Decentralizing Knowledge
Open Source and Open Data in Libraries

Tamir Borensztajn | tamirb@ebsco.com

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Dissemination of information
Open Linked Data

Software applications
Library Services Platform

The challenge

Photo by Dušan veverkolog on Unsplash

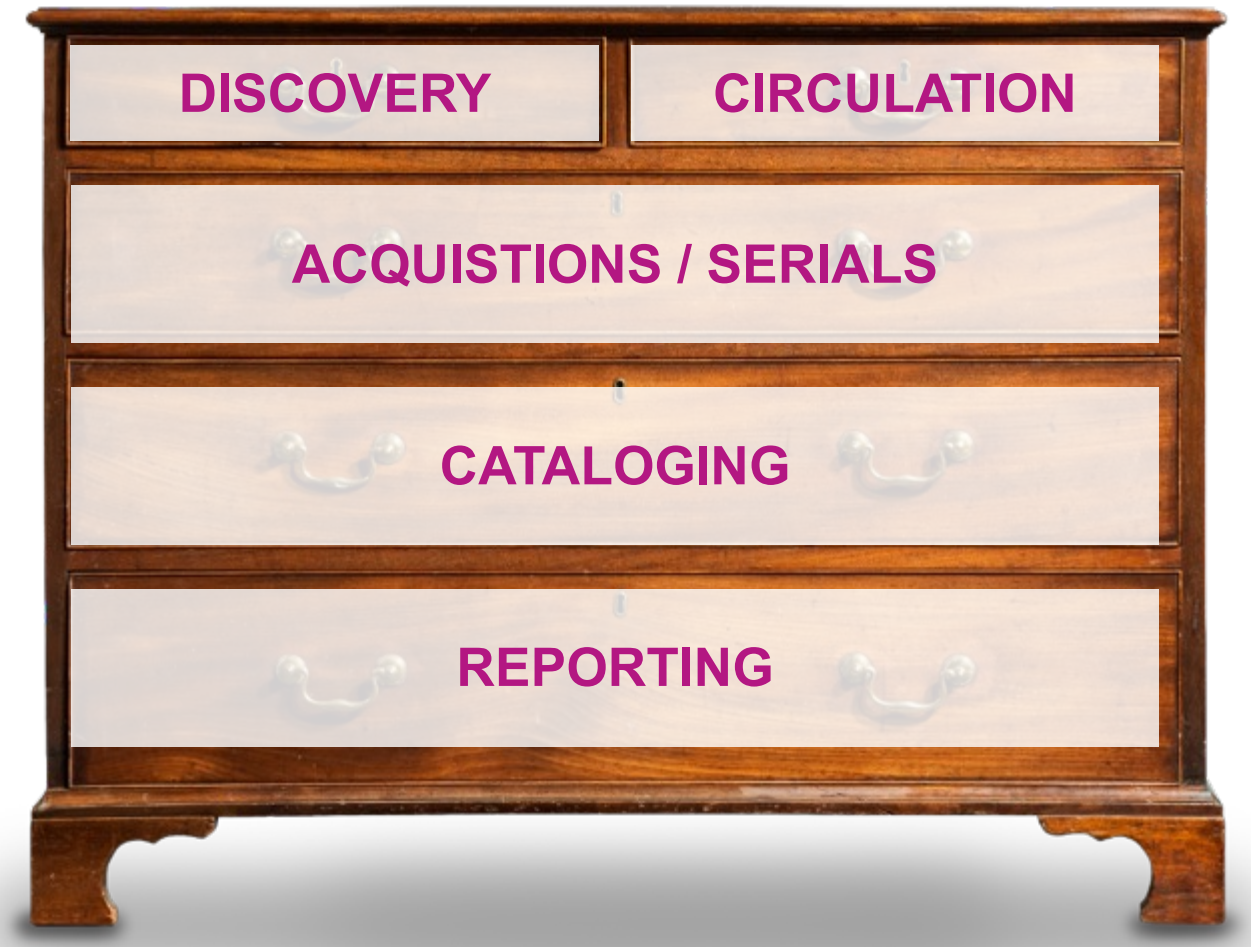
Applications

Less choice, dependency on single vendors

Information

Catalogs locked in place

Library Services Platform



IR

OA

Ordering

Discovery

EBSCO

Decentralizing Knowledge

“OSS …represents a pool of knowledge,
which is accessible and usable by all companies
and individuals worldwide,
and is therefore a public good in its purest form.”

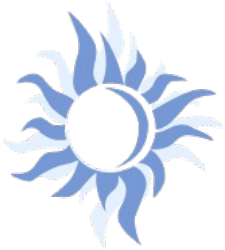
European Commission’s DG CONNECT study (2021) on OSS

