

# Annual report Phase III: 2012-2016

## January - December, 2015



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Submitted by the WaterNet Trust



Building capacity for Water Resources Management in Southern Africa

# Annual Report

## Phase III: 2012-2016

January-December, 2015

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### **SADC Subsidiary Status**

Since August 2012 WaterNet is a subsidiary institution of SADC and the following major activities were conducted in 2015; WaterNet contributed to the formulation of the Fourth SADC Regional Strategic Action Plan (2016-2020) through SADC water weeks where Alumni and the Secretariat played a leading role. The WaterNet Secretariat reported to the Water Resources Technical Committee and the SADC Water Minister's meeting. In July 2015, SADC Water ministers met in Harare, Zimbabwe and took the decision of providing scholarships to the WaterNet Masters programme.

### **Financial Sustainability**

In 2015 out of a total budget of EURO 1,599,685, DGIS contribution represented 79% and the rest was shared with other cooperating partners and projects ( DANIDA (5%), Membership inclusive of commissioned trainings (7%), CapNet/UNDP (2%), Challenge Programme (2%), GIZ (1%) and others (6%).

### **Masters Programme 2014- 2015 Intake (28 students)**

Twenty-eight students who started the IWRM Masters Programme at the University of Zimbabwe and the University of Dar Es Salaam the previous year (2014). Of these 24 students were sponsored through WaterNet while four students secured funding from other institutions. 20 students graduated for their Msc in IWRM in 2015.

### **Masters Programme 2015- 2016 Intake (33 students)**

Thirty-three students started the IWRM Masters Programme at the University of Zimbabwe and the University of Dar Es Salaam in February 2015. Of these 28 students were sponsored through WaterNet while five students secured funding from other institutions. All the seven specialisations were offered. No problems were reported during the Specialisations, and all modules were offered as planned.

### **Professional Training Programme**

During 2015 six short professional training courses were convened and 125 participants were trained. A planning meeting was also convened 28-29 November 2015 to elaborate the SADC training plan for the period 2016-2020.

### **17<sup>th</sup> and 18<sup>th</sup> WaterNet Management Board Meeting**

The 17<sup>th</sup> and 18<sup>th</sup> WaterNet Management Board meetings took place respectively in Pretoria, South Africa in May and Pointes aux Piments, Mauritius in October 2015. The major highlights of these two meetings included the establishment of a sustainability committee in The Management Board. The Management Board meeting in October 2015 draw a roadmap for the development of the WaterNet phase IV (2017-2021) strategy. The meeting saw the representation of GWPSA changed from Ms Beukman to Mr Takawira. The 16th WaterNet Annual General Meeting took place during the symposium at Le Meridien Hotel-Pointes aux piments, Mauritius and the current Chairperson, Dr Magole was re-elected as Trustee.

### **16<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium**

The 16<sup>th</sup> WaterNet/ WARFSA/GWP-SA symposium was held at Pointes aux Piments, Mauritius under the Chairmanship of Prof Manta Nowbuth from the University of Mauritius. The Scientific programme for the 16th Symposium had 144 oral session papers, 6 papers for presentation in the Scientific Plenary Session, 7 Special Sessions and 66 posters . The theme

of the symposium was Integrated Water Resources Management and Infrastructural Planning for Water Security in Eastern and Southern Africa. Over 270 participants attended the symposium

## Executive Summary

The summary of achievements and challenges encountered in 2015 based on the yearly workplan and budget (as approved at the 15<sup>th</sup> WaterNet Annual General Meeting, held on 30th October 2014 in Lilongwe, Malawi) are indicated in Table 1.1.

**Table 1.1** Overview of achievements and challenges during 2015

<b>Objective 1: Sustaining the Network through better governance and deeper ownership</b>	
<i>Output 1.1: Carry out the functions of a SADC Subsidiary Institution under the Third Regional Strategic Action Plan on Integrated Water Resources Development and Management (RSAP3)</i>	
<p>To implement Activity 5.2 of RSAP3            Lead Activities in the implementation of the SADC SHCP            With SADC, identify WaterNet's role to support or implement at least three further activities of capacity building            Report to SADC Water Resources Technical Committee and Ministers Responsible for Water on current WaterNet activities            Contribute to the consultations of the SADC RSAP4.</p>	<p>Output achieved to a large extent as WaterNet developed the capacity building programme roadmap for the period 2016-2020 on behalf of SADC. Six training courses were implemented as part of activity 5.2 of the RSAP 3. WaterNet reported to the WRTC and Minister's meetings in July 2015. WaterNet through the Alumni and the Secretariat was involved in the formulation of the Fourth SADC Regional Strategic Action Plan (RSAP IV).</p>
<i>Output 1.2: Promote member ownership of the network</i>	
<p>National focal points established to work along with CWP in all SADC members States            Increased membership in SADC states with few members            Increased member participation in actions            Promote active participation of members in WaterNet activities            Members with staff development needs catered for in MSc, Post-Master and PhD programmes.</p>	<p>Output achieved in 2015            Members and Alumni participation in SADC water weeks            Professional trainings conducted by Members institutions            Education: The PhD programme continues to support staff from UZ, UNZA and UKZN            An intern at the Secretariat was hired under the post Masters facility</p>
<i>Output 1.3: Carry out actions in support of IWRM at continental level, on the basis of southern African perspective and in liaison with sister networks and GWP</i>	
<p>Participation in AgWA and lead East and Southern Africa</p>	<p>Output was achieved as</p>

<p>actions</p> <p>Participation in AMCOW Water, Climate and Development Programme</p> <p>Participation in Regional Capacity Building Programme on Promoting on water law and negotiations in SADC region</p>	<p>WaterNet was involved in March 2015 in CapTEC- A WaterNet framework has been developed in support of this initiative of capacity building spearheaded by CapNet/UNDP.</p> <p>WaterNet is represented under GWP WACDEP programme</p>
<p><i>Output 1.4: Expand WaterNet activities in East Africa</i></p>	
<p>Consultations with SADC, SADC member states, sister UNDP (Cap-Net) networks, GWP-SA, East African Community and GWP-EA on WaterNet's role in East Africa</p>	<p>Jointly with CapNet-affiliated network, Watercap, WaterNet conducted short professional training courses in East Africa. Msc students and research were conducted in Tanzania, Uganda and Kenya.</p> <p>Outreach to the 9th International Conference on Community Based Adaptation to Climate Change in Nairobi, Kenya.</p>
<p><i>Output 1.5: Efficient operating Executive Management responding to network needs</i></p>	
<p>Implementation of Executive Management restructuring as per job evaluation and terms and conditions of service operational Executive Management fully staffed</p> <p>Develop and implement communication strategy to increase role as a broker to support demand and supply within the network5</p>	<p>Output achieved in 2015 as the Secretariat coordinated the full implementation of the annual workplan. The Senior research fellow joined the Secretariat in support of research activities</p> <p>Staff appraisal conducted</p> <p>The new WaterNet website was launched on Africa day 25 May 2015 and it is running and updated regularly with social media links.</p>
<p><i>Output 1.6: Professional financial management</i></p>	
<p>Establish in house financial management system to ensure proper budgeting and control of expenditures</p> <p>All funds received by WaterNet to be managed in house and audited annually</p> <p>Sub-audits of two major recipient members and one minor recipient</p>	<p>Output achieved in 2015</p> <p>The Trust audit for 2014 was conducted and it was unqualified. UDSM and UZ audits were finalized and were unqualified.</p>
<p><i>Output 1.7: Financial sustainability</i></p>	

<p>Contracts to be finalised with GIZ, DFID, Africa Water Facility</p> <p>Proposals and expression of interest to be submitted to potential donors</p> <p>30% Contribution of the annual budget from donors other than DGIS</p> <p>Reduce governance and management costs from core funding by gradually decentralising activities and secure at least two projects that will contribute to staff time and overheads</p>	<p>Disbursements received from Danida, DGIS, other cooperating partners and projects.</p> <p>Four research proposals submitted for funding</p> <p>Expression of interest submitted to ZAMCOM</p> <p>Contacts established with ACBF, WRC, SADC members States and UNESCO regional office for additional financial support</p> <p>Only 20% of the actual 2015 budget was secured from donors other than DGIS</p>
<i>Output 1.8: Thematic working groups established</i>	
<p>Continuation of the six thematic working group committees and implementation of the recommendations and action plans made by the committees (Committees on Professorial Chairs; Curriculum Review and Quality Control; Research; Membership; Finance; Human Resources)</p>	<p>Output achieved through the implementation of actions points from the Committee of the Management Board.</p>
<i>Output 1.9: Monitoring, evaluation and reporting</i>	
<p>Annual progress and financial reporting</p> <p>Carry out programme evaluation</p>	<p>Outputs achieved, annual report prepared and submitted to International Cooperating Partners and project management teams (DGIS, DANIDA, GIZ, ACCFP)</p>
<b>Objective 2: Deliver, sustain and expand the regional Master programme in IWRM</b>	
<i>Output 2.1: Deliver the Master programme at two core host institutions</i>	
<p>Register at least 25 students for the 2015-2016 intake</p>	<p>Output achieved - 33 students for the 2015/2016 started the programme in February 2015</p>
<p>2014-2015 intake</p>	<p>28 students from 2014/2015 intake conducted research and 20 graduated in the course of the year</p>
<i>Output 2.2: Deliver the option modules (specialisations) at seven host institutions</i>	
<p>Option modules delivered at all seven hosts, including University of KwaZulu-Natal</p>	<p>All the seven specialisations were successfully conducted from July to October 2015</p>
<i>Output 2.3: Master students carry out relevant and high quality research, supported by core and specialization institutions</i>	
<p>Students of 2014-2015 intake complete dissertations and at least half draft papers</p>	<p>24 students from 2014/2015 intake conducted research</p>

Masters Students to contribute to the PhD programme in their dissertations	5 Msc students contributed to the WaterNet PhD programme
<i>Output 2.4: Establish third core host institution and develop mechanism for Lusophone/Francophone delivery</i>	
Curriculum Review and Quality Control Committee to identify options and potential hosts to prepare concept papers for Lusophone and Francophone delivery	In March 2015, a workshop for Francophone and Lusophone together with core hosts was convened. A road map has been developed for the establishment of the programme in non-English countries
<i>Output 2.5: Improve embedding of option modules in local Master programmes at all option host institutions</i>	
Support the newly established Masters programme in Malawi Support the IWRM programme at NUST in Namibia through the Staff Exchange Fund and the Backstopping Established working relationships with water centres of excellence (SANWATCE) in the SADC region	Specialisation at UKZN, UWC, PON, UZ and UDSM conducted jointly with local programmes SADC research agenda developed in April 2015 with inputs from SANWATCE.
<i>Output 2.6: On-going quality control</i>	
Curriculum Review and Quality Control Committee assists each host institution in quality control Conduct evaluation on the revised curriculum of the IWRM masters programme	Module evaluation done for modules conducted at Core and specialisations Hosts. The mid-term review for the entire network was finalised in the course of 2015
<i>Output 2.7: On-going curriculum development</i>	
Continuous feedback on regional and national development priorities (SADC and GWP-SA) to target curriculum and case studies. IWRM toolbox to be informed by IWRM Masters programme Continuous feedback from ongoing IWRM research to update Curriculum	Development of the roadmap for IWRM curriculum development for Non-English speaking countries Distance learning curriculum initiated (CapNet virtual campus and UNISA). The IWRM toolbox trainings for Msc students were organized in Zimbabwe and Tanzania for the 2014-2015 intake jointly with GWPSA.
<i>Output 2.8: Deeper links developed with other relevant Masters programmes at SADC universities, as well as with international partners</i>	
Establishment of working relationship with other networks involved in Capacity development in the SADC region and	WaterNet actively contributed the

