

Photos cover page; clockwise, starting in the upper left:

1. A women showing a Bluebox to a group of children as part of the social enterprise Sanivation supported by Via Water (project nr. 103.881)
2. Example of use of Water Accounting services for water and agricultural management in the Mara Basin (2014) created by Water Accounting+ (project nr. 106.348)
3. A group session in the participatory tools workshop October 2016 in Ho Chi Minh City part of the NWO UDW Strategic delta planning project (credits: Clim Sorée van Bosch+Slabbers) (project nr. 104.522)
4. An irrigation canal and fruit tree orchard at a local farm in the Bekaa Valley in Lebanon (Water Intelligence for the Near East project; nr. 106.536)

DGIS – UNESCO-IHE PROGRAMMATIC COOPERATION Phase 2016 - 2020

(DUPC2)

Annual Plan 2017

(DGIS Activity nr. 28325 / DME0121369)

November 2016

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Acronyms

AP	Annual Plan
BEWOP	Boosting the Effectiveness of Water Operator's Partnership
CIE	DUPC2 Committee Members
DGIS	Directorate-General for International Cooperation
DUPC2	DGIS UNESCO-IHE Programmatic Cooperation Phase 2
EKN	Embassy of Kingdom of the Netherlands
GWOPA	Global Water Operators' Partnerships Alliance
IATI	International Aid Transparency Initiative
MER	Monitoring, Evaluation and Reporting
NBCBN	Nile Basin Capacity Building Network
OCW	Open Course Water
SDI	Spatial Data Infrastructure
SIWI	Stockholm International Water Institute
UN	United Nations
WA	Water Accounting
WWF	World Wildlife Fund
WOP	Water Operator's Partnership

Executive summary

Program context

The programmatic cooperation between the Directorate-General for International Cooperation (DGIS) of the Dutch Ministry of Foreign Affairs and UNESCO-IHE, also called the DGIS UNESCO-IHE Programmatic Cooperation (DUPC), has entered its second phase. December 2015 DGIS awarded a Grant of 24,145M Euro to UNESCO-IHE for the second phase of the programmatic cooperation, registered at the Ministry under Activity Number nr. 28325 / DME0121369. The basis for the allocation is a Grant Application by UNESCO-IHE, dated 20 November 2015.

The goal of DUPC2 is to provide tangible contributions in solving water and development challenges worldwide, by equipping people and organisations through sustained and strengthened partnerships with southern and transition countries. This goal is supported by four inter-related programme components, each having their own expected outcomes: Education and Training, Research and Innovation, Knowledge sharing and Networks, and Management and Learning. Each component consists of activities targeting the DGIS/DUPC countries and regions and one or more of the following themes:

- Efficient water management, particularly in the agricultural sector
- Improved catchment area management and safe deltas
- Access to clean drinking water and basic sanitation
- Water diplomacy

The DUPC2 programme pays specific attention to activities addressing water scarcity and water problems related to the refugee crisis in the Middle East. Cross-cutting agenda items are water governance, gender and inclusiveness and climate change.

Strategic objectives of the Activity Plan 2017

The first year of DUPC2 implementation focussed on internal organisation, involvement of southern partners, communication and the identification of first activities through Calls. DUPC2 is now entering its second year. Based on first year experiences, the Annual Plan proposes adjustments to the DUPC2 logical framework, and identifies a number of strategic objectives for 2017 which are reflected in the planned activities for 2017 and are presented below per component.

Education and Training and Research and Innovation components (sections 4 and 5)

- Continue implementing the process of identifying, selecting, facilitating project ideas under outstanding Calls, implement the 2017 Education and Training Call and Research Outreach Call, and possibly a second Call for South-South research collaboration. Further support participation of southern partners in these Calls.

Knowledge Sharing and Networks and Management and Learning components (sections 6 and 7)

- Continue supporting the process of creating synergies between projects at thematic and regional level, and strengthen their outreach and communication. An example are the efforts made to come to a coherent set of projects addressing water scarcity Middle East.
- Identify and plan activities at programme level to strengthen the quality of and connectivity in the partnership, through e.g. training, workshops, south-south learning and knowledge management. Support projects in better achieving and capturing societal impact through methodological innovations and knowledge sharing and learning events. A plan for the partnership activities will be developed in the first quarter of 2017.

- Refine impact indicators at programme level (logical framework), also based on indicators identified at activity level. Conduct pilots aiming at improved capturing of the programme’s outcomes and impacts.
- Develop a pilot on knowledge management to share and better communicate knowledge and experiences, and present the partnership, its outputs and impact.
- Continue developing a professional project planning and reporting system, integrated with the MER protocol. Investigate best ways to link and / or integrate DUPC2 databases with the Institute’s systems. Participate in the IATI/AKVO pilot to learn about online reporting and communicating of projects and their impacts.

Water diplomacy theme (Sections 4 and 6; Box 1)

- Further development and positioning of the water diplomacy theme. A detailed water diplomacy plan and budget will be submitted to DGIS before March 1st 2017, in view of the proposed actions and other ideas under discussion.

The strategic objectives are aligned with the UNESCO-IHE 2017 Workplan.

Adjustments proposed to the DUPC2 logical framework and budget

The review and improvement of the programme’s logical framework ¹ is an ongoing process running parallel to the gradual development and implementation of the programme. Related to programme’s activities and budgets the following changes are proposed.

Component	Result, activity	Change proposed	‘free’ budget	Allocation of ‘free’ budget
Education and Training	Increase the quality of existing joint MSc programmes (Result 2, Activity 2)	Reduce budget with 410,000 Euro (150,000 Euro remains)	410,000 Euro	150.000 Euro for water productivity training 260,000 Euro to new budget line
	Increase quality of joint edu programmes by supporting joint supervision of MSc research fieldwork (Result 2, Activity 3)	Cancel activity	300,000 Euro	300,000 Euro to new budget line
Research and Innovation	Conduct research on knowledge management and capacity development (Result 2. Activity 1)	Cancel activity	490,000 Euro	490,000 Euro to new budget line
TOTAL			1,200,000 Euro	1,200,000 Euro
		New budget line for activities to be decided later on		1,050,000 Euro

¹ Proposal DGIS UNESCO-IHE Programmatic Cooperation 2016-2020 - DUPC 2, Solving water and development challenges worldwide by equipping people and organisations and strengthening partnerships, UNESCO-IHE, 20 November 2015.

Activities in 2017

The table below presents the status of the DUPC2 projects. Details per project are provided in the main text of the Annual Plan. Selected projects are highlighted in boxes.

Component	Running projects (RUN)	Projects in preparation (PIP)	Activities planned (PRO) ²	Projects ended (END)	Total
Education and Training	8	2	4	0	14
Research and Innovation	18	2	3	0	23
Knowledge sharing and Networks	10	2	3	1	16
Management and Learning	3	0		0	3
Total	39	6	10	1	56
Out of which projects with key focus on:³					
Water Diplomacy	6	1	To be decided	0	7
Water Scarcity Middle East	5	4	At least 1	0	10

Budgets

The total DUPC2 budget commitments (in grant letters or contracts; most multi-year commitments) at the end of 2016 are expected to be around 13,5M Euro, which is about 56% of the total DUPC2 approved budget (24,145M Euro). 10,6M Euro is not yet committed. The total estimated project budget in of these committed activities in the IHE administration at the end of 2016 is 19,3M Euro (not shown in table), which implies an estimated co-funding of 5,8M Euro.

The estimated programme expenditure at the end of 2016 is 1, 89M Euro, which is 43% of the DUPC2 approved 2016 budget available (4,4M Euro; DGIS grant letter). The 2017 budget required to implement the planned activities is an estimated 5,4M Euro.

² Most numbers indicate budgets of activities planned to identify projects, for instance by means of Calls.

³ Excluded in the table are projects who address the themes, but not as a main theme.

Table. DUPC2 budget commitments (situation 2 November 2016), and estimated expenditures 2016 and 2017 per DUPC2 component (in Euros).

DUPC2 component (logical framework)	DGIS approved budget DUPC2 (2016 - 2020) ⁴ (1)	DUPC2 budget commitments (grant allocations issued) (2)	Balance in DUPC2 grant: budget not yet committed (3) = (1) - (2)	Estimated DUPC2 expenditure 2016 ⁵ (4)	Estimated DUPC2 expenditure 2017 (5)	Balance in DUPC2 grant: expenditure (6) = (1) - (4) - (5)
Education and Training	3,750,000	1,329,949	2,420,051	226,108	961,337	2,562,555
Research and Innovation	9,949,626	6,543,001	3,406,625	632,019	2,444,912	6,872,695
Knowledge sharing and Networks	7,795,374	4,031,980	3,763,394	830,998	1,499,250	5,465,126
Management and Learning	1,600,000	1,600,000	0	202,918	255,058	1,142,024
'Free' budget (Section 3.2)	1,050,000	0	1,050,000	0	240,000	810,000
Total	24,145,000	13,504,930	10,640,070	1,892,043	5,400,557	16,852,400

⁴ DGIS approved budget DUPC2 is adjusted compared to grant letter; see Section 3.2.

⁵ For 2016 the figures are based on a best estimate extrapolated from actual expenditures as per 2 November 2016.

1. Introduction

1.1 Program context

The programmatic cooperation between the Directorate-General for International Cooperation (DGIS) of the Dutch Ministry of Foreign Affairs and UNESCO-IHE, also called the DGIS UNESCO-IHE Programmatic Cooperation (DUPC), has entered its second phase. December 2015 DGIS awarded a Grant of 24,145M Euro to UNESCO-IHE for the second phase of the programmatic cooperation, registered at the Ministry under Activity Number nr. 28325 / DME0121369. The basis for the allocation is a Grant Application by UNESCO-IHE, dated 20 November 2015, which is the main reference for identifying activities⁶.

The goal of DUPC2 is to provide tangible contributions in solving water and development challenges worldwide, by equipping people and organisations through sustained and strengthened partnerships with southern and transition countries. The DUPC2 approach is briefly explained in Section 2. DUPC2 is aligned with and supports the UNESCO-IHE strategy 2015-2020.

DUPC2 applies a monitoring, evaluation and reporting (MER) protocol to guide implementation of the programme and contribute to internal learning amongst UNESCO-IHE and partner organizations⁷. Annual planning is an explicit part of the protocol. The Annual Plan 2017 presents the main planned activities at programme level for 2017, and an estimation of the accompanying budget and expenditure to implement these activities.

1.2 Reading guide

Chapter 2 presents the DUPC2 approach in terms of its goal, components, focus themes and regions, identification of activities and monitoring and evaluation.

Chapter 3 provides a brief report of the DUPC2 implementation in the first year (2016). Based on the first year experiences adjustments are proposed to the logical framework, and implications indicated for the Activity Plan 2017.

Chapters 4 to 7 present the DUPC2 activities planned for the year 2017. This is done per DUPC2 component: Education and Training (Chapter 4), Research and Innovation (Chapter 5), Knowledge Sharing and Networks (Chapter 6) and Management and Learning (Chapter 7).

Chapter 8 presents the DUPC2 expenditures and allocation for 2017.

DUPC2's objectives and results as stated in the logical framework, and integrated with the 4 programme components, are presented in Appendix 1. The planning of the 2017 activities is presented in Appendix 2, and the status of their funding in Appendix 3.

⁶ Proposal DGIS UNESCO-IHE Programmatic Cooperation 2016-2020 - DUPC 2, Solving water and development challenges worldwide by equipping people and organisations and strengthening partnerships, UNESCO-IHE, 20 November 2015.

⁷ Monitoring, evaluation and reporting protocol DUPC2, UNESCO-IHE, August 2016.

2. The DUPC2 approach in brief

The goal of the DUPC2 programme, is to provide tangible contributions in solving water and development challenges worldwide, by equipping people and organisations through sustained and strengthened partnerships with southern and transition countries.

The new phase of the partnership programme focusses more strongly on achieving tangible impacts on the ground. Sustained and strengthened partnerships, engaging in partnerships including civil society, NGOs, private sector and government, supporting water innovations, improved cohesion and synergy between project activities at regional and thematic levels, and communication to various audiences, are some of the principles through which we want to accomplish this. Sustainable partnerships will be achieved by strengthening existing capacity of developing and transition countries' education and research institutions. The aim is to provide innovative education and training for increasing numbers of professionals, as well as to conduct problem based, solution driven research to inform policy and practice in each country. To accomplish this, sustainable partnerships will need to interact effectively and include a broad variety of actors. The desired outcome is being better equipped to better articulate and address local demands, create opportunities to use and scale up outcomes including innovations, leading to real impacts on the ground.

This goal is supported by four inter-related programme components, each having their own expected outcomes: Education and Training, Research and Innovation, Knowledge sharing and Networks, and Management and Learning (Appendix 1). Each component consists of activities targeting the DGIS/DUPC countries and regions and one or more of the following themes:

- Efficient water management, particularly in the agricultural sector
- Improved catchment area management and safe deltas
- Access to clean drinking water and basic sanitation
- Water diplomacy

The DUPC2 programme pays specific attention to activities addressing water scarcity and water problems related to the refugee crisis in the Middle East. Cross-cutting agenda items are water governance, gender and inclusiveness and climate change.

The above-mentioned principles guide the identification and implementation of activities, mainly identified through open Calls.

The coordination of the implementation of DUPC2 is carried out by the DUPC committee consisting of five UNESCO-IHE staff members and three regional committee members representing Africa, Asia and Latin America. The DUPC committee is responsible for the strategic direction and implementation of the DUPC2 programme. The DUPC committee is chaired by the DUPC coordinator, who is also responsible for implementation of the programme with this he is supported by two programme support staff.

The DUPC committee monitors the implementation of the programme, as well as achieving the expected outputs and outcomes. For this purpose a monitoring, evaluation and reporting (MER) protocol is applied, based on the programme's Logical Framework (Appendix 2). MER ensures accountability for the production of quality outputs, ensures that ongoing activities are responsive to what is working or not, and maximizes the cost-effectiveness. Moreover, it contributes to internal learning amongst UNESCO-IHE and partner organizations and facilitates a process in which impact strategies are strengthened and indicators are defined measuring progress and impact in different local contexts.

3. Strategic objectives of the Activity Plan 2017

This section starts with a brief summary of DUPC2 progress achieved in the first year. Based on experiences gained, adjustments are proposed to the logical framework (section 3.2), and strategic objectives for the Activity Plan 2017 identified (section 3.3).

3.1 DUPC2 progress achieved so far

Below a brief summary of DUPC2 progress achieved in the first year, which will be further detailed in the DUPC2 Annual Report 2016.

- Organisation of the programme has been set-up, including the DUPC committee.
- A monitoring, evaluation and reporting (MER) protocol guiding implementation has been developed and applied⁸.
- A DUPC2 communication plan is developed and applied.
- Activities part of DUPC1 and continuing under DUPC2 are running.
- New activities are identified in open Calls.
- A note on how DUPC2 addresses the water scarcity Middle East theme has been developed and has guided the development of four 2-year projects⁹.
- A position paper on water diplomacy 2016-2020 is under development, which will guide the development of the theme and use of the funds available¹⁰.
- Project proponents produced impact and innovation strategies as explicit part of proposals. The programme facilitates projects in strengthening capacities to implement such strategies and related approaches, also by creating a learning environment.
- In early November 2016 a total of 39 projects are running (having either a grant allocation letter or a contract in case of external parties), and six activities are in preparation (Table 1). The first external review of DUPC2, as part of the grant conditions, took place in October.

Table 1. DUPC2 project status on 31 October 2016.