Open Source in libraries

LibreCat/
Catmandu

ReadMETRICS

folio



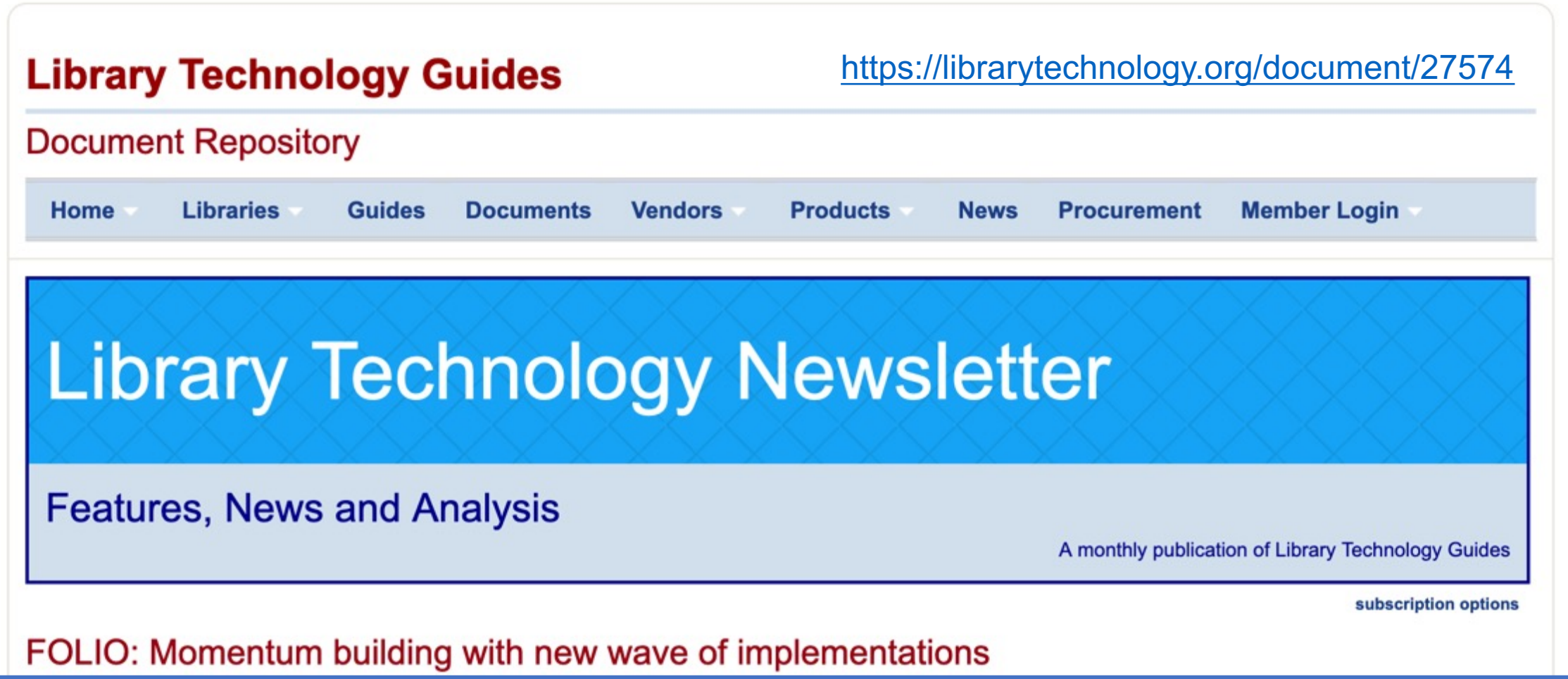
blacklight

folio

Service providers | EBSCO FOLIO Services

ILS functionality & ERM **Interoperability** **Extensibility & innovation**

collaboration of libraries, developers and vendors



"The FOLIO [LSP] … has made rapid gains in library implementations… the major modules of FOLIO are complete, and implementations are well underway."

GBV

ZBW
Leibniz-Informationszentrum Wirtschaft
Leibniz Information Centre for Economics

HeBIS

China Academic Library and Information System (CALIS)
CALIS

Universität Bremen

UNIVERSITÄT LEIPZIG

TRINITY COLLEGE
CAMBRIDGE

DUT
DURBAN UNIVERSITY OF TECHNOLOGY

MASSEY UNIVERSITY
TE KUNENGA KI PŪREHUROA
UNIVERSITY OF NEW ZEALAND

Caltech Library

CORNELL UNIVERSITY
FOUNDED BY EZRA CORNELL

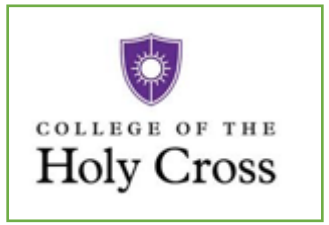
THE UNIVERSITY OF CHICAGO
1890

UNIVERSITY OF MASSACHUSETTS
AMHERST 1863

TEXAS A&M
UNIVERSITY

LEHIGH
UNIVERSITY

DUKE UNIVERSITY
LIBRARIES


COLLEGE OF THE
Holy Cross

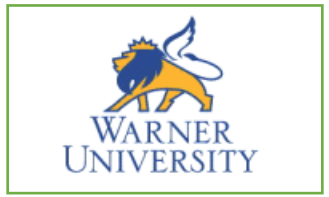
University of Colorado Boulder

WENTWORTH
INSTITUTE OF TECHNOLOGY

SIMMONS UNIVERSITY
BOSTON MASSACHUSETTS
1899

AUBURN
UNIVERSITY

THE UNIVERSITY OF
ALABAMA


WARNER
UNIVERSITY

Amherst College

Missouri State
UNIVERSITY

WASHINGTON
&
JEFFERSON
COLLEGE

HAMPSHIRE
COLLEGE

MOUNT HOLYOKE

Smith College

Community structure
Development & services

EBSCO FOLIO Services

What we provide

Implementation

- EBSCO FOLIO readiness assessment (analysis of existing workflows)
- Implementation of EBSCO ERM
- Full EBSCO FOLIO implementation and training
- Integrations with EBSCO solutions and third-party applications

Hosting

- Global high availability and performance
- Software updates and backups
- Security and privacy
- Monitoring and alerting

Support

- Global and local support via EBSCO and partners in your language and time zone
- Dedicated online community and forums
- Testing and release procedures

