MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

111 Liberty St., Suite 100
Columbus, Ohio 43215
www.morpc.org

NOTICE OF A MEETING
REGIONAL INFORMATION & DATA GROUP (RIDG)
MID-OHIO REGIONAL PLANNING COMMISSION
111 Liberty Street, Columbus, Ohio 43215

IN-PERSON Meeting with Hybrid Option Available
May 14, 2025, 2:30 pm – 4:00 pm

AGENDA

1. **Welcome & Introductions –** *Ethan Hug*

2. **Updates –** *Dave Dixon*
   - **MORPC Updates**
     Dave Dixon announced the launch of the MORPC Insights Platform, which aims to provide more data and insights at users' fingertips. The platform uses existing data and tools, such as ArcGIS Online, to make frequently requested items easily accessible. The platform operates under the principle of 'no new data' and 'no new tools,' utilizing existing resources to provide valuable insights without the need for additional data collection or new software.

     Dave also shared that MORPC now has a Data & Mapping Resources page on their website. This page includes links to the Insights Platform, Population Resource Hub, Mid-Ohio Open Data Site, and Leaders Listen Survey Series materials.

     Dave reported that the Leaders Listen Economic Development Report was published and can be accessed from the Data and Mapping Resources page on MORPC.org. The report covers topics such as transportation, environmental sustainability, housing, and economic development.

     Dave went on to announce the first-ever Economic Development Academy at MORPC, which will consist of sessions aimed at public officials, decision-makers, and agency administrators. The first class will be held on August 7, 2025, and interested participants can email Padmini Roy-Dixon for more information.

   - **RDAC Updates**
     Member Wilson discussed the Data Coaches Working Group listservs, which are meant to connect individuals between RIDG and COGUG meetings and to facilitate continuous communication and collaboration. Participants can join the listservs by scanning a QR code and registering for the Data or GIS listservs.

Adam Porr provided an update on the Workforce Tracking Working Group, which focuses on capturing and evaluating job quality data and equity gaps in the workforce system. The Group has developed standards for job quality and is seeking feedback on their fact sheets. Participants interested in job quality or who know someone who might be can access the fact sheets and provide feedback through a QR code or URL shared in the chat.

3. **Topic Discussion**
   - **Automating/Simplifying data governance –** *Christina Drummond (RDAC Chair)*
     APIs, Persistent Identifiers (PIDs) and standardized metadata facilitate impact data use at scale, substantial time and human resources are required across legal, privacy, and data teams to authorize, track, normalize, compile, and link sensitive metrics received from an ever-increasing number of platforms and services.

     This talk will highlight outputs and lessons learned that have advanced a neutral, global data intermediary infrastructure to facilitate machine actionable impact data sharing between parties, supported by compliance and trust controls. Foundational research and results from a national infrastructure workshop will be summarized, prior to an introduction of the OA Book Usage Data Trust's efforts to develop and pilot a minimum viable "International Data Space" in line with emerging European requirements for certifiable data-intermediary infrastructure. Christina Drummond will introduce the emerging Dataspace Protocol and provide history around its Reference Architecture Model, prior to noting how both are being adapted for use by scholarly communications stakeholders seeking to exchange more granular, sensitive metrics in a more timely fashion to support higher quality analytics.

     RDAC Chair Christina Drummond discussed the concept of data spaces, which allow for secure, auditable data transactions and data sovereignty. Data spaces are designed to support multi-party data sharing while ensuring data remains under the control of the data owner, addressing risks and increasing trust at the protocol level.

     European Data Strategy
     Christina shared her experience working with the European data strategy, which aims to unlock data sharing across industries through a unified protocol, supported by the European Commission's Horizon Europe program.

     Technical Standards
     The data space protocol is an emerging technical standard, currently a draft in front of the International Standards Organization (ISO), aiming to become a global standard for secure data sharing.

     Christina explained the Data Spaces Protocol, which is being developed in Europe to manage data sharing at scale between organizations. The protocol aims to support multi-party data sharing while maintaining data sovereignty and reducing risks. The technical implementation of the protocol includes secure data connectors, machine-actionable data sharing agreements, and dynamic routing of data requests, ensuring peer-to-peer data transfers are authenticated

and logged. The protocol includes a community governance model to oversee data sharing activities, set norms for participation, and address issues such as security breaches and trust violations, providing more control and accountability than current methods.

Open Access Book Usage Data Trust
Christina shared her work on the Open Access Book Usage Data Trust, which focuses on exchanging information about digital book usage to provide insights for authors, publishers, and funders. The project aims to create a data space for scholarly communications. Some of the challenges faced in this project are data sensitivity and regulatory differences. She highlighted the importance of transparency, accountability, and neutrality in data spaces to address these challenges.

European Data Spaces Examples
Christina provided examples of European data spaces, such as the Mobility Data Space, European Data Space for Smart Communities, and the Platoon Project. These examples demonstrate the potential for data spaces to address various challenges and unlock new insights.

Legal and Technical Considerations
Christina and the attendees discussed the importance of legal and technical considerations in implementing data spaces. They emphasized the need for collaboration between legal experts and technologists to ensure compliance with data regulations and support secure data sharing.

4. **Closing Remarks / Adjourn –** *Ethan Hug*
   - **Future Meeting Topic Suggestions and Planning**
     - Future Meeting Topics: General discussion
     - General meeting: **Wednesday, August 13, 2025**, 2:30-4:00pm
       Ethan Hug announced that the next RIDG meeting is scheduled for August 6, 2025, and will focus on the use of artificial intelligence in the nonprofit sector. Participants are encouraged to provide input on the specific topics they would like to hear about.

Please notify Lynn Kaufman at 614-233-4189 or LKaufman@morpc.org to confirm your attendance for this meeting or if you require special assistance.

The next Meeting of the Regional Information & Data Group will be Wednesday, August 6, 2025, 2:30 - 4:00 pm IN-PERSON with remote option available.

Mid-Ohio Regional Planning Commission
Hybrid Meeting

Regional Information & Data Group Meeting

May 14, 2025

Attendees Present:

- Astrid Arca, Cogent Consulting Group
- Mikyung Baek, OSU
- Andy Barker, City of Westerville
- Andrew Bishop, Union County
- Christina Drummond, City of Powell
- Jochen Floesser, Houston-Galveston Area Council
- Rick Frantz, City of Dublin
- Kristen Gillenwater, City of Westerville
- Kirsten Haller, Rev1 Ventures
- Stephanie Joseph, Source Point
- Juliet Klein, Rev1 Ventures
- Bill LaFayette, Regionomics
- Sam McLaughlin, JobsOhio
- Rob Moore, Scioto Analysis
- Evan Naumann, Ohio Health
- Tom Noorkah, City of Columbus
- Kristen Pietras, Franklin County
- Langdon Sanders, City of Dublin
- Kyle Schaper, Licking County
- Kier Scott, Aspyr Workforce Innovation
- Matt Shade, Franklin County
- Bob Shoemaker, City of Westerville
- John Sutliff, Richland County Regional Planning Commission
- Dana Thompson, City of Columbus
- Kristy Wedel, AlignAI
- Jason Werner, Richland County Regional Planning Commission
- Andrew Wilson, City of Hilliard

Staff Present

- Dave Dixon
- Ethan Hug
- Lynn Kaufman
- Jessica Kuenzli
- Adam Porr

AUTOMATING & SIMPLIFYING MULTI-PARTY DATA ACCESS AND USE

BY EXPLORING AND ADAPTING THE EMERGING DATASPACE PROTOCOL

Christina Drummond
Executive Director - OA Book Usage Data Trust
Hosted by the Univ. of North Texas Digital Libraries

Christina.Drummond@oabookusage.org
@cjs_drummond
@oaebu_project

Background

Education

- OSU BS (Social data sciences)
- GW MA (Int'l innovation & data policy, public research administration)

Professional Certifications

- Informational Privacy (IAPP)
- Data Stewardship (GovLab)
- Design Thinking (IDEO)
- International Business (UW)
- *AI Governance Professional – in progress (IAPP)*

Professional Experience

- BI, process optimization/automation, functional requirements gathering; (Chempoint, NPower)
- Data policy (ACLU, OSU),
- International network infrastructures (I2, OAEBUDT)
- Scholarly communications & cultural heritage (Educopia)
- Research admin and impact metrics, (UNT)

Public Service

- Research Data Alliance: Data Stewardship IG, AI Data Visitation IG
- NISO Usage and Impact Metadata WG (forming)
- Regional Data Advisory Committee, Mid-Ohio Regional Planning Commission

The concept of data sovereignty

Helping data owners have control over their data in data ecosystems

Keeping data safe, secure, and accounted for

when data wants to travel at highspeed alongside other data

and interact with other entities

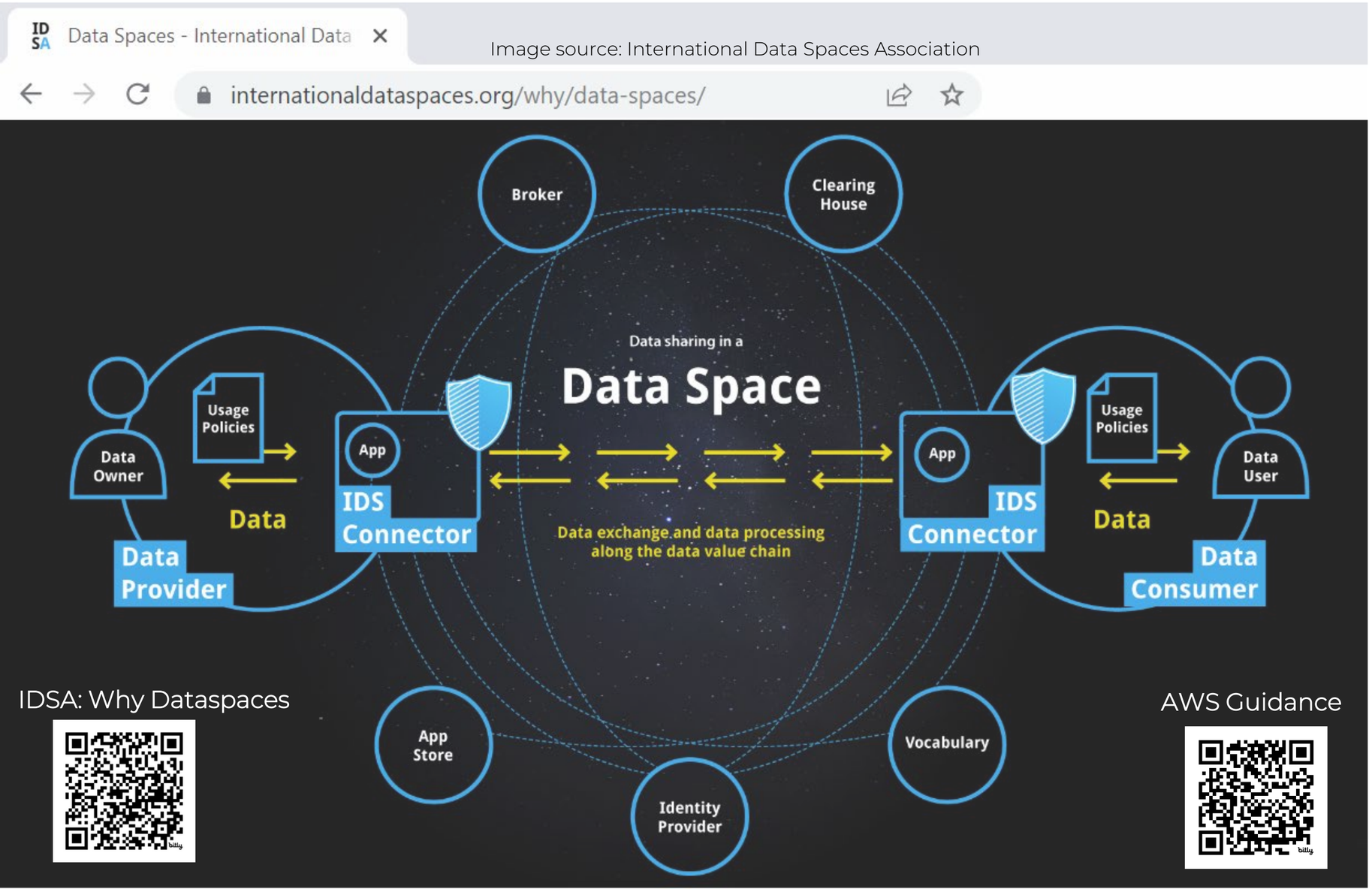
Can more data
(about the data flows)

