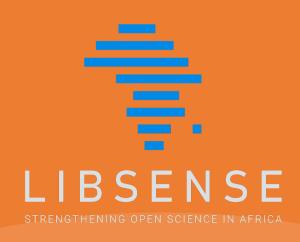
An African framework for sustainable open science



Open Science Conference 2021 | United Nations Academia and Open Science Infrastructure

Omo Oaiya, WACREN















- NRENs in Africa: 10 years of AfricaConnect
- The LIBSENSE Community Approach
- Fostering Institutional Open Science Culture











National Research and Education Networks in Anticafri





AfricaConnect (2011-2015) - E&S Africa



AfricaConnect2 (2015-2021) – pan-African



AfricaConnect3 (2019-2023) – pan-African

Start date: 16/Nov/2019

Duration: 48 months

Funding: EU Grant Contract

Budget: 37.5M€ (80% EU -30M EUR)

• 23.2M€ for connectivity, equipment and cloud

ASREN

Algeria, ARN Egypt, EUN Marocco, MARWAN Tunisia, CCK

Côte d'Ivoire, RITER Ghana, GARNET Ghana, GhREN Guinea, Gn-REN Mali, MaliREN Niger, NigerREN Nigeria, NgREN

> Togo, TogoRER Liberia, LRREN

WACREN

Burkina Faso, FasoREN

Cameroon, RIC Chad, TchadREN Kenya, KENET Namibia, Xnet Sierra Leone, SLREN Sudan, SudREN Tanzania, TERNET Uganda, RENU Zambia, ZAMREN

Zimbabwe, ZAMREN









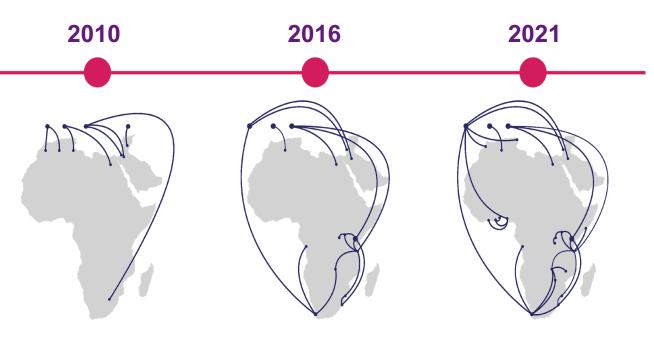




A Pan-African Network in the Making

Africa 3

- Since AfricaConnect started in 2011, 22 out of 38 African NRENs are connected to their regional network:
- UbuntuNet Alliance: Burundi, DRC, Kenya, Malawi, Mozambique, Rwanda, Somalia, South Africa, Tanzania, Uganda, Zambia and Zimbabwe.
- WACREN: Benin, Burkina Faso and Côte d'Ivoire, Ghana, Nigeria and Togo.
- ASREN: Algeria, Egypt, Morocco and Tunisia.
- All three regional networks are growing.
- Next countries to be connected: Mali and Ethiopia.













AC3 Objectives and Outputs



- Enhance human capital development in Africa.
- Unlock the potential of education and research through increased access of African education and research institutions to digital infrastructures and technologies.



Output 1: Access to affordable and adequate e-infrastructures is increased.



Output 2: Dedicated RE services and applications are developed.



Output 3: Adequate human resource capacity and expertise is built.



Output 4: Digital transformation in research and education is raised.













Africa 3

- Service outreach to science communities, deployment of R&E applications and access to repositories
- Trust and Identity for seamless access edulD.africa
- Proactive Cybersecurity for NRENs and their Digital Assets - TrustBroker.africa
- Federated Identity Management for Libraries and Open Science platforms















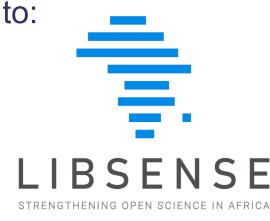
LIBSENSE – Objectives



(Library Support for Embedded NREN Services and E-infrastructure)

Building a community for open science in the African region(s) through library-NREN collaboration since 2017 in order to:

- Support cultural change
- Provide technical support
- Build capacity
- Develop value-added services















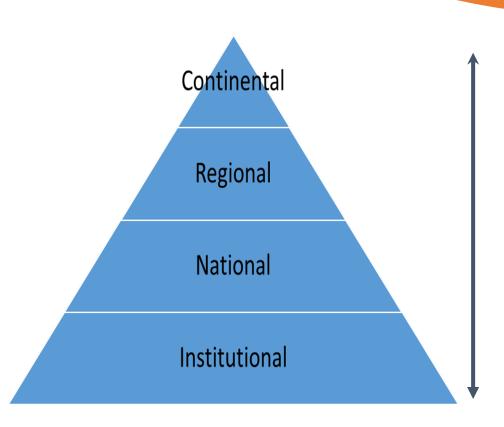


Overall Strategy:

