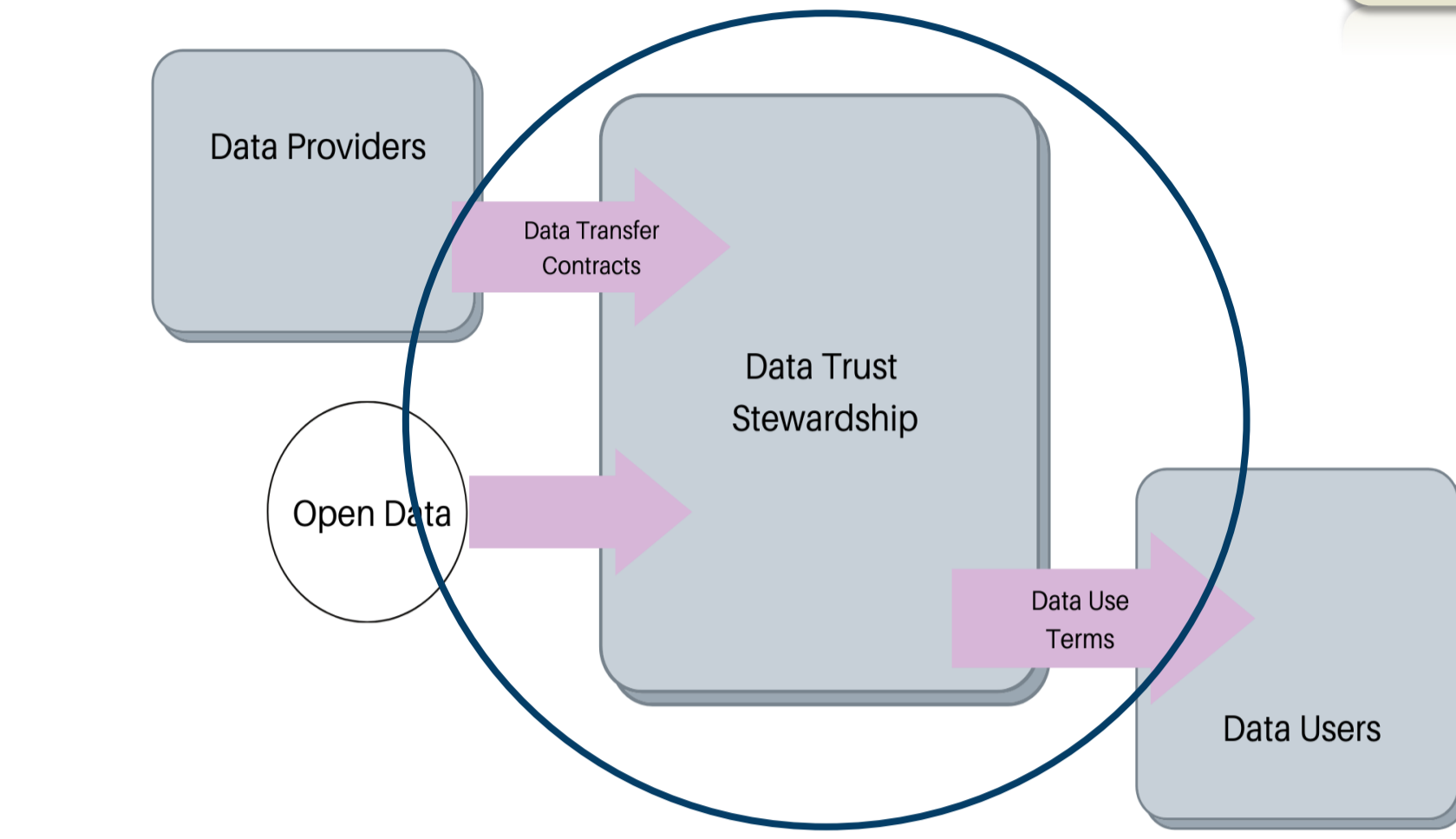# Supporting equity, economies of scale, and interoperability by applying the Industry Data Space (IDS) model to open science usage and impact reporting

Christina Drummond , OA Book Usage Data Trust Executive Director, University of North Texas
Research made possible through support from the Andrew W. Mellon Foundation

