## DIGITAL INFRASTRUCTURE FOR A SCALABLE EXCHANGE OF SENSITIVE AND PROPRIETARY USAGE AND IMPACT METRICS ACROSS PUBLIC AND PRIVATE STAKEHOLDERS

Ursula Rabar, OA Book Usage Data Trust / OPERAS

Christina Drummond, OA Book Usage Data Trust / UNT





# BACKGROUND

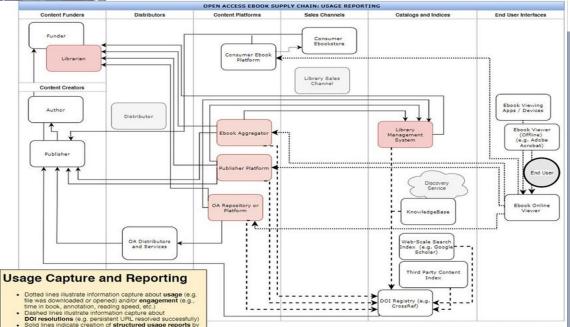


the intermediary for recipients

## OPEN ACCESS EBOOK USAGE DATA SUPPLY CHAIN

Boxes shaded light pink indicate platform intermediaries following COUNTER-compliant reporting standards.





Clarke, M., & Ricci, L. (2021). Open Access eBook Supply Chain Maps for Distribution and Usage Reporting. Zenodo. <u>https://zenodo.org/records/4681725</u>

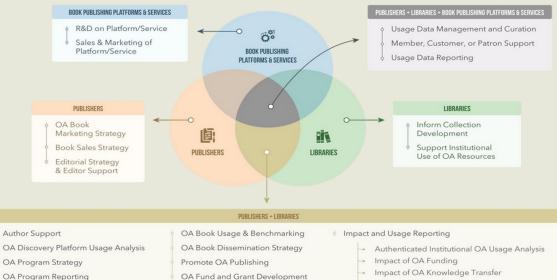






OA Program Budgeting

## HOW STAKEHOLDERS USE BOOK USAGE DATA



Other OA Usage Analysis



Drummond, Christina, & Hawkins, Kevin. (2022). OA eBook Usage Data Analytics and Reporting Use-cases by Stakeholder. Zenodo. <u>https://zenodo.org/recor</u> d/8325578

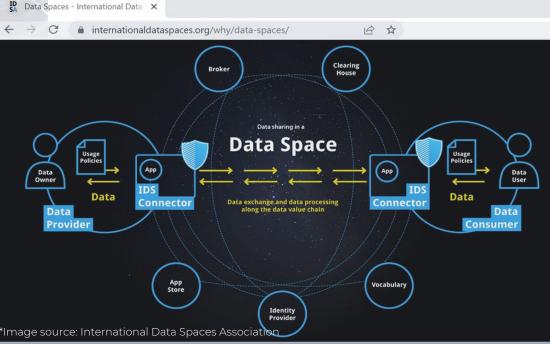




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## ADAPTING EMERGING STANDARDS FOR INTERNATIONAL DATA SPACES



- Adapting existing open source solutions
- Compliant with IDS standards & data space protocol
- Enable controlled IDS exchange of sensitive web analytics about scholarship outputs use

Zero-copy | "As open as possible but as controlled as necessary"



# DATA TRUST COMMUNITY STRUCTURE AND GOVERNANCE



### VISION

Community Governed Sharing of Quality, Interoperable, Open Access (OA) Book Usage Data

## MISSION

To champion strategies for the improved publication and management of OA books by exchanging reliable usage data in a trusted, equitable, and community-governed way.