- increase trust
- free up data for access
- generate new data

The Dataspace Protocol and IDSA network

Protocol level framework for controlled data access management at scale

Image source: International Data Spaces Association



IDSA: Why Dataspaces

AWS Guidance

Technical controls

protect data during transit & processing

- Access
- Privacy
- Cybersecurity

Community Principles & Ethical Guidelines

Set rules for participation, processing, access, and use

Participation terms & accountability measures

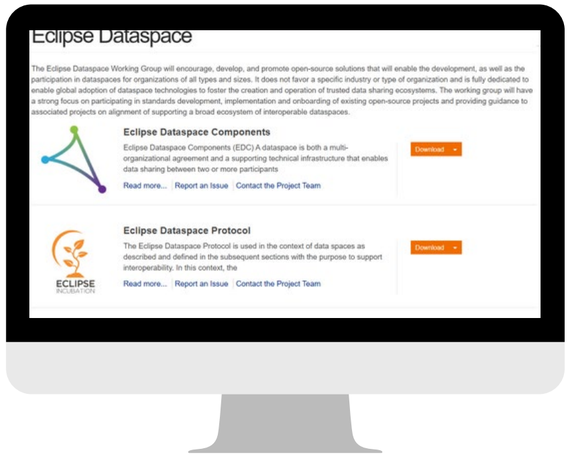
Address non-compliance to retain trust

- Common usage data sharing and use terms
- Shared accountability measures

EMERGING GLOBAL, INDUSTRY AGNOSTIC DATA INTERMEDIATION PROTOCOLS (for an industrial data-mesh)

Nagel, L., & Lycklama, D. (2021). Design Principles for Data Spaces - Position Paper (1.0). Zenodo. https://doi.org/10.5281/zenodo.5105744

github.com/International-Data-Spaces-Association/IDS-RAM_4_0



https://projects.eclipse.org/working-group/eclipse-dataspace

Governance and technology “building blocks” » Reference Architecture » Data connector Protocol (EDC) » Interoperable industry-specific implementations

WHY USE A DATASPACE

Manage partner data access in one place

Replace manual process & data harvesting with automated rules-based data exchange

Facilitate multiparty data access, confidential computation, and auditing

Improve data discovery, metdata and interoperability

eBook usage as a data asset

About our use case – what data our community is trying to exchange

Libraries Need Trusted Data

Author, institutional, funder reports

OA Program Decisions

Research Impact Metrics (CRIS / RIM)

Collection Development

Library staff collate, aggregate, and benchmark metrics for reporting and operations

Library Administration

Press / Publishing Operations

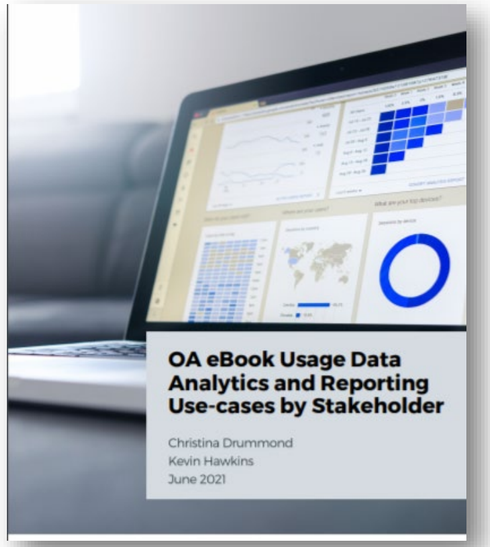
Vendor Negotiations

Trust, quality, timeliness, and data context matters

Developing a Pilot Data Trust for Open Access Ebook Usage

Curtin University | LIBRARY UNIVERSITY OF MICHIGAN | EDUCOPIA INSTITUTE Community Cultivators | BISG BOOK INDUSTRY STUDY GROUP | UNT UNIVERSITY OF NORTH TEXAS

Communities of Practice Focus Groups



OA eBook Usage Data Uses by Stakeholder Type

Drummond C. and Hawkins K., *OA eBook Usage Data Analytics and Reporting Use-cases by Stakeholder* https://doi.org/10.5281/zenodo.5572840

Surfaced detailed insights into analytics demand by institutional role

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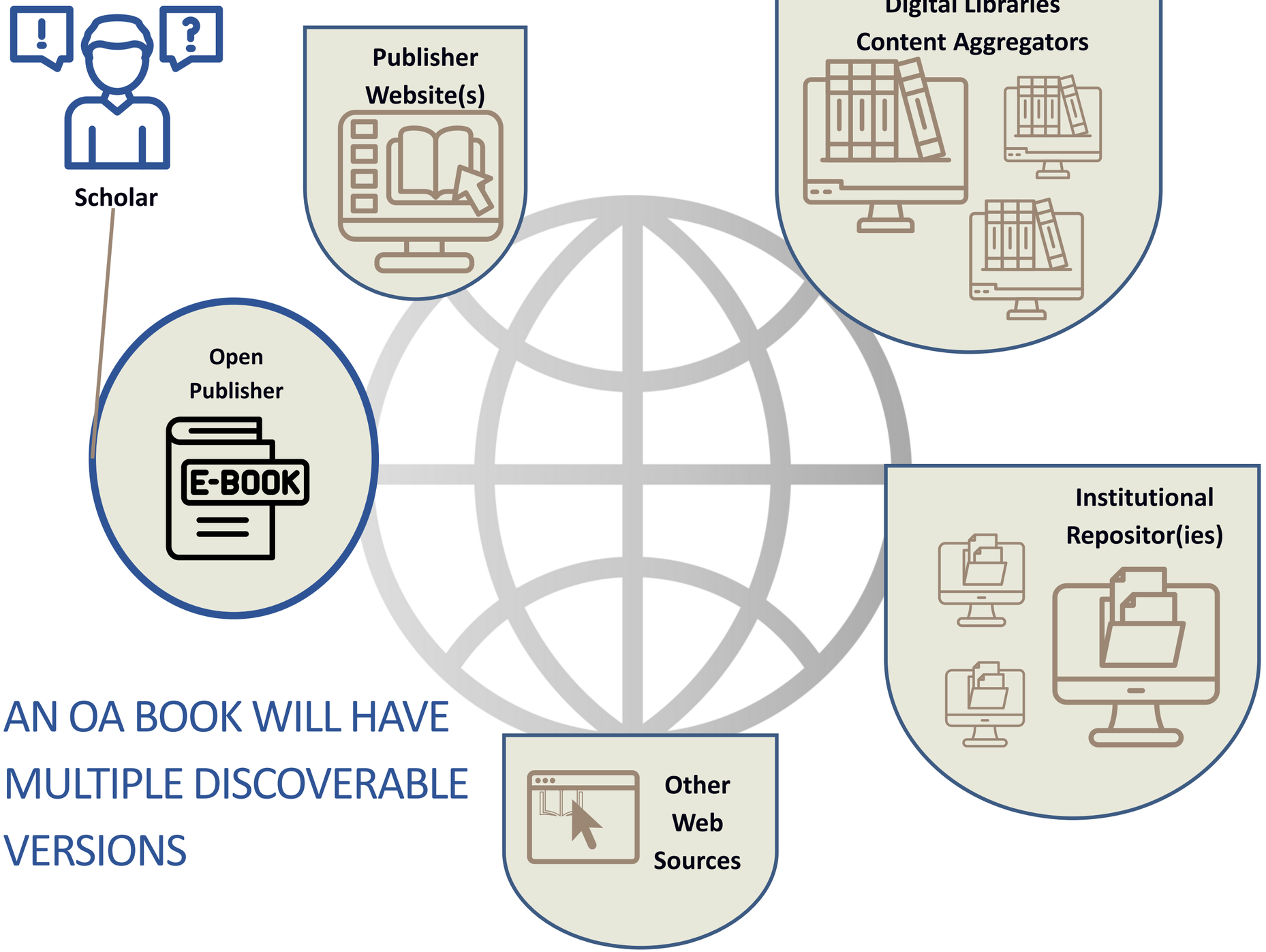
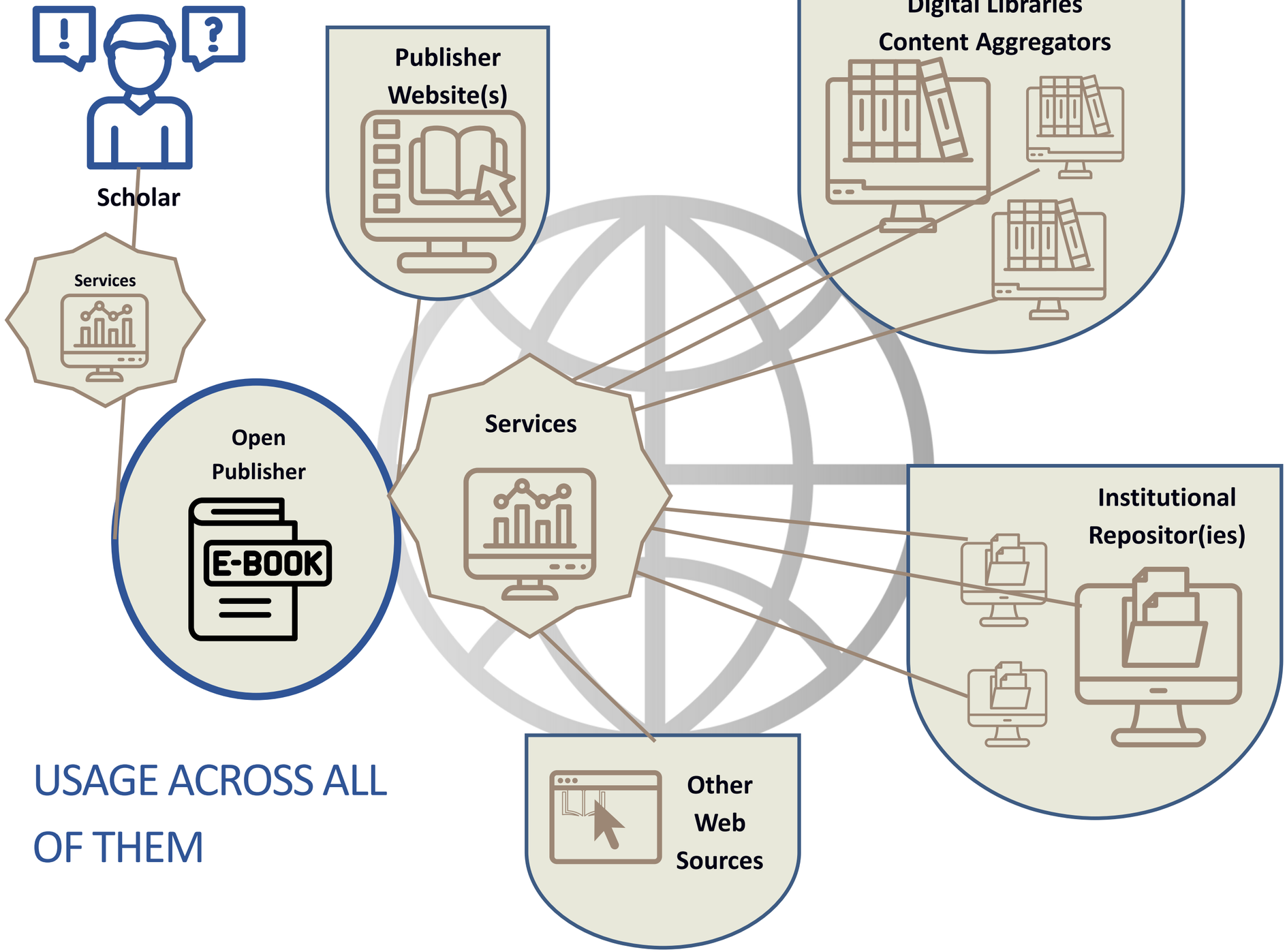
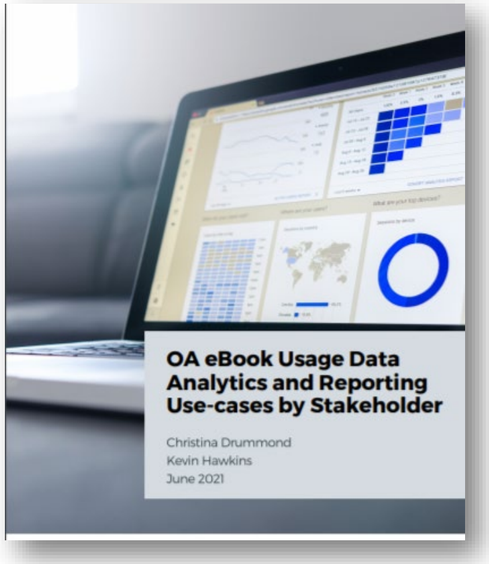