Integrations

Connecting disparate data sources to deliver key insights with **Panorama**

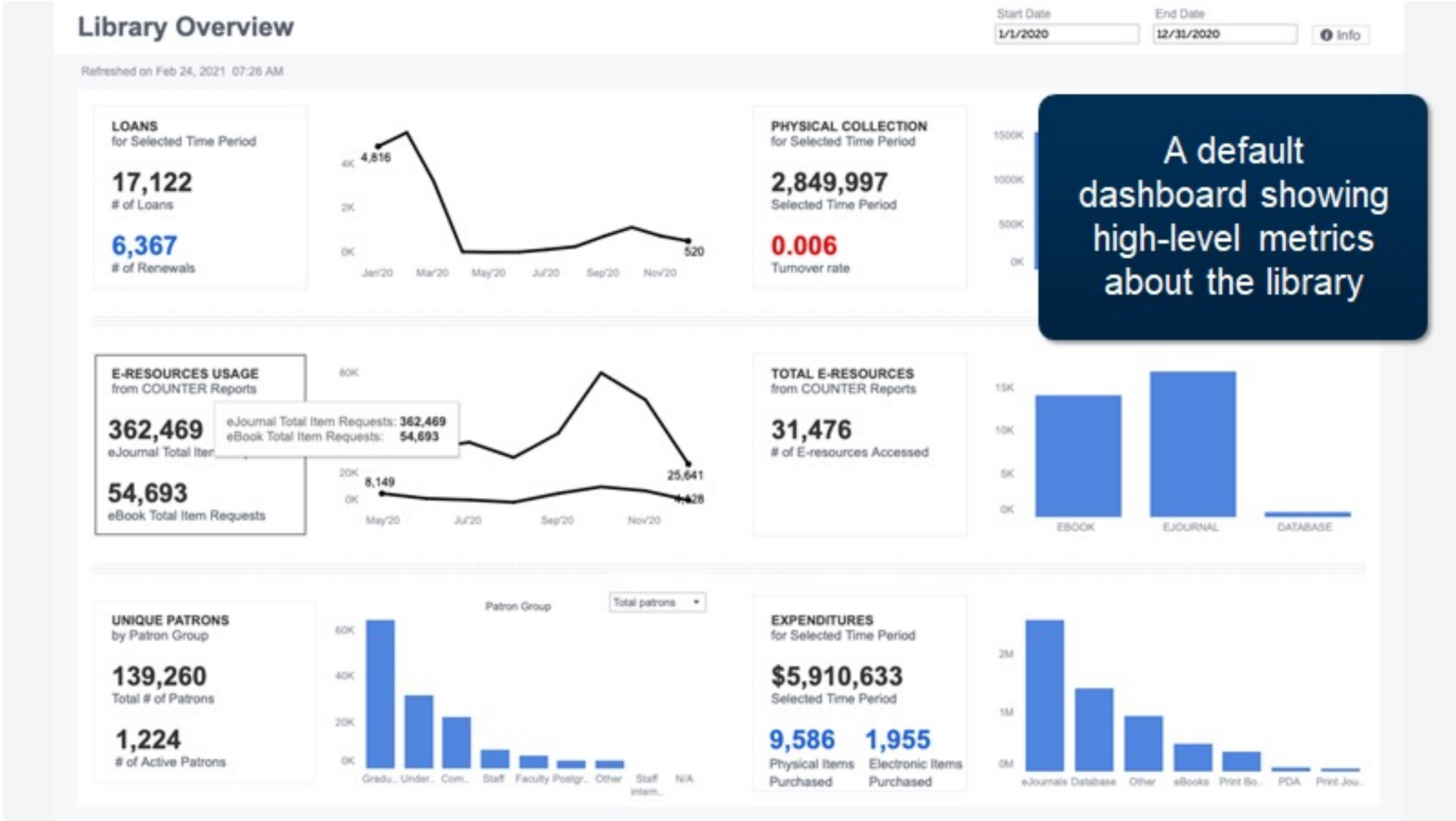
Panorama Features

A self-service platform for data discovery

Default and custom visual dashboards

Automated data connections

Customizable data sources


Library Overview
Start Date
1/1/2020
End Date
12/31/2020
Info
Refreshed on Feb 24, 2021 07:26 AM
LOANS
for Selected Time Period
17,122
# of Loans
6,367
# of Renewals
4,816
520
Jan'20
Mar'20
May'20
Jul'20
Sep'20
Nov'20
PHYSICAL COLLECTION
for Selected Time Period
2,849,997
Selected Time Period
0.006
Turnover rate
A default dashboard showing high-level metrics about the library
E-RESOURCES USAGE
from COUNTER Reports
362,469
eJournal Total Item Requests
54,693
eBook Total Item Requests
eJournal Total Item Requests: 362,469
eBook Total Item Requests: 54,693
8,149
25,641
May'20
Jul'20
Sep'20
Nov'20
TOTAL E-RESOURCES
from COUNTER Reports
31,476
# of E-resources Accessed
EBOOK
EJOURNAL
DATABASE
UNIQUE PATRONS
by Patron Group
139,260
Total # of Patrons
1,224
# of Active Patrons
Patron Group
Total patrons
Gradu..
Under..
Com..
Staff
Faculty
Postgr..
Other
Staff interm..
N/A
EXPENDITURES
for Selected Time Period
$5,910,633
Selected Time Period
9,586
Physical Items Purchased
1,955
Electronic Items Purchased
eJournals
Database
Other
eBooks
Print Bo..
PDA
Print Jou..

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Decentralizing knowledge

Open Data & BIBFRAME

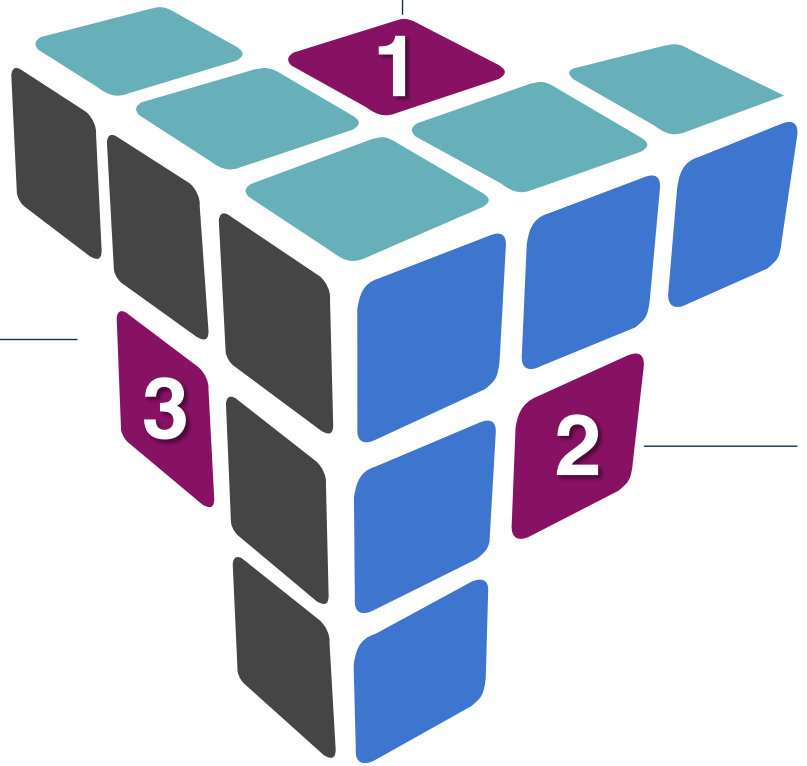
Library.Link is an EBSCO service, based on BIBFRAME, that connects and enriches library resources with open data and publishes resources anywhere on the web.

The library's mission

Provide access to relevant, rich information for any user, anywhere.

The challenge

The catalog is not visible outside of the OPAC or discovery service



MARC bibliographic records are full of rich but unconnected data (e.g., connections to people, places, genres, etc.)