Component	Running projects (RUN)	Projects in preparation (PIP)	Activities planned (PRO) ¹¹	Projects ended (END)	Total
Education and Training	8	2	4	0	14
Research and Innovation	18	2	3	0	23
Knowledge sharing and Networks	10	2	3	1	16
Management and Learning	3	0		0	3
Total	39	6	10	1	56
Out of which projects with key focus on:¹²					
Water Diplomacy	6	1	To be decided	0	7
Water Scarcity Middle East	5	4	At least 1	0	10

⁸ Monitoring Evaluation and Reporting Protocol DUPC2, August 2016

⁹ Contribution of the DUPC2 program to solve water scarcity and water problems related to the refugee crises in the Middle East in 2016 and 2017, 31 March 2016

¹⁰ Water Diplomacy Manifesto (draft), July 2016, UNESCO-IHE

¹¹ Most numbers indicate budgets of activities planned to identify projects, for instance by means of Calls.

¹² Excluded in the table are projects who address the themes, but not as a main theme.

3.2 Adjustments proposed to the logical framework and budget

The review and improvement of the programme's logical framework is an ongoing process running parallel to the gradual development and implementation of the programme. In general, this relates to two items: 1) activities addressing outcomes, and their budgets and 2) outcomes, outputs and their indicators. Both items, and adjustments proposed, will be addressed below.

3.2.1 Activities addressing outcomes and budget

In this section first changes proposed in two programme components will be presented, after which allocations of budget available through these changes will be proposed.

Proposed changes Education and Training component

- Result 2, Activity 2. This activity aims to increase the quality of existing joint MSc programmes. As most of these programmes received DUPC funding in former years, it is realistic to expect updates needed to be largely funded by the institutes themselves.

The proposal is to keep 150,000 Euro for this facility to have limited funds available to support existing joint MSc programmes if needed, and ensure their continuation, and to re-allocate the remaining 410,000 Euro to other destinations (see further).

- Result 2, Activity 3: This activity aims to increase the quality of existing joint educational programmes by supporting joint supervision of MSc research fieldwork. In practice there appears to be limited demand for this facility.

The proposal is to cancel this specific activity in the logical framework and re-allocate the available funds (300,000 Euro).

Proposed changes Research and Innovation Component

- *Result 2. Activity 1.* This is a facility to conduct research on knowledge management and capacity development. Although very important, this subject is addressed in a more practical manner through the knowledge sharing and learning events amongst projects and partners e.g. by means of the activities of the Knowledge sharing and Networks component, and not through a specific research activity.

The proposal is to cancel this specific activity in the logical framework and to re-allocate the available funds (490,000 Euro).

Proposed destination of 'free' budget

Based on the above-mentioned proposed changes a total of 1,200,000 Euro would be available for other purposes.

- The proposal is to use part of this 'free' budget (150,000 Euro) for a water productivity database training for DGIS focus countries in Africa and Middle East (Education and training component). A detailed plan and budget will be developed by UNESCO-IHE in consultation with DGIS. This option is already included in this annual plan as a prospect project (Section 4, Table 2).
- The proposal is to allocate the remainder of the 'free budget' (1,050,000 Euro) to a separate budget line for activities to be decided later on in consultation with DGIS. This budget line is

included in the annual plan; see the tables of Section 8 Budget. Possible options for budget allocation include:

- Additional resources for south-south research projects (Research and Innovation Result 1 Activity 2) as an attractive, southern led, approach of addressing water and development challenges with specific focus on the Middle East.
- Additional resources for new education products (Education and Training Result 1 Activity 1), in particular with focus on e- and continuous learning. The 2016 Education and Training Call showed a substantial local demand for such products that we can build on in 2017 and further.
- Resources for a new budget line for staff exchange with southern partners and UNESCO-IHE to strengthen collaboration on the joint development and strengthening of education and training.
- Additional resources for the development of the water diplomacy theme. There are various ideas which will be considered in the development of a comprehensive plan and budget to be submitted before March 1st 2017 (see Box 1 in Section 4). The basic principle is however that budget for the planned activities is covered as much as possible from the currently available DUPC2 water diplomacy budget lines.

These proposed adjustments to the original programme's logical framework are highlighted in Tables 5 and 6 of Section 8 Budget and in Appendix 2.

3.2.2 Outcomes and indicators

During the implementation of the programme we have come across the need for refinements of the programmes outcomes and indicators. External advice for improvements of the logical framework was received in June this year when the logical framework was reviewed by an independent consultant in the context of an impact evaluation workshop at UNESCO-IHE¹³. More recently the external review of DUPC2 resulted in valuable suggestions and recommendations for improvements. Also during the implementing of the online reporting pilot (IATI/AKVO; see section 7.2) we came across the need for refinements. A revision of outcomes and indicators of the Research and Innovation component is currently undertaken in close consultation with the 12 selected projects under this component (see also section 7.2).

Refinement of the programmes outcomes and indicators will be reported on in annual reports, and if needed in-between. Proposed adjustments so far to the programme's logical framework of the grant application are highlighted in Table 6 and in Appendix 2.

3.3 Strategic objectives for 2017

The first year of DUPC2 implementation focussed on internal organisation, involvement of southern partners, communication and the identification of first activities through Calls. DUPC2 is now entering its second year. Based on first year experiences, the programme has identified a number of strategic objectives for 2017 which are reflected in the planned DUPC2 activities for 2017 and are presented below per component.

¹³ Impact evaluation workshop, 28 and 29 June, UNESCO-IHE facilitated by dr. Michele Tarsilla, independent consultant.

Education and Training and Research and Innovation components (sections 4 and 5)

- Continue implementing the process of identifying, selecting, facilitating project ideas under outstanding Calls, implement the 2017 Education and Training Call and Research Outreach Call, and possibly a second Call for South-South research collaboration. Further support participation of southern partners in these Calls.

Knowledge Sharing and Networks and Management and Learning components (sections 6 and 7)

- Continue supporting the process of creating synergies between projects at thematic and regional level, and strengthen their outreach and communication. An example are the efforts made to come to a coherent set of projects addressing water scarcity Middle East.
- Identify and plan activities at programme level to strengthen the quality of and connectivity in the partnership, through e.g. training, workshops, south-south learning and knowledge management. Support projects in better achieving and capturing societal impact through methodological innovations and knowledge sharing and learning events.
- Refine impact indicators at programme level (logical framework), also based on indicators identified at activity level. Conduct pilots aiming at improved capturing of the programme's outcomes and impacts.
- Develop a pilot on knowledge management to share and better communicate knowledge and experiences, and present the partnership, its outputs and impact.
- Continue developing a professional project planning and reporting system, integrated with the MER protocol. Investigate best ways to link and / or integrate DUPC2 databases with the Institute's systems. Participate in the IATI/AKVO pilot to learn about online reporting and communicating of projects and their impacts.

Water diplomacy theme

- Further development and positioning of the water diplomacy theme. A detailed water diplomacy plan and budget will be submitted to DGIS before March 1st 2017, in view of the proposed actions and other ideas under discussion (See Box 1).

These strategic objectives are aligned with the UNESCO-IHE 2017 Workplan. An example is that the Institute in 2017 aims to bring more focus of international collaboration, distinguishing - on both sides of the continuum - between 'Flagship Partners' and mere '(project) working arrangements'.

4. Component 'Education and Training'

4.1 Expected results and approach

The objective of the component 'Education and Training' is:

To enhance, the quality of problem-oriented water and development education and training, jointly offered by UNESCO-IHE and partners as well as at partner institutes, and to increase accessibility of education and training through innovations, and upscale the successful models.

The objective is achieved through the following 3 results (for more details see Annex 1):

- Result 1. New educational products developed for uptake in existing (joint) water education and training programmes
- Result 2. Quality of training and education programmes of strategic importance enhanced, outreach and sustainability increased
- Result 3. New innovative joint training and education programmes developed

4.2 Project activities in 2017

Result 1-3

A number of activities had already been initiated in the DUPC2 grant document:

- Graduate Professional Diploma Programme on 'Delta planning and management'
- Graduate Professional Diploma Programme 'Water for food'
- New joint MSc programme 'Water Cooperation and Diplomacy' offered by UNESCO-IHE, Oregon State University and the University of Peace, Costa Rica

The last two activities already started in 2015 (under DUPC1) and continue under DUPC2 in 2017. The joint MSc programme is part of the water diplomacy theme. UNESCO-IHE will submit a detailed plan and budget for the water diplomacy theme before the 1st of March of 2017, in view of the proposed actions and other ideas under discussion to further develop and strengthen the theme (see Box 1).

New activities contributing to the three above-mentioned results have been identified through a Call for proposals, which resulted in eight proposals (see Table 2). These proposals started at the end of 2016 and will continue in 2017. A second Call for proposals is planned in the first half of 2017. The 2016 Call focussed on strengthening DUPC1 activities, the 2017 and later calls will provide add-ons as much as possible to DUPC2 running activities, to strengthen the programme's focus and cohesion. The plan is to focus these calls more specifically on facilitating and innovating e- and continuous learning.

A new activity recently planned in collaboration with DGIS is a water productivity database training for DGIS focus countries in Africa and Middle East contributing to Result 3 Activity 1 (see Box 2).

The project activities in 2017 part of the Education and Training component are listed in Table 2. A distinction is made between running projects (projects having a grant allocated and a project number), projects in the pipeline (identified, but not yet a grant allocated), and projects planned (prospects).

Table 2. DUPC2 Education and Training component – 2017 project activities (running, pipeline, prospect and ended).

Project nr	Result LogFrame	Activity (long)	Status	Partners (incl. UNESCO-IHE)	Region	Water and food	Rivers and deltas	WASH	Water scarcity ME	Water governance	Water Diplomacy	Gender/ inclusiv.	Climate change	Estimated DUPC2 expenditure 2017
106788	E&T R1 A1	E-Learning Development and Delivery for Water Professionals Indonesia	PIP	CKNet, UNESCO-IHE	South East Asia	0	1	0	0	1	0	1	1	30,000
106808	E&T R1 A1	Practical experiences with treatment of Arsenic and Iron contaminated groundwater (GWDEMO)	RUN	UNESCO-IHE, Water Authority of Jordan – WAJ (Ministry of Water & Irrigation), Birzeit University –BU (West Bank, Palestine), University Blas Pascal – UBP (Cordoba, Argentina), Public Utility Company Subotica - PUCS (Serbia)	Middle East	0	0	0	1	1	0	1	0	7,512
106794	E&T R1 A1	Training course on “Building leadership capacity to drive city-to-city learning on climate adaptation”	RUN	UNESCO-IHE, Center of Water Management and Climate Change, Viet Nam National University - Ho Chi Minh City, Asian Institute of Technology in Vietnam	Asia	0	0	1	1	1	0	1	1	7,583
0	E&T R1 A1	Education and Training Call 2017 (expected 6 * 30,000: 180k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	45,000
106537	E&T R2 A1	Desalination, Diplomacy and Water reuse in the Middle East (SCARCE)	RUN	UNESCO-IHE, Jordan Water Authority, Al-Balqa’ Applied University, University of Jordan/Aqaba campus	Middle East & North Africa	1	0	1	1	1	1	0	1	150,000
106789	E&T R2 A1	Enhancing quality and internationalisation of education in water and sanitation at the National Water Institute (INE) of Bénin	RUN	UNESCO-IHE, Institut National de l’Eau (INE), Université Abomey-Calavi (UAC), Bénin	Africa	0	1	1	1	1	0	1	1	24,090
106791	E&T R2 A1	Enhancing the Structure, Content and Outreach of the Water and Environment Masters’ Programs at Birzeit University	RUN	UNESCO-IHE, Birzeit Univ	Middle East	1	1	1	1	1	1	1	1	24,975

106810	E&T R2 A1	Strengthening Water Utility Training Centers in Uganda and Rwanda	RUN	UNESCO-IHE, Water and Sanitation Corporation , National University of Rwanda, National Water and Sewerage Corporation , Vitens Evides International, DA Services	Africa	0	0	1	0	1	0	1	0	25,103
0	E&T R2 A1	Education and Training Call 2017 (expected 4 * 100,000: 400k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	100,000
0	E&T R3 A1	Education and Training Call 2017 (expected 2 * 200,000: 400k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	100,000
0	E&T R3 A1	Water productivity training of trainers DGIS water countries in Middle East and Africa	PRO	0	0	0	0	0	0	0	0	0	0	150,000
106790	E&T R3 A1	Post-graduate professional training programme on Sustainable Delta Planning and Management	PIP	UNESCO-IHE, Delta Alliance, Delta Alliance Wings partners (focus partners in deltas in low income countries/countries in transition), TU Delft, Wageningen UR, Deltares	World wide	0	0	1	0	1	0	1	0	50,000
106793	E&T R3 A1	Graduate Professional Diploma Program on Water for Food Security	RUN	UNESCO-IHE, Brawijaya University, Ho Chi Minh City University of Technology-Vietnam, Water for Food Institute from the University of Nebraska Lincoln, USA.	East Asia	0	1	0	0	1	0	0	1	47,075
106289	E&T R3 A2	Joint MSc programme Water Cooperation and Diplomacy	RUN	UNESCO-IHE, WWF , SIWI, Knowledge institutes , OSU, UPEACE, University of Khartoum, Addis Ababa University	World-wide	0	0	0	0	0	1	0	0	200,000
TOTAL													961,337	

Notes table 2:

- Column 'status': A distinction is made between running projects (projects having a grant allocated and a project number), projects in the pipeline (identified, but not yet a grant allocated), and projects planned (prospects).

Box 1. Water diplomacy – the theme and planned activities in 2017 (project numbers 106.289 and 105.256).

Water diplomacy is one of the strategic areas addressing and resolving water problems worldwide. The Netherlands is profiling itself as a key player in this area. UNESCO-IHE, with its broad and rich in-house expertise of water diplomacy related subjects, and its partners and networks, wishes to contribute to this area. This effort is in part, supported by earmarked DUPC2 funds. During 2016, the Institute has been developing a strategy document for internal discussions on what it can offer in the field of water diplomacy, how it can position itself, and how to strengthen and support this field, also in collaboration with key partners. DGIS is involved through the work of Ms Tineke Roholl, who has been seconded for one day per week to UNESCO-IHE specifically for supporting water diplomacy. By early 2017, an additional (senior) lecturer in water diplomacy will have been recruited to strengthen the Institute's capacity in water diplomacy.

As water diplomacy is an emerging and growing area at UNESCO-IHE, discussions on the specific objectives are still on-going. Also, the DUPC2 water diplomacy agenda and portfolio of activities is not yet fully articulated. However, by the end of 2016, the Institute intends to have made a first significant step towards formulating a comprehensive and coherent agenda, with the understanding that this will be an ongoing process. UNESCO-IHE is working on bringing together its many disciplines and areas of focus to create a unique platform to approach water diplomacy. Amongst other things, it suggests a systems perspective approach based on international law, governance, negotiations, river basin management simulations, modelling, and natural- and engineering sciences. Serving diplomatic and political processes, this systems perspective supports the identification and development from available hydrological and river basin management instruments those that will enable stakeholders beyond the water sector to deal with the issues raised by water diplomacy.

