

# Ex Libris LD Collaboration Program

IFLA LOD, August 2016

Shlomo Sanders, CTO

# Agenda

**1**

**Background**

**2**

**Alma**

**3**

**Discovery (Primo)**

**4**

**Challenges**

# Our Objectives, Method

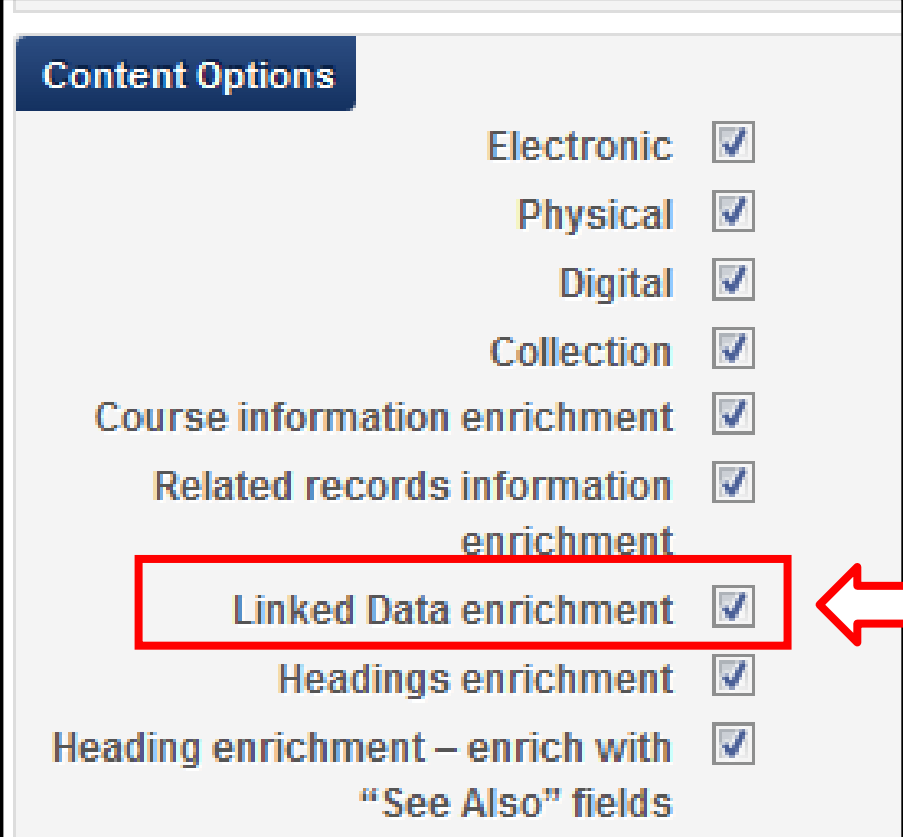
- Bring LOD (Linked Open Data) to the mass of Institutions
  - Looking forward towards an Alma family of:
    - >1000 Institutions
    - >50,000 librarians
    - As of April 2016 there were already over 400 institutions live on Alma
    - Thus via Alma we have the opportunity to **bring LOD to many institutions**
- How
  - Learn and work together with the proven leaders
  - Incrementally rollout functionality that makes LOD accessible even to libraries that are not experts – **Keep it simple**

# Our Objectives, Method

- Stages of bringing LOD to the mass of Institutions
  - Short term
    - Focus on features that enhance MARC and existing workflows
    - Shows immediate value
  - Mid term
    - Infrastructure for gradual move to “new” cataloging model, BIBFRAME
    - Add more usable features
  - Long term
    - Support LOD (BIBFRAME) as the model of choice

# Keep it real simple!

- Alma “Linked Data Enrichment” is a checkbox!