<p>beyond  Concept papers prepared on mutual recognition and credit transfer with interested SADC universities (WaterNet members), UNESCO-IHE and ITC.  Further south-south links developed, with the aim of student and staff exchange with other countries in Africa and Brazil</p>	<p>development of the 2015-2025 strategy of UNESCO-IHE in April 2015.  WaterNet was also active with CapNet/UNDP in March 2015 under Captec initiatives  WaterNet contributed to the formulation and validation of the RSAP IV  Working relationship established with Universities in Mauritius, Madagascar and Seychelles  The SADC research agenda was jointly developed with NEPAD centres of excellence and GWPSA</p>
<p><i>Output 2.9: Implement web-based platform for Master lecture materials and develop distance and online learning modules (core and options)</i></p>	
<p>Design web-based platform for Master lecture materials  Concept papers prepared on online learning for modules and role of National focal points</p>	<p>The WaterNet concept note for online training is now available. The piloting of the course modalities has now been defined and course will be conducted in 2016 on the CapNet virtual campus and other platforms.</p>
<p><i>Output 2.10: Increased and more representative admissions</i></p>	
<p>Register at least 5 students sponsored by SADC member states and employers</p>	<p>5 self-sponsored students are part of the 2015-2016 intake that started in February 2015. 11 additional students were part of the modules specialisation conducted at UKZN</p>
<p><i>Output 2.11: Language course run (pre-masters)</i></p>	
<p>Run English for Water Managers course and Research Methods course</p>	<p>The research methods course was done but Non English students took personalised language course</p>
<p><b>Objective 3: Deliver relevant and responsive professional training</b></p>	
<p><i>Output 3.1: Systematic input and feedback from SADC and GWP-SA</i></p>	
<p>Implement programmes on sustainable water infrastructure development, water climate &amp; development, river basin organization capacity, water law and negotiations, economic accounting for water , Disaster and risk management, Groundwater management as well as IWRM and ecosystem</p>	<p>Activities were conducted during the SADC water weeks were journalists and youth from SADC members States were trained and</p>

services	made aware of various aspects of IWRM under the coordination of GWPSA, WaterNet member institutions are part of the WACDEP project led by GWPSA as well.
<i>Output 3.2: Increased partnerships for design and delivery of training courses</i>	
Work with GMISA in the development of a training on groundwater management and IWRM in the SADC region Implement partnerships with GWP-SA, CB Hydronet, NBCBN, Africa Groundwater Network. Complete publication of two training manuals on Economic accounting for Water use in SADC	Trainings were done with GWPSA. WMO, IWSD, WaterCap, Eduardo Mondlane University, Aquashare, CapNet, UZ and UDSM
<i>Output 3.3: Deliver at least ten relevant, responsive courses per year, and investigate options for distance and online learning</i>	
Deliver at least 6 relevant, responsive courses, including water law and negotiations , river basin organization capacity on benefits sharing, economic accounting for water , water integrity and accountability , IWRM and ecosystem services, Remote sensing applications to water resources management Deliver DGIS Professional Training programme At least twenty self-sponsored participants over the year To pilot in the SADC region our first distance and online training	6 training courses with 125 participants were conducted. A planning meeting for the SADC SHCP under RSAP IV (2016-2020) was developed. Online courses have been piloted under the CapNet Virtual campus and WaterNet will run its first course in 2016
<i>Output 3.4: Increase delivery in Portuguese and French</i>	
Conduct trainings in French and Portuguese Implement language conversion for at least two existing courses, in partnership with SADC, UNDP (Cap-Net) and Francophone and Lusophone WaterNet members	One course conducted in Mozambique on strategic planning in IWRM (12-16 Oct 2015)
<i>Output 3.5: Build the capacity of young water professionals</i>	
Implement at least two young water professionals events, the WaterNet symposium included	Training of youth took place along the SADC water week. Youth and Alumni were part of course participants. Alumni held their AGM at the symposium
<i>Output 3.6: Host institutions to offer Master modules as short courses</i>	
At least four modules are attended by short course participants	Output achieved through the IWRM toolbox training conducted by the core host institutions in Zimbabwe and Tanzania.
<i>Output 3.7: Investigate possibilities for professional certification</i>	
Concept paper on professional certification	Activities conducted with CapNet to explore the possibility of certification for face to face and online

	trainings
<i>Output 3.8: Implement 2 catchment partnerships per year</i>	
Tailor-made capacity building takes place in partnership with 5 river basin organisations, GWP-SA and Cap-Net	Promoting the Application of Environmental Flows in the Management of Transboundary River Basins in Southern Africa was conducted for ORASECOM, SAVE and PUNGWE river basin organisations
<i>Output 3.9: Develop the water utilities partnership with UNDP (Cap-Net) and implement 1 partnership per year</i>	
Develop the water utilities partnership concept with UNDP (Cap-Net) and commence one partnership , Budget to be secured	CapNet experienced a budget cut that could not allow any activity to be conducted under this output
<b>Objective 4: Carry out IWRM research for development to achieve impact and uptake and expand IWRM research in the region</b>	
<i>Output 4.1: WaterNet, WARFSA and GWPSA to lead regional research agenda, with an emphasis on uptake, through targeted stakeholder engagement processes in the region</i>	
Development of the research agenda for the SADC region Establishment of working relationship with WRCs in the SADC region	The SADC water research agenda was developed and inserted in the formulation of the RSAP IV.
<i>Output 4.2: Implement collaborative research projects that are relevant, coordinated, and integrated into network activities and linked to uptake of results</i>	
Implement current research projects Intensify collaboration with WARFSA Produce at least one research briefs per project	The Danida project on transboundary water resources management in the Zambezi is continuing 5 students from Zambia, Malawi and Zimbabwe concluded their dissertations and studies. Research results were presented during the 16th WaterNet symposium-Oct 2015
<i>Output 4.3: Seek funding for new research activities and establish new collaborative research projects</i>	
Submit at least two collaborative research proposals	Six collaborative research proposals were submitted during this year. Two have been successful
<i>Output 4.4: : Capacity building in research through mentorship, training and the PhD programme</i>	
Running of the PhD programme and Development of new PhD projects Development of a mentorship programme for the YWP	4 PhD students continued their work (3 Danida, 1 CPWF) PhD students are involved

	in the supervision of Msc students Mentorship scoping initiated in the Alumni Tracer survey
<i>Output 4.5: Establish Post-Masters facility</i>	
Engage new graduate on existing research projects	Intern on communication was hired under Post Masters facility
<i>Output 4.6: Establish WaterNet PhD programme, under basket funding and in liaison with international partners</i>	
Sustaining the on-going PhD programme by securing additional resources beyond the current group.	PhD provisions have been inserted in the submitted proposals
<i>Output 4.7: Facilitate the establishment, through SADC, of a formalised regional research platform, linked to the regional research agenda</i>	
Strengthen the newly established WARFSA Joint development of the Research agenda for the SADC region	The developed research agenda provides such mechanism. More collaboration with WARFSA is envisaged under RSAP IV (2016-2020)
<b>Objective 5: Promoting the understanding and implementation of IWRM at regional, national and local levels</b>	
<i>Output 5.1: Outreach and advocacy through liaison with GWP-SA, AgWA and other partners.</i>	
Participate in outreach activities organized by AMCOW,SADC,GWP-SA, and facilitate the advocacy of new scientific results and new IWRM tools	WaterNet was present and actively involved in the SADC water weeks, Dialogue, WRTC and Ministers meetings WaterNet was participated at the International Conference on Community Based Adaptation to Climate Change in Nairobi, Kenya and The World water week in Stockholm.
<i>Output 5.2: Online outreach</i>	
Finalization of the WaterNet communication strategy Development of the new Waternet website with social media inclusion Website online libraries of Symposium proceedings, training materials and research outputs uploaded	The new WaterNet website is up and running and updated regularly. Social media links are also available (Facebook, twitter)
<i>Output 5.3: Annual WaterNet/WARFSA/GWP-SA Symposia</i>	
Hold the 16th Symposium Publish a special issue of Physics and Chemistry of the Earth from proceedings of the 15th Symposium	18th WaterNet symposium expression of interest requested from the membership

	<p>17th WaterNet symposium scheduled for Botswana in 2016</p> <p>16th WaterNet symposium took place as scheduled in Mauritius. Abstracts were submitted</p> <p>Papers for the 15<sup>th</sup> symposium were published</p>
<p><i>Output 5.4: Active WaterNet Alumni Association and Young Water Professional Chapters</i></p>	
<p>Establishment of social reporters with the WaterNet Alumni Survey of WaterNet Alumni impact over the years</p> <p>Alumni to play an increasing role in the professional and educational activities of the network, as well as in income generation. outreach activities in home countries for funds raising for the masters programme</p>	<p>Alumni were involved in the SADC water weeks. Alumni Tracer Survey took place and the drfat report was made available in December 2015.</p>

## 1 Introduction

### 1.1 Basic Data

Country:	Southern Africa Development Community (SADC)
Project name:	WaterNet Strategy Phase III, 2012-2016: Achieving sustainability by increasing impact
DGIS activity number:	23515
Executing organisation:	WaterNet Trust
Secretariat Host Institute:	University of Zimbabwe, Harare, Zimbabwe
Project period (DGIS):	1 Jan 2012 - 31 Dec 2016
Progress Report No.:	2015 Annual report
Reporting period:	1 January to 31 December 2015

## 2 Context

This document summarises the 2015 WaterNet activities under the current Phase III (2012-2016). The report covers the period 1 January to 31 December 2015, with financial support from DGIS, other International Cooperating Partners and WaterNet members.

WaterNet, a network of tertiary education and research institutions in Southern Africa, was established in year 2000. By the end of December 2015, WaterNet membership consisted of 70 member institutions, two associate members and seven supporting members.

### 2.1 Programme Objectives

The vision of WaterNet is a future in which the SADC region has the institutional and human capacity to educate its own water managers, capable to contribute to the equitable sharing and sustainable utilisation of water resources for poverty alleviation, economic development (livelihood security) and environmental security.

The mission of WaterNet (long-term development objective) is to enhance institutional and human capacity in Southern Africa in the field of Integrated Water Resources Management (IWRM) through training, education, and research by harnessing the complementary strengths of institutions in the region. The enhanced capacity should enable the peoples of Southern Africa to manage their water resources in a more efficient, equitable and sustainable manner.

The immediate objectives of WaterNet are fivefold:

1. To sustain the Network through better governance and deeper ownership
2. To deliver, sustain and expand the regional Master programme in IWRM
3. To deliver relevant and responsive professional training
4. To carry out IWRM research for development to achieve impact and uptake and expand IWRM research in the region
5. Promoting the understanding and implementation of IWRM at regional, national and local levels

The immediate objectives are interlinked as they depend on each other and also benefit each other.

### 3 Programme Targets

#### 3.1 Planned Activities January to December 2015

The following activities were planned for 2015. Below is the workplan and budget for year 2015 (as approved at the 15<sup>th</sup> WaterNet Annual General Meeting, held in Lilongwe, Malawi on 30<sup>th</sup> October 2014).