UNESCO-IHE will submit a detailed plan and budget before the 1st of March of 2017, in view of the proposed actions and other ideas under discussion including:

- Training and education in the field of water cooperation and diplomacy (Education and Training; Section 4.2). In 2017 a short course on preventive water diplomacy will be developed, as well short courses/workshops on water diplomacy and the systems approach (e.g. water accounting, decision support systems, media, and transboundary flood management), and water diplomacy and water negotiation preparation. Ideas for the development of additional tailor-made training targeting different audiences will be considered. The joint Water Cooperation and Diplomacy joint programme with Oregon State University and University of Peace in Costa Rica will be further strengthened through more actively promoting this unique programme and identifying new sponsors for scholarships. The basis for cooperation with the University of Khartoum - and at a later stage Addis Ababa University - will be established together with an outline of a joint plan of activities.
- Continuing to support basin cooperation through joint work and collaboration with the Stockholm International Water Institute (SIWI) (Knowledge sharing and Networks; Section 6.2). Under the umbrella of the UNESCO-IHE & SIWI agreement, in 2017 SIWI and IHE will continue to cooperate to enhance transboundary water management including 1) Pooling of SIWI and UNESCO-IHE knowledge resources on transboundary issues; 2) On a needs basis, UNESCO-IHE will contribute to the implementation of the Shared Waters Partnership program hosted by SIWI; 3) Contributing to efforts supporting EU coherence in the area of water diplomacy; 4) Addressing and exploring innovative approaches to promote and facilitate transboundary water cooperation; 5) Building trust, confidence, mutual respect and promoting collaboration between riparian countries
- Promote the 1997 Convention on the Non-navigational Uses of International Watercourses by WWF (Knowledge sharing and Networks; Section 6.2). WWF will continue support for more accessions to one/ or both conventions on fresh water and/ or use of tools of the conventions, good governance for the water agenda as a whole - and SDG6 specifically but also the water related SDG's - being instigated. WWF will participate in at least eight events related to water diplomacy in international level, including OECD water governance Initiative meeting, International conference "Dublin +25", World Water Week, Working Group on IWRM, CoP23 (#ClimatelsWater campaign).

- Different DUPC2 research for development projects started up in 2016 involve water diplomacy. These include the project that addresses water scarcity in the Middle East, one that focuses on water diplomacy and the media (including journalists) in the Nile region and the South-South project entitled 'River basin simulation for improved trans-boundary water management in the Nile: Case study of the Tekezze-Atbara sub-basin'. These projects will contribute to the theme and to the development of education and training materials that will be incorporated into the broader theme of water diplomacy at UNESCO-IHE, in the Netherlands and abroad.
- Annual seminars on water cooperation and diplomacy also as a means to connect and create synergies between the three above-listed activities (Knowledge sharing and Networks; Section 6.2). The annual seminar on water and peace to be held in early 2017 will offer a platform for the Institute to present and discuss with experts and practitioners the concept of water diplomacy. This will be used as a building block for this theme and for further work and activities to be based on it.
- During 2017, UNESCO-IHE intends to organise specific activities to further its understanding of water diplomacy. For instance, a workshop addressing the topic "A downstream/delta perspective to the cooperation over transboundary water", whereby typical downstream countries will share experiences on how they have attempted, succeeded and/or failed in convincing upstream countries to take their specific needs into account. Possible invitees would include academic and official government representatives from the following countries: Egypt, Vietnam, Bangladesh, Mozambique and The Netherlands. The outcome would be lessons learned of interest to many other countries, including those located upstream. This activity may later be followed up by a similar session with typical upstream countries, and a third synthesis session combining lessons from up- and downstream.
- We will co-convene the Hydro-Hegemony session of 2017, together with Wageningen University and other partners, to be held in The Hague. The HH seminar is normally convened by UEA and KCL, and usually held in London.
- Other ideas to further strengthen the water diplomacy theme include creating a position for a visiting professor, the coordination of The Hague initiative and a stronger involvement of the Water Youth Network.

Box 2. Water productivity database training for DGIS focus countries in Africa and Middle East.

This activity will provide an introductory training to local stakeholders on using FAO's Online Water Productivity Database. The DGIS focus countries for this training are: Kenya, Ethiopia, Mali, Benin, Ghana, Mozambique, Rwanda, Palestinian Territories, Yemen, Lebanon, and Jordan. The trainings in Lebanon, Ethiopia, and Mali are covered by different projects. The development of the training curriculum will be co-funded by the FAO Water Productivity and Accounting project. The training will be conducted during two full work days per country. The curriculum will be standardized for all countries and provides an introduction to the FAO's online water productivity database¹⁴. Material that will be covered during the training are:

- theory, concepts, and methodology used in the water productivity database
- using the online database with a demo and a simple exercise
- practical applications of the database information

The training will invite stakeholders from ministries of agriculture and water resources, universities and research institutes, UN organizations such as regional FAO offices, farmer organizations, NGO's and private sector, and experts from the local Dutch embassy. The number of participants is expected to be approximately 15 people per country, with 2 or 3 representatives from each stakeholder group. The training is expected to take place in May 2017 when the FAO water productivity database has been launched.

Budget indication is 150,000 Euro.

¹⁴ www.fao.org/in-action/remote-sensing-for-water-productivity

5. Component 'Research and Innovation'

5.1 Expected results and approach

The objective of the component 'Research and Innovation' is:

Conduct problem-oriented research jointly with partner institutes in support of development goals for environment and water, supporting social and technological innovations, and targeted to agents of change.

The objective is achieved through the following 3 results (for more details see Annex 1):

- Result 1. Problem-oriented scientific knowledge and insights related to the four DUPC themes developed and targeted to agents of change
- Result 2. Academic research linked with other "agents of change" in development issues
- Result 3. Piloting / demonstration projects for technological or social innovations supported

5.2 Project activities in 2017

Result 1

In 2016, 2 calls were launched contributing to Result 1: a Research for Development Call (Activity 1; March 2016) and a South-South research collaboration Call (Activity 2; September 2016). The Research for Development Call has successfully identified eight project proposals (Table 3), while the South-South Call is currently in the process of selecting proposals. The resulting projects will continue and / or will start-up in 2017. A second South-South research collaboration Call is planned in 2017. DUPC2 continues to support projects in achieving and capturing societal impact through methodological innovations and knowledge sharing and learning events similar to the research impact workshop held in September. The projects selected as part of Activity 3 of Result 1 'co-funding of relevant Dutch, EU, and international research programme' (Table 3) will continue and / or start-up in 2017, and new projects might be identified for co-funding.

Result 2

The first activity of Result 2 'Conduct research on knowledge management and capacity development' is proposed to be cancelled and available budget to be re-allocated (Section 3.2). A Research Outreach Call has been launched June 2016 to identify activities for the second activity 'Develop outreach products supporting the accessibility of research results' which resulted in four projects (Table 3). Activities are being started. A new Call is planned in the first half of 2017.

Result 3

The facility to pilot / demonstrate research results resulting from DUPC2 funded projects (Activity 1) focusses at projects in the Middle East (see Box 2). These projects are starting up and will continue in 2017. The Secretariat VIA Water programme (Activity 2) is a running activity that started under DUPC1 and will enter its last year of implementation in 2017 (Box 3).

The project activities in 2017 part of the Research and Innovation component are listed in Table 3. A distinction is made between running projects (projects having a grant allocated and a project number), projects in the pipeline (identified, but not yet a grant allocated), and projects planned (prospects).

Table 3. DUPC2 Research and Innovation component – 2017 project activities (running, pipeline, prospect and ended).

Project nr	Result LogFrame	Activity (long)	Status	Partners (incl. UNESCO-IHE)	Region	Water and food	Rivers and deltas	WASH	Water scarcity ME	Water governance	Water Diplomacy	Gender/ inclusiv.	Climate change	Estimated DUPC2 expenditure 2017
106470	R&I R1 A1	Arid African Alluvial Aquifers Labs securing water for development (A4Labs)	RUN	UNESCO-IHE, Oxfam NOVIB, Oxfam NOVIB, Oxfam Zimbabwe, ACACIA Water, Mekelle University, Dabane Trust	Sub-Saharan Africa	1	0	0	0	1	0	1	1	173,990
106363	R&I R1 A1	Enabling the assessment of alternative water supply systems to promote urban water security in the Global South (alternative WSS)	RUN	UNESCO-IHE, Maputo Water Company, Beira Water Company, Institut Teknologi Sepuluh Nopember, Gresik District, VEI	World-wide	1	0	1	0	0	0	0	1	135,650
106471	R&I R1 A1	Developing the evidence-base in support of water resources management policy for sust. agriculture development and environmental protection (Evidence4Policy)	RUN	UNESCO-IHE, Universidad del Valle, Universidad Antioquia, Universidad del Norte, Deltares, Wageningen University, Cenicafía	Latin America & Caribbean	1	0	0	0	1	0	0	1	170,852
106477	R&I R1 A1	From conflict on wastewater management in the Kidron/Al-Nar basin towards sust devt by decentralised local solutions for wastewater treatment and reuse	RUN	UNESCO-IHE, Al Quds University, Hebrew University of Jerusalem, EcoPeace Middle East for Environmental Development, Engineers Without Borders Holland	Middle East & North Africa	0	1	1	0	1	1	0	0	172,551
106475	R&I R1 A1	Water Supply and Sanitation in Small Towns: the urban rural intersection (SMALL)	RUN	UNESCO-IHE, Eduardo Mondlane University, Collins Ltd., Administração de Infraestruturas de Abastecimento de Água e Saneamento, Makerere University, National Water and Sewerage Corp	Sub-Saharan Africa	1	0	1	0	1	0	1	1	169,758

106476	R&I R1 A1	Mitigating groundwater salinity impacts for improved water security in coastal areas under socio-economic and climate change (SALINPROVE)	RUN	UNESCO-IHE, Eduardo Mondlane Uni., HoChiMinh City Uni. of Technology in VietNam (HCMUT), Division for Water Resources Planning and Investigation for the South of Vietnam, Tianjin Center of China Geological Survey	World-wide	0	1	1	0	0	0	0	1	156,261
106474	R&I R1 A1	Media Science and Water Diplomacy in the Nile Basin (and beyond) (Open Water Diplomacy Lab)	RUN	UNESCO-IHE, University of the Witwatersrand, Nile Basin Capacity Building Network for River Engineering	World-wide	1	0	0	1	1	1	0	0	123,763
106536	R&I R1 A1	Water Intelligence for the Near East (WIN)	RUN	UNESCO-IHE, Litani River Authority, National Council for Scientific Research, Lebanese Agricultural Research Institute, FAO	Middle East & North Africa	1	1	0	1	1	0	0	1	62,500
0	R&I R1 A2	South-South research collaboration Call 2016 and 2017 (expected 9 * 100,000: 900k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	225,000
106472	R&I R1 A3	Sustainable Hydropower and Multipurpose Storage to meet Water, Food and Energy SDG's: a Program for Collaborative Research and Innovation (S-MultiStor)	RUN	UNESCO-IHE, Pontificia Universidad Javeriana, Universidade Edoardo Mondlane, National Uni. of Laos / Charles Sturt Uni., Yangon Technical Uni., Leibniz Inst. of Freshwater Ecology and Inland Fisheries, Alliance for Global Water Adaptation, Colombian Nat. Business Ass., Colombian Nat. Planning Depart., Int. Hydropower Ass., Myanmar Inst. for Integrated Development, The Nature Conservancy, WWF, Zambezi Watercourse Commission	World-wide	1	1	0	0	1	1	0	1	125,000
0	R&I R1 A3	NWO SDG 'Tackling Global challenges'	PRO	0	World-wide	0	0	0	0	0	0	0	0	100,000
0	R&I R1 A3	Experienced Postdoc Fellowship Programme	PIP	0	World-wide	0	0	0	0	0	0	0	0	50,000
104476	R&I R1 A3	Understanding Flows of Water and People in Bangladesh and the Netherlands	RUN	0	World-wide	0	1	0	0	1	0	0	0	8,250
104522	R&I R1 A3	Strengthening Strategic Delta Planning Processes in Bangladesh, NL and beyond	RUN	0	World-wide	0	1	0	0	1	0	0	0	25,000

104303	R&I R1 A3	Sustainable freshwater supply in urbanizing Maputo	RUN	0	Africa	0	0	1	0	1	0	0	0	16,750
106573	R&I R1 A3	Sustainable agricultural intensification using natural and built water storage infrastructure. An adaptive approach (SAIStor)	PIP	0	Africa	0	0	0	0	0	0	0	0	16,355
106797	R&I R2 A2	Customised sanitation information for aid workers, CBOs and NGOs in Darfur (Sanitation Darfur)	RUN	UNESCO-IHE, Sudan Health ministry: environment and sanitation project, ALAG Media Centre (Civil society) , Alumna UNESCO-IHE	Africa	0	0	0	0	0	0	0	0	2,533
106795	R&I R2 A2	Web Platform Nilewaterlab.org	RUN	De Wortel Van Drie	Middle East	0	0	0	0	0	0	0	0	4,500
106799	R&I R2 A2	UNHIDE Outreach – Public engagement through live stories documentaries	RUN	UNESCO-IHE, University of Eduardo Mondlane, WSUP Mozambique, University of Amsterdam, King’s College London	Africa	0	0	0	0	0	0	0	0	5,000
106800	R&I R2 A2	Experimental Methods on Wastewater Treatment in Spanish	RUN	UNESCO-IHE, Higher Polytechnique Institute "Jose Antonio Echeverria", Autonomous University of the State of Mexico	Latin america	0	0	0	0	0	0	0	0	5,071
0	R&I R2 A2	Research outreach Call 2017 (expected 10 * 15,000; 45k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	75,000
106538	R&I R3 A1	Mobile Microwave based reactor unit for on-site faecal sludge treatment for the humanitarian and development WASH sector	RUN	UNESCO-IHE, Tehnobi, Slovenia, German Jordan University, Jordan Ministry of Water and Irrigation/ Water Authority of Jordan	Middle East & North Africa	0	0	1	1	1	0	1	0	74,997
103881	R&I R3 A2	VIA Water, supporting water innovation in Africa	RUN	UNESCO-IHE	Africa	0	0	0	0	0	0	0	0	546,131
													TOTAL	2,444,912

Notes table 3:

- Column ‘status’: A distinction is made between running projects (projects having a grant allocated and a project number), projects in the pipeline (identified, but not yet a grant allocated), and projects planned (prospects).

Box 3. Water scarcity Middle East - projects and planned activities in 2017 (project nr. 106.477, 106.536, 106.537, 106.538 and 106.539).

In the Middle East there is a severe water scarcity problem caused by limited fresh water resources, and pollution of existing water resources making it unsuitable for use. The social impact of the water scarcity problem has reached new levels with the growth of the refugee population from the Syrian crisis, thereby increasing demands on the limited water resources. Based on the note 'Contribution of the DUPC2 program to solve water scarcity and water problems related to the refugee crises in the Middle East' developed early 2017, DUPC2 has initiated five projects in the Middle East for addressing water scarcity issues:

- KidroNar: decentralized local solutions for wastewater treatment and reuse (Palestine, Israel)
- Water Intelligence (WIN): water accounting and water productivity data and training (Lebanon)
- SCARCE: desalination, diplomacy, and water reuse in Middle East (Jordan)
- Microwave Faecal Sludge Treatment (Jordan)
- CONNECT: connecting water scarcity professionals from MENA region (incl. Nile Basin)

The objective of these projects is to support local water sector organizations with the current water issues and the refugee crisis. The projects have a focus on technology and knowledge transfer through training events. The training events will be divided in training of trainers (or technical staff) and training of users, which are the decision-makers and water managers. The content of the projects are adapted to local demands using feedback from local stakeholders during an inception workshop in Summer/Fall 2016. These inception workshops took place at an early stage of the project proposal development, enabling that project activities are both relevant and doable in local circumstances.

Collaboration and close working relationships are established with local entities such as universities, research institutes, river and water utility authorities, and others. Integration of the different projects and knowledge exchange between the countries is of importance for all projects and especially key for the CONNECT project, which brings professionals together in different workshops.

Activities in 2017

The projects are expected to launch several local training events and workshops for capacity building and knowledge exchange during 2017. Training events will provide intensive training to a selection of local technical staff, researchers, and students on remote sensing, water accounting and productivity, desalination, wastewater reuse, and solid waste treatment. Also workshops planned in 2017 for government organizations, water authorities, and the private sector will discuss results and support the adoption of the proposed technology by end-users. During 2017 knowledge exchanges between UNESCO-IHE and local partners will improve and tailor the suggested technical solutions to local circumstances and validate outputs.



