the Web of data. With linked data, when you have some of it, you can find other, related data.”

Tim Berners-Lee

What if we could set free the bound elements?



The screenshot shows the ISSN International Centre website. At the top, there is a logo for ISSN International Centre and a banner for 'THE ISSN PORTAL'. Below the banner are navigation tabs: Home, Quick Search, Combined Search, Expert Search, and E. A search bar is present with a dropdown menu set to 'Labelled Record' and a 'Submit' button. Below the search bar are links for 'first record | previous record | next record | last record' and 'full | marc'. The main content area displays 'Record 1 of 4' and a search result for ISSN 1819-1819. The result is presented as a list of fields and their corresponding values.

You searched ISSN database - ISSN: 1819-1819	
ISSN	1819-1819
ISSN-L	0256-8888
Medium	Computer remote
Key Title	The ISSN portal
Publisher	Paris : ISSN International Centre
Country of publication	INTERNATIONAL
Dates of publication	2006 / 9999 current
Issuing body (as on the piece)	ISSN International Centre
Frequency	Continuously updated
Type of publication	Updating database
Language	Multiple languages
Title script	Extended roman
Title proper	The ISSN portal
Variant title	The International Standard Serial Number portal
Abbreviated key title	ISSN portal







Subjects

Title

Related works

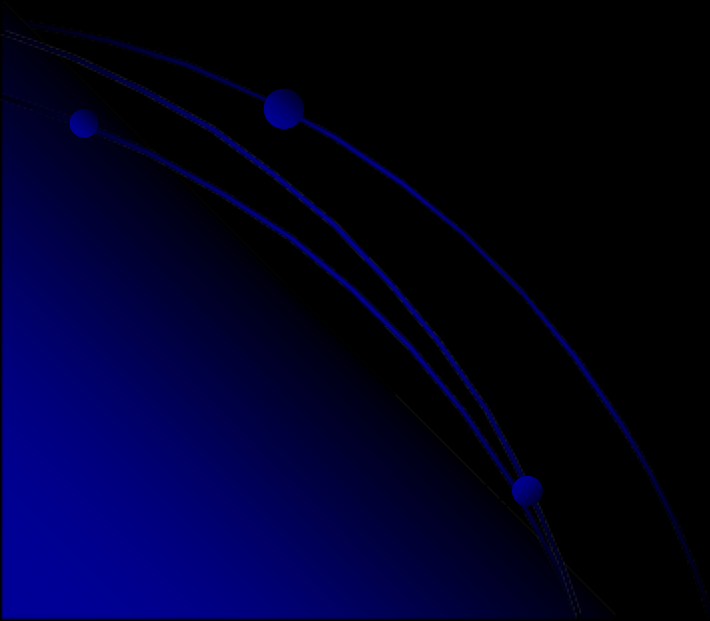
Creator

Translations

Dates

Metadata let loose:

TO COMBINE, LINK, EXPAND!

