
Making It Possible: Shared Infrastructure for the R&E Community

OWEN IYOHA

EKO-KONNECT RESEARCH AND EDUCATION INITIATIVE

www.eko-konnect.org.ng

secretariat@eko-konnect.org.ng

The Eko-Konnect Open Science Journey

About Eko-Konnect

- Community-driven Research & Education Network (REN) established in 2009.
- To deliver affordable connectivity, “above the net” services and research infrastructure
- To facilitate collaboration with WACREN & the global REN community.

Open Science Journey (2013-2016)



e-Research Hackfest Experience and MIPAR

DRUG DESIGN, DISCOVERY AND DEVELOPMENT PLATFORM AND REPOSITORY (D4PR)- FINAL REPORT

Valorization of Open Data Archive and Documentation of the University of Ibadan Research Metadata Platform (UI-NADA) <http://nada.ui.edu.ng/>

Sci-GaIA
www.sci-gaia.eu
Olayide, Abdulazeez, Adelopo & Rising John Osazuwa
University of Ibadan, Nigeria
olayide@yahoo.com, adelopo@ui.edu.ng
WACREN HARBEST 2016 Lagos, NIGERIA

Benjamin Arbisala – Lagos State University - Nigeria (Lagos State University)
WACREN e-Research Hackfest – Lagos (Nigeria)

Ren... Robot certifi
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Certificate R List

If you are interested in either Federation(s), please contact
This IdP has been deployed Africa.
The ngREN Catch-All Identifi

Enabling and Improving Research Output : e-Infrastructure and services for African research communities

Friday 11 Mar 2016, 09:00 → 15:30 Africa/Lagos

Seminar Room 104 (Human Resource Development Centre (HRDC))

Charles Uwadia (Chair, Board of Trustees, Eko-Konnect)

Description The event is open to all researchers, and will have contributions from both sides of the e-Infrastructure equation.

An overview of the e-Infrastructure model would be given, explaining how NRENs and other institutes provide services to research communities and how researchers could typically benefit from these services.

Examples of services are

- Identity Federations : Improving access to services and researcher mobility
- Computing and Data Infrastructures: Enabling digital research and teaching
- Collaboration tools : enabling research communities in conducting the day-to-day execution of their research
- Open Access data and document repositories : improving the visibility and impact of research, and access to research output.
- Interoperable infrastructures ; removing barriers to regional and international collaboration

This is the outline of the "offer", to start the conversation. In reply, we will showcase a few outlines of the "demand" - presentations by researchers which have need of some or all of these services. They will outline their research agenda and explain the typical workflow.

The seminar will end with a round-table discussion

Contact secretariat@eko-konnect.org.ng
01-3428566

Open Science Journey (2017-)

- Host of the WACREN Cloud Pilot-2017-2020
 - Hosted shared services for NRENs & Science Gateways for Researchers
 - Hosted library management systems and e-learning systems
 - Developed prototype Identity systems for R&E community
- Identity Providers IdPs and other services like DNS & eduroam



Latest News

13 Oct 2017
CALL FOR PAPERS –
WACREN 2018
01 Oct 2017

<https://wacren.net/en/news/wacren-cloud-pilot-open-call/>

WACREN Cloud Pilot - Open Call

WACREN is seeking collaborators from its NREN community for pilots of cloud and shared services hosted in the region. These Infrastructure as a Service (IaaS) pilots will be based on [Synnefo](#), a complete open source cloud stack written in Python that provides Compute, Network, Image, Volume and Storage services, similar to the ones offered by AWS.

“Synnefo manages multiple [Ganeti](#) clusters at the backend for handling of low-level VM operations and uses [Archipelago](#) to unify cloud storage. To boost 3rd-party compatibility, Synnefo exposes the OpenStack APIs to users.”

Partners

WACREN has signed a technical collaboration agreement with GRNET, the Greek National Research and Education Network and developers of the Synnefo software for its expertise in setting up and organizing a IaaS cloud computing service.

WACREN encourages participation of all stakeholders in the development of the NREN business model and envisages partners in the following categories.

Hosting Partners

RENs in West and Central Africa with reliable datacenters or in collaboration with local datacenter operators that can act as hosts. These partners will need to provide server hardware and connectivity for their clusters.

