

Progress of Nigerian National Open Science Roadmap and Infrastructure Development

PRESENTED BY:

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BACKGROUND

Why A National Road Map?

- Nigeria is most populous country in Africa with over 200 million people
- Over 550 Higher Education Institutions including over 170 Universities
- Only 17 out of 5317 registered open access repositories in ROAR
- Only 23 journals out of 19,418 in Directory of Open Access Journals
- A ***national*** open science plan needed to increase scholarly and research output to have more impact on societal challenges

Open Science Journey (2017 -)

- Strengthened REN collaboration with Library
 - Created framework for REN provided infrastructure and support for library and helped to refine service offerings to the R&E community
 - Open Science Cloud is guided by the principles in the LIBSENSE Open Science Africa Statement.
 - Contributing as Co-Chair of the LIBSENSE Infrastructure Working Group
- Provided toolkits and templates for open science policies and practice.
- Facilitated working relationships with regional and international open science stakeholders



LIBSENSE
STRENGTHENING OPEN SCIENCE IN AFRICA

Library Support for Embedded NREN Services and E-infrastructure

Libraries in support of effective research in WACREN

Wednesday 5 Oct 2016, 09:00 → 17:00 Africa/Lagos

NUC Auditorium (Nigerian Research Education Network (NgREN))

Victoria Okojie (IFLA)

Description **Libraries need better links and access – NRENs need libraries**

A discussion on the benefits of closer cooperation between WACREN and libraries.

Who should attend

- National Library Associations and Library Consortium Leaders
- Librarians working for better access to licensed and open access content, open data and open science platforms and output.
- Academic researchers needing these services
- Campus network and IT managers, Trust and Identity Management System Operators, Library automation and systems support

The workshop is free of charge, but requires registration.

Concept Paper Group picture

Participants

Adesola Victoria ALADE ahioma ibegwam Ahmad Abdu Balarabe Ali Maina Bala AYODEJI OWOJUWIGBE
Binta Farouk Blessing Ahiazu CECILE COULIBALY Charles Esimone Dalhatu U. Jibril DANIEL KASSAR

Nigerian Open Science Roadmap Overview

- Roadmap devised in 2021 as a result of workshops and templates developed by LIBSENSE between 2017 & 2020
- 3 Cadre of stakeholders identified within the Nigerian roadmap
 - National Policy Influencers
 - Chief Executives (and their ICT Directors)
 - Librarians and Researchers
- Tools and Resources for roadmap implementation
 - Webinars and Workshops
 - Users Conference
 - Community Open Science Cloud to establish pilot projects

Areas to Address in Roadmap Delivery

Identify and bring stakeholders together to engage in a series of activities on:

1. **Capacity Building:**

Run a series of workshops to improve the digital literacy and skills of research and education practitioners

1. **Infrastructure:**

Identify infrastructure gaps, tools and platforms that can increase adoption

1. **Policy:**

Consultation meetings and a workshop to create working groups and document a national Open Science policy

Activities Towards Roadmap: 2021 - 2022

Capacity Building...

- **ACTIVITIES**

- Digital literacy workshops for Librarians and Researchers
- Participation in LIBSENSE capacity building activities -
- Engage students in Open Access, Open Education, Citizen Science

- **OUTCOMES**

- Open Science principles and practice reinforced within the R&E community
- Tools and infrastructure available to drive Open Science practice introduced
- Open Science Sessions at Eko-Konnect User Conference 2021 - 2023

Capacity Building: Digital Literacy Webinars

- International Partnerships for capacity building.
- Digital literacy skills development
- E-learning platform support & services

E-LEARNING & TEACHING WORKSHOP FOR DIGITAL TRANSFORMATION IN NIGERIAN UNIVERSITIES

FACILITATORS

 Sarah Knight
Head, Learning & Teaching
Transformation Jisc

 Lisa Gray
Snr Consultant,
Learning & Teaching Jisc

MODERATOR

 Owen Iyoha
MD, Eko-Konnect

- Gain understanding of digital capabilities
- Learn about tools and resources to measure digital capacity
- Improve digital capability for your institution

 **10th May 2021**
11AM - 12.30 PM

Register Here <https://bit.ly/3wURK9m>

  Digital University Africa:  Funded by **BRITISH COUNCIL**

Policy: Nigerian Open Science Symposium

- Open Science Recommendations
- Policy Definition
- Policy Enactment
- Best Practices
- Community Development
- Awareness & Advocacy
- Call To Action



