



NEPAD African Networks of Centers of Excellence

Introduction of the Scientific Component

ACE WATER phase II

*Water Resources Unit
Joint research Centre, Italy*



ACE WATER phase II: NEPAD African Networks of Centers of Excellence

Dec. 2015 -> Oct. 2019

Budget: 6.000K€ (5.000K€ DEVCO + 800K€ JRC + 200K€ UNESCO)

Main Objective: to foster **sustainable capacity development** at institutional, higher education, technical, scientific and vocational level in the water sector through the NEPAD/AU network of water CoEs

Activities:

- **Strengthening** of two existing *NEPAD water Centres of Excellence networks* in **West and Southern Africa**;
- **Creation** of two *NEPAD water Centres of Excellence networks* in **Central and Eastern Africa**;
- **Strengthen** institutional **networking and improving research** support to **policy making** in the water sector;
- **Support the implementation of the African Water Ministers' declaration** urging AUC and NEPAD Centres of Excellence to develop a **"Human Capacity Development Programme for junior professional and technician level capacity challenges in the water sector"**.

Phase II of the EC support, 2016 – 2019

Implementing organization (General coordination JRC):

- **JRC – Coordination of the Scientific and Technical activities**
- **UNESCO-IHP – Coordination of the Human Capacity development Programme at national level**

Regional Coordinators:

- **University of Stellenbosch (Southern Africa)**
- **University UCAD Dakar (Western Africa)**
- **Eastern and Central Africa (selection to be carried out)**

Key Stakeholders:

- **AMCOW, AMCOST, NEPAD, ANBO, RECs**

**ACEWATER2
Coordination Team
DEVCO – JRC – UNESCO-IHP
AU-NEPAD Hubs (2 W-S + 1 C-E)**

**General Implementation Coordination
JRC**

**Scientific-Technical Activities
JRC**

**Human Capacity Dev. Prog.
UNESCO-IHP**

AU-NEPAD CoE Water



Extending the Network – Eastern - Central



Improve Data Management and Sharing



Regional Capacity Development and Technical Transfer



Institutional Networking and Cooperation



Common Sector Priorities for High Education institutions



National HCD Prog. for JP&Tech Level



Implement HCD Prog. in 3 Countries

Western African CoE Network members

- University of Cheikh Anta Diop (**Senegal**)- **Coordinator**
- International Institute for Water and Environmental Engineering (**Burkina Faso**)
- University of Benin (**Nigeria**)
- National Water Resources Institute (**Nigeria**)
- Kwame Nkrumah University for Sciences and Technology (**Ghana**)

Southern African CoE Network members

- Stellenbosch University (**South Africa**) – **Coordinator**
- International Centre for Water Economics and Governance in Africa (**Mozambique**)
- University of KwaZulu-Natal (**South Africa**)
- University of Western Cape (**South Africa**)
- University of Malawi (**Malawi**)
- University of Zambia (**Zambia**)
- University of Botswana (**Botswana**)
- The Council for Scientific and Industrial Research, CSIR (**South Africa**)
- Namibia University of S&T (**Namibia**)
- National University of S&T (**Zimbabwe**)
- University of Mauritius (in Process)



Eastern and Central Africa

- Selection to be carried out 2016-2017

Scientific-Technical Activities JRC

T1

Extending the Network

- Design-Launching the Call for Interest to Extend the Network (At least 2 Institutions: 1 East, 1 Central)
- Assessment – Evaluation

T2

Improve Data Management and Sharing (coll. UNESCO)

- Regional Database on Hydro-Climatology + Others
- Atlas on Water Crises and Cooperation
- Cooperation Initiatives : UNESCO-IHP, ESA-TIGER, CIRAD, CREAM

T3

Regional Capacity Development and Techn. Transfer

- Research management and leadership
- Climate Variability Analysis
- African WEF Nexus Assessment / SDGs

T4

Institutional Networking and Cooperation

- Collaboration (MoU) with the RECs, ANBO, AMCOW, ...
- Collaboration with MENA and Pan-African Universities
- Participate to H2020 activities

TOPIC 2 - Data management and sharing

TASK A : Improved regional databases available

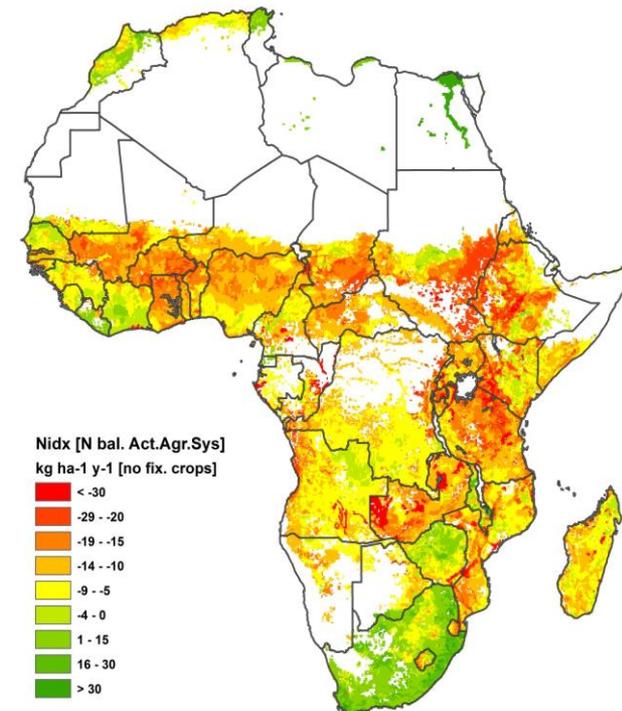
- Hydro-climatologic data for Western CoE network.
- Water resources management/resilience data for Southern CoE network

TASK B: Cooperation with other Data Initiatives

- Other data

TASK C: Atlas on Water Crises and Cooperation

- Scenario based analysis : Climate Variability – Impacts on resources / socio-economy



TOPIC 3: Capacity Development and technology transfer



TASK A: Capacity development on managerial skills and training for trainers for the NEPAD CoE networks
 → Preparing Call for Proposals H2020+AU
 → Replication/extension of 1 week workshop of interest implemented in phase I



TASK B: Implementation of scientific products to support decision making regarding:
 → Climate Variability Analysis → Products to contribute to the Atlas WCC
 → African WEF Nexus Assessment

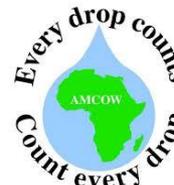
TOPIC 4: Networking and cooperation



TASK A + B: Implementation of existing agreements (MoU) with RECs. Extend collaboration with RECs for Central and Eastern African region.



TASK C: Reinforcing collaboration between CoE and AMCOW with a link with the Pan African Universities and MENA initiatives.



TASK D: reinforce coordination with other EU-supported initiatives (including H2020)

Objectives of the **SCIENTIFIC** meeting

1. Introduce and share scientific and technical objectives of the ACEWATER2 project among project partners and stakeholders
2. Share valuable experiences and competences of CoE (and stakeholders) to address the design and delivery of the Atlas on Water Crisis and Cooperation (ATLAS WCC) by means of plenary and group sessions;
3. Raise awareness about collaborations with other European Research Institutions (CREAF, CIRAD-IRSTEA, etc.) in the framework of supported initiatives (H2020, AU Calls, ...).
4. Discussing and outlining potential collaborations and planning implementation of foreseen activities (way forward)