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Metadata, Interoperability & Persistent Identifiers
Strengthening Diamond Open Access

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Why This Topic Matters

- Diamond OA = equitable, community-driven publishing
- Visibility does NOT happen automatically
- Metadata + PIDs = foundation of discoverability & trust
- Critical for Global South and non-commercial publishing

Why This Topic Matters

- Store, preserve, and share research outputs
- Enable Open Access compliance
- Depend on structured metadata, standards, and PIDs

What is Metadata (Really)?

- More than 'data about data'
- Structured, standardized description of research outputs
- Enables discovery, context, reuse, and preservation

Metadata Quality

- Accuracy - correct information
- Completeness - all key fields filled
- Consistency - standard formats & vocabularies

Metadata & Discoverability

- Rich metadata improves indexing
- Leads to more views and downloads
- Supports FAIR principles

Metadata Standards

- Dublin Core - repositories
- MARC21/RDA - library catalogues
- DataCite - research data
- BIBFRAME - linked data future

Linked Data & The Future

- Metadata is evolving toward linked data
- BIBFRAME supports richer research networks
- Built on persistent identifiers

What is a PID?

- Unique identifier
- Persistent over time
- Actionable (leads to resource or metadata)

Types of Persistent Identifiers

- DOI - articles & datasets
- ORCID - researchers
- ROR - institutions
- ISSN/ISBN - journals & books

Why PIDs Matter for Diamond OA

- Provides visibility
- Ensures stability
- Integrates into global systems

PIDs & Discoverability

- Indexed in Google Scholar & DOAJ
- Harvested via OAI-PMH
- Linked across platforms

PIDs & Long-Term Preservation

- Stable citations
- Continued access if platforms change
- Supports LOCKSS & PKP PN

PIDs & Academic Credit

- Links authors via ORCID
- Reduces name ambiguity
- Recognizes wider contributor roles

PIDs & Interoperability

- Machine-readable metadata exchange
- Links journals, repositories, funders
- Supports Open Science policies

PIDs as a Signal of Quality

- Shows editorial professionalism
- Indicates metadata maturity
- Builds researcher trust

Equity & Global Inclusion

- Supports Global South visibility
- Reduces commercial dependency
- Enables multilingual scholarship

Metadata + PIDs = Strong Diamond OA

- Quality Metadata
- Persistent Identifiers
- Interoperability
- Discoverability, Trust, Sustainability

Key Takeaways

- Metadata makes research findable
- Standards make it interoperable
- PIDs make it persistent and connected
- Together they sustain Diamond OA

Thank you
Enkosi
Dankie