

PROGRESS REPORT – 2015

Submitted to

**Cap-Net
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By

Cap-Net Lanka

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1. Reporting Period

January to December 2015

2. Introduction

Cap-Net Lanka as a country network of global Cap-Net UNDP, hosted at the Postgraduate Institute of Agriculture since year 2003, has been training professionals, decision makers, farmers, school children etc. on Sustainable Water Management. This yearly report highlights the activities conducted from January to December 2015.

Out of the list of proposed activities for 2015 shown in Table 1, only 5 were fully conducted due to various reasons. Delayed start as a result of changes of the CapNet Lanka Secretariat, breakdown of office equipment, difficult to find the matching funds and inadequate communication among members were some of the contributing reasons for the inability to conduct most of the activities. However, a substantial progress has been made during the latter

Table 1. List of activities planned during 2015

Description of Activity	Status
1.1.a. Training programme in Integrated Water Resources Management for official in the Northern Province in SL	Conducted
1.1.b. Training Workshop on Impact of climate change on water, food and environment	Conducted
1.2 a. Sustainable Sanitation and Water Management Training Workshop	-
1.2 b. Training on reduction of non-revenue water and water conservation	-
1.4.a. Gender & Water Dialogues	-
1.5.a. Education for school students, project through Electronic media – blog, face book, Google +	-
1.5.b. Catchment conservation awareness program for school children	-
2.1.a. National TOT in IWRM	-
2.2.b. Website Maintenance and update	Partly completed
2.2.b. Network office support	Conducted
2.3.a. National Symposium on Water resources researches in Sri Lanka and Water Professionals Day - 2015	Conducted
2.3.b. International Conference on Urban Water Environment : Monitoring and Management - 2015	-
3.3.a. Monitoring Evaluation and Learning Plan implementation	Partly Conducted
Core-event with 2.3.a	-
Cap-Net Lanka – PGIA Junior Water Awards 2015	Conducted

Total conducted = 5

part of 2015. A total of 202 individuals varying from school children to professionals were trained during this period. The details are given in the report under respective sections.

3. Network management

There were many changes during the latter part of 2014 and early 2015 which affected the smooth functioning of the CapNet Lanka Secretariat and its planned programmes. The CapNet Lanka coordinator of 2014, Dr L.W.Galagedera has migrated to Canada leaving Prof. M.I.M.Mowjood to take over as a Country coordinator on temporary basis. Prof. E.R.N.Gunawardenawas elected as a Country Coordinator of CapNet Lanka in latter part of 2014 and this selection was formerly approved by the CapNet and the host institution, i.e Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. Accordingly, appointment letter was issued in January 2015.

In addition, Ms.TharangaRandunu, former Administrative Assistant / Secretary was on maternity leave from October 2014 to May 2015. A temporarily appointment was made to cover the work assigned to the Administrative Secretary during this period.

Further, there was also some disruption of activities as a result of breakdown of the only computer, which was fairly old, at the Secretariat. As a priority, a hard disk was purchased to store all the important documents of CapNet Lanka. A new computer was purchased at the latter part of the 2015. A temporary arrangement was made with a borrowed computer to manage the day to day affairs of the Secretariat. The communication with the membership and the upgrading of the website was partly hampered as a result of these disruptions. Still a printer is required to fully complete the hardware requirement of the secretariat.

One of the notable achievements of the CapNet Lanka network management is the meeting of the Core group of CapNet Lanka after a period of 2 years. This meeting, held on 16th July 2015, has helped the core group to review the progress of the secretariat, programmes conducted and discuss the future activities. The minutes of the Core Group is given in the Annex 1.

The country coordinator of CapNet Lanka has participated in activities organized by other networks in the water sector. He delivered a keynote address at the Annual Partners Meeting of Sri Lanka Water Partnership held on 20th December 2015 at the Hotel Galadari, Colombo, Sri Lanka. He also participated as a chief guest and delivered a key note address at a Young Scientists School programme organized by Sri Lanka Water Partnership and the Rotary Club of Kandy on 11th June 2015. This programme in training the school children to take measurement of water quality parameters near their respective schools are funded by the USAID.

