Book Analytics Dashboard Demonstration (BAD) Project (2022-2025)

OA Book Usage Analytics for Diverse Communities - A Demonstration

Project: 2022-2025

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Project overview

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Partners and People

Partner Organisations

- **Curtin University**
- **COARD**
- **OAPEN**
- **Educopia**

Technical Team

- Kathryn Napier
- Rebecca Handcock
- Keegan Smith

Principal Investigators:

- Lucy Montgomery
- Cameron Neylon
- Katherine Skinner
- Ronald Snijder
- Niels Stern

Project Management and Governance:

- Laura J. Wilkinson
- Sînziana Păltineanu

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Description of Proposed Work

Formal Project Title: OA Book Usage Analytics for Diverse Communities – A Demonstration Project

Short Title: Book Analytics Dashboard Project

Duration: April 2022 – April 2025

Funders: Mellon Foundation, COARD

The Book Analytics Dashboard Project (2022-2025) is focused on creating a sustainable OA Book focused analytics service.

Our goal in creating this service is to help safeguard and support diversity in the voices, perspectives, geographies, topics and languages made visible through OA Books.

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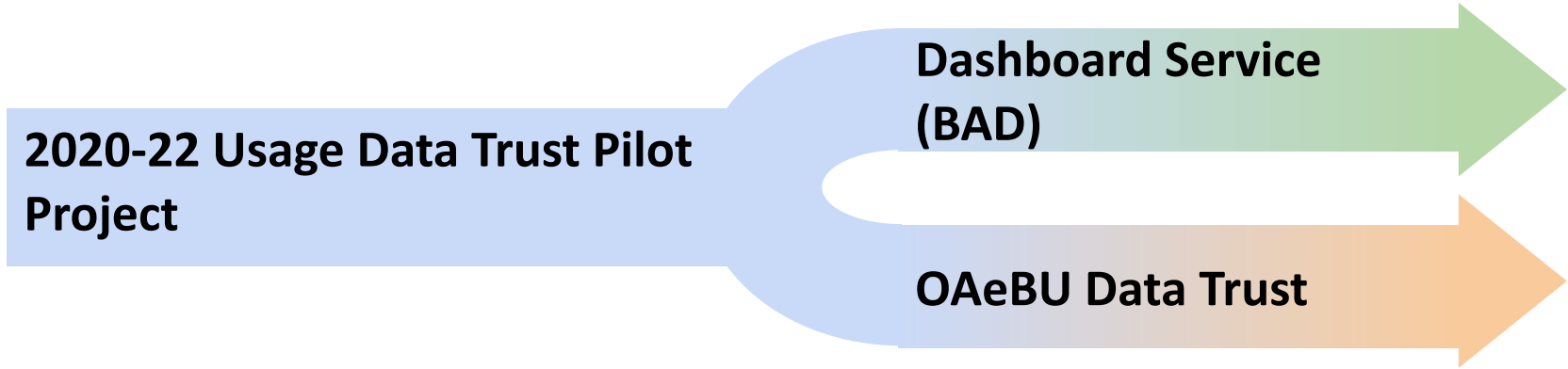
Background and Context

The Book Analytics Dashboard project is building on an earlier Mellon-funded initiative: Developing a Pilot Data Trust for OA eBook Usage (2020 – 2022).



The Book Analytics Dashboard project is:

- Scaling dashboard infrastructure and workflows
- Developing a service model, including customer support
- Identifying and implementing a long-term plan for housing, maintenance and funding
- Providing an analytics service as a sustainable community infrastructure for OA book stakeholders

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2020-2022 (OAeBU) PROJECT GOALS

- 2-year Mellon Foundation funded project
- Develop & pilot data trust infrastructure
  - 6 dashboard partners
  - Platform/data partners
  - Implement and extend relevant open-source technologies
- Develop personas and use cases
- Document the OA eBook supply chain
- Define sustainability, governance, and policy models

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2020-2022 (OAeBU) Technical work

1. **Open Access Book usage** (from JSTOR, OAPEN IRUS-UK, Google Books, ANU Press Repository, Google Analytics, UCL Discovery Repository)
2. **6 dashboard partners across a range of sectors and sizes** (5 Presses and 1 Repository/Platform)
3. **Benchmarking of usage data across Pilot partners**
4. **Open Source re-hostable codebase -** state of the art workflow, data-warehouse and dashboard systems deploying Airflow, Google Cloud Platform, ElasticSearch and Kibana