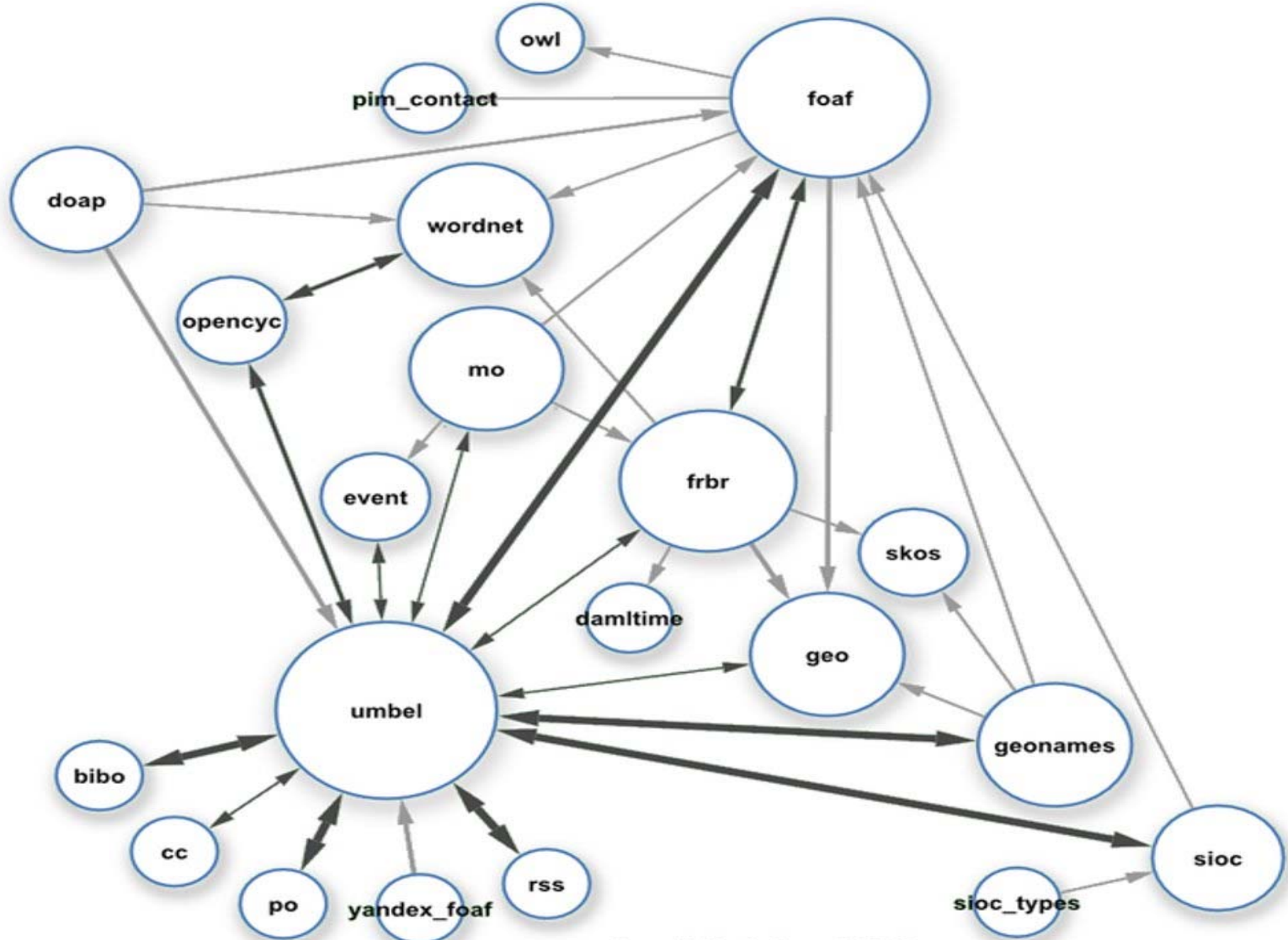




The "Item" of the Future



a series of overlapping collections, with links...



As of October 2008

MARC
1968 - 20??
GONE BUT NOT
FORGOTTEN

www.tombstonebuilder.com

The image depicts three grey, upright tombstones in a row on a brownish ground. Each tombstone has a decorative arch at the top. The first tombstone on the left is inscribed with 'MARC' and 'Not flexible or extensible'. The middle tombstone is inscribed with 'MARC' and 'Does not work well on the Web'. The largest tombstone on the right is inscribed with 'MARC' and a list of two bullet points: 'Does not work well with RDA' and 'Only used by the library community'. In the foreground, there are two small, rectangular, light blue blocks on the ground, one to the left and one to the right of the first two tombstones. The background is a simple green and blue gradient.

MARC

**Not
flexible or
extensible**

MARC

**Does not
work
well on the
Web**

MARC

- **Does not work well with RDA**
- **Only used by the library community**

LC Bibliographic Framework Initiative

- An environment, not a single new standard
- Many standards could work possibly a single communications format
- Working Group on the Future of Bibliographic Control recommendation
- RDA Test Recommendation

Framework Requirements

- Accommodates multiple content rules and data models
 - Compatible with MARC-based records
 - Maintains MARC until no longer necessary
 - Provides for transformation from MARC 21 to a new bibliographic environment
- Handles textual data, linked data with URIs, or both
- Provides for data that accompanies or supports bibliographic description
- Includes communications format tagging, record input conventions, system storage manipulation
- Considers needs of all types and sizes of libraries

Focus on Web environment

Linked Data
XML
RDF

Follow Standard Library Protocols

- Have the facts straight
- Make decisions based upon evidence and experience
- Bring together diverse and recognized experts in the field
- Remain open to many perspectives
- Check constantly for new ideas and innovations
- Implement a plan that meets the users' needs
- Invest in resources of all kinds wisely



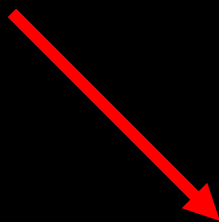
**Roberta Shaffer, LC
Associate Librarian
for Library Services**

Bibliographic Framework Development

- Collaborative approach with stakeholder involvement
- Advisory Group + Technical Group being formed. Possible technical subgroups
- Funding being sought
- Listserv:
 - <http://listserv.loc.gov/listarch/bibframe.html>

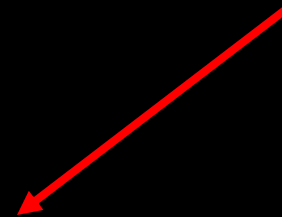
In a new environment,
what can the ISSN become?







I  SN



ISSN Portal:
future gateway
to
Linked Data



The future has no limits



A long, perspective view of a futuristic tunnel. The ceiling is a curved, ribbed structure illuminated with bright blue light. The walls are also illuminated with blue light, and there are railings on both sides. The floor is dark and reflective. The overall atmosphere is sleek and modern.

“The best way to predict the future is to invent it.”

Alan C. Kay

Thank you / Merci!

rrey@loc.gov