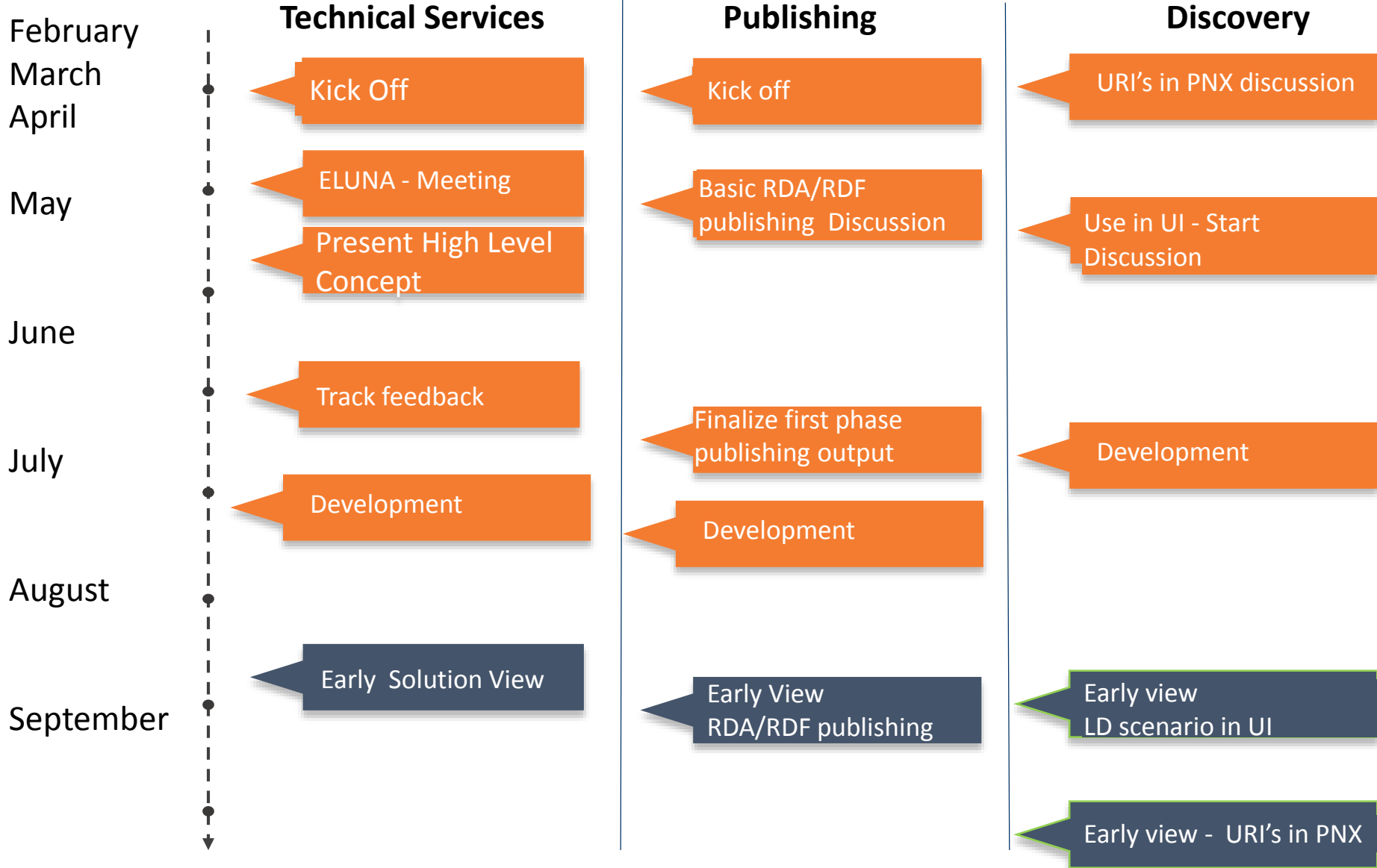
The screenshot shows a 'Content Options' panel with the following items and their checkbox status:

Option	Checked
Electronic	Yes
Physical	Yes
Digital	Yes
Collection	Yes
Course information enrichment	Yes
Related records information enrichment	Yes
<b>Linked Data enrichment</b>	<b>Yes</b>
Headings enrichment	Yes
Heading enrichment – enrich with “See Also” fields	Yes

