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### Collaborative Creation of the OER Metadata Rosetta Stone

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# Collaborative Creation of the OER Metadata Rosetta Stone

Camille Thomas, Florida State University
Heather White, Mt Hood Community College
Bill Jones, SUNY Geneseo



The Rosetta Stone, Pixabay



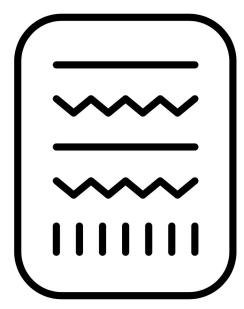
## Why does OER need a Metadata Rosetta Stone?

"While there is ongoing improvement in some of the larger open educational resources (OER) search engines, librarians sending emails to listservs asking 'anyone know of OER on this topic?' and keeping old-fashioned reading lists of valuable OER are common occurrences."

 Sobotka, C., Wheeler, H., & White, H. (2019). Leveraging Cataloging and Collection Development Expertise to Improve OER Discovery. *OLA Quarterly*, 25(1), 17-24. https://doi.org/10.7710/1093-7374.1971

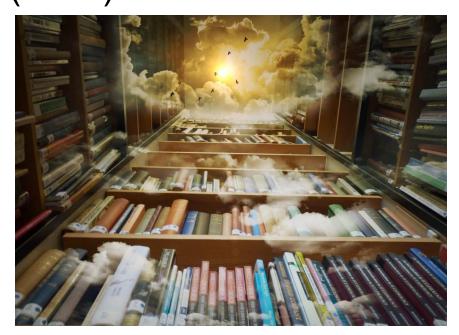
### Metadata Silos = Discovery Silos = Missed OER

- Unique Application Profiles (data entry forms for OER details)
- Unique user interfaces based off unique metadata protocols
- Inconsistent publication data



Made, AU, Noun Project

# Why does OER need a Metadata Rosetta Stone? (cont.)



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#### **Gold Standard: Library Research**

- Library Catalogs and Scholarly Research Databases
- Bibliographic Control of Descriptive Metadata
  - MARC Records
  - o Controlled Vocabularies (LCSH, MeSH, Sears, etc.)
- Cataloging/Metadata Librarians and Systems Librarians that specialize in vendor-neutral information storage and retrieval

### Federated Searching: a big step in the right direction

(data in/data out; no enhancement to improve OER discovery)

- The Mason OER Metafinder
- OASIS (Bill Jones!)
- EBSCO's Faculty Select

#### **Next Step: Translate Metadata Languages**

 Technical Services Librarians + OER Repository Administrators share expertise

# **OER Discovery Working Group**



Iconaton, US, Noun Project

- Bobby Bothmann, Minnesota State University, Mankato, Mankato, Minnesota
- Michelle Brennan, Information Services Manager, ISKME/OER Commons
- Gretchen Gueguen, Digital Projects Manager, PALCI
- Lillian Hogendoorn, Digital Access & OER Lead, eCampusOntario, Toronto, Ontario, Canada
- Bill Jones, Digital Resources and Systems Librarian, SUNY Geneseo, NY
- Camille Thomas, Scholarly Communication Librarian, Florida State University, Tallahassee, FL (SPARC)
- Holly Wheeler, Library Cataloging & Metadata Specialist, Mt Hood Community College,
   Gresham OR
- Heather White, Library Technical Services & OER Coordinator, Mt Hood Community College, Gresham, OR