Freeing the catalog and creating new connections helps users explore, find, and use the most relevant resources anywhere on the web

Graphics: https://www.presentationgo.com/

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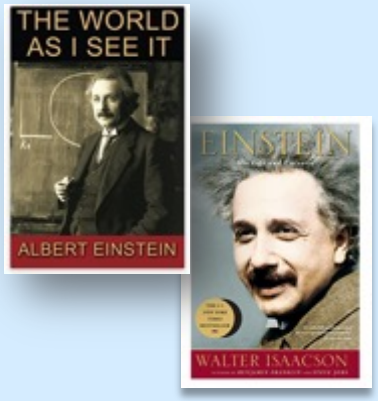
Addressing the challenge

Use

item(s) within the library's catalog



Connect

- all works by and about an author / researcher / faculty
- works within a genre,
- works about a place, etc.

Enrich

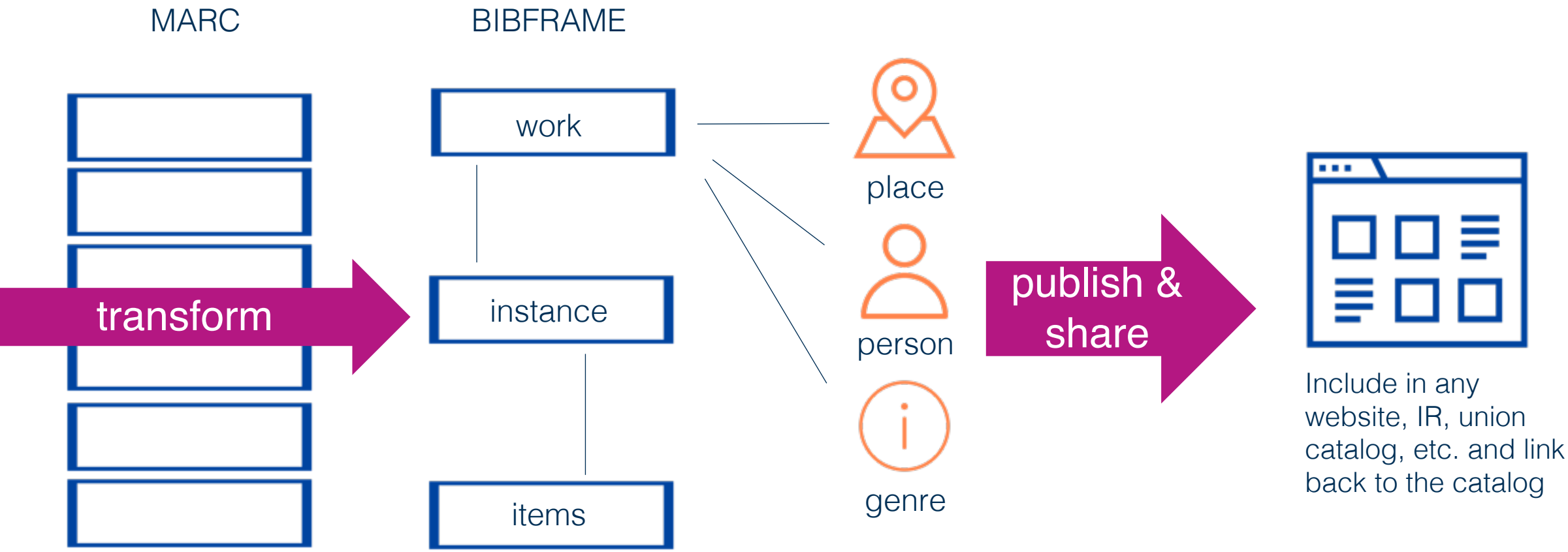
with information about the author / researcher / faculty: alternative names, date of birth, occupation, areas of study, political affiliations, etc.

Publish

anywhere on the World Wide Web:

- Learning Management System,
- IR,
- department website,
- And many more

Making the catalog portable and visible with BIBFRAME



Transforming MARC to BIBFRAME resources.
each resource becomes a link that serves as a unique identifier

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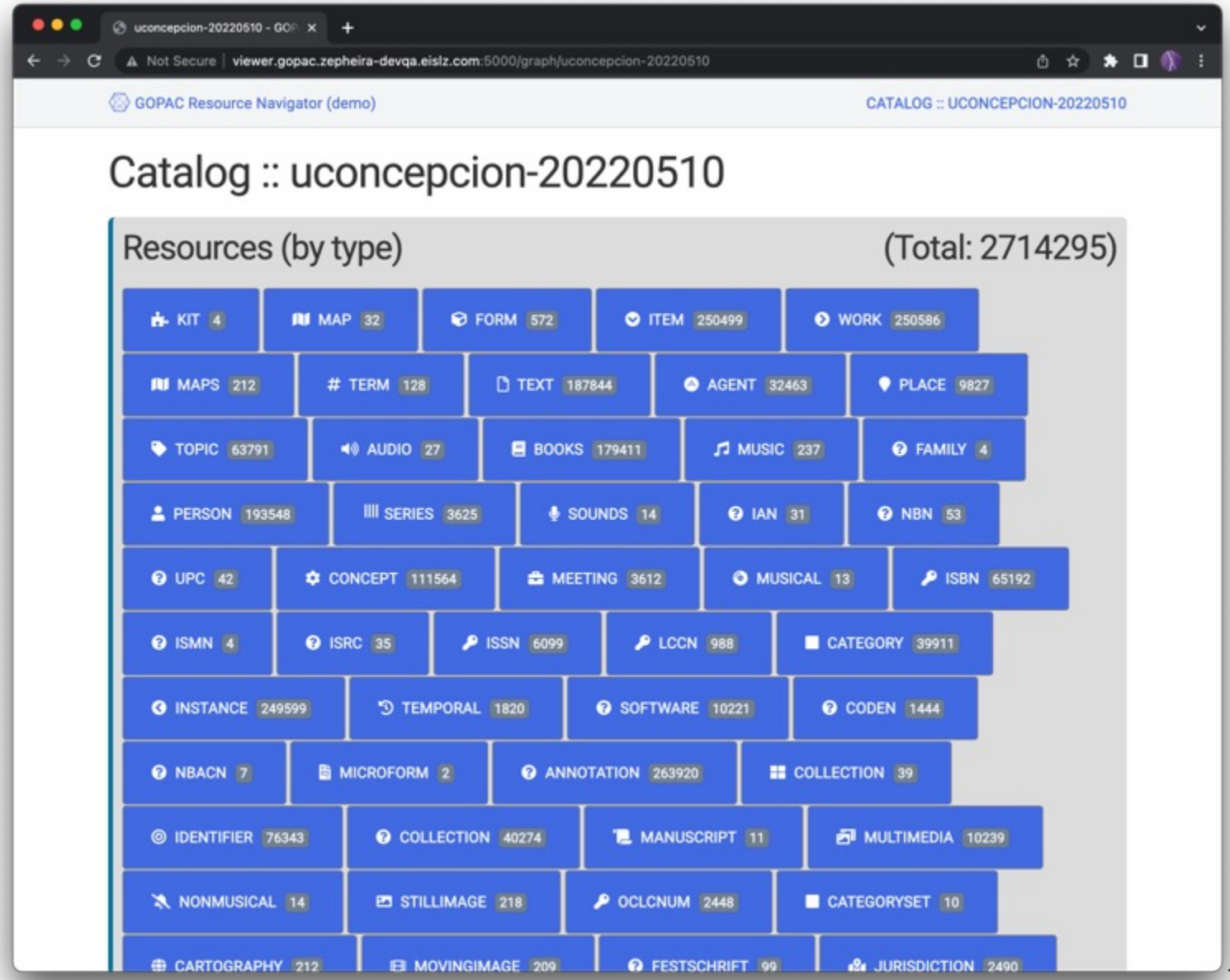
Bibliotecas de la Universidad de Concepción

