A Year of Practical Learning

Zepheira's 2014 BIBFRAME Perspectives

Awareness, Assessment, and Action

Jeff Penka
Executive Director, Product and Channel Development
jeffpenka@zepheira.com
http://linkedin.com/in/jeffpenka

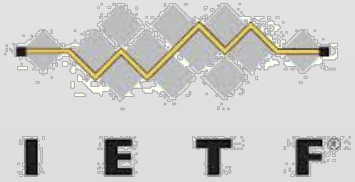
Building on BIBFRAME's Promise:

Reflecting Rich Assets (Vocabularies)
Providing Translation Keys (Profiles)

Hi, We are Zepheira

We are a Passionate, Experienced, Strategic, Technical, Entrepreneurial Team.
We love Libraries, Data, The Web, Standards, Open Source, and Learning.

The team's background:



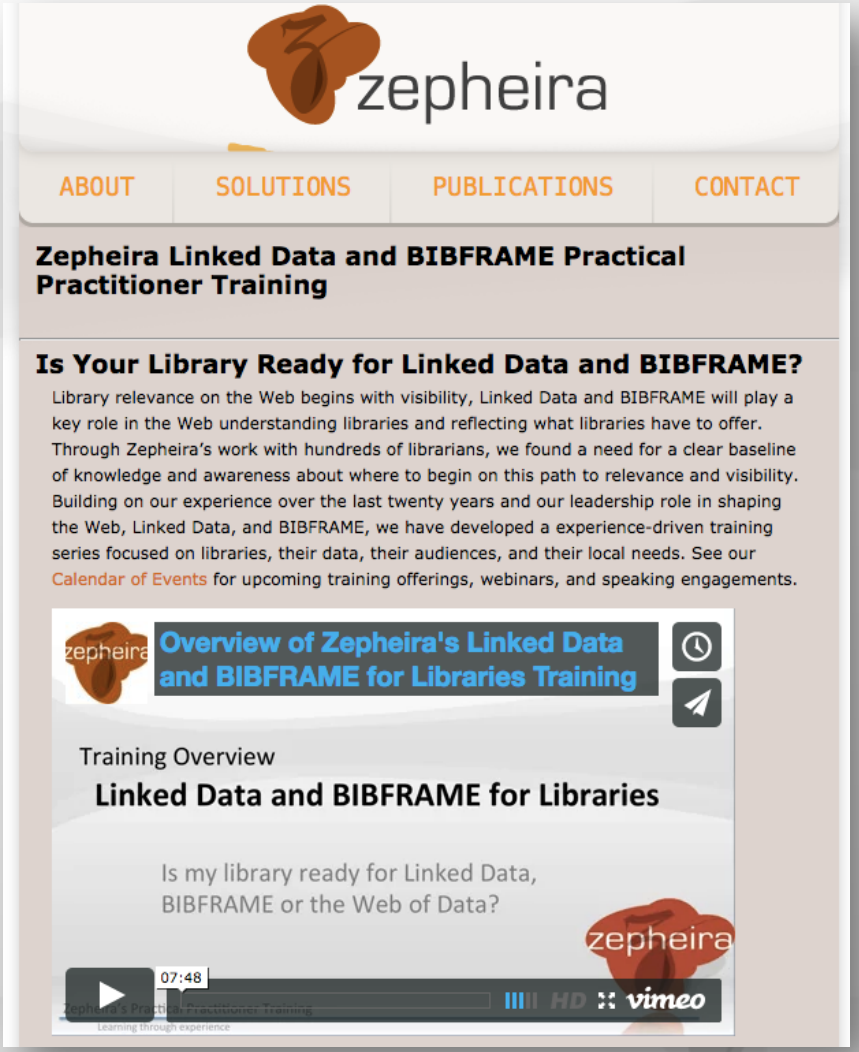
http://linkedin.com/company/zepheira/
http://zepheira.com/

Our experiences in the last 6 months

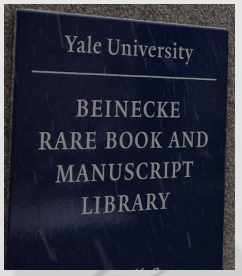
1. **Awareness** through Practical Practitioner Training (over 200 participants)
2. **Assessment**s and Transformation (10+ groups)
3. Large Scale **Activities** (10+ projects)
   - National Library Board of Singapore
   - MESH RDF (beta) @ NLM
   - Denver and Worthington Public Libraries
   - BIBFLOW
     - Converting Workflows to a Linked Open Data Eco System
   - Founding Sponsor of the Libhub Initiative
     - Bringing groups together around library visibility

Practical Practitioner Training

- Online Course
- 4-5 weeks
- Focused on Linked Data, BIBFRAME, & Libraries
- Interactive – Cohort & Z Team
- Your Data, our Tools
- Alumni Community