# Ex Libris LOD Collaboration Program

- Started in 2016
  - Expect to be multi-year effort (short, mid and long term)
- 41 Institutions signed up
  - NA 24
  - EU 12
  - APAC 5
- Focus: adding LOD functionality to Alma and Discovery
- Parallel tracks
  - Alma Technical Services and Publishing (URI support)
  - Discovery

# Track High-Level Plan



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# URIs are published to discovery

```
<datafield tag="020" ind1=" " ind2=" ">  
  <subfield code="a">9780385349949 (hardcover)</subfield>  
  <subfield code="0">(uri) http://www.isbnsearch.org/isbn/9780385349949</subfield>  
</datafield>
```

...

```
<datafield tag="035" ind1=" " ind2=" ">  
  <subfield code="a">(OCoLC)880876472</subfield>  
  <subfield code="0">(uri) http://www.worldcat.org/oclc/880876472</subfield>  
</datafield>
```

This is from an actual  
published recorded

...

```
<datafield tag="100" ind1="1" ind2=" ">  
  <subfield code="a">Sandberg, Sheryl</subfield>  
  <subfield code="0">ISNI 0000 0004 0267 8608</subfield>  
  <subfield code="0">(uri) http://id.loc.gov/authorities/names/n2012069729</subfield>  
  <subfield code="0">(uri) http://viaf.org/viaf/sourceID/LC|n2012069729</subfield>  
  <subfield code="2">LCNAMES</subfield>  
  <subfield code="0">11-LIBRARY_OF_CONGRESS-n 2012069729</subfield>  
  <subfield code="9">Y</subfield>  
</datafield>
```

...

# URIs via APIs

- Linked Data via JSON

[https://open-na.hosted.exlibrisgroup.com/alma/EXLDEV1\\_INST-EU\\_PROD/bibs/992581030000121.jsonld](https://open-na.hosted.exlibrisgroup.com/alma/EXLDEV1_INST-EU_PROD/bibs/992581030000121.jsonld)

```
- {
  @id: "http://www.isbnsearch.org/isbn/9780385349949",
  label: "9780385349949 (hardcover)",
  type: "bibo:isbn13"
},
- {
  label: "(DE-603)344188434"
},
- {
  @id: "http://www.worldcat.org/oclc/880876472",
  label: "(OCoLC)880876472",
  type: "bibo:oclcnum"
},
- {
  label: "(DE-599)HEB344188434"
}
],
- creator: [
  - {
    @id: "http://id.loc.gov/authorities/names/n2012069729",
    label: "Sandberg, Sheryl",
    sameAs: "http://viaf.org/viaf/sourceID/LC|n2012069729"
  },
  - {
    @id: "http://www.worldcat.org/oclc/880876472",
    label: "(OCoLC)880876472",
    type: "bibo:oclcnum"
  },
  - {
    label: "(DE-599)HEB344188434"
  },
  - {
    @id: "http://www.isbnsearch.org/isbn/9780385349949",
    label: "9780385349949 (hardcover)",
    type: "bibo:isbn13"
  }
]
```

# Linked Data in Alma

**Content Options**

- Electronic
- Physical
- Digital
- Collection
- Course information enrichment
- Related records information enrichment
- Linked Data enrichment**
- Headings enrichment
- Heading enrichment – enrich with “See Also” fields

Working on: 850-applications (1/9021424110564)

LDID	URI	Label
020	http://www.lbnsearch.org/lbn/9780385349949	9780385349949
035	http://www.worldcat.org/oclc/880876472	880876472
100	http://id.loc.gov/authorities/names/n2012068729	Sandberg, Sheryl
100	http://viaf.org/viaf/sourceID/LC/n2012068729	Sandberg, Sheryl
650	http://viaf.org/viaf/sourceID/DB8/1041447344	Berufsanfang

650\_7\_10 (DE-588)4129406-3 10 (DE-603)085453269 ja Karriereplanung [2 gnd  
 650\_7\_10 (DE-588)4071497-4 10 (DE-603)085201456 ja Führungskraft [2 gnd  
 650\_7\_10 (DE-588)4200787-2 10 (DE-603)086014846 ja Weibliche Führungskraft [2 gnd  
 655\_7\_1 ja Ratgeber [2 gnd  
 650\_0 ja Women executives.  
 650\_0 ja Leadership in women.  
 600 10 ja Sandberg, Sheryl.  
 700 1\_10 (DE-588)1061113698 10 (DE-603)350081271 ja Scovell, Neil [4 auf