AN OA BOOK WILL HAVE MULTIPLE DISCOVERABLE VERSIONS



USAGE ACROSS ALL OF THEM

Publishers, libraries, vendors all curate, normalize the same data



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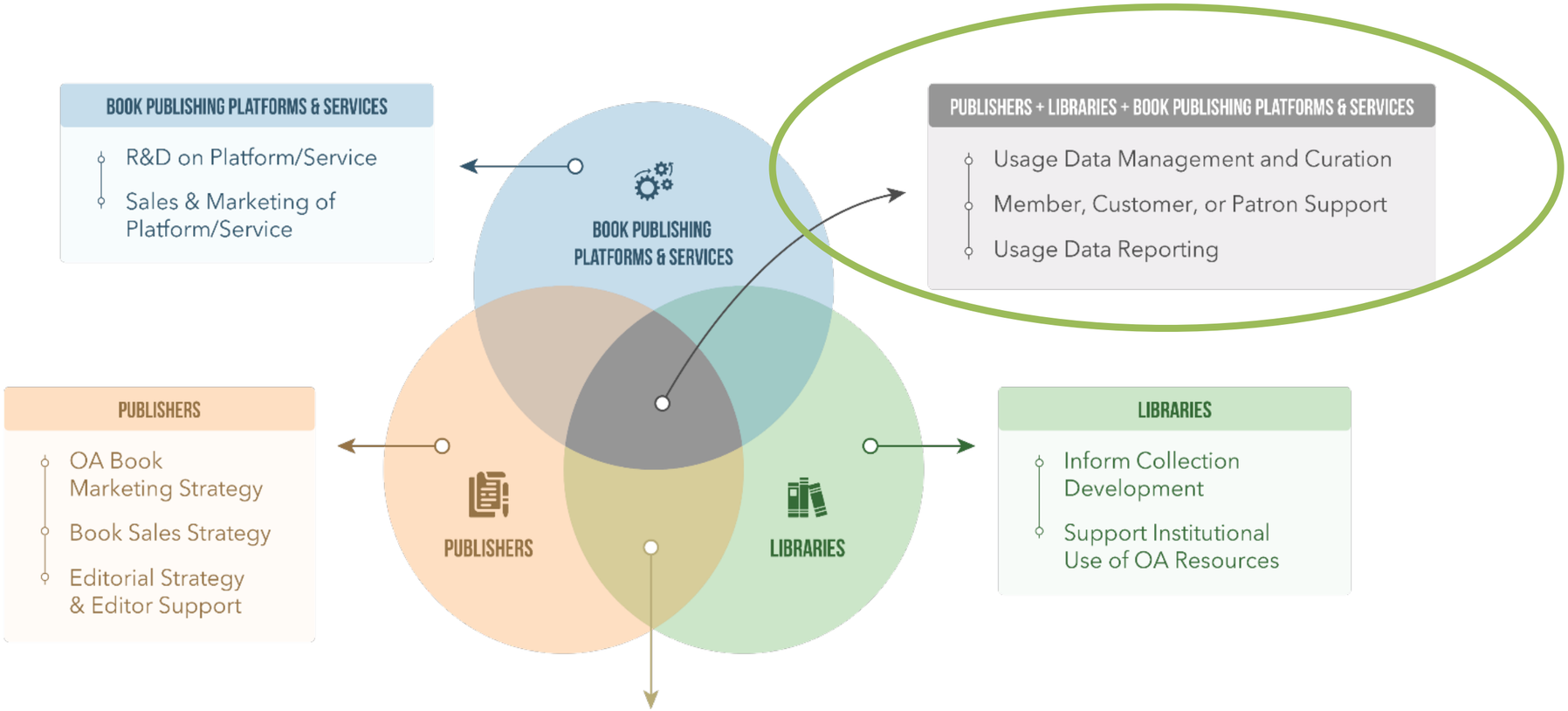

Developing a Pilot Data Trust for Open Access Ebook Usage

Curtin University · Library University of Michigan · EDUCOPIA INSTITUTE Community Cultivators · BISG Book Industry Study Group · UNT University of North Texas

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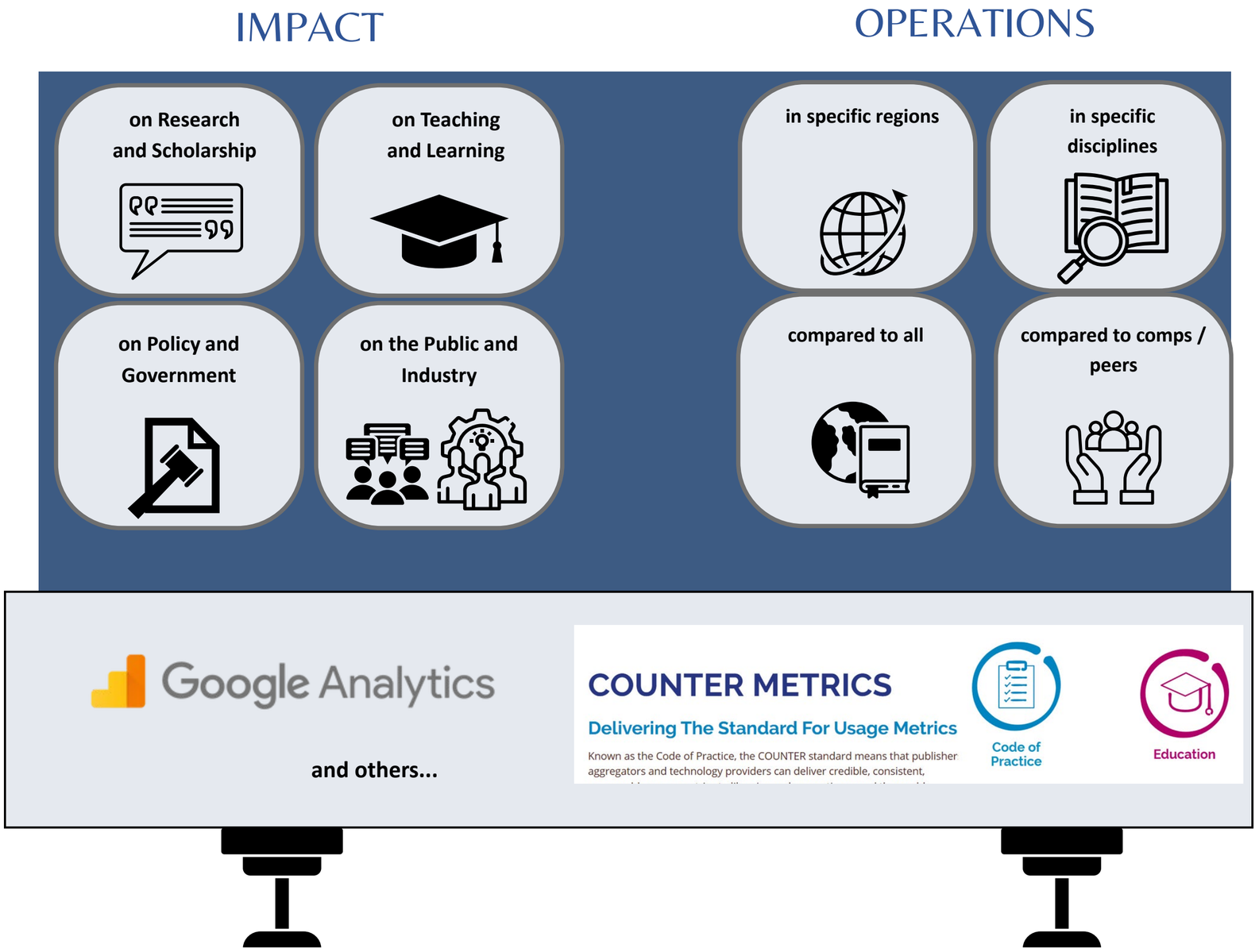
But supporting data comes in lots of varieties…

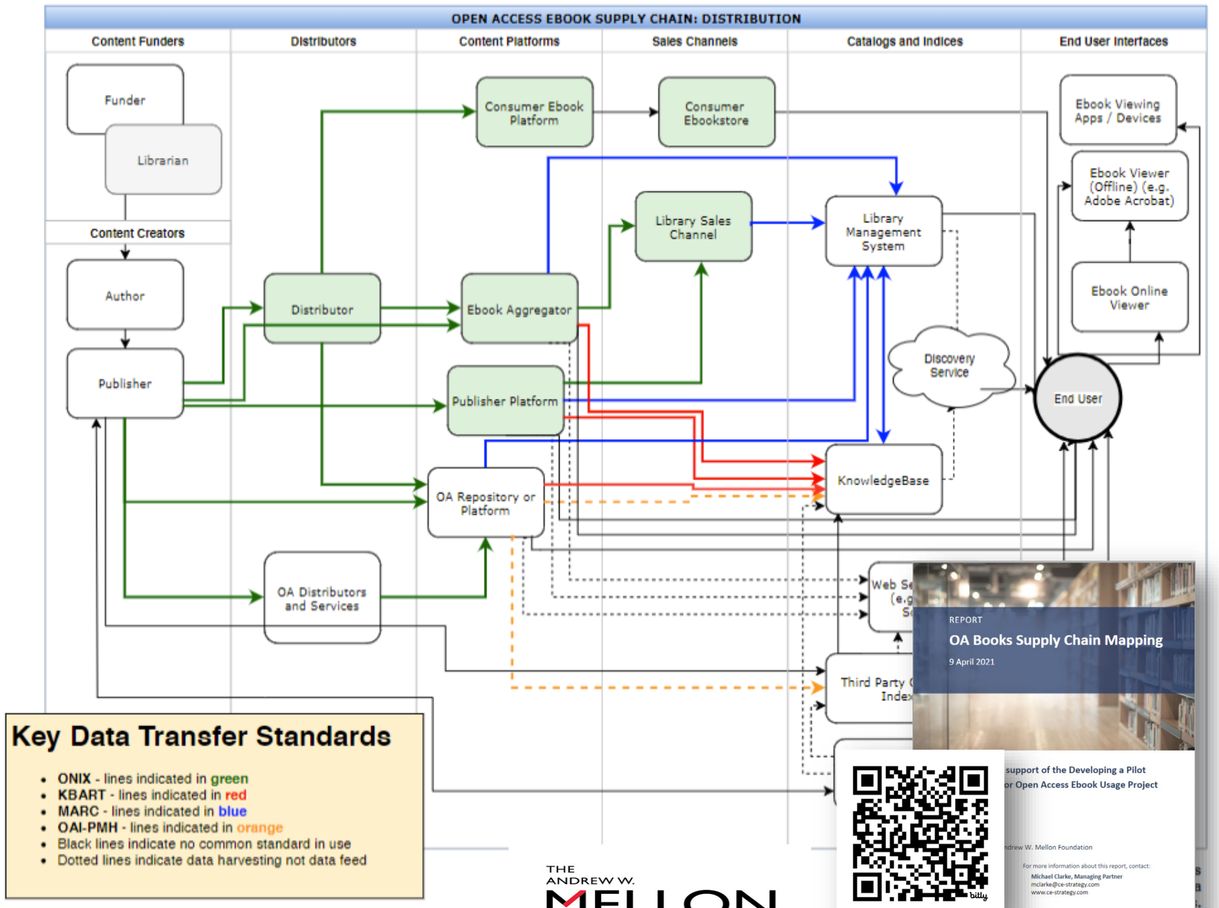
- may be PII (in some jurisdictions)
- may not adhere to industry standard