Practical Practitioner Community



http://zepheira.com/training

Who is interested & engaging

Broad Cross Section of Types

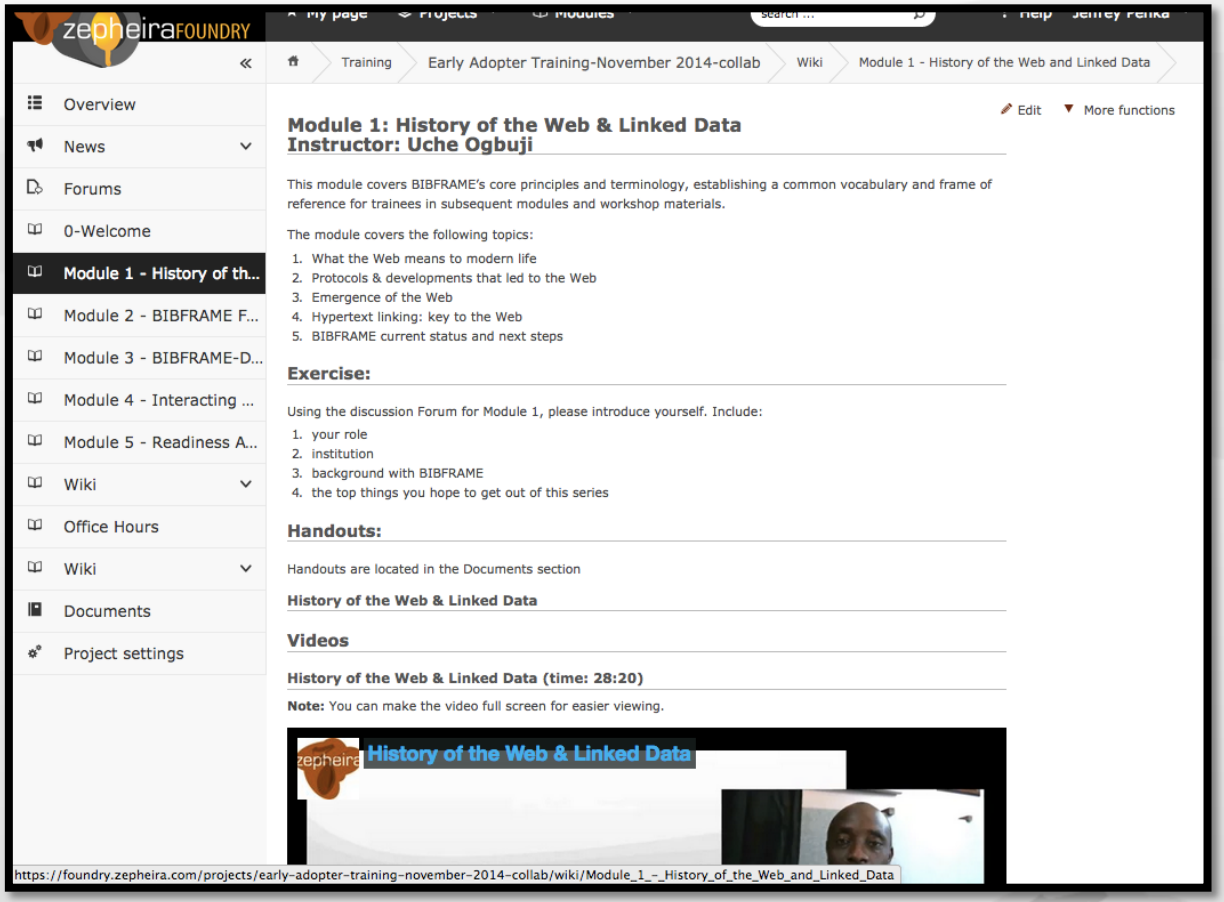
- Academic
- Research
- Rare Book & Manuscript
- Music
- Public
- National
- Special
- Law