The Country Coordinator of CapNet Lanka also attended the Annual Network Managers and Partners Meeting held in Cartagena, Colombia from 17-20th November 2015.

One of the important activities which could not be accomplished during 2015 is to upgrade the CapNet Lanka website so that more active communication could be maintained among the members. Priority would be given to this task during the year 2016.

A total of 37 new members were added to Cap-Net Lanka family in year 2015. The list of all the CapNet Lanka members as at present is given in Annex 2.

4. Network activities

4.1 Core-Group Meeting

As mentioned above, a core group meeting was held in June 2015 after a lapse of two years (Annex 1).

4.2 Training Programme in Integrated Water Resource Management for officials in the Northern Province in Sri Lanka

The above training programme was held for 28 officials of the Northern Province of Sri Lanka from 18-22nd September 2015 to address emerging problems associated with water resources planning, development and management with the accelerated development work after the end of conflict. The programme was organized jointly by the CapNet-Lanka and the WASO-ASIA Project of Faculties of Engineering and Agriculture of University of Jaffna supported by the Government of Norway. In addition to the concept of Integrated Water Resources Management, the participants were provided with the latest information with regard to the issues that they are facing at present by the resource persons. These issues were further discussed during the field trip and the group works. The strategies to resolve the issues were formulated during the last day of the training programme. It was decided to continue this programme in year 2016 as well in view of the higher demand for capacity development in the Northern Province. The detail report is given in Annex 3.

4.3 Training Workshop on Impact of Climate Change, Food and Environment in Sri Lanka

The two day training workshop was conducted at the National Institute of Fundamentals Studies, 380/71,72BaudhalokaMawatha, Colombo 7, on 25th and 26th of June 2015. The objective of the above training programme was to make the government officers and community based offers aware of climate change impacts and how to cope or adapt with the situation. This workshop mainly focused on water, food and environment and help them to disseminate the knowledge they gained to the communities to face the climate change impacts.

All most all the participants reported that the workshop gave good knowledge and it was useful to their official, activities. Further the participants noted that the implementation is rather slow even though there are clear research finding. Officers from Irrigation department mentioned that adaptation measures are put forward for water resource s management but policy makers do not consider these as priority activities and they focus on different areas. Therefore the policy makers should be made aware of these climate change impacts and water resources management for food production should get the highest priority for fund allocation.

During the workshop it was possible to suggest establishing a **coordination mechanism** by connecting major water sectors such as Irrigation department, Water Supply and Drainage Board, Water Resources Board and Department of Agriculture. The detail report is given in Annex 4.

4.4 Water Professionals Day Symposium 2015

The Water Professionals' Day 2015 was organized by Cap-Net Lanka with the collaboration of Postgraduate Institute of Agriculture (PGIA), University of Peradeniya and Geo-Informatics Society of Sri Lanka. The theme of the Water Professionals' Day 2015 was '**Water – Food - Ecosystem Nexus: Connecting different water use sectors for water security**'. The main objectives of this symposium were to disseminating the knowledge generated by the researchers and water managers in terms of the connectivity between water, food production and ecosystem management.

The symposium consisted of an inaugural session, a panel discussion and three technical sessions. The panel discussion was conducted on the theme of the symposium; 'Water – Food - Ecosystem Nexus: Understanding the inter-sectoral linkages for sustainable water management. The three technical sessions were on 'Climate Variability, Water & Society; Water and Ecosystems and Water Quality and the Environment'. Twelve research papers were presented in these three sessions. The symposium attracted 96 participants including, researchers, policy makers, academics, water managers, administrators and students representing, universities, government, corporate and non-governmental sector institutions. The detail report is given in Annex 5.

4.5 Cap-Net – PGIA Junior Water Awards 2015

This "Cap-Net – PGIA Junior Water Awards 2015" was initiated as a novel concept to educate school children on water resources management through innovations. The Activity Coordinator and the postgraduate students of the PGIA helped school children from selected schools in the Central Province of Sri Lanka to conduct school research projects. These projects were evaluated and the first five schools were requested to participate at the Water Professionals' Day symposium. The school children presented their projects in front of the audience and the best three projects were selected and were awarded prizes. The private sector also helped in this endeavour. This activity

was very highly praised by all those who participated at the water professionals' day. Therefore, it is expected to hold the Cap-Net – PGIA Junior Water Awards 2016 with much wider participation.