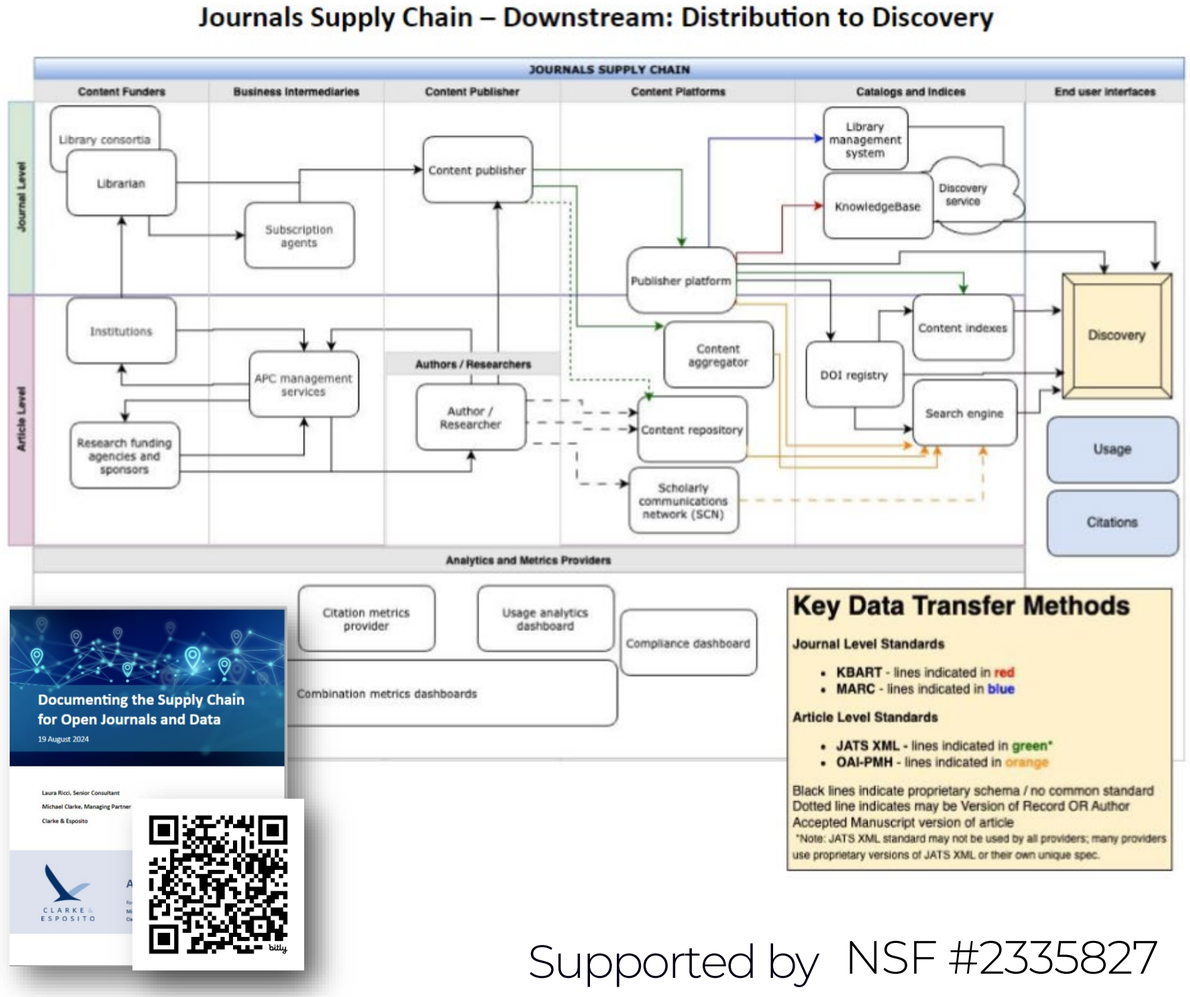


MULTIPLE DATA TRANSFER STANDARDS

Diagrams by Laura Ricci and Michael Clarke, Clarke & Esposito

Comparing Open Books to Open Journals





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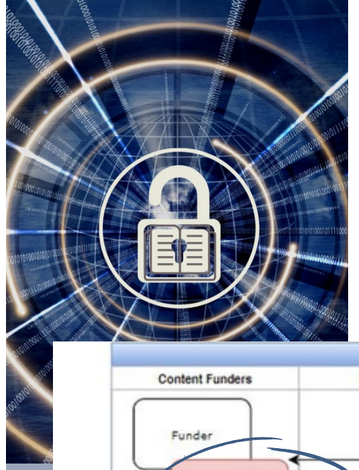
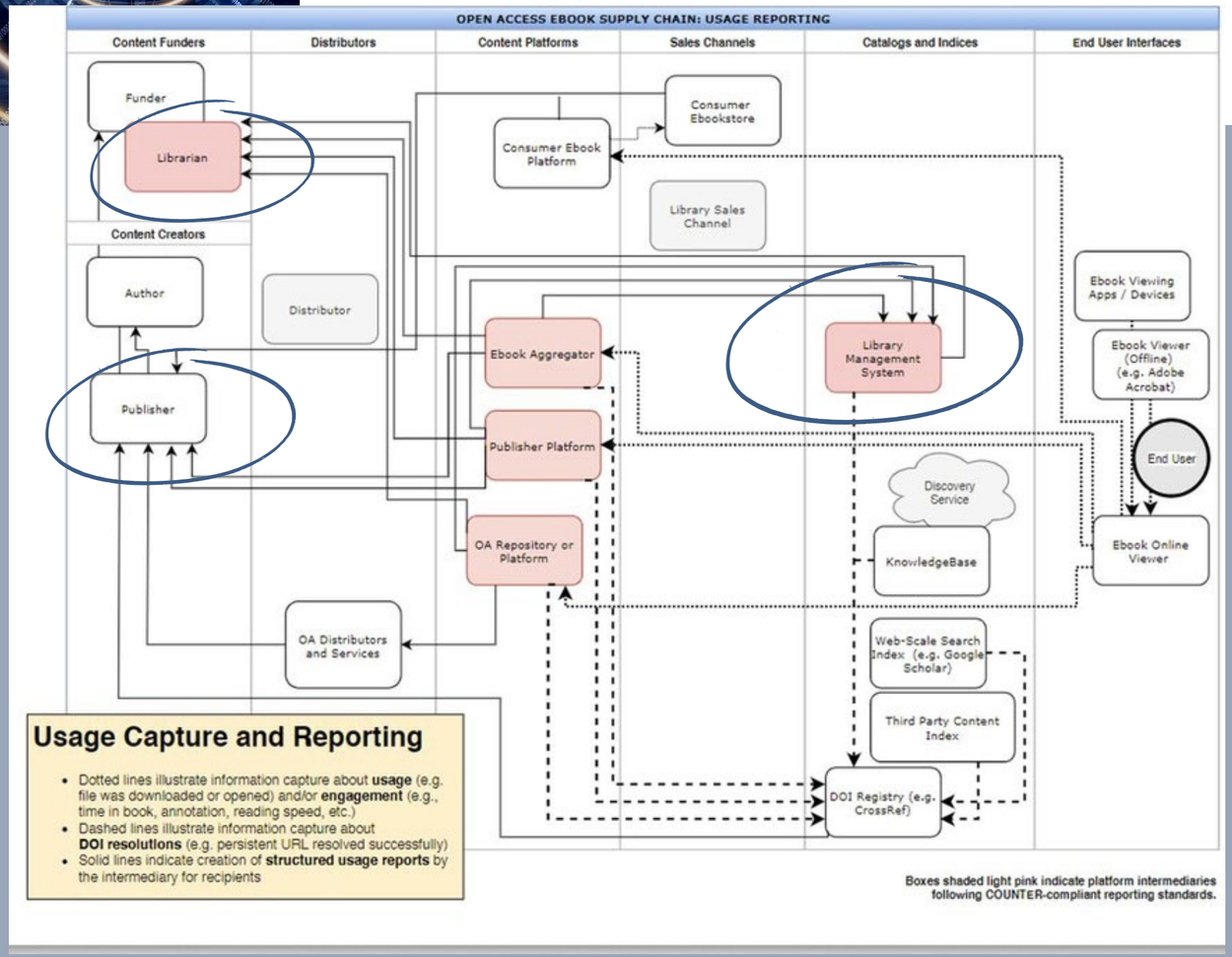
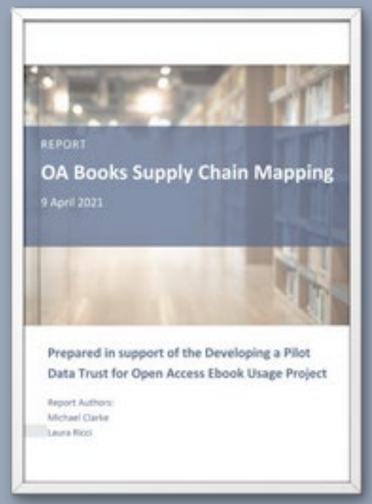
Supported by NSF #2335827



OPEN ACCESS EBOOK
Usage data Supply Chain



Clarke, M., & Ricci, L. (2021).
Open Access eBook Supply Chain Maps for Distribution and Usage Reporting. Zenodo.
https://doi.org/10.5281/zenodo.4681871



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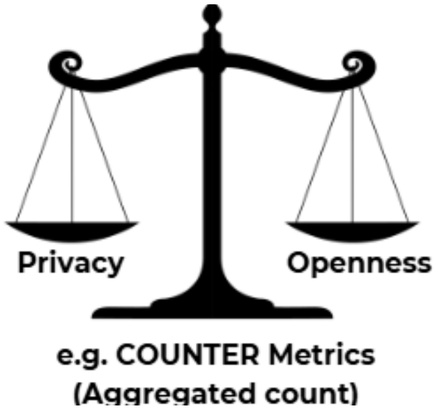
Can the usage data just be made open?


Open Content
Sensitive
Usage Data



e.g. COUNTER Metrics
(Aggregated count)

USAGE DATA SENSITIVITY

"How sensitive are various types of data elements - which can be openly shared and which must be protected with sharing as controlled as necessary?

Item Bibliographic Data

Item ONIX Records

Individual Usage Events by Market Segment

News or Social Media Citations

Educational citations (Syllabi, research publication)

Page annotation activity

Benchmark usage by standard categories (e.g. BISAC)