**Table 3.1** Work Plan January to December 2015

<b>WaterNet Annual Workplan and Budget 2015</b> As approved by the Annual General Meeting, 30 <sup>th</sup> October 2014		
Objectives and Outputs	Activities	Collaborating Partners & Contributing Projects
<b>Objective 1: Sustaining the Network through better governance and deeper ownership</b>		
Output 1.1: Carry out the functions of a SADC Subsidiary Institution under the Third Regional Strategic Action Plan on Integrated Water Resources Development and Management (RSAP3)	To implement Activity 5.2 of RSAP3 Lead Activities in the implementation of the SADC SHCP With SADC, identify WaterNet’s role to support or implement at least three further activities of capacity building Report to SADC Water Resources Technical Committee and Ministers Responsible for Water on current WaterNet activities Contribute to the consultations of the SADC RSAP4.	SADC to assist in mobilising funds DGIS, GIZ, ZAMCOM, ORASECOM Members, Secretariat
Output 1.2: Promote member ownership of the network	National focal points established to work along with CWP in all SADC members States Increased membership in SADC states with few members Increased member participation in actions Promote active participation of members in WaterNet activities Members with staff development needs catered for in MSc, Post-Master and PhD programmes.	GWPSA, YWP, WaterNet Alumni additional Budget to be secured in 2015 to have the full activities conducted

<b>Objectives and Outputs</b>	<b>Activities</b>	<b>Collaborating Partners &amp; Contributing Projects</b>
Output 1.3: Carry out actions in support of IWRM at continental level, on the basis of southern African perspective and in liaison with sister networks and GWP	Participation in AgWA and lead East and Southern Africa actions Participation in AMCOW Water, Climate and Development Programme Participation in Regional Capacity Building Programme on Promoting on water law and negotiations in SADC region	AgWA, Africa Water Facility, Sida (Cap-Net/UNDP), DGIS, AMCOW, GWP, GIZ, compact negotiations, Nile-IWRM, NBCBN, CBHydroNet
Output 1.4: Expand WaterNet activities in east Africa	Consultations with SADC, SADC member states, sister UNDP (Cap-Net) networks, GWP-SA, East African Community and GWP-EA on WaterNet's role in East Africa	Members, SADC member states, DGIS, UNDP (Cap-Net), WaterCap, NBCBN, Nile-IWRM
Output 1.5: Efficient operating Executive Management responding to network needs	Implementation of Executive Management restructuring as per job evaluation and terms and conditions of service operational Executive Management fully staffed Develop and implement communication strategy to increase role as a broker to support demand and supply within the network	DGIS, UNESCO-IHE, GWPSA, SADC Water division, members
Output 1.6: Professional financial management	Running in house financial management system to ensure proper budgeting and control of expenditures All funds received by WaterNet to be managed in house and audited annually Sub-audits of two major recipient members and one minor recipient	DGIS, members
Output 1.7: Financial sustainability	Contracts to be finalised GIZ, DFID, CapNet-UNDP, ZAMCOM and Africa Water Facility Proposals and expression of interest to be submitted to potential donors 30% Contribution of the annual from donors other than DGIS Reduce governance and management costs from core funding by gradually by decentralising activities and secure at least two projects that will provide staff time and overhead	DGIS SADC to assist in mobilising funds , Member States GWP-SA, CapNet-UNDP, CGIAR, DFID, ZAMCOM, GIZ, Danida

<b>Objectives and Outputs</b>	<b>Activities</b>	<b>Collaborating Partners &amp; Contributing Projects</b>
Output 1.8: Thematic working groups established	Continuation of the five thematic working group committees and implementation of the recommendations and action plans made by the committees (Committees on Curriculum Review and Quality Control; Research; Membership; Finance and Human Resources)	Members, DGIS, Research and training Projects
Output 1.9: Monitoring, evaluation and reporting	Annual progress and financial reporting Implementation of the findings of the Mid-term programme review	All- DGIS, Danida, CapNet-UNDP, GIZ, GWPSA, members.
<b>Objective 2: Deliver, sustain and expand the regional Master programme in IWRM</b>		
Output 2.1: Deliver the Master programme at two core host institutions	Register at least 25 students for the 2015-2016 intake	DGIS, SADC member states, Danida
Output 2.2: Deliver the option modules (specialisations) at seven host institutions	To sustain the delivery of Option modules in specialisation hosts Explore options of reducing costs in running the IWRM masters Programme	As per 2.1 and host universities
Output 2.3: Master students carry out relevant and high quality research, supported by core and specialization institutions	Students of 2014-2015 intake complete dissertations and at least half draft papers Masters Students to contribute to the PhD programme in their dissertations	As per 2.1 and host universities
Output 2.4: Establish third core host institution and develop mechanism for Lusophone/Francophone delivery	Curriculum Review and Quality Control Committee to identify options and potential hosts to prepare concept papers for Lusophone and Francophone delivery	SADC member states, DGIS, Francophone and Lusophone Institutions from the WaterNet membership
Output 2.5: Improve embedding of option modules in local Master programmes at all option host institutions	Support the newly established Masters programme in Malawi Support the IWRM programme at NUST in Namibia through the Staff Exchange Fund and the Backstopping Established working relationships with water centres of excellence in the SADC region	SADC member states, DGIS, core and specialization institutions for the IWRM Masters Programme, SANWATCE

<b>Objectives and Outputs</b>	<b>Activities</b>	<b>Collaborating Partners &amp; Contributing Projects</b>
Output 2.6: On-going quality control	Curriculum Review and Quality Control Committee assists each host institution in quality control Conduct evaluation on the revised curriculum of the IWRM masters programme	SADC member states, DGIS, Core and specialization institutions
Output 2.7: On-going curriculum development	Continuous feedback on regional and national development priorities (SADC and GWP-SA) to target curriculum and case studies. IWRM toolbox to be informed by IWRM Masters programme Continuous feedback from ongoing IWRM research to update Curriculum	Core and specialization institutions, Coordinators, Members, CapNet, UNESCO-IHE
Output 2.8: Deeper links developed with other relevant Masters programmes at SADC universities, as well as with international partners	Establishment of working relationship with other networks involved in Capacity development in the SADC region and beyond Concept papers prepared on mutual recognition and credit transfer with interested SADC universities (WaterNet members), UNESCO-IHE and ITC. Further south-south links developed, with the aim of student and staff exchange with other countries in Africa and Brazil	SADC member states, WaterNet Members, GMISA, AAS, DGIS, UNDP (Cap-Net), NEPAD centres of excellence
Output 2.9: Implement web-based platform for Master lecture materials and develop distance and online learning modules (core and options)	Design web-based platform for Master lecture materials Concept papers prepared on online learning for modules and role of National focal points	WaterNet Members, DGIS, UNDP (Cap-Net), UNESCO-IHE, UNISA
Output 2.10: Increased and more representative admissions	Register at least 5 students sponsored by SADC member states and employers	SADC member states, DGIS, NGOs, private sector
Output 2.11: Language course run (pre-masters)	Run English for Water Managers course	DGIS, SADC member states, WaterNet members (Africa University)
<b>Objective 3: Deliver relevant and responsive professional training</b>		
Output 3.1: Systematic input and feedback	Implement programmes on sustainable water infrastructure	SADC, GIZ, GWP-SA, DGIS, IUCN,

Objectives and Outputs	Activities	Collaborating Partners & Contributing Projects
from SADC and GWP-SA	development, water climate & development, river basin organization capacity, water law and negotiations, economic accounting for water , Disaster and risk management, Groundwater management as well as IWRM and ecosystem services	SADC/EAC LWI, SADC/EAC SWSP, Sida Cap-Net/UNDP, Africa Water Facility
Output 3.2: Increased partnerships for design and delivery of training courses	Work with GMISA in the development of a training on groundwater management and IWRM in the SADC region Implement partnerships with GWP-SA, CB Hydronet, NBCBN, Africa Groundwater Network. Complete publication of two training manuals on Economic accounting for Water use in SADC	Cap-Net/UNDP, GWP-SA, DGIS, GMISA
Output 3.3: Deliver at least ten relevant, responsive courses per year, and investigate options for distance and online learning	Deliver at least 6 relevant, responsive courses, including water law and negotiations , river basin organization capacity on benefits sharing, economic accounting for water , water integrity and accountability , IWRM and ecosystem services, Remote sensing applications to water resources management Deliver DGIS Professional Training programme At least twenty self-sponsored participants over the year To pilot in the SADC region our first distance and online training	SADC, CapNet-UNDP, GIZ, TIGER, Africa Water Facility, DGIS, DFID, SADC member states, RBOS, UNISA, UNESCO-IHE
Output 3.4: Increase delivery in Portuguese and French	Conduct trainings in French and Portuguese Implement language conversion for at least two existing courses, in partnership with SADC, UNDP (Cap-Net) and Francophone and Lusophone WaterNet members	CapNet-UNDP , DGIS, SADC
Output 3.5: Build the capacity of young water professionals	Establish a mentorship programme for young water professionals Implement at least two young water professionals events, the WaterNet symposium included	DGIS, SADC member states, WISA, WaterNet Alumni, GWPSA
Output 3.6: Host institutions to offer Master	At least four modules are attended by short course participants	SADC member states, private

<b>Objectives and Outputs</b>	<b>Activities</b>	<b>Collaborating Partners &amp; Contributing Projects</b>
modules as short courses		sector, DGIS
Output 3.7: Investigate possibilities for professional certification	Concept paper on professional certification	Members, WISA, DGIS, IWRM hosts institutions
Output 3.8: Implement 2 catchment partnerships per year	Tailor-made capacity building takes place in partnership with 5 river basin organisations, GWP-SA and Cap-Net	ZAMCOM, ORASECOM, LIMCOM, Pungwe, CICOS and other RBOs
Output 3.9: Develop the water utilities partnership with UNDP (Cap-Net) and implement 1 partnership per year	Develop the water utilities partnership concept with UNDP (Cap-Net) and commence one partnership	SADC member states, DGIS, Water utilities, UNDP (Cap-Net), DBSA
<b>Objective 4: Carry out IWRM research for development to achieve impact and uptake and expand IWRM research in the region</b>		
1. Output 4.1: WaterNet, WARFSA and GWPSA to lead regional research agenda, with an emphasis on uptake, through targeted stakeholder engagement processes in the region	Development of the research agenda for the SADC region Establishment of working relationship with WRCs in the SADC region	DGIS, GWPSA, WARFSA (SANWATCE) members, all research projects, , host universities
2. Output 4.2: Implement collaborative research projects that are relevant, coordinated, and integrated into network activities and linked to uptake of results	Implement current research projects Intensify collaboration with WARFSA Produce at least one research briefs per project	Danida, SANWATCE, DFID,
3. Output 4.3: Seek funding for new research activities and establish new collaborative research projects	Submit at least two collaborative research proposals	AgWA, Africa Water Facility, Sida, DFID, DGIS, Ausaid, Private Sector, WRC
Output 4.4: Capacity building in research through mentorship, training and the PhD programme	Running of the PhD programme and Development of new PhD projects Development of a mentorship programme for the YWP	Danida, Members, core and specialization institutions for the IWRM Masters Programme