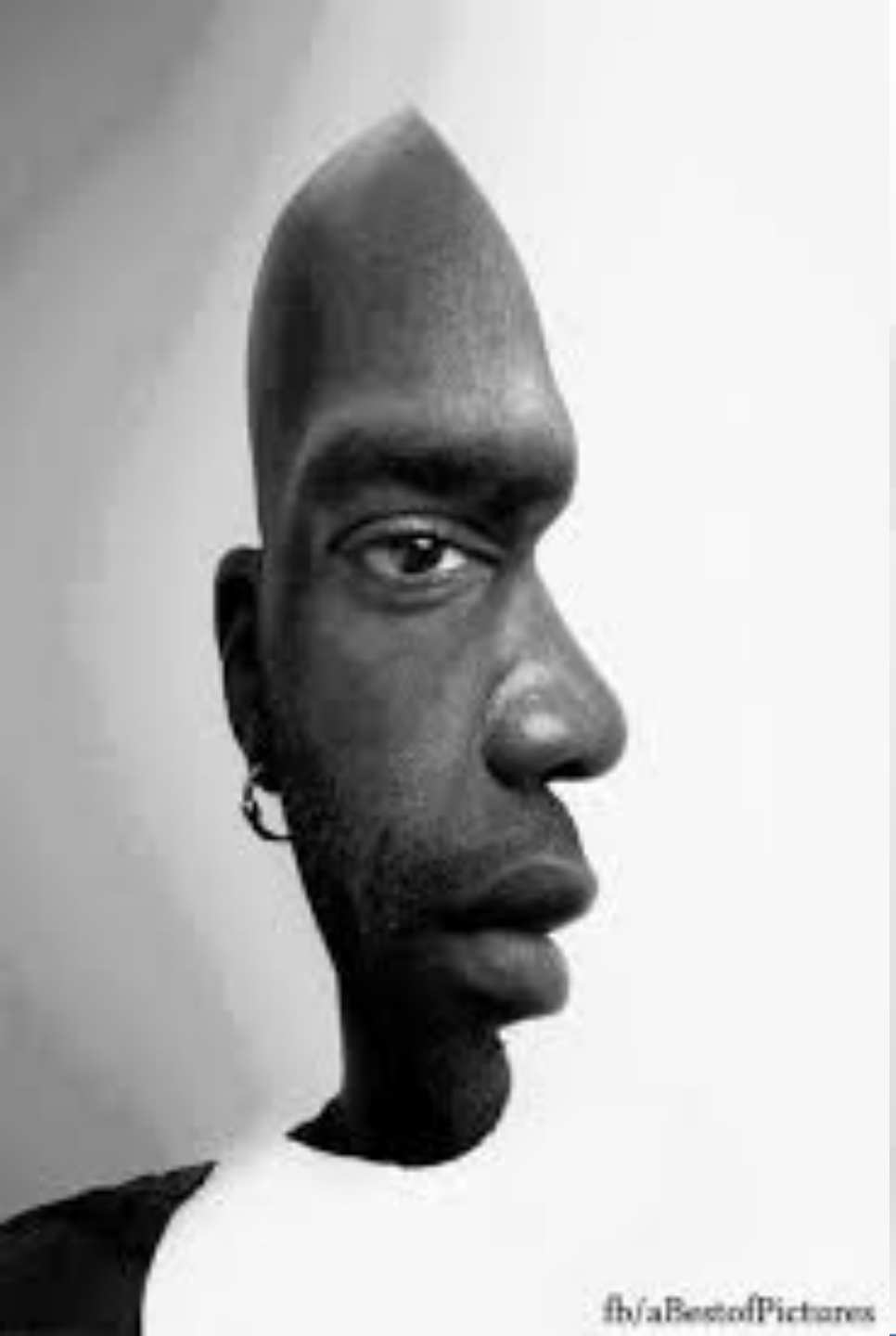
Many Roles Coming Together

- Technical Services
- Metadata Specialists
- Public Services
- Systems
- Web Team
- Leadership Teams

Foundational, Practical Curriculum

1. History of the Web and Linked Data
2. BIBFRAME Foundations
3. BIBFRAME Data Modeling Essentials
4. Interacting with BIBFRAME & Profiles with Zepheira's Tools
5. Readiness Assessment, Change Management, and Governance





How do we engage with such a variety of perspectives?

Working to harness enthusiasm and learn together through iteration

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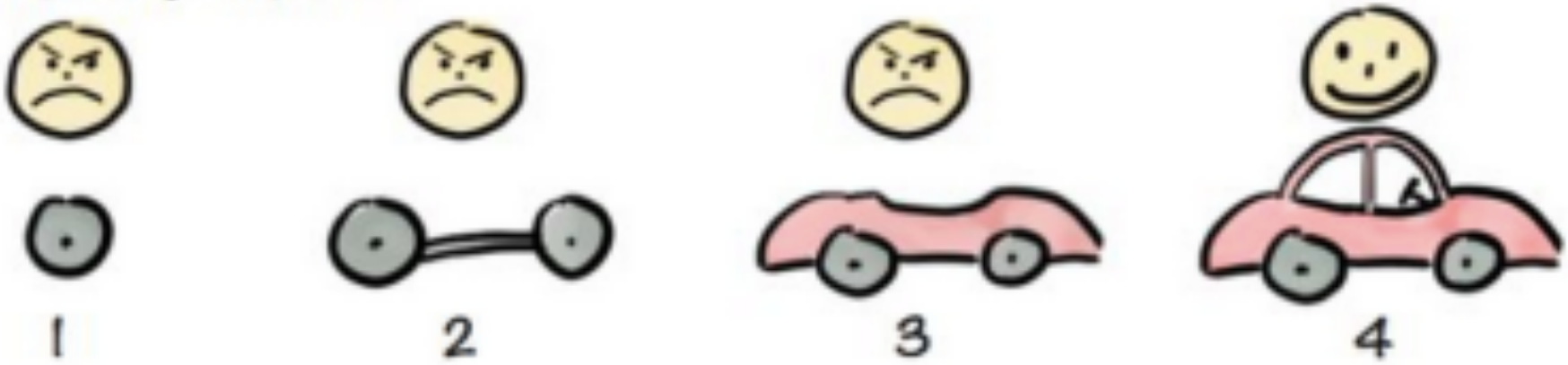
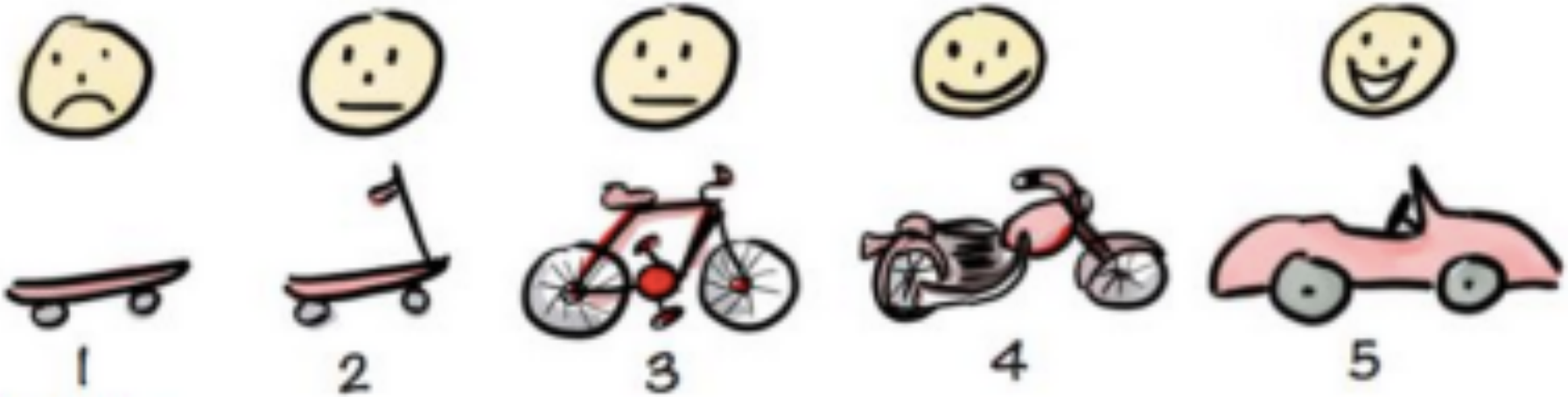
Not like this....