Viewing duration timestamps

Individual Usage Events by Publisher

Individual Usage Events by Country

Individual Usage Events by Institution

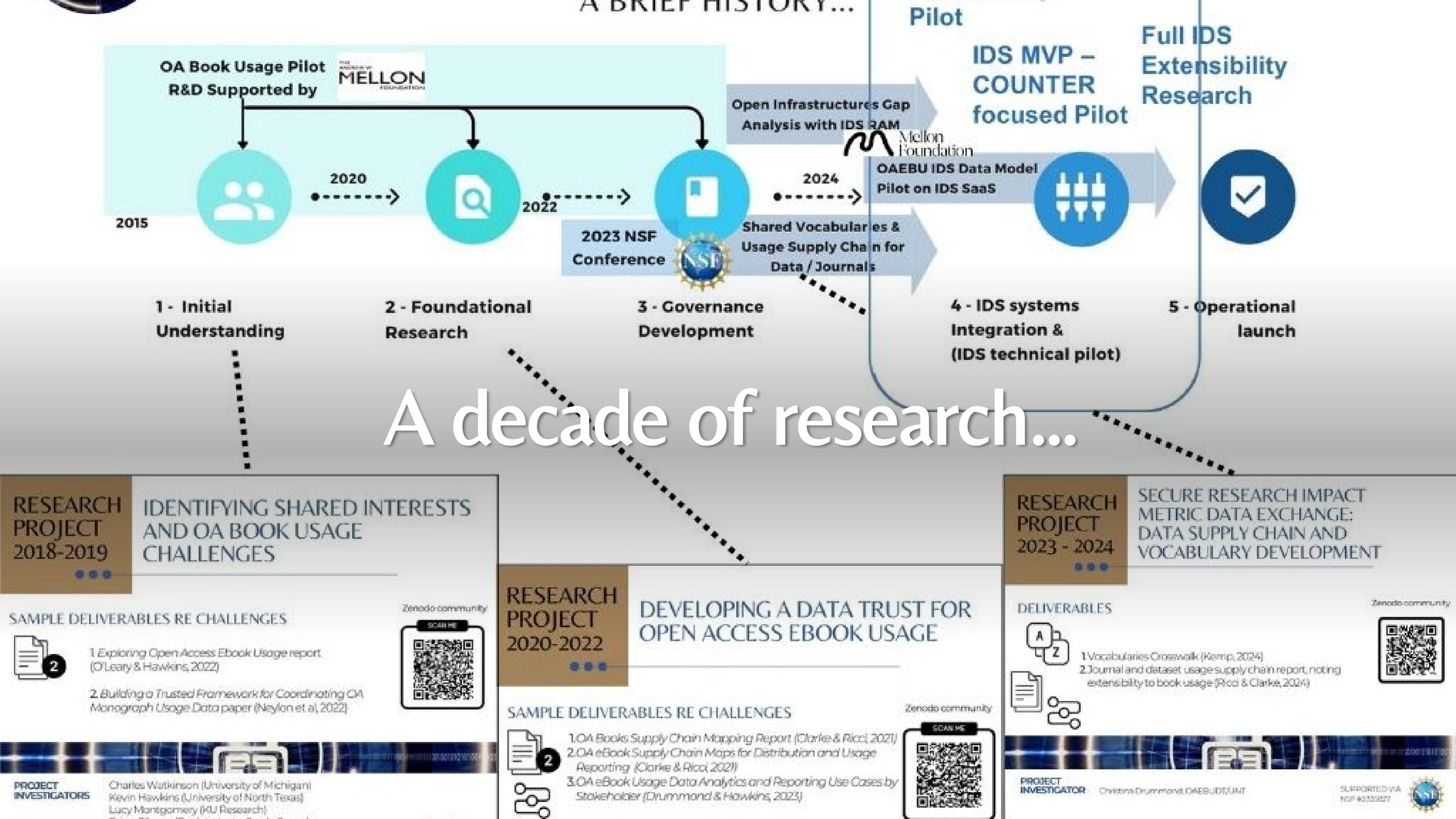
Raw, unprocessed web logs

Individual Usage Events by IP Address

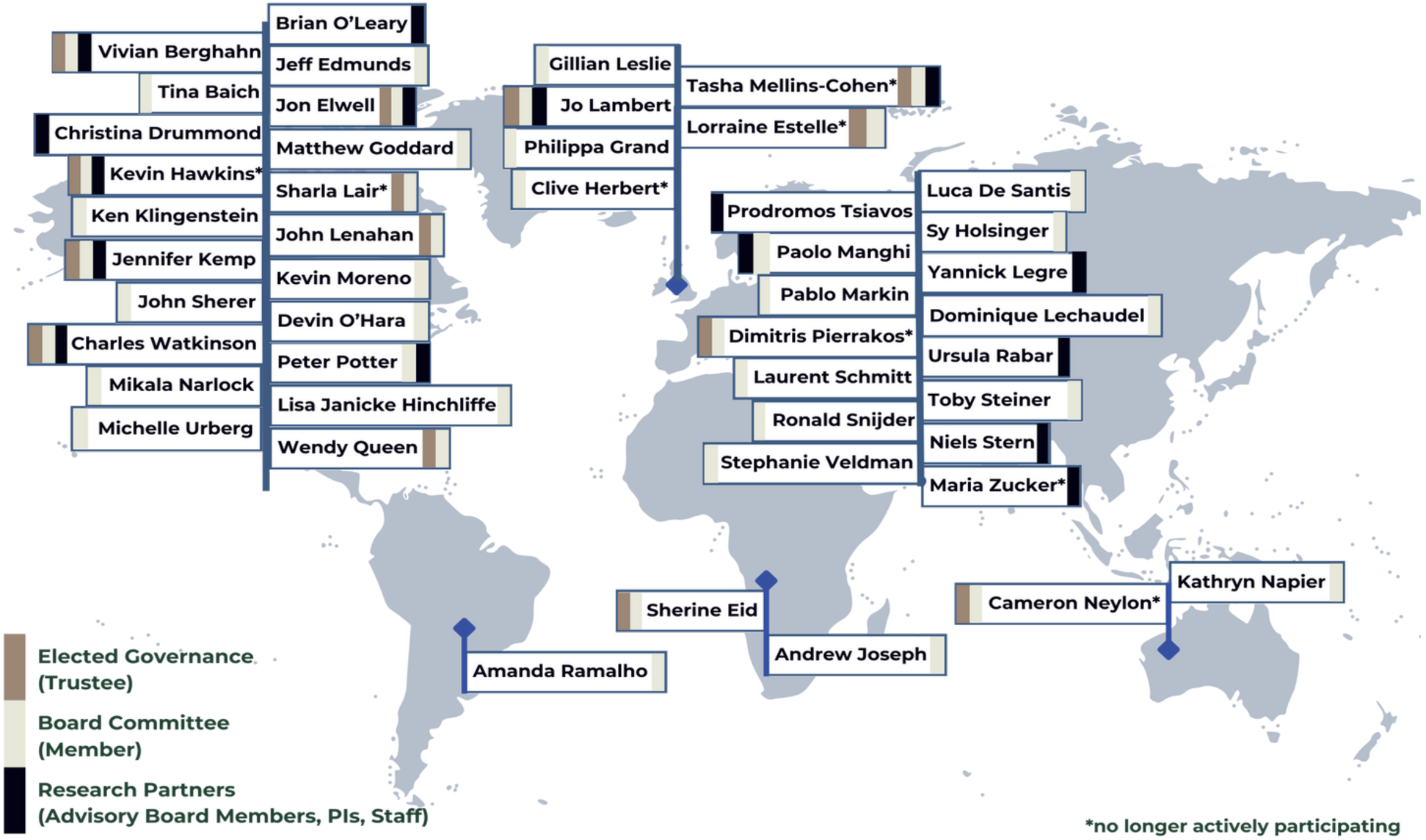
Individual Usage Events by individual person

1 - Non-sensitive

3 - Very sensitive


A BRIEF HISTORY...
OA Book Usage Pilot
R&D Supported by
MELLON
2015
2020
2022
2023 NSF Conference
2024
Open Infrastructures Gap Analysis with IDS RAM
Shared Vocabularies & Usage Supply Chain for Data / Journals
Mellon Foundation
OAEBU IDS Data Model Pilot on IDS SaaS
Pilot
IDS MVP – COUNTER focused Pilot
Full IDS Extensibility Research
1 - Initial Understanding
2 - Foundational Research
3 - Governance Development
4 - IDS systems Integration & (IDS technical pilot)
5 - Operational launch
A decade of research...
RESEARCH PROJECT 2018-2019
IDENTIFYING SHARED INTERESTS AND OA BOOK USAGE CHALLENGES
SAMPLE DELIVERABLES RE CHALLENGES
1 Exploring Open Access Ebook Usage report (O'Leary & Hawkins, 2022)
2 Building a Trusted Framework for Coordinating OA Monograph Usage Data paper (Neylon et al, 2022)
Zenodo community
SCAN ME
PROJECT INVESTIGATORS
Charles Watkinson (University of Michigan)
Kevin Hawkins (University of North Texas)
Lucy Montgomery (KU Research)
RESEARCH PROJECT 2020-2022
DEVELOPING A DATA TRUST FOR OPEN ACCESS EBOOK USAGE
SAMPLE DELIVERABLES RE CHALLENGES
1 OA Books Supply Chain Mapping Report (Clarke & Ricci, 2021)
2 OA eBook Supply Chain Maps for Distribution and Usage Reporting (Clarke & Ricci, 2021)
3 OA eBook Usage Data Analytics and Reporting Use Cases by Stakeholder (Drummond & Hawkins, 2023)
Zenodo community
SCAN ME
RESEARCH PROJECT 2023 - 2024
SECURE RESEARCH IMPACT METRIC DATA EXCHANGE: DATA SUPPLY CHAIN AND VOCABULARY DEVELOPMENT
DELIVERABLES
1 Vocabularies Crosswalk (Kemp, 2024)
2 Journal and dataset usage supply chain report, noting extensibility to book usage (Ricci & Clarke, 2024)
Zenodo community
PROJECT INVESTIGATOR
Christina Drummond, OAEBU/DTUNT
SUPPORTED VIA NSF #2330027

OA BOOK USAGE DATA TRUST EFFORT GOVERNANCE AND ADVISORS 2020-2024



*no longer actively participating

Developing a Pilot Data Trust for Open Access Ebook Usage

Curtin University | Michigan Library | Educopia Institute | BISG | UNT

SUPPORTED BY The Andrew W. Mellon Foundation

Automating OA Book Usage Data Aggregation & Visualization Research

2020-2022 technical deliverables produced by Curtin University:

- GitHub repository of Apache Airflow workflow automation code
  - **fetch, process, and analyze** usage data from DOAB, Google Analytics, Google Books, IRUS-UK, OAPEN, ONIX, UCL Discovery
- Workflow documentation
  - ingest>processing>output of OA book usage data
  - mapping book products
  - linking metrics,
  - exporting results workflows for

https://github.com/The-Academic-Observatory/observatory-platform/projects/19

Developing a Pilot Data Trust for Open Access Ebook Usage

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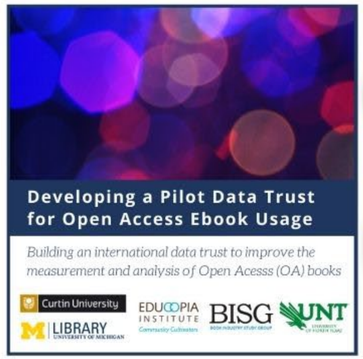

Open Access · COUNTER · OpenAIRE · UCLPRESS · WITS UNIVERSITY PRESS · Jisc · Australian National University PRESS · COPIM · MICHIGAN PUBLISHING UNIVERSITY OF MICHIGAN PRESS · UNC PRESS · SPRINGER NATURE · PROJECT MUSE · MINNESOTA · IIBICRIT CONICET · EBSCO · University of Calgary Press · Crossref · ubiquity press · oaswitchboard · TOME · DE GRUYTER · OpenBook Publishers

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UNDERSTAND DATA ISSUES & ECOSYSTEM	FOSTER COMMUNITY	OPEN-SOURCE PLATFORM R&D	INFORM ROADMAP
• *Exploring Open Access Ebook Usage (2019)*  http://dx.doi.org/10.17613/8rty-5628	• Advisory Board	• Usage Data Aggregation Technical Requirements	• *Legal Analysis (2021)*
• *OA Books Supply Chain Mapping Report (2021)*  https://doi.org/10.5281/zenodo.4681724	• Technical Advisory Group	• *Academic Observatory Github*	• *Data Trust Environmental Scan (2021)*
• *OA eBook Usage Data Analytics and Reporting Use Cases by Stakeholder (2021)*  https://doi.org/10.5281/zenodo.5572840	• Working Groups	• Five publisher dashboard pilots	• *Initial Data Analytics Reporting Business Model Canvas (2021)*
	• Stakeholder Groups	• OAPEN pilot	• *Initial Data Exchange Network Business Model Canvas (2021)*
	• *Engaging Stakeholder Networks to Support Global OA Monograph Usage Analytics* (2020)  https://doi.org/10.5281/zenodo.5567205	• Community feedback	

OA USAGE DATA TRUST COLLABORATIVE

2022-2025

- LAUNCH SECRETARIAT AS SPONSORED PROGRAM
- DEVELOP TRUST AND ACCOUNTABILITY MEASURES
- DEVELOP DATA STEWARDSHIP PROCESSES AND AGREEMENTS
- DEVELOP AND PILOT INTERNATIONAL DATA SPACE FOR OA USAGE DATA

Future Relationship

SMALL TO MEDIUM PUBLISHERS OA EBOOK USAGE DATA DASHBOARD DEMONSTRATION PROJECT

2022-2025

- ESTABLISH GOVERNANCE
- REFINE TECHNICAL MVP SUSTAINABILITY MODEL
- LAUNCH AND SCALE SERVICE THROUGH REGIONAL PARTNERS

OA Book Usage Data Trust
(c/o OPERAS)