<b>Objectives and Outputs</b>	<b>Activities</b>	<b>Collaborating Partners &amp; Contributing Projects</b>
Output 4.5: Establish Post-Masters facility	Engage new graduate on existing research projects	WaterNet Alumni, DGIS, core and specialization institutions for the IWRM Masters Programme
Output 4.6: Establish WaterNet PhD programme, under basket funding and in liaison with international partners	Sustaining the on-going PhD programme by securing additional resources beyond the current group.	DANIDA, members, ICPs, RBOs core and specialization institutions for the IWRM Masters Programme
Output 4.7: Facilitate the establishment, through SADC, of a formalised regional research platform, linked to the regional research agenda	Strengthen the newly established WARFSA Joint development of the Research agenda for the SADC region	SADC to assist in mobilising funds, DGIS, NEPAD- SANWATCE
<b>Objective 5: Promoting the understanding and implementation of IWRM at regional, national and local levels</b>		
Output 5.1: Outreach and advocacy through liaison with GWP-SA, AgWA and other partners	Participate in outreach activities organized by AMCOW, SADC, GWP-SA, and facilitate the advocacy of new scientific results and new IWRM tools	SADC, AMCOW, GWP-SA, Cap-Net/UNDP, members, DGIS
Output 5.2: Online outreach	Finalization of the WaterNet communication strategy Development of the new Waternet website with social media inclusion Website online libraries of Symposium proceedings, training materials and research outputs upgraded	DGIS, UNESCO-IHE, GIZ, members, Cap-Net/UNDP, consultants, WaterNet Alumni
Output 5.3: Annual WaterNet/WARFSA/GWP-SA Symposia	Hold the 16 <sup>th</sup> Symposium Publish a special issue of <i>Physics and Chemistry of the Earth</i> from proceedings of the 15 <sup>th</sup> Symposium	DGIS, SADC member states, members, Danida, UPaRF, AgWA, Africa Water Facility, DFID, WaterNet Alumni
Output 5.4: Active WaterNet Alumni Association and Young Water Professional Chapters	Establishment of social reporters with the WaterNet Alumni Survey of WaterNet Alumni impact over the years Alumni to play an increasing role in the professional and	DGIS, members, CapNet/UNDP WISA, WaterNet Alumni

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**Objectives and Outputs****Activities****Collaborating Partners &  
Contributing Projects**

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educational activities of the network, as well as in income generation. outreach activities in home countries for funds raising for the masters programme

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## 2015 Proposed Budget (In Euro)

Fund	Workplan Output	2013 Audited Expenditure	2014 Projected expenditure to year end	2015 Required budget	Total Secured	DGIS Approved Budget	Additional Funds	Revised Proposed DGIS Budget	WN members	Danida	GIZ	CapNet	Shortfall 2014
Governance	1., 1.1, 1.5-7 and all others	130,944	105,809	153,394	153,394	110,000	20,000	130,000	20,000	3,394			-
Management	1.6, 1.7, 1.9, 5.2 and all others	285,646	268,101	270,000	258,007	200,000		200,000	33,640	7,367	12,000	5,000	(11,993)
Scientific Backstopping	2.1, 2.8, 2.9, 4.5	9,661	42,000	45,000	45,000	45,000		45,000					-
National Focal	1.2,												-
Symposium	3.5, 5.1, 5.3	71,286	74,308	90,000	90,000	75,000	15,000	90,000					-
Publications	5.3,	-	3,500	4,000	4,000	4,000		4,000					-
MSc	2.1-4	26,573	482,875	610,000	610,000	394,702	215,298	610,000					-
<i>MSc Fellowship</i>	2.1,												-
<i>MSc Dissertation</i>	2.3,												-
<i>Staff Exchange</i>	2.1, 4.5,												-
Curriculum Development	2.5, 2.7, 2.8	-	17,679	15,000	15,000	15,000		15,000					-
Professorial Chairs	1.8, 2.4-6, 4.1, 4.2,	31,060	-										-
Post Doctoral	1.8, 2.4-6, 4.1, 4.2,	-	-	206,642	206,642	90,000	116,642	206,642					-
Catchment Partnerships	3.8,	3,634											-
Utility Partnerships	3.9,												-
Professional Training	1.3, 1.4, 3.1-9, 4.5, 2.10, 2.11	159,847	101,812	225,000	203,000	25,000	25,000	50,000			108,000	45,000	(22,000)
Language	2.10, 2.11,												-
Post-Master Facility	4.6,	-	1,500	4,798	4,798	4,798		4,798					-
Alumni Association	5.4,	4,729	10,640	10,640	10,640	7,000		7,000	3,640				-
PhD	4.5, 4.7	-	36,600	49,200	49,200					49,200			-
Research Activities	4.3, 4.4,	212,634	-										-
Research Workshops	5.1,	3,977											-
Research Dissemination	4.8,	40,399											-
Program Review		-	30,000										-
Contingencies (unforeseen)		69,766	19,751	49,998	49,998	35,000	13,178	48,178	1,820				-
Prior Year Commitments		526,089	139,465										-
Phase IIb deficit		96,675											-
Staff time on other projects		72,997											-
<b>Total</b>		<b>1,745,917</b>	<b>1,334,040</b>	<b>1,733,672</b>	<b>1,699,679</b>	<b>1,005,500</b>	<b>405,118</b>	<b>1,410,618</b>	<b>59,100</b>	<b>59,961</b>	<b>120,000</b>	<b>50,000</b>	<b>(33,993)</b>

### Notes

- Budget has been linked to the work plan steps to trace source of funding for each output.
- "2013 Audited Expenditure" refers to the expenditure incurred by the Network in 2013 as per our audited financial report for the year ended 31 December 2013.
- "2014 Projected expenditure to year end" represents the total estimated expenditure for the year 2014 based on level of activities and contractual obligations.
- "2015 Required Budget" represents the total budget required to fully execute the 2015 workplan.
- "Total Secured" refers to the contractually secured budget with the various donors.
- The DGIS budget of €1,005,500 was approved when the entire Phase III strategy was drafted however there are unspent funds from prior years that have been proposed to supplement this budget. €405,118 will be rolled over to 2015 to financially support implementation of the workplan.
- The MSc budget includes all costs associated with running the fellowship programme which includes Fees, Staff Exchange and MSc Dissertation.

## 4 Achievements

The year 2015 was a continuation of the normalisation of activities at WaterNet and the workplan was implemented to a large extent as elaborated in the sections below. Financial contributions for the year 2015 came from the following collaborating partners DGIS representing the Royal Netherlands Government contribution, DANIDA representing contribution from The Danish Government, The challenge programme project representing the Consultative Group for International Agriculture Research, The African Climate Change Fellowship Programme (ACCFP), The International Union for Conservation of Nature (IUCN) and the WaterNet membership. The Secretariat was fully operational and hosted for six months a senior research fellow.

### 4.1 Sustaining the Network through better governance and deeper ownership

#### 4.1.1 *Carry out the functions of a SADC Subsidiary Institution under the Third Regional Strategic Action Plan on Integrated Water Resources Development and Management (RSAP3)*

In 2015 WaterNet as a SADC subsidiary institution contributed to the following regional activities: the SADC water weeks in DR Congo, Madagascar, Seychelles and Zimbabwe. WaterNet led the capacity building component during the think tank exercise that was organised by the Water Strategic Reference Group (WSRG) and during the consultations and formulation of the fourth SADC Regional Strategic Action Plan (RSAP IV 2016-2020).

WaterNet reported to the WRTC and Minister's meeting in Harare in July 2015 on success and challenges that were encountered in the implementation of activities. Ministers took the decision to provide at least two fellowships for their Nationals to attend the WaterNet Masters programme in IWRM

WaterNet carried out in 2015 the capacity building programme on Environmental flows for ORASECOM, SAVE and PUNGWE river basin organisations in collaboration with SADC Secretariat. The Transboundary water resources research in the Zambezi funded by Danida in support of ZAMCOM continued to be implemented in 2015. All the 3 PhDs are making progress and 5Msc students completed their studies in 2015 .

#### 4.1.2 *Promote member ownership of the network*

The 17<sup>th</sup> and 18<sup>th</sup> Management Board meetings were held respectively in Pretoria, South Africa and Pointes au piments, Mauritius. The two meetings took place respectively on 14-15 May 2015 and 26-27 October 2015. The meetings covered all the management and governance issues from the respective committees. These meetings focussed on development of road map for the next WaterNet strategy (2017-2021). Following discussions held in Malawi, terms of references for the sustainability committee was agreed upon and the committee with few two coopted members from the University of Witwatersrand (Prof Taigbenu) and the University of the Western Cape (Prof Mazvimavi) was formally established. Dr Hodson Makurira and Mr Andrew Takawira were respectively the new representatives of the University of Zimbabwe and GWPSA on the Management Board. The Annual General meeting in October accepted four new members in the network bringing the total number of members to 79.

#### *4.1.3 Carry out actions in support of IWRM at continental level, on the basis of southern African perspective and in liaison with sister networks and GWP*

WaterNet continues to closely work with GWP-SA in the promotion of IWRM in the SADC region and across the continent. During 2015 activities were jointly convened during the SADC water weeks, the annual symposium and the short professional trainings course on the GWP IWRM toolbox. Youth and journalists trainings were convened in SADC member's States with the involvement of Alumni and WaterNet Members. Two Trainings on the GWP IWRM toolbox were organised for the MSc students at the University of Zimbabwe and the University of Dar Es Salaam. WaterNet jointly with GWPSA and WMO convened a course on Enhancing Integrated Flood Management in Southern Africa, 22 – 26 June, 2015 Birchwood Hotel, Johannesburg, South Africa. This was attended by 21 participants.

#### *4.1.4 Expand WaterNet activities in East Africa*

WaterNet in collaboration with WaterCap, a Cap Net-UNDP affiliated network from East Africa, facilitated a four day course on Sustainable Water Supply and Sanitation Systems for Low Income & Peri-Urban Areas, 21 – 25 September 2015 in Nairobi Kenya. Students at the University of Dar Es Salaam continue to undertake their dissertation in Kenya, Uganda and Tanzania as part of WaterNet effort to maintain his presence in East Africa. Representatives from Uganda, Kenya and Rwanda were also present during the 16<sup>th</sup> WaterNet symposium held at Pointes aux Piments in Mauritius.

#### *4.1.5 Efficient operating Executive Management responding to network needs*

The year 2015 saw the consolidation of the normalisation of activities at WaterNet. The programme coordinator completed successfully his probation period and graduated for his PhD. As part of his sabbatical Professor Manzungu spent six months at the WaterNet Secretariat in 2015. He led the development of the SADC research agenda that was subsequently presented and approved by the SADC water Ministers in July 2015. A communication intern Ms Eness Mutsvangwa-Sammie under the post Masters facility was also added to the Secretariat during the first half of the year. The new and modern WaterNet website went live on 25 May 2015 and it has social media links in an effort to increase WaterNet online presence and outreach.

#### *4.1.6 Professional financial management*

In 2015, the accounting package and the financial accountant (Chartered accountant) supported by the administrator conducted all financial processes procedurally and this resulted in an unqualified external audit. The taxation return in Botswana where the Trust is registered was done by KPMG throughout 2015. DGIS introduced a new format for liquidity forecast and the financial accountant travelled to Maputo for an induction of the new system that is now in place.

#### *4.1.7 Financial sustainability*

In 2015, the WaterNet Trust did not experience any substantial increase in terms of its financial sustainability. Though several contracts were signed with other partners beside DGIS, 2015 saw DGIS contribution representing 79 % of our actual expenses which is higher

than 2014 where DGIS actual contributions was seating at 69 %. Some positive development to take note of is the long-term agreement with the Zambezi Water Course Commission (ZAMCOM) that is under discussion, an MOU should be signed in the course of 2016.

The target of securing additional funds from other partners beside DGIS up to 30% was not achieved in 2015 as only 21 % of the actual budget came from other partners (DANIDA, IUCN, GIZ, CapNet/UNDP and GWPSA).

#### 4.1.8 Thematic working groups established

In 2015, these themes were covered at strategic level through the Management Board committees recommendations and supervisory roles. Detailed inputs are captured in the five WaterNet’s thrusts (Governance & Management, Education, Trainings, Collaborative research and outreach).