- 247K catalog records transformed into 2.7M BIBRAME resources



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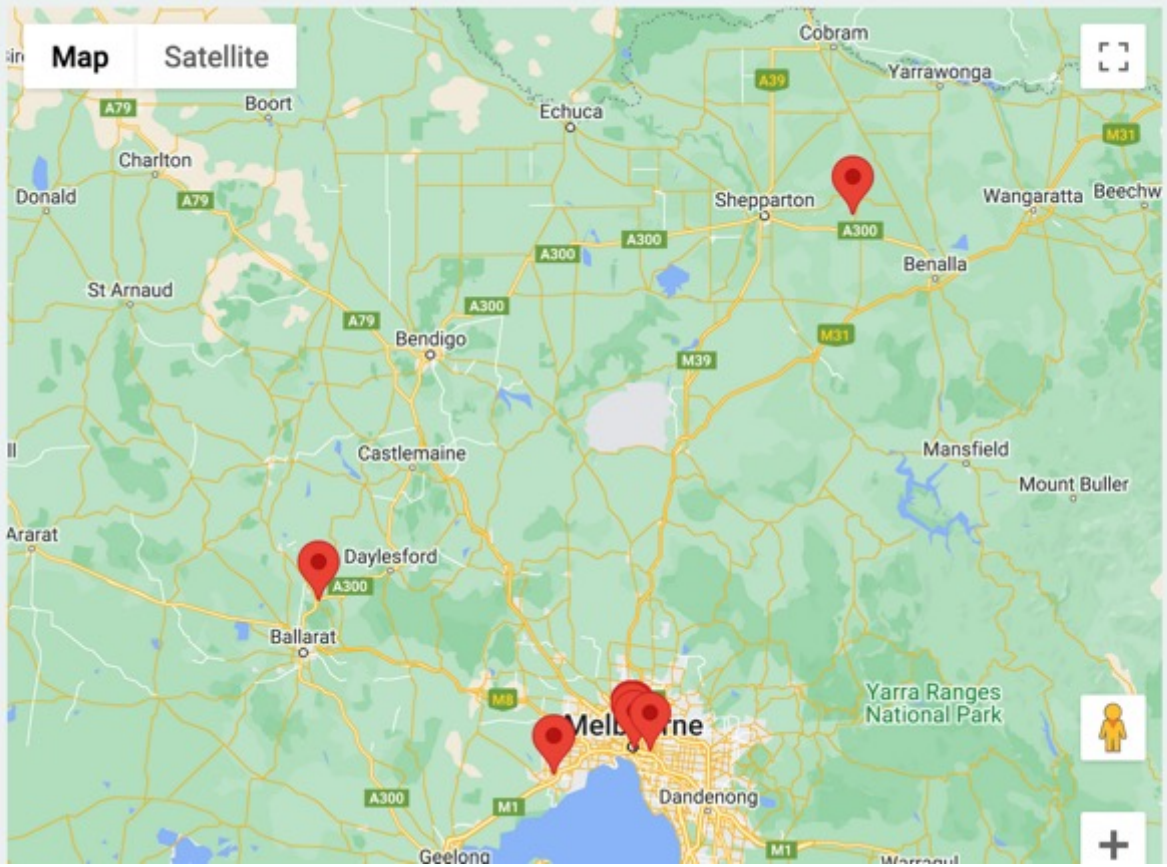
University of Melbourne Library

Social

Address Melbourne, VIC

Map | Details



Resources

Agent	594704
Category	211
Collection	371242
Concept	2337144
CopyrightEvent	3647
Family	4024
Form	69037
Instance	4852226
List	2096
Meeting	82659
Organization	323762
Person	2640137
Place	146537
ProviderEvent	1473307
Series	1137307
Temporal	8419
Topic	258786

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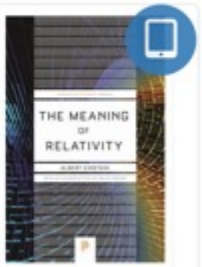
88 Items by Albert Einstein at the University of Melbourne Library

Die Grundlagen der Einsteinschen Gravitationstheorie, von Erwin Freundlich : mit



The meaning of relativity : including the relativistic theory of the non-

The genesis of general relativity : the promise of mathematics, Volume 4.

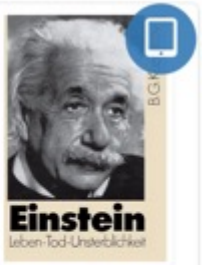
The Meaning of relativity, Albert Einstein, (electronic resource)

Sidelights on Relativity, Albert Einstein, (electronic resource)

Geome Erfahru erweite Fassur Festvo

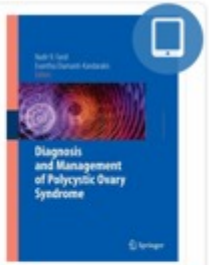
192 Items about Albert Einstein at the University of Melbourne Library

Einstein 1905 : the standard of greatness, John S. Rigden, (electronic



Einstein : Leben, Tod, Unsterblichkeit, B.G. Kuznecov ; in

Einstein : his life and works, K.A.I.L. Wijewardena Gamalath



Einstein Symposion, Berlin : aus Anlass der 100. Wiederkehr

Einstein Symposion, Berlin : aus Anlass der 100. Wiederkehr

Einstei Sympo : aus A 100. Wiederkehr

quantum physics,

Library.Link

Create and publish ‘living’ collections anywhere on the web.