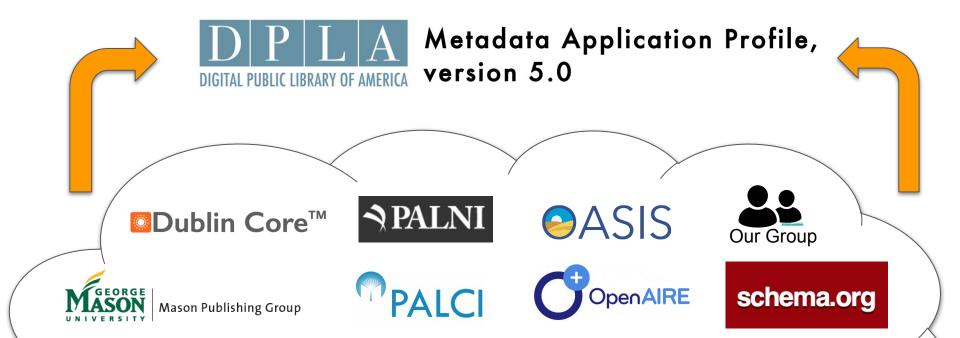
## Initiative Background

- SPARC's LibOER Monthly Community Calls featured OER Discovery as a topic
- Gathered information on existing initiatives, research and leaders particularly people with metadata and cataloging expertise
- Created an internal report to inform next steps to contribute to sustainable discovery infrastructure
- Formed OER Discovery Group



# Collaborative Process: In the beginning...

We began by developing a list of "Core Elements" based on the DPLA Application Profile, and then referenced additional schemas to add new elements



# Collaborative Process: Making Meaning

Label	Property	Definition	Usage	Data Type	Vocab/Synta x Schema
Material type					
Author/Creat or					
Contributor					

We created a simple table to define our elements and assigned members of the group to define each of the elements by borrowing a definition from existing schemas or creating their own

The goal was to make the definitions as meaningful as possible

These original table headings have changed in our current version

Date			
Format			
Language			
Publisher			
Rights Holder			

# Collaborative Process: Developing Recommendations

Is the element Required? Recommended? Or Optional?

### Required:

The element must be contained within the new metadata record.



Symbolon, IT, Noun Project

#### **Recommended:**

The element must be supplied to the new metadata record when available from the original object. Some of these were elements that we wanted to be required, but thought would not necessarily always be available from the existing record. The new metadata record is still considered complete in absence of a recommended element.

### **Optional:**

Recognized as useful, but the new metadata record is still considered complete in absence of an optional element.

## Collaborative Process: Mapping the Elements

Using MHCC's OER MARC Template (CC-BY) as a foundation, we mapped the selected elements to their MARC values.

We also began by mapping to Dublin Core, and then created a blend of LRMI with Schema.org







Label	MARC2 1, based off	Dubli n Core	Schema.or g (LRMI)
Provider	040	NA	provider
Rights Holder	264 \$b	dcter m: rights Holde r	copyrightH older
Title	245 \$a, \$b	dcter ms:tit le	title
Alternate Title	246 \$a, \$b	dcter ms:al ternat	

# Collaborative Process: Testing the Records

We tested sample OER to see how well we would be able to adapt the existing metadata for the item into to the OER Metadata Rosetta Stone schema. One of the test source records was containing a field for Audience, which was missing from our schema. This led to the addition of the field of Audience, defined by OpenAire:

Audience	The second second second	dc:aud ience	Audience	A class of entity for whom the resource is intended or useful.	https://guidel ines.openair e.eu/en/lates t/literature/fi eld_audienc e.html	Recommended
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### Collaborative Process: Circular Conversations

- It was important to write out a rationale
  - We'd often had to revisit elements
  - New elements when testing records
  - Discrepancies among schema
- We decided to keep a flat file structure without any subfields to make it simpler for both the metadata operator and the technical programmer



### The OER Metadata Rosetta Stone

#### Core elements:

No.	Label	MARC21 , based off MHCC's OER template	Dublin Core	Schema.org (LRMI)	Usage	Reference	Requirement
	Material type	5XX	NA	learningRes ourceType	The predominant type or kind characterizing the learning resource. For example, 'full course', 'lecture', or 'ancillary material'	https://wiki.c reativecomm ons.org/wiki/ LRMI/Proper ties/1.1	Required
	Media Format	380, 655	NA	genre	nature or genre of the resource; newspaper, textbook, video presentation, . not strictly related to the digital object, but the content of the object	https://docs. google.com/ spreadsheet s/d/1CWrzG gttl7np6lj8O m-P2R5w9n o730hmVmL -YQ8t-sM/ed it#gid=0 https://www. oercommon	Required