#### 4.1.9 Financial sustainability through income generation and contributed funds

In 2015, the following distributions toward WaterNet expenses was achieved out of a total amount of Euro 1,599,685 : DGIS Euro 1,265,888; DANIDA Euro 83,725; Membership inclusive of commissioned training courses: Euro 107,173; CapNet/UNDP: 38,998 ; GIZ: Euro 21,208 ; the CGIAR-Challenge Programme Euro 29,406;

Figure 4.1 below provides the breakdown visual and the corresponding table 4-1 the exact amounts

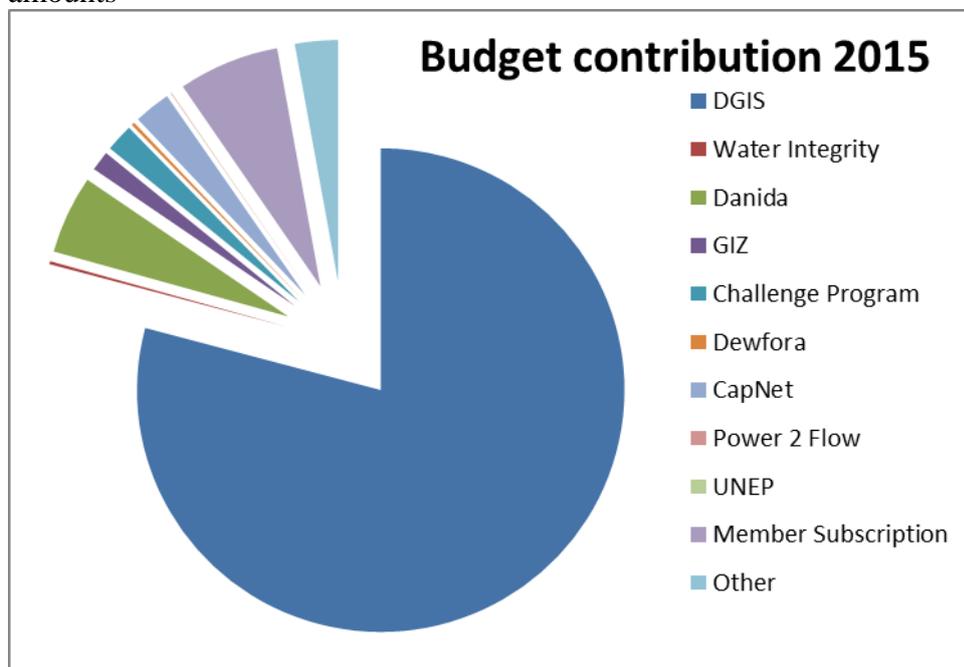


Figure 4- 1 2015 WaterNet Budget contribution

Table 4-1 2015 WaterNet Budget contributors

<b>Contributor</b>	<b>Euro</b>
DGIS	1,265,888
Water Integrity	3,251
Danida	83,725
GIZ	21,208
Challenge Program	29,406
Dewfora	3,503
CapNet	38,998
Power 2 Flow	614
UNEP	298
Member Subscription	107,173
Other	45,621
<b>Total</b>	<b>1,599,685</b>

#### *4.1.10 Monitoring, evaluation and reporting procedures in place*

WaterNet continually strives to improve its reporting, monitoring and evaluation procedures to enable assessments on the impacts and sustainability of the programme to be made in an objective and informed manner. This is done from the Management Board through the various committees and the implementation is coordinated through the Secretariat with the members involved in the actual implementation. In 2015, the terms of reference of committees of the Management Board were still in place and report were done twice per year as usual. The terms of two trustees came to an end. Dr Magole and Professor Mkandawire, the two trustees were re-elected into the Trust by acclamation. Dr H Makurira was appointed as the Trustee representing the University of Zimbabwe host of the WaterNet Secretariat. Below the composition of the WaterNet Management Board and the respective committees for the year 2015. The Phase III mid-term review was concluded in June 2015 and some useful recommendations will be taken into account as phase IV is being put together.

#### *Composition of the Board of Trustees:*

- Dr. L Magole (University of Botswana), Chairperson
- Prof G. Jewitt (University of KwaZulu Natal)
- Prof F. Ilunga (University of South Africa)
- Dr R. Kimwaga (University of Dar Es Salaam)
- Dr H. Makurira (University of Zimbabwe)
- Prof B. Mapani (University of Namibia)
- Prof T. Mkandawire (University of Malawi)
- Ms J. Muzamhindo (Africa University)
- Prof F Mucavele (Universidade Eduardo Mondlane)
- Dr J Kileshye Onema (WaterNet). *ex-officio*

#### *Composition of Committees*

- i. Finance Committee: Prof Mapani (Chair), Dr L Magole, Dr J Kileshye Onema, Prof F Mucavele, Dr H Makurira serviced by the Manager and Financial Accountant
- ii. Human Resources Committee: Dr L Magole (Chair), Mr A Takawira(GWP-SA), Prof G Jewitt, Ms JMuzamhindo, Dr J Kileshye Onema serviced by Ms Muzamhindo.
- iii. Curriculum Review and Quality Control Committee: Dr Kimwaga (Chair), Ms J Fatch (Alumni), Eng Van Lieshout, Dr H Makurira, Coordinators representative, serviced by the Programmes Coordinator.
- iv. Research Committee: Prof G Jewitt (Chair), Prof van der Zaag (UNESCO-IHE), Eng Van Lieshout (ITC), Mr P Ramoeli, Prof F Ilunga, Dr Kileshye Onema; serviced by the Manager.
- v. Membership Committee: Prof T Mkandawire (Chair), Prof B Mapani, Dr R Kimwaga and Ms J Fatch (Alumni); serviced by the Programmes Coordinator.
- vi. Sustainability Committee: Prof G Jewitt (Chair), Mr PRamoeli (SADC), Dr L Magole, Mr A Takawira (GWP-SA), Prof F Mucavele, Dr J Kileshye Onema, Prof A Taigbenu\*, Prof Mazvimavi\*serviced by Dr J Kileshye Onema

\*coopted members

## **4.2 Deliver, sustain and expand the regional Master programme in IWRM**

### *4.2.1 Deliver the Master programme at two core host institutions*

#### 1. Masters in Integrated Water Resources Management (IWRM)

##### 1.1. **2016/17 Intake**

A total of 187 (132 male and 55 female) applications for the 2016/17 intake were received by the 4th of September 2015. The selection process for the awarding of scholarships was done on the 11th of September 2015 at the WaterNet Secretariat offices in Harare. This meeting was attended by members of WaterNet Secretariat, a representatives from the University of Dar es Salaam's College of Engineering (i.e. Dr Richard Kimwaga), the University of the Western Cape (i.e. Dr Thokozani Kanyerere) and University of Zimbabwe's Civil Engineering Department (i.e. Dr Collin Mabiza, Dr Shepherd Misi, Eng. Zvikomborero Hoko and Mr Webster Gumindoga). A total of 24 applicants were selected for awarding of scholarships under priority list one while the same number was selected under priority list two (See annexes).

## 2. UNIVERSITY OF ZIMBABWE UPDATE BY INTAKE

### 2.1 MSc IWRM 2011-12 Intake

Belinda Ncube, a student from this intake who was repeating the module, GIS, Data Base Management and Analytic Tools (IWRM 537) managed to graduate on the 2nd October 2015.

### 2.2 MSc IWRM 2013-14 INTAKE

Ngoie Christelle Lwaba, who is from the 2012-13, graduated on the 2nd of October 2015 when the University of Zimbabwe had its graduation ceremony. She managed to finish her dissertation corrections.

### 2.1 MSc IWRM 2013-14 INTAKE

Three students from this intake, Bezel Garedondo, Trust Nhubu and Maxwell Ngwenya graduated on the 2nd October 2015. One student from the intake, Castro Ntemansaka submitted his dissertation at the end of September 2015, and will be examined in October 2015.

### 2.4 2014-15 MSc IWRM Intake

Six students from this intake, Susan Wallani, Hastings Mbale, Kuitakwashe Nhongo, Michael Harawa, Faith Chivava and Samuel Mwanangombe graduated on the 2nd of October 2015 at the University of Zimbabwe. These were the only students who managed to submit their dissertations in time for the oral examinations and for the marks to be submitted to the Academic Board. The rest of the students in the Intake (five students) submitted their dissertations at the end of the September 2015. Their dissertations will be marked in October 2015 and the marks will be presented to the Academic Board which will sit in January 2016.

### 2.5. 2015-16 Intake

Fourteen students in this intake completed their Specialisations. They came back to the UZ campus on Monday 12 October 2015. No problems were reported during the Specialisations, and all modules were offered as planned. Students have already chosen research topics and they are developing their proposals which will be conducted in 2016.

## 3. UNIVERSITY OF DAR ES SALAAM

### 3.1. 2015/16 Intake

The 2015/2016 batch has a total number of 17 students from the various SADC countries and beyond. Fourteen (14) students are sponsored by WaterNet, one by the Ministry of Water – Tanzania and two students are under private sponsorship. The students attended specialization modules in different institutions from July to October 2015 and have reported back to UDSM to continue with the remaining modules before starting the research component.

### 3.2. 2014/15 Intake

The 2014/2015 batch had a total of 15 students from the various SADC countries and beyond. Fourteen (14) students graduated in November after successfully defending their dissertations. One student (Mr. Songo Majura) is still working on his dissertation.

### 3.3. Specialisation

All specialisation institutions reported that modules undertaken at their respective institutions went on well. There were no academic challenges encountered. All the students passed their specialisation modules.

### 3.4. Challenges

Students going for specialisation to UKZN still face challenges related to affordable accommodation. The other challenge faced by students going for specialisation to South Africa relates to delays in the processing of study permits.

#### 4.2.2 Deliver the option modules (specialisations) at seven host institutions

Students undertook in July 2015 their specialisation at the seven specialisation hosts ( the Polytechnic of Namibia, the University of The Western Cape (South Africa), the University of KwaZulu Natal (South Africa), the University of Malawi, The University of Dar Es Salaam, the University of Zimbabwe and the university of Botswana).

#### 4.2.3 Master students carry out relevant and high quality research, supported by core and specialisation host institutions

WaterNet IWRM students are encouraged to present their research results at the annual WaterNet GWP-SA symposium. 3 PhD students and 8 Msc students presented their work during the symposium in Mauritius. In 2015, WaterNet supported the attendance of 4 students to the annual symposium. Table 4-4 shows the presentations made by the students. Last year, 4 papers based on Master research were published in the journal. Unfortunately this year there were no papers from students accepted in the special issue of the journal.

