

Annual Report UNESCO-IHE 2015



UNESCO-IHE
Institute for Water Education

Annual Report UNESCO-IHE **2015**

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Rectorate's statement

2015 was a rich year for the science and water community and therefore for the Institute. We celebrated 70 years of UNESCO and 50 years of the UNESCO Hydrological Programme. We congratulated 215 graduating students, with 45% coming from our joint degree and double degree programmes. Almost 40% of the MSc students and PhD fellows active at the Institute were female. 26 PhD fellows successfully defended their theses, with an additional 130 PhD fellows active at UNESCO-IHE throughout the year. In October we welcomed 234 new students from 67 different countries, providing them with an important springboard for better water management when they return home.

The diversity of our students and staff and our work throughout the world is unique. In December we were therefore pleased to sign DUPC2, the new programmatic cooperation between the Institute and the Directorate-General for International Cooperation (DGIS) of the Dutch Ministry of Foreign Affairs (following on from DUPC1). A key principle of DUPC is 'working in partnership', which enables us to have impact on the ground through a large number of diverse projects and, at the same time, strengthen the capacities of our partners. DUPC programme activities relate to education and training, research and innovation, knowledge sharing and networking, and will help us respond to global challenges, including the refugee crisis.

This ties into another large initiative completed in 2015 – the updating of the UNESCO-IHE Strategy (2015-2020). The approval of the Governing Board demonstrates its commitment to our role in 'equipping people and organizations to solve water and development challenges worldwide'. This is the main objective of the Institute and we achieve this through our three strategic drivers: Education, Research and Innovation, and Capacity Development. We continue our successful work and furthermore have a number of new initiatives, including expanding our e-learning offerings and introducing new MSc programmes.

The adoption of the 2030 Agenda for Sustainable Development was important for UNESCO-IHE, as most of the 17 Sustainable Development Goals (SDGs) apply to our activities, and Goal number 6 is focused on access to clean water and sanitation.

2015 was a year of strengthening our ties: with the Ministry of Education, the Ministry of Infrastructure and Environment and the Ministry of Foreign Affairs, with

which we launched the project 'Strengthening Small Island Developing States' capacity in the water sector to cope with the effects of climate change', and with the Science sector of UNESCO, including UNESCO-IHP. We also continued our close relations with the Dutch Water sector and our partners around the globe.

The work of the Institute recognises the importance of water for human rights and dignity, for sustainable development, for lasting peace.

With best regards,

The Rectorate, ad interim
Dr. Fritz Holzwarth
Dr. Johan A. van Dijk

UNESCO-IHE at a glance

Institutional profile

Vision

UNESCO-IHE envisions a world in which people manage their water and environmental resources in a sustainable manner, and in which all sectors of society, particularly the poor, can enjoy the benefits of basic services.

Mission

The mission of UNESCO-IHE is to contribute to the education and training of professionals, to contribute to the knowledge base through research, and to build the capacity of sector organizations, knowledge centres and other institutions active in the fields of water, the environment and infrastructure in developing countries and countries in transition.

Mandate

The institute has the UNESCO mandate to play a global role in training a new generation of water professionals, facilitating the development of capable organizations and providing an enabling environment for well-informed decision-making that will achieve integrated improvement in water management practices. Related academic activities are mostly done in collaboration with partners worldwide, with a specific focus on developing and transition countries.

Goals

In support of its mission, the Institute has three main goals:

- Generate new knowledge, facilitate innovations, and promote the uptake of technologies and policies that will address the issues of the global water agenda, in particular those related to the Millennium Development Goals (MDGs) and the Agenda 2030 Sustainable Development Goals (SDGs);
- Seek, evaluate and facilitate responses including the development of human capital for the sustainable management of water, to meet the needs of all sectors of society, particularly the poor; and
- Strengthen and promote principles of good governance that drive institutional and management change to support the sustainable management of water.

Core activities

UNESCO-IHE carries out education and training, research and innovation, and capacity development activities in the broad fields of water engineering, water management and governance, aquatic environment, water supply and sanitation.

Education and training

UNESCO-IHE offers both degree programmes (MSc and PhD levels) and non-degree programmes (short courses, online courses and tailor-made training) for engineers, scientists and professionals from various disciplines working in the water, environment and infrastructure sectors. UNESCO-IHE implements its educational activities with partner institutes worldwide, making water education more accessible and affordable for an increasing number of students.

Research and innovation

The Institute's research activities concentrate on six main research themes and contribute to the knowledge base concerning the water environment, thereby complementing its education and capacity development activities. Significant parts of the research programme are done through PhD research (in programmes implemented in cooperation with partner universities), MSc thesis research and post-doctoral research programmes.

Capacity development

UNESCO-IHE engages in institutional strengthening projects and provides advisory services to knowledge institutes, water sector organizations, knowledge networks and UNESCO member states. Through these operations, the Institute increases its global impact and helps to build sustainable organizations that are equipped to properly manage water resources and deliver water services sustainably. The Institute also has a policy forum function and acts as an intermediary between science and policy making.

Strategic Directions

Aim

Water is critical to the world's prosperity and environmental sustainability and is expected to grow in importance even further over the coming decades. Meeting the global challenges requires a strong foundation of knowledge, to enable well-informed decision-making and improve water management practices. This places water issues very high on the international political agenda, and water is critical for the development for the post-2015 development agenda and Agenda 2030 Sustainable Development Goals (SDG) as currently formulated.

The challenges for water education and capacity development are enormous. Global environmental changes will expose our future graduates to water problems of unprecedented complexity and magnitude, as the (global and regional) changes introduce new drivers and pressures on the systems that have not been experienced before. In relation to this, employers of water professionals expect their staff to continue learning throughout their professional lives to keep abreast of the latest knowledge and skills in the water sector. Not only for employers, but in particular for the individuals themselves and universities, continuous professional development (CPD or lifelong learning) is essential.

The water and environment sector faces particular capacity challenges. The projected personnel and relevant skills shortages in developing countries and countries in transition are extremely critical for sustainable development. This must be addressed systematically by closing the gap: training young, ambitious and talented water professionals and providing a lifelong learning

context that effectively transfers existing knowledge, generates new knowledge, and equips professionals with the skills and competencies they need to be effective.

Therefore, the strategic aim of the Institute is to increase its impact and outreach over the next decade, through the Institute's growing stature as a world-class centre of water education, research, and capacity development in the frame of UNESCO Science.

