



## 3<sup>rd</sup> Regional Meeting on Tools for the Sustainable Management of Transboundary Aquifers

Cresta Lodge Hotel  
Gaborone, Botswana  
6-9 March 2018

*Meeting convened in the framework of:*

- *Governance of Groundwater Resources in Transboundary Aquifers (GGRETA Project) – Stampriet Transboundary Aquifer System (STAS) project*
- *The Potential of the Transboundary Ramotswa Aquifer 2 (RAMOTSWA-2) project*
- *Sustainable Groundwater Management in SADC Member States project*

**DRAFT PROGRAMME**

## Background and Objectives of the Meeting

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Following the successful outcomes of the 1<sup>st</sup> and 2<sup>nd</sup> Regional Meetings on Tools for the Sustainable Management of Transboundary Aquifers held in July 2015 and November 2016, this meeting is the third in a row of regional meetings on transboundary aquifers in the Southern Africa region. It will address contemporary issues related to the management of transboundary aquifers in the region, with particular focus on the [Stampriet](#) and [Ramotswa](#) transboundary aquifers, shared between, Botswana, Namibia and South Africa; and Botswana and South Africa, respectively.

### **Day 1 and Day 2 (morning):**

- Presentation of the Stampriet Transboundary Aquifer System (STAS) and Ramotswa Transboundary Aquifer (RAMOTSWA) assessment, rationale, main achievements, and findings.
- Share experiences on steps towards the institutionalization of cooperation over transboundary aquifers.
- Present and discuss the present framework (legal, institutional), practices, experiences, and capacity for GW management in various RBOs or other transboundary water organizations in the SADC region.
- Recommend a strategy for incorporating groundwater management into transboundary water resources management in the SADC region.
- Initiate a process and a learning alliance between a network of partners (institutions, experts, decision-makers, donors, and NGOs) led by SADC-GMI for building and sustaining capacity, and actively working towards transboundary GW management in RBOs in the SADC region.

### **Day 2 afternoon: Parallel Sessions**

- Assess the current state of gender mainstreaming in groundwater governance and in RBOs in the SADC region.
- Technical workshop to discuss recent progress and up-coming activities related to the Ramotswa.

### **Day 3 and 4: Parallel Sessions**

- Technical workshop to discuss recent progress and up-coming activities related to the Stampriet and Ramotswa (Stampriet and Ramotswa participants only).

<b>08:00-08:30</b>	<b>Registration</b>
<b>08:30-10:15</b>	<b>Opening of the meeting</b>
08:30-09:00	<p>Welcome remarks and opening of the meeting by the Governments of Botswana, Namibia, and South Africa:</p> <ul style="list-style-type: none"> <li>• <b>Department of Water Affairs (DWA), Botswana</b> <ul style="list-style-type: none"> <li>○ <i>Mr Pelotshweu Phofuetsile</i></li> </ul> </li> <li>• <b>Department of Water Affairs and Forestry (DWAF), Namibia</b> <ul style="list-style-type: none"> <li>○ <i>Mr Bertram Swartz</i></li> </ul> </li> <li>• <b>Department of Water and Sanitation (DWS), South Africa</b> <ul style="list-style-type: none"> <li>○ <i>Mr Fikile Guma</i></li> </ul> </li> </ul>
09:00-09:30	<p>Welcome remarks by UNESCO-IHP, IWMI and SADC-GMI:</p> <ul style="list-style-type: none"> <li>• <b>UNESCO-IHP</b>, Rationale of the Stampriet Transboundary Aquifer System (STAS) assessment and objectives of the meeting <ul style="list-style-type: none"> <li>○ <i>Mr Tales Carvalho Resende, UNESCO-IHP</i></li> </ul> </li> <li>• <b>IWMI</b>, Rationale of the RAMOTSWA Project <ul style="list-style-type: none"> <li>○ <i>Mr Jonathan Lautze, IWMI</i></li> </ul> </li> <li>• <b>SADC</b>, Rationale of the SADC Groundwater Management Institute <ul style="list-style-type: none"> <li>○ <i>Mr James Sauramba</i></li> </ul> </li> </ul>
09:30-9:40	<p>Welcome remarks by Donors:</p> <ul style="list-style-type: none"> <li>• <b>Swiss Agency for Development and Cooperation</b> <ul style="list-style-type: none"> <li>○ <i>Ms Stéphanie Piers de Raveschoot</i></li> </ul> </li> <li>• <b>USAID</b> <ul style="list-style-type: none"> <li>○ <i>TBC</i></li> </ul> </li> </ul>
9:40-10:15	<p>Welcome remarks by RBOs:</p> <ul style="list-style-type: none"> <li>• <b>BUPUSA</b> <ul style="list-style-type: none"> <li>○ <i>Zvikomborero Manyangadze</i></li> </ul> </li> <li>• <b>CICOS</b> <ul style="list-style-type: none"> <li>○ <i>Georges Gulemvuga</i></li> </ul> </li> <li>• <b>Inkomati</b> <ul style="list-style-type: none"> <li>○ <i>Sindy Mthimkhulu</i></li> </ul> </li> <li>• <b>Lake Tanganyika</b> <ul style="list-style-type: none"> <li>○ <i>Gabriel Hakizimana</i></li> </ul> </li> <li>• <b>LIMCOM</b> <ul style="list-style-type: none"> <li>○ <i>Sergio Siteo</i></li> </ul> </li> <li>• <b>OMVS</b> <ul style="list-style-type: none"> <li>○ <i>Papa Ndiouga Ndiaye</i></li> </ul> </li> <li>• <b>ORASECOM</b> <ul style="list-style-type: none"> <li>○ <i>Rapule Pule</i></li> </ul> </li> <li>• <b>ZAMCOM</b> <ul style="list-style-type: none"> <li>○ <i>Hasting Chibuye</i></li> </ul> </li> </ul> <p>Roundtable for the presentation of participants</p>
<b>10:15-10:30</b>	<b>Tea and coffee break</b>