**Table 4-4 presents the presentations made by WaterNet students (Msc & PhD) at the WaterNet GWP-SA symposium at pointes aux Piments, Mauritius.**

Name	Title Of Presentation	Theme	Oral/poster
<b>M. Maliehe</b>	Assessment of water availability for competing uses in South Phuthiatsana catchment, Lesotho using SWAT and WEAP	Hydrology and global change	Oral-Msc
<b>H Mbale</b>	Water balance estimation for Lake Chilwa Catchment-Malawi	Water, Land and Agriculture	Oral-Msc
<b>E. P. Mutsvangwa-Sammie</b>	Characterization of Agricultural Innovations in a Rural Semi-arid Area of the Limpopo Basin in Zimbabwe	Water, Land and Agriculture	Oral-Phd
<b>W Gumindoga</b>	Bias correction of CMORPH satellite rainfall product in the Zambezi basin	Hydrology and global change	Oral-Phd
<b>T Nhubu</b>	Implications of land use and land cover change on floods in Eastern Zambezi region, Namibia	Water, Land and Agriculture	Oral-Msc
<b>M Mabuku</b>	Rural households' flood disaster preparedness: A comparative study of cases from Zambia and Namibia	Water and society	Oral-Phd
<b>F Chivava</b>	Characterising Water quality Indicators using GIS and RS techniques in Upper Manyame Sub-catchment, Zimbabwe	Water and Environment	Oral-Msc
<b>K Nhongo</b>	Assessing the fate of organic matter in Harare water distribution system, Zimbabwe	Sustainable water distribution and sanitation	Oral –Msc
<b>M Harawa</b>	Investigating Unaccounted for Water in a Utility, A Case Study of Area 15, Area 18 and Area 28 for Lilongwe Water Board, Malawi	Sustainable water distribution and sanitation	Oral-Msc

<b>C Mufwaya</b>	Evaluation of TRMM rainfall estimates for hydrological modelling in the Lake Kariba sub-basin	Hydrology and global change	Poster-Msc
<b>Z Chaki</b>	The assessment of groundwater vulnerability due to rapid expansion of urban informal settlements. A Case study of Temeke District, Dar es Salaam, Tanzania	Sustainable water distribution and sanitation	Poster-Msc

#### *4.2.4 Establish third core host institution and develop mechanism for Lusophone/Francophone delivery*

The activity was deferred beyond the current phase III and it will be considered for the next phase 2017-2021 subject to funds availability.

#### *4.2.5 Improve embedding of option modules in local Master programmes at all option host institutions*

This activity was implemented in 2015 once more through the IWRM toolbox trainings that were conducted at the Universities of Zimbabwe and Dar Es Salaam. Furthermore, the Msc specialisations at the Namibia University of Sciences and Technology and the one at the University of the Western Cape are built within existing programmes at those universities.

#### *4.2.6 On-going quality control*

The Curriculum Review and Quality Control Committee continues to play a significant role in ensuring WaterNet activities and products are of high quality. The committee reviewed the following during the reporting period.

1. Reviewed the 16<sup>th</sup> symposium programme and led to the International scientific committee
2. Reviewed and assessed the progress reports from core and specialization hosts of the Masters Programme.
3. Advised the Management Board on the curriculum and quality of the Master Programme;
4. Provided strategic guidance in the development of the concepts notes of all the WaterNet training Programmes that were convened during this reporting period.

#### *4.2.7 On-going curriculum development*

The curriculum revision for the IWRM Masters Programme was finalised and has been implemented at the University of Zimbabwe and the University of Dar Es Salaam since 2012. In 2015, the consolidation of the normal schedule for the IWRM classes took place. The Msc in IWRM resumed the normal schedule. During the second week of February 2015, the taught part started at the two core hosts (University of Zimbabwe and University of Dar Es Salaam). From July to October 2015, students conducted their specialisation at 7 other institutions within the SADC region.

#### *4.2.8 Deeper links developed with other relevant Masters programmes at SADC universities, as well as with international partners*

Under the facilitation of the SADC Water Division, WaterNet continues to work with SANWATCE in the search for broad links at the Masters Programme. In April 2015, the SADC water research agenda was developed jointly with GWPSA, SANWATCE and WaterNet.

#### *4.2.9 Implement web-based platform for Master lecture materials and develop distance and online learning modules (core and options)*

In 2015, CapNet/UNDP conducted online training on their virtual campus. The on-line concept note for WaterNet was initiated and developed in the course of the year. The pilot course are scheduled to take place in 2016 with the involvement of core and specialisations institutions. The University of Mauritius, The University of Twente and the University of South Africa will lead the process

#### *4.2.10 Increased and more representative admissions*

For the 2014-2015 intake, 4 students out of 28 are supported from other sources than DGIS. For the 2015-2016 intake 5 students out of 33 organised their fellowships from other sources.

#### *4.2.11 Language course run (pre-masters)*

The course for students coming from non-English speaking countries was not conducted in 2015. Personalised language courses were organised for students who came from Mozambique and the DR Congo.

### **4.3 Deliver relevant and responsive professional training**

The WaterNet Professional Training Programme facilitates competency training through short courses. The courses are mainly targeted at meeting the needs of practicing water professionals in river basin organisations, water utilities, municipalities, country water partnerships and other organisations. The programme is implemented by WaterNet members in close collaboration with the SADC Water Division, GWPSA and Cap-Net and the global network of Integrated Water Resources Management capacity building networks. During 2015 six training courses were delivered to 125 participants.

#### *4.3.1 Systematic input and feedback from SADC and GWP-SA*

In 2015 WaterNet conducted short professional training courses in the framework of the IWRM toolbox both at the University of Zimbabwe and the University of Dar Es Salaam in Tanzania. Msc students were tasked to provide case studies as a feedback to this training. Jointly with GWPSA and with technical support from the World Meteorological Organisation (WMO) a course on Integrated Flooding Management was convened for SADC Nationals at Birchwood in South Africa.

#### *4.3.2 Increased partnerships for design and delivery of training courses*

In 2015, WaterNet partnered with the following institutions ( CapNet/UNDP, WMO, GWPSA, WaterCap, UDSM, UZ, UEM, Aquashare, IUCN, IWSD, Sida) for the joint delivery of short professional training courses.

#### *4.3.3 Deliver at least ten relevant, responsive courses per year, and investigate options for distance and online learning*

Below is a summary of training activities which were carried out successfully during 2015. As reported earlier six training courses were implemented and a total of 125 people attended. Details of participants are reported in annex 5.

- i. Strategic Implementation of IWRM at River Basin Level: Concepts and Operational Tools, 13 – 16 October 2015. This was attended by 19 participants. Hosted by AQUASHARE – Mozambican Water Association and Faculty of Engineering – Eduardo Mondlane University
- ii. Enhancing Integrated Flood Management in Southern Africa, 22 – 26 June, 2015 Birchwood Hotel, Johannesburg, South Africa. This was attended by 21 participants. This course was jointly convened with GWPSA and WMO provided learning materials.
- iii. Sustainable Water Supply and Sanitation Systems for Low Income & Peri-Urban Areas, 21 – 25 September 2015. Held at the Rio Hotel, Nairobi Kenya. This was attended by 17 participants. Eleven of these were from Southern Africa including one each from Angola and Madagascar. This course was convened jointly with Watercap and the Institute of Water and Sanitation Development (IWSD).
- iv. Training of MSc IWRM Students on the GWP ToolBox in Zimbabwe, 27th – 28th November 2015, Troutbeck, Nyanga. The course was jointly funded by WaterNet and GWPSA and the university of Zimbabwe coordinated logistics.
- v. Training of MSc IWRM Students on the GWP ToolBox in Tanzania, 9th – 11th December 2015. The course was jointly funded by WaterNet and GWPSA and the university of Dar Es Salaam coordinated logistics.
- vi. Promoting the Application of Environmental Flows in the Management of Transboundary River Basins in Southern Africa, 30th November - 3rd December 2015, Cape Town, South Africa

#### *4.3.4 Increase delivery in Portuguese and French*

In 2015, the training of trainers on Strategic Implementation of IWRM at River Basin Level: Concepts and Operational Tools, 13 – 16 October 2015 was conducted in Portuguese in Maputo. As reported under 4.3.3 This was attended by 19 participants. Hosted by AQUASHARE – Mozambican Water Association and Faculty of Engineering – Eduardo Mondlane University with additional financial support from CapNet/UNDP.

#### *4.3.5 Build the capacity of young water professionals*

WaterNet Alumni were supported in 2015 to attend the annual symposium in Mauritius. Alumni were trained during the SADC water weeks. Selected Alumni were also contracted to

administer the survey to employer. An induction meeting of those Alumni was supported through DUPC and the meeting was hosted by the WaterNet secretariat.

#### *4.3.6 Host institutions to offer Master modules as short courses*

The University of Zimbabwe and the University of Dar Es Salaam conducted the IWRM toolbox training as part of the Water law module. Details of these activities were reported under short professional training courses (under 4.3.3).

#### *4.3.7 Investigate possibilities for professional certification*

WaterNet and CapNet/UNDP agreed on developing a concept note in order to explore the possibility of certification for the face to face course as well as those conducted online. A roadmap of the process has been defined and the activities will be done in the course of 2016.

#### *4.3.8 Implement 2 catchment partnerships per year*

Promoting the Application of Environmental Flows in the Management of Transboundary River Basins in Southern Africa was conducted for ORASECOM, SAVE and PUNGWE river basin organisations. The workshop was held at the Southern Sun Hotel, Newlands, Cape Town 30th November - 3rd December 2015. The workshop consisted of interactive presentations, plenary discussions, group exercises and presentations, and a field visit to the Berg River Dam located 70 km from Cape Town and close to the town of Franschhoek. The Berg River Dam was designed and constructed to enable the provision of environmental flows. Thus a guided visit of this dam enabled participants to develop an understanding of the incorporation of environmental flows in the design and operation of water resources projects.

#### *4.3.9 Develop the water utilities partnership with UNDP (Cap-Net) and implement 1 partnership per year*

No activities were implemented during 2015. The main partners CapNet/UNDP indicated a major budget reduction and a revision of its annual workplan.

### **4.4 Carry out IWRM research for development to achieve impact and uptake and expand IWRM research in the region**

This is an on-going activity which is executed jointly through Water Research For Southern Africa (WARFSA) and WaterNet. WaterNet has been closely monitoring developments in efforts to revive WARFSA. In 2014, WaterNet jointly with GWPSA agreed to work toward the development of the SADC research agenda for the region.

#### *4.4.1 WaterNet, WARFSA and GWPSA to lead regional research agenda, with an emphasis on uptake, through targeted stakeholder engagement processes in the region*

The initiative of WaterNet Professorial Chairs was evaluated in 2013 and the Management Board decided to discontinue the initiative as it was not yielding the expected results. The Board decided to launch an initiative that will build the capacity of new PhD graduates in a form of a Post-doc position or Research Fellows depending on models available

in respective institutions. The position was open to the entire WaterNet membership not only to Masters of Science hosts institutions.

#### ***4.4.2 Implement collaborative research projects that are relevant, coordinated, and integrated into network activities and linked to uptake of results***

##### **1. Danida Project on Zambezi.**

The Danida funded project in the Zambezi runs as part of the WaterNet PhD programme. All the 3 PhDs and 5M.Sc. students have been identified. M.Sc. Students are enrolled at the University of Zimbabwe and the 3 PhDs students registered respectively at the University of Zambia, University of Kwazulu Natal and ITC continued with their candidatures in 2015. The 5 Msc students enrolled at the University of Zimbabwe graduated on 2<sup>nd</sup> of October 2015.

##### **2. SADC Water research agenda**

The research agenda that was developed in the first half of the year 2015 and endorsed by SADC water Ministers during their meeting that took place in Harare in July 2015. The research agenda was generally welcomed and have been considered in the development of the 4<sup>th</sup> SADC Regional Strategic Action Plan that will be running from 2016 to 2020.