Like this!



Henrik Kniberg

Um für uns zu kommunizieren , müssen wir auf einem gemeinsamen Vokabular zu benutzen zustimmen.

In English, please

"In order for us to communicate we need to agree on a shared vocabulary."

We need a way to:

1. Translate our concepts (Vocabularies)
2. Represent them meaningfully (Profiles)

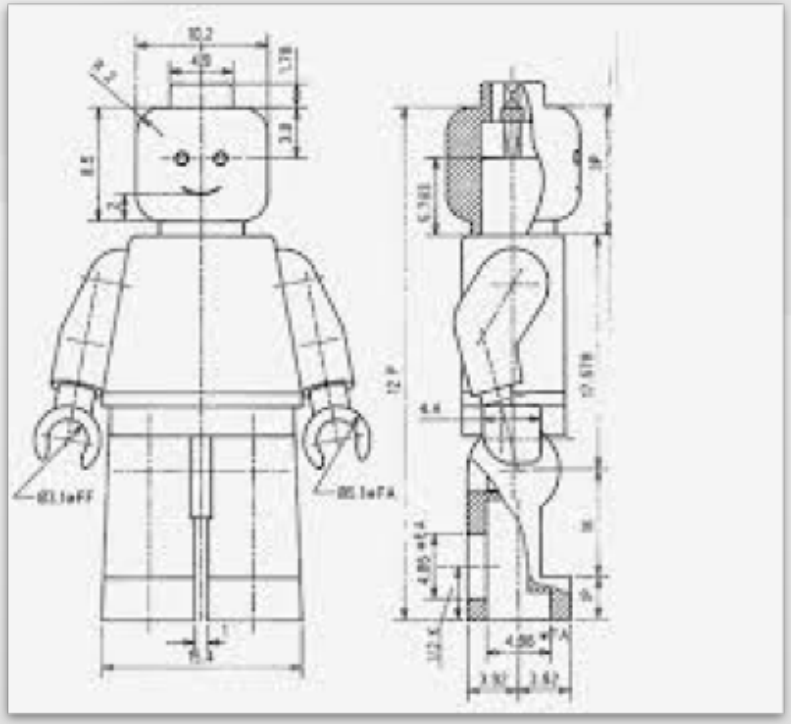
Unifying **Vocabularies**

- **BIBFRAME** (from the Library perspective)
  - Extensible replacement for MARC
  - “The Initiative aims to re-envision and, in the long run, implement a **new bibliographic environment** for **libraries** that makes **"the network"** central and makes interconnectedness commonplace.”
- **Schema.org** (from the Web perspective)
  - Bib Extend - W3C group – group focused on discussion and preparation of proposals to extend schema.org for improved representation of bibliographic information markup and sharing.

A Descriptive Blueprint

- BIBFRAME common model
  - **flexible**, **extensible**, **designed to accommodate** the various needs of our community.
- Recognize creative tension between past and future

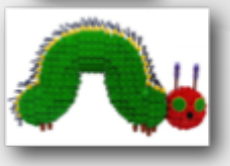
- **Vocabularies** capture key elements
- **Profiles** are a blueprint for a specific community or entity description



Vocabularies

- What do you have?
- What are your goals?
- What already exists?
- What makes you unique?
- Test, Review, Iterate, Repeat

Combining Profiles

- BIBFRAME Lite
  - Series + =
  - Monograph + = 
    - RBMS + =
  - A/V (Music) + =
  - VRA + =
  - ISAD(G) + =

As a cornerstone of Zepheira's Practical Practitioner series, we believe participants need to get hands on with their own data. To that end, our training includes access to an introductory set of utilities to guide participants through data import, analysis and end user discovery.

The following MARC diagnostics and BIBFRAME transformation service is provided to participants of this training curriculum. To get started link to, paste in, or upload a MARC XML file (up to 100 records). Feel free to add a 'title' to the data to help describe what you've uploaded.

Load MARC Data from a URL | Pasted MARC Text | Upload MARC File

Title (optional)

URL

Submit URL

Advanced Settings (click to learn more)

Don't have access to a set of MARC records? Here are some examples others have uploaded. Drag or copy the following links to the URL Input form above to transform these records.

- George Washington sample collection (small)
- National Library of Medicine sample collection (medium)
- George Mason University DVD Backstage sample (large)
- Sample Rare Book / Manuscript collection (small)
- Sample Music collection (small)

Excellent! The transformation and diagnostics process was successful. Feel free to bookmark this page to come back to it in the future. Now that you have, you're ready to begin!