<b>10:30-11:00</b>	<b>Transboundary waters cooperation and the Sustainable Development Goals</b>
10:15-10:30	<ul style="list-style-type: none"> <li>Measuring transboundary water cooperation through the SDG 6.5.2 indicator: process and outcomes of the first reporting exercise</li> <li>Preliminary results and experiences from the SDG 6.5.2 baseline data collection in the SADC region <ul style="list-style-type: none"> <li>Mr Tales Carvalho Resende, UNESCO-IHP</li> </ul> </li> </ul>
10:30-11:00	<ul style="list-style-type: none"> <li>Discussion</li> </ul>
<b>11:00-12:30</b>	<b>Cooperation over the Stampriet Transboundary Aquifer System (STAS)</b>
11:00-11:20	<ul style="list-style-type: none"> <li>Stampriet Transboundary Aquifer System (STAS) assessment: main findings and achievements <ul style="list-style-type: none"> <li>Prof Piet Kenabatho, University of Botswana, STAS Assessment Report Coordinator</li> </ul> </li> </ul>
11:20-11:40	<ul style="list-style-type: none"> <li>Institutionalizing cooperation over the STAS: nesting the STAS Multi-Country Cooperation Mechanism (MCCM) in ORASECOM <ul style="list-style-type: none"> <li>Mr Bertram Swartz, Ministry of Agriculture, Water and Forestry, Namibia</li> </ul> </li> </ul>
11:40-12:00	<ul style="list-style-type: none"> <li>Sharing the STAS experience in the SADC region <ul style="list-style-type: none"> <li>Mr Ramogale Sekwele, Department of Water and Sanitation, South Africa</li> </ul> </li> </ul>
12:00-12:30	<ul style="list-style-type: none"> <li>Discussion</li> </ul>
<b>12:30-13:45</b>	<b>Lunch</b>
<b>13:45-15:45</b>	<b>Cooperation over the Ramotswa Transboundary Aquifer</b>
13:45-14:10	<ul style="list-style-type: none"> <li>RAMOTSWA 2 Project main findings and achievements <ul style="list-style-type: none"> <li>Mr Sakhile Mndaweni, Department of Water and Sanitation, South Africa</li> </ul> </li> </ul>
14:10-14:35	<ul style="list-style-type: none"> <li>RAMOTSWA 2 MAR and Modelling <ul style="list-style-type: none"> <li>Dr Girma Ebrahim, Hydrogeologist, IWMI</li> </ul> </li> </ul>
14:35-15:00	<ul style="list-style-type: none"> <li>RIMS – RAMOTSWA Information Management System <ul style="list-style-type: none"> <li>Mr Geert-Jan Nijsten, Senior Researcher, IGRAC</li> </ul> </li> </ul>
15:00-15:15	<ul style="list-style-type: none"> <li>RAMOTSWA 2 Joint Strategic Action Plan / Linkages to RBOs <ul style="list-style-type: none"> <li>Prof Piet Kenabatho, Associate Professor, University of Botswana</li> </ul> </li> </ul>
15:15-15:45	<ul style="list-style-type: none"> <li>Discussion</li> </ul>
<b>15:30-15:45</b>	<b>Tea and coffee break</b>
<b>15:45-17:00</b>	<b>Lessons learnt from the Stampriet and Ramotswa experience: implications to the SADC region</b>
15:45-17:00	<ul style="list-style-type: none"> <li>Lessons learnt on the in-depth assessment of the Stampriet and Ramotswa transboundary aquifers</li> <li>Groundwater data management in the SADC region</li> </ul>