##### **3. WaterNet Research Fellows**

Two WaterNet Research Fellows from the University of Kwazulu Natal and The University of Dar Es Salaam were identified and contracted in 2015. The two fellows have been given the Post-Doctoral position in the two host universities. The WaterNet Research fellow is expected to provide academic and scientific support to the following WaterNet activities:

- The WaterNet Master Programme in Integrated Water Resources Management (IWRM) in terms of quality insurance and academic guidance;
- The acquisition and implementation of WaterNet collaborative research projects
- The implementation of the SADC water research agenda jointly with WARFSA
- The scientific guidance of the annual WaterNet symposium and the associated activities such as the publication of the JPCE special issue.
- Other areas of research and service assigned by WaterNet in collaboration with the host University

#### 4.4.3 Seek funding for new research activities and establish new collaborative research projects

The following proposals on collaborative research initiatives were submitted in 2015

Project	Title	Lead institution	Time line
TRANS2GRO (H2020) Annex 5-5	Unlocking the benefits of GROundwater for local communities through a TRANSdisciplinary assessment of TRANSboundary aquifers (TRANS2GRO)	University of Dundee Participating institutions Bioforsk SIWI University of Strathclyde University of Botswana University of Free State University of Zimbabwe WaterNet	Proposal not successful
Afri-Alliance (H2020) Annex 5-6 (extract)	Africa-EU Innovation Alliance for Water and Climate.	UNESCO-IHE (lead) 15 other institutions (7 from the South and 8 from the North)	Proposal Successful and scheduled to be implemented from 1 <sup>st</sup> March 2016)
Dynamic-Delta Annex 5-7	Anticipatory delta planning for sustainable and inclusive development of the Lower Zambezi	TU Delft UNESCO-IHE HKV VU University Amsterdam ARA Zambeze WaterNet	Full proposal submitted and initial meetings conducted with local partners in Mozambique.
FCFA 2014 Regional Consortium Grants	Uncertainty Reduction in Models for Understanding Development Applications (UMFULA).	University of London UKZN Bunda college of Agriculture Sokoine university of Agriculture University of Dar Es Salaam	The Full proposal was successful and the Start was April 2015
SHEAR 2015	Increasing resilience to droughts and floods in Sub-Saharan Africa through risk based monitoring, forecasting and warning	UNESCO-IHE, University of Birmingham, CSIR, Institute for Development Studies, Deltares, Universidad Politecnica de Madrid, Dabane Trust, WaterNet and Oxfam	Outline proposal successful and full proposal under development schedule to start on 1 <sup>st</sup> May 2016
SHEAR 2015	Building Risk Evaluation Ability in Drought (BREAD) and Flood-prone Zambezi Valley to enhance disaster resilience	University of Manchester, University of Malawi, Eduardo Mondlane University, University of Zimbabwe, WaterNet, Bindura University	Not successful

#### 4.4.4 Capacity building in research through mentorship, training and the PhD programme

As reported under 4.4.3 DANIDA continued its support toward the WaterNet PhD programme in 2015. The three (3) PhD fellows continued their candidatures as appropriate and their research works were presented during the 16<sup>th</sup> WaterNet symposium in Mauritius. Six universities from the SADC region are still part of the supervision framework of the programme. ZAMCOM serves as the policy interface and seats on the steering committee of the programme as summarised below.

##### Regional WaterNet PhD Programme- Supervision Framework

	PhD Fellowship 1	PhD Fellowship 2	PhD Fellowship 3
<b>Name and Surname</b>	MulengaKalumba	Petrina Mabuku	Webster Gumindoga
<b>Country</b>	Zambia	Namibia	Zimbabwe
<b>University</b>	UNZA	UKZN	University of Twente
<b>Focus Area</b>	Eco-hydrology	Institutional and social	Water Resources Management
<b>Supervisors from Host University</b>	Dr E Nyirenda	Dr Aidan Senzanje Dr Maxwell Mudhara	Dr THM Rientjes Prof W Verhoef
<b>Supervisors from WaterNet</b>	Prof D Mazvimavi-UWC Prof D Nkhuwa-UNZA	Prof O W Mulwafu-UNIMA Prof G Jewitt-UKZN	Dr H Makurira-UZ Prof D Juizo-UEM
<b>Policy interface</b>	ZAMCOM	ZAMCOM	ZAMCOM
<b>Funding</b>	DANIDA	DANIDA	DANIDA
<b>Coordination</b>	WaterNet	WaterNet	WaterNet

##### Acronyms

<b>DANIDA</b>	Danish Development Assistance Programme
<b>UEM</b>	Universidade Eduardo Mondlane (Mozambique)
<b>UKZN</b>	University of Kwazulu Natal (South Africa)
<b>UNIMA</b>	University of Malawi
<b>UNZA</b>	University of Zambia
<b>UWC</b>	University of Western Cape (South Africa)
<b>UZ</b>	University of Zimbabwe
<b>ZAMCOM</b>	Zambezi Water course Commission

#### 4.4.5 Establish Post-Masters facility

In 2015, as part of this initiative, Ms Eness Mutsvangwa-Sammie continued the intership that she started in 2014 as a communication resource person. Her internship came to an end in May 2015.

#### 4.4.6 Establish WaterNet PhD programme, under basket funding, under the leadership of the WaterNet Host institutions and in liaison with international partners

As reported under 4.4.5 with the financial support from Danida, the WaterNet PhD programme is continuing within the Zambezi Basin. Now all the three PhD students and five MSc students have been awarded the fellowships and the project is scheduled to run up to

December 2016. In 2015, all the Msc students completed their dissertations that were contributing to PhDs. The Msc students came from Malawi (1) Zambia (1) and Zimbabwe (3).

#### *4.4.7 Facilitate the establishment, through SADC, of a formalised regional research platform, linked to the regional research agenda*

In April 2015, the SADC Water Research agenda was developed and in July it was approved by SADC water ministers. The agenda has been embedded in the formulation of the RSAP IV (2016-2020). WARFSA remains the mechanism that was identified as a mean of implementing the research agenda though governance and funding mechanism are yet to be clearly articulated.

### **4.5 Promoting the understanding and implementation of IWRM at regional, national and local levels**

#### *4.5.1 Outreach and advocacy through liaison with GWP-SA, AgWA and other partners*

##### **Agricultural Water for Africa Partnership (AgWA)**

The Agricultural Water for Africa Partnership, AgWA, is a voluntary partnership comprising various African governments, public and private institutions and international organisations that have a common interest and desire to support improved agricultural water management and development and investment in agricultural water management in Africa. In January 2011, WaterNet was selected to chair the Steering Committee for East and Southern Africa and to drive activities in the region, and to chair the Pan-African Steering Committee, alternating with the ECOWAS Water Resources Institute.

In 2015, WaterNet was invited to the steering committee meeting on 25 and 26 November 2015, the steering committee meeting in Addis-Abeba, Ethiopia. the expected outcomes of the meeting were:

1. Review of AgWA Operational Plan for 2014-2015.
2. Agreed upon - by its Steering Committee members and Partners - Operational Plan of AgWA for 2015-2016 and a “Delivery Framework” with prioritized activities in line with the Partnership’s main components.
3. Agreed upon - by its Steering Committee members and Partners, Governance Structure and Implementation Set-up.



In 2015, WaterNet also participated in the following events:

1. SADC water week in Botswana, DRC, Tanzania and Zimbabwe
2. CapTEC expert consultation meeting (March 2015)
3. UNESCO-IHE stakeholder consultations meeting (April 2015)
4. 9th International Conference on Community Based Adaptation to Climate Change in Nairobi, Kenya –April 2015.
5. World Water Week, August 2015
6. SADC Dialogue, Windhoek-Namibia, 29-30 September 2015
7. ACCFP Phase III inception meeting, Dar Es Salaam-Tanzania-September 2015
8. CapNet/UNDP network manager’s meeting- Cartagena, Colombia November 2015

### 4.5.2 Online outreach

During 2015 four WaterNet newsletters were produced and circulated to members and the water sector through electronic media. The publications are also available on the WaterNet website. The newsletter continues to be a useful and quick method of sharing information on WaterNet activities and on-going initiatives in the Water Sector in Southern Africa and beyond.

The new and modern WaterNet website was launched on Africa day (25 May 2015) and it features social media links such as Facebook and Twitter. The website has been designed so that we can capture all statistics in terms of visit. During the course of the year, the website was regularly updated and materials such as strategy documents and past publications were uploaded regularly. This is an on-going exercise as the intention is to have all the MSc theses available on the website.

### 4.5.3 Annual WaterNet/WARFSA/GWP-SA Symposia

The 16th WaterNet/ WARFSA/ GWP-SA Symposium, was successfully held at Le Meridien Hotel, Pointes aux Piments, Mauritius - from 28-30 October 2015.

The Symposium was meant to promote interaction among policymakers, academicians, practitioners from water and related sectors and key cooperating partners. Together they identified regional issues, gaps and priorities that require further research and support. Great emphasis was placed on integration of knowledge, particularly involving scholars from the natural and social sciences. The University of Mauritius led the Local organising committee of the Symposium. During the 2015 AGM, hosts for the 2016 symposium was identified to be the University of Botswana.

The Symposium managed to attract over 270 delegates and 114 oral presentations were made. Female registered delegates accounted for 41% while male delegates 59%. Only 72% of all delegates paid their registration fees on time. Most of the delegates were above 35 years i.e. 68%. The countries with the highest number of delegates include Mauritius (15%) South Africa (25%), Zimbabwe (18%) and Malawi (12%).

**Table 5 Number of presentations per sub-theme during the symposium.**

Sub Theme	Oral	Poster	Total
Hydrology	25	21	46
Water and Environment	25	18	43
Water and Land	18	6	24
Water and Society	13	5	18
Water Resources Management	7	2	9
Water Supply and Sanitation	20	14	34
Scientific session	6		6
<b>Total Presentations delivered</b>	<b>114</b>	<b>66</b>	<b>180</b>

### **Journal of Physics and Chemistry of the Earth**

The presenters at the 15<sup>th</sup> WaterNet/WARFSA/GWP-SA annual symposium held between 29-31 October 2014 in Lilongwe, Malawi submitted papers to the special issue of the Journal of Physics and Chemistry of the Earth. Out of all the papers submitted, 11 papers were accepted for publication in the first batch, in the special issue, under the six sub-themes as defined by WaterNet. The editorial board of this special issue consisted of Prof Mapani (special issue guest editor), Dr Makurira, Prof Mashauri, Prof Mkandawire, Prof Ngongondo, Dr Mul, Dr Magole and Dr Mabvira-Meck (theme editors).

#### *4.5.4 Active WaterNet Alumni Association and Young Water Professional Chapters*



The WaterNet Alumni Association was launched in November 2007. The members have been very active in WaterNet activities since their inception. The Association is headed by a steering committee and an Alumni Board.

The WaterNet Alumni Association remains committed to be frontline ambassadors for IWRM in the region. The association's activities were achieved quite well in 2015.

In 2015, the Alumni Association held its Annual General Meeting during the 16<sup>th</sup> symposium, a tracer survey was initiated in the course of 2015 in order to document the impact of the WaterNet Msc programme from the employers perspective as well.

In 2015, WaterNet alumni were actively involved in all SADC water weeks' activities that led to the developments of the SADC RSAP IV.

## 5 Reporting, Budget and Expenditure Analysis

A detailed expenditure statement is presented as **Annex 1. Table 5-1** below provides a summary of the Phase III consolidated receipts and expenditures per December 2015. Detailed expenditures per donors are submitted in an excel work book together with this submission where budgets, actual expenses and variance can be seen. The noticeable variance in 2015 are recorded under the Msc fellowship and WaterNet Research fellowship. The latter is positive as the budget line was underspent. The variance on Msc fellowships is mainly attributed to loss in exchange rate between the Euro and the US dollar but also the slight increase in fees at host institutions.