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2022-2025
BAD Project work

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BAD Work packages April 2022 - March 2025

- **WP1:** Technical Roadmap Consultation: Developing a Process and Model
- **WP2:** Workflow Standardization
- **WP3:** Partner Onboarding Phase 1
- **WP4:** Community Cultivation
- **WP5:** Sustainability Model and Community Consultation
- **WP6:** Onboarding of Phase 2 Partners
- **WP7:** Sustainability Development Plan
- **WP8** Regional Strategy Development
- **WP9:** Implementing Processes for Ongoing Technical Operations
- **WP10:** Organizational Form Development and Implementation

Activities and rationale - Full document: https://doi.org/10.5281/zenodo.6618791

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Useful links

Code and documentation

- Book Usage Workflows Read the Docs
- Book Usage Workflows GitHub Repository
- University of Michigan Press website with book usage dashboards
- Directly to the University of Michigan Press's public BAD dashboard here

2023 - 2025 Project page

- 2023 - 2025 project page
- BAD Zenodo Community and Info Landing Page
- Email BAD info@book-analytics.org

2020-2022 Project

- 2020 - 2022 project page
- OAeBU Zenodo repository community
- The OAeBU project page on the Educopia Institute website

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BAD Technical System Outline

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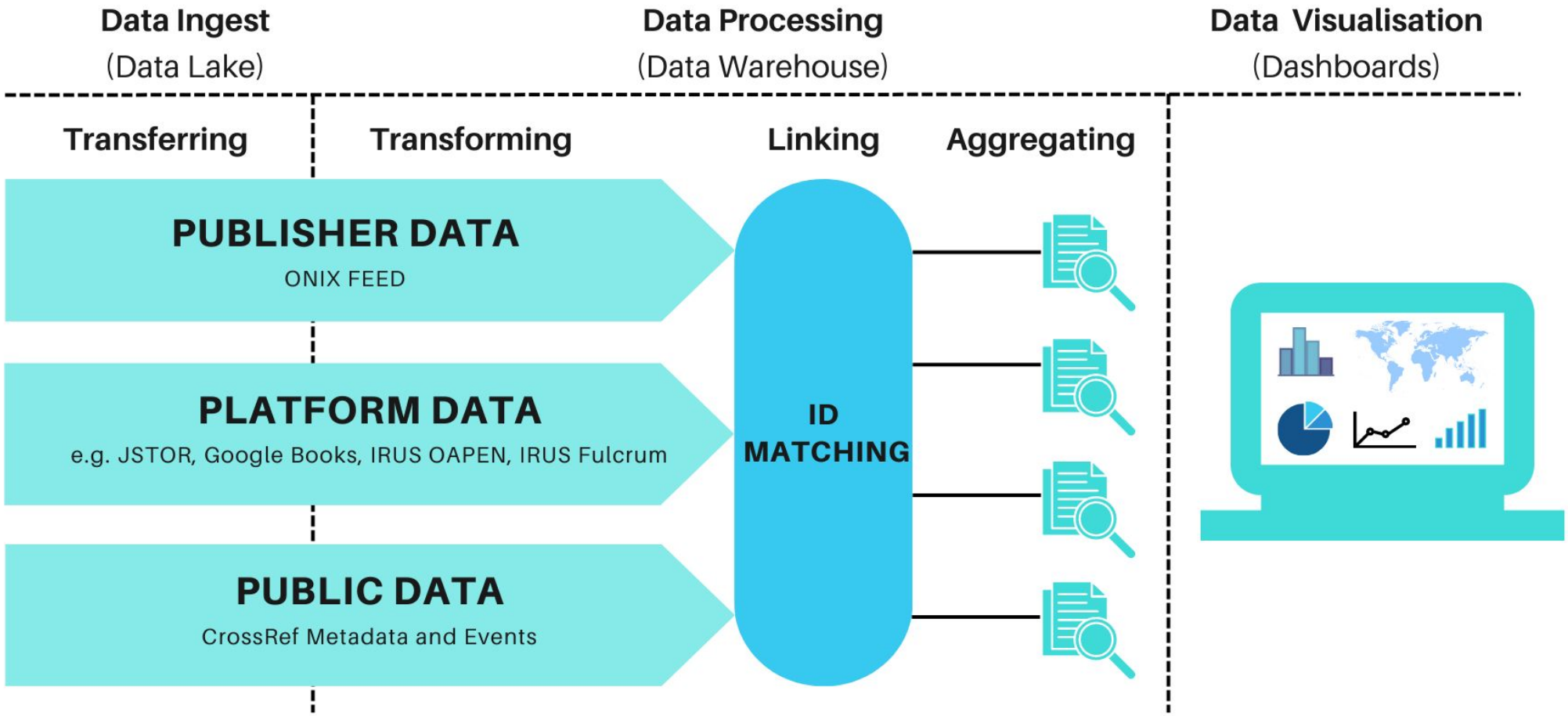
What we have built