4.6 Constrains

As shown in Table 1, some of the activities could not be held during the year 2015. It is relevant to mention here that the CapNet Lanka Secretariat include almost all the proposals received from its core group members irrespective of the availability of matching funds. However, only few of them would succeed in finding the matching funds to organize the activity. Changes in the CapNet Lanka Secretariat staff including the Country Coordinator, in adequate communication and follow up action has also contributed to organizing of all the activities during the second half of the year. It is expected to avoid this problem during the year 2016.

5. Results

A total of 202 individuals were trained through the activities conducted by the CapNet Lanka during the year 2015. The first two training workshops predominantly trained practitioners in line ministries whilst the water professionals' day mostly included academics and researchers. The last programme on Cap-Net – PGIA Junior Water Awards 2015 was focused on school children.

The residential training programme in Integrated Water Resource Management for officials in the Northern Province in Sri Lanka has been a major achievement for the CapNet Lanka in year 2015. It has helped to develop a strong link with the Faculties of Agriculture (represented by a Core Group member) and the Engineering. The WASO-ASIA project partly funded the programme in addition to provide expatriate resource persons.

The trainees from the first two activities were very impressed with the benefits accrued and wanted continue their association with the CapNet Lanka. This has also helped to increase the membership of CapNet Lanka.

As in the past, the CapNet-Lanka has failed to assess the in-kind contribution extended by the host institute and the partner organizations in an effective manner. This is one of the reasons for most cost effective training undertaken by the CapNet Lanka during the year 2015. It is expected to circumvent this short coming in year 2016.

Table 2: Summary of the activities of CapNet Lanka: (January- December 2015)

Topic	Date & Place	Organizer	Partner/ co- organizer	Participants			Month planned for outcome monitoring	Leverage Effect of financial contribution			List the Cap-Net training materials OR network' s training materials used in the activity
				Male	Female	Total		Cap-Net financial contribution	Partners financial contribution	In-kind partner contribution	
(1) Training Programme in Integrated Water Resources Management in the Northern Province of Sri Lanka	18-22nd September 2015, Kanakarayan kulam, Kilinochchi District, Sri Lanka	Faculties of Agriculture and Engineering, University of Jaffna and Cap-Net Lanka, Postgraduate Institute of Agriculture, University of Peradeniya	(funded by) the Cap-Net Lanka and the WASO-Asia project of the Jaffna University.	21	7	28		2588.88 US\$	2133.94 US\$ (WASO-Asia Project)		
(2) Training Workshop on Impact on Climate Change on Water, Food and Environment	25th and 26th of June 2015, National Institute of Fundamental Studies, 380/71,72 Baudhaloka Mawatha, Colombo 7,	National Institute of Fundamentals Studies and Open University of Sri Lanka Cap-Net Lanka	The Open University of Sri Lanka	16	12	28		243.08 US\$	615.38 US\$ Institute of Fundamental Studies		
(3) Water Professionals Day Symposium	1 st October 2015, Appadurai Auditorium, FOA, University of Peradeniya, Peradeniya	Cap-Net Lanka, Postgraduate Institute of Agriculture, University of Peradeniya and GISSL	Geo-Informatics Society of Sri Lanka (GISSL)	57	39	96		1061.73 US\$			
(4) Cap-Net Lanka-PGIA	1 st October 2015, Appadurai Au	Cap-Net Lanka, Postgraduate		31	19	50		1111.25 US\$	76.53 US\$ (Bank of	1262.82 US\$	

Junior Water Awards 2015	ditorium, Faculty of Agriculture, University of Peradeniya, Peradeniya	Institute of Agriculture , University of Peradeniya							Ceylon)		
(5) Core-Group Meeting	16 th July 2015, Board Room, Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya	Cap-Net Lanka, Postgraduate Institute of Agriculture , University of Peradeniya		07	03	10		578.85 US\$			
Capacity development trainings											
Educational and innovative learning and sharing activities											
Total											
Knowledge development (Case Studies/ training material/publications)											
Topic	Date & Place	Organizer	Partner/ co-organizer	Description on the product and links to download			Plan for outcome monitoring	Cap-Net financial contribution	Partners financial contribution	In-kind partner contribution	