APPROACH

Define mechanisms to govern and streamline ethical cross-platform usage data transfer, processing, and use through a public/private industrial data space
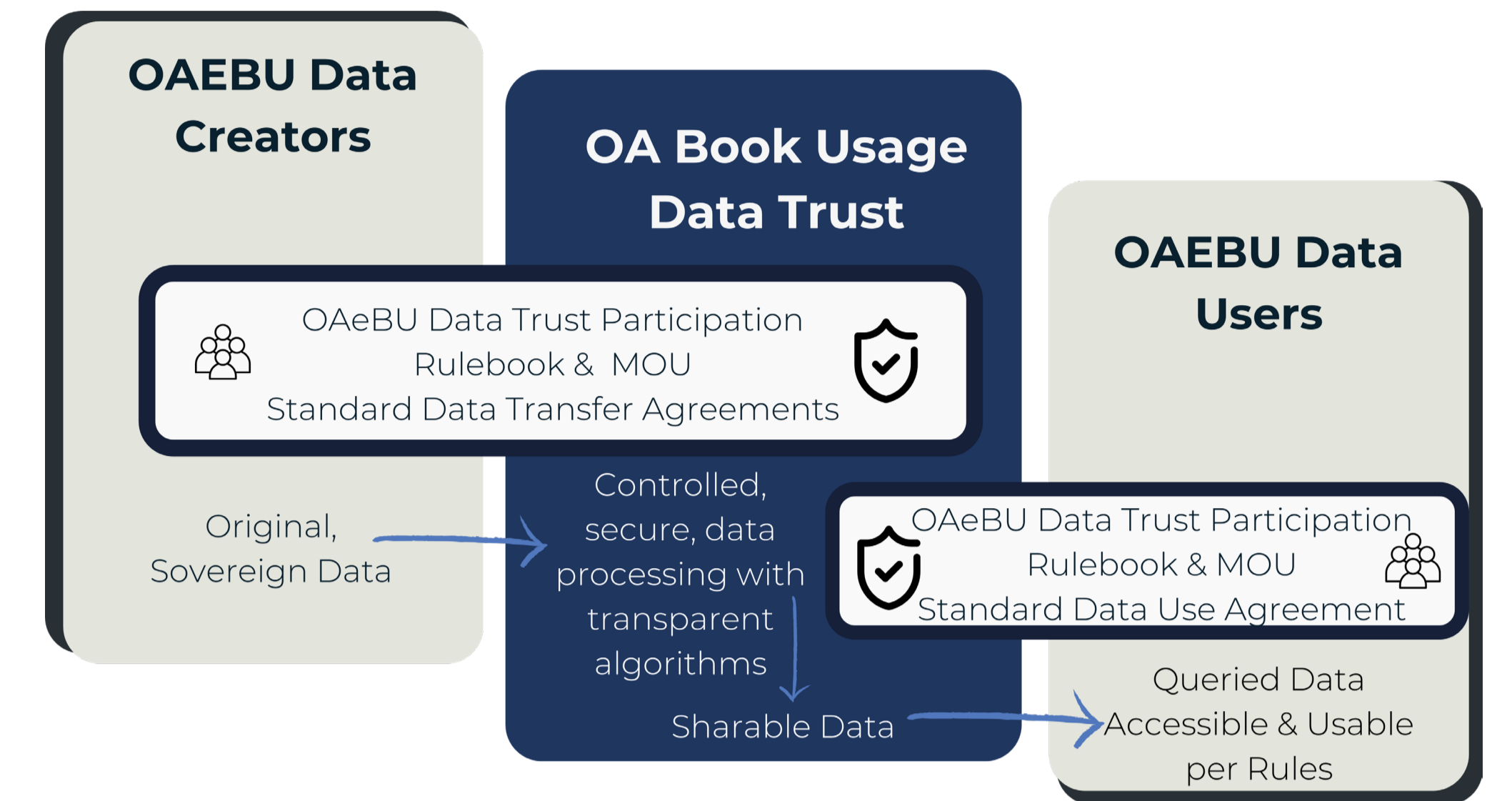

