



Monday 18th July 2016

Parallel Technical Sessions

Sub Theme 2

1st Technical Session: 16.00 – 17.30hrs

Topic: Managing water for resilient and sustainable development

Lead Convener: International Water Management Institute (IWMI)

Co Conveners: CGIAR Programme on Water, Land and Ecosystems

Session Objectives: To highlight new multi-partner initiatives and research results that demonstrate implementable water management solutions for resilient livelihoods and sustainable development in Africa.

Session Description: This session will comprise of three short presentations on new initiatives and research results that demonstrate the variety of solutions that will be needed to ensure sustainable management of water resources to end poverty and hunger and build resilient communities in Africa. The presentations will be followed by a panel discussion by representatives of international, regional and national organizations with responsibility for planning and investment in water resources and a question and answer session.

Speakers & Panelists: T. Olalekan Williams, IWMI – Sustainable irrigation solutions for food, economic growth and environment in Africa
Yvan Altchenko, IWMI/IRD – Groundwater solutions initiative for policy and practice
Giriraj Amarnath, IWMI – SMART ICT for weather and water information advice to improve resilience in Africa
Moderator: Martin Bwalya, Head Programme Development Division, NEPAD.

Tuesday 19 July 2016

Sub Theme 2

2nd Technical Session: 09.00 – 10.30hrs

Topic: Early Warning Systems for water extremes and Climate Change Information in Africa

Convener: UNESCO-IHP

Co Conveners: Swedish Meteorological and Hydrological Institute (SMHI)

Session Objectives: Highlight ongoing projects that develop data tools and methodologies to address floods and droughts and installation of Early Warning Systems.

Facilitate dialogue between research, operational service providers and the end users' community, e.g. disaster risk managers, decisions makers, sector representatives.

Session Description: (Presentations / Panel Discussion)

The wealth of data from satellites and recent advancements in large scale hydrological modelling and seasonal climate model predictions have enabled the development of state-of-the art monitoring and predictions systems that can help addressing many of the problems inherent to droughts and floods prone regions.

The session will showcase UNESCO-IHP's work on data tools and methodologies including African Drought Early Warning System expansion to Southern Africa and the SMHI's experience of large scale modeling in Africa, with an example from Niger River Basin, in order to support the decision makers with the best available water and climate information.

Speakers & Panellists: Mr. Abou Amani (UNESCO) - African Drought Monitor and G-WADI tools
Mr. Abdou Ali (AGRYHMET), Mr. Abdourahman Houmed-Gaba Maki (ICPAC), Ms Pauline Mutefi (Namibia) – Application Cases
Cristina Alionte Eklund, Sweden, SMHI - Water and Climate Change Information for Africa (WACCA)
Lena Strömbäck, Sweden, SMHI - Hydrological Exploitation Platform (HEP)

Moderator: Abou Amani; Rapporteur: Youssef Filali

Sub Theme 2

3rd Technical Session: 11.00 – 12.30hrs

Topic: Achieving results through basin-level investment planning

Conveners: Cooperation in International Waters in Africa program (CIWA), the World Bank

Co Conveners: African Network of Basin Organizations (ANBO) (TBC)

Session Objectives: Create better understanding on how investment planning processes have been employed to meet multiple objectives – including achieving the SDGs - and how those processes have delivered tangible and intangible benefits for citizens and countries within those basins.

Session Description: An expert panel will explore how development and implementation of basin-wide investment programs in major transboundary river basins around the world can help countries and stakeholders meet their development objectives, namely the sustainable development goals (SDGs). This session will bring in experts from basins where investment planning is in various stages of advancement (MSIOA, Action Plans, Investment Plans, and Mobilizing Resources)

Speakers & Panellists: Expert Panel (3-4 Experts: e.g., NBA, OKACOM, ZAMCOM, NELSAP, and/or MRC): Transboundary Investment Planning Around the World OR Across Africa (TBC depending on expert availability)- Sharing experiences from the Mekong, Zambezi or Okavango, Niger and other basins.
Open/Facilitated discussion: Synthesizing and Capturing Lessons Learned - Feeding investment planning knowledge and experience into the ANBO's Knowledge Management Architecture

Sub Theme 2 **4th Technical Session: 14.00 – 15.30hrs**

Topic: Cooperation Mechanisms for Integrated Water Resources Management in Transboundary River Basins

Convener: World Bank

Co Conveners GWP, AfDB, AUC-AMCOW

Session Objectives: The main objective of the session is to share good practices on IWRM in transboundary river basins for improving water security in Africa.

Session Description: Many experts are predicting a crisis in water resources management, but how to deal with it remains uncertain. The response over the last 5-10 years to addressing the water resources challenges has been IWRM. But in a transboundary river basin, applying IWRM usually requires cooperation between countries. The way this is addressed will depend largely on how the sharing of costs, benefits and impacts among all uses and users across the river basin are managed. Specifically, the session aims at presenting the opportunities for improving cooperation in transboundary river basins covering policy, infrastructure and service development and capacity building. The session will include 4 presentations followed by a discussion and Q&A with the audience.