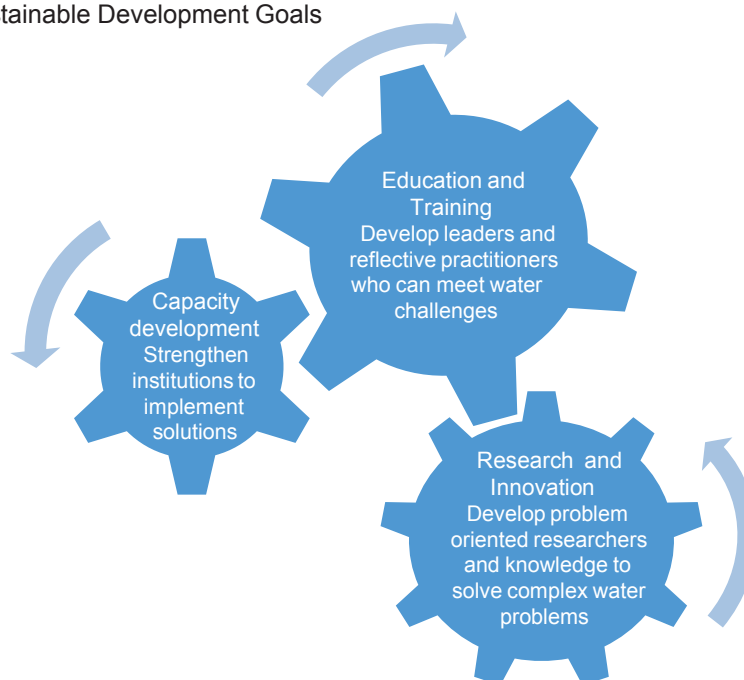
UNESCO-IHE Strategy 2015-2020

In November 2015 the new strategy was approved by the Governing Board. It had been prepared by a strategy group with substantial input from task groups representing the education, research and innovation and capacity development activities of the Institute. Also, the findings from a stakeholder event organised by the Institute in April 2015 were included and the Rectorate was grateful for the input of those partners who participated.

Executive Summary of the UNESCO-IHE Strategy 2015-2020

Equipping people and organizations to solve water and development challenges worldwide, contributing to the UN Sustainable Development Goals

Uniqueselling point:
Cross-cutting expertise in entire spectrum of water disciplines, working with long-term partners from southern and transition countries for local impact, Netherlands based with strong links to Dutch and international watersector



Strategy objectives 2015 - 2020: - Maintain and improve quality
- Expand global presence and achieve stronger societal impact

Education and Training

- Incorporate our education philosophy in all products
- Broaden our educational offerings for lifelong learning
- Substantially increase e- and blended learning
- Start moving towards a 12/24 months' MSc system
- Better position and make use of joint and double degrees

Research and Innovation

- Structure research along themes and high profile issues
- Stronger focus on and better measure and communicate impact on the ground
- Facilitate innovation through the establishment of demo-sites and open labs
- Further establish and institutionalise the Graduate School
- Increase our presence in international research and innovation initiatives

Capacity Development & Institutional Strengthening

- Tailor and articulate capacity development advice and services to local demands
- Conduct longitudinal research on capacity development projects; publish and discuss the results with beneficiaries
- Record and learn from project experiences for ongoing quality enhancement

Strategy objectives 2015-2020: - Enhance institutional resilience

Finance:	Enhance cost efficiency, Invest 'core' or base funding strategically; ensure compliance with changing rules, regulations and policies
Organisation	Create open, collaborative culture; develop a process based approach for a more responsive and resilient organization; improve / simplify supporting processes; increase visibility of Institute
Funding:	Implement targeted acquisition and marketing campaigns to diversify funding sources; increase success rate of EU and other international funding; better with less and more through matching
Capacities:	Attract and retain talented staff for collaborative, cross-disciplinary working; introduce set of key performance indicators (KPIs) to monitor and evaluate progress; update AFAS and ICT systems
Budget:	Most activities proposed are budget neutral or require reallocation of existing budgets / time

Organizational Structure

Rectorate & Roles

The day-to-day management of the Institute is handled by the Rectorate, which consists of the Rector (vacant since November 2014), the Vice Rector of Academic and Student Affairs (Officer in Charge), and the Business Director.

The Rectorate reports to the UNESCO-IHE Governing Board about programmatic issues and to the IHE Delft Foundation Board on financial matters. The Rectorate provides leadership to three academic departments and six process management units.

Governing Board

The Governing Board comprises representatives of ministries, universities and the private sector, all appointed by the Director-General of UNESCO.

The functions of the Governing Board are:

- to determine, within the framework decided by the General Conference, the general policy and the nature of the Institute's activities through a set of guidelines for the development of the Institute's programme, including a balance of priorities within the programme;
- to adopt the programme of work and its budget estimates;
- to examine the biennial and other reports on the activities and expenditures of the Institute prepared by the Director and to advise the latter on the execution, evaluation and follow-up of the Institute's programme and other matters he/she may bring to its attention;
- to submit the biennial report on the Institute's activities to the Executive Board and to the General Conference;
- to submit through the Director-General proposals to the Executive Board and the Intergovernmental Council of the International Hydrology Programme for appropriate action by the General Conference with regard to the programme of work of the Institute.

For a complete list of Governing Board members, refer to Annex 7 - Committees.

Foundation Board

The Foundation provides the buildings and facilities that UNESCO-IHE uses, and employs most of UNESCO-IHE's staff. The IHE Delft Foundation Board, responsible for management of the Foundation, is also responsible for providing the Institute with the resources for the implementation of contracts with third parties and

consequently bears the financial risks and responsibilities attached thereto.

The Foundation owns the buildings and facilities that UNESCO-IHE uses, and employs most of UNESCO-IHE's staff. The IHE Delft Foundation Board, responsible for management of the Foundation, is also responsible for providing the Institute with the resources for the implementation of contracts with third parties. They consequently bear the financial risks and responsibilities attached to contracting, and are responsible for safeguarding the continuity of the Institute's operations by overseeing the finances and ensuring proper embedding of the Institute in the Dutch legal systems. [Source: article 3.2 from the Cooperation Agreement (second renewal)].

For a complete list of Foundation Board members, refer to Annex 7 - Committees.

Academic Departments

UNESCO-IHE has three Academic Departments with academic staff responsible for education, training and research programmes. These are the Environmental Engineering and Water Technology, Water Science and Engineering, and Integrated Water Systems and Governance departments.

Each Academic Department is composed of Chair Groups, each of which is formed around a particular discipline or specialization. To see how the Academic Department relate to the Chair Groups, refer to Annex 4 - Research Lines.

Process Management Units

The work of the Academic Departments is supported by the Institute's Process Management Units. These include Central Services, the Education Bureau, Finance, Human Resource Management, IT, and the Office of the Rector.

UNESCO-IHEs Organizational Chart can be viewed in Annex 6.

Partnerships & Networks

'Working in partnership' is the preferred approach adopted by UNESCO-IHE. The majority of the activities are done in partnership, mainly working with partners from developing countries and countries in transition.