Technical controls
- Access
- Privacy
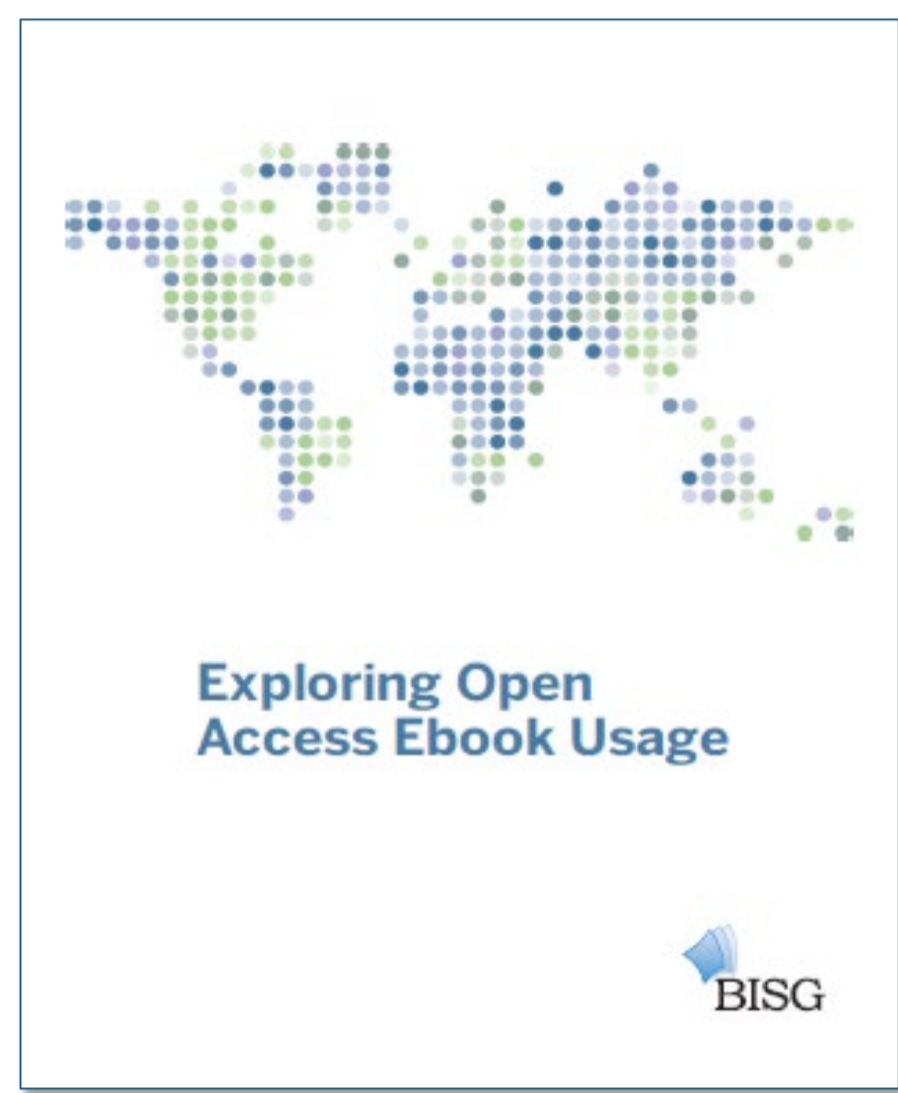- Cybersecurity