	<ul style="list-style-type: none"> <li>• Institutionalizing cooperation over transboundary aquifers in the SADC region: potential replication</li> </ul>
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**DAY 2 • Wednesday 7 March 2018 (morning)**

<b>08:30-10:30</b>	<b>The consideration of groundwater in RBOs (ctd.)</b>
	<ul style="list-style-type: none"> <li>• Presentations of Needs Assessment and Consultation to Support Groundwater Management in African RBOs (from 2013) <ul style="list-style-type: none"> <li>○ <i>Dr Karen Villholth, IWMI</i></li> </ul> </li> <li>• Presentations by RBOs representatives addressing the following issues: <ul style="list-style-type: none"> <li>○ <i>Present governance framework (mandate, organogramme, etc...)</i></li> <li>○ <i>The degree of legal formalization of GW issues (i.e. does the RBO have an explicit mandate to address GW issues?)</i></li> <li>○ <i>On-going activities related to GW in the RBO</i></li> <li>○ <i>Practices, experiences, and capacity for GW management in the RBO</i></li> <li>○ <i>GW data sharing</i></li> <li>○ <i>Main challenges encountered for raising awareness on GW in the RBO</i></li> </ul> </li> <li>• Q&amp;A and Discussion</li> </ul>
<b>10:30-10:45</b>	<b>Tea and coffee break</b>
<b>10:45-12.30</b>	<b>The consideration of groundwater in RBOs (ctd.)</b>
	<ul style="list-style-type: none"> <li>• Group exercise: Identification and assessment of RBO's strengths, weaknesses, opportunities, threats (SWOT) in TBA management</li> <li>• Initialization of a process and learning alliance between a network of partners (institutions, experts, decision-makers, donors, and NGOs) for building and sustaining capacity for transboundary GW management in RBOs in the SADC region.</li> <li>• Agreeing on joint actions and ways forward</li> </ul>
<b>12:30-13:00</b>	<b>Concluding Remarks</b>
	<p>Concluding remarks by UNESCO-IHP, IWMI and SADC-GMI:</p> <ul style="list-style-type: none"> <li>• <b>SADC-GMI</b> <ul style="list-style-type: none"> <li>○ <i>Mr James Sauramba, SADC-GMI</i></li> </ul> </li> <li>• <b>IWMI</b> <ul style="list-style-type: none"> <li>○ <i>Mr Jonathan Lautze, IWMI</i></li> </ul> </li> <li>• <b>UNESCO-IHP</b> <ul style="list-style-type: none"> <li>○ <i>Mr Tales Carvalho Resende, UNESCO-IHP</i></li> </ul> </li> </ul> <p>Concluding remarks by Donors:</p> <ul style="list-style-type: none"> <li>• <b>Swiss Agency for Development and Cooperation</b></li> </ul>