1. To better understand your uploaded data first look at the **MARC Field Diagnostics Viewer**
2. Now take a look at the **BIBFRAME Resource Viewer** to help better understand the MARC Records to BIBFRAME Resources transformation process.
3. And finally here is a **BIBFRAME Work-focused Navigator** or a **BIBFRAME Collection Navigator** to illustrate how your data might look like in a traditional discovery application.
4. Don't forget to **Download your RDF BIBFRAME data**
5. And since the future direction of these tools rely on your input **Help Shape What Comes Next**

Summary

- Processing started on **2014-12-09 at 11:10**
- **11** MARC records analysed in **1.12** seconds
- Input Format:
  - MARC XML
- Output Format(s):
  - Base BIBFRAME RDF (RDF/Turtle)
  - MARC Diagnostics (JSON)
  - Linked Data Discovery (JSON)

Observations (Example)

- **11** MARC records converted to **1214** BIBFRAME Resources
- **230** BIBFRAME Resources folded indicating this data is **moderately connected**
- **4** MARC tags did not match applied transformation rules indicating this data is **moderate candidate** for **custom rule** design
- **15** MARC tags identified as local extensions

MARC FIELD DIAGNOSTICS VIEWER

GENERATED 2014-12-09 AT 11:10 FROM 11 RECORDS USING CURRENT PIPELINE VERSION 0.5.1

Search

MARC Field Grouping

- 23 0XX
- 14 5XX
- 8 9XX
- 6 3XX
- 4 2XX
- 4 6XX
- 4 7XX
- 2 1XX
- 2 8XX
- 1 4XX

MARC Field

- 001
- 005
- 006
- 007
- 008
- 010

68 Fields

sorted by: count; then by... • ○ grouped as sorted

1. MARC Field 700 : Added Entry - Personal Name **61**

   - 700$a : Personal name **61**
   - 700$d : Dates associated with a name **23**
   - 700$e : Relator term **5**
   - 700$t : Title of a work **2**
   - 700$0 : Authority record control number **1**
   - 700$4 : Relator code **28**
   - 700$6 : Linkage **5**

2. MARC Field 650 : Subject Added Entry - Topical Term **38**

   - 650$a : Topical Term **38**
   - 650$v : Form subdivision **15**
   - 650$x : General subdivision **4**
   - 650$y : Chronological subdivision **2**

BIBFRAME RESOURCE VIEWER

GENERATED 2014-12-09 AT 11:10 FROM 11 RECORDS USING CURRENT PIPELINE VERSION 0.5.1

Search

Type

- 65 Person
- 37 Topic
- 19 Organization
- 16 Place
- 13 Genre
- 13 Work
- 12 Agent
- 12 ProviderEvent
- 11 Instance
- 2 Series

200 Resources

sorted by: labels; then by... • ○ grouped as sorted

1 • 2 • 3 … 10 Next »

1. gnENa-Z7 (link)
   label: gnENa-Z7
   type: Person
   URI: https://linksmith.ze ... umYJ9f/item#gnENa-Z7
   sf-a: Towers, Derek.
   bf-id: gnENa-Z7
   name:Towers, Derek.

2. VqIYpTxj (link)
   label: VqIYpTxj
   type: Topic
   URI: https://linksmith.ze ... umYJ9f/item#VqIYpTxj
   sf-a: Theology, Doctrinal
   bf-id: VqIYpTxj
   name: Theology, Doctrinal
   chronologicalSubdivision:Middle Ages, 600-1500.
   sf-y: Middle Ages, 600-1500.
   sf-x: History
   generalSubdivision: History

12 Agent
12 ProviderEvent
11 Instance
2 Series

2. VqIYpTxj (link)

label:	VqIYpTxj
type:	Topic
URI:	https://linksmith.ze ... umYJ9f/item#VqIYpTxj
sf-a:	Theology, Doctrinal
bf-id:	VqIYpTxj
name:	Theology, Doctrinal
chronologicalSubdivision:	Middle Ages, 600-1500.
sf-y:	Middle Ages, 600-1500.
sf-x:	History
generalSubdivision:	History

3. xl5kLo7O (link)

label:	xl5kLo7O
type:	Instance
URI:	https://linksmith.ze ... umYJ9f/item#xl5kLo7O
bf-id:	xl5kLo7O
dimensions:	4 3/4 in.
additionalPhysicalForm:	Also available online.
creditsNote:	Producer and director, Derek Towers.
publication:	Kf1v89np
title:	The Medieval mind
resourceType:	MovingImage
titleStatement:	BBC Education & Training.
extent:	5 videodiscs (248 min.) :
systemDetails:	DVD.
otherPhysicalDetails:	sd., col. ;
instantiates:	sNIITIWd

BIBFRAME PROFILE COMPARISON

GENERATED 2014-12-09 AT 11:10 FROM 11 RECORDS USING CURRENT PIPELINE VERSION 0.5.1

DEFAULT PROFILE • RBMS PROFILE • MUSIC PROFILE

13 Works

1. **Zhu fu.**

   Creator(s) Lu, Xun, 1881-1936.

2. **The Chinese bubble predictions and perspectives / director & research, Floris-Jan van Luyn.**

   Contributor(s)
   - VPRO Backlight (Firm)
   - Jianmao, Wang.
   - Xie, Andy, 1962-
   - Luyn, Floris-Jan van.
   - Films Media Group.
   - Lun, Feng.