(1 USD = 132.38 SLRS)

Table 3: Types of stakeholders reached through the capacity development activities

Table 3.1: Training Programme on Integrated Water Resources Management for Officials in the Northern Province in Sri Lanka

Type of profession	Number	Percentage
River basin organization/ water manager	1	3.57%
Academics/ researcher	2	7.14%
Policymaker/ Executive level officer	15	53.57%
Technical / social / government officer	4	14.28%
NGO official	1	3.57%
Journalist	-	-
Community members	-	-
Other..(Final yr. student, undergraduate, Computer Instructor,)	5	17.85%
Total	28	100%

Table 3.2: Workshop on Impact on Climate Change on Food, Water and Environment

Type of profession	Number	Percentage
River basin organization/ water manager		
Academics/ researcher	6	21.42%
Policymaker/ Executive level officer	11	39.28%
Technical / social / government officer	11	39.28%
NGO official		
Journalist		
Community members		
Other..(Final yr. student, undergraduate, Computer Instructor,)		
Total	28	100%

Table 3.3: Water Professionals Day Symposium

Type of profession	Number	Percentage
River basin organization/ water manager	4	4.17
Academics/ researcher	56	58.33
Policymaker/ Executive level officer	27	28.13
Technical / social / government officer	4	4.17
NGO official	1	1.04
Journalist		
Community members		
Other..(Final yr. student, undergraduate, Computer Instructor,)	4	4.17
Total	96	100%

Table 3.4:Cap-Net – PGIA Junior Water Awards 2015

Type of profession	Number	Percentage
River basin organization/ water manager		
Academics/ researcher	7 (Teachers)	14%
Policymaker/ Executive level officer		
Technical / social / government officer		
NGO official		
Journalist		
Community members		
Other..	43 (School Children)	86%
Total	50	100%

6. Assessment of network management

The assessing of network management was discussed mainly at the Core Group Meeting held in July 2015. As mentioned in various sections in this report, there were constraints in regular communication with the membership. It is expected to rectify this problem in year 2016 and the proper assessment would be made using the MELP tool 5.

Only two activities were assessed using MELP tool and the report has already been forwarded to CapNet by the MELP Coordinator, Prof. M.I.M.Mowjood.

7. Financial report

The following table shows the financial summary for year 2015. US \$ 7000 was received in April 2015 for the network management. Out of this only US\$ 960.99 is remaining as a balance at the beginning of December 2015.

To conduct four activities only US\$ 2200 was received as an advance from the CapNet. Therefore, a total of US\$ 3065.24 is due from the CapNet to settle the accounts.

For the details of expenditure, the following financial statements are annexed.

Annex 6.1: Financial Statement for Network Management

Annex 6.2: Training Programme on Integrated Water Resources Management for Officials in the Northern Province in Sri Lanka

Annex 6.3: Workshop on Impact on Climate Change on Food, Water and Environment

Annex 6.4: Water Professionals Day Symposium

Annex 6.5: Cap-Net – PGIA Junior Water Awards 2015

Table 4. Fund disbursement of Cap-Net Lanka during 01-01-2015 to 30-11-2015

		Received Funds (USD)	LKR
1	Network Management (contract Ref: 200215/00075517 PGIA)	7000	926,660.00
	Expenditure		799,483.66
	Balance Remaining		127,176.34
			(US\$ 960.99)
2	Activities		
	<i>Capacity Development</i>		
2.1	Training workshop on impact of climate change on water, food and environment		
	Expenditure		71,300.00
2.2	Training programme in Integrated Water Resources Management for officials in the northern province of Sri Lanka	2200	286,000.00
	Expenditure		336,553.78
	Balance Required		50,553.78
3	<i>Strengthening Partnership</i>		
3.1	National Symposium on Water Professionals' Day 2015		
	Expenditure		138,726.25
3.2	Cap-Net Lanka - PGIA Junior Water Awards – 2015		
	Expenditure		145,196.00

Total Expenditure for Activities only	Rs	405,776.03
Total Reimbursements to be made by CapNet to settle the accounts for Activities in USD		3,065.24

8. Work plan for the coming period.

The activities proposed and the respective budget are given in Table 5.

