



Online, 2021 October 4-15

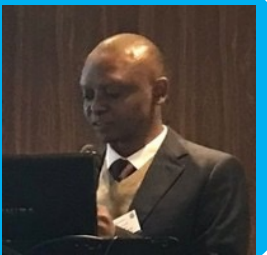
BEST PRACTICE PRESENTATION - KENYA

Institutional Repositories Metadata: approaches and challenges in University libraries in Kenya

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CONTENT

DEFINITIONS

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- ☐ INSTITUTIONAL REPOSITORY
- ☐ METADATA

APPROACHES & CHALLENGES

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- ☐ METHODOLOGY
- ☐ APPROACHES
- ☐ CHALLENGES

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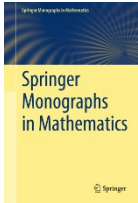
REFERENCES

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INSTITUTIONAL REPOSITORY (IR)

Archive for collecting, preserving, and disseminating digital copies of intellectual outputs of institutions, particularly research institutions.^[1]

IR Content Types



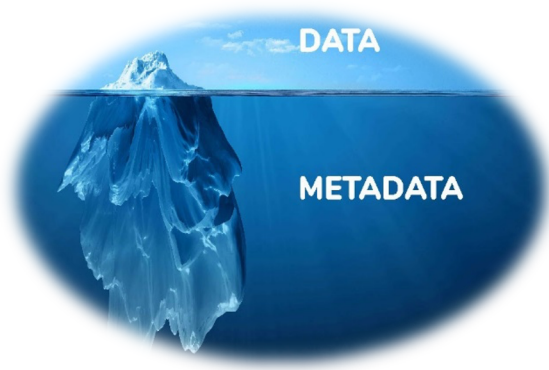
- Monographs
- E-prints of academic journal articles - before (preprints) and after (postprints) undergoing peer review
- Electronic Theses and Dissertations (ETDs)

- Digital assets generated by academics e.g. datasets
- Administrative documents
- Course notes
- Learning objects
- Conference proceedings

Mandates

Deposit of material in IR sometimes mandated by an institution.^[2]

METADATA



Data that provides information about other data but not content of the data, such as the text of a message or the image itself.³

Types

Descriptive - Used for discovery and identification. Elements e.g. title, abstract, author, and keywords.

Administrative - for managing resources, e.g. resource type, permissions, and *when* and *how* it was created.

Statistical - also called **process data**, may describe processes that collect, process, or produce statistical data.[6]

Structural - About containers of data and indicates how compound objects are put together, e.g. how pages are ordered to form chapters. Describes types, versions, relationships and other characteristics of digital materials.

Reference - Information about the contents and quality of statistical data.

Legal - Information about creator, copyright holder, and public licensing, if provided.

APPROACHES | CHALLENGES



METHODOLOGY

1. Selected 10 IRs of Kenyan Universities

Categories: -

1. Public (5)
2. Private (5)

Total no. of institutions selected = 10 out of 45 (22.22%)