Policy and ethical requirements
- Data processing
- Data use

Data governance cyberinfrastructure layer based on legal and technical controls provides Data Trust Community managed support to streamline rules-based connections between public and private OA book usage (OAEBU) data creators and consumers
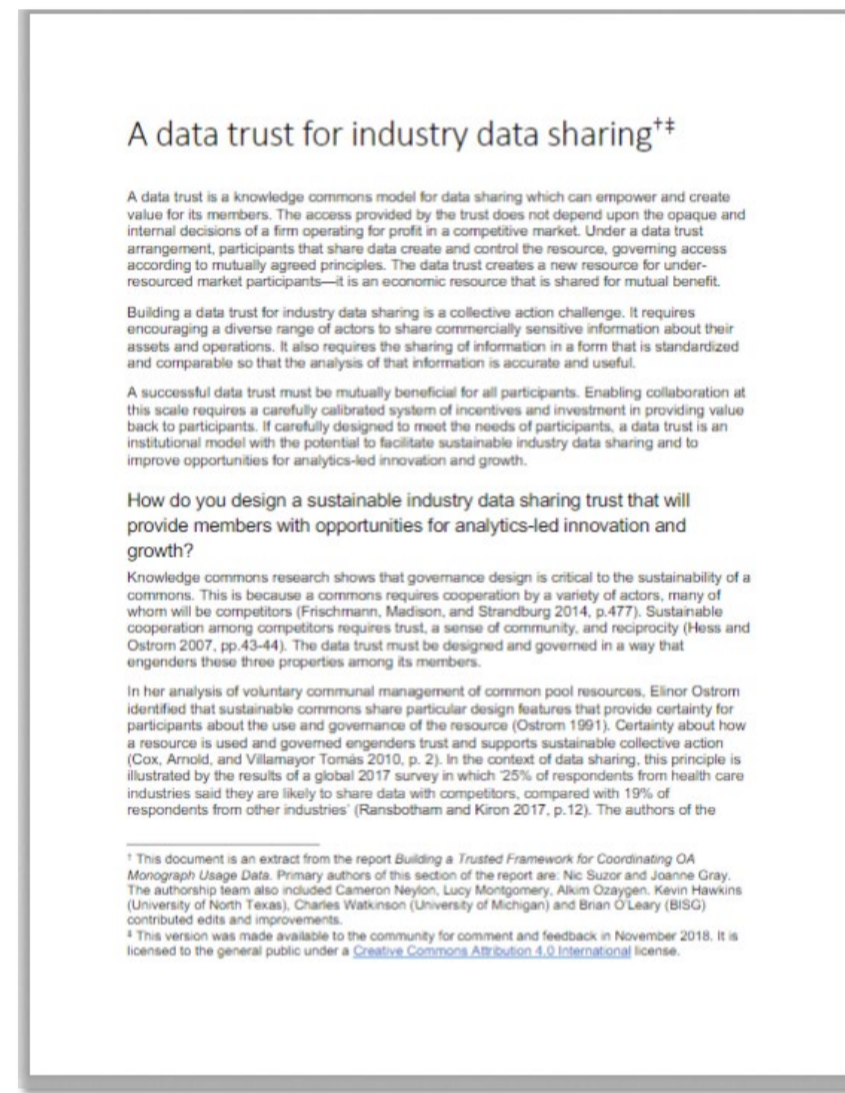

FOUNDATIONAL RESEARCH

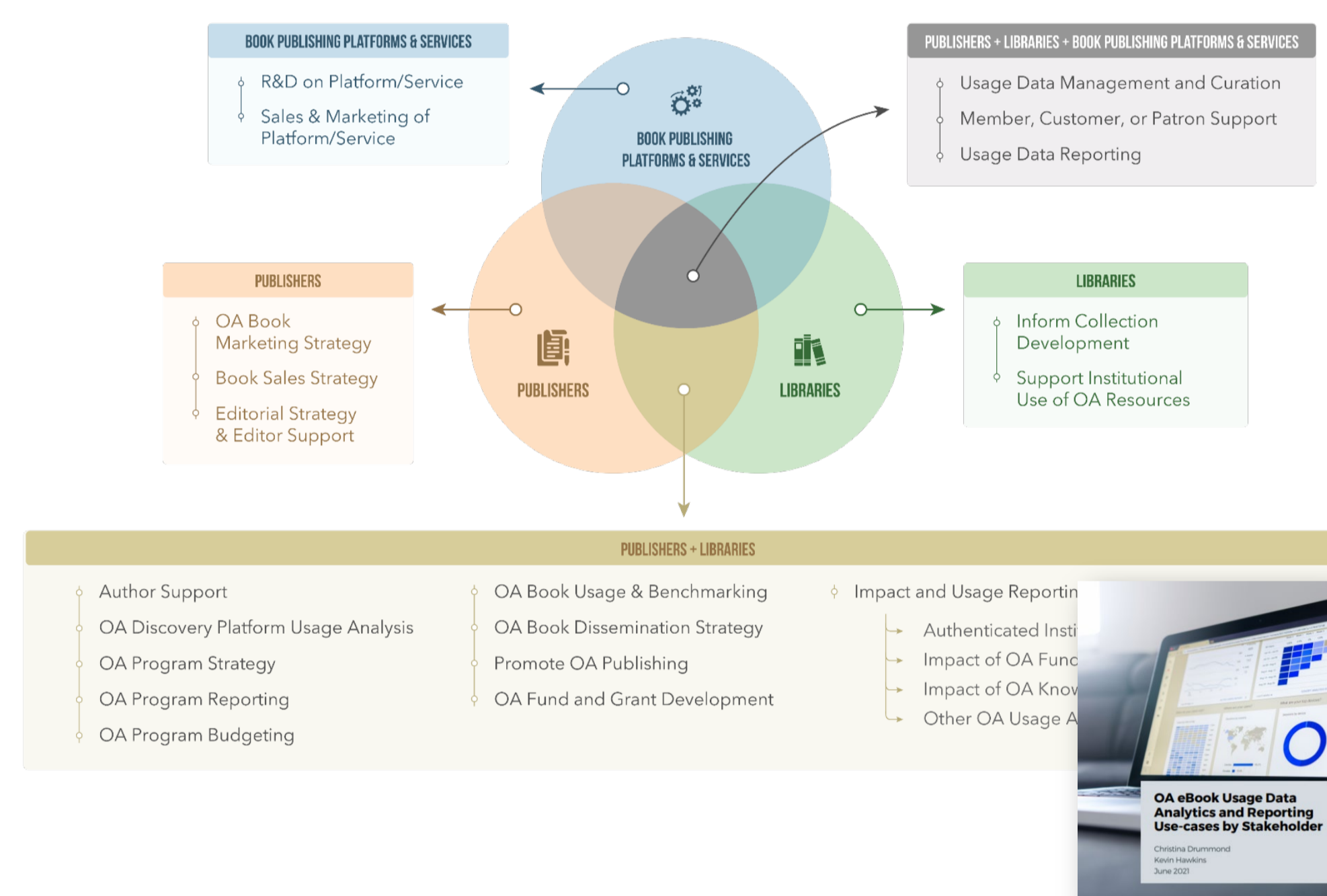### 1. Documented shared challenges, interests, and potential benefits of working through a data trust