- Building communities of practice
- Strengthening local and national services
- Bottom-up, distributed, heterogeneous
- Inclusive -
 - 3 Working languages, Arabic, English and French
 - Indigenous and traditional knowledge

Three Pillars:

- Policy: open science policies, governance and leadership
- Infrastructure: open access journals, repositories for publications and data and open discovery services
- Capacity-building: communities of practice and training







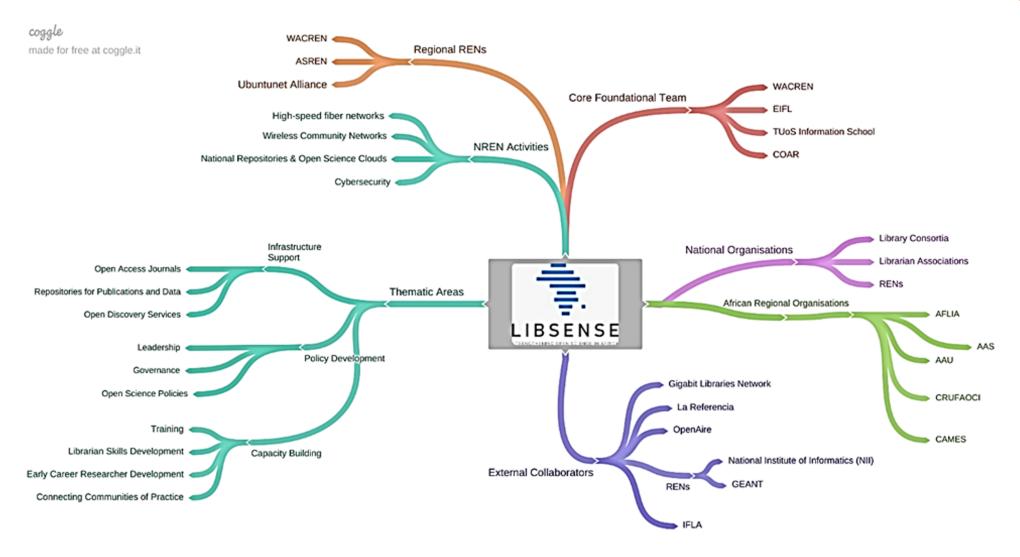






LIBSENSE – Partners & Networks















LIBSENSE Timeline (2016-2019)



Initial Activities and Ideas

- Library Open Access Workshop
- Institutional Focal Points Workshop
- Setting the agenda for LIBSENSE
- Informal collaboration btw. EIFL & WACREN
- TUoS Information School joins collaboration

Connecting to AfricaConnect 2 (AC2)

- COAR workshop on repositories for pan-African harvester
- AC2 funds pan African survey/workshops on OAR
- Survey launch in 3 regions commences
- Pan-African LIBSENSE workshops commence



2016

2017

2018

2019



- WACREN LIBSENSE workshops commence
- COAR brought on board as key collaborator
- Pilot survey planned and implemented
- Pilot survey results presented at UA conference

Workshop Activities and Outputs

- · LIBSENSE workshops in all regions completed
- · Outputs include roadmaps, guidelines, survey reports, workshop reports
- · Community activities begin to make impact
- Plans for AC3 LIBSENSE drawn up











LIBSENSE Timeline (2019-2023)



Skills Profiles Webinars

- Skills Profiles for HEI Librarians
- Anglophone & Francophone

Capacity-building workshops

- Open access publishing
- Research data management, repository interoperability, and persistent Identifiers

National Open Science Roadmaps

Côte d'Ivoire, Ethiopia, Ghana, Lesotho,
Mozambique, Nigeria, Somalia, Tanzania, and Uganda

National open access repository and publishing platforms

- Nigeria, Côte d'Ivoire, ...

National Policy Development Workshops

- Nigeria, Côte d'Ivoire, ...

2022

2020

2021

UNESCO Open Science Partnerships

 Open Science Africa: Principles and Actions for Global Participation

Other Partnerships

- LA Referencia, RedCLARA
- RUFORUM

AC3 Regional Policy Development Workshops

- Colocated with Ubuntunet Alliance, ASREN and WACREN annual conferences
- Co-organised with regional associations of VCs/Rectors
- Focus on policy implementation moving from highlevel goals to role of institutions in implementing open science











Fostering Institutional OS Culture



- Research and university communities engagement
 - Early Career Researcher (ECR) training program
 - Practical guidance and training to help researchers learn how to open up their research processes and results
 - Leverage installed infrastructure base
 - Establish OS communities on campus to sustain training
 - Leadership programmes
 - Garner support from employers/supervisors for incentives and policies on data and open science skills.











Thank you

Any questions?

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AC3-Community



africaconnect3.net

