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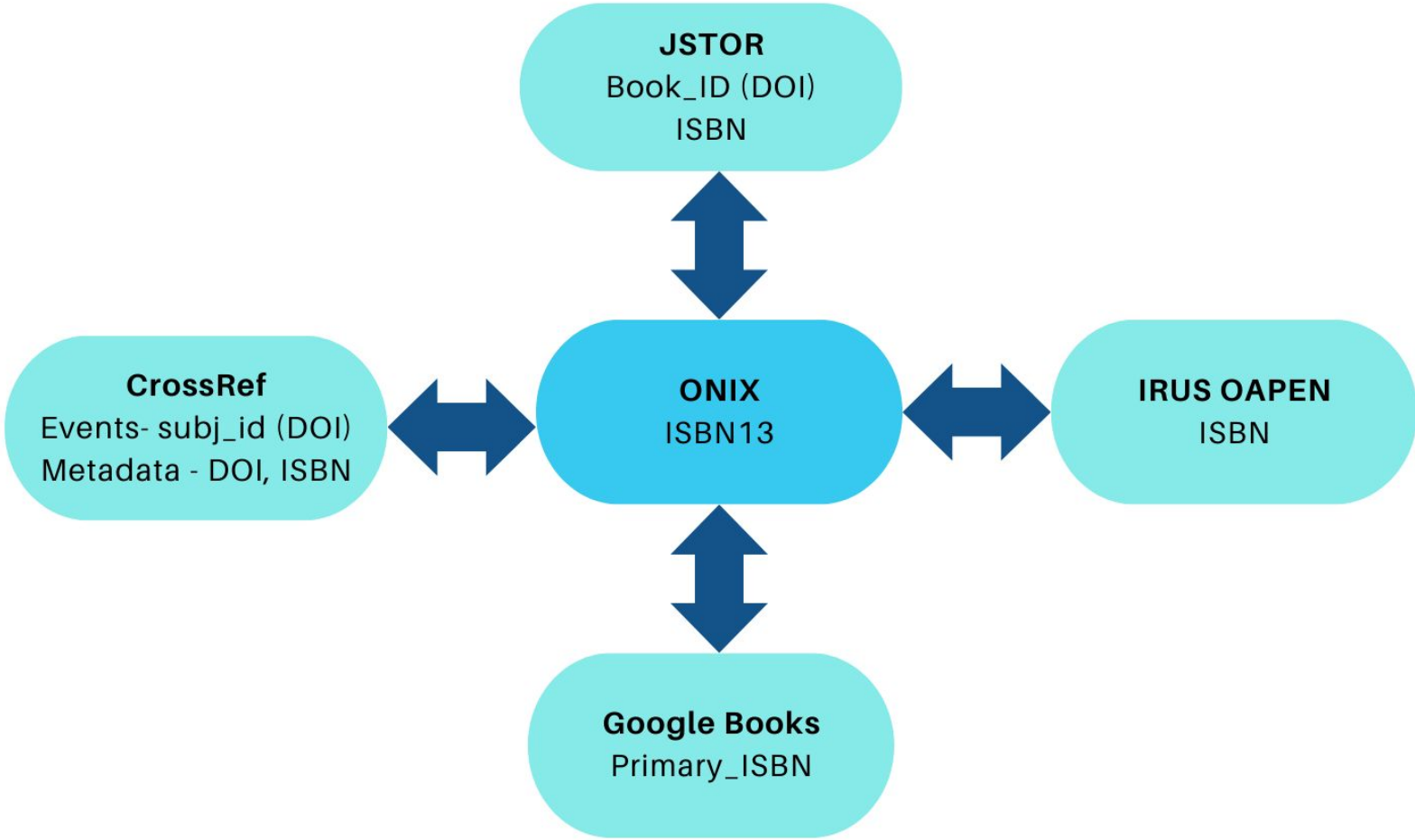
ISBN-13 and ONIX as the coordinating ground truth