## 2024 BOARD OF TRUSTEES

Charles Watkinson, UoM Publishing Jennifer Kemp, Stratos Consulting Jo Lambert, JISC/IRUS John Lenahan, JSTOR/ITHAKA Jon Elwell, EBSCO/GOBI Sherine Eid, Bibliotheca Alexandrina Vivian Berghahn, Berghahn Books Wendy Queen, Project MUSE Tasha Mellins-Cohen, COUNTER Metrics (thru April 2024)

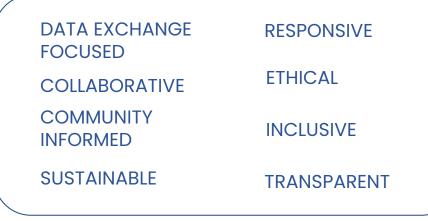
### STAFF

Christina Drummond, Executive Director Hosted at UNT (USA)

Ursula Rabar, Community Manager Hosted at OPERAS (BE)

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## OUR GUIDING PRINCIPLES





Informed by the <u>Principles for Open Scholarly</u> <u>Infrastructure (POSI)</u>

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## RESEARCH PROJECT 2022-2025

## ADVANCING TO LAUNCH BY DEVELOPING IDS GOVERNANCE BUILDING BLOCKS

# DEVELOP GOVERNANCE AND IDS COORDINATING OFFICE

- Board committees & policy
- Trusted data exchange principles
- Fiscal sponsorship
- Accountability mechanisms
- Sustainable budget and staffing model
- Participant Rulebook
- Model participant agreements including data sharing agreement contractual clauses

### STUDY IDS PARTICIPATION REQUIREMENTS & "RETURNS"

- Evaluate data provider and data recipient benefits and "investments" required to participation
- Model non-grant award cost-recovery mechanisms

### STREAMLINE

• Data space onboarding, management, and accountability processes

PROJECT INVESTIGATORS

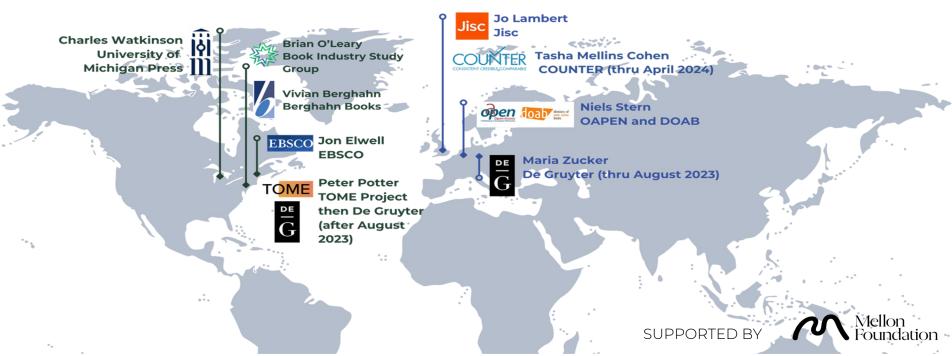
Christina Drummond, OAEBUDT/UNT Prodromos Tsiavos, OpenAIRE Yannick Legré, OPERAS

SUPPORTED BY Mellon Foundation

## RESEARCH PROJECT 2022-2025

## ADVANCING TO LAUNCH BY DEVELOPING IDS GOVERNANCE BUILDING BLOCKS

## **PROJECT ADVISORY BOARD**



RESEARCH PROJECT SEP 2023 - AUG 2024

## SCHOLARSHIP IMPACT DATA VOCABULARIES AND SUPPLY CHAIN

### SCHOLARSHIP USAGE AND IMPACT VOCABULARIES

Jennifer Kemp

Strategies for Open Science

• Crosswalk usage and impact related vocabularies across scholarship outputs and disciplines