#### **OER Metadata Application Profile**

#### OER Discovery Working Group

Lillian Hogendoorn, Digital Access & OER Lead, eCampusOntario, Toronto, Ontario, Canada Bobby Bothmann, Minnesota State University, Mankato, Mankato, Minnesota Bill Jones. Disidal Resources and Systems Librarian, SUNY Geneseo, NY

Holly Wheeler, Cataloging & Metadata Specialist, Mt Hood Community College, Gresham OR Heather White, Library Technical Services & OER Coordinator, Mt Hood Community College, Gresham, OR

Gretchen Gueguen, Digital Projects Manager, PALCI

Michelle Brennan, Information Services Manager, ISKME/OER Commons

Camille Thomas, Scholarly Communication Librarian, Florida State University, Tallahassee, FL (SPARC)

#### Introduction

The OER Discovery Working Group is a newly formed collaborative effort among OER advocates, metadata and cataloging librarians, and relevant specialists in the U.S. and Canada. It was convered by the Scholarly Publishing and Academic Resources Coalition (SPARC) as part of our broader Open Education program.

Great strides have been made in the creation and adoption of open educational resources. However, discovery remains a pain joint among advocates and adopting instructors. SPARC's intent in convening the CRF Discovery Working Group was to catalyze a conversation among leaders and practitioners concerned with how to make of CRF more discoverable, to support the community in developing best practices, and until the potential next steps for how metadata standards could contribute to sustainable discovery infrastructure.

The OER Application Profile document, which uses core terms from multiple metadata vocabularies to meet the specific context and requirements for application to OER, used the Digital Public Library of America (DPLA) Metadata Application Profile, version 5.0, as a model.

#### Scope of This Documentation

This document is the technical specification of core and contextual elements for Open Educational Resources using existing schema to create a Metadata Application Profile. It provides a list of relevant classes and properties used in OER metadata records at the institutional and repository level.

#### Other Documentation Available

Project Folder compiled by Bobby Botham, University of Minnesota Mankato (CC-BY)

- Mappings to Learning Object Metadata
- ☐ Recommendations for Core Elements
- Annotated Bibliography

#### How to Use this Guide

Each Class of the OER MAP is provided as a table below. Columns indicate:

#### Label: a human-readable label for the property

Usage: description of how the property should be used

Vocab/Syntax Schemas (MARC21, Dublin Core, Schema.org): a controlled vocabulary to be applied to the value

of the property or a syntax for the value of the property

Any of the elements may have nested lists and may include URIs when

Reference: a link to the specific reference for the property or notice of a property created by the group

#### Requirement: whether the property is required, recommended or optional

- Required must be contained within the new metadata record
  - Recommended must be supplied to the new metadata record when available from the original object; the new metadata record is still considered complete in absence of this element
- Optional recognized as useful, but the new metadata record is still considered complete in absence of this element

### The OER Metadata Rosetta Stone: Core Elements

Required

Recommended

Optional

Title

Author/Creator

Subject

Description

Language

Date

Material Type

Media Format

Rights Holder

License Description

License Title

License URL

Audience

Contributor

Editor

Table of Contents

File Type

File Size

Duration

Identifier

Peer Review

**Education Level** 

Course Title

Course Identifier

Alternate Title

**Edition Statement** 

Page Count

Publisher

Provider

Place

Provenance

Relationship

Is Ancillary

Has Ancillaries

### Current Status & Next Steps



Untitled CC0, Pixnio

- Review from other stakeholders like Open Textbook Network, and Library of Congress
- Add Canadian metadata language OpenAIRE
- IMLS grant proposal Fostering Implementation

# Thank you!

Questions?

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**Bill Jones**, SUNY Geneseo
Digital Resources and Systems Librarian
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**Presentation Handout** 