NATIONAL OPEN SCIENCE SYMPOSIUM

TOWARDS AN OPEN SCIENCE ACTION PLAN FOR NIGERIA

POLICY CAPACITY INFRASTRUCTURE

SPEAKERS

 Owen Iyoha Eko-Konnect	 Iryna Kuchma EIFL	 Dr. M.A Popoola TETFUND	 Nabil Kisibi ORCID	 Dr Pam Abbott University of Sheffield	 Prof. Bashir Galadanci RDSC, TETFUND	 Bill Hubbard Jisc	 Omo Oaiya WACREN
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ek: KONNECT

REGISTRATION: [HTTPS://BIT.LY/370LWCP](https://bit.ly/370LWCP)

DATE: 1&2 SEPT 2021
TIME: 10AM-1PM DAILY

Policy: Call To Action

1. Open Science Advocacy and Capacity Building Plan for Nigeria.
1. Document National Open Science Policy and include in National Research Development Foundation (NRDF) Bill to National Assembly if possible.
1. Enhance infrastructure collaboration between TETFund, Service Providers and REN Community.

Eko-Konnect 2022 Users Conference

- Held in January 2022 <https://2022.eko-konnect.org.ng/>
- Sessions included:
 - Fulfilling Open Science Roadmap with Open Research
 - Growing the Nigerian eduID Federation
 - Improving Funding For Open Science
 - Spawning Open Science Communities on Campus
 - Using <https://ren.ng> Infrastructure and Services

INFRASTRUCTURE

Open Science Infrastructure Developments

- Consolidating on existing services for Open Science Cloud
 - Nigerian Identity Federation - eduID.ng
 - Hybrid Learning and Collaboration
- Collaboration with Coko to pilot publishing platform - Kotahi <https://www.eko-konnect.org.ng/eko-konnect-adds-kotahi-to-community-open-science-cloud/>
- Research Data Management Platform based on InvenioRDM pilot
- Soft launch of Cloud Service Platform (ren.ng website) by end of 2021

Open Science Community Cloud



<https://ren.ng>

PID Roadmap Implementation

- Increase adoption & use of Persistent Identifiers - PIDs
- Consortia are usually needed to bring PID stakeholder community together
 - develop appropriate community governance & sustainability models
- Effective involvement of RRENS & NRENS for strategy, governance & support
 - Leverage national and regional Identity Federations
- Adopt DOIs, ORCID, ARK at national and regional level
- Emphasis on complementarity of PIDs
- Improve the scale & depth of PID integration in every day workflows

Activities Towards Roadmap: 2023 -

Eko-Konnect 2023 Users Conference

- Open Science themed conference: <https://2023.eko-konnect.org.ng>
 - Using Open Science Infrastructure to expand scholarly & research outputs
 - Open Access Adoption In the Nigerian Context
 - Lifelong Identity For Education
 - Maximising PIDs for Global Research Visibility
 - Building EO GIS Capacity for Research and Education

Partnership with AULNU

- Preparing an MoU with the Association of University Librarians of Nigerian Universities - AULNU
- Eko-Konnect to work on behalf of AULNU to strengthen Open Science practice of the Nigerian Library Community
 - Consortia initiatives
 - Open Science Policy Workshop
 - Develop a series of capacity building initiatives for library

Open Access Policy & Infrastructure Workshop for VCs

- 2 day workshop Scheduled for July 2023 in Abuja: Facilitation
 - Sec. Gen - Association of Vice-Chancellors of Nigerian Universities AVCNU
 - Open Access Coordinator of Covenant University
 - Eko-Konnect
- 28 ‘Open Science Friendly’ VCs shortlisted for workshop
- Implementation of Open Access Policy at institutional level
- Open Infrastructure and PID adoption support
- Some Expected Outcomes - Signing Draft MoU Commitment to Open Access Policy & PID consortium initiatives

Open Science Workshops for Early Career Researchers

- Expecting to Schedule Campus Workshops in Q4
- Support from VCs as result of VC workshop and commitment
- ECRs more inclined to adopt open science practice to enhance careers
- More amenable to use Open Infrastructure and PIDs
- Workshops will look at ensuring closer collaboration of ECRs with librarians in promoting Open Science practice

THANK YOU