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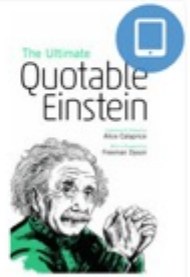
Einstein, Albert

Embed

13 Items by the Person Einstein, Albert

Annual report of the Board of Regents of the Smithsonian

Borrow it

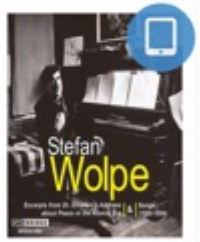


The ultimate quotable Einstein, Albert Einstein ;

Borrow it

Through the Wormhole with Morgan Freeman : Is Time Travel

Borrow it



WOLPE, S.: Edition, Vol. 3 - Excerpt from Dr. Einstein's

Borrow it

Albert Einstein, The Human Side, Einstein, Albert, (electronic

Borrow it

Albert Einstein, the Human Side : Glimpses from His Archives,

Borrow it

Embed

Context

Creator of

- Albert Einstein, the Human Side : Glimpses from His Archives
- Albert Einstein, Mileva Maric : The Love Letters
- Albert Einstein, The Human Side
- Einstein on Politics : His Private Thoughts and Public Stands on Nationalism, Zionism, War, Peace, and the Bomb

Contributor of

- WOLPE, S.: Edition, Vol. 3 - Excerpt from Dr. Einstein's Address about Peace in the Atomic Era / Songs (Arnold, Summers, Mason, Sewailam)
- Through the Wormhole with Morgan Freeman : Is Time Travel Possible? - Series 1 - Ep 3
- Annual report of the Board of Regents of the Smithsonian Institution showing the operations, expenditures, and

Author of

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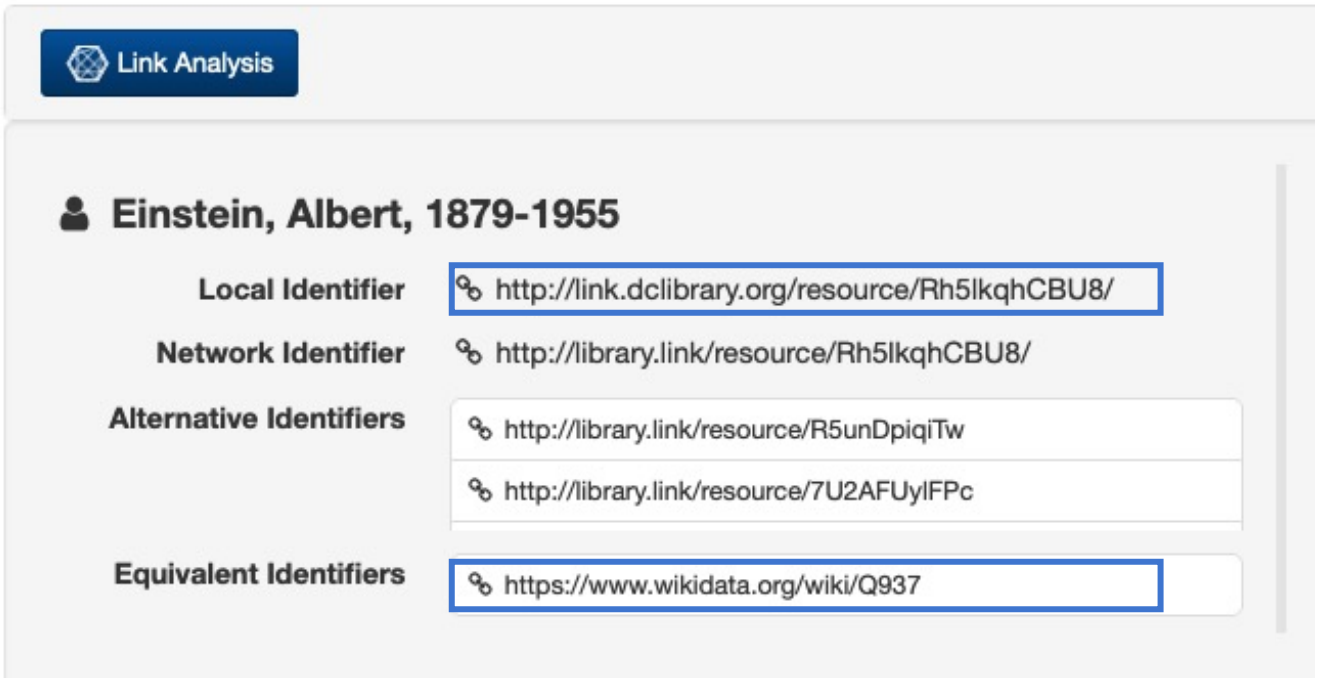
Using BIBFRAME for resource enrichment

Our service intelligently maps links (local identifiers) to equivalent identifiers in other graphs.

We use these mappings to pull in additional data about the person, item, etc.

Example: enriching the 'person' with **WikiData**.