Partners are often other academic institutions, but also include ministries and departments, companies and private sector organizations, water boards and water utilities, municipalities, NGOs, UNESCO institutes and other UN and international organizations.

Bilateral Partnerships

At present, UNESCO-IHE has cooperation agreements with institutional partners worldwide. The following institutional agreements were signed or renewed in 2015.

For a full list of UNESCO-IHE's Cooperation Agreement partners, as well as Joint Education and Joint Research partners, refer to Annex 10 - Partners.

Contribution to UNESCO's programmes & activities

As an integral part of UNESCO, UNESCO-IHE is an essential member of the UNESCO Water Family as a major pillar providing water education and research and, consequently, plays a clear role in fulfilling UNESCO's general mission: 'Building peace in the minds of men and women'. The Institute directly contributes towards UNESCO's medium-term strategy which presents the strategic vision and programmatic framework for 2014-2021 in all its fields of competence.

Signed	Partner	Goal
September 2015	Chandigarh University, India	Identify opportunities for staff exchange and to enable Chandigarh staff to pursue education at UNESCO-IHE
Renewed November 2015	Deutsche Wasserhistorische Gesellschaft (DWhG)	To exchange information, do joint research and cooperate in developing and implementing courses on the history of water management.
January 2015	Middle East Desalination Research Center (MEDRC)	Joint proposals submissions, development of joint events, knowledge exchange, joint initiatives to build Palestinian research capacity, initiatives to assist individual Palestinian researchers.
Third renewal April 2015	Ministry of Infrastructure and Environment, The Netherlands	To contribute to the International Agenda (beyond EU) and the Innovation Agenda of the Ministry for Sustainable Water Management and the Nexus with other sectors
April 2015	Oregon State University and University of Peace	Arrangements for a joint programme in Water Cooperation and Peace
Renewed May 2015	Organisation of American States (OAS)	OAS covers 25% of the tuition cost for up to four online sanitary engineering professional courses
August 2015	The Nature Conservancy Agreement	To create the first chapter of a self-paced e-learning course on environmental flows
January 2015	The Stockholm International Water Institute (SIWI)	Pooling of SIWI and UNESCO-IHE knowledge resources on transboundary issues; on a needs basis, UNESCO-IHE will contribute to the implementation of the Shared Waters Partnership program; contribute to efforts supporting EU coherence in the area of water diplomacy; address and exploring innovative approaches to promote and facilitate transboundary water cooperation and build trust, confidence, mutual respect and promoting collaboration between riparian countries
February 2015	University of Geneva	Developing a joint education program and continuing education in the field of water governance and water policies, developing a joint research agenda on selected projects and developing joint events
Renewed March 2015	Vitens Evides International	research on the green utility, stages of utility development, service provisioning in small towns and water operator partnerships. Delivery of a 3 week module part of the MSc in WM, further develop the water utility simulation game, development of joint short course on water utility management, joint organisation of seminars.
June 2015	WaterLex	Development of a joint research program, strengthening of academic network of water governance researchers, activities related to education, research and capacity development aiming to improve water governance through the work of parliamentarians and law makers and other water diplomacy related activities

UNESCO-IHE at a glance

More specifically, the Institute adds to the strategic objectives of the Natural Science Sector of UNESCO:

- Strengthening science, technology and innovation systems and policies – nationally, regionally and globally; and
- Promoting international scientific cooperation on critical challenges to sustainable development.

Through implementing its research and innovation agenda, the Institute works towards the main goal of UNESCO's International Hydrological Programme (IHP) to facilitate an interdisciplinary and integrated approach to watersheds, aquifer management and water resources, and to promote and develop international research in hydrological and freshwater sciences. Within IHP's current strategic plan entitled 'Water Security: Responses to Local Regional and Global Challenges' (IHP-VIII for 2014-2021), UNESCO-IHE is contributing to all themes. The thematic overlap between IHP-VIII and the research and innovation agenda is estimated to be as much as 80%, based on currently ongoing PhD research topics. In particular, the Institute plays a lead role in water education (theme 6), through promoting interdisciplinary and multidisciplinary curricula and research initiatives linked to water, joint courses and research with a focus on innovation, among universities and other research institutions, including Category 2 water centres and UNESCO water chairs. The Institute is spearheading research on topics central to IHP, including water-related disasters in a changing environment, ecohydrology, climate change/climate change adaptation, urban water management, transboundary groundwater, water governance and pro-poor sanitation.

UNESCO-IHE contributes to the PCCP programme of UNESCO (from Potential Conflict to Cooperation Potential) that facilitates multi-level and interdisciplinary dialogues in order to foster peace, cooperation and development related to the management of transboundary water resources. Therefore, various education activities are carried out, such as high-level training courses, and the establishment of a new joint MSc programme with the University of Peace (Costa Rica) and Oregon State University (USA). Research on water conflicts and cooperation is also an essential part of the Institute's research agenda. In 2015, in the framework of the UNESCO IHP project (GGRETA), the Institute organized jointly with the International Groundwater Assessment Centre (IGRAC; category 2 centre under the auspices of UNESCO), its in-house partner, a tailor made training course on advanced groundwater monitoring and analysis for a group of groundwater professionals from Uzbekistan. Another tailor made training course was organized

on Groundwater data collection and interpretation for Caribbean countries in St. Kitts and Nevis coordinated by the UNESCO Regional Office for Science in Latin America and the Caribbean (Uruguay). Finally, UNESCO-IHE contributed to the World Water Development Report 2016 on "Water and Jobs", particularly to the chapters on addressing capacity development needs and on scientific and technological innovation.

The Institute contributes to UNESCO by implementing its research and innovation agenda and building institutional and human capacity in science and engineering in the field of water and environment. Its particular focus is on activities that contribute to sustainable development. It implements capacity development projects that provide support to water sector institutions, and supports the set-up and strengthening of water education and research at local universities. The Institute contributes towards strengthening the science-policy-society interface with respect to water and the environment.

UNESCO-IHE is supporting UNESCO member states by working towards improving the accessibility of tertiary water education. This is done by increasing the number of joint programmes offered in collaboration with partner institutions from the developing world, and by increasing the flexibility of the educational offerings in terms of distance learning, funding modalities, and exchange of university credits. Capacities are built through thousands of professionals from developing countries and countries in transition trained at the MSc level and in short courses (e-learning or face-to-face) on water-related issues. In this manner, UNESCO-IHE directly contributes to reducing the scientific knowledge divide between and within developing countries and countries in transition and the industrialized world.