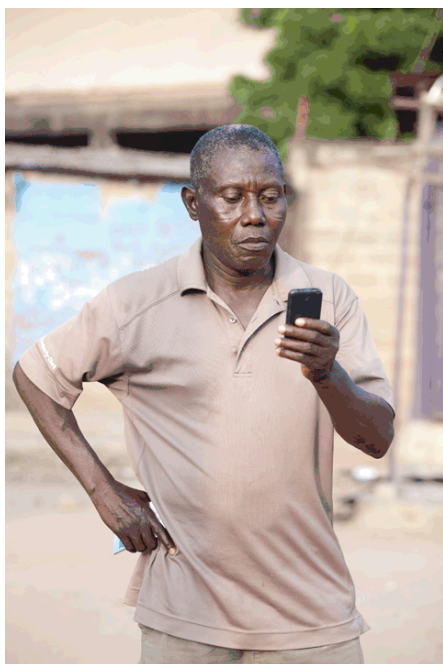
Litani River water pollution



German Jordan University and Jordan Valley testing sites

Box 4. The VIA Water project and planned activities in 2017 (project number 103.881).

VIA Water has further evolved in 2015 into a running programme for urban water innovations in Benin, Ghana, Kenya, Mali, Mozambique, Rwanda and South-Sudan. VIA Water is where policy, knowledge institutions, business and industry and NGOs from Africa and from the Netherlands come together to develop co-creative partnerships that culminate in innovative and sustainable solutions. The VIA Water Fund is available to support these innovations through online and face-to-face events, like Challenges, Knock Out Competitions and Learning Tours. VIA Water seeks new connections; combining partners of sectors that normally do not interact. The programme focuses on twelve pressing water needs in African cities. To name a few: more and reliable water harvesting and storage, good quality data gathering, access to drinking water, coping with floods. VIA Water looks for social and supply-chain innovations rather than simply technological innovations, for example the development of a Flash Flood Forecasting App. An online learning community is the platform for knowledge exchange, while building up trust during face-to-face events. DUPC supports the programme office of VIA Water which is hosted by UNESCO-IHE. The management of the funding available for small-scale innovations is outsourced to Aqua for All. Activities in 2015 resulted in the first seven approved contracts, after having received 175 teasers, the majority from Kenya and Ghana.



Activities in 2017

In 2017 VIA Water will remain to identify innovative projects. The aim is to have our portfolio filled (total of around 60 projects) by the middle of the year. In the meantime, VIA Water will have the first batch of projects finalised. Focus will be on the knowledge exchange of the results of those projects as well as on assisting the finished projects with their continuation (better business model, identifying potential public and private investors, etc). Lastly, Community building as a combination between online activities as well as live events will continue. We foresee to be largely present with a delegation of our applicants during the AIWW (Amsterdam International Water Week). We foresee to have a second training on leadership skills and projectmanagement for our new batch of projects.

<http://www.viawater.nl/en>

A VIA Water supported project in Ghana – the use of the Flash Flood Forecasting App

6. Component 'Knowledge Sharing and Network'

6.1 Expected results and approach

The objective of the component 'Knowledge sharing and Networks' is:

Improve access to and sharing of gained knowledge and experiences, at the level of focus themes and regions and higher, and support the role of the UNESCO-IHE Global partnership for Water and Development and related regional networks.

The objective is achieved through the following 5 results (for more details see Annex 1):

- Result 1. Regional and international discussions initiated and facilitated
- Result 2. Knowledge sharing of programme results to wider audiences
- Result 3. Targeted knowledge sharing with DGIS, EKNs and other parties
- Result 4. Networks and partnerships supported, some existing supported in transition
- Result 5. Organisation and quality assurance of UNESCO-IHE Global Partnership supported

6.2 Project activities in 2017

Result 1

Activities addressing Result 1 are part of the DUPC2 communication plan developed in 2016. A first regional event is planned early 2017 addressing water scarcity in the Middle East and DUPC2's activities (Box 2). Also the yearly planned seminars of Water Diplomacy fall under this activity (See Box 1).

Result 2

All three activities contributing to result 2 - Open Course Ware, TheWaterChannel, and Spatial Data Infrastructure - were also part of DUPC1. Open Course Ware is a running activity which is still using 2016 DUPC1 funds, and is expected to start using DUPC2 funds from January 2017 onwards. A workplan and contract for TheWaterChannel is in preparation, and the intention is to start this activity soon, which than will continue in 2017. The Spatial Data Infrastructure is running and plans for 2017 are presented in Box 4.

Result 3

Result 3 consist of various activities. Knowledge sharing with the Ministry of Foreign Affairs is implemented upon request of the ministry (Activity 1). An activity that will be funded under this activity and starting in 2017 is the VIA Water post-doc. Activities 2 and 3 addressing result 3 - support regional cooperation on water (SIWI, UNESCO-IHE) and support assistance to implementation UN Watercourses Convention - are running and will continue in 2017 (Box 1). Also the Water Accounting+ project – contributing to result 3 - is running and plans for 2017 are presented in Box 5.

Result 4

Result 4 'networks and partnerships supported' is supported by three running activities which will continue in 2017: WaterNet and NBCBN (Activity 1), and the Boosting the Effectiveness of Water Operator's Partnerships (BEWOP) project and its GWOPA part (Activity 2). Plans for 2017 are presented in Boxes 6-8.

Result 5

The use of the facility to strengthen the UNESCO-IHE Global Partnership supported (Result 5) will be discussed in a DUPC committee meeting early 2017, based on which plan will be developed in the first quarter of 2017. In line with the strategic objectives of the 2017 Annual Plan (section 3.3) the DUPC committee tentatively has identified the following type of activities to start implementing in 2017, which will be further detailed in a planned DUPC committee meeting early 2017:

- Develop and maintain a web-based knowledge management system to make knowledge and experiences of the partnership and its activities accessible to partners, DGIS and EKNs and the general public including, including studies, reports, policy briefs, curriculum, videos, impact stories.
- Further support the process of creating synergies between projects at thematic and regional level, and strengthen their outreach and communication. Organising regional events highlighting a DUPC theme or activities in focus countries and regions. The purpose of these events can be various, e.g. agenda setting, or dissemination and outreach of programme results (see also Knowledge sharing and Networks Result 1).
- Start activities to strengthen the quality of the partnership, like workshops, events, webinars, staff exchange on research impact, involvement private sector, gender and diversity, enhancing the added value of our partnership, etc. Including knowledge sharing and learning events amongst projects and partners on knowledge management and capacity development.

The project activities in 2017 part of the Knowledge sharing and Networks component are listed in Table 4. A distinction is made between running projects (projects having a grant allocated and a project number), projects in the pipeline (identified, but not yet a grant allocated), and projects planned (prospects).

Table 4. DUPC2 Knowledge sharing and Networks component – 2017 project activities (running, pipeline, prospect and ended).

Project nr	Result LogFrame	Activity (long)	Status	Partners (incl. UNESCO-IHE)	Region	Water and food	Rivers and deltas	WASH	Water scarcity ME	Water governance	Water Diplomacy	Gender/ inclusiv.	Climate change	Estimated DUPC2 expenditure 2017
0	K&N R1 A1	Regional, (inter)national sessions (expected 4 * 25000; 100k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	100,000
0	K&N R1 A2	Local, regional events (expected 4 * 50000; 200k)	PRO	0	World-wide	0	0	0	0	0	0	0	0	200,000
106289	K&N R1 A2+	Water diplomacy seminars	RUN	UNESCO-IHE, WWF , SIWI, Knowledge institutes , OSU, UPEACE, University of Khartoum, Addis Ababa University	World-wide	0	0	0	0	0	1	0	0	50,000
104991	K&N R2 A1	Open Educational Resources	PIP	UNESCO-IHE	World-wide	0	0	0	0	0	0	0	0	43,750
0	K&N R2 A1	The Water Channel	PIP	UNESCO-IHE	World-wide	0	0	0	0	0	0	0	0	43,750
106374	K&N R2 A1	Spatial data infrastructure System Water (SDI) (Phase 2)	RUN	UNESCO-IHE and partners in Benin and Kenya	World-wide	0	2	0	0	0	0	0	0	43,750
0	K&N R3 A1	Post-doc VIA Water	RUN	0	World-wide	0	0	0	0	0	0	0	0	35,000
106300	K&N R3 A1	H2Online - Online course for DGIS	END	UNESCO-IHE, DGIS	Western Europe	1	1	1	1	1	0	0	0	0
106289	K&N R3 A2	UNESCO-IHE - SIWI cooperation on transboundary water cooperation and water diplomacy 2016-2020	RUN	SIWI, UNESCO-IHE	World-wide	0	0	0	0	0	1	0	0	125,000
105256	K&N R3 A3	Promote UN Water Convention (WWF)	RUN	WWF	World-wide	0	0	0	0	0	1	0	0	87,500
106348	K&N R3 A4	Water Accounting for larger river basins 2016 to 2019	RUN	UNESCO-IHE, IMWI (knowledge institute), FAO, WWAP	World-wide	1	1	0	0	0	0	0	0	125,000

106539	K&N R4 A1	Connecting regional experts from the Middle East and Nile Basin countries to contribute to solving water scarcity.	RUN	UAF, Refugee NGO- Utrecht, NBCBN, HRI - Cairo, Nile Basin Initiative, ICPAC-Nairobi, UNDP Istanbul	Middle East & North Africa	0	0	0	1	0	0	0	0	50,000
106257	K&N R4 A1	Nile Basin Capacity Building network (NBCBN) Support	RUN	UNESCO-IHE, Hydraulic Research Institute (HRI), Nile-ECO-VWU, CAP-NET	Middle East & North Africa	0	1	0	0	0	0	0	0	185,500
106369	K&N R4 A1	WaterNet Secretariat support (phase 2)	RUN	WaterNet, UNESCO-IHE	Sub-Saharan Africa	1	1	1	0	0	0	0	0	50,000
106344	K&N R4 A2	Boosting the Effectiveness of Water Operator's Partnerships (BEWOP Phase 2) - GWOPA/UN-Habitat and UNESCO-IHE	RUN	UNESCO-IHE, GWOPA	World-wide	0	0	1	0	1	0	0	0	285,000
0	K&N R5 A1	Activities to strengthen the Global Partnership	PRO	0	World-wide	0	0	0	0	0	0	0	0	75,000
TOTAL													1,499,250	

Notes table 4:

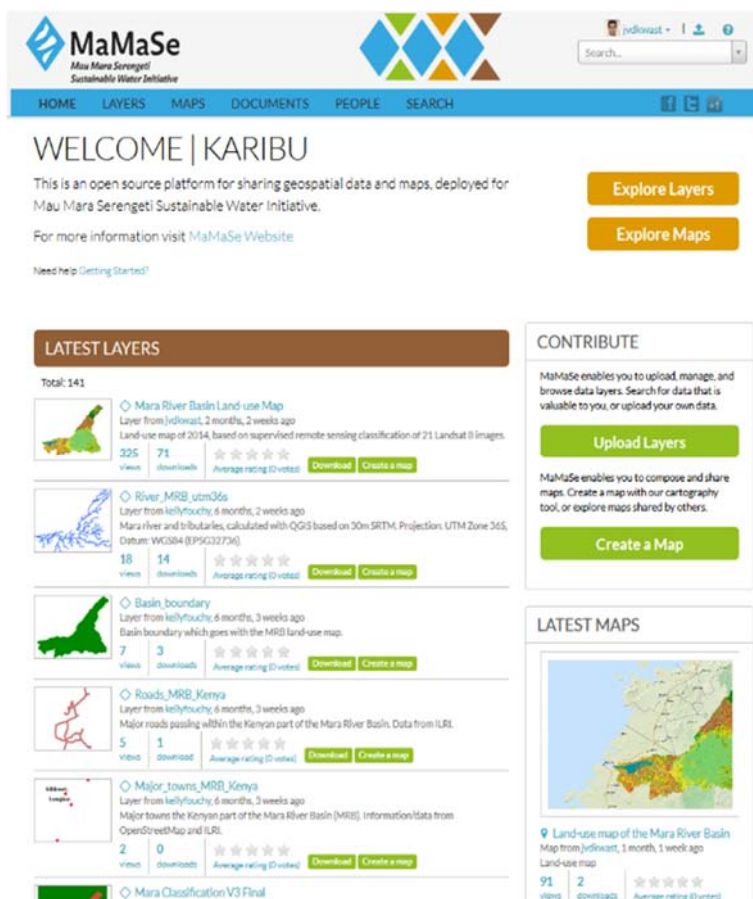
- Column 'status': A distinction is made between running projects (projects having a grant allocated and a project number), projects in the pipeline (identified, but not yet a grant allocated), and projects planned (prospects).

Box 5. The Spatial Data Infrastructure (SDI) project and planned activities in 2017 (project number 106.374).

The Spatial Data Infrastructure aims to make spatial data generated in DUPC funded and other projects available for the Partners and wider audiences. In 2014 several SDIs have been implemented. For example, for the water sector of Benin the National Water Information System (SNIEAU) is now online (<http://benin.sniveau.bj>) and partner organisations in the MaMaSe capacity development project in Kenya are now using an SDI node to share data (<http://maps.mamase.org>). Other partner organisations were trained in setting up and using an SDI for the water sector in their country (e.g. IWAVE Manila). In DUPC 2 the SDI nodes will be further developed with and made accessible to southern partners. The aim is to connect the different SDI nodes that are established with our partners and give access through one water data portal

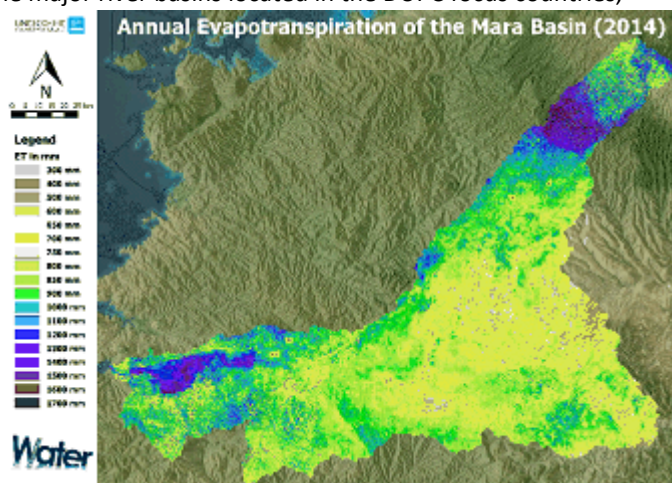
Activities in 2017

During the impact workshop in 2016 the SDI project was presented to the thematic DUPC2 projects. Interested projects were invited for a follow up meeting where they were clustered in regions/basins for which an SDI will be established in 2017. Based on their needs, the SDI team will plan the implementation of the roadmap (incl. needs assessment for data and training) and of the SDI platforms. The implementation cost will be shared among all projects in a basin/region with additional support from the SDI project (technical support, roadmap development and training materials). Expectedly, there will be a minimum of 2 SDIs created in 2017.



Box 6. The Water Accounting+ project and planned activities in 2017 (project number 106.348).

The Global Water Accounting project led by UNESCO-IHE, FAO and IWMI which started in 2014 aims to make neutral analyses of the water accounts for some major river basins located in the DUPC focus countries, share the data with the governmental agencies, and make water policy makers aware of the opportunities and limitations of the approach. In 2015 the analytic framework for Water Accounting Plus (WA+) was further improved, and first sheets were constructed for the Mara basin. In 2016 the remaining sheets for the Mara basin will be completed, also sheets for basins in Cambodia, Vietnam, and India will be created. The materials gained are used for training and educational purposes at UNESCO-IHE, and partner institutes involved.



Map. Example of use of Water Accounting services for water and agricultural management in the Mara Basin.