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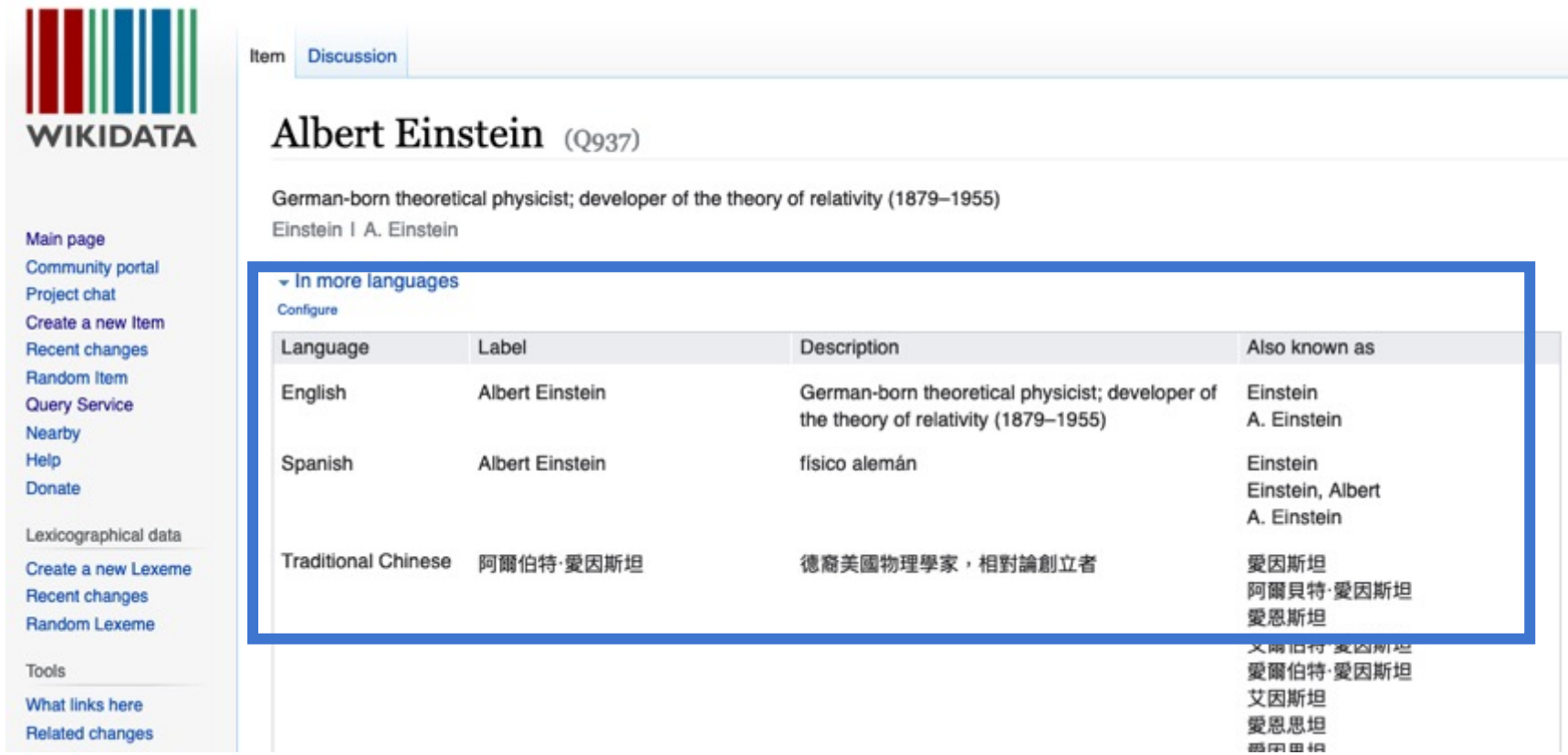
Example: Using BIBFRAME for resource enrichment



Use services like WikiData to add additional context

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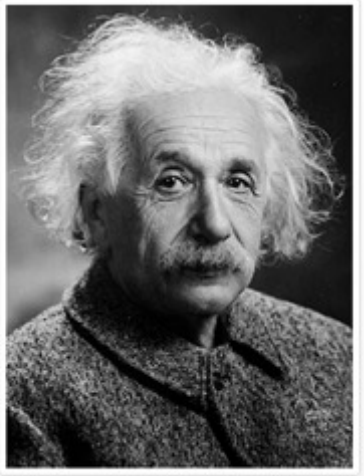
Enrichments – e.g., Wikidata

Library Knowledge Graph - Federal University of Rio Grande do Sul (UFRGS)

Einstein, Albert, 1879-1955 *German-born theoretical physicist; developer of the theory of relativity (1879–1955)*



Albert Einstein Head

Albert Einstein

German-born theoretical physicist; developer of the theory of relativity (1879–1955)

Name:	Albert Einstein
AKA:	Einstein, A. Einstein
Born:	March 13, 1879 in Ulm
Died:	April 17, 1955 in Princeton
Cause of death:	Natural causes (Abdominal aortic aneurysm)
Remains:	National Museum of Health and Medicine
Occupation(s):	Writer, Teacher, Scientist, Professor, Physicist, Inventor, Philosopher, Pedagogue, Mathematician, Patent examiner, Science writer, University teacher, Theoretical physicist, Philosopher of science, Non-fiction writer
Citizenship:	Cisleithania
Gender:	Male
Politics:	German Democratic Party

Learn more about Albert Einstein at

- Wikipedia
- Open Library
- IMDB
- Encyclopædia Britannica

22 Items by Albert Einstein at the Federal University of Rio Grande do Sul (UFRGS)

- Ideas and opinions by Albert Einstein, Based on Mein Weltbild, Editeb bv Carl
- Introduction to the theory of relativity, By Peter Gabriel Bergmann ; With a Foreword bv
- Como veo el mundo, Albert Einstein ; Traducción por Nathan Caplan
- A Evolução da física, Albert Einsteins e Leopold Infeld ; tradução Giasone
- The collected papers of Albert Einstein, Anna Beck, translator
- El significado de la relatividad, Albert Einstein ; Traducido Carlos E. Prelat
- Como vejo o mundo, Albert Einstein ; Tradução de H. P. de Andrade

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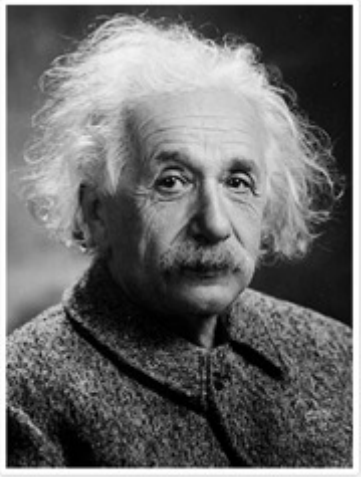

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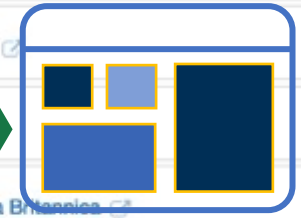
Occupation(s):	Writer, Teacher, Scientist, Professor, Physicist, Inventor, Philosopher examiner, Science writer, University teacher, Theoretical physicist, P
Citizenship:	Cisleithania
Gender:	Male
Politics:	German Democratic Party

Learn more about Albert Einstein at

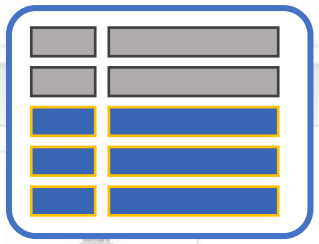
Wikipedia

Publish on the web and embed on any website.



22 Items by Albert Einstein at the Federal University of Rio Grande do Sul (UFRGS)

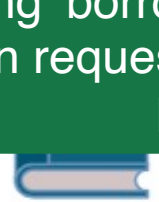
Using ‘borrow actions’, users can request items from the library.