Exploring Open Access Ebook Usage
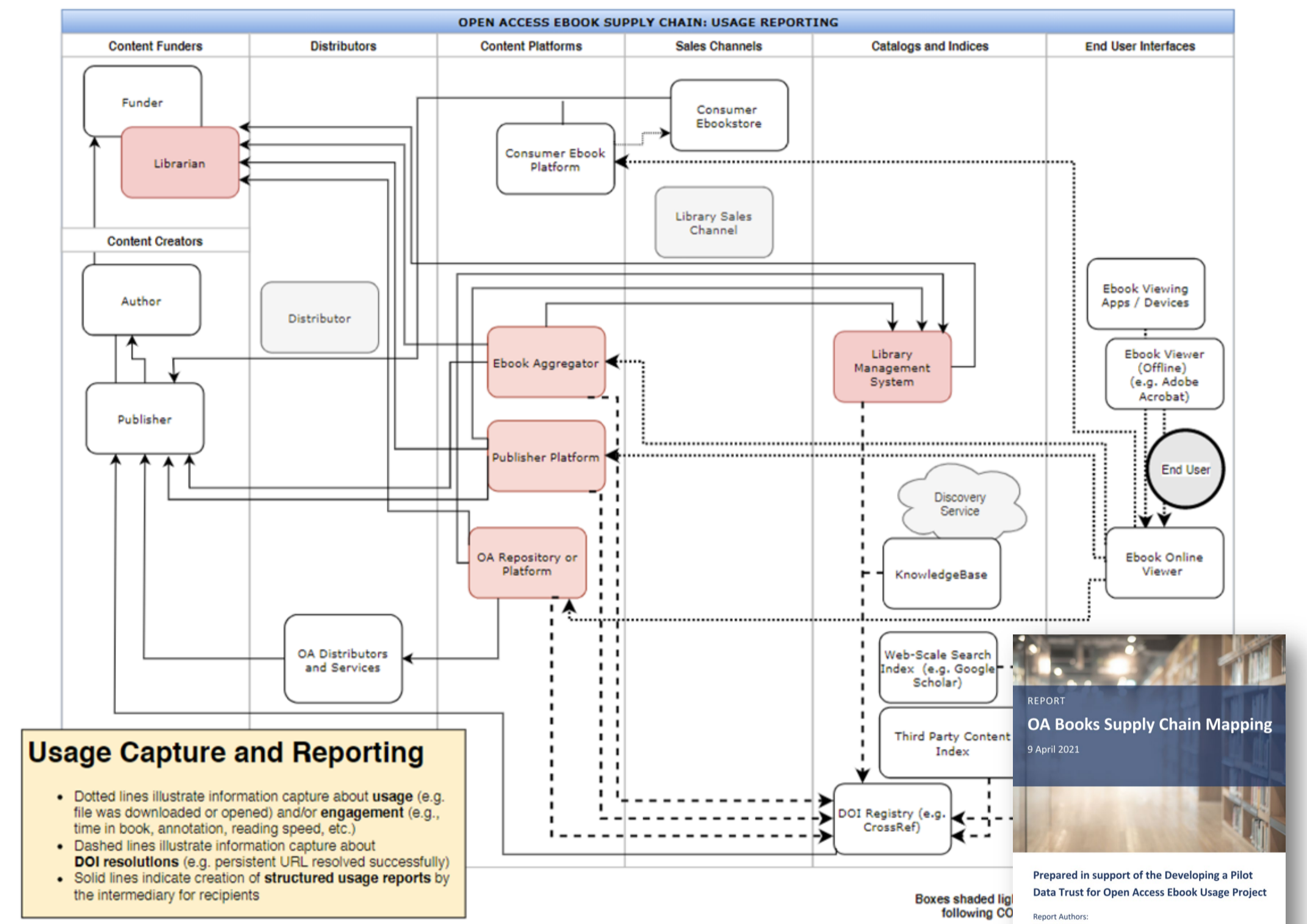Hawkins, K.. and O'Leary, B,
http://dx.doi.org/10.17613/8rty-5628