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13:00-14:00	Lunch

**DAY 2 • Wednesday 7 March 2018 (afternoon)**

<b>14:00-17:00</b>	<b>Parallel sessions</b>	
<b>14:00-15:45</b>	<b>Gender mainstreaming in groundwater governance</b>	<b>RAMOTSWA Phase 2 project</b>
	<ul style="list-style-type: none"> <li>• Presentation of gender mainstreaming in groundwater governance: <ul style="list-style-type: none"> <li>○ <i>Ms Michela Miletto, UNESCO-WWAP</i></li> </ul> </li> <li>• Presentation of gender consideration in groundwater-related policies in the SADC region <ul style="list-style-type: none"> <li>○ <i>Ms Stephanie Hawkins, Univ. of Strathclyde</i></li> </ul> </li> <li>• Presentation by RBOs representatives addressing the following issues: <ul style="list-style-type: none"> <li>○ <i>Presentation of gender strategy, plan (if any) and its state of implementation</i></li> <li>○ <i>Main challenges encountered for raising awareness on gender mainstreaming</i></li> </ul> </li> <li>• Q&amp;A and Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• RAMOTSWA 2 Progress and Status (Jonathan Lautze)</li> <li>• Managed Aquifer Recharge Potential (Girma Ebrahim)</li> <li>• Hydrogeological Modelling in the Ramotswa Aquifer (Girma Ebrahim)</li> </ul>
<b>15:45-16:00</b>	<b>Tea and coffee break</b>	
<b>16:00-17:30</b>	<b>Gender mainstreaming in groundwater governance (ctd.)</b>	<b>Ramotswa Advisory Board Meeting</b>
	<ul style="list-style-type: none"> <li>• Panel Presentation on the Gender Survey findings of the GGRETA 2 project: data collection; analysis; interpretation <ul style="list-style-type: none"> <li>○ <i>Michela Miletto, WWAP-UNESCO</i></li> <li>○ <i>Francesca Maria Burchi, WWAP-UNESCO</i></li> <li>○ <i>Nelson Legketho, DWA Botswana</i></li> <li>○ <i>Bothepha Moseithi, University of Botswana</i></li> </ul> </li> <li>• Q &amp; A and Discussion</li> </ul>	

**DAY 3 • Thursday 8 March 2018**

<b>Parallel sessions</b>		
<b>09:00-11:15</b>	<b>Assessment of gender surveys in the STAS</b>	<b>Presentation of Ramotswa Phase 2 project</b>
	<ul style="list-style-type: none"> <li>• Critical analysis of the data collected and processed of household surveys</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Ramotswa Information Management System (Geert-Jan Nijsten)</li> </ul>
<b>11:15-11:30</b>	<b>Tea and coffee break</b>	
<b>11:30-12:45</b>	<b>GGRETA Phase 2 workplan</b>	
	<ul style="list-style-type: none"> <li>• Presentation of revised GGRETA Phase 2 workplan (March 2018 – December 2018)</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Ag-Water Solutions (Manuel Magombeyi)</li> <li>• The Glen Valley Irrigation Project (Mr Bedi)</li> </ul>
<b>12:45-14:00</b>	<b>Lunch</b>	
<b>14:00-15:30</b>	<b>Nesting of the STAS Multi-Country Cooperation Mechanism (MCCM) in ORASECOM</b>	<b>Field Trip to Well Fields and Wastewater Site</b>
	<ul style="list-style-type: none"> <li>• Review of UNESCO and ORASECOM TORs for data migration to the Orange-Senqu Water Information System (WIS)</li> <li>• Assessment of the current capabilities of ORASECOM WIS and national information systems</li> <li>• Development of protocols for collection of data</li> <li>• Maintenance of databases</li> <li>• Training on operation and maintenance of databases</li> </ul>	
<b>15:30-15:45</b>	<b>Tea and coffee break</b>	
<b>15:45-17:30</b>	<b>Nesting of the STAS MCCM in ORASECOM (ctd.)</b>	

**DAY 4 • Friday 9 March 2018**

Parallel sessions		
<b>09:00-11:15</b>	<b>Groundwater modelling for the STAS: challenges</b>	<b>RAMOTSWA Phase 2</b>
	<ul style="list-style-type: none"> <li>• Calibration issues and review of workplan</li> </ul>	<p>Strategic Action Plan (SAP): Overview (Jonathan Lautze) 9:00-9:30</p> <p>SAP: Group Activity (Davies Saruchera) 9:30-10:15</p> <p>REMSAN Presentation (Harry Ylikangas) 10:15-45</p> <p>Understanding gender issues for the governance of the transboundary Ramotswa Aquifer (Stephanie Hawkins) 10:45-11:15</p>
<b>11:15-11:30</b>	<b>Tea and coffee break</b>	
<b>11:30-12:45</b>	<b>Groundwater modelling for the STAS: way forward</b>	<b>Looking Forward</b>
	<ul style="list-style-type: none"> <li>• General discussion and feedback</li> <li>• Main decisions and way forward</li> </ul>	<p>SAP Ownership and Sustainability (Sakhile Mndaweni) 11:30-12:00</p> <p>RIMS Next Steps (RIMS Coordinators) 12:00-12:20</p> <p>Report Back on first advisory committee meeting (Piet Kenabatho) 12:20-12:35</p> <p>Questions and Closing Thoughts 12:35-12:45</p>
<b>12:45-13:00</b>	<b>Closing remarks</b>	
<b>13:00-14:30</b>	<b>Lunch</b>	