Table 5. List of proposed activities and budget of CapNet Lanka in year 2016

No	Activity	Budget (US\$)
2.1 Knowledge Management		
2.1a	Water professional Day – 2016	3000.00
2.1b	CapNet Lanka – PGIA Junior Water Award 2016	3000.00
2.1c	Young water professionals symposium	6000.00
2.1d	Symposium on ground water availability and management in the dryzone of Sri Lanka	5000.00
2.2 Knowledge Delivery		
2.2a	Training programme in Integrated Water Resources Management for official in the northern province in Sri Lanka	7000.00
2.2b	Training Workshop on Impact of Climate Change on irrigated agriculture and possible adaptation measures	2500.00
2.2c	Training workshop on Rainwater harvesting to cope with the Impact of Climate Change on Water Resources	2500.00
2.2d	Training workshop on Shallow groundwater use in the dry and intermediate zones and the consequent health hazards with possible adaptation measures	2500.00
2.2e	Capacity development of farmer leaders in medium irrigation schemes empowering them on participatory decision making	5000.00
2.3 Network strengthening		
2.3a	Website maintenance and update	800.00
2.3b	Network office support, visibility and MELP	17000.00
Grand Total		54300.00

2.1) Knowledge Management

Activity 2.1a: Water Professionals' Day-2016

The Water Professionals' Day Symposium was initiated in October 2003 to facilitate and promote water resources research in Sri Lanka. Subsequently, symposia for Water Professionals were organized at Peradeniya every year on October 01. These symposia provided a platform for the researchers to disseminate research information and promote dialog among stakeholders in the water sector in Sri Lanka. It was evident that these symposia have been an incentive to develop innovative and multi disciplinary research in water and related sectors in Sri Lanka. As per the strategy of CapNet, this year symposium would be dedicated to bring together new technological developments in water resources management.

Objectives	To provide a common platform to the researchers, professionals and students in the water sector to present their research findings on new technological developments in water resources management to a wider audience
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Participants	More than 100
Period	10/01/2015
Budget	US\$ 3000
Collaborators	PGIA, GISSL
Output	Proceeding- Water Resources Research in Sri Lanka
Coordinator	Dr. N.D.K. Dayawansa

Activity 2.1b: CapNet Lanka – PGIA Junior Water Award 2016

Cap-Net Lanka has initiated and held a competition in 2015 among the school children in order to get them interested in addressing water management issues in their own schools/surrounding their environment. After a review, the best 3 schools were awarded with Cap-Net Lanka PGIA Junior Water Awards in front of large number of gathering on water professionals' day on 1st October 2015.

Encouraged by the huge response, from students, teachers and water professionals, it was decided to organize the event in 2016 as well with a wider coverage. CapNet-Lanka is expected to take a more proactive role in technically supporting the students and teachers to undertake various innovations in order to resolve their water management issues.

Objectives	To explore the young minds in water resources management by encouraging and motivating the school children to take initiatives to resolve water management issues around their own environment.
Participants	More than 100
Period	February to October 2016
Budget	US\$ 3000
Collaborators	PGIA and Private Sector
Output	Trained school children and teachers in new technologies in water resources management
Coordinator	Prof. M.I.M.Mowjood

Activity 2.1c: Young Water Professionals Symposium

Young water professionals have limited opportunities to present their innovations, achievements or initiatives, discuss and receive the feedback from the veterans in the relevant field, colleagues and peer groups of in the water sector. To fill this gap, SLWP organized a national symposium in 2012, which turned to be a very successful event. New young group has emerged after 3 years of this event and now it is high time to organize the 2nd symposium of the same nature to open up a similar forum for young professionals to share their experience, new knowledge and current technology. Therefore, it is timely to compile the information and knowledge available and disseminate it among wider audience. SLWP with it's partners plan to organize a national symposium to realize the above target.