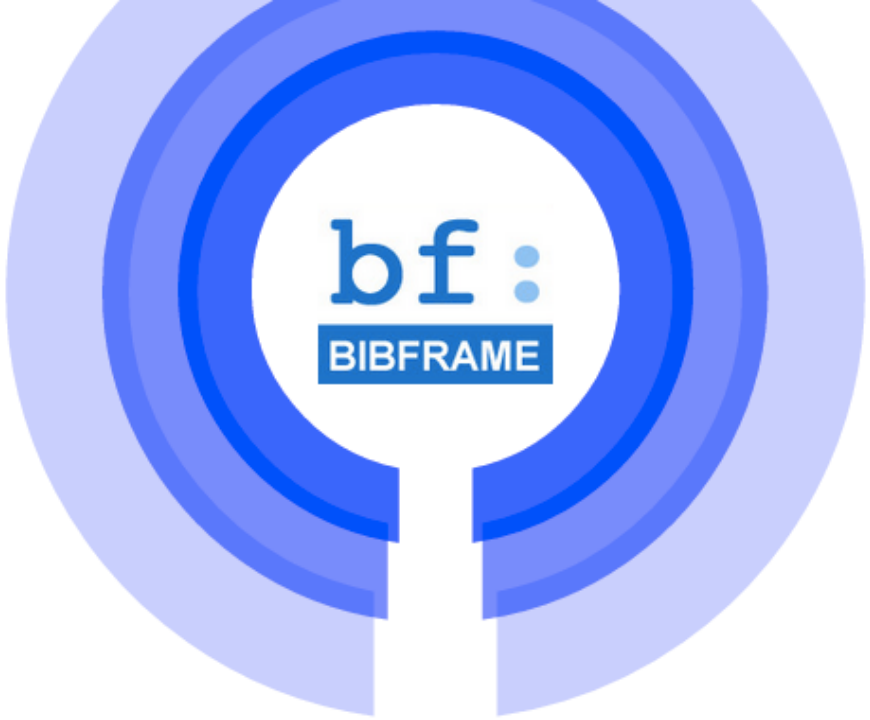
   Subject(s)
   - Entrepreneurship > China.
   - Documentary films.
   - Businesspeople > China.
   - Real estate development > China.
   - Lun, Feng.

   Summary The biggest real estate developer in the world is - unsurprisingly - Chinese. Property tycoon Feng Lun is convinced opportunities are equal for all in China. Other nuanced views come from a taxi driver, a car salesman, and construction worker, as well as from Dr. Wang Jianmao of the China Europe International Business School and

COMING
SOON

The following BIBFRAME Lite and Modular Vocabulary navigator is not complete and for private demonstration purposes only. This work reflects Zepheira's use of modular, layered vocabulary management to support their Linked Data product offerings. These vocabularies are not intended to replace or compete with other Linked Data namespaces. Our hope is by sharing this others may consider similar practices for effective vocabulary management and distributed governance.

BIBFRAME Lite + None selected → Go !



BIBFRAME Lite + RDA → Go !

Bibliographic
- [x] RDA
- [ ] Serials
- [ ] Monograph

Special Collections
- [ ] RBMS
- [ ] Audio / Visual
- [ ] VRA

Archives
- [ ] ISAD(G)