From satellite imagery the biomass and evapotranspiration was calculated on a 30m spatial resolution. The evapotranspiration was made by a selection of different evapotranspiration products and further downscaled by using Landsat images. The biomass was calculated by using a digital elevation map, weather data of GLDAS and Landsat images. An accurate land cover map of the Mara basin was used to determine the total yield over the growing season for each agricultural field. The total yield was divided by the Evapotranspiration to obtain a spatial map of water productivity on a 30m spatial resolution. With this map you can even compare different farmers who are doing well and have a high water productivity and on the other hand farmers which use a lot of water to obtain the same yield. Those spatial maps were used to complete the Agricultural Services sheets (3a and 3b).

Sheet 3: Agricultural services
Part 1: Agricultural water Consumption (Mm³/Year)
District: Mara basin
Period: 2015

Average Crop	Crop							Agricultural water consumption
	Cereals	Non-Cereals			Feed Crops		ET Rainfed	
21.91	108.18	78.24	288.26	92.77	189.86	68.26	24.88	1161.87
Tea	Wheat	Sorghum	Maize	Finger Millet	Beans	Potato	Pasture	ET from rainfall irrigated
8.62	33.95	8.24	92.85	62.99	48.88	4.68	1.54	245.1
8.12	0.29	3.11	1.24	6.42	2.46	3.21	0.78	Incremental ET irrigated
3.14	54.28	6.89	94.87	62.40	41.64	4.39	1.72	Total ET irrigated

Sheet 3: Agricultural services
Part 2: Land productivity (kg/ha/yr) and water productivity (kg/m³)
District: Mara basin
Period: 2015

Crop	Crop							Yield	Water
	Cereals	Non-Cereals			Feed Crops		Yield		
Tea	Wheat	Sorghum	Maize	Finger Millet	Beans	Potato	Pasture	Yield	Water
30274	4414	3128	2894	1926	6962	27466	29054	18748	18748
19254	1888	1023	4808	794	3824	18281	18748	18748	18748
3912	1862	1048	4897	1164	2812	14081	11285	11285	11285
29187	1489	2292	8942	1818	6865	24182	29128	29128	29128
Tea	Wheat	Sorghum	Maize	Finger Millet	Beans	Potato	Pasture	Yield	Water
1.94	1.86	1.89	2.90	0.46	2.42	12.41	3.32	3.32	3.32
1.46	0.86	0.40	1.36	0.31	1.58	6.85	1.88	1.88	1.88
2.82	1.34	0.65	2.22	0.82	2.19	9.91	8.91	8.91	8.91
1.95	0.91	0.55	2.94	0.45	1.99	6.86	2.44	2.44	2.44

Activities in 2017

In 2017, the water accounts in Jordan River and Litani River will be completed, including the preparation of all 8 WA+ sheets. Further collaboration with the local organisations will be intensified. Another objective is to see how remote sensing in general and WA+ in particular can provide additional input for quantifying SDG indicators.

<http://wateraccounting.org/>

Box 7. WATERNET. Collaboration between the WaterNet Trust and UNESCO-IHE and planned activities in 2017 (project number 106.369).

Aim of this project is to establish a fully functional, sustainable and independent network, diversifying funds and securing the next phase of WaterNet activities. This project has started in August 2013 and since then several missions have taken place amongst others to assist WaterNet with setting up a sound financial management system in order to phase out the activities of KPMG in the financial administration, which was successfully accomplished per January 2014. Other missions focused on developing an effective communication strategy for within the network as well as with external parties, which was operationalized in 2015 including the launch of a new interactive website. With support of this project an extensive alumni tracer survey was carried out in which not only WaterNet graduates were interviewed on the relevance of the regional IWRM Master programme but also their employers. This survey has been essential to establish the impact of WaterNet on the water sector in the Southern African region as well as serves as an important input to further improve the educational programmes offered by the WaterNet network. The project mainly focused during the second half of 2015 on the development of a sound and sustainable funding strategy for WaterNet during Phase IV (2017-2020). For this purpose several meetings were organized and a draft strategy document was developed in collaboration with the Secretariat including detailed calculations for determining overhead costs and fees. The draft strategy was presented during the Board meeting in October 2015 and has been discussed with WaterNet members and potential donors during the course of 2016. This has resulted in commitments from funding agencies (e.g. DGIS, GTZ, DFID) to funds (parts) of the WaterNet activities during Phase IV. In December 2016 the WaterNet manager and financial accountant as well as a WaterNet member will follow a tailor-made training at UNESCO-IHE on strategy development for financial sustainability.

Activities in 2017

In 2017 this project will continue to further strengthen and support the Secretariat in implementing strategies and developing procedures for diversifying the funding base. Amongst other the newly to be appointed Fund Coordinator will be trained on the job on how to liaison with different kinds of funding agencies and how to effectively engage the private sector and philanthropic organizations. Moreover, a proactive approach will be designed and implemented to proactively scan opportunities for project and fellowship acquisition. In addition, investments will be made in developing fundraising materials and further improving the communication channels with WaterNet members and external actors, including the website.

<http://www.waternetonline.org/>

Box 8. The NBCBN Support project and planned activities in 2017 (project number 106.257).

The NBCBN support project is concerned with strengthening the Nile Basin Capacity Building Network, a network of water professionals and organisations from the 11 countries of the Nile River Basin. The NBCBN secretariat is located at the Hydraulic Research Institute in Cairo. NBCBN has signed an MoU for cooperation with the Nile Basin Initiative (NBI). The network connects more than 600 water professionals from all Nile Basin countries. The main objective for the network for the period 2016-2018 is to register as an independent organisation in the Nile basin as follows: *"A financially sustainable, registered regional Nile Basin network of water professionals, firmly rooted in the academic and applied research world, with a demand driven research and knowledge agenda with special reference to trans-boundary water-related issues, and with strong functional relations with its major client NBI Secretariat- ENTRO-NELSAP-CU as well as with relevant national ministries in the Nile Basin."*

In 2015, the network's steering committee reached agreement on the legal format under which to register the network. The network will pursue registration in Egypt as an International Forum. In 2016, the constitution has been developed and approved by the steering committee, and an Egyptian legal consultant has detailed the steps for filing the request for registration. South Sudan has put forward the Juba University as suggested representative for the network, which NBCBN happily welcomed during the yearly Steering Committee meeting. 2016 also continued the network's cooperation with inter-network CapNet UNDP. NBCBN was eligible for the second year to receive the core funding support from CapNET. Although this is a limited budget of 12000 USD, it is considered an important step towards securing funds other than from DUPC for sustainably running NBCBN.

Activities in 2017

Main objective for 2017 is to achieve registration as an independent organisation in Egypt. In 2017, NBCBN will also work in collaboration with Open Water Diplomacy Lab project (a project under Component 2). This activity focuses on exploring and improving cooperation between water scientists and journalists fostering their combined potential role in promoting water cooperation rather than water conflict. The network's further research activities in 2017 will focus on Water Scarcity case studies in the Nile Basin, contributing to the Water Scarcity Middle East theme (Box 3).

<http://www.nbcbn.com/>

Box 9. The Boosting the Effectiveness of Water Operator's Partnerships (BEWOP) project and planned activities in 2017 (project number 106.344).

Boosting Effectiveness of Water Operators' Partnerships (BEWOP) Phase 2 aims at assisting and enhancing the knowledge transfer and change processes of Water Operators Partnerships. The BEWOP project is a collaboration of the UN-Habitat Global Water Operators' Partnerships Alliance (GWOPA) and UNESCO-IHE. BEWOP Phase 2 is targeted towards the development of guidelines, trainings and tools that allow water operators to develop more effective partnerships. In doing so, the BEWOP project provides a significant contribution to the DGIS Aid to Trade policy as water operator partnerships represent an important instrument in implementing this policy in the water supply and sanitation sector.

Activities in 2017

This shift in focus of the project and the envisaged support to Dutch Development Aid policy also means that activities in the BEWOP project will be undertaken in cooperation with (Dutch) water operators in order to ensure that developed tools and guidelines will be used by these water operators in their international activities. In 2017, the project will focus on the development of approximately 10 tools, trainings and guidelines in order to facilitate the effectiveness of WOPs.

In the development of tools, guidelines and trainings staff of the water operators will be directly involved in the design, development and implementation. This will ensure that the tools both address a real demand as well as meet the needs of practitioners.

<http://www.gwopa.org/en/bewop>

Tool	Description	Partners
Asset management (1)	EPANET-AM – a tool for enhancing discussion on investment planning and asset management among water utility managers	Vitens Evides International
QGIS	Tool to set up and process distribution network information (this includes data collection and working with a EPANET-model).	Vitens Evides International National Water and Sewerage Corporation (Uganda)
Utility Management Simulation Game	This excel-based simulation game mimics decision-making of managers in a water utility. The model is based on water provisioning in Lilongwe, Malawi	Vitens Evides International
Water Safety Plans	Role play to highlight importance of stakeholder participation in the development of water safety plans (which aim to ensure the safety of drinking water through the use of a comprehensive risk assessment and risk management approach).	Vitens Evides International
Governance of IWRM	This tool supports the establishment and further development of democratic boards for regional water authorities (including elaboration of the 'Interest-pay-say'-principle and training (capacity building) of governing bodies of local or regional water authorities.	Waternet Amsterdam
Green Utility Tool	This tool guides practitioners through the process of assessing the water, carbon and ecological footprint of a water utility.	Vitens Evides International
Water Quality Monitoring	How to setup and maintain a water quality monitoring system that provides insight in the most important water quality parameters. Depending on the water sources, water use and priorities (budgets) of the responsible water organization, different options are possible.	Waternet Amsterdam
Financing Water Services Simulation Game	Excel-based simulation game that lets participants analyze different financing options for large infrastructure investments and the financial consequences this has for the utilities financial sustainability.	Vitens Evides International
Asset Management (2)	Focusing on water supply- and waste water systems. Operation & maintenance costs & long-term planning for infrastructural investments.	Vitens Evides International Waternet Amsterdam Ministry of Water and Irrigation (Jordan) Water Authority Jordan
Non-Revenue Water	This tool focuses on four different pillars: 1) Strategic planning for NRW reduction, 2) Losses during production, 3) reduction of physical water losses in the distribution system, and 4) improvement in the administrative system	Vitens Evides International Waternet Amsterdam National Water and Sewerage Corporation (Uganda)

7. Component 'Programme Management and Learning'

7.1 Expected results and approach

The objective of the component 'Programme management and Learning' is:

The DUPC programme is managed in a professional manner, including the communication of its objectives and results, and facilitates the learning process of best approaches of addressing water and development challenges through partnership building.

The objective is achieved through the following 3 results:

- Result 1. DUPC programme is adequately managed and organised
- Result 2. DUPC programme is communicated to target audiences
- Result 3. DUPC programme learning is facilitated, supported by monitoring, evaluation and reporting

7.2 Project activities in 2017

Result 1 is supported by a programme team consisting of the programme coordinator and one programme support staff (0.5 FTE). From January 2017 the team will be strengthened with an additional programme support staff (1 FTE). The DUPC committee members have an average 1-3 days / months available for their activities. The financial part is handled by Finance Department of IHE institute, and contracting activities by Human Resource Department. These services are provided by UNESCO-IHE.

To guide implementation of activities contributing to result 2 a DUPC2 communication plan has been developed in 2016 by the UNESCO-IHE Communication Office¹⁵. The plan comprises of the following activities in 2017:

- Email, UNESCO-IHE website, UNESCO-IHE newsletters (items on DUPC funded activities), social media.
- Promote DUPC2 in regions. Gather key info, highlights, impact stories from projects and regions (in consultation with regional DUPC committee members and projects).
- Organise regional and international sessions and events for wider audiences and UNESCO-IHE partners in consultation with regional DUPC committee members and projects, facilitated by the Knowledge sharing and Networks component Result 1.
- Facilitate webinars on thematic areas (see also Knowledge sharing and Networks component Result 2).
- Contribute to the development of communication sections of DUPC2 Call texts, by e.g. offering tools and methodologies (made available on the DUPC2 webpage).
- Assist in reviewing and providing recommendations for DUPC2 projects proposals. Advise project proponents on communication strategies.
- Develop a web-based knowledge management system to make DUPC2 knowledge and outputs accessible to partnership and wider audiences.

Most above-listed activities are co-funded with internal resources of the Communication Office; regular activities and / or those of strategic importance to the Institute.

¹⁵ DUPC2 communication plan, UNESCO-IHE.

Result 3 - DUPC2 monitoring, evaluation, reporting and learning - will be supported in 2017 by the following activities¹⁶:

- Implement the MER protocol and further integrate MER protocol in collaboration with relevant UNESCO-IHE departments, including Liaison Office.
- Review and update logical framework per result, also based on comments received, with leaders of project activities addressing these results *e.g.* the eight Research for Development projects.
- Continue the IATI/AKVO/ online reporting and communication pilot, and based on the outcomes make a plan for DUPC2 implementation regarding online reporting and communication.
- Conduct a pilot (*e.g.* alumni tracer studies, outcome mapping) aiming at improved capturing of project outcomes and impacts and their communication, in close consultation with UNESCO-IHE's Communication Office.
- Present a review of the MER protocol and logical framework based on discussions and first year implementation in the DUPC2 2016 Annual Report.

DUPC2 facilitates learning within the partnership at programme level. This is part of Result 3, but also supported by Result 5 of the Knowledge sharing and Network component (see Section 6.2).

DUPC2 monitoring, evaluation, reporting and learning will be implemented by DUPC in close consultation and collaboration with UNESCO-IHE's Liaison Office. Part of the above-listed activities will be co-funded with resources from the Liaison Office, as these activities are of strategic importance for the Institute.

¹⁶ Monitoring, evaluation and reporting protocol DUPC2, UNESCO-IHE, August 2016.

8. Budgets

An overview of the DUPC2 expected expenditures and allocation of funding is given in Tables 5 and 6 below, while financial details per project are given in Appendix 3.

In Section 3.2 few adjustments to the original logical framework and budget¹⁷ have been proposed, which are indicated and taken into account in the data of the tables of this section.

Table 5 presents the DUPC2 budget commitments (situation 2 November 2016), and estimated expenditures 2016 and 2017. The data is aggregated at DUPC2 component level and per status of projects (running, pipeline, prospect and ended).

The total DUPC2 budget commitments (in grant letters or contracts; most multi-year commitments) at the end of 2016 are expected to be around 13,5M Euro, which is about 56% of the total DUPC2 approved budget (24,145M Euro) (Appendix 3). 10,6M Euro is not yet committed. The total estimated project budget in of these committed activities in the IHE administration at the end of 2016 is 19,3M Euro (see Annex 3; not shown in Table 5), which implies an estimated co-funding of 5,8M Euro (Appendix 3).

The estimated programme expenditure at the end of 2016 is 1, 89M Euro, which is 43% of the DUPC2 approved 2016 budget available (4,4M Euro; DGIS grant letter). The 2017 budget required to implement the planned activities is an estimated 5,4M Euro.

Table 6 presents part of the data presented in Table 5 - the estimated expenditures 2016 and 2017 - at the level of results and activities in line with DUPC2 logical framework.

¹⁷ Proposal DGIS UNESCO-IHE Programmatic Cooperation 2016-2020 - DUPC 2, Solving water and development challenges worldwide by equipping people and organisations and strengthening partnerships, UNESCO-IHE, 20 November 2015.

Table 5. DUPC2 budget commitments (situation 2 Nov. 2016), and estimated expenditures 2016 and 2017 per component and project status (in Euros).