Objectives	To share experience, innovations and achievements of young professionals in water sector and discuss the latest technology in the related fields.
Participants	200
Period	September 2016
Budget	US\$ 6000
Collaborators	SLWP
Output	Documented technical papers of the experience of young water professionals. All the technical papers and the proceedings of the symposium will be produced in the form of a sectional volume
Coordinator	Ms BadraKamaladasa

Activity 2.1d: *Symposium on groundwater availability and management in the dry zone of Sri Lanka*

Owing to the unpredictable nature of rainfall within and between years, farmers in the dry zone of Sri Lanka in particular, look for dependable source of water for irrigation. Over the past three decades, groundwater has been seriously considered as a viable source for supplementary irrigation in the dry zone. Consequently, new knowledge has evolved on the type aquifers present and characteristics of the aquifers including groundwater availability, and sustainable management of groundwater for various uses. Parallel to this, related issues such as groundwater quality and related health issues also have been researched extensively. Therefore, it is timely to compile the information and knowledge available and disseminate it among wider audience.

Objectives	To disseminate the latest information available on groundwater availability and management, and related issues in Sri Lanka among targeted audiences.
Participants	75 (25 participants + 50 observers)
Period	June 2016
Budget	US\$ 5000
Collaborators	PGIA
Output	Information and knowledge recently acquired within the country on groundwater availability and management is disseminated among students, researchers and practitioners. Proceedings of the symposium will be produced in the form of an edited text book
Coordinator	Dr. S. Pathmarajah

2.2) Knowledge Delivery

Activity 2.2a: Training programme in Integrated Water Resources Management for officials in the Northern Province in Sri Lanka

There are emerging problems associated with water resources planning, development and management in the Northern Province with the accelerated development work after the end of conflict. Integrated water resources management is one of the approaches in order to address these complex issues. In this context, it is vital to impart new knowledge to those who are working in the water and associated sectors in the Northern Province. With this objective, a five day residential training programme was organized and held September 2015 by the Faculties of Engineering and Agriculture of University of Jaffna and Postgraduate Institute of Agriculture, University of Peradeniya. The training programme is fully sponsored by the CapNet-Lanka and WASO Project.

The above training programme was held for 30 officials of the Northern Province of Sri Lanka. In addition to the concept of Integrated Water Resources Management, the participants were provided with the latest information with regard to the issues that they are facing at present by the resource persons. These issues were further discussed during the field trip and the group works. The strategies to resolve the issues were formulated during the last day of the training programme. It was decided to continue this programme in year 2016 as well in view of the higher demand for capacity development in the Northern Province.

Objectives	Capacity development in Integrated Water Resources Management for officials in the war affected areas.
Participants	Officials in water sector and associated agencies in the northern province
Period	Five Days
Time	April 2015
Budget	US\$ 7000
Collaborators	WASO Asia Project of the Faculties of Engineering and Agriculture, University of Jaffna, CapNet-Lanka of Postgraduate Institute of Agriculture, University of Peradeniya.
Output	Officials with their capacities developed in IWRM
Coordinator	Drs. S Sivakumar and M.Thushyanthi

Activity 2.2b: Training Workshop on Impact of Climate Change on irrigated agriculture and possible adaptation measures

Rice, being the staple food and cultivated under flooded conditions, requires an abundant supply of water. Farmers cultivate paddy during both *maha* and *yala* seasons and other field crops when there is insufficient water for paddy cultivation as informed by the Irrigation Department prior to each season. Very often rainfall satisfy only a fraction of the water requirements for a double-cropped rice harvest and the

rice fields of these areas are therefore heavily dependent on supplementary irrigation from tanks and reservoirs.

Climate change impacts on water resources in the country affect the major and minor irrigation systems managed by the irrigation department. Therefore technical and higher level officers of the Irrigation Department must be aware about the climate change impacts in the future and therefore plan how to distribute the storage water in the major and minor reservoirs among different stakeholders on priority basis. Agriculture, especially crop production, is highly sensitive to both short and long-term changes in climate. Smallholder farmers are particularly vulnerable to changes in the climate that reduce productivity and affect their weather-dependent livelihood systems negatively. Therefore it is essential to make the technical and higher level officer of the irrigation and water resources sector to be aware of the climate change impacts on water for irrigation in future and possible adaptation measures to cope with the situation. This training workshop will focus on the climate change impacts on water resources and possible adaptation measures for agricultural and water distribution activities so that limited available water could be shared among stakeholders in efficient and sustainable manner.