BIBFRAME Lite :: Navigator

About Contact

Home / Vocabularies

Key

- Lite
- RDA
- RBMS
- Audio / Visual

Suggested Starting Points

Work Instance Event Authority Annotation

All :: Classes

authority collection digital image family resource work

person digital audio annotation organization meeting

topic instance event physical electronic digital text

provider Event place agent

All :: Properties

title name creator member of related accessibility note

subject credits note local reference genre extent

succeeds audience authority link format size

expression of contributor where media category isbn

Key

instance :: Class

<http://bibfra.me/vocab/lite/Instance> ⇄
<http://bibframe.org/vocab/Instance>

Carrier or instantiation associated with a Conceptual Work

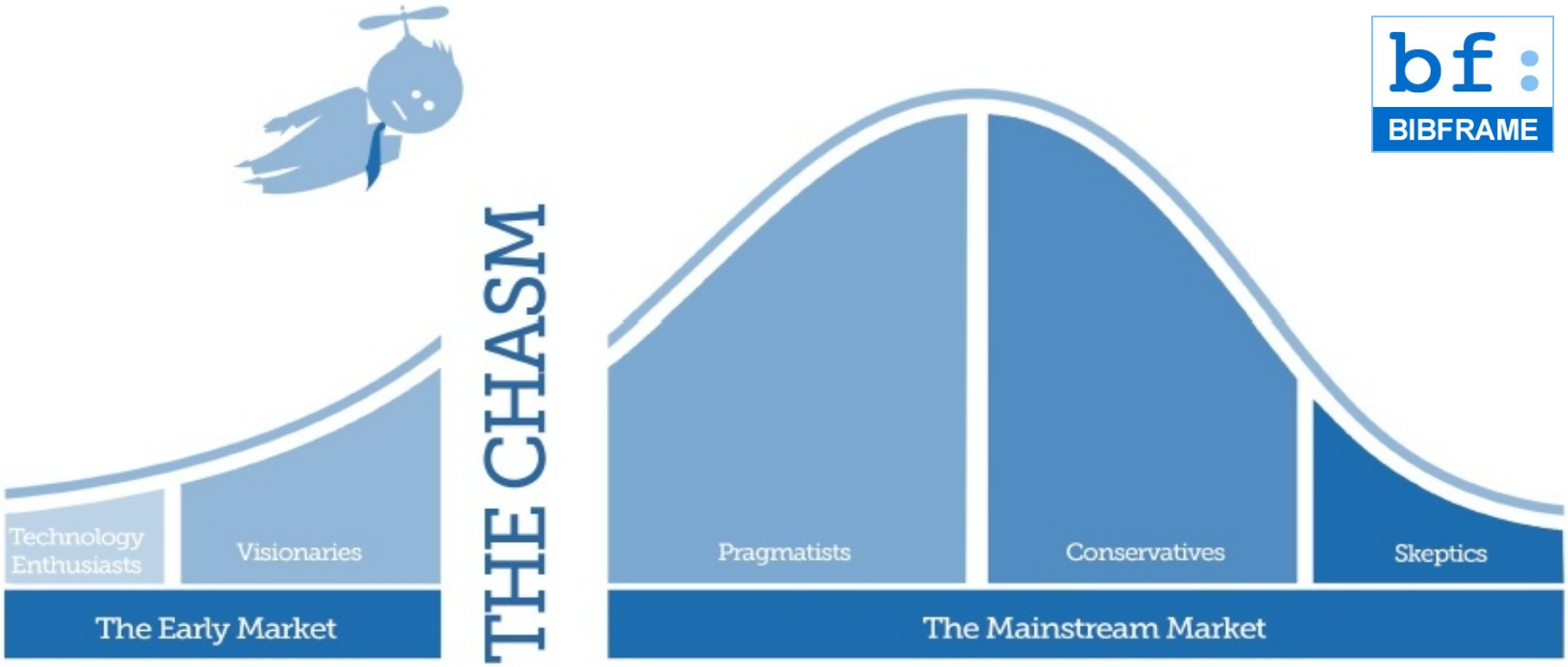
Attributes of instance

Property	Expected Value(s)	Description	Remark
instantiates	Work	The Work this resource instantiates or manifests.	For use to connect Instances to Works in the BIBFRAME structure.
extent	Literal	Number of physical pages, volumes, cassettes, total playing time, etc., of of each type of unit.	
medium	IRI	The medium of the Instance.	
dimensions	Literal	A measure of the size of its covering properties.	
format	IRI	Format of the Instance.	
title	Literal	Title of the resource.	
size		The size of the Instance.	

Attributes of resource

Property	Expected Value(s)	Description	Remark
label	literal	The human readable label of the resource	
description	Literal	Description of the resource.	

Phases of Linked Data / BIBFRAME Adoption

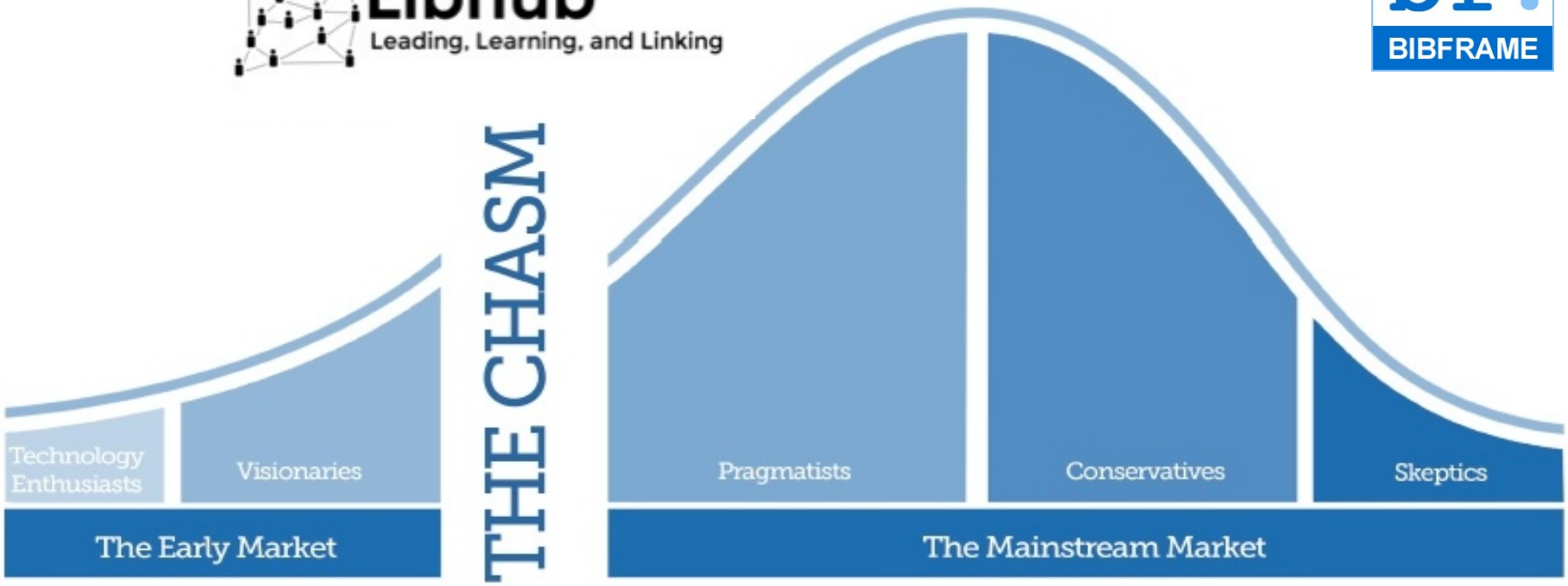


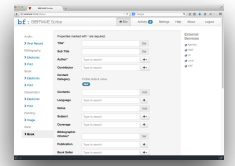
Experimenters	Early Implementers	Data Publishers & Connectors	Mainstream Workflow	Back Office Systems
• *Clarify Space* • *Determine the Need* • *Define a Foundation* • *Draft Specifications*	• *Test the Assumptions* • *Draft Standards* • *Evaluate Data, Processes, & Gaps*	• *Begin to work at scale* • *Use other's data* • *Participate - Publish, Share, Connect*	• *"Final" Standards & Best Practices* • *New businesses and models*	• *"There's Linked Data in there!?"*