The year 2015 marks the consolidation of the normalisation of WaterNet activities that was reported in 2014. Annual expenses were balanced in general and in line with budget allocations, however costs linked Msc Fellowships and to some extent Management experienced overspending as the Euro was generally weak in the course of 2015. DGIS disbursements were made as appropriate throughout the year 2015. The positive balance at the end of the year speaks to the 2015 advance disbursement that WaterNet received. The Audited financial reports and management letter for 2015 were produced by PWC (PriceWaterHousecoopers) and the opinions were unqualified.

Table 5-1 Consolidated receipts and expenditures from January 2015 to December 2015

WaterNet Trust												
CONSOLIDATED RECEIPTS AND EXPENDITURES STATEMENT FOR THE PERIOD ENDED 31 DECEMBER 2015												
(In Euro)												
	DGIS	Danida	MEM	CP	P2F	Cap-Net	GIZ	Dewfora	WATER INT	UNEP	SADC EAC	Total
<b>Receipts</b>												
Grants received	698,412	84,772	-	7,705	-	-	-	-	-	-	-	790,889
Interest income	60	38	24	4	-	30	-	-	-	0	-	156
ACCFP fellowship			12,059									12,059
DUPC TopUp funds			32,321									32,321
GWP-SA			10,000									10,000
IUCN			6,369									6,369
Membership subscriptions	-	-	14,907	-	-	-	-	-	-	-	-	14,907
Overhead	-	-	-	-	-	-	-	-	-	-	-	-
Other income	-	-	23,666	-	-	-	-	-	-	-	-	23,666
<b>Funding income</b>	<b>698,472</b>	<b>84,810</b>	<b>99,346</b>	<b>7,709</b>	<b>-</b>	<b>30</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>890,367</b>
<b>Other Income</b>												
Gain on foreign currency exchange	21,934	8,038	2,671	6,191	20	6,931	6	41	109	59	3	46,003
<b>Total receipts</b>	<b>720,406</b>	<b>92,848</b>	<b>102,017</b>	<b>13,900</b>	<b>20</b>	<b>6,961</b>	<b>6</b>	<b>41</b>	<b>109</b>	<b>59</b>	<b>3</b>	<b>936,370</b>
<b>Opening cash and bank balances</b>	<b>783,114</b>	<b>5,892</b>	<b>39,629</b>	<b>15,506</b>	<b>594</b>	<b>35,500</b>	<b>21,202</b>	<b>3,462</b>	<b>77,900</b>	<b>239</b>	<b>421</b>	<b>983,459</b>
<b>Total</b>	<b>1,503,520</b>	<b>98,740</b>	<b>141,646</b>	<b>29,406</b>	<b>614</b>	<b>42,461</b>	<b>21,208</b>	<b>3,503</b>	<b>78,009</b>	<b>298</b>	<b>424</b>	<b>1,919,829</b>
<b>Description</b>												
Disbursements	1,261,416	83,717	106,463	29,406	614	36,990	21,208	3,503	3,251	298	424	1,547,290
Loss on foreign currency exchange	-	8	51	-	-	-	-	-	-	-	-	59
Movements in travel advances	3,794	-	634	-	-	2,008	-	-	-	-	-	6,436
Fixed assets	678	-	25	-	-	-	-	-	-	-	-	703
<b>Total disbursements</b>	<b>1,265,888</b>	<b>83,725</b>	<b>107,173</b>	<b>29,406</b>	<b>614</b>	<b>38,998</b>	<b>21,208</b>	<b>3,503</b>	<b>3,251</b>	<b>298</b>	<b>424</b>	<b>1,554,488</b>
<b>Net increase of cash receipts</b>	<b>237,632</b>	<b>15,015</b>	<b>34,473</b>	<b>-</b>	<b>-</b>	<b>3,463</b>	<b>-</b>	<b>-</b>	<b>74,758</b>	<b>0</b>	<b>-</b>	<b>365,341</b>
<b>Evidenced by cash and bank balances</b>	<b>237,632</b>	<b>15,015</b>	<b>34,473</b>	<b>-</b>	<b>-</b>	<b>3,463</b>	<b>-</b>	<b>-</b>	<b>74,758</b>	<b>-</b>	<b>-</b>	<b>365,341</b>

## 6 Deviation from Planned Activities

The 2015 workplan to implemented to a great extent and in lines with the budget allocations as approved by the Annual General Meeting. However some activities under the workplan were either deferred to the next year or the next phase of the implementation of the WaterNet strategy. The main source of apprehension as far as WaterNet activities in 2015 are concerned is probably the marginal decrease in financial contributions from other partners. It should however be noted that 2015 marks also the end of the large collaborative research projects that waternet was implemented since 2011 and this sends a strong signal on the need to work toward securing additional long-term contract as to work toward greater financial sustainability of the network.

Additionally the following outputs were not fully implemented:

- ✓ Output 2.4: Establish third core host institution and develop mechanism for Lusophone/Francophone delivery. As reported in 2014 this output has been deferred to the next phase of Waterent activities and this is subject to funds availability and demand from the countries.
- ✓ Outputs 3.9: The implementation utility partnerships was not fully conducted as the main partners (CapNet/UNDP)on the initiative experienced a reduction drastic reduction in funding.

Submitted on 31 May 2016



Dr Jean-Marie Kileshye Onema  
WaterNetManager

**8 Annex 1: Consolidated Receipts and Expenditures Statement (Period 1 January to 31 December 2015) as per General Ledger**

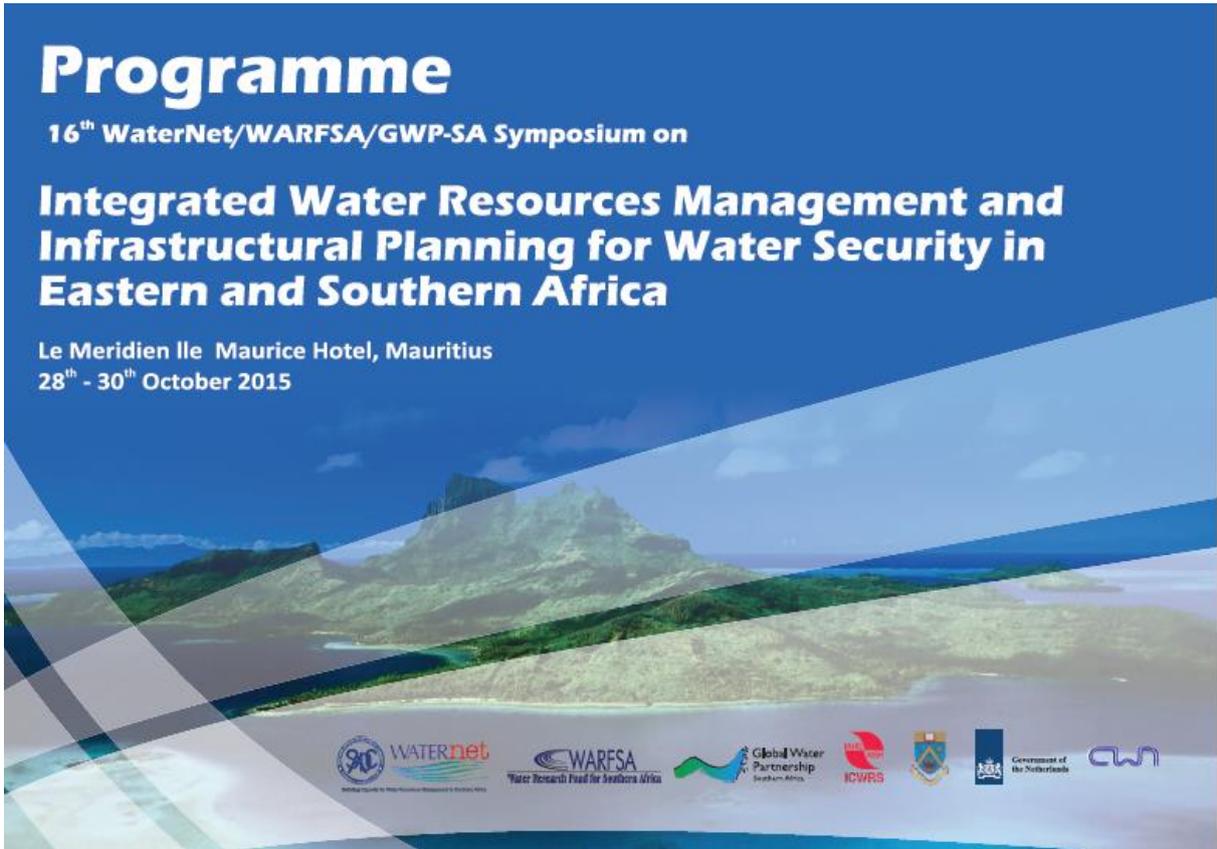
Please refer the detailed financial report submitted separately as an excel workbook (Financial report 2015)

# Programme

16<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium on

## Integrated Water Resources Management and Infrastructural Planning for Water Security in Eastern and Southern Africa

Le Meridien Ile Maurice Hotel, Mauritius  
28<sup>th</sup> - 30<sup>th</sup> October 2015



## 10 Annex 3 Published papers in special issue of Journal of Physics and Chemistry of the Earth

EdOffice	CorrespondingAut	Country	First author surname	Title
JPCE-D-15-00095	Chidya R.C.G.	Malawi	Nakoma	Evaluation of Borehole Water Quality in Rural-Areas Of Northern Malawi: Case of Zombwe in Mzimba.
JPCE-D-15-00051	Chinyama A.	Zimbabwe	Chinyama	Critical Pollution levels in Umguza River, Zimbabwe
JPCE-D-15-00078	Koriche Sifan A.	Ethiopia	Koriche	Application Of Satellite Products And Hydrological Modeling For Flood Early Warning
JPCE-D-15-00118	BÃ¶hme Beate	Germany	BÃ¶hme	How is water availability related to the land use and morphology of an inland valley wetland in Kenya?
JPCE-D-15-00086	Gagnon A.S.	United Kingdom	Mpala	The hydrology of sand rivers in Zimbabwe and the use of remote sensing to assess their level of saturation
JPCE-D-15-00080	Chidya Russel C.G.	Malawi	Chidya	Water supply dynamics and quality of alternative water sources in low-income areas of Lilongwe City, Malawi.
JPCE-D-15-00015	Pullanikkatil Deepa	Malawi	Pullanikkatil	Land use/land cover change and implications for ecosystems services in the Likangala River Catchment, Malawi.
JPCE-D-15-00074	Hamutoko J.T.	Namibia	Hamutoko	Estimation of Groundwater Vulnerability to Pollution based on DRASTIC in the Niipele sub-Basin of the Cuvelai Etosha Basin, Namibia
JPCE-D-15-00084	Mwenge Kahinda J.	South Africa	Mwenge Kahinda	Implementing Integrated Catchment Management in the upper Limpopo River basin: A situational assessment
JPCE-D-15-00097	Chidya R.C.G.	Malawi	Manda	Comparative Assessment Of Water Treatment Using Polymeric And Inorganic Coagulants.

## 11 Annex 5 List of participants Professional Trainings

Strategic Implementation of IWRM at River Basin Level: Concepts and Operational Tools, 13 – 16 October 2015- Maputo , Mozambique

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Promoting the Application of Environmental Flows in the Management of  
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**APPENDIX 2: List of Participants**

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GWP IWRM TOOLBOX TRAINING -LIVINGSTONE RESORT BEACH HOTEL, BAGAMOYO,  
TANZANIA 10-12 DECEMBER 2015

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Annex 1: List of Participants

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Sustainable water supply and sanitation systems for peri-urban areas  
September 21st -25th 2015, Hotel Rio-Nairobi, Kenya

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