Objectives	To disseminate the knowledge on climate change impacts and its adaptation measures among technical and front-line officials in the irrigation Department. To provide a forum for individuals to share the knowledge gain To identify the way forward activities on research, training etc.
Participants	Technical and Front line officers from the Department of Irrigation.
Period	October 2016
Duration	Two days
Budget	US\$ 2500.00
Collaborator/s	Cap-Net Lanka, PGIA/University of Peradeniya, Irrigation Department, The Open University of Sri Lanka
Output	Training approx. 25 participants <ul style="list-style-type: none"> • Knowledge sharing, • Establish coordination mechanism, • Identify research areas on climate change
Coordinators	Prof C. Shanthi de Silva and Eng (Ms) JanakiMeegasteena

Activity 2.2c: Training workshop on rainwater harvesting to cope with the impact of climate change on water resources

People in the dry and intermediate zones mainly depend on groundwater for domestic and agricultural purposes. In most of these areas Agro wells are the sole source of water for rural communities. Therefore these communities are depend on

Agro well water for domestic and irrigation purposes even though the Agro wells are constructed only for supplementary irrigation purposes and found to be not suitable for drinking purposes as it wash off salts and irons in the soil zone during wet season as shallow groundwater. With the unlimited use of fertilizers and agro chemical and the consequent leaching, the shallow groundwater become not suitable for domestic purposes. This problem will be aggravated by climate change impacts on water resources. In this context, rainwater becomes a much better option compared to groundwater.

Therefore, it is important to educate the community on the importance of rainwater harvesting and the related health issues. Each year the Government of Sri Lanka spends huge amount of funds only for drought relief services. If the communities are educated properly they could be training on proper way of harvesting and storing the rainwater during wet season to be used in drought period. Therefore it is essential to make the community based officers aware of these climate change impacts and how to cope or adapt with the situation. This workshop will mainly focus on climate change impacts on water resources and the importance of rainwater harvesting in rural and urban areas. This will enable them to disseminate the knowledge they gained through this workshop to the communities to face the climate change impacts.

Objectives	To disseminate the knowledge on climate change impacts on water resources and rainwater harvesting as an adaptation measures among front-line officials in the water sector, representatives of water supply schemes and community based officers.
Participants	Technical and Front line officers from the National Water Supply and Drainage Board (NWSDB), Central Environmental Authority (CEA) - Central province, Disaster Management Center (DMC) –Kandy district, Department of Irrigation, Department of Agrarian Services Department, Department of Irrigation.
Period	May 2016
Duration	Two days
Budget	US\$ 2500.00
Collaborator/s	Cap-Net Lanka, PGI/University of Peradeniya, Lanka Rain water Harvesting Forum(LRWHF), Ministry of Environment, The Open University of Sri Lanka
Output	Training approx. 25 participants <ul style="list-style-type: none"> • Knowledge sharing, • Establish coordination mechanism, • Identify research areas on rain water harvesting
Coordinators	Prof C. Shanthi de Silva and Dr TanujaAriyananda (LRWHF)

Activity 2.2d: Training Workshop on Shallow groundwater use in the dry and intermediate zones and the consequent health hazards with possible adaptation measures

As an option to the ever- increasing water demand, use of shallow groundwater for cultivation was thought as an alternative. In order to exploit the shallow groundwater for supplementary irrigation, agro wells are been used. Since then the number of agro wells have been increased at a steady rate. According to the recent estimates there are over 100,000 such agro-wells scattered across the intermediate and dry zones of Sri Lanka. Main reason behind this proliferation is that the Agro well become household asset and several subsidies and grants were given by the government and nongovernmental organizations since late 80s. Currently out of every 10 households at least 7 or 8 households have their own agro wells.