UNESCO-IHE also plays a critical role in addressing UNESCO's two global priorities areas: Africa and gender equality. Through its capacity development, research and education services, its large alumni network and long-standing partner organizations, including UNESCO Category 2 institutes and UNESCO chairs related to water, UNESCO-IHE has a very successful history of supporting sustainable development in Africa. Likewise, the Institute supports the development of (water) organizations that provide an enabling environment for both women and men to contribute to and enjoy the benefits of sustainable development of water resources. Notably, around 90% of the participants of the education and training programmes of UNESCO-IHE are from developing countries and countries in transition; about 40% are female and about 35% are from Africa.

Collaboration with the Dutch education sector

UNESCO-IHE is firmly embedded in the Dutch higher education sector. The education programmes are implemented in accordance with Dutch legislation and the Master's programmes are accredited by NVAO (Dutch Flemish Accreditation Organisation), which provides the quality framework and facilitates the international recognition of the degrees. UNESCO-IHE is a signatory to the 'code of conduct with respect to international students in Dutch higher education', which guarantees a service level to international students and allows for shorter immigration procedures for students.

The cooperation with Dutch universities is based on the cooperation in many joint research, education and capacity building projects implemented mainly in the developing world. The cooperation is facilitated through joint appointments of staff and guest lecturers; more specifically, each professor of UNESCO-IHE has an appointment at one of the Dutch universities. This ensures links with the relevant chair groups at these universities and gives the professors the right to award PhD degrees. PhD promotions are conferred jointly with Dutch universities, based on their right to award PhD degrees as stipulated by the Dutch Higher Education Act.

UNESCO-IHE presently has ties with Delft University of Technology, Wageningen University, ISS/Erasmus University of Rotterdam, the University of Amsterdam, and Twente University. Through its membership in the Socio-Economic and Natural Sciences of the Environment Research School (SENSE), a joint venture of the environmental research institutes of Dutch academic institutes, the Institute collaborates with groups of other Dutch universities, particularly VU Amsterdam, Utrecht University, Leiden University and the Open University.

UNESCO-IHE is an active member of the Platform for International Education, an association that promotes activities of the Dutch institutes for higher education in the field of the institutional strengthening of education and research capacity in developing and transition countries.

Ties to Dutch water sector

UNESCO-IHE's link to the Dutch water sector is important, as it provides access to specific knowledge and experiences, adding to the relevance of the Institute in the Dutch socioeconomic context. The linkages are mainly shaped through guest lecturing and cooperation in capacity development and research projects. UNESCO-IHE is a member of the Netherlands Water Partnership and part of the Technological Innovation Campus Delft, and

individual staff members have affiliations with a variety of Dutch professional associations. Match-making activities are organized to facilitate contacts between the sector and alumni as well as with students of UNESCO-IHE, such as the annual Water Sector Market.

The Institute contributes directly to various objectives and programmes of the Government of the Netherlands. The DGIS–UNESCO-IHE Programmatic Cooperation (DUPC-2) is a special fund that contributes to the Dutch development cooperation and trade agenda and ambitions of the Ministry of Foreign Affairs. This agenda is increasingly linked to the economic development agenda of the Ministry of Economic Affairs, and the “being connected” agenda of the Ministry of Infrastructure and Environment. With its academic and project work, UNESCO-IHE contributes directly to the Top Sector for Water; significant contributions are also made to several other Top Sectors, including agriculture/food, life sciences and health, and energy.

UNESCO-IHE is one of the twelve formal programme partners of the Valorisation Programme Delta Technology & Water (VPdelta). VPdelta works from the heart of the triple helix of climate change, global population growth and increasing urbanization to develop practical innovations for the delta of tomorrow. VPdelta was set up to promote entrepreneurship and increase and accelerate the development of innovative delta solutions.

Performance agreement

In 2014, the performance indicator report for the Dutch Ministry of Education, Culture and Science (OCW) was finalized in compliance with the Dutch Higher Education law. This medium-term indicator report covers educational quality and success rates, educational and research profiles and valorization.

During the negotiations for the renewed operational agreement between the Government of the Netherlands and UNESCO for the 2014-2018 period, it was agreed that the funding of the Institute for 2017 and 2018 will be subject to an evaluation in early 2016. This will assess the Institute's performance in education, research and valorization of knowledge in assisting developing countries and countries in transition. This Annual Report includes a list of relevant indicators as stipulated in the performance indicator report.

Focal themes & linkages

UNESCO-IHE centres its education, research and capacity development programmes on the focal themes of:

- Safe Drinking Water & Sanitation
- Water-Related Hazards & Climate Change
- Water & Ecosystems Quality
- Water Management & Governance
- Water, Food & Energy Security
- Information & Knowledge Systems

In addition, important emerging areas are addressed in the education and research programmes, such as water conflict management, climate and global change adaptation, and urban water systems. The thematic priorities are solidly embedded in ongoing international programmes, including UNESCO's IHP-8 (2014-2020) programme, ICSU's Future Earth, and IAHS' Panta Rhei. Progress on these themes will be essential to contribute to address the Grand Challenges formulated by the EU Horizon 2020 programme. The critical importance of these thematic programmes is confirmed by the interest of donors, which led to large research and capacity building programmes financed by, for instance, the Bill and Melinda Gates Foundation and Rotary International.

Nationally, UNESCO-IHE is linked to various research and innovation programmes, such as: the NWO programme on urbanizing deltas, MVI water (NWO), initiatives related to the Top Sector on Water, Water Mondial, Knowledge Platform on Water for Development (VIA Water). Furthermore, specific support is given in addressing their spearhead actions of the Dutch government policies on trade and development cooperation as related to water. More specifically, UNESCO-IHE contributes to their agenda through:

- Developing the capacity of water sector organizations, institutes and individuals in order to become self-learning, to be capable of setting their own policies and practices, to conduct sustainable water management and be internationally connected; to be capable of reducing dependency on foreign expertise;
- Enlarging, making accessible, disseminating and applying practical knowledge and skills on good water management in developing and transition countries, also by linking to Dutch know-how and expertise;
- Using and linking to existing networks to stimulate demand-driven cooperation between water professionals and institutions and stimulating the private sector with relevant knowledge towards public-

- private partnerships in the field of water; and
- Acting as a knowledge broker and advisor for DGIS and the Embassies of the Kingdom of the Netherlands. Helping to implement agendas such as water diplomacy, in which UNESCO-IHE's neutral UN position plays a helpful role.

