REGIONAL PROCESS SESSION DESCRIPTION FORM 2.

10TH WORLD WATER FORUM

Regional Session Code and Title:

RF7 Harnessing open science tools and innovations for Africa’s water security

Regional Session Coordinators (Name, Position, Organization, email, mobile number):

(1) Session Coordinator:

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(2) Co-coordinator: A Member State – (to be proposed by AMCOW)

Regional Session Description including objectives and expected outcomes (500 words maximum):

INTRODUCTION:

Sustainable Integrated Water Resources Management (IWRM) and Disaster Risk Reduction (DRR) are core elements of Water Security, a prerequisite to achieve food security. Information Management Systems and Capacity Development of a critical mass of experts are fundamental in achieving water security.

Access to hydro-climatological data is a crucial issue in Africa. Where data do exist, they are subject to major limitations that undermine their efficient use in the planning and management of water resources, particularly in the current context of stress and vulnerability of these resources. Remote sensing, management information systems, artificial intelligence and Internet of things are some of the tools that can be used to reduce hydrometeorological risks as well as IWRM.
Invisible groundwater resources are an invaluable part of IWRM, whose quantities and quality can benefit from the use of information technology as well as machine learning.

Socially and culturally, water is a central feature of many beliefs, legends and tales, from North to South Africa. Certain traditional societies are repositories of empirical knowledge and visions that deserve to be taken into account for a better understanding of the dynamics of water resources through the ages. The relationship of societies and cultures to water should therefore be revisited, particularly from an historical perspective.

OBJECTIVE:

The session will discuss the following:

2. Managing Sustainable Water resources by leveraging Earth Observation and Diverse Data Sources
3. Data-Driven Water and sanitation Management: From High-Level Engagement to Actionable Insights and
4. Knowledge management and the use of indigenous knowledge systems

EXPECTED OUTCOMES:

- Awareness raising of participants for existing initiatives and processes to harnessing Africa’s Knowledge and Information for better decision making and impact.
- Networking among participants
- Foster collaboration among governments, scientists/academics, water resources professionals, and policy/decision makers, to explore and identify opportunities for synergies towards overcoming challenges and scaling up solutions.
- Propose clear and compelling messages to influence policy decision-making at various levels

This is a 90 minutes session that shall have a keynote speech, panel discussions followed by an interactive session and tangible proposed messages

FORMAT:

- Keynote: Setting the Scene
- Panel discussion followed by Q&A
- Interactive discussion
- Closing and way forward

Detailed Regional Session Plan:

<table>
<thead>
<tr>
<th>ESTIMATED TIMING</th>
<th>ITEM DESCRIPTION / ROLE</th>
<th>SPEAKERS</th>
<th>SPEAKERS STATUS (OK OR TBC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Minutes</td>
<td>Session Chair: Africa Member State</td>
<td>Presenter TBC</td>
<td>TBC</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
<th>Contact Information</th>
<th>Time Available</th>
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</thead>
<tbody>
<tr>
<td>14 min</td>
<td>Panel Member: Using innovative Groundwater Mapping and AI applications in Groundwater Quality</td>
<td>Mr. James Sauramba, <a href="mailto:jamess@sadc-gmi.org">jamess@sadc-gmi.org</a>; Joel Podgorski, <a href="mailto:Joel.Podgorski@eawag.ch">Joel.Podgorski@eawag.ch</a></td>
<td>TBC</td>
<td>TBC</td>
</tr>
<tr>
<td>7 min</td>
<td>Panel member: Managing Sustainable Water resources by leveraging Earth Observation and Diverse Data Sources</td>
<td>Mr. Guleid Artan, <a href="mailto:gartan@icpac.net">gartan@icpac.net</a></td>
<td>TBC</td>
<td>TBC</td>
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<tr>
<td>14 min</td>
<td>Panel Member: Data-Driven Water and sanitation Management: From High-Level Engagement to Actionable Insights</td>
<td>Presenters TBC (one for Water Resources and one for Sanitation)</td>
<td>TBC</td>
<td>TBC</td>
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<tr>
<td>7 min</td>
<td>Panel Member: Knowledge management and the use of indigenous knowledge systems</td>
<td>Ms. Hindou Oumarou Ibrahim</td>
<td>Confirmed</td>
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<tr>
<td></td>
<td>Discussion</td>
<td>All participants</td>
<td></td>
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<tr>
<td>10 min</td>
<td>Closing and highlighting main outcomes and way forward</td>
<td>Mr Alexandros K. Makarigakis, <a href="mailto:a.makarigakis@unesco.org">a.makarigakis@unesco.org</a></td>
<td>Confirmed</td>
<td></td>
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