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A knowledge asset of the African Ministers’ Council on Water

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AU-NEPAD African Centers of Excellence on Water Science and Technology

African Water Week 2018 – Libreville (GABON)

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3. University of Benin (Nigeria)
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**Southern African CoE Network**

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10. University of Malawi
11. University of Zambia
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13. The Council for Scientific and Industrial Research, CSIR (South Africa)
14. Namibia University of S&T
15. National University of S&T (Zimbabwe)
16. University of Mauritius

**Eastern and Central Africa CoE Network (since aug.2017)**

17. Makerere University (Uganda)
18. Water Research Center, University of Khartoum (Sudan)
19. Ethiopian Institute of Water Resources, Addis Ababa University (Ethiopia)
20. IGAD Climate Prediction and Applications Centre (Kenya)
Scientific level

1. Development of Scientific knowledge, expertise and (demand-driven) tools
2. Support to capacity building and skills development in the water sector

Policy level

1. Setting of strategic priorities on WEFE resources within transboundary river basins
2. Cooperative framework for regional dialogue
3. Capacity needs assessment

Centers of Excellence Network is a platform for regional dialogue and collaboration with policy representatives
Scientific level

1. Development of Scientific knowledge, expertise and (demand-driven) tools
2. Support to capacity building and skills development in the water sector

Sound scientific expertise on WEFE nexus at different scale (from local to river basin):
1. state of the art guidelines and manuals
2. scientific reports and technical assessments
3. databases (spatio-temporal data and maps)
4. models
5. capacity building packages

Development of higher education and vocational training skills assessment
Support to national strategies for capacity enhancement on water issues

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AMCOW – African Ministers’ Council on Water

1. Decision #12 of the 11th AMCOW Executive Committee (2013) on addressing Junior Professional and Technician Level Capacity Challenges in the Water Sector in Africa, where EXCO notes (cit.): the growing human resources shortages to achieve water and sanitation goals in Africa and directs the Secretariat to work with the AUC and NEPAD Centres of Excellence to develop a Human Capacity Development Programme aimed at addressing junior professional and technician level capacity challenges in the water sector.

2. Decision #14 of the 10th AMCOW General Assembly (2016) supporting concrete activities to address the Junior Professional and Technician Level Capacity Challenges in the Water Sector in Africa.

River Basin Organizations: ZAMCOM, OMVS, NBA, NBI
1. Needs on WEFE nexus issues across selected river basins
2. Technical and scientific capacity gaps of member states / riparian countries

Regional Economic Communities: ECOWAS, SADC, IGAD
1. Regional priorities for water resources assessment and common sector priorities for HCD

Policy level

1. Setting of strategic priorities on WEFE resources within transboundary river basins
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Project framework

ACEWATER2
Coordination Team JRC – DEVCO – UNESCO-IHP - AU-NEPAD HUBS

AU-NEPAD COE WATER

Scientific-Technical Activities JRC

WEFE nexus assessment in transboundary river basins

Data Management, Sharing and Decision Support Tools

Scientific and High-Level Technical Training to Decision Makers

Human Capacity Development Program UNESCO-IHP

Common Sector Priorities for High Education institutions

National HCD Prog. for JP&Tech Level

Implement HCD Program
AU-NEPAD African Networks of Centers of Excellence on Water

SCIENCE COMPONENT

addressing WEFE nexus assessment in large river basins

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Main Water Sector Challenges:

- Infrastructure
- Finance
- Human Resources
Most Difficult Challenge is People

“There are not enough appropriately skilled water professionals to support the attainment of universal access to safe water and sanitation.” (International Water Association 2014 Study)

Not Enough People

How Big are the Gaps? **We don’t know.**

Inappropriate Training

Where are the Gaps? **We don’t know.**
How Will the Human Capacity Gaps be Addressed Differently?

Building National HCD Frameworks

- Up to Date Water Sector HC Needs Assessments
- High Level Gov’t buy in to Public & Private Sector, Education Inst. & wide Public Consultations on Priorities
- Design and Implement National HCD Frameworks
Fostering scientific and technical capacities and competencies in Africa’s Water Sector through the AU-NEPAD Water Centers of Excellence
Tuesday, 30th October 2018, from 9:00 to 10:30

Enhancing the Resilience of the African Water Sector to challenges of knowledge and skills migration under climatic, political and socio-economic pressures:

What are the roles of the NEPAD Water Centres of Excellence, the Regional Economic Commissions and River Basin Organizations?

Participants:
1. Niang Awa FALL - Secretariat of the Western Africa Network of Centers of Excellence (Université Cheikh Anta DIOP)
2. Nico ELEMA – Secretariat of the Southern Africa Network of Centers of Excellence (Stellenbosch University)
3. Zeleke AGIDE - Eastern Africa Network of Centers of Excellence (Ethiopian Institute of Water Resources)
5. Anton Earl – SIWI Africa
6. Rapule Pule – Water Resources Specialist, ORASECOM
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Thanks

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