Education

MSc programmes & specializations

MSc PROGRAMME IN ENVIRONMENTAL SCIENCE	
Environmental Planning and Management	Db
Environmental Science and Technology	J Db
Environmental Technology and Engineering	J EU
Environmental Technology for Sustainable Development	J
Limnology and Wetland Management	J
Water Quality Management	Db
MSc PROGRAMME IN URBAN WATER AND SANITATION	
Sanitary Engineering	J Db
Urban Water Engineering and Management	J
Water Supply Engineering	J Db
MSc PROGRAMME IN WATER MANAGEMENT	
THEMATIC PROFILES	Db
Water Conflict Management	
Water Quality Management	
Water Resources Management	
Water Services Management	
MSc PROGRAMME IN WATER SCIENCE AND ENGINEERING	
Ecohydrology	J EU
Flood Risk Management	J EU
Hydraulic Engineering and River Basin Development	Db
Hydraulic Engineering - Coastal Engineering and Port Development	J Db
Hydraulic Engineering - Land and Water Development	J Db
Hydroinformatics - Modelling and Information Systems for Water Management	J Db
Hydrology and Water Resources	J Db

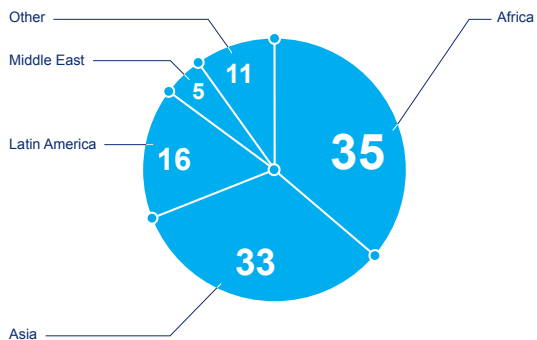
- Db Delft/based MSc specializations
- J Joint programme
- EU Joint Erasmus Mundus programme

Joint Programme Partners map

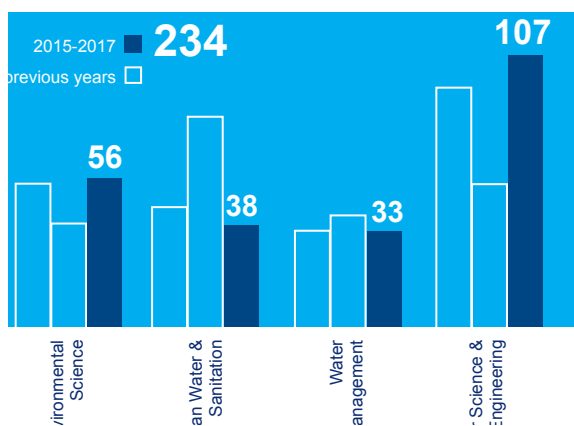


Education

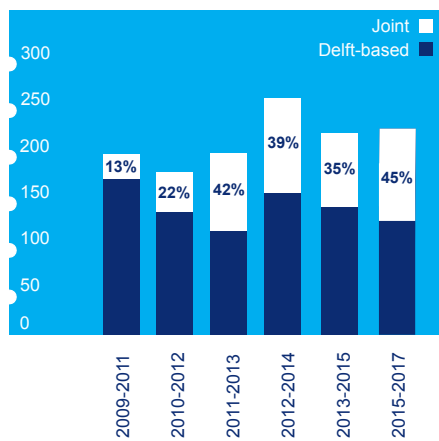
Students' region of origin academic year 2015/2016



MSc students per programme



Joint/Delft-based MSc students per academic year



Performance indicators education

Quality of education		2012	2013	2014	2015
E1	MSc student success rate (%)	94	93	92	92
E2	Student satisfaction (1-5 scale)	3.95	3.83	4.09	4.09
E3	Teaching staff quality (% UTQ)	20.2	26.1	25	25
Development relevance and valorization		2012	2013	2014	2015
E5	MSc graduates per year (No.)	175	184	238	186
E6	Short course participants per year (No.)	359	378	585	846
E7	On-line course participants per year (No.)	105	122	147	165
E8	MSc programmes intake (% from d/t countries)	86	90	91	88
E9	Short courses intake (% from d/t countries)	93	89	89	85
E10	On-line courses intake (% from d/t countries)	59	65	65	49
E11	On-line course offering (No.)	9	9	9	10
Efficiency		2012	2013	2014	2015
E15	Teaching/management/coordination input (hrs/module)	248	251	249	262
E16	MSc thesis supervision input (hrs/graduate)	94	87	80	74

Quality of education

- E1** MSc student success rate: being the percentage of students in the Delft-based programmes that has graduated by 1st August (i.e. 21.5 months after enrolling in the 18-months programme).
- E2** Student satisfaction: being the overall judgment of the students in the Delft-based MSc programmes on a scale 1 (low) to 5 (high).
- E3** Teaching staff quality: being the percentage of academic staff on the payroll with a University Teaching Qualification or equivalent (on 31 December).

Development relevance and valorization

- E5** Number of graduates MSc programmes: being the total number MSc students graduating in this year.
- E6** Number of short course participants: being the total number short course participants (including tailor made courses, refresher courses etc, i.e. all courses for which participants receive a diploma) in this year.
- E7** Number of online course participants: being the total number of participants that followed an accredited online module/course in this year. Note that the total number of online participants has been much higher (>200), but the modules were not accredited. The ambition is to significantly increase the number of accredited modules to assurance the quality.

- E8** MSc programmes intake from d/t countries: being the percentage of registered MSc students originating from developing/transition countries.
- E9** Short courses intake from d/t countries: being the percentage of participants in accredited short face-to-face courses originating from developing/transition countries.
- E10** Online courses intake from d/t countries: being the percentage of participants in accredited online courses originating from developing/transition countries.
- E11** Online course offering from d/t countries: being the number of accredited online courses offered.

Efficiency

- E15** Teaching and management/coordination input: being the average number of academic staff person hours spent per taught module in the MSc programmes.
- E16** MSc thesis supervision input: being the average number of academic staff person hours spent per graduate on thesis research supervision.

Education

Research

Performance indicators research

Quality of research		2012	2013	2014	2015
R1	Publication outputs (No.)				
	- Peer-reviewed journal article	268	254	260	248
	- Books	13	0	5	4
	- Book chapters	40	26	23	29
	- Conference papers	143	197	102	50
	- H-index of the Institute	58	59	69	79
	- Citation count	13,246	13,623	19,904	21,667
R2	Staff meet SENSE (SEP) criteria (No.)	23	39	48	48
R3	Academic staff with PhD (%)	81	89	81	76
R4	Scientific presentations (No.)	average 183	317	201	194

Development relevance and valorization		2012	2013	2014	2015
R6	PhD students (No.)	131	139	136	130
R7	PhD graduations per year (No.)	16	17	16	26
R8	Journal articles with partners d/t countries (%)	average 73	80.5	76.4	89.5
R9	Outreach presentations (No.)	average 34	42	65	69
R10	International academic staff (%)	47.8	46	52	47.9
R11	PhD graduates from d/t countries (%)	average 93	93.8	75	84.6

Quality of research

- R1** Publication outputs: The scientific impact of the research is measured through:
- (i) the number of peer/reviewed journals articles per year,
 - (ii) the number of books (excluding PhD theses) per year,
 - (iii) the number of book chapters per year,
 - (iv) the number of papers in conference proceedings per year,
 - (v) the H/index of the Institute count (accumulative), and
 - (vi) the citation count (accumulative);
- (v) and (vi) are based on the SCOPUS data base (that includes the vast majority of peer/reviewed journals articles from 1996 onwards).
- R2** Number of staff meeting the SENSE (SEP) requirements: The number of academic staff members that meet the requirements to be member of a research school like SENSE (in line with Standard Evaluation Protocol (SEP) by KNAW/VSNU/NWO from 2009).
- R3** Academic staff with PhD: The percentage of academic staff members holding a PhD degree employed on 31 December of the respective year.
- R4** Number of scientific presentations: The number of oral presentations at scientific conferences per year.

