





german cooperation DEUTSCHE ZUSAMMENARBEIT

Pan African University Institute For Water And Energy Sciences (Including Climate Change) – PAUWES –

A Pan African Research Agenda on Water, Energy and Climate Change RERIS 2018 - Lesotho



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25th January 2018

Agenda



- Introduction to PAU as flagship project of the African Union
 - > Objectives
 - Mission and scope
 - Thematic Areas and Locations
- Presentation of PAUWES
 - PAUWES Master Programs
 - > Overview of Cooperation
- Presentation of the PAUWES Research Agenda
 - Vision and Focus of research
 - Research Priorities
 - Implementation of the Research Agenda

PAU Objectives



- The Pan African University (PAU) is pan-African internationally acknowledged <u>network university</u> contributing to the development of higher education and applied research for the sustainable socioeconomic advancement in Africa.
- PAU is a response to :
 - ✓ the urgent need to revitalize higher education and research as major tools for ensuring high level HR and intellectual capital for Africa's development,
 - \checkmark to promote world class and yet locally relevant research
 - ✓ to provide an exemplar for excellence in African HE and research
 - Academic and Scientific Arm of the African Union

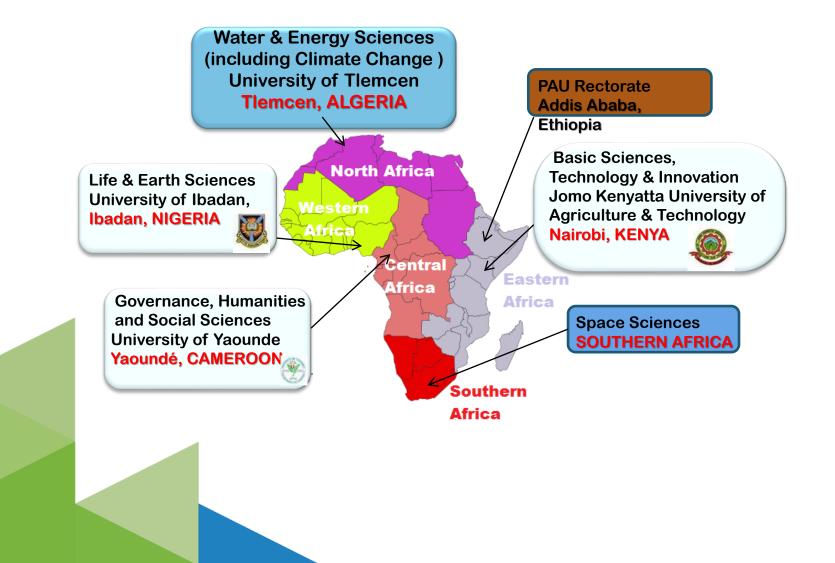
Missions and Scope of PAU



- Develop *continental-wide* and world-class graduate curriculum;
- Development oriented research in areas having a direct bearing on the development of Africa;
- Enhance the attractiveness of African HE and research institutions for effective development and retention of young African talent,
- Attracting the *best intellectual capital* (including *African Diaspora*);
- Facilitate the acknowledged networking and the mobility of students and academic staff between <u>African academic</u> institutions;
 - Invigorate dynamic and productive partnership with public and private sectors.

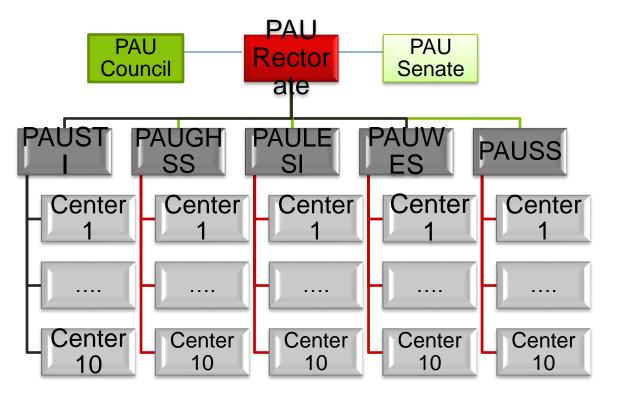


Thematic Areas and Location





PAU Structure



05 Institutes & 50 satellites centers

+01 host country for PAU recorate

→ 55 states members of AU









Pan African University Institute For Water And Energy Sciences (Including Climate Change) – PAUWES –

Presentation of PAUWES



27th October 2017

Host University Selection

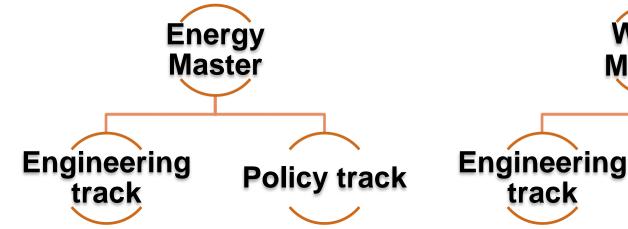




PAUWES Master Programs



Policy track



Bolonia standards, Joint Degree PAU and University of Tlemcen

- 4 Semester, 120 credits
- 30 credits / semester
- 30 credits / thesis



Water

Master

04 cohortes of students



- Academic quality
- Gender
- Regional balance/AU state members representation

- 3rd Cohorte 2016
- 78 students
- Gender (13)
- 25 countries

4th Cohorte 2017

- 70 students
- Gender (26)
- 28 countries

- 2nd Cohorte 2015
- 47 students
- Gender (11)
- 21 countries

1st Cohorte 2014

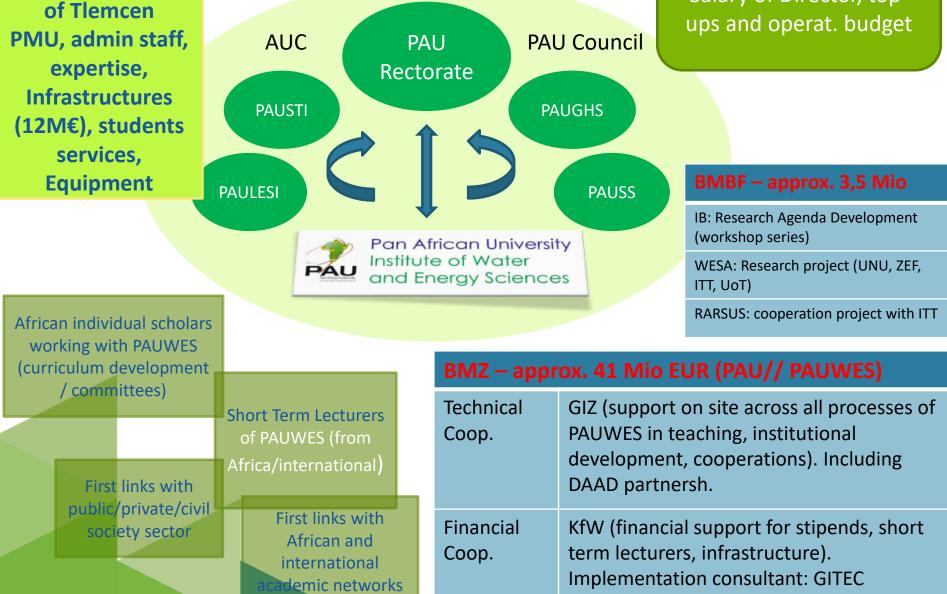
- 26 students
- Gender (12)
- 12 countries

06 PhD WESA project Tripartite project ¹⁰

Overview of Cooperations

MESRS/University

AUC contributions : Salary of Director, topups and operat. budget











Pan African University Institute For Water And Energy Sciences (Including Climate Change) – PAUWES –

Presentation of Research Agenda



27th October 2017

Vision and Focus Research at PAUWES



- PAUWES commits to having a strong application-oriented focus.
- Perform qualitative and quantitative research which is not only demand-driven but also innovative and creative at the same time
- Provide science-based advice to policy makers at a national, regional and Pan-African level;
- Providing scientific knowledge for existing strategies at Pan African and International level
- Think-tank and leader in shaping future strategies
- Capitalisation on the youth dividend on the continent and foster research leading to entrepreneurship or creation of start-ups to generate employability and income in African countries.

Research Agenda in context of African Union Strategies



- African Union Agenda 2063 (African Union Commission 2016)
- AU Science, Technology & Innovation Strategy for Africa 2024 (STISA 2014)
- Africa Water Vision 2025 (UNECA 2025)
- African Strategy on Climate Change (African Union 2014)
- United Nations Sustainable Development Goals (UN-SDGs) of 2030, UNECA (UNECA 2015)
- AU/NEPAD African Action Plan 2010–2015 (NEPAD 2011)
- The Grand Challenge of Water Security in Africa (NASAC 2014)
- African Development Bank Policy for Integrated Water Resources Management (AfDB 2000)

Research Agenda Development Process



19th -21st October 2015

BMBF-PAUWES <u>K</u>ick-off Workshop

for the Development of the PAUWES Research Agenda

Tlemcen, Algeria

Nov 2015 – May 2016

Input for the PAUWES research agenda developed in more concrete terms through virtual interactions within the working groups and involving further experts 10th -11th May 2016

> Research Agenda Consolidation workshop

The second workshop with experts of the kick-off workshop serving as a forum to formulate the experts' input for the research agenda in more detail

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May 2016 – Oct 2017

Input for the PAUWES research agenda developed in more concrete terms through using a virtual work-flow within the working groups and through involving further experts 27th Oct 2017

Presentation and validation of PAUWES research agenda to political stakeholders at the African Union

Ethiopia, Addis Ababa

Research Priorities - Energy



- Energy Resources Assessment
- Technological Development
- Energy Economics and Energy Policy
- Energy Stakeholders and Society
- Energy, Water, Food Security and Climate Nexus



Research Priorities - Water



- Water and food security: long-term food production and sustainable livelihoods
- Water management:
 - Basin water management
 - Urban water management
- Water and environment: water-related hazards and health
- Water economy and governance

Research Priorities – Climate Change



- Climate Impact Modelling, Downscaling and Prediction of Climate Change
- Vulnerability Assessment
- Adaptation Research
- Mitigation Research
- Risk Assessment



Research Priorities – Nexus



- Water-Energy Nexus
- Energy-Climate Nexus
- Water-Climate Nexus



Cooperation Opportunities



Teaching: Short Term Lecturers, Supervision of MsC Thesis, Placement for Internship, PhD Opportunities

Research: Joint research Project, College of research associates , Visiting Scientist and Volunteer Program

Database of funding Programs and Institutions, Database of Researchers and Innovations Hubs in Africa

Strategic Networking: Pan African and Regional Institutions, Center of Excellence in Africa and Abroad, Private Sector / Industries

International Events: PAUWES Symposium 2016, RERIS 2017, Research 2 Practice Forum 2018

PAUWES Online CoP: Communication, Sharing, Jobs, Webinar Series, etc.

Interaction with transnational organization, institutional (policy) and societal players

- PAU Nuturing Guility Exemplifying Excelences
- The African Union Commission for Human Resources Science and Technology
- The African Union Commission for Infrastructure and Energy
- NEPAD and their subsidiary bodies
- African Development Bank and their subsidiary bodies
- Regional integration institutions, economic and political institutions, e.g. ECOWAS, EAC, SADC
- United Nations agencies and programmes related to water, energy and climate
- Development agencies e.g. Deutsche Gesellschaft f
 ür Internationale Zusammenarbeit (GIZ), European Union (EU), Department for International Development (DFID), etc.
- Water Users Associations, Civil Society Actors

We trust to PAUWES

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