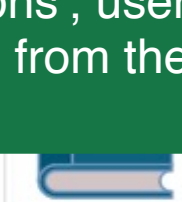
Enrichments can also be sent back to the library’s FOLIO catalog and added to the original records.

Ideas and opinions by Albert Einstein, Based on Mein Weltbild, Editeb bv Carl

Introduction to the theory of relativity, By Peter Gabriel Bergmann ; With a Foreword bv



Como veo el mundo, Albert Einstein ; Traducción por Nathan Caplan



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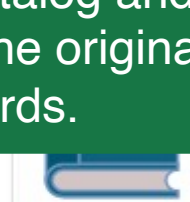

Como vejo o mundo, Albert Einstein ; Tradução de H. P. de Andrade

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EP Library

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Selected Online Reading on Artificial Intelligence and Law

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  - Aspects of Artificial Intelligence
  - Access to sources
- E-books
- E-articles
- Databases and Newsletters
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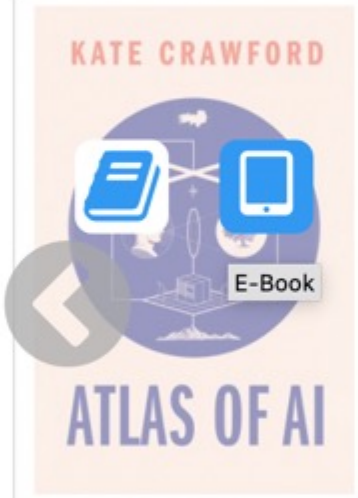
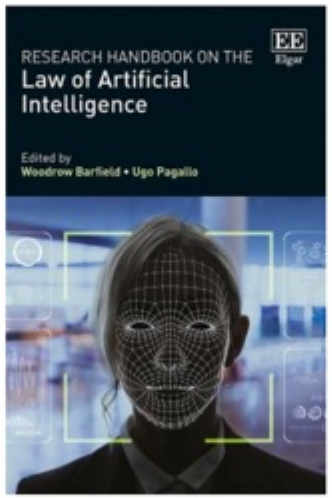
- Related guides

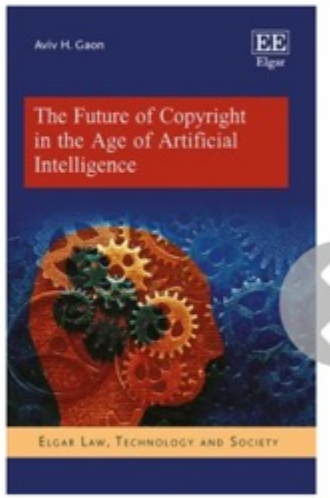


Atlas of AI



Research Handbook on the Law of Artificial Intelligence

Artificial Intelligence and the Law



The Future of Copyright in the Age of Artificial Intelligence

Published collections are “living” lists

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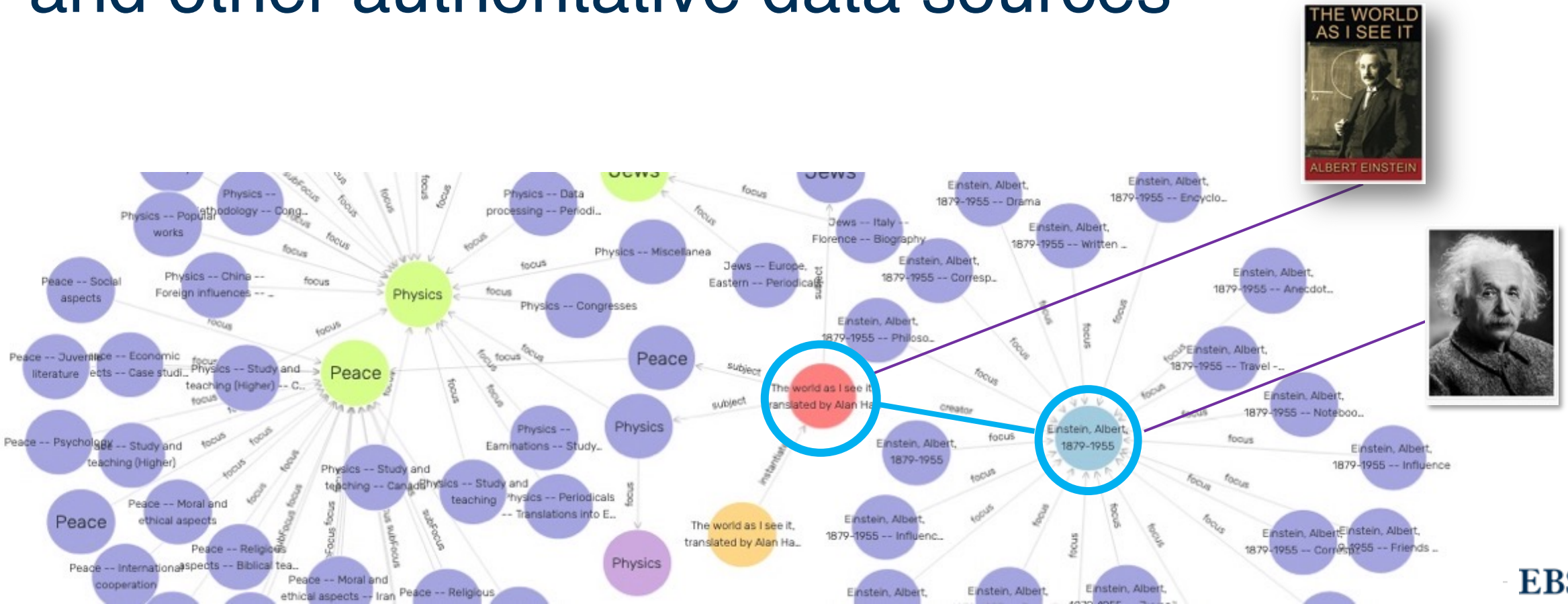
The Library.Link graph represents data from connected catalogs and other authoritative data sources



EBSCO

Open data and open standards

Open-source software

With Library.Link:

- Unlock the catalog
- Meet users where they are, anywhere on the web

With FOLIO:

- Work with a service provider for hosting, implementation and support
- Integrate with different services, including Panorama from EBSCO

Thank you

Tamir Borensztajn | tamirb@ebsco.com

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