



International Water
Management Institute



Towards a Pan-African Water Quality Program PAWaQ

WWQA – World Water
Quality Alliance Workstream
proposal

Innovative water solutions for sustainable development

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Proposal for a new Workstream - Towards a Pan-African Water Quality Program (PAWaQ)

Objective - to support AMCOW in the creation of a strong, self-driven water quality program and movement in Africa to promote collective action, and to ensure protection of water quality as a critical element in enhancing water security in Africa.

AMCOW Strategic Operations Plan 2020-2024

- IWMI assisting AMCOW
- Hopefully adopted by WWQA

PAWaQ

Phase 1: Assessment of WQ monitoring initiatives and capacities in Africa (in progress with IWMI and University College Cork)

Summarize the state of knowledge on water quality degradation in Africa, for selected pollutants and indicators.

Analyze the general capacity of African countries (principally in Governments) in relation to WQ analysis, monitoring and modelling.

Assess quality monitoring in Africa

- Scope in terms of analysis (spatial and temporal)

- impact
- key international and local players involved in WQ

Funding secured from the Water, Land and Ecosystems programme of the CGIAR

PAWaQ

Phase 2: Assessment of initiatives on pollution control and impact mitigation (in progress with IWMI and University College Cork)

- shortlist important pollutants and pollution sources
- main impacts of water quality degradation
- SWOT analysis of the key initiatives for pollution control and impact mitigation (including reuse)

Funding secured from the Water, Land and Ecosystems programme of the CGIAR

PAWaQ

Phase 3: Africa-appropriate innovations for water quality monitoring

- earth observation
- digital water quality monitoring (micro detectors, telemetry etc.)
- citizen science and crowd sourcing of data
- Big data
- Innovative data storage and management

Seeking funding

PAWaQ

New appropriate innovations for management of water quality

- Innovations for control of pollution in Africa
- Innovations for mitigation of risk when using marginal quality water
- Initiatives to address water reuse in agriculture
- Ensuring inclusiveness

Seeking funding

PAWaQ

Phase 5: A framework for the Pan-African Water Quality Programme

Criteria to describe the optimal WQ programme for Africa

Key water quality parameters and indices and how selected

Data collection methods (including traditional sample collection, *in situ* data collection, citizen science, earth observation etc)?

Governance - most effective institutional structure

Possible roles of member states

Appropriate stakeholders

Possible financial strategies

Seeking funding

PAWaQ

Key output - a framework for the Pan African Water Quality Programme PAWaQ.

- This framework will be suitable for AMCOW to use in the expansion of water quality management across the continent.

Contribute to AMCOW African Water Sector and Sanitation Monitoring and Reporting System (WASSMO)

- Indicator 1-2.3 “Proportion of bodies of water with good ambient water quality”
- Assist countries in reporting to GEMSWater
- SDG 6.3.2 etc.

Key outcome - enable establishment of a working programme for monitoring and management of water quality that will be adopted by all member states to benefit the environment and all of its inhabitants



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Thank you

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