At present chronic Kidney disease of unknown etiology is a major health issue, which needs to be attended seriously and have to find a remedial measure to safeguard the rural poor in the dry and intermediate zones. Number of studies has presented a multitude of factors identified as the cause but there is no conclusive evidence to prove the real cause. However, water has been identified as a major causative reason for this problem. It is also noted that the people in these regions use agro well water for domestic purposes as they do not have alternative source of drinking water and the disease incidence increased with increase in number of Agro wells. Therefore this workshop is designed to train the officers in the water sector on understanding the shallow ground water use, its quality deterioration and possible adaptation measures to overcome the problem

Objectives	To disseminate the knowledge on shallow groundwater use, understanding its potentials and weakness with possible adaptation measures among technical and front-line officials in the irrigation Department.
Participants	Technical and other officers of the Water sector involved in shallow groundwater use related activities
Period	September 2016
Duration	Two days
Budget	US\$ 2500.00
Collaborator/s	Cap-Net Lanka, PGIA/University of Peradeniya, International Water Management Institute, The Open University of Sri Lanka
Output	Training approx. 25 participants <ul style="list-style-type: none"> • Knowledge sharing, • Establish coordination mechanism, • Identify research areas on climate change
Coordinators	Prof C. Shanthi de Silva and Dr H. Mathrithileke (IWMI)

Activity 2.2e: Capacity development of the farmer leaders in medium irrigation schemes empowering them on participatory decision making

The purpose of the project is to develop the capacity of the farmer leaders of mediums irrigation schemes through series of workshops enabling them to participate in the Project Committee Meetings (PMC) with confidence where all the decisions on project management are taken. Usually it is the farmer leaders in major schemes who will get opportunity in participating the training for their capacity development and very rarely FO leaders in medium schemes receive sufficient exposure for them to update on current policies, work strategies and techniques.

Objectives	To provide a platform for farmer leaders to learn, discuss, clarify and understand the current and most updated technology, skills and mechanism needed in management of irrigation schemes and also have interaction with government officials.
Participants	200 (40 participants @ 05 workshops)
Period	January- June 2016
Budget	US\$ 5000
Collaborators	SLWP
Output	Participants of the workshop will acquire communication skills and enhanced knowledge on partnership building, institutional set ups in irrigated agriculture and updated technological options on agriculture & water management. Reports of each workshop with the evaluation of the participants will be submitted after each workshop
Coordinator	Ms BadraKamaladasa

2.3) Network Strengthening

Activity 2.3a: Website maintenance and update

New web site for Cap-Net Lanka was developed in 2013 and frequent updating will be done in coming years with reports and other information for the benefits of the members and general public. Number of visitors and downloads will be monitored.

Objectives	To disseminate activities, findings, lesson learn etc., among the local, regional and global members and stakeholders
Participants	Network members and stakeholders
Period	January - December
Budget	US\$ 800
Collaborators	PGIA
Output	Dissemination of activities to members and general public
Coordinator	Prof. E.R.N.Gunawardena Administrative Assistant

Activity 2.3b: Network office support and MELP

The network management, transparency and governance have been identified as a key area to be improved during the core group meetings. Strategic plan, communication with members, documentation, finances and improvement in website are some of the key areas to be improved. Therefore, a separate office space for network support will be maintained. Participation for visibility events will help in achieving a better networking and strengthening of the Cap-Net Lanka in the water sector. Monitoring, evaluation, learning and practice will be carried out for activity to find out strengths and weakness.

Objectives	To strengthen the net work among the local, regional and global members and stakeholders
Participants	Network members and stakeholders
Period	February – December
Budget	US\$ 15000 + US\$ 2000 [for MELP 400 US\$/activity]
Collaborators	PGIA
Output	Strategic planning, increased efficiency, accountability, effective networking, proper documentation
Coordinator	Prof. E.R.N.Gunawardena, Prof. M.I.M.Mowjood& Administrative Assistant

9. Conclusion

Irrespective of many constraints, as explained in the report, CapNet Lanka was able to undertake 5 activities which help to build capacity of various stakeholders totalling to 202 representing almost all the sectors working on water resources management. The new knowledge disseminated among the trainees would undoubtedly contribute to their day to day activities in their respective organizations. It is expected to capture this impact during the MELP programme to be implemented in year 2016. The network was strengthened with the addition of new members and reviewing the progress made during the next years through the core group meeting.

As discussed during the Annual Network Managers meetings of 2015, held in Cartagena, Colombia, CapNet-Lanka is intended to make an emphasis on using the updated communication systems to keep an effective communication with the membership and organize activities to introduce the new technologies to improve the water resources management.