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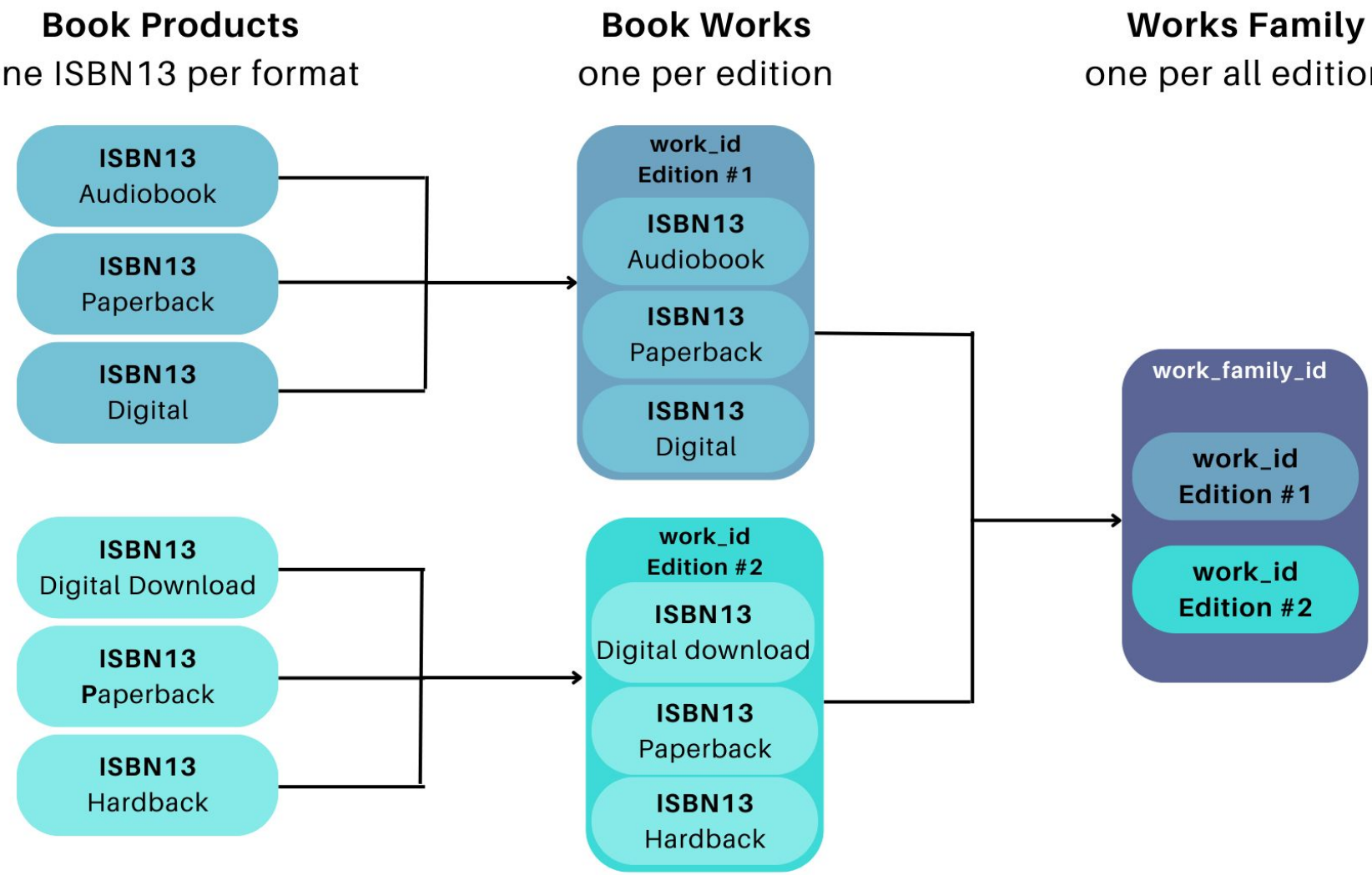
Book ID relationships