Development relevance and valorization

- R6** Number of PhD students: The number PhD students registered at the Institute and (co) supervised by its academic staff members.
- R7** PhD graduations per year: The number of graduating PhD researchers per year.
- R8** Publications with partners from the d/t countries: The number of journal articles with jointly published with partners/co/authors from developing countries and countries in transition.
- R9** Number of outreach presentations: The number of oral presentations at science/policy fora (e.g. SWWW, WWF, etc.) or to the general public.
- R10** % International staff: The percentage of international academic staff members employed on 31 December of the respective year.
- R11** % PhD graduates from d/t countries: Percentage of PhD graduates per year that originate from developing countries and countries in transition.

Research

Home base

Context

UNESCO-IHE Institute for Water Education brings employees, PhD fellows, students, visitors, participants and partners from all corners of the world together on the 14,000 square meters of its premises in Delft's historic city centre. But the Institute is more than just a physical location and the wide range of services it offers, it is also the people who work, study and meet there.

Human resources

To fulfil the human resources requirements of the Institute, the specific HR management objectives are to:

- maintain or, if needed, improve the Institute's role as an attractive national and international employer in the academic world and to attract scientific staff of the highest calibre through recruitment and hiring, international mobility, and remuneration;
- create an environment in which employees are continually encouraged and enabled to develop their technical, professional and personal skills, through performance and development management and review;
- maintain healthy and good employer/employee relations by creating a safe and constructive work environment, through occupational health and safety management and diverse and inclusive hiring practices; and
- ensure that human resource management policies and practices are always up to date and meet all legal requirements for employee benefits and insurance as specified by labour legislation.

UNESCO-IHE adheres to the Collective Labour Agreement (CAO) of Dutch Universities and has a diverse range of HRM policies in place that apply to all staff and that focus on performance and development management, recruitment and termination, appraisal and remuneration, health and safety, work relations, employee benefits and insurances, and international mobility and diversity.

Performance and development management

UNESCO-IHE's Performance and Development Management (PDM) system strengthens academic leadership and provides a clear and transparent career development system with standardized academic levels and related requirements.

The Institute implements strategically embedded career planning. This means that the Institute's strategic objectives determine the course and direction of a department or a process management unit and, ultimately, the individual's opportunities for development.

The PDM system provides clear job descriptions and numeric and qualitative standards for all academic staff who are required to perform in the fields of education, research and knowledge and capacity development in accordance with these criteria, specified by academic level. Promotions of academic staff are based on achievement of high academic outputs, on involvement in the scientific community, and outreach/societal impact.

Promotions depend on fixed criteria and the evaluation of individual performance. A nomination advisory committee (NAC) is convened in the case of a promotion to level of Professor or Associate Professor. Every five years, formal reassessment takes place and may, in the case of underperformance, result in demotion.

Performance indicators business

Business indicators	2012	2013	2014	2015
B7 Overhead (%)	29	28	27	28
B8 Non-academic staff contingent (%) *	48	49	48	47
B9 Knowledge exchange events with the private sector (No.)	2	39	5	3
B10 Alumni assistance/cooperation requests (No.)	10	20	50	50
B11 UNESCO-IHE mentioned in media (No.)	-	400	427	667
B12 Unique visits website (No.)	341,615	340,692	331,604	390,000

* For the breakdown of the employee population refer to the graphic on the next page.

B7 Overhead (%): To monitor the efficiency of staff, the percentage of overhead (based on the Berenschot method 1a) is given.

B8 Non/academic staff contingent (%): The percentage of non/academic fte's staff relative to total staff.

B9 Knowledge exchange events with the private sector (number): The number of events at the Institute dedicated to knowledge exchange with private sector participation initiated or facilitated by UNESCO-IHE, where UNESCO-IHE acts as intermediary between the Dutch and international water and knowledge sectors.

B10 Alumni assistance/cooperation requests: The number of requests put forward to the UNESCO-IHE Alumni network to assist with student acquisition, project acquisition or advisory service to the Institute itself or public and private partners.

B11 UNESCO-IHE mentioned in media: The number of times UNESCO-IHE is mentioned in international online media (excluding social media).

B12 Unique visits website: The unique UNESCO-IHE website visits per year.

Development of gender ratios

	2012		2013		2014		2015	
Total fte staff (% female)	166	36.0	160	40.0	173	40.0	169	41.8
Non-academic staff fte (% female)	74	56.2	78	57.3	82	60.0	80	59.9
Academic staff fte (% female)	85	22.8	82	25.0	91	24.0	89	25.5

Academic staff: gender & scale figures

Academic staff	Male	Female	% academic females at UNESCO-IHE	% females NL academic institutions (2014)
Lecturers	10	8	44.4%	37.9%
Senior Lecturer	19	6	24%	
Associate Professor	14	3	17.7%	26.4%
Professor	10	2	17%	16.9%
Total	53	19	26.4%	35.8%

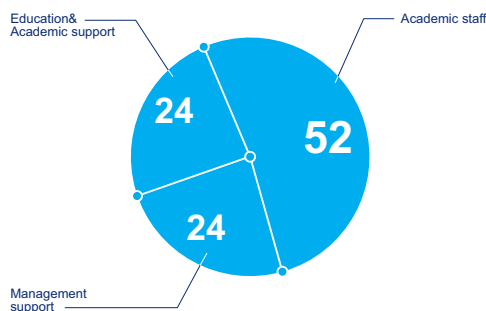
Employee demographics

The total number of staff has decreased 2.31% in 2015, after a steady increase in the previous ten years.

In keeping with the Institute's mandate as well as its international student body, and in line with the Institute's objective to attract foreign talent and diversify staff, UNESCO-IHE employees have increasingly internationally diversified over the past decade, with contracted staff having 31 nationalities. This trend is expected to continue and may even accelerate.

The percentage of women on staff has increased 1.79% in 2015. One of the measures taken by UNESCO-IHE in 2015 to attract and retain more academic female talent, was the signing of the Talent to Top charter.