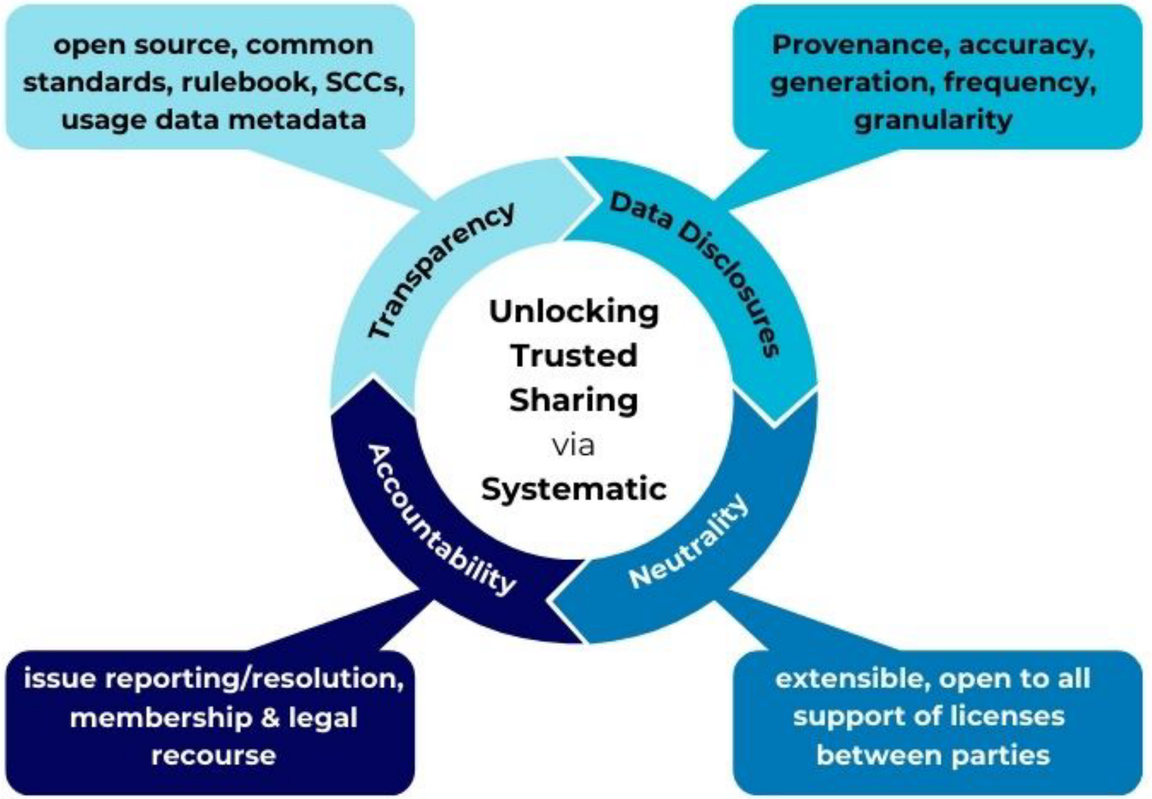
Book Analytics Service
(c/o OAPEN)

Generic data space value proposition c/o IDSA

"to 'enable secure and sovereign data sharing for joint value creation'"

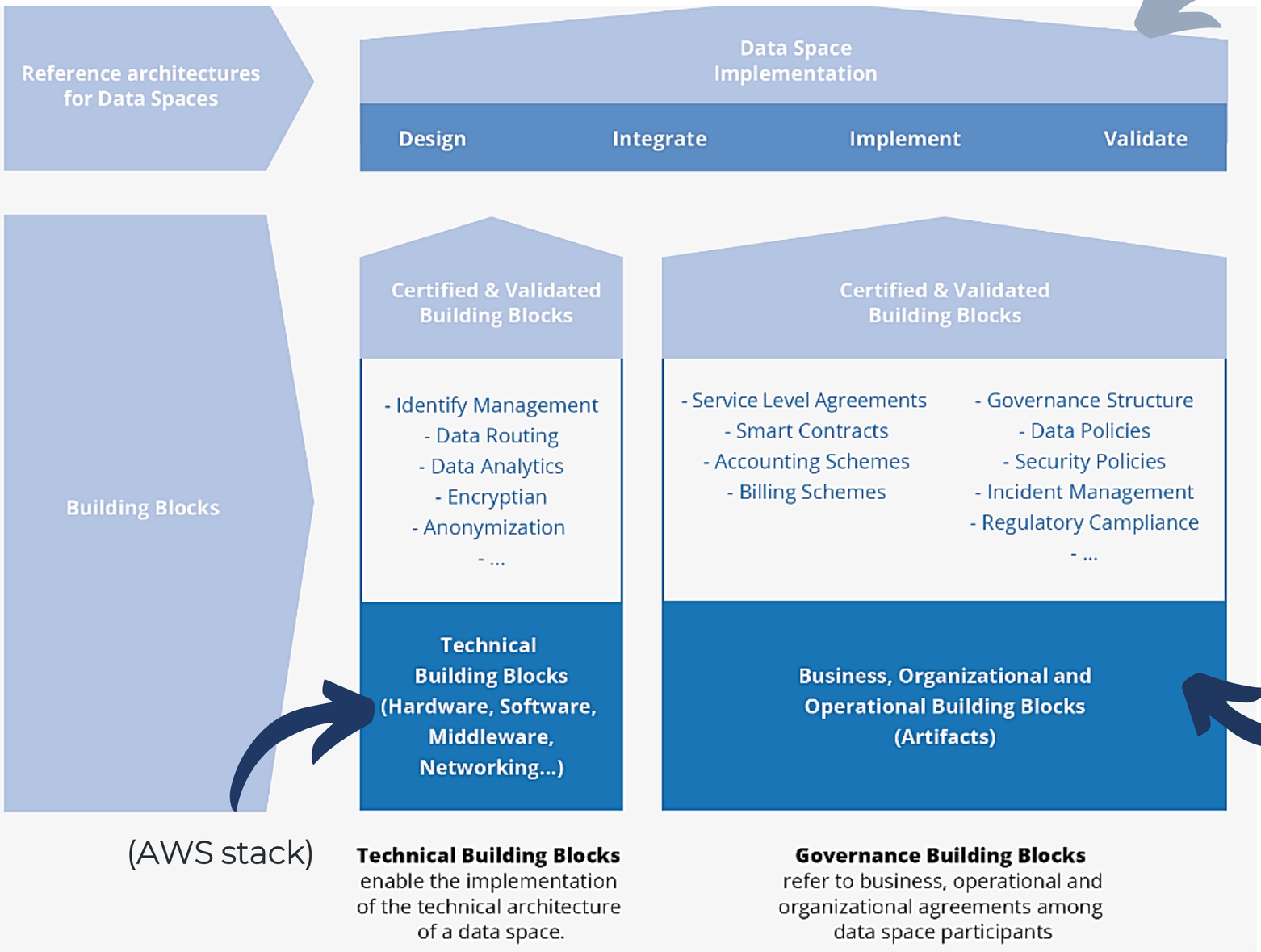
Mertens, C., Verbrugge, S., Herregodts, A.-L., & Kraemer, P. (2024). Data Spaces Business Models (Version 1.0). Zenodo. https://doi.org/10.5281/zenodo.14101303

Real value results from innovative joint products or services made possible via sensitive data discovery and access ecosystem



Piloting Controlled, Audited Data Asset Exchange

Piloting dataspace building blocks via the OA Book Usage Data Trust community effort



(AWS stack)

Technical Building Blocks enable the implementation of the technical architecture of a data space.

Governance Building Blocks refer to business, operational and organizational agreements among data space participants

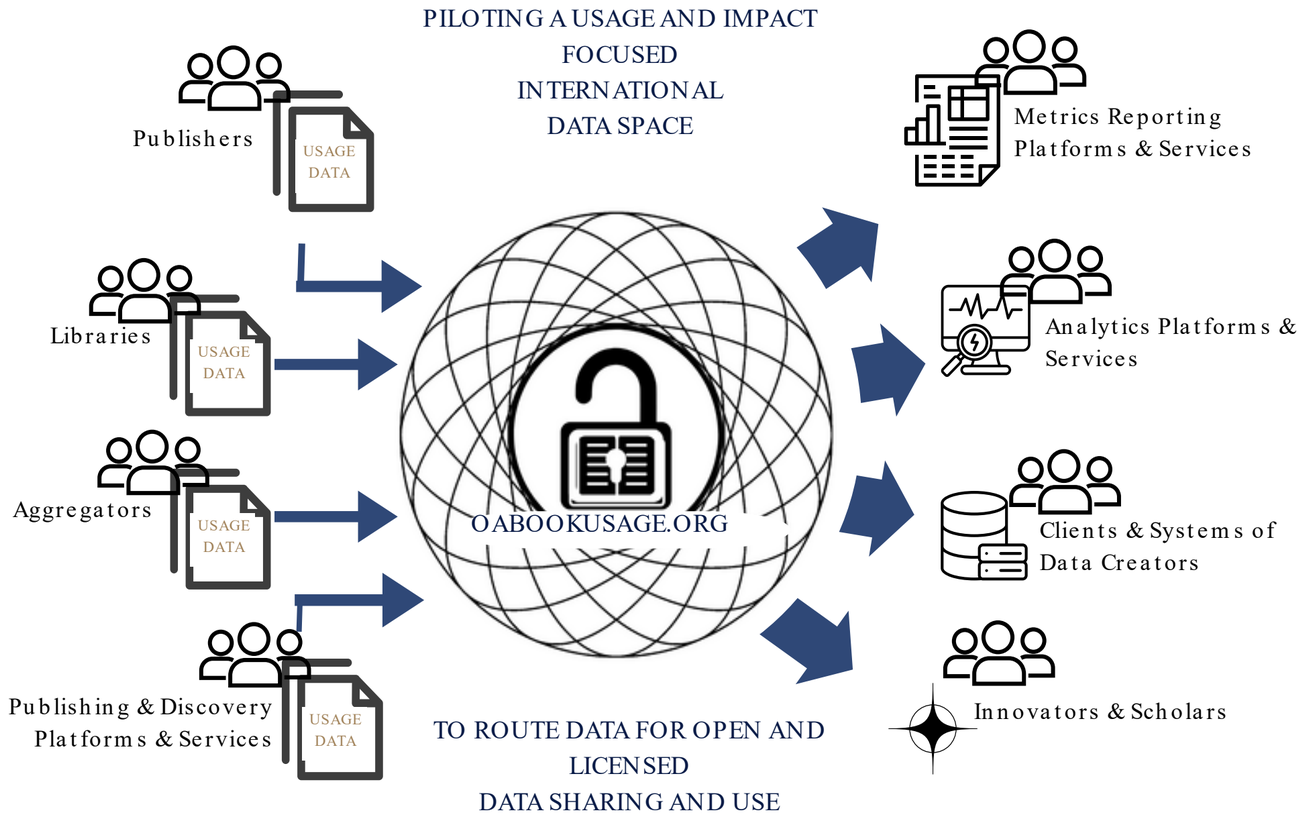
Data space frameworks, reference architecture model and component requirements developed via International Data Space Association (IDSA) working groups *supported via Horizon Europe & GAIA-X (Complementary Effort)*

Data Trust community

Image Source: Nagel, Lars, and Douwe Lycklama. Design Principles for Data Spaces. International Data Spaces Association, 2021, https://doi.org/10.5281/zenodo.5105744

OAEBUDT-IDS “ALPHA” PILOT

MVP: COUNTER-compliant Book and Chapter item metrics



From Usage Data Creators

To Usage Data Recipients

IDS Developers

Think-it

IDS Coordinating Office Fiscal Sponsor

OPERAS
open scholarly communication in the european research area for social sciences and humanities

Alpha Cohort
Data Connector Provider +/or Recipients

Taylor & Francis

MICHIGAN PUBLISHING
UNIVERSITY OF MICHIGAN

JSTOR

punctumbooks

LibLynx
Identity, Access & Analytics

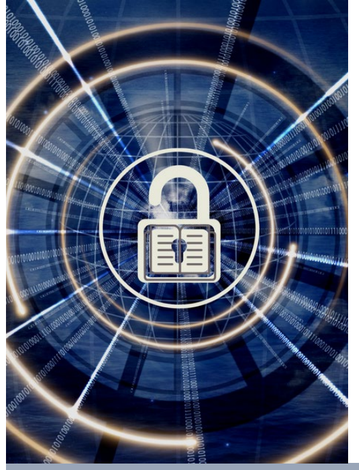
Beta Cohort – Exploring Extensibility
Data Connector Provider +/or Recipients