# DATA SUPPLY CHAINS FOR JOURNAL & DATA USAGE AND IMPACT

Laura Ricci and Michael Clarke *Clarke & Esposito* 

• Document usage data supply chains and consider extensibility to book usage

Deliverable: Vocabularies Crosswalk

Deliverable: Report with Supply Chains

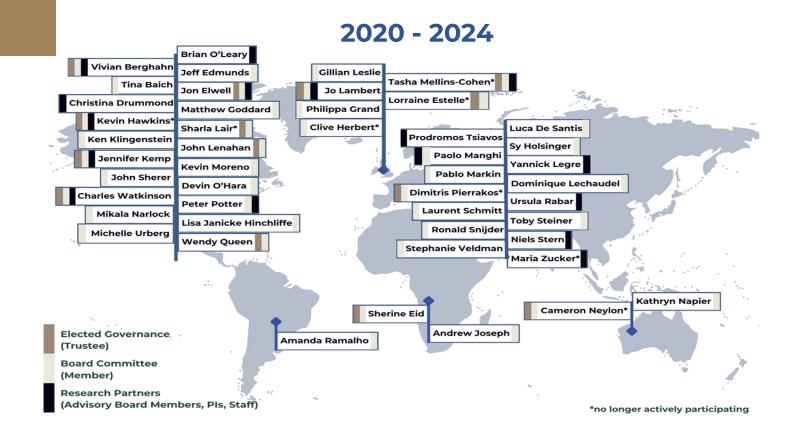




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## OA BOOK USAGE DATA TRUST EFFORT GOVERNANCE AND ADVISORS





# OA BOOK USAGE DATA TRUST IDS RULEBOOK



## OUR DATA SPACE RULEBOOK PROVIDES TRANSPARENCY TO INCREASE TRUST

## ORGANIZATIONAL GOVERNANCE

- Mission, vision and purpose
- Governance model and processes
- Staffing

#### DATA FOCUSED PRINCIPLES

- Data transfer
  requirements
- Data processing
  principles
- Data usage principles

#### TECHNICAL PROCESSES

- Technical standards
- Security standards
- Core data space service descriptions and requirements

#### PARTICIPANT-FACING PROCESSES

- On and off boarding
- Compliance
  mechanisms









## RULEBOOK DEVELOPMENT | 13+ MONTHS

#### IN-PERSON DATA EXCHANGE & USE GUIDELINES & PRINCIPLES WORKSHOP

April 2023 22 participants, 12 hours

Initial set of principles





#### **COMMUNITY CONSULTATIONS**

2023 - 2024

100+ participants via online focus groups, conference-based events, web forms

Iterative feedback on principles

#### **RULEBOOK TASK TEAM**

June 2023 - January 2024 6 participants, 18 hours, 12 meetings Detailed principles development

> James Watson, Taylor & Francis John Lenahan, Jstor/ITHAKA Jon Elwell, EBSCO/GOBI Jo Lambert, JISC/IRUS (thru July '23) Niels Stern, OAPEN/DOAB Pierre Mounier, OpenEdition

#### **RULEBOOK VERSION 0.0**

Published May 2024

Initial terms Inform pilot and contract drafting





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## OA BOOK USAGE DATA TRUST IDS RULEBOOK V.0 TOPICS

#### **SECTION I**

- Purpose
- Scope
- Audience
- About the OAEBUDT-IDS

#### SECTION II DATA PROVIDER & DATA RECIPIENT PARTICIPATION TERMS & CONDITIONS

- Required data disclosures to support data quality and participant trust
- Data sharing and use policies

### TRUST SUPPORT VIA IDS COORDINATING OFFICE

- Accountability mechanisms
- IDS governance mechanisms
- IDS coordination & administration









### SECTION III TECHNICAL OVERVIEW

Deferred development to technical pilot stage

- Standards applied & supported
- IDS service descriptions
- IDS service providers
- Participant processes



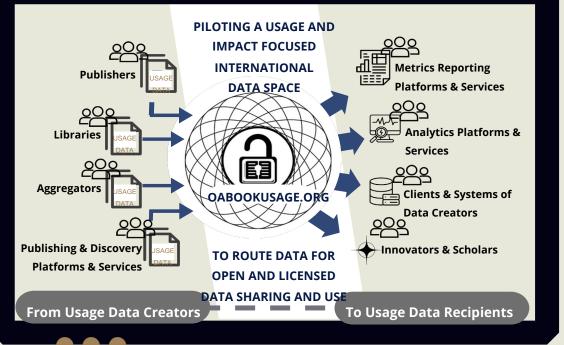
# OA BOOK USAGE DATA TRUST IDS PILOT



## **OAEBUDT-IDS "ALPHA" PILOT**

Connect and route scholarship usage data feeds via the first scholarly communications data space (IDS)

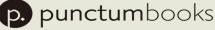
### MVP: COUNTER-compliant Book and Chapter item metrics



### Alpha Cohort will:

- Participate in ROI study
- Inform the data model
- Explore extensibility







## **ALPHA PILOT OUTPUTS**

### **Technical Diagrams**

• System architecture diagram

### **Operational Data Space**

- Sandbox environment
- Production environment

### Documentation

- Data inventory
- Technical roadmap
- Rulebook sections
- Onboarding materials

# INVITATION TO JOIN

### **BETA PILOT COHORTS** (2024-2025)

- Confirm IDS cost/Benefits (ROI study)
- Test refined processes & streamlined onboarding
- Pilot agreements / contracts
- Explore IDS extensibility to other OA usage