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

The screenshot shows a LinkedIn event page for 'Libraries in support of effective research in WACREN'. The event is scheduled for Wednesday, 5 Oct 2016, from 09:00 to 17:00. The location is NUC Auditorium (Nigerian Research Education Network (NgREN)) in Victoria Okojie (FJA). The event description is 'Libraries need better links and access – NRENs need libraries', which is a discussion on the benefits of closer cooperation between WACREN and libraries. The page lists attendees such as Adesola Victoria ALADE, aishaoma ibegwam, Ahmad Abdu Balarabe, Ali Maina Bala, AYODEJI OWOJUYIGBE, Binta Fanta A, Blessing Ahsani, CECILE ODLIBALY, Charles Eismone, Dahunu U. Jibril, and DANIEL KASSAR.

Open Science Journey (2017 -)

Eko-Konnect Repository Workshop and eduID Policy meeting

Monday 27 Jan 2020, 09:00 → 19:30 Africa/Lagos

Obafemi Awolowo Room (Radisson Blu Hotel)

Charles Uwadia (Chair, Board of Trustees, Eko-Konnect), Owen Iyoha (Eko-Konnect)

Description This 1-day workshop which precedes the annual Eko-Konnect user conference will be held in collaboration with WACREN and the National Institute of Informatics, Japan (NII).



The morning session will focus on the WEK03 multi-tenancy repository and a data management platform for open access to research, teaching and learning materials.

The afternoon session will be dedicated to contemporary methods for providing the identity-based frameworks needed to access these research data and protect intellectual property. It will also include the latest updates on eduID on the pilot Moroccan Identity Federation.

ATI-6: Workshop on joining eduroam and eduid.africa



26-28 February 2019
Covenant University
Africa/Lagos Ileshoze

Enabling and Improving Research Output : e-Infrastructure and services for African research communities

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WEBINAR : THE ROLE OF THE REN IN THE RESPONSE OF NIGERIAN HIGHER EDUCATION TO THE COVID-19 PANDEMIC.

30 JULY • 11 am WAT

REGISTER
<http://bit.ly/RoleOfTheREN>

Join our webinar

- Responses to the pandemic
- The role of the REN
- A roadmap for research and innovation

www.eko-konnect.org

LIBSENSE WEBINAR REPOSITORY INTEROPERABILITY AND HARVESTING

14:00
15:30
UTC

26 MONDAY
OCT 2020



Register now <https://bit.ly/3dHbtQJ>

Overview

Timetable

Registration

Accommodation

Tracking research outputs

12-13 December 2017
Eko-Konnect Secretariat
Africa/Lagos Ileshoze

Overview

Registration

Participant List

Eko-Konnect Secretariat

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The 2-day work in the delivery of the e-Infrastructure model is held in collaboration with WACREN held in Lagos. Building on regional access to local follow-up activities.



Time to LEVEL UP your skills ICT4Girls Program

- Online Courses In Internet of Things, Robotics and Data Science
- Virtual Hackathon
- Community Day

Register Now: <https://bit.ly/3aXxSaU>



Nigerian Community Open Science Cloud

Community Cloud Platform for Open Science

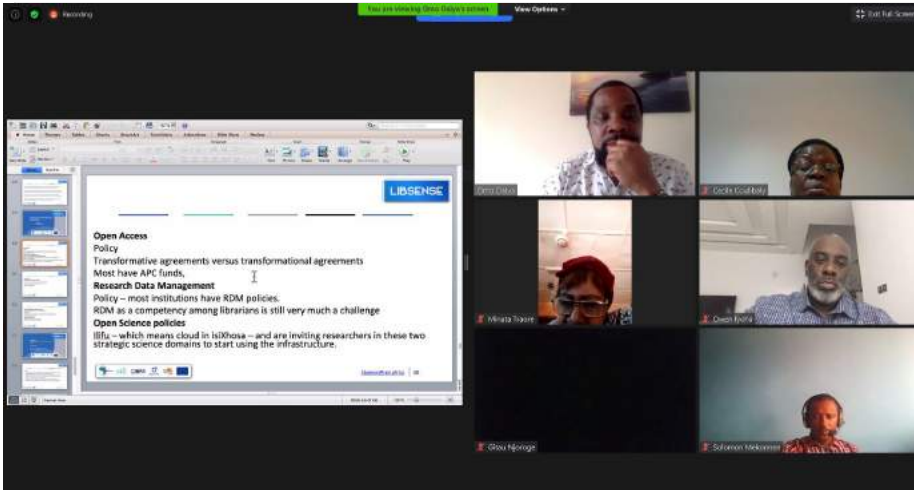
- Identify infrastructure gaps and form collaborations with technology providers to deploy infrastructure in areas including:
 - Federated Identity & Access Management
 - Journal and Preprint Publishing
 - Publication and Data Repositories
 - Learning & Collaboration Platforms
 - Cybersecurity