EBSCO

Open Access
Publishing in European Networks

LONGLEAF SERVICES

LEARN MORE



SCALING SMALL WITH MINIMUM VIABLE PROOF OF CONCEPT

GitHub Repository

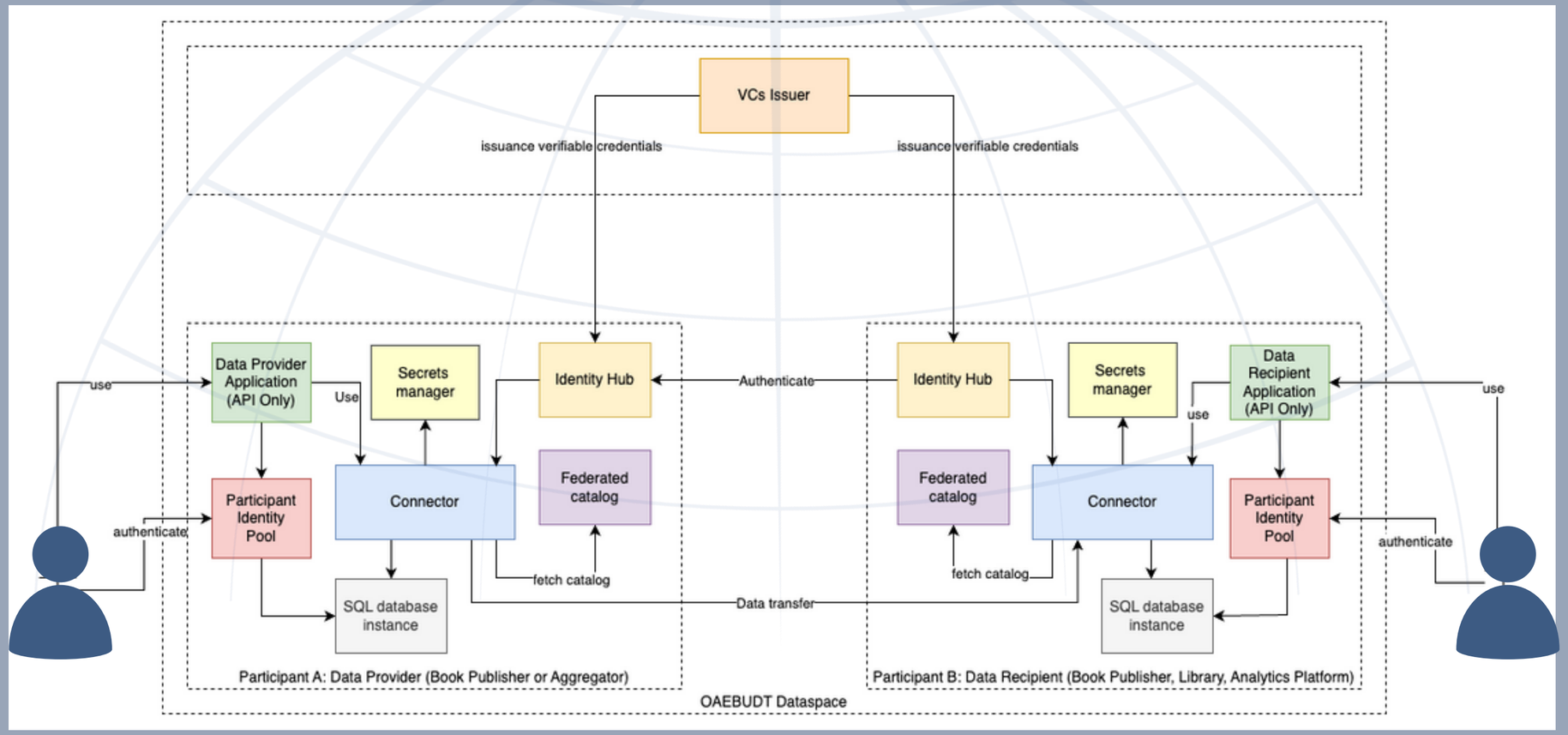


Image adapted from Think-IT Source (2025)

EXPLORING WHAT'S POSSIBLE
2025 PROOF OF CONCEPT DATASPACE MVP

PILOT OUTPUTS (2025)

Technical Diagrams
- System architecture diagram

Operational Data Space MVP
- Sandbox environment
- Production environment

Documentation
- Data inventory
- Technical roadmap
- Governance Rulebook
- Onboarding materials
- IDS value case studies

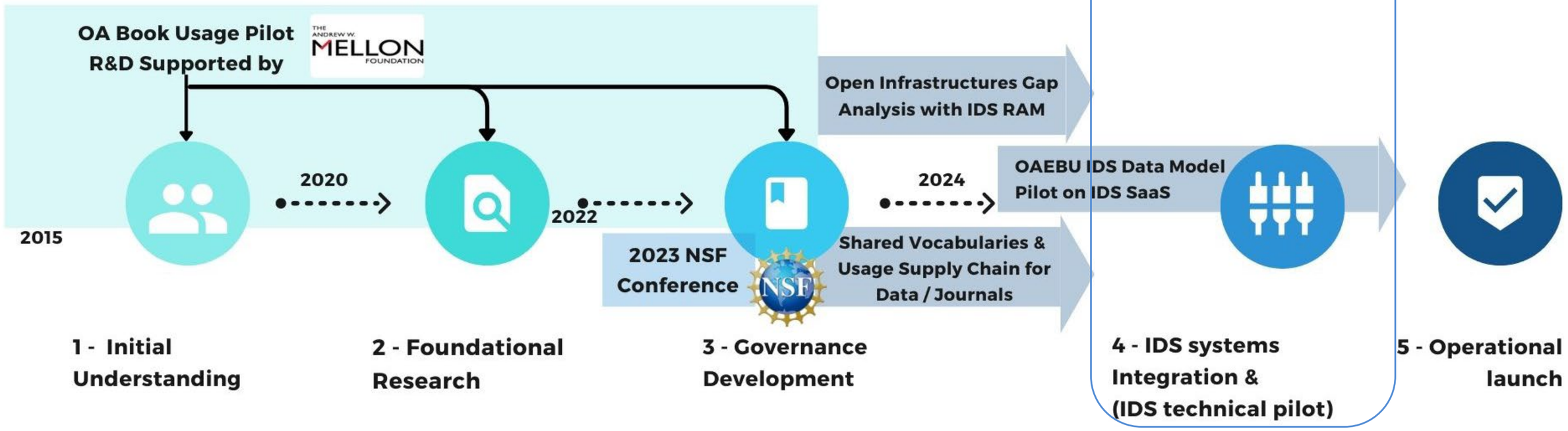
(PENDING FUNDING)

- Launch POC
- Full IDS development
  - Connector Discovery
  - Data provider UI
  - Data recipient UI
  - Auditing reports

- **Explore IDS extensibility to other sensitive scholcom data**

GitHub Repository

A BRIEF HISTORY...



- >$2.6M USD R&D investment to date
  Mellon Foundation (3 awards, >2.45M)
  National Science Foundation (2 awards, 150k)

- 30,000€ supporter investment to date via OPERAS as Fiscal Sponsor
  Michigan Publishing, Project MUSE, eBound Foundation

- Horizon Europe project funded to explore how dataspace can support knowledge graph data provision

Membership marginally covers operations until there is critical mass.
Problem: costs > funding coming in via fees

2 yr funding gap to close to sustain staff, tech, administration to launch MVP/membership

1.24M USD/3yr Governance Building Blocks Grant (Mellon)

Self-Sustaining Dataspace for Scholarly Communications Stakeholders

Valley of Death

Exploring National Infrastructure for Public Access Usage and Impact Reporting

April 2, 2023 workshop is made possible through support from the National Science Foundation (Award 2315721) and the Coalition for Networked Information

Objectives

Share knowledge of current state

Explore how to achieve FAIR usage data "FAIR and CARE to SHARE"

Develop recommendations

Perspectives

Data infrastructures

Consortia

Publishers and platforms

Funders

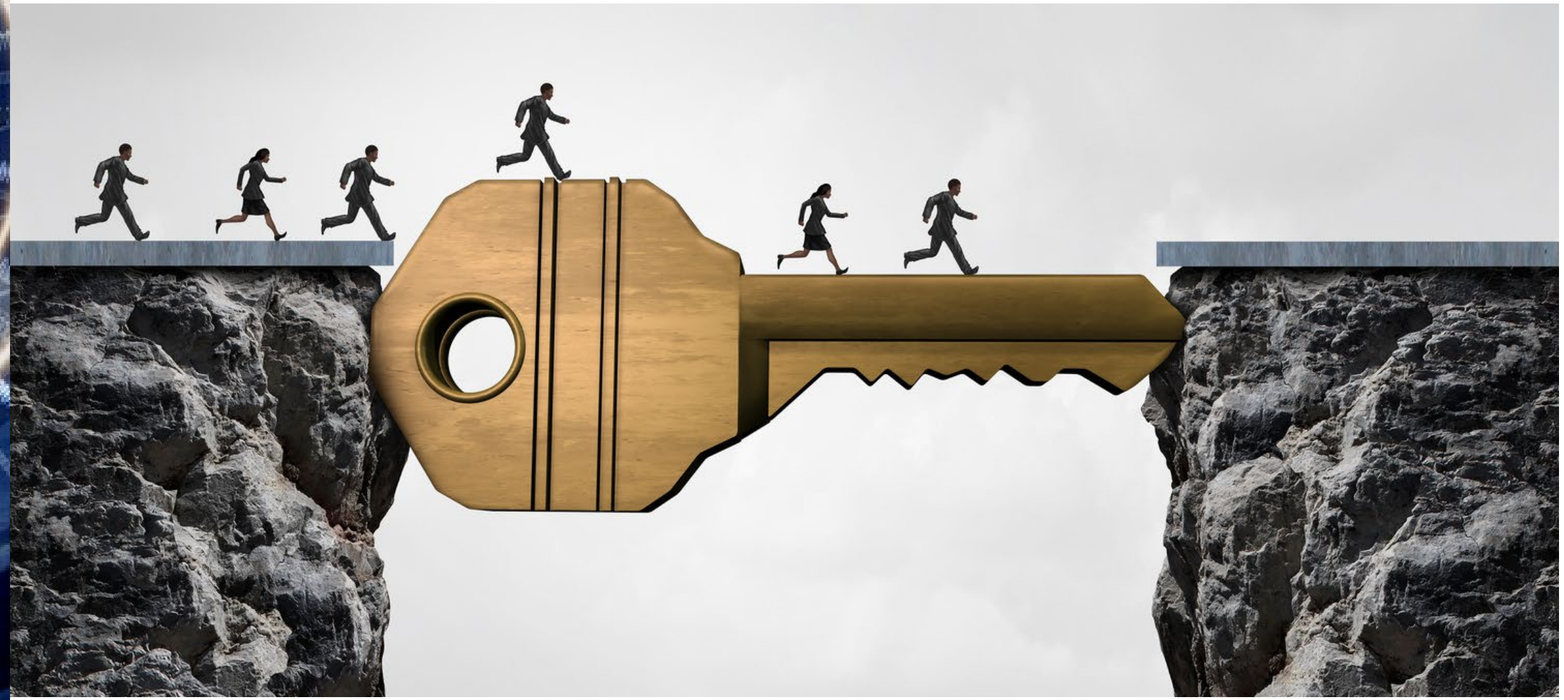
5 min expert talks

Proceedings

PIs: Charles Watkinson, University of Michigan
Christina Drummond, University of North Texas

COMMUNITY SUPPORT IS THE KEY

- *to subsidize operations*
- *to speed development*
- to *explore extensibility*