Teams of collaborating usage data creators, reporting and analytics service providers welcome to join

Committed beta partners EBSCC (so far)



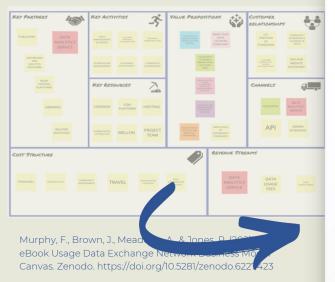


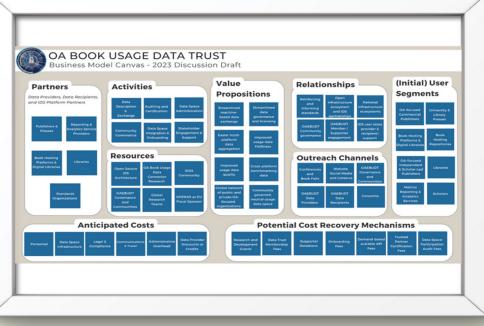
# OA BOOK USAGE DATA TRUST SUSTAINABILITY MODEL



## DEVELOPING A SUSTAINABLE MODEL

Initial 2021 model refined and expanded in 2023





Drummond, C. (2023). OA Book Usage Data Trust Business Model Canvas - 2023 Discussion Draft. Zenodo. https://doi.org/10.5281/zenodo.11237517

## ENGAGING STAKEHOLDERS IN SUSTAINABILITY MODEL DEVELOPMENT

### **IN-PERSON & ONLINE COMMUNITY CONSULTATIONS**

#### **Open Workshops:**

- November '23 Charleston (US)
- February '24 R2R (UK)
- April '24 OPERAS (Croatia)

#### **Open Focus groups:**

• March '24 (online)

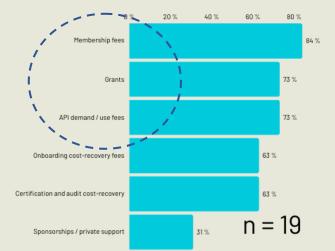
#### **OAEBUDT Governance Polls**

- Board of Trustees
- Membership and Sustainability Committee

#### Feedback on:

- Pros and Cons
- Which methods are trusted
- Potential benefits and pricing structures

#### 49 participants across all events



\*Results of polls at the Charleston and R2R workshops

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## MEMBERSHIP STRUCTURE DRAFT

Framework resulting from consultations



#### MEMBERSHIP MODEL (APRIL 2024 DRAFT)



#### GENERAL PUBLIC

Watch, study, and learn from our efforts

- Open web-based resources
  - use cases
  - best practices
  - documentation
  - code

Free Public Access

- Announce listserv
- Access to event calendar & recordings



SUPPORTING MEMBERS

Lift up and support robust, diverse infrastructure community

- Member events & communications including quarterly stakeholder roundtable with staff
- Support inclusive interoperability through
- regional support and participation subsidies
- Recognition
  Plus all public benefits

Fee based on type, consortia and location



ORGANIZATIONAL MEMBERS

#### Use the Data Trust's International Data Space

- IDS data flow access management
- IDS data exchange (up to a set level of API calls/month)
- Technical support
- Inform technical dev.
- Participate in governance
- Recognition

Plus all Supporting Member and public benefits

Fee based on location and annual budget Coming soon to Zenodo:

- Model development report
- Community consultations results



# OA BOOK USAGE DATA TRUST RESOURCES

## AVAILABLE RESOURCES

#### ZENODO COMMUNITY

Access all project's outputs (IDS Governance Building Blocks):

https://bit.ly/4bHg2rd



### **EVENTS**

Find our future events:

https://www.oabookusage.org/events



### **ANNOUNCEMENTS LIST**

Sign up for our announcements list:

#### https://bit.ly/3q00nkh



### **CONTACT US**

Get it touch with the team:

https://bit.ly/44YvXil



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