ONIX 3.0 standard requires ISBN13 to be transmitted in the record

The publisher can optionally disclose relationships via the “RelatedWorks” field



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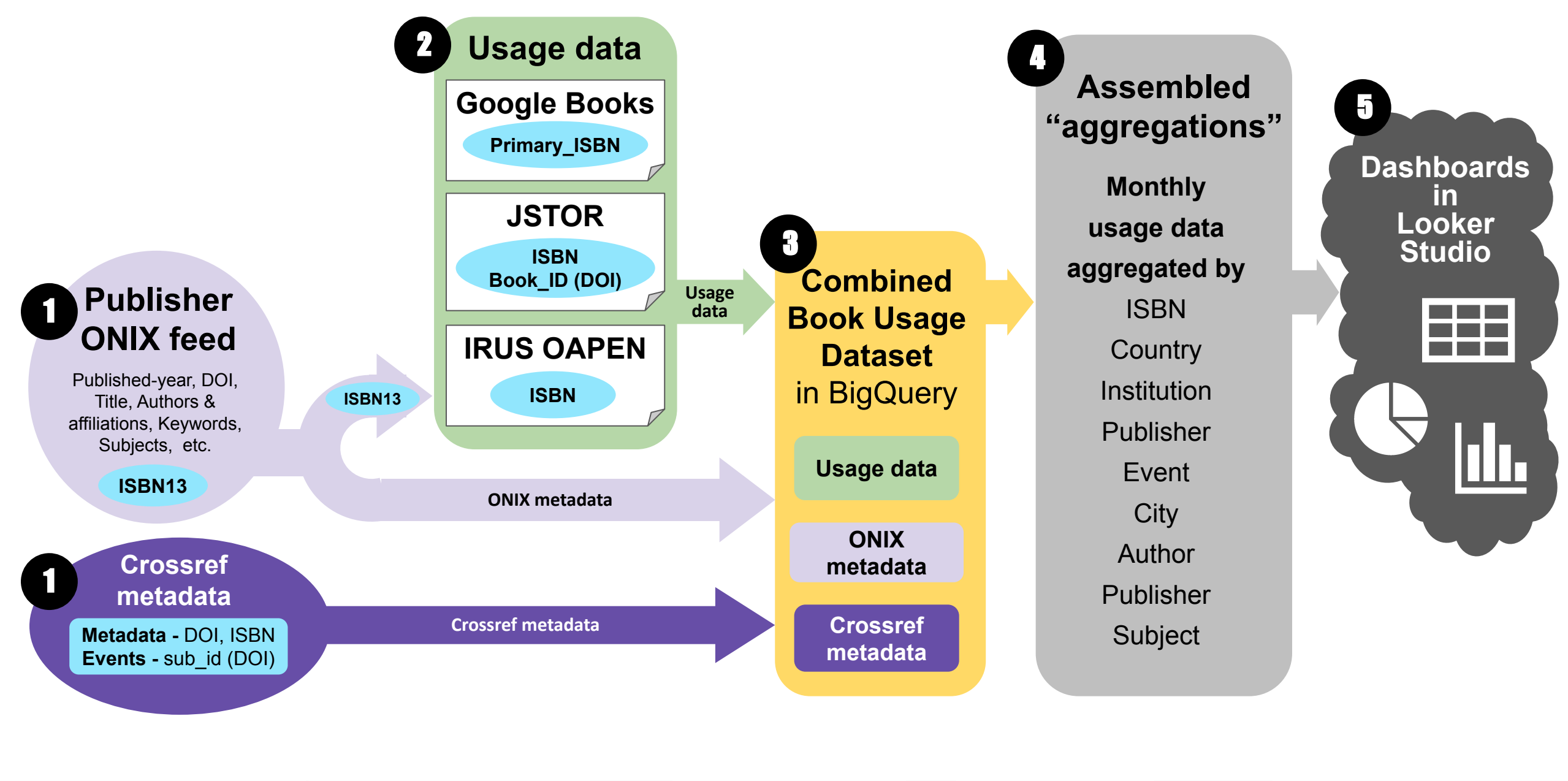
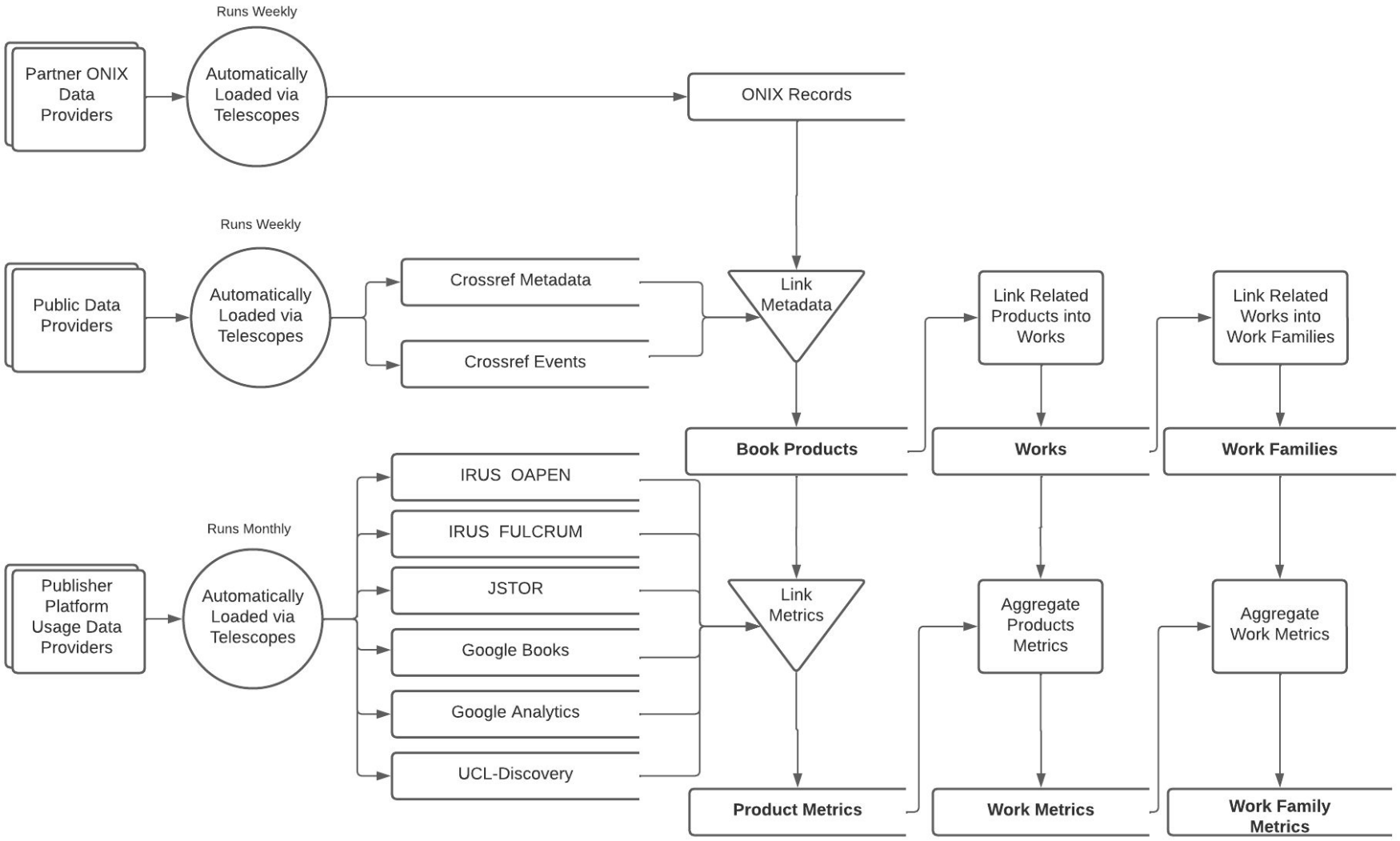

1
Publisher ONIX feed
Published-year, DOI, Title, Authors & affiliations, Keywords, Subjects, etc.
ISBN13
1
Crossref metadata
Metadata - DOI, ISBN
Events - sub_id (DOI)
2
Usage data
Google Books
Primary_ISBN
JSTOR
ISBN
Book_ID (DOI)
IRUS OAPEN
ISBN
ISBN13
Usage data
ONIX metadata
Crossref metadata
3
Combined Book Usage Dataset in BigQuery
Usage data
ONIX metadata
Crossref metadata
4
Assembled "aggregations"
Monthly usage data aggregated by
ISBN
Country
Institution
Publisher
Event
City
Author
Publisher
Subject
5
Dashboards in Looker Studio
1 Source metadata
2 Link Crossref event data to ONIX feed via Crossref metadata
3 Combine & collate usage data
4 Standardize aggregation variables
5 Assemble aggregations and export for Looker Studio

What we have built



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What we have built

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What we have built

- ➔ Template dashboard design [available here]
- ➔ See the University of Michigan Press' BAD dashboard embedded in their [website here]

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