Breakdown of employee population



Academic staff members comprise 52% of total employees. Staff who directly support Education & Academic processes, such as those working in Student Affairs, at the Educational Bureau and in the laboratory, make up 24%. The remaining 24% of employees support management processes, including finance, HRM, project support, communications and IT.

Staff training

UNESCO-IHE encourages employees to further improve their academic skills and competencies by providing funds for or subsidizing educational expenses and granting time off during normal working hours for study leave. An employee may be granted a maximum of one half-day study leave per week, unless it would prevent satisfactory functioning in their normal job. For further development and in line with the CAO, an employee may take two additional development days per year, which the employee can use to work on their long-term employability in the

framework of career development and to focus on future positions.

The percentage of academic staff members with a PhD decreased from 81% in 2014 to 76% in 2015. The University Teaching Qualification (UTQ) is a requirement for all academic staff in The Netherlands. UNESCO-IHE runs its own UTQ training programme, which is now recognized as the being at same level as those of Dutch universities by the VSNU. To date, 28.7% of academic employees have obtained their UTQ, an increase from 25% in 2013.

Recruitment

Quality assurance procedures for our staff start at the recruitment stage. UNESCO-IHE has standardized recruitment processes for all levels of staff. The recruitment policies are subject to the Dutch NVP recruitment code, which guarantees a non-discriminatory and objective procedure for all candidates.

In 2015, vacancies were filled only when budgeted in the work plan, paid by a project and/or funded by a donor as part of an agreement. Such vacancies were temporary without the intention to extend beyond the duration of the project. Departing staff were ideally replaced via internal upward or horizontal mobility, and otherwise by hiring new staff at the entry career level. The need to replace staff temporarily in case of maternity leave or long-term illness was determined on a case-by-case basis.

Internal consultation

At UNESCO-IHE, internal consultation between management and staff members, PhD fellows and MSc students is institutionally arranged through the Works Council, the PhD Association Board, and the Student Association Board, respectively.

Elections for the Works Council (WoC) were held at the end of 2015. The WoC represents the interests of the staff in matters such as policy, working conditions, general state of affairs, and important institutional decisions. It consults with or advises management on these matters.

The mandate of the PhD Association Board is to represent the PhD community and to facilitate cooperation with the supervisory teams, UNESCO-IHE management, and outside parties. It is also to be a voice on issues important to the academic and overall well-being of PhD fellows.

The Student Association Board represents the Institute's MSc students in all UNESCO-IHE-related matters, and

discusses views and suggestions on course matters and student welfare with UNESCO-IHE management.

Code of Conduct

UNESCO-IHE endorses a culture in which people work together on the basis of mutual respect. Such an environment implies that good manners including collegiality, respect for each other and interest in each other are the norm. Codes of Conduct developed at the Institute are intended to ensure a pleasant and stimulating environment for work and study, fostering respect for people and facilities, and also regulating an appropriate response to undesirable behaviour.

All employees, guest lecturers, staff from third-party organizations, course participants, trainees and visitors to the Institute are required to comply with these policies by observing the guidelines in the Codes of Conduct. To aid transparency, all Codes of Conduct are published on the website.

Besides internal Codes of Conduct, UNESCO-IHE also adheres to the Code of Conduct with respect to international students in Dutch higher education, which specifies standards for the quality of higher education provided to international students.

New policies

In 2015, UNESCO-IHE's labour costs scheme was revised in line with new Dutch legislation. The scheme intends to simultaneously simplify the administrative burden for employers and consolidate different labour-cost reimbursement schemes.

The IHE Delft Foundation, the employer of the staff seconded to UNESCO-IHE, signed the Talent to the Top charter in 2015. The charter aims to realize and preserve gender diversity at top and sub-top management levels. By signing the charter, UNESCO-IHE pledges to increase gender diversity amongst staff and participants and to measure, monitor and report progress.

Job evaluations

The job evaluation process mainly based on the UFO system (part of the CLA for Dutch Universities and higher education institutes) for Support Staff was concluded in 2015. With the academic process already delivered in 2014, the 2-year process of establishing UNESCO-IHE's flexible, future proof, efficient and effective job evaluation system was concluded.

Services

Sustainability

The Institute aims to reduce its carbon footprint by at least 50% with help of a long-term action plan, over a ten-year period. The main area with potential for reduction is building-related energy consumption. Improvements that have a major impact include generating energy on the premises and improving building insulation. A multi-year maintenance plan, based on the action plan, took effect. Two building installations (a central-heating installation and a cooling installation) were partially replaced, the rest will be completed in 2016, with lower energy usage as a result. Another installation was adjusted so it uses less energy.

In 2015, the Institute started using a general waste press to compress accumulated waste. This enables the Institute's waste collector Avalex to collect the generated general waste once a week instead of five days a week, thus leading to lower CO₂ emissions. Institute-wide printing decreased 16.4% in 2015.

Communicating results

Employees engaged in research often actively pursued initiatives to make scientific findings available to a broader, non-expert audience. Such initiatives included interactions with media and publications in non-academic outlets such as news sites for a larger audience, including those dealing with water, blogs, and other internet fora. In collaboration with project partners, UNESCO-IHE researchers also disseminated research findings in local languages. For a complete overview of publications produced in 2015, refer to Annex 5 - Publications.

In 2015, a UNESCO-IHE Honorary Fellowship was awarded to Professor George Ekama. Ekama is known for his work in the field of wastewater treatment and his holistic view of wastewater systems.

As a signatory of the Berlin Declaration on open access and in line with its mission, UNESCO-IHE aims to share its knowledge and supports Open Access as a new norm for scholarship and research. To ensure compliance with copyright legislation, UNESCO-IHE has adopted the Creative Commons (CC) legal framework, allowing for the free dissemination of works.

In 2015, UNESCO-IHE's UPDATE magazine became a digital publication, allowing an increasing subscriber base to enjoy this news outlet. UNESCO-IHE also continued

to make news about the Institute's activities available through regular outlets such as the website, social media, a monthly online newsletter, the annual Highlights booklet and a quarterly mailing to alumni.

UNESCO-IHE contributes to society by co-organizing policy-oriented meetings. Good performance in tangible societal contributions is a prerequisite for the academic staff members to be promoted. For an overview of some of the societal impact of staff members via external memberships, refer to Annex 8 - External memberships.

Student administration

MSc student intake for the 2015-2017 period was once again quite high: 233 students enrolled. The rising number of students in joint programmes (45%) means logistics have remained complicated, entailing multiple arrival and departure dates, registrations and introduction days. This complicates efficient housing planning and student services, while producing a lot of administrative work. For the first time in 2015, selected MSc and short course participants were awarded Small Island Developing States (SIDS) scholarships.

Information technology

Employees and students are provided with laptop computers that give them flexibility in working locations, can connect to the Institute's network, and run required applications. For the students, the laptop is the place where all the information - educational materials, e-books, data, models, tools - that they collect during their studies is stored. The network connects students, employees and our partners to facilitate joint education and research while serving administrative purposes.

UNESCO-IHE is connected to the SURFnet network, which is operated by the Dutch higher education sector, and participates in SURFconext and EDUgain, allowing collaboration with national education and research networks worldwide through state-of-the-art network facilities worldwide. SURF is one of the market leaders in this segment. In 2015, UNESCO-IHE has made more structured use of SURFs' high-performance computing environment of Dutch higher education; SURFsara. SURFsara offers more possibilities for PhD and MSc research regarding high-performance computing. The environment is particularly useful for those studying Hydroinformatics.

The administrative process of third-party contracting was digitized and optimized in 2015.

A new intranet for staff members named 'The Source' was launched in 2015. The Source improves workflows and operational management processes through easy access to relevant documents, protocols and corporate materials. The intranet functions as a portal for internal communications, informing and engaging staff members by (enabling the) sharing of successes, organizational information, and management decisions, among others.

Off-campus access to internal applications and information is offered by means of a virtual private network, and supports 250 simultaneous connections.

The available wireless network can be accessed by Eduroam users. Eduroam is an initiative in which education and research centres worldwide share each other's wireless network for internet connectivity.

Safety

The Emergency Response Team (ERT) held an ERT exercise and a company-wide evacuation drill. In 2015, electrical equipment was inspected and several repairs were done on large installations based on the outcome of an extensive thermal investigation.

Campus

Research facilities

The existence of and access to appropriate multidisciplinary research facilities are considered essential for the institute's success in achieving excellence in water research and education.

On its premises in Delft, the Institute has a water lab for hydrochemistry, process technology, microbiology, aquatic ecology and soil science, including six qualified staff members and various equipment for experimental lab and field work. Through partners, researchers also have access to hydraulic labs at Delft University of Technology and Deltares, and various other hydrochemical laboratories. The vast majority of the field sites are in the tropics, where our local partners have access to a range of other research facilities and infrastructure.

The Institute has a library that provides access to over 35,000 printed titles and over 12,000 peer reviewed electronic journals, e-books and other digital resources. Moreover the library has an institutional repository which provide access to all PhD dissertations. Gradually

the repository shall also provide access to top Master thesis and open access peer reviewed articles written by UNESCO-IHE staff members.<http://repository.tudelft.nl/ihe/>

Further to the implementation of the WorldCat Local from OCLC, the library has implemented the OCLC WorldShare Platform, a global, interconnected Web architecture that supports OCLC's Webscale services and applications, and provides flexible, open access to library data through APIs and other Web services.

Library cooperation agreements are signed with partner libraries of Delft University of Technology, the Institute for Social Studies of Erasmus University of Rotterdam and UNESCO HQ (Paris).

Housing at maximum capacity

The increasing numbers of UNESCO-IHE staff, the number of in-house partners, and the number of PhD fellows has led to a situation where further expansion and growth are no longer possible on the current premises. In 2015, a proposal to maximize efficient use of our capacity was implemented. This led to the creation of an additional 11 workplaces for the Institute's PhD fellows on the ground floor and first floor of the Oude Delft 91 building.

UNESCO-IHE premises

In 2015, the exterior windows and ornaments of the Westvest 5A building were painted. Repairs to exterior brickwork and joint (wall) repairs started in 2015, and will continue in 2016.

Student housing

Availability of student housing is no longer a commodity and careful planning is required. The 40% cut in student housing costs realized in 2013, were maintained in 2015.

Restaurant

In January, a customer satisfaction survey was held regarding the caterer, Sodexo. All occupants of the premises were invited to participate. The overall score was good. The UNESCO-IHE catering team was awarded the 2015 'Star Award for best small location', by Sodexo Netherlands.

Financial report

Context

UNESCO-IHE financial operations in 2015 showed revenues comparable with the previous year and a limited increase in expenditures, as compared to 2014. The total turnover remains at almost €40 million. The overall result shows a surplus of €1,148,000. This corresponds to an operational result of 3% against turnover. The main challenges are/were securing fellowships for our education operations and replenishing the general reserves to guarantee continuity of operations.

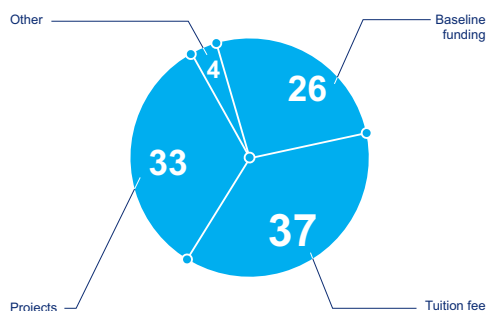
Income

The Institute's income originates from three main sources:

1. Baseline funding from the Dutch Ministry of Education, Culture and Science;
2. Tuition fees from MSc students, short course participants and PhD fellows; and
3. Project revenues.

Other income sources are minor and include revenues from renting out conference and laboratory facilities and student housing to third parties. It also includes the PhD graduation grants received from Dutch universities for joint graduations.

Sources of income (percentage)



Baseline funding from the Dutch Ministry of Education, Culture and Science increased in 2015 with a price index of around 2%, compared with 2014. This increase was based on a policy document published by the Dutch Ministry of Foreign Affairs from 2013 entitled “What the world deserves”. Dutch Parliament decided to proportionally cut the contribution for international education. The Dutch Ministry indicated in 2013 that they would base their decision on the level of funding for 2017 and beyond on an evaluation of the Institute's performance in education, research and valorization of knowledge pursuant to the Dutch aid and trade policy in 2016. In 2014, the Dutch Ministry of Education, Culture and Science notified the Institute that it will maintain the (increased) proportional budget cut for 2017 and will not base this cut on an evaluation. The Ministry has announced a further cut of just about 1.2 million euro, based on the 2013 price index.

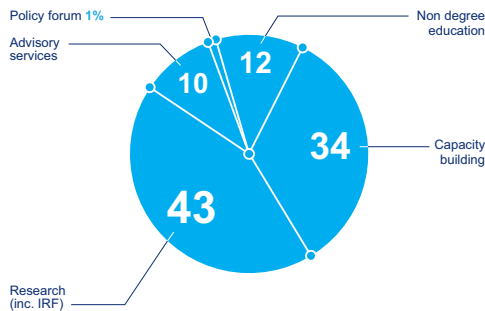
Income from tuition fees decreased markedly (7%), due to a drop of 11% in the programme expenditures (stipends) from fellowships. The net tuition fee to cover the