**LD Links**

- 020 9780385349949 (url) http://www.lbnsearch.org/lbn/9780385349949
- 035 (OCoLC)880876472 (url) http://www.worldcat.org/oclc/880876472
- 100 Sandberg, Sheryl (url) http://id.loc.gov/authorities/names/n2012068729
- 100 Sandberg, Sheryl (url) http://viaf.org/viaf/sourceID/LC/n2012068729
- 650 Berufsanfang (url) http://viaf.org/viaf/sourceID/DB8/1041447344



[Lean in : women, work, and the will to lead / Sheryl Sandberg.](#)  
**Book {Book - Physical} text; unmediated; volume** By Sandberg, Sheryl (London WH Allen 2014)  
 Edition: First edition.  
 ISBN: 9780385349949 (hardcover) and others  
 Subject: Akademiker – Berufsanfang – Karriere and others Language: English Record number: (DE-603)344188434  
**Availability:** [Physical version](#) at **Main Library: General; HD6054.3 .S265 2013** (1 copy, 0 available)

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1

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2

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4

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# Linked Data in Discovery

**Lean in : women, work, and the will to lead**  
Sheryl Sandberg Neil Scovell 2014

● Checked out from Main Library General (HD6054.3 .S265 2013 )

Get it Details Virtual Browse

**Title:** Lean in : women, work, and the will to lead

**Author:** Sheryl Sandberg

Neil Scovell

**Subjects:** Sandberg, Sheryl; Akademiker; Berufs-anfang; Karriere; Karriereplanung; Führungskraft; Weibliche Führungskraft; Women executives; Leadership in women; g Women – Psychology; g Executives; Women middle managers; Führungskraft r Verwandter Begriff; Karriere r Oberbegriff allgemein; Berufsplanung r Verwandter Begriff; Berufsanfänger r Verwandter Begriff; Ratgeber

**Description:** Internalizing the revolution -- The leadership ambition gap : what would you do if you weren't afraid? -- Sit at the table -- Success and likeability -- It's a jungle gym, not a ladder

**Links**

- > Table of Contents
- > Abstract
- > This item in Amazon.com
- > This item in WorldCat®
- > **Linked Data**

**The soldier and the state: the theory and politics of civil-military relations**  
Huntington, Samuel P.  
Cambridge, Mass.: Belknap Press of Harvard University Press 1957

2 versions Available View all

View this item in a new tab

Get it request options: Details D2D

Item	All	Volumes	All	Description	All
Main Library - General	-	05001	.J65		EDCITE
Main Library - General	-	Ind 0000.75	v.1-10, no.3 (1960-1969)	Public notes: Index of articles on Ind 0300.77.2	EDCITE
Main Library - General	-	Ind 0300.77.2	Index of articles 1960-1969 1 v.		EDCITE

**Co-Authors**

1. Sierozinski, Zdzislaw (10)
2. Wlasiński, Józef (17)
3. Jankowska, Hanna (10)
4. Harrison, Lawrence E. (10)
5. Crozier, Michel (10)

**Other Works**

- Third wave democratization in the late twentieth century
- Political order in changing societies
- Who are we? America's great debate

Retrieve information from VIAF to display information about selected co-authors and other author works

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# The BIBFRAME Challenge

- Will BIBFRAME be ready for prime time in 2018?
- Start introducing BIBFRAME into live production system even if not?

# Meta Data Sharing

- New paradigm for sharing metadata between libraries – triplet level?
  - Because Linked Data is more than just “a new format” there will surely need to be changes in how bibliographic records and information is handled.
  - In the model today there is a bibliographic record which includes linked data.



- Will SPARQL be able to scale to a repository that is web-scale?
  - There is a lot of discussion about querying linked data using SPARQL
  - This will need to be addressed on a technical level when querying large centralized repositories such as Alma has



**THANK YOU**

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