DUPC2 component (logical framework)	Status 2 Nov. 2016	DGIS approved budget DUPC2 (2016 - 2020) ¹⁸	DUPC2 budget commitments (grant allocations issued) (2)	Balance in DUPC2 grant: budget not yet committed (3) = (1) - (2)	Estimated DUPC2 expenditure 2016 ¹⁹	Estimated DUPC2 expenditure 2017 ²⁰	Balance in DUPC2 grant: expenditure (6) = (1) - (4) - (5)
		(1)			(4)	(5)	
Education and Training		3,750,000	1,329,949	2,420,051	226,108	961,337	2,562,555
	RUN (support)		n.a.		0	0	
	RUN (projects)		1,329,949		206,108	486,337	
	PIP		n.a.		20,000	80,000	
	PRO		n.a.		0	395,000	
Research and Innovation		9,949,626	6,543,001	3,406,625	632,019	2,444,912	6,872,695
	RUN (support)		n.a.		112,663	0	
	RUN (projects)		6,543,001		509,357	1,978,557	
	PIP		n.a.		10,000	66,355	
	PRO		n.a.		0	400,000	
Knowledge sharing and Networks		7,795,374	4,031,980	3,763,394	830,998	1,499,250	5,465,126
	RUN (support)		n.a.		0	0	
	RUN (projects)		4,031,980		811,310	1,036,750	
	PIP		n.a.		0	87,500	
	PRO		n.a.		0	375,000	
	END		n.a.		19,688	0	
Management and Learning		1,600,000	1,600,000	0	202,918	255,058	1,142,024
	RUN (management)		1,600,000		202,918	255,058	
'Free' budget (Section 3.2)		1,050,000	0	1,050,000	0	240,000	810,000
Total		24,145,000	13,504,930	10,640,070	1,892,043	5,400,557	16,852,400

¹⁸ DGIS approved budget DUPC2 is adjusted compared to grant letter; see Section 3.2 for proposals made.

¹⁹ For 2016 the figures are based on a best estimate extrapolated from actual expenditures as per 2 November 2016.

²⁰ 'Support' (see footnote 15) is not included in 2017 estimate (set at '0'), and will be included in the annual reporting.

Table 6. DUPC2 estimated expenditures 2016 and 2017 and grant balance in relation to the DUPC2 approved budget at result and activity level (in Euros).

See footnotes below table for explanation.

DGIS approved budget DUPC2 (2016 - 2020)	Result Logframe	Budget	Budget distribution over years					Annual Plan 2017		
		DGIS approved budget DUPC2 (2016 - 2020) (1)	2016	2017	2018	2019	2020	Estimated DUPC2 expenditure 2016 (2)	Estimated DUPC2 expenditure 2017 (3)	Balance in DUPC2 grant: expenditure (4) = (1)-(2)-(3)
Education and Training		3,750,000	570,000	795,000	655,000	900,000	830,000	226,107	961,337	2,562,556
<i>R.1 New educational products developed for existing (joint) programmes</i>			100,000	150,000	100,000	210,000	190,000			
Act.1 New educational products e.g. e-learning courses, role plays, and case studies	E&T R1 A1	750,000	100,000	150,000	100,000	210,000	190,000	30,000	90,094	629,906
<i>R.2 Quality of existing programmes up to standard and outreach and sustainability increased</i>			130,000	130,000	110,000	150,000	130,000			
Act.1 Support the quality of existing education and training programmes of partners	E&T R2 A1	500,000	100,000	100,000	80,000	120,000	100,000	71,651	324,168	104,181
Act.2 Support the quality of existing joint master programmes	E&T R2 A2	150,000	30,000	30,000	30,000	30,000	30,000	0	0	150,000
Act.3 Support joint supervision of MSc research fieldwork (joint master programmes)	E&T R2 A3	0	0	0	0	0	0	0	0	0
<i>R.3 New (joint) training and education programmes developed</i>			340,000	515,000	445,000	540,000	510,000			
Act.1 Develop and test new delivery models for joint training and education	E&T R3 A1	750,000	120,000	195,000	195,000	120,000	120,000	20,000	347,075	382,925
Act.2 Develop new joint master programmes	E&T R3 A2	600,000	20,000	120,000	150,000	160,000	150,000	0	0	600,000
+ Joint Master Water cooperation and conflict (working title) (Water Diplomacy)	E&T R3 A2	1,000,000	200,000	200,000	100,000	260,000	240,000	104,456	200,000	695,544
Research and Innovation		9,949,626	1,562,626	1,995,000	1,872,000	2,259,000	2,261,000	519,357	2,444,911	6,985,358
<i>R.1 Problem-oriented scientific knowledge and insights developed and targeted to agents of change</i>			940,000	1,365,000	1,620,000	1,995,000	2,011,000			
Act.1 Conduct integrated research projects (includes Water Diplomacy and ME as theme)	R&I R1 A1	4,956,000	500,000	800,000	1,000,000	1,300,000	1,356,000	237,513	1,165,324	3,553,163
Act.2 Conduct south-south research projects led by southern partners (includes ME)	R&I R1 A2	1,000,000	100,000	200,000	220,000	250,000	230,000	0	225,000	775,000
Act.3 Co-funding of relevant Dutch, EU, international research programmes	R&I R1 A3	1,975,000	340,000	365,000	400,000	445,000	425,000	52,727	341,355	1,580,918
<i>R.2 Academic research linked with other "agents of change" in development issues</i>			72,000	72,000	72,000	72,000	72,000			
Act.1 Conduct research on knowledge management and capacity development	R&I R2 A1	0	0	0	0	0	0	0	0	0
Act.2 Develop outreach products supporting the accessibility of research results	R&I R2 A2	360,000	72,000	72,000	72,000	72,000	72,000	8,000	92,104	259,896
<i>R.3 Piloting / demonstration projects for initial phases of innovations supported</i>			550,626	558,000	180,000	192,000	178,000			
Act.1 Pilot / demonstrate research results resulting from DUPC funded projects (includes ME)	R&I R3 A1	900,000	200,000	150,000	180,000	192,000	178,000	19,370	74,997	805,633
Act.2 Manage the Secretariat VIA (formerly Knowledge Platform)	R&I R3 A2	758,626	350,626	408,000	0	0	0	201,748	546,131	10,747

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DGIS approved budget DUPC2 (2016 - 2020)	Result Logframe	Budget	Budget distribution over years					Annual Plan 2017		
		DGIS approved budget DUPC2 (2016 - 2020)	2016	2017	2018	2019	2020	Estimated DUPC2 expenditure 2016	Estimated DUPC2 expenditure 2017	Balance in DUPC2 grant: expenditure
Knowledge sharing and Networks		7,795,374	1,807,374	1,590,000	1,585,000	1,684,000	1,129,000	830,998	1,499,250	5,465,126
<i>R.1 Regional and international discussions initiated and facilitated</i>			250,000	150,000	150,000	150,000	150,000			
Act.1 Co-organise sessions at regional and (inter)national water fora and events	K&N R1 A1	250,000	50,000	50,000	50,000	50,000	50,000	0	100,000	150,000
Act.2 Co-organise local, regional events highlighting DUPC themes or regions	K&N R1 A2	350,000	150,000	50,000	50,000	50,000	50,000	0	200,000	150,000
+ Annual seminars on water and peace (<u>Water Diplomacy</u>)	K&N R1 A2+	250,000	50,000	50,000	50,000	50,000	50,000	199	50,000	199,801
<i>R.2 Knowledge sharing of programme results to wider audiences</i>			105,000	105,000	105,000	105,000	105,000			
Act.1 Support and promote Open Course Ware, TheWaterChannel, and SDI	K&N R2 A1	525,000	105,000	105,000	105,000	105,000	105,000	21,644	131,250	372,106
<i>R.3 Targeted knowledge sharing with DGIS, EKNs and other parties</i>			345,000	355,000	465,000	540,000	520,000			
Act.1 Share knowledge with the Ministry of Foreign Affairs	K&N R3 A1	375,000	75,000	75,000	75,000	75,000	75,000	19,688	35,000	320,312
Act.2 Support regional cooperation on water (SIWI, UNESCO-IHE) (<u>Water Diplomacy</u>)	K&N R3 A2	500,000	100,000	100,000	100,000	100,000	100,000	115,065	125,000	259,935
Act.3 Support assistance to implementation UN Watercourses Conv. (<u>Water Diplomacy</u>)	K&N R3 A3	350,000	70,000	70,000	70,000	70,000	70,000	120,992	87,500	141,509
Act.4 Conduct Global Water Accounting project (UNESCO-IHE, FAO and IWMI)	K&N R3 A4	1,000,000	100,000	110,000	220,000	295,000	275,000	98,668	125,000	776,332
<i>R.4 Networks and partnerships supported, some existing supported in transition</i>			1,107,374	904,000	700,626	609,000	174,000			
Act.1 Support to relevant existing or new networks (<u>includes ME</u>)	K&N R4 A1	1,054,000	309,374	100,000	220,626	250,000	174,000	20,000	50,000	984,000
+ NBCBN (<u>includes ME</u>)	K&N R4 A1	1,101,000	268,000	274,000	200,000	359,000	0	172,492	185,500	743,008
+ WaterNet	K&N R4 A1	200,000	75,000	75,000	50,000	0	0	27,343	50,000	122,657
Act.2 Conduct the Boosting the Effectiveness of Water Operator's Partnerships (BWOP) (<u>includes ME</u>)	K&N R4 A2	684,000	273,000	273,000	138,000	0	0	144,907	141,860	397,233
Act.2 Conduct GWOPA part of Boosting the Effectiveness of WOPs (BWOP) (<u>includes ME</u>)	K&N R4 A2	456,000	182,000	182,000	92,000	0	0	90,000	143,141	222,860
<i>R.5 Organisation and quality assurance of UNESCO-IHE Global Campus supported</i>			0	76,000	164,374	280,000	180,000			
Act.1 Support joint delivery of education and research UNESCO-IHE Global Campus	K&N R5 A1	700,374	0	76,000	164,374	280,000	180,000	0	75,000	625,374
Programme management and Learning		1,600,000	320,000	320,000	320,000	320,000	320,000	315,580	255,058	1,029,362
<i>R.1 DUPC programme is adequately managed, organised and operated</i>	PM R1	1,000,000	200,000	200,000	200,000	200,000	200,000	315,580	105,058	579,362
<i>R.2 DUPC programme is communicated to target audiences</i>	PM R2	400,000	80,000	80,000	80,000	80,000	80,000	0	100,000	300,000
<i>R.3 DUPC programme learning is facilitated, supported by monitoring, eval. and reporting</i>	PM R3	200,000	40,000	40,000	40,000	40,000	40,000	0	50,000	150,000
'Free' budget (Section 3.2)		1,050,000	0	240,000	168,000	337,000	305,000	0	240,000	810,000
Totaal		24,145,000	4,260,000	4,940,000	4,600,000	5,500,000	4,845,000	1,892,042	5,400,556	16,852,401

Notes Table 6:

- For 2016 the figures are based on a best estimate extrapolated from actual expenditures as per 2 November 2016.
- DGIS approved budget DUPC2 is adjusted compared to grant letter; see Section 3.2.
- The notes of Table 5 on the previous page explained that 'Support' was expenditures for programme activities, not directly related to project activities, but contributing to the activity, for instance expenses external reviews, meetings and workshops. In Table 5 'Support' (112,663 Euro) is correctly allocated to the components where the expenditure actually has been made. In Table 6 this amount is included in Result 1 of "Programme management and Learning". This explains the different data values of columns 'Estimated expenditure 2016' and 'Balance in grant' of the Research and Innovation and Management and Learning components of tables 5 and 6.

References

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Appendix 1. DUPC2 objectives and expected results

This Appendix presents the DUPC2 objectives and expected results based on the DUPC2 logical framework of the Grant Application. In Section 3.2 adjustments to the logical framework and budget have been proposed. These are yellow shaded in this Appendix.

Education and Training Component

Objective

To enhance, the quality of problem-oriented water and development education and training, jointly offered by UNESCO-IHE and partners as well as at partner institutes, and to increase accessibility of education and training through innovations, and upscale the successful models.

Result 1. New educational products developed for uptake in existing (joint) water education and training programmes

Develop new educational products such as e-learning courses, or components of modules and courses such as role plays, case studies, and group works which can be included in more than one module or course. Introducing these education products will enrich curriculum and make it more attractive for participants. The inclusion of case studies derived from DUPC research and innovation projects will have an additional benefit, as this has the potential to strengthen the coherence between research and education. The material developed will be made available for use within the partnership e.g. to strengthen partner's and U-IHE and / or joint training and educational products, and beyond e.g. through Open Course Ware (OCW).

Result 2. Quality of training and education programmes of strategic importance enhanced, outreach and sustainability increased

Support the quality and accessibility of education and training programmes of partners in developing and transition countries, of strategic importance for the countries involved as well as partnership. Support can relate to aspects like curriculum development, training-of-trainers, quality assurance organisation, accessibility of programmes. Some of these programmes could become joint programmes in the medium term. Joint programmes and programmes that already received funding through DUPC and/or Nuffic are excluded from this facility. The budget of activity 'improvement of the quality of joint educational programmes' (Result 2 Activity 2) is proposed to be reduced, and the remaining funds to be re-allocated (Section 3.2). Result 2 Activity 3 'Support joint supervision of MSc research fieldwork (joint master programmes)' is proposed to being re-allocated.

Result 3. New innovative joint training and education programmes developed

Develop and test new delivery models for joint training and education aimed at increasing access to training and education. This facility will encourage developing and testing other delivery models jointly with partners closely related to the DUPC focus themes and enhancing accessibility of training and education e.g. programme combining face-to-face with online learning (blended learning), programmes giving more attention to coaching and on-the-job training, part-time programmes. Two types of activities can be funded: a) new joint educational MSc degree programmes, and b) the development of innovative for professional training programmes (non-degree). The development of new programmes will be informed by a needs assessment. A number of activities have already been initiated (see below). Partners are encouraged to contact us, if they are interested or wish to join.

- Graduate Professional Diploma Programme 'Water for food' (contact Annelieke Duker; a.duker@unesco-ihe.org)
- Graduate Professional Diploma Programme on 'Delta planning and management' (contact Jaap Evers; j.evers@unesco-ihe.org)

- New joint MSc programme 'Water Cooperation and Peace programme' offered by UNESCO-IHE, Oregon State University and the University of Peace, Costa Rica (contact Zaki Shubber; z.shubber@unesco-ihe.org)

Research and Innovation Component

Objective

Conduct problem-oriented research jointly with partner institutes in support of development goals for environment and water, supporting social and technological innovations, and targeted to agents of change.

Result 1. Problem-oriented scientific knowledge and insights related to the four DUPC themes developed and targeted to agents of change

Gain scientific insights related to the four DUPC themes, but equally important and based on these insights develop e.g. methods, approaches, tools, and guidelines relevant for end users, as well as strengthen their capacities to take up and apply the results in ways that will contribute to the achievement of the sustainable development goals. Each research project has a dedicated outreach component, and piloting / demonstration of research results for initial phases of technological or social innovations will be encouraged relating to Result 3.

Result 2. Academic research linked with other "agents of change" in development issues

Enhance linking academic research with other "agents of change" in development issues - i.e. policy makers, grassroots organizations, media - with a focus on the translation and targeting of existing and emerging scientific research results to non-academic audiences - policy makers, water sector organisations, private sector and civil society -, as well as linking research results to water sector capacity development. Result 2 Activity 1 'Conduct research on knowledge management and capacity development' is proposed to being re-allocated (Section 3.2).

Result 3. Piloting / demonstration projects for technological or social innovations supported

Business led development research is an approach towards more sustainable international cooperation that needs further exploration in DUPC2. Two types of activities will be supported which aim to facilitate business and semi-public involvement, and will allow for a critical review of different approaches: 1) Pilot / demonstrate research results resulting from DUPC funded projects (Result 1) for initial phases of technological or social innovations or adaptations of innovations in cooperation with the private sector and semi-public sector, and 2) support of the Secretariat of VIA Water who has evolved over the last six months into an ambitious programme for water innovation in Africa.