Phases of Linked Data / BIBFRAME Adoption

Libhub
Leading, Learning, and Linking

bf:
BIBFRAME





DEUTSCHE NATIONAL BIBLIOTHEK

LIBRARY OF CONGRESS

BIBFLOW
AN IMLS PROJECT OF THE UC DAVIS LIBRARY & ZEPHEIRA

viewshare
interfaces to our heritage

NLB | National Library Singapore

The Future

- Keep Learning
  - Community Driven Transformations, Evolving Vocabularies
- Continued Collaboration with LC and OCLC
  - BIBFRAME Implementers
  - WorldCat Works, Bibliograph.net
- Engagement with Activities
  - Schema.org, LD4L, BIBFLOW
- Focus on Linking, Connecting, Web Visibility
  - The Libhub Initiative http://libhub.org
    "Everyone benefits from visibility of libraries and their content on the Web."
  - Sponsors & Partners – Atlas Systems, MarcEdit, and more to come

Expectations of Library Web Visibility

"When my community searches the Web for something we have, we better show up as an option."

- Chuck Gibson, Director & CEO
Worthington Public Library

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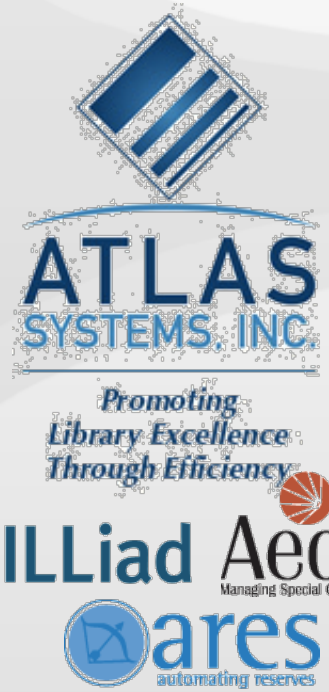
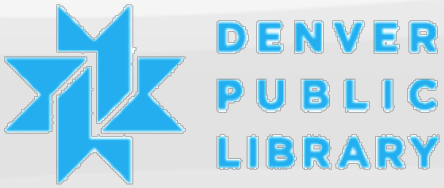
Can’t ignore the problem…

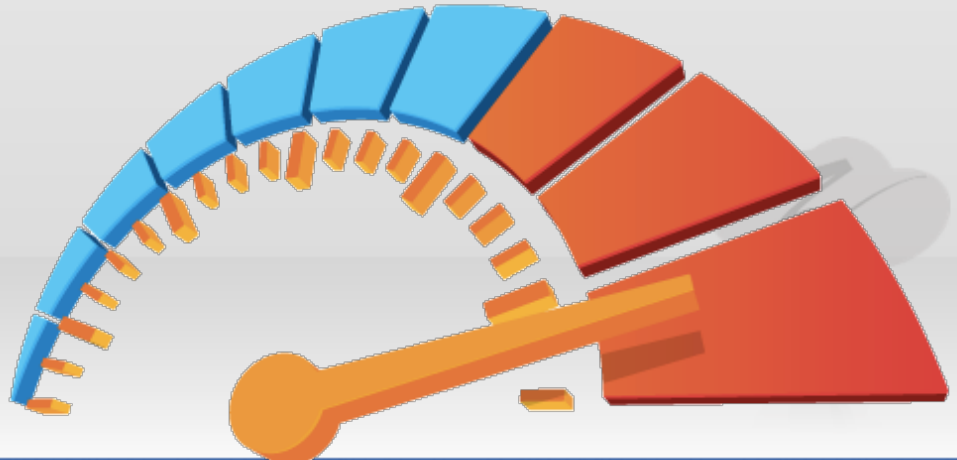
Learning through action together



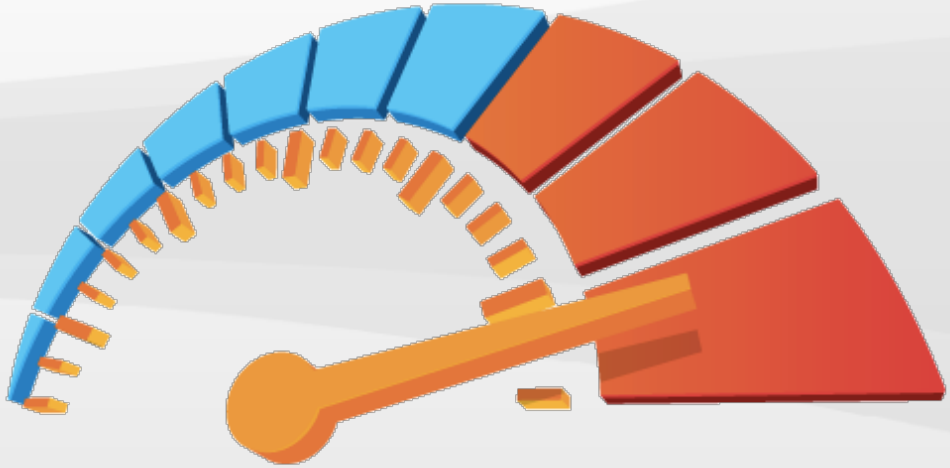


Moving the Needle and Transforming the Web

- NO NEED TO WAIT
- Build on existing investments
- Use BIBFRAME to **reflect content in the Web**
- Leverage the Web's cooperative infrastructure
- **Link between** shared & Web assets to **test impact** on results
- **Help the Web understand** library vocabularies
- **Connect into legacy systems**



Getting Involved



Thank you!

Learn more @

http://zepheira.com/solutions/library/

http://libhub.org