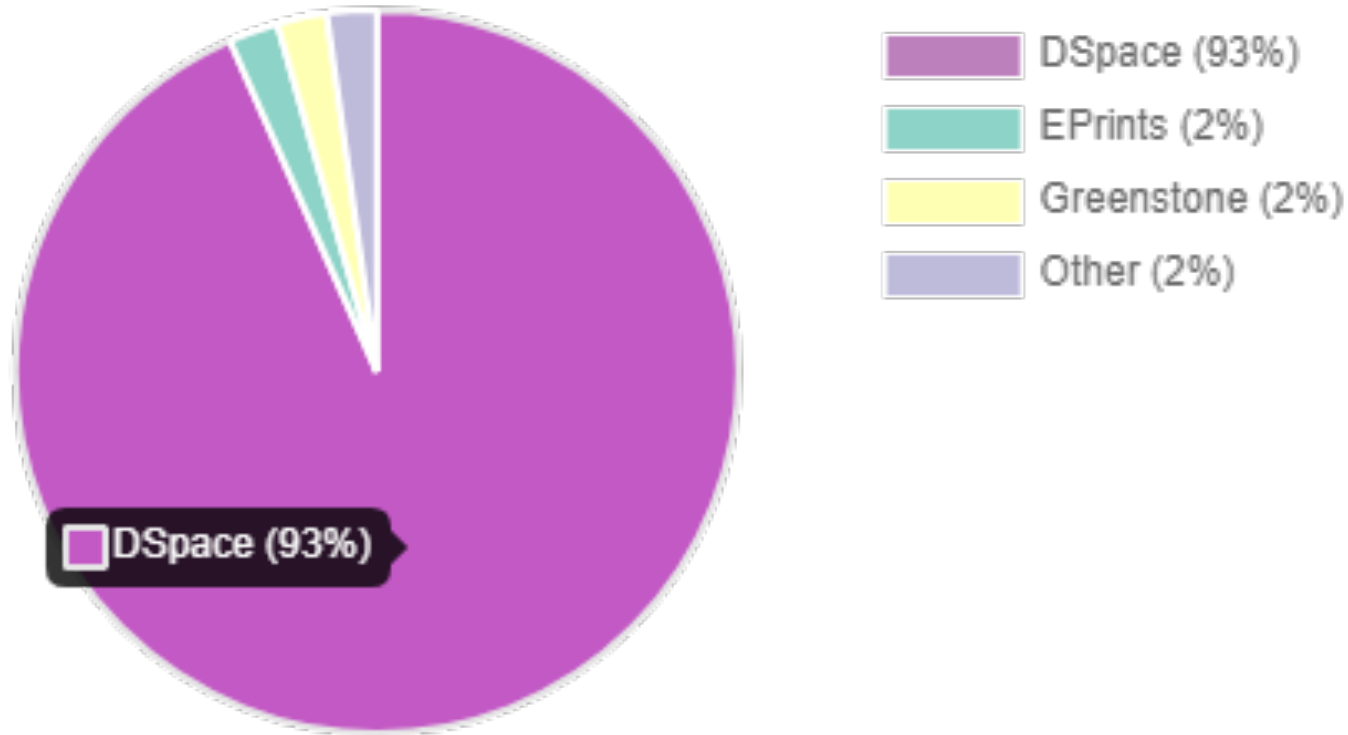
2. Inspection of IR Content on:-

- i. Metadata employed
- ii. Quality

3. Identification of challenges

APPROACHES - 1

Technologies used for IRs in Kenya



Most Universities promoting discovery of institutional research outputs through Institutional Repositories (IRs)

Jisc

OpenDOAR

45 IRs in Kenya promoting discovery through [openDOAR \(Directory of Open Access Repositories\)](#).⁴


APPROACHES - 2

TECHNOLOGY



93% Usage

DC METADATA SCHEMA^{5,6,7}



Dublin Core Elements

Rights	Contributor	Creator
Subject	Coverage	Title
Publisher	Identifier	Description
Type	Date	Source
Relation	Format	Language

KNOWLEDGE ORGANIZATION

- ☐ Communities
- ☐ Collections
- ☐ Naming = institution-specific

KEYWORD INDEXING

Keywords assigned with **dc.subject** element

OPEN DOAR

Promoting discovery through Directory of Open Access Repositories (openDOAR)

INFORMATION ACCESS

1. Restricted
2. Public domain



CHALLENGES

TECHNOLOGY

Is D-Space best solution?

US 17%, UK 15%, Germany 14%, Japan 8%, France 7%⁴



AUTHORITY CONTROL

Inconsistent entries in Author and Corporate Author fields

KEYWORD INDEXING⁸

**Vocabulary Encoding
Schema not indicated**



*Author-assigned? LCSH?
AAT? TGN? etc...*

KNOWLEDGE ORGANIZATION

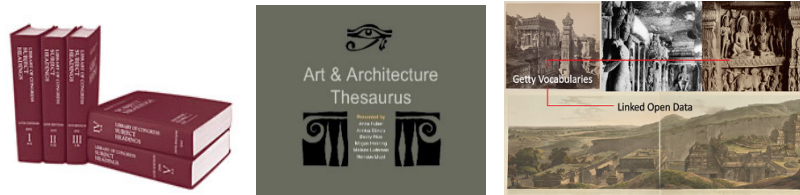
Categorization unclear in some cases e.g. Books categorized under Communities instead of Collections.

RECOMMENDATIONS

Knowledge Organization

- ☐ Organize Communities based on Users e.g. Departments, Schools, Faculties within Institution
- ☐ Organize Collections in terms of : -
 - Subjects
 - Content Types

Value Vocabularies



LCSH, AAT, TGN, Agrovoc...etc.

Facilitate Discovery

- ☐ [Controlled vocabulary from value vocabularies](#)
- ☐ Hyperlinks to concepts from value vocabularies

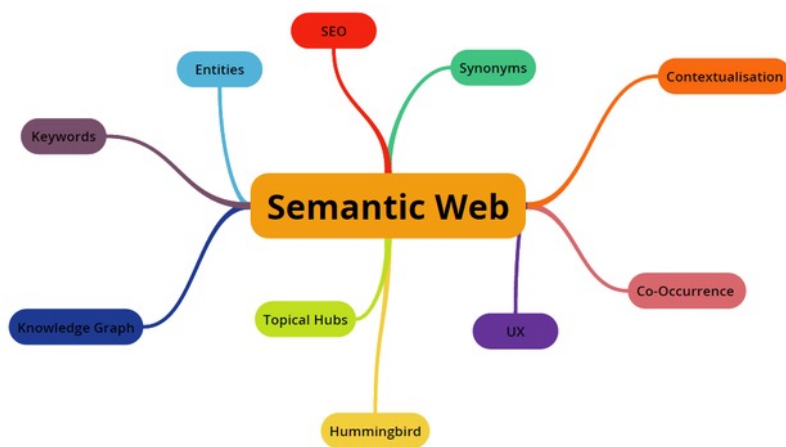
Authority Control

- ☐ Standardize author and corporate author entries based on authority files e.g. [VIAF](#), [LOC](#), [NACO](#)
- ☐ Indicate authorities used for name-authority control
- ☐ Link name values to associated name authority files via hyperlinks

CONCLUSION



IRs = Positive step toward enhancing discovery of research outputs from Africa



Scope for more work to maximize discovery of IR content through semantic web

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[doi:10.1002/bult.2009.1720350410](#). [hdl:2027.42/62145](#). ISSN 1550-8366.
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8. DCMI Usage Board. 2020. [DCMI Metadata Terms](#).