Rebranding too

Related to Urban Planning Data

Dataspaces to watch

Scholarly Communications is adopting

the Dataspace approach alongside other industries

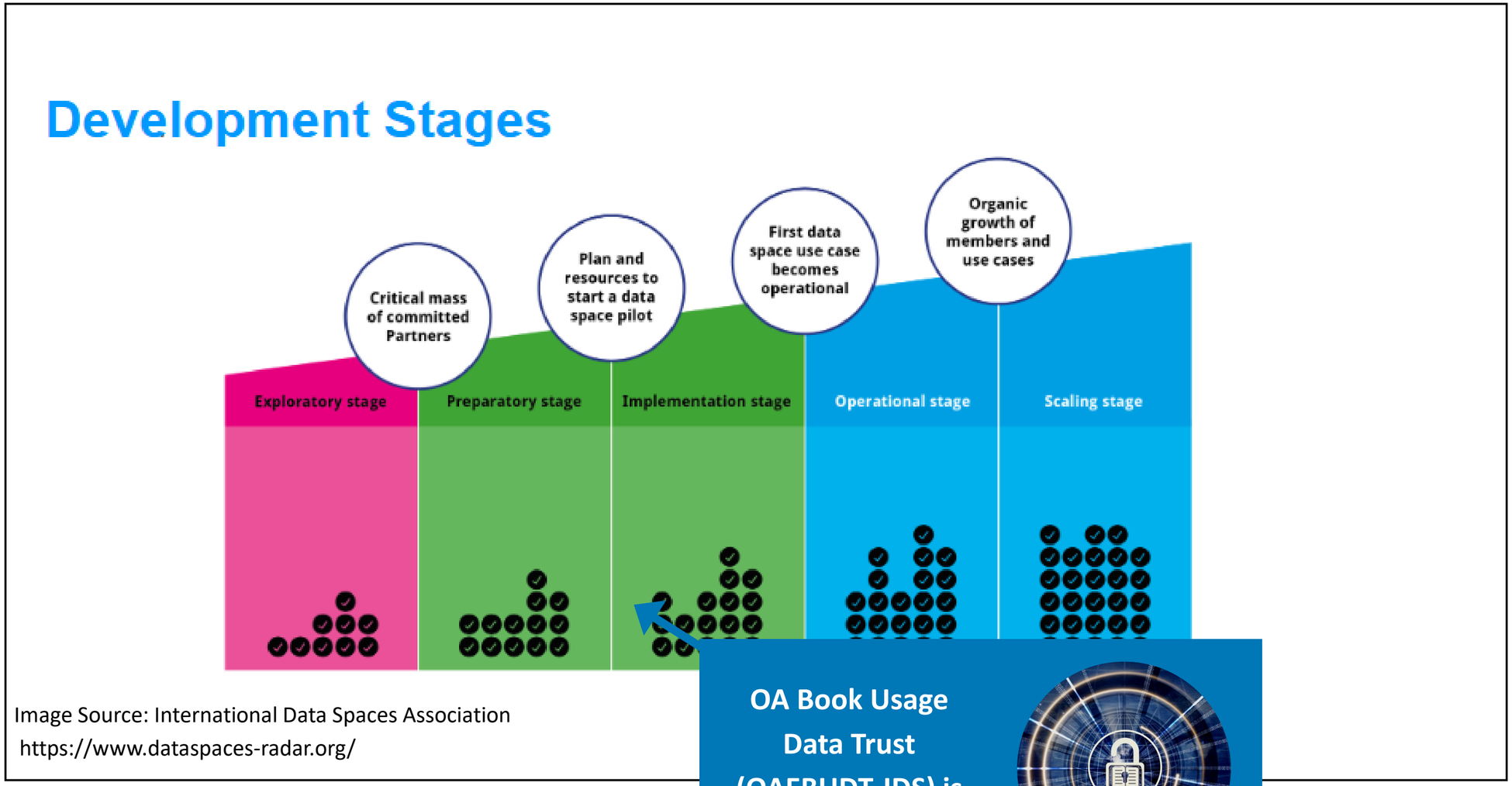
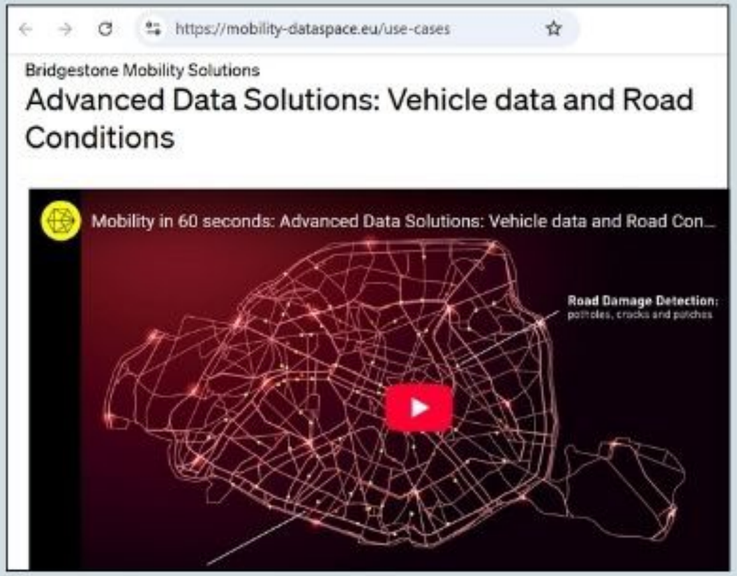
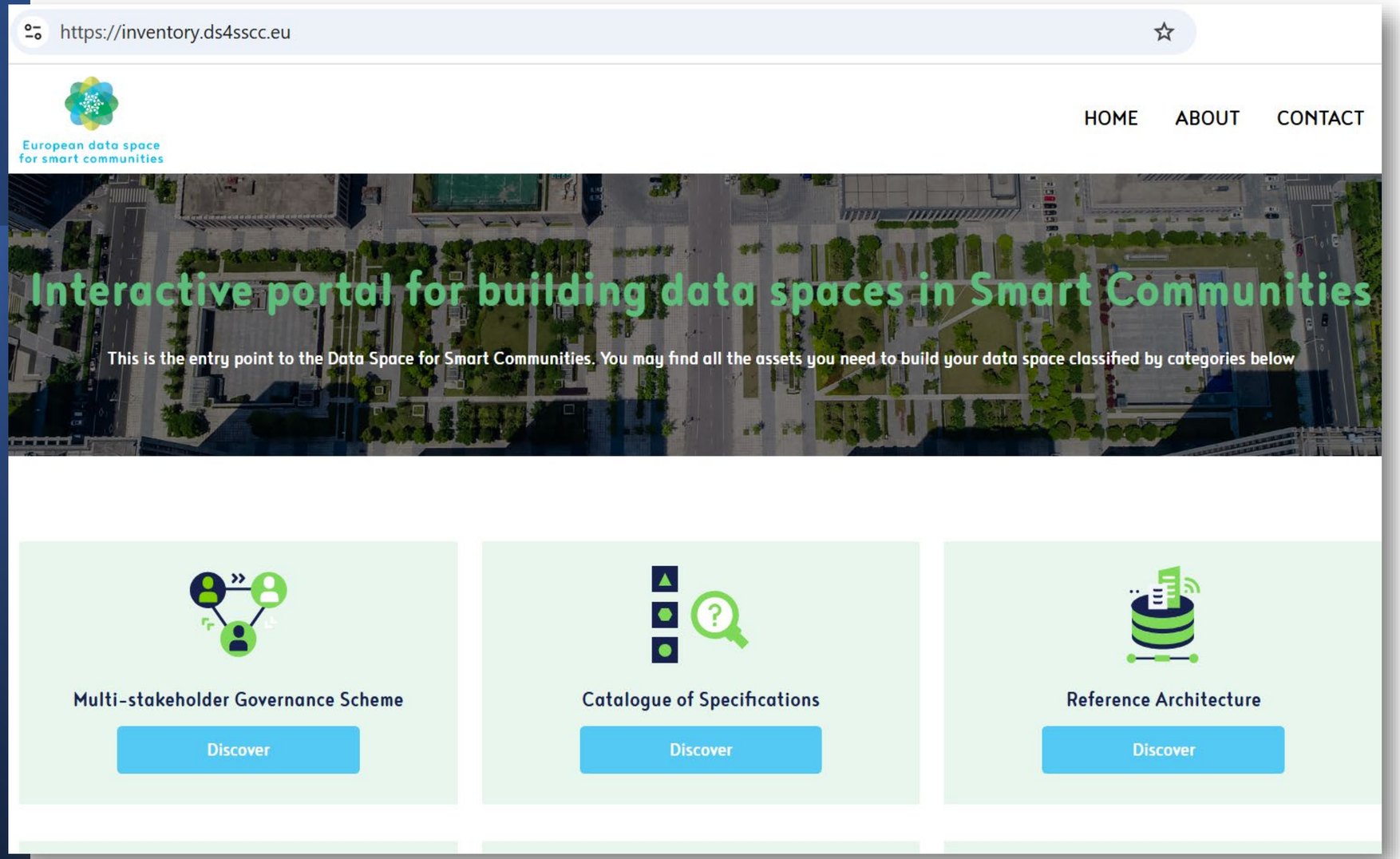


Image Source: International Data Spaces Association
https://www.dataspaces-radar.org/

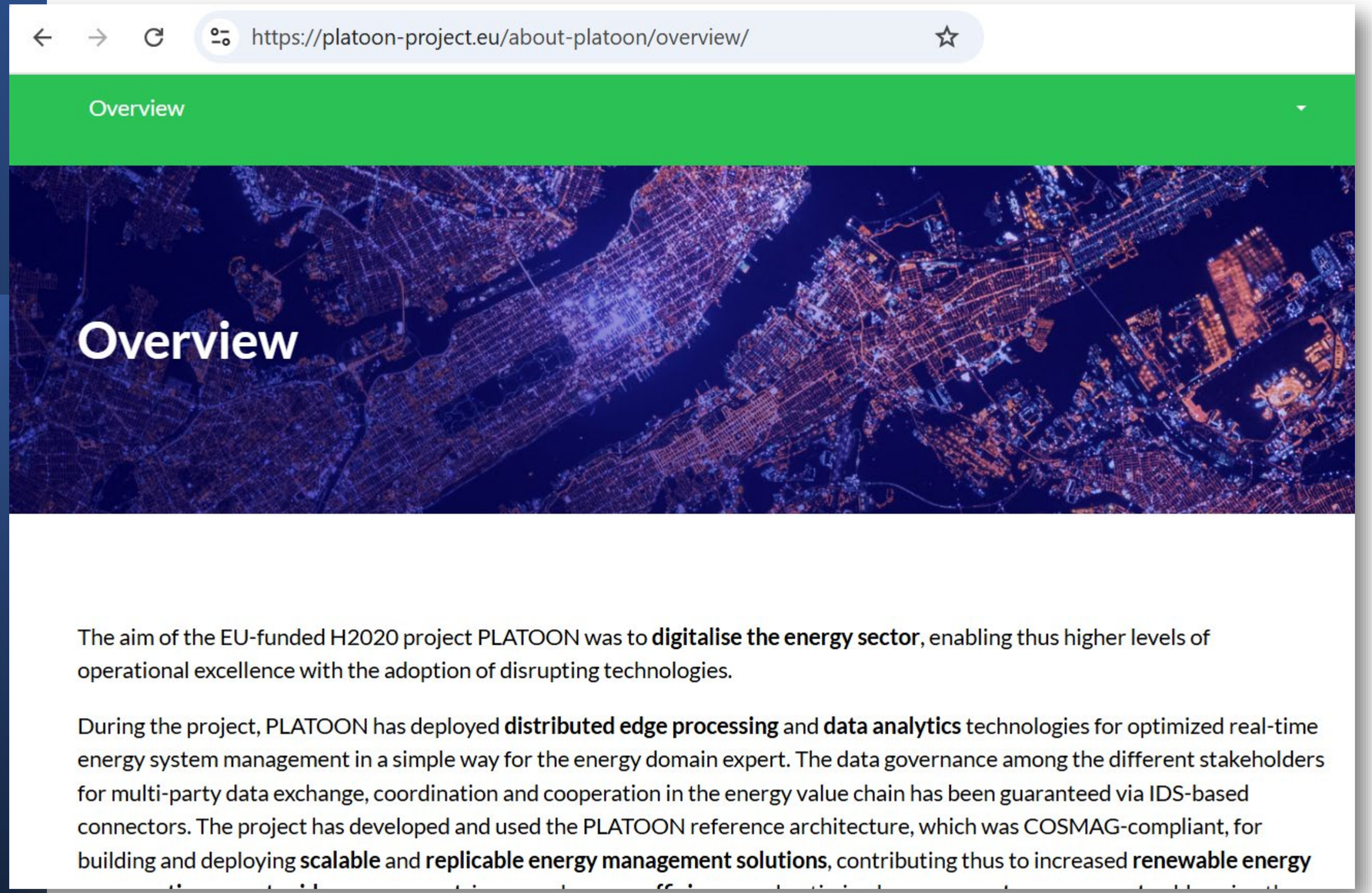
Other dataspaces to watch



Other dataspaces to watch



Other dataspaces to watch



Dataspaces for trusted, intermediated data flows across platforms/services

- **Secure, auditable data transactions**
- **Streamlined legal / data sharing processes**
- **Discoverable, transparent metadata**
- **Avoid vendor lock-in**