Open Science Community Cloud



<https://ren.ng>

Communication and Collaboration



- On-premise meeting connectors for VideoConf
 - Zoom (needs licenses)
 - Open Source alternative
- IdP for user and access management
- Integrated into VLE and daily workflow
 - Chat and meetings
 - 1:1 or Group
- Lecture/Webinar/Conferences

Scholarly Communication and Collaboration

Institutional repositories for digital assets and research data

- Shared Journal and Preprint Publishing Platform
- Shared Research Data Management Platform

Capacity building with LIBSENSE

- Early Career Researcher training
 - Training programme on open science and data science
 - Open Science Communities on Campus
- Curricula and Leadership programmes



Brought to you by



Caltech Library



data futures



Coko
We build, you publish

Announcement: Kotahi Selected for Eko-Konnect Pilot

May 10, 2021

#community #featured #future of publishing

The banner features the Coko logo and text on the left, and the main announcement text on the right. It includes a date and three social media-style hashtags.

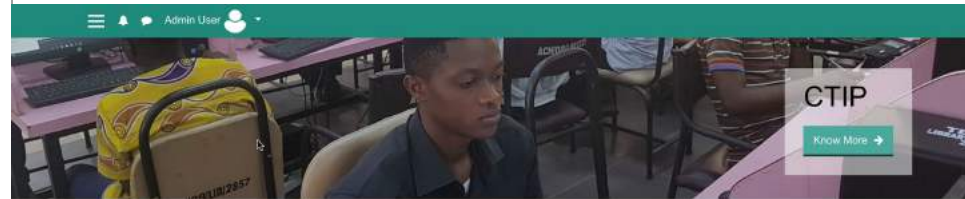
We're delighted to announce that Kotahi has been selected as part of an exciting pilot scheme with **Eko-Konnect**, the Research and Education Network based in Lagos, Nigeria.



Kotahi is a community-built, state-of-the-art scholarly publishing system designed to improve how research is produced and shared. It's purpose-built to encourage innovation and inspire new ways of creating micropubs, publishing journals and preprints, writing reviews and pretty much everything else you need from a publishing system.

E-learning - Virtual Learning Environments

- Offering Moodle services to R&E since 2004
- Platform support + helpdesk for tutors/students for MPH (<https://peoples-uni.org>, 2006 - 2021)
- Women-in WACREN
 - STEM skills for women
 - Online robots and electronics



CAMPUS TECHNOLOGY INTERNSHIP PROGRAMME (CTIP)

Our student internship program called the Campus Technology Internship Program – CTIP develops the skills and potential of interested students to apply technology in projects that solve societal problems and develop entrepreneurship skills.



WOMEN IN WACREN COMMUNITY

The Women in WACREN program is designed to help reduce the gender inequality gap in STEM and promote innovation and use of maker spaces within NRENs.



ADOPT-A-BOT

We use robots as an innovative way to teach and encourage secondary school students to take up computer science at a young age. The 'adopt a bot' training also seeks to develop ways for each student to own (adopt) their own robot to help with self-paced learning on how to code.

Course categories

Introduction to Programming (2)

Women in WACREN (1)

▼ Collapse all

Consultancy

- 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

000000 **10th May 2021**
11AM - 12.30 PM

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

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

Training...

- Onsite Training
- Remote Training
- Course development
- Administration
- Helpdesk Implementation & Support



Role for RENs in supporting Open Science

- Provide cloud based shared infrastructure and services to expose different cadres within HEIs to their community of practice.
- Expose institutions and stakeholders to global standards and practices in Open Research
- Provide Trust and Identity Frameworks for secure sharing and visibility
- Provide reporting infrastructure for wider stakeholders e.g. Funders
- Facilitate the inclusion of all relevant stakeholders for a national open science engagement

Contact Information

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