Knowledge sharing and Networks component

Objective

Improve access to and sharing of gained knowledge and experiences, at the level of focus themes and regions and higher, and support the role of the UNESCO-IHE Global partnership for Water and Development and related regional networks.

Result 1. Regional and international discussions initiated and facilitated

This result is supported by activities that aim to strengthen the agenda-setting role of UNESCO-IHE and partners and taking water sector capacity development and other relevant water topics to the attention of policy makers, financiers and other professionals dealing with water. The main approach is to initiate and facilitate discussions related to the DUPC objectives and themes.

Result 2. Knowledge sharing of programme results to wider audiences

Sharing of the outputs resulting from the DUPC 2 activities under the components Education and training and Research and innovation to wider audiences, including the general public, is an important target of the programme also to facilitate development impact. This will be addressed amongst others by three types of activities which were successful in DUPC 1: Open Course Ware (OCW) as an important means for making high-quality water education accessible to professionals around the world, TheWaterChannel the largest online water video collection, and Spatial data infrastructure (SDI) as a means to make spatial data available for strategic partners and wider audiences.

Result 3. Targeted knowledge sharing with DGIS, EKNs and other parties

This result aims at sharing of knowledge with the Dutch government including Embassies of the Kingdom of the Netherlands. Moreover, to strengthen riparian country commitments to regional processes that advance cooperation in regions where water is, or may become, a source of conflict (SIWI - UNESCO-IHE cooperation), to provide support to the coming into force of the UN Watercourses Convention by assisting countries to ratify or accede to it (WWF US), and to provide neutral analyses of the water accounts for some major river basins and develop governmental agencies capacities by means of the Global Water Accounting project led by UNESCO-IHE, FAO and IWMI.

Result 4. Networks and partnerships supported, some existing supported in transition

This result aims to support networks and partnerships of strategic importance for the Global Campus. Networks and partnerships are of strategic importance if they serve a clear local demand in a DUPC related theme, are locally owned and have a transparent governance structure. DUPC support will mainly focus at activities contributing to contents in terms of research and education, more than management and secretarial support. WaterNet and NBCBN are two of the existing networks who receive support to the transition to fully functional, sustainable and independent networks.

Result 5. Organisation and quality assurance of UNESCO-IHE Global Partnership supported

The Global Partnership aims to facilitate the generation, use and sharing of knowledge and experiences amongst UNESCO-IHE and partners and also in reaching out to water professionals, specialists and scientists. Important activities are to offer jointly internationally appealing and accredited educational programmes, accessible for audiences in developing and transition countries, and facilitate joint research and sharing of research data, findings and innovations among partners. The sharing of responsibility of delivering education and research and sharing knowledge requires a common organisational framework as well as strong strategic and organisational capacities to develop and implement the framework.

Management and Learning Component

Objective

The DUPC programme is managed in a professional manner, including the communication of its objectives and results, and facilitates the learning process of best approaches of addressing water and development challenges through partnership building.

Result 1. DUPC programme is adequately managed and organised

Result 2. DUPC programme is communicated to target audiences

Result 3. DUPC programme learning is facilitated, supported by monitoring, evaluation and reporting

Appendix 2. Planning of activities

This Appendix presents the planning of the 2017 identified in the Annual Plan. In Section 3.2 adjustments to the logical framework and budget have been proposed. These are yellow shaded in this Appendix. In addition, also refinements resulting from implementing the online reporting pilot are highlighted.

Component Education and Training Activity Summary

EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME <i>January – December 2017</i>				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
<p>Result 1 : New educational products developed for uptake in existing (joint) water education and training programmes</p> <p><u>Indicators:</u> - No. of new educational products</p>	E&T R1 A1	<p>Activity 1.1: Develop new educational products e.g. modules and e-learning courses <i>target: on average 5 new educational products per year; at least 1 per year explicitly addressing development relevance incl. pro-poor and/or pro-gender!</i></p>	<p>Implementati on 3 ET Projects Annual Report</p>	<p>Implementati on 3 ET Projects Call 2017 Prep, launch , Selection, Grant</p>	<p>Implementati on 3+ ET Projects Mid Year Report</p>	<p>Implementati on 3+ ET Projects</p>	<p>-CIE (for Call) -CIE for reviewing the reports</p>	<p>3 ongoing projects: 106788 106808 106794 and new upcoming projects</p>	90,094
<p>Result 2 : Quality of training and education programmes of strategic importance, including joint programmes, up to standard outreach and sustainability increased</p> <p><u>Indicators:</u> - Quality of water degree education programmes of strategic partners in developing and transition countries reviewed and up to standard - Quality of joint degree programmes reviewed and up to standard - No. of joint supervision missions to support MSc research fieldwork or joint master programmes</p>	E&T R2 A1	<p>Activity 2.1: Support the quality of existing education and training programmes of partners <i>target: at least 1 water training and education programme per year</i></p>	<p>Implementati on 4 ET Projects Annual Report</p>	<p>Implementati on 4 ET Projects Call 2017 Prep, launch , Selection, Grant</p>	<p>Implementati on 4+ ET Projects Mid Year Report</p>	<p>Implementati on 4+ ET Projects</p>	<p>-CIE (for Call) -CIE for reviewing the reports</p>	<p>4 ongoing projects: 106537 106789 106791 106810 and new upcoming projects</p>	324,168
	E&T R2 A2	<p>Activity 2.2: Support the quality of existing joint master programmes <i>target: all 7 current joint degree programmes with southern and transition partners in 2018</i></p> <p>Proposed to be reduced in total budget to 150,000 Euro (see Section 3.2)</p>							0
	E&T R2 A3	<p>Activity 2.3: Support joint supervision of MSc research fieldwork (joint master programmes) <i>target: on average 4 supervision missions per year</i></p>							0

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EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME <i>January – December 2017</i>				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
		Proposed to be cancelled (see Section 3.2)							
Result 3: New joint training and education programmes developed, partly with the same and partly with other institutes Indicators: - New delivery model for joint training and education programmes developed and tested - No. of new joint degree programmes jointly offered by UNESCO-IHE and partners and/or amongst partners	E&T R3 A1	Activity 3.1 : Develop and test new delivery models for joint training and education <i>target: 3 new programmes developed and on offer in year 2017</i>	Implementati on 2 ET Projects Water productivity training plan Annual Report	Implementati on 2 ET Projects Call 2017 Prep, launch , Selection, Grant	Implementati on 2+ ET Projects Mid year Report	Implementati on 2+ ET Projects	-CIE (for Call) -CIE for reviewing the reports	2 ongoing projects: 106790, 106793	347,075
	E&T R3 A2	Activity 3.2 : Develop new joint master programmes <i>target: at least 3 new joint programmes incl. the Water cooperation and conflict programme, the latter started in 2015 and will continue in 2016</i>	Implementati on 1 ET project Water diplomacy plan Annual Report	Implementati on 1 ET Projects	Implementati on 1 ET Projects Mid year Report	Implementati on 1 ET Projects	-CIE for reviewing the reports	1 ongoing project: 106289	200,000
TOTAL									961,337

Component Research and Innovation Activity Summary

EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME <i>2017 : January – December</i>				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
Result 1 : Problem-oriented scientific knowledge and insights related to the four DUPC themes developed and targeted to agents of change	R&I R1 A1	Activity 1.1: Conduct integrated research projects (includes Water Diplomacy and ME as theme)	Implementati on 8 R4D projects	Implementati on 8 R4D projects	Implementati on 8 R4D projects	Implementati on 8 R4D projects	-CIE for reviewing the reports	8 ongoing projects: 106470 106363 106471	1,165,324

<p>Indicators:</p> <ul style="list-style-type: none"> - No. of larger integrated research projects on focus themes and in focus regions - Percentage of larger integrated research projects on focus themes and in focus regions addressing pro-poor and/or pro-gender aspects - No. of research projects led by partners from southern or transition countries on focus themes and in focus regions - Percentage of research projects led by partners from southern or transition countries on focus themes and in focus regions, that explicitly address pro-poor and/or pro-gender aspects - No. of co-funded Dutch, EU, international research programmes contributing to DUPC objectives 		<i>target: at least 7 research projects; start first 3-4 projects in 2016; remainder in 2017; at least half of the projects explicitly addressing pro-poor and/or pro-gender aspects</i>	Annual Report		Mid Year Report			106477 106475 106476 106474 106536	
	R&I R1 A2	Activity t 1.2: Conduct south-south research projects led by southern partners (includes ME) <i>target: at least 10 research projects; start first 5 projects in 2016; remainder in 2017; at least half of the projects explicitly addressing pro-poor and/or pro-gender aspects</i>	Implementati on 5 SS Projects 2016 Annual Report	Implementati on 5 SS Projects 2016 SS Call 2017 Prep, launch, Selection, Grant	Implementati on 5+ SS Projects 2016 Mid Year Report	Implementati on 5+ SS Projects 2016	-CIE (for the call) -CIE for reviewing the reports	5 selected projects in 2016 Tbd and upcoming new projects	225,000
	R&I R1 A3	Activity 1.3: Co-funding of relevant Dutch, EU, international research programmes <i>target: at least 10 research projects; dependant on opportunities</i>	Implementati on 7 cofund projects Annual Report	Implementati on 7 cofund projects	Implementati on 7(+) cofund projects Mid Year Report	Implementati on 7(+) cofund projects	-LO Ofc - CIE for reviewin g the reports	7 Co-funding project: 106472 104476 104522 104303 106573 NWO EPFP And upcoming cofunding project	341,355
<p>Result 2 : Academic research linked with other "agents of change" in development issues</p> <p>Indicators:</p> <ul style="list-style-type: none"> - Validated action plan to reduce barriers of capacity development based on enhanced understanding of channels of uptake in society of knowledge from research, and discussed in workshops. Including the development of national capacity development strategies and recommendations for research. 	R&I R2 A1	Activity 2.1: Conduct research on knowledge management and capacity development <i>target: draft action plan based on research (2016), testing and validation of action plan in DUPC funded projects (2017-18), updated plan for 2020 and beyond with recommendations (2020)</i> Proposed to be cancelled (see Section 3.2)							
	R&I R2 A2	Activity 2.2: Develop outreach products supporting the accessibility of research results <i>target: at least 24 outreach products;</i>	Implementati on 4 OT Projects Annual Report	Implementati on 4 OT Projects OT 2017 Call Prep, launch, Selection, Grant	Implementati on 4+ OT Projects Mid Year Report	Implementati on 4+ OT Projects	-CIE (for Call) -Regional CIE (for Call)	4 ongoing projects: 106797 106795 106799 106800 And	92,104

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- No. of research products from DUPC 1 (or other) translated and targeting towards various non-academic audiences based on above recommendation								-CIE for reviewing the reports	upcoming new projects	
Result 3: Piloting / demonstration projects for technological or social innovations supported Indicators: - No. of appealing examples of social and technological innovations or adaptations of innovations (based on Result 1) tested and demonstrated with end-users or agents of change - The Secretariat of VIA Water in operation and facilitating the innovations to support improved policy implementation in Africa	R&I R3 A1	Activity 3.1: Pilot / demonstrate research results resulting from DUPC funded projects (includes ME) <i>target: at least 12 innovations or adaptations of innovations; 2 in 2016</i>	Implementation on 1 project Annual Report	Implementation on 1 project	Implementation on 1 project Mid Year Report	Implementation on 1 project		-CIE for reviewing the reports	1 ongoing project 106538	74,997
	R&I R3 A2	Activity 3.2: Manage the Secretariat VIA (formerly Knowledge Platform) <i>target: in 2017 3 to 5 active international communities created around pressing needs; the fund manager has supported around 90 innovation projects</i>	Implementation on 1 project Annual Report	Implementation on 1 project	Implementation on 1 project Mid Year Report	Implementation on 1 project		-CIE for reviewing the reports	1 ongoing project 103881	546,131
TOTAL										2,444,912

Component Knowledge Sharing and Networks Activity Summary

EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME 2017 : January – December				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017	
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners		
Result 1 : Regional and international discussions in the area of water and development initiated and facilitated Indicators: - No. of UNESCO-IHE and partners jointly co-organise led sessions at regional and (inter)national fora or events	K&N R1 A1	Activity 1.1: Co-organise sessions at regional and (inter)national water fora and events <i>target: at least 2 per year</i>	New Project Implementation tbd	Project Implementation	Project Implementation Mid Year Report	Project Implementation		-Com. Office -CIE for reviewing the reports	tbd	100,000
	K&N R1 A2	Activity 1.2: Co-organise local, regional events highlighting DUPC themes or regions	Implementation on 1 Project New projects tbd	Implementation on 1 Project New projects tbd	Implementation on 1(+) Project	Implementation on 1(+) Project		-Com. Office	1 ongoing project 106289	250,000

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EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME 2017 : January – December				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
<ul style="list-style-type: none"> - No. of local-regional events co-organised highlighting a DUPC theme or DUPC activities in focus countries and regions - No. of local-regional events co-organised highlighting a DUPC theme or DUPC activities in focus countries and regions explicitly addressing private sector and semi-public organisation involvement 		<i>target: on average min. 2 events /year; incl. the yearly water diplomacy seminar; at least 2 events explicitly addressing private sector and semi-public organisation involvement; all events addressing aspects of development relevance</i>	Water diplomacy plan Annual Report	Water scarcity Middle East seminar (linked to Arab water week)	Mid Year Report		-CIE for reviewing the reports		
<p>Result 2 : Knowledge sharing of programme results to wider audiences</p> <p><u>Indicators:</u></p> <ul style="list-style-type: none"> - No. of courses / modules available as Open Course Ware (OCW) - No. of visits to OCW - No. of visitors from DUPC focus countries of TheWaterChannel - No. of spatial data sets through Spatial Data Infrastructure (SDI) - N.o of partners contributing to Spatial Data Infrastructure (SDI) 	K&N R2 A1	<p>Activity 2.1: Support and promote Open Course Ware, TheWaterChannel, and SDI</p> <p><i>target: all courses / modules produced in DUPC 2</i></p> <p><i>target: 20% increase per year; baseline: 150 visits on average per course per year (measured over period 2013-2014).</i></p> <p><i>target: increase of 5 % by the end of 2016 and of 15% in 2020</i></p> <p><i>target: 75% of spatial data sets produced under DUPC</i></p> <p><i>target: 50 % of approx. 20 strategic partners</i></p>	Implementati on 3 Projects Annual Report	Implementati on 3 Projects	Implementati on 3 Projects Mid Year Report	Implementati on 3 Projects	-CIE for reviewing the reports	1 ongoing project 106374 2 new projects -The Water Channel -Open Edu Resource	131,250
<p>Result 3: Targeted knowledge sharing in the area of water and development with DGIS, EKNs and other parties</p> <p><u>Indicators:</u></p> <ul style="list-style-type: none"> - No. of knowledge sharing activities with the DGIS and Embassies of the Kingdom of the Netherlands (EKN) 	K&N R3 A1	<p>Activity 3.1: Share knowledge with the Ministry of Foreign Affairs</p> <p><i>target: at least 3-4 per year</i></p>	Implementati on 1 project Annual Report	Implementati on 1 Project	Implementati on 1 Project Mid Year Report	Implementati on 1 Project	-CIE for reviewing the reports	1 new project (Posdoc VIA Water)	35,000
	K&N R3 A2	<p>Activity 3.2: Support regional cooperation on water (SIWI, UNESCO-IHE) (Water Diplomacy)</p> <p><i>target: at least 2 per year</i></p>	Implementati on 1 project Water diplomacy plan Annual Report	Implementati on 1 Project	Implementati on 1 Project Mid Year Report	Implementati on 1 Project	-CIE for reviewing the reports	1 ongoing project 106289	125,000

EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME 2017 : January – December				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
<ul style="list-style-type: none"> - No. of supports to riparian countries in regional water cooperation processes - No. of countries per year assisted to ratify or accede to the UN Watercourses Convention (Water Diplomacy theme) - No. of advices to government agencies on water accounts of rivers and accounts made accessible (Global Water Accounting project) 	K&N R3 A3	Activity 3.3: Support assistance to implementation UN Watercourses Convention (Water Diplomacy) <i>target: at least 2 countries assisted per year</i>	Implementati on 1 project Water diplomacy plan Annual Report	Implementati on 1 Project	Implementati on 1 Project Mid Year Report	Implementati on 1 Project	-CIE for reviewing the reports	1 ongoing project 105256	87,500
	K&N R3 A4	Activity 3.4: Conduct Global Water Accounting project (UNESCO-IHE, FAO and IWMI) <i>target: at least 3 advices per year</i>	Implementati on 1 Project Annual Report	Implementati on 1 Project	Implementati on 1 Project Mid Year Report	Implementati on 1 Project	-CIE for reviewing the reports	1 ongoing project 106348	125,000
Result 4 : Networks and partnerships supported, some existing networks supported in transition to fully functional, sustainable and independent networks Indicators: <ul style="list-style-type: none"> - No. of regional networks supported - No. of GWOPA registered water operators that state to have significantly enhanced their capacity as a result of BEWOP resources and interventions - No. of customers served by GWOPA registered water operators that state to have improved their water and sanitation services as a result of BEWOP resources and interventions 	K&N R4 A1	Activity 4.1: Support to relevant existing or new networks (includes ME) + NBCBN (includes ME) + WaterNet <i>target: the transitional support of both the WaterNet and NBCBN networks until 2018-2019; plus two other networks supported in period 2016-2020 (to be determined)</i>	Implementati on 3 Projects Annual Report	Implementati on 3 Projects	Implementati on 3 Projects Mid Year Report	Implementati on 3 Projects	-CIE for reviewing the reports	3 ongoing projects 106257 106369 106539	285,500
	K&N R4 A2	Activity 4.2: Conduct the Boosting the Effectiveness of Water Operator's Partnerships (BWOP) (includes ME) <i>target: at least 100 GWOPA registered water operators in 2017 and 200 in 2018</i>	Implementati on 1 Project Annual Report	Implementati on 1 Project	Implementati on 1 Project Mid Year Report	Implementati on 1 Project	-CIE for reviewing the reports	1 ongoing project 106344	285,000
		Activity 4.2: Conduct GWOPA part of Boosting the Effectiveness of WOPs (BWOP) (includes ME) <i>target: approx. 25 Million customers in 2017 and 50 Million in 2018</i>	Implementati on 1 Project Annual Report	Implementati on 1 Project	Implementati on 1 Project Mid Year Report	Implementati on 1 Project	-CIE for reviewing the reports	1 ongoing project 106344	

EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME 2017 : January – December				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
Result 5 : Organisation and quality assurance of joint delivery of education and research of the UNESCO-IHE Global Campus supported <u>Indicators:</u> - No. of policies and regulations related to the organisation, standard setting and accreditation of joint delivery of education and research agreed upon and implemented - No. of partners that are “recognized by” by the Global Campus	K&N R5 A1	Activity Result 5.1: Support joint delivery of education and research UNESCO-IHE Global Campus <i>target: 25% of approx. 20 strategic partners have signed a general policy on joint delivery of education and / or research in 2016; 75% in 2020</i> <i>target: 10% of approx. 20 strategic partners in 2016; 50% in 2020</i>	New project tbd Partnership plan	New project tbd	New project tbd	New project tbd	CIE	tbd	75,000
TOTAL									1,499,250

Component Programme Management and Learning Activity Summary

EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME 2017 : January – December				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
Result 1 : DUPC programme is adequately managed and organised <u>Indicators:</u> - Technical project progress reports are timely read and proper feedbacks are given timely.	PM R1	- DUPC programme management organisation and operation. This includes the selecting of projects for funding, preparing progress and Final reports, financial statements, communication of overall programme achievements and challenges in a timely manner with DGIS and partners	Reguler CIE/ Regional Meeting Preparing Calls 2017 Annual Report	Reguler CIE/ Regional Meeting Launch & Evaluate Calls	Reguler CIE/ Regional Meeting Midyear Report	Reguler CIE/ Regional Meeting AP 2018	-CIE -Regional CIE -Prog.staff		105,058

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EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME 2017 : January – December				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
<ul style="list-style-type: none"> - Programme progress reports are finalized within the agreed time and content framework with DGIS. - Contracts and financial disbursements are arranged timely. - Financial reports are finalized in good order and on time. - All concerned parties are regularly updated on programme progress, as well as challenges. 									
<p>Result 2 : DUPC programme is communicated to target audiences increased</p> <p>Indicators :</p> <ul style="list-style-type: none"> - Communication plan developed with partners - No. of DUPC-funded projects web - No. of news coverage of results DUPC-funded projects in UNESCO-IHE and partners newsletters / other media DUPC 2 and its activities are reported in the IATI registry (International Aid Transparency Initiative) 	PM R2	<ul style="list-style-type: none"> - Communicate programme and programme results to different audiences: country level decision makers, other researchers/universities, international audience. <p><i>target: plan developed and implemented in 2016; evaluation and update in 2016</i></p> <p><i>target: all projects above 50,000 Euro have a webpage</i></p> <p><i>target: at least 10 news items per year</i></p> <p><i>target: all activities reported yearly; start 2016</i></p>	Update Website (Intra and internet) Maintain DUPC2 email, filing system	Newsletter Preparation on Webinars and web-based knowledge management	Workshop (regional or international) Mid Year Report	AP 2018	-Com. Office -CIE -Regional CIE -Prog.staff	100,000	
<p>Result 3 : DUPC programme learning is facilitated, supported by monitoring, evaluation and reporting</p> <p>Indicators:</p> <ul style="list-style-type: none"> - Monitoring protocol for the programme produced (in spring 2016) including an improved baseline and improved indicators for development relevant aspects. 	PM R3	<ul style="list-style-type: none"> - Facilitation of learning process, supported by monitoring, evaluation and reporting. This includes preparing and implementing monitoring and evaluation approaches and tools; close supervision of project progress reports and timely provision of feedbacks <p><i>target: all DUPC funded projects</i></p> <p><i>target: 75% of DUPC funded projects</i></p>	Update Logframe IATI/ AKVO Annual Report	IATI/ AKVO Identify-conduct project pilot on outcome Midyear review	Review MER Mid Year Report	AP 2018	-CIE -Regional CIE -Prog.staff	50,000	

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EXPECTED RESULTS	Results LogFram	PLANNED ACTIVITIES	TIMEFRAME <i>2017 : January – December</i>				RESPONSIBLE PARTY		Estimated DUPC2 expenditure 2017
			Q1	Q2	Q3	Q4	Internal	Implemen. Partners	
<ul style="list-style-type: none"> - M&E tools and criteria's are properly prepared and shared with all concerned parties. - No. of projects with proper monitoring and evaluation reports - No. of projects and activities that have met the set deliverables on time 									
TOTAL								255,058	

Appendix 3. Status of funding of activities

The table below is a list of all running and planned activities and shows the expected expenditures in 2017 for these activities. For reference the table also shows the total budget, the DUPC allocation and the expenditures until the end of 2016 (estimate as actual data are known until 2 November 2016 only).

Result LogFrame	Status	Project nr	Activity (long)	Project budget in IHE admin (1) = (2) plus co-funding	DUPC2 budget commitments (grants) (2)	Estimated DUPC2 expenditure 2016	Estimated DUPC2 expenditure 2017
TOTAL				19,339,985	13,504,930	1,892,042	5,400,557
E&T R1 A1	PIP	106788	E-Learning Development and Delivery for Water Professionals Indonesia	0	0	10,000	30,000
E&T R1 A1	RUN	106808	Practical experiences with treatment of Arsenic and Iron contaminated groundwater (GWDEMO)	37,453	30,046	10,000	7,512
E&T R1 A1	RUN	106794	Training course on “Building leadership capacity to drive city-to-city learning on climate adaptation”	46,880	30,330	10,000	7,583
E&T R1 A1	PRO	0	Education and Training Call 2017 (expected 6 * 30,000: 180k)	0	0	0	45,000
E&T R2 A1	RUN	106537	Desalination, Diplomacy and Water reuse in the Middle East (SCARCE)	607,500	600,000	26,651	150,000
E&T R2 A1	RUN	106789	Enhancing quality and internationalisation of education in water and sanitation at the National Water Institute (INE) of Bénin	101,016	96,361	15,000	24,090
E&T R2 A1	RUN	106791	Enhancing the Structure, Content and Outreach of the Water and Environment Masters’ Programs at Birzeit University	154,900	99,900	15,000	24,975
E&T R2 A1	RUN	106810	Strengthening Water Utility Training Centers in Uganda and Rwanda	189,912	100,412	15,000	25,103
E&T R2 A1	PRO	0	Education and Training Call 2017 (expected 4 * 100,000: 400k)	0	0	0	100,000
E&T R3 A1	PRO	0	Education and Training Call 2017 (expected 2 * 200,000: 400k)	0	0	0	100,000
E&T R3 A1	PRO	0	Water productivity training of trainers DGIS water countries in Middle East and Africa	0	0	0	150,000

E&T R3 A1	PIP	106790	Post-graduate professional training programme on Sustainable Delta Planning and Management	0	0	10,000	50,000
E&T R3 A1	RUN	106793	Graduate Professional Diploma Program on Water for Food Security	193,300	188,300	10,000	47,075
E&T R3 A2	RUN	106289	Joint MSc programme Water Cooperation and Diplomacy	184,600	184,600	104,456	200,000
K&N R1 A1	PRO	0	Regional, (inter)national sessions (expected 4 * 25000; 100k)	0	0	0	100,000
K&N R1 A2	PRO	0	Local, regional events (expected 4 * 50000; 200k)	0	0	0	200,000
K&N R1 A2+	RUN	106289	Water diplomacy seminars	65,400	65,400	199	50,000
K&N R2 A1	PIP	104991	Open Educational Resources	0	0	0	43,750
K&N R2 A1	PIP	0	The Water Channel	0	0	0	43,750
K&N R2 A1	RUN	106374	Spatial data infrastructure System Water (SDI) (Phase 2)	174,765	175,000	21,644	43,750
K&N R3 A1	RUN	0	Post-doc VIA Water	140,000	140,000	0	35,000
K&N R3 A1	END	106300	H2Online - Online course for DGIS	19,580	19,580	19,688	0
K&N R3 A2	RUN	106289	UNESCO-IHE - SIWI cooperation on transboundary water cooperation and water diplomacy 2016-2020	500,000	500,000	115,065	125,000
K&N R3 A3	RUN	105256	Promote UN Water Convention (WWF)	350,000	350,000	120,992	87,500
K&N R3 A4	RUN	106348	Water Accounting for larger river basins 2016 to 2019	500,245	500,000	98,668	125,000
K&N R4 A1	RUN	106539	Connecting regional experts from the Middle East and Nile Basin countries to contribute to solving water scarcity.	200,000	200,000	20,000	50,000
K&N R4 A1	RUN	106257	Nile Basin Capacity Building network (NBCBN) Support	741,962	742,000	172,492	185,500
K&N R4 A1	RUN	106369	WaterNet Secretariat support (phase 2)	200,000	200,000	27,343	50,000
K&N R4 A2	RUN	106344	Boosting the Effectiveness of Water Operator's Partnerships (BEWOP Phase 2) - GWOPA/UN-Habitat and UNESCO-IHE	1,140,000	1,140,000	234,907	285,000
K&N R5 A1	PRO	0	Activities to strengthen the Global Partnership	0	0	0	75,000
PM R1	RUN	0	DUPC programme management	1,000,000	1,000,000	315,580	105,058
PM R2	RUN	0	DUPC programme communication	400,000	400,000	0	100,000
PM R3	RUN	0	DUPC programme learning / MER	200,000	200,000	0	50,000
R&I R1 A1	RUN	106470	Arid African Alluvial Aquifers Labs securing water for development (A4Labs)	964,460	695,960	27,809	173,990

R&I R1 A1	RUN	106363	Enabling the assessment of alternative water supply systems to promote urban water security in the Global South (alternative WSS)	542,915	542,600	36,592	135,650
R&I R1 A1	RUN	106471	Developing the evidence-base in support of water resources management policy for sust agriculture development and environmental protection (Evidence4Policy)	1,010,642	683,407	15,416	170,852
R&I R1 A1	RUN	106477	From conflict on wastewater management in the Kidron/Al-Nar basin towards sust devt by decentralised local solutions for wastewater treatment and reuse	768,703	690,203	20,770	172,551
R&I R1 A1	RUN	106475	Water Supply and Sanitation in Small Towns: the urban rural intersection (SMALL)	1,036,990	679,030	19,036	169,758
R&I R1 A1	RUN	106476	Mitigating groundwater salinity impacts for improved water security in coastal areas under socio-economic and climate change (SALINPROVE)	701,719	625,044	89,821	156,261
R&I R1 A1	RUN	106474	Media Science and Water Diplomacy in the Nile Basin (and beyond) (Open Water Diplomacy Lab)	556,653	495,053	18,709	123,763
R&I R1 A1	RUN	106536	Water Intelligence for the Near East (WIN)	839,998	250,000	9,361	62,500
R&I R1 A2	PRO	0	South-South research collaboration Call 2016 and 2017 (expected 9 * 100,000: 900k)	0	0	0	225,000
R&I R1 A3	RUN	106472	Sustainable Hydropower and Multipurpose Storage to meet Water, Food and Energy SDG's: a Program for Collaborative Reserach and Innovation (S-MultiStor)	1,351,500	500,000	12,727	125,000
R&I R1 A3	PRO	0	NWO SDG 'Tackling Global challenges'	0	0	0	100,000
R&I R1 A3	PIP	0	Experienced Postdoc Fellowship Programme	0	0	0	50,000
R&I R1 A3	RUN	104476	Understanding Flows of Water and People in Bangladesh and the Netherlands	711,363	33,000	10,000	8,250
R&I R1 A3	RUN	104522	Strengthening Strategic Delta Planning Processes in Bangladesh, NL and beyond	724,095	100,000	10,000	25,000
R&I R1 A3	RUN	104303	Sustainable freshwater supply in urbanizing Maputo	831,000	67,000	10,000	16,750
R&I R1 A3	PIP	106573	Sustainable agricultural intensification using natural and built water storage infrastructure. An adaptive approach (SAIStor)	960,600	65,420	10,000	16,355

R&I R2 A2	RUN	106797	Customised sanitation information for aid workers, CBOs and NGOs in Darfur (Sanitation Darfur)	16,182	10,132	2,000	2,533
R&I R2 A2	RUN	106795	Web Platform Nilewaterlab.org	47,500	18,000	2,000	4,500
R&I R2 A2	RUN	106799	UNHIDE Outreach – Public engagement through live stories documentaries	20,000	20,000	2,000	5,000
R&I R2 A2	RUN	106800	Experimental Methods on Wastewater Treatment in Spanish	20,284	20,284	2,000	5,071
R&I R2 A2	PRO	0	Research outreach Call 2017 (expected 10 * 15,000; 45k)	0	0	0	75,000
R&I R3 A1	RUN	106538	Mobile Microwave based reactor unit for on-site faecal sludge treatment for the humanitarian and development WASH sector	339,989	299,989	19,370	74,997
R&I R3 A2	RUN	103881	VIA Water, supporting water innovation in Africa	747,879	747,879	201,748	546,131
			'Free' budget (see Section 3.2)	0	0	0	240,000
TOTAL				19,339,985	13,504,930	1,892,042	5,400,557