Building a Trusted Framework for Coordinating OA Monograph Usage Data. Suzor, N. et al.
http://dx.doi.org/10.17613/36hw-gs17

2. Identified shared OA book usage reporting and analytics use cases via stakeholder focus groups and dashboard pilots

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

3. Documented the OA book usage data ecosystem, including existing technical standards and data flows
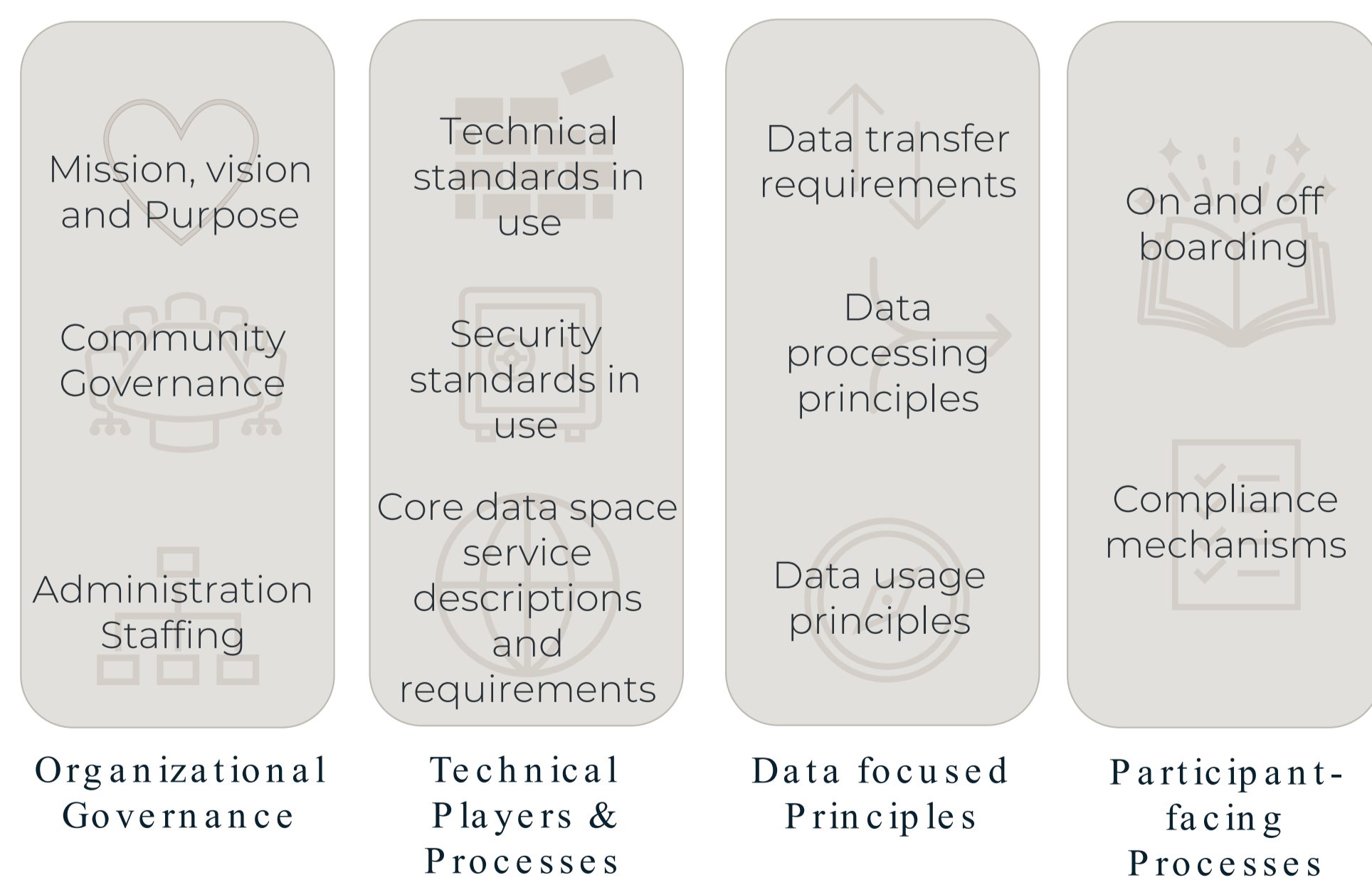

Open Access eBook Supply Chain: Usage Reporting
Clarke M. and Ricci L.., *Open Access eBook Supply Chain Maps for Distribution and Usage Reporting* https://doi.org/10.5281/zenodo.4681724

ONGOING WORK

FORMALIZING COMMUNITY AND DATA GOVERNANCE; STUDYING DATA TRUST PARTICIPATION BENEFITS AND SUSTAINABILITY

1. Develop an OA book usage data space rulebook to provide transparency and increase trust

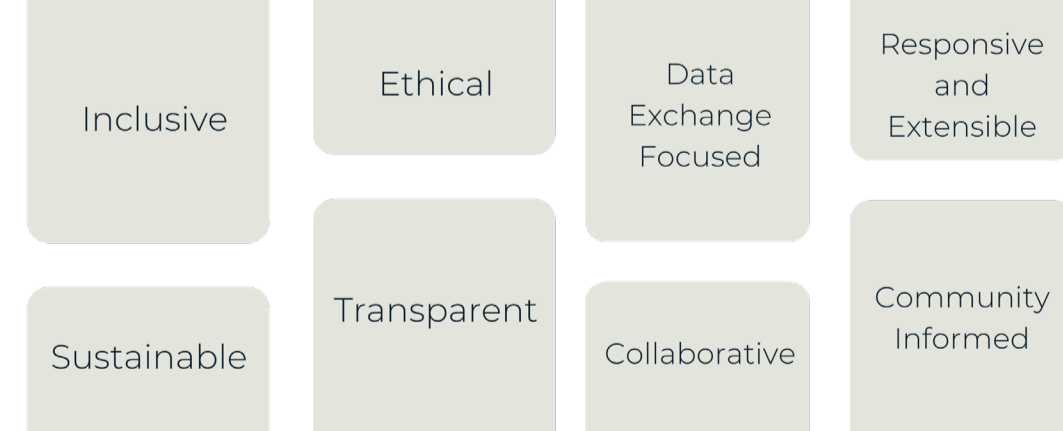| Organizational Governance | Technical Players & Processes | Data focused Principles | Participant-facing Processes |

2. Develop sustainable governance and administration

Vision
Enabling the community governed sharing of quality, interoperable, OA book usage data

Mission
To champion strategies for the improved publication and management of open-access books by exchanging reliable usage data in a trusted, equitable, and community-governed way.
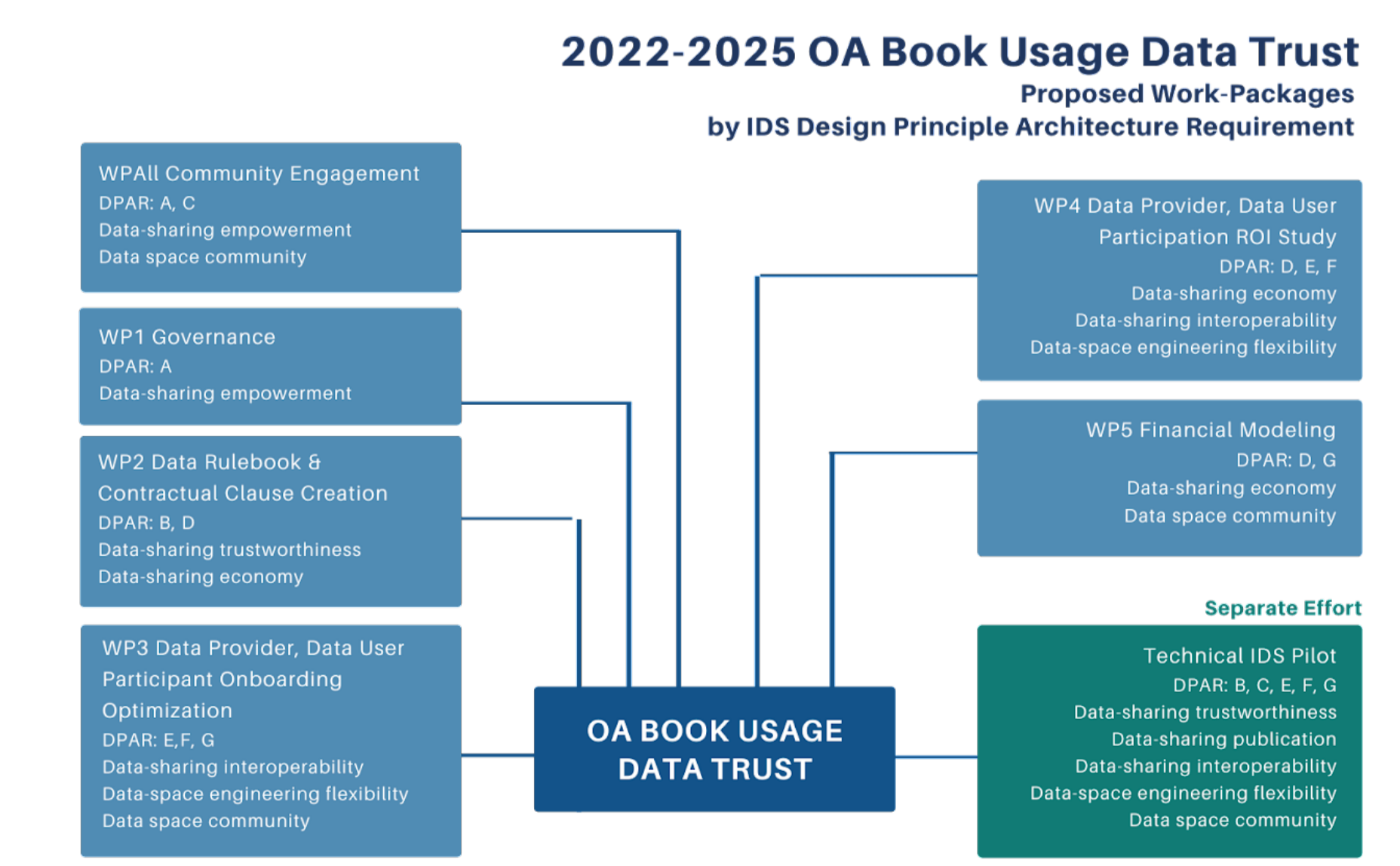
Principles
Inclusive, Ethical, Data Exchange Focused, Responsive and Extensible, Sustainable, Transparent, Collaborative, Community Informed

oabookusage.org

3. Understand participant cost & resource savings and develop sustainable budgetary model

Since 2015 :
- 3 grant awards from the Mellon Foundation
- 10 Principal Investigators
- 7 consulting teams, 6 staff
- 25+ advisors
- 100+ contributors from 5 continents

Usage data creator partners sought for data space pilot
- Reduce usage data curation & aggregation burden
- Make usage & discovery benchmarking possible

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Website