Speakers & Panellists: Setting the stage: key issues and opportunities for cooperation for IWRM - World Bank/other co-conveners
Lessons from Zambezi river basin: Information sharing as basis for improved coordination - ZAMCOM+ riparian countries representatives
Benefit (and cost) sharing in the Senegal River basin - OMVS+ riparian countries representatives
The Volta River Basin – an evolving institution - VBA

Sub Theme 2 **5th Technical Session: 16.00 – 17.30hrs**

Topic: River basin organizations and benefits of transboundary water cooperation

Convener: UNECE

Co Conveners IUCN, UNESCO, GWP, ANBO (tbc), Green Cross, WWF, World Bank (tbc), GIZ (tbc)

Session Objectives: Review recent developments with regards to transboundary agreements and institutions in Africa
Discuss challenges and lessons learned of river basin organizations
Demonstrate how assessing benefits of transboundary cooperation can support RBOs

Session Description: River basin organizations are crucial for reasonable and equitable use of transboundary waters and play an important role in implementing the SDG on water and in particular target 6.5 on IWRM and transboundary cooperation. The session will start with a limited number of short presentations from African river basin organizations, including examples of basins where the benefits of transboundary cooperation have been identified and assessed or such assessments are ongoing, such as the Okavango basin, basin in the IGAD region or others. This will be followed by a moderated (panel) discussion with interactive involvement of the audience in order to discuss current challenges such as development/ revision/ implementation of transboundary agreements, structures, working modalities and financing of basin organization etc.

Speakers & Panellists: Tbc

Wednesday 20 July 2016

Sub Theme 2 **6th Technical Session: 09.00 – 10.30hrs**

Topic: Climate resilience and the water-energy nexus in East and southern Africa

Convener: Declan Conway, Grantham Research Institute, London School of Economics

Co Conveners: Global Water Partnership (GWP), Climate Resilient Infrastructure Development Facility (CRIDF)

Session Objectives: To highlight recent studies that demonstrates the significance of climate variability and climate change for hydropower and present methods to incorporate climate risks in water-energy planning and management.

Session Description: The session will comprise three short presentations each capturing the main findings from major recent research programmes. This will be followed by two responses by African water experts to highlight linkages with SDG 6 and to prompt a subsequent question and answer session

Presenters / Panel Discussion

World Bank (TBC) - Enhancing the climate resilience of Africa's water and power infrastructure

Prof Declan Conway, London School of Economics - Climate and southern Africa's water-energy nexus

Prof Julien Harou, Manchester University, UK - Sustainability of water and energy infrastructure in the Tana River basin

Prof Eric Odada – University of Nairobi - Climate challenges for SDG6

Prof Japhet Kashaigili – Sokoine University of Agriculture - Climate and environmental flows

Moderators: Declan Conway, Prof Eric Odada

Sub Theme 2 **7th Technical Session: 11.00 – 12.30hrs**

Topic: Project preparation for investments in Water, Climate and Development in Africa

Lead Convener: GWP

Co Conveners: ICA, AMCOW, AUC

Session Objectives: Present project preparation opportunities in Africa and launch a continental mechanism/initiative for supporting countries to leverage investments from public and private sector

Session Description: The session will present case studies on project preparation from the five Africa sub-regions. The case studies will be drawn from projects prepared by countries with support from the infrastructure consortium for Africa, Africa Water Facility and others.

Presenters: Andrew Takawira (ICA/GWP) - Project preparation Facilities for water in Africa; Guy Pergram -WACDEP case studies; Kidane - Project preparation for the adaptation Fund; ICA-NELSAP Investment Projects & AWF

Panel discussion- Strengthening mechanisms for project preparation to leverage investments from public and private sect

Panelists: AMCOW President, AUC-Rhoda Peace Commissioner for Agriculture, AMCOW Executive secretary, Bai Mass Taal, AfDB- Director for water and sanitation-Mohammed Ell Azizi, & ICA- Coordinator

Moderator: Alex Simalabwi

Sub Theme 2 **8th Technical Session: 14.00 – 15.30hrs**

Topic: The key to sustainable growth: mainstreaming climate resilient infrastructure

Convener: Climate and Development Knowledge Network (CDKN)

Co Conveners: Global Water Partnership (GWP), Climate Resilient Infrastructure Development Facility (CRIDF)

Session Objectives: To provide examples of how mainstreaming climate change can be the new business-as-usual in water infrastructure development in Africa.

To encourage dialogue on how financiers, developers and governments can work together to increase the resilience of water infrastructure.

To share lessons learnt on how to adapt to the risks posed by climate change whilst dealing with uncertainty.

Session Description: A facilitated interactive, rapid-fire debate between developers, financiers (Africa Water Facility) and governments (represented by the Government of Mozambique) on how climate resilience can be mainstreamed into water infrastructure. The debate will see audience participation and will be broadcast through social media, where commentary will feed into the debate.

Presenters / Panel Discussion

Government of Mozambique representative - Examples of infrastructure development

African Water Facility Representative - The benefits of mainstreaming resilience

CRIDF representative - Importance of mainstreaming resilience

Sub Theme 2 **9th Technical Session: 16.00 – 17.30hrs**

Topic: Pathways for Sound Groundwater Governance

Convener: FAO

Co Conveners: UNESCO IHP, International Association of Hydrogeologists, World Bank and GEF

Session Objectives: Understanding what would deliver sound governance of groundwater resources and sustain the goods and services they provide and upon which humans and the environment depend

Session Description: The session inaugurates a wide communication and outreach program aimed at disseminating the final products of a GEF-supported initiative aimed at addressing groundwater issues at global, regional and national levels. The products include the findings of a diagnostic on groundwater governance carried out worldwide, a "Shared Vision 2030" that points to much needed improvements in groundwater governance to meet global demands for water and protect the integrity of aquifers and a "Framework for Action to achieve the Vision", designed to raise political awareness of the issue and promote key policy messages to advance governance approaches that can sustain the set of groundwater and aquifer services upon which humankind now depends. The session consists of presentations by the convening partner organizations, followed by a moderated discussion with participants.

Topics: Global diagnostic on groundwater governance; Shared global vision for groundwater governance 2030; Global framework for action to achieve the shared vision

Speakers & Panellists: Tbc

Thursday 21 July 2016

Sub Theme 2

10th Technical Session: 14.00 – 15.30hrs

Topic: Challenges and opportunities in managing and controlling the spread of invasive species in transboundary river basins

Conveners: Southern Africa Development Community (SADC), ECOWAS and Orange Senqu River Basin Commission (ORASECOM)

Co Conveners: International Union for Conservation of Nature; United Nations Environment Programme; Global Water Partnership; Resilience in the Limpopo – RESILIM USAID Southern Africa

Session Objectives: To “provide a platform to share challenges, lessons, discuss, debate and recommend solutions to managing and controlling the spread of invasive species like Prosopis in the dryland ecosystem. The main expected output is a set of recommendations/priority research focus areas to be considered by countries and RBOs on the impacts of invasive species on dryland biodiversity and livelihoods transboundary basins.

Session Description: Mesquite plays a critical role in maintaining rangeland condition and fragile ecosystems in a productive state, whilst on the other hand, dense and widespread populations of mesquite cause environmental degradation, biodiversity loss, lowering of the water table and destruction of infrastructure, as well as reduction of food security – all of which may be exacerbated by climate change. Various initiatives are being implemented within Africa as well as other parts of the world to manage and control the spread of invasive Mesquite. Recognising that the management and control of Mesquite is a transboundary issue, the SADC Secretariat, ECOWAS WRCC and the Orange-Senqu River Basin Commission (ORASECOM) in collaboration with implementing partners IUCN, RESILIM and GWP are convening a session to highlight and discuss a key issue that is affecting transboundary water resources and dryland ecosystems in Africa.

Presentation: An introductory presentation/video highlighting community challenges and experiences related to invasive mesquite in the Orange-Senqu river basin.

Presenters: ECOWAS -Experiences from West Africa
RESILIM - Experiences from the Limpopo River Basin on controlling

Panellists: SADC, ECOWAS, Orange-Senqu River Basin Commission, Government of South Africa, Government of Botswana
Nkanbe Basin – Burkina Faso

Thursday 21 July 2016 11th Technical Session: 16.00 – 17.30hrs

Sub Theme 2

Topic: Managing water for resilient and sustainable development in Tanzania

Conveners: Ministry of Water and Irrigation Tanzania and UDSM (IRA)

Co Conveners: SUA, NMAIST, WWF, IUCN, IMOMO, 2030 WRG, NIC, Nature Conservancy, DFID/GIZ

Session Objectives: To facilitate scientific discussion, knowledge exchange and collaboration among experts and stakeholders and to establish a state-of-the-art of scientific research, methodologies tools, technologies and monitoring of water security in Tanzania.

Session Description: 5 mins: Introduction and Overview of the Session: Director: DWR DOE, 48 mins of presentations (4 X 12 mins); 20 mins of contribution by panellists/speakers; 12 mins for audience participation; 5 mins: Wrap-up.

Presenters / Panellists: New and innovative technologies and tools (smart monitoring technologies, etc.): / SUA (Prof Mahoo)/NMAIST (Dr Komakechi)/ IMOMO
Economics and financing aspects for SDGs: WWF/Nature Conservancy/ 2030 WRG
Capacity building in the sector: SUA (Prof Mahoo), NMAIST (Dr Komakechi)/WDMI/GIZ
Policy measures (Governance understanding): IUCN/VPO

Moderator / Rapporteur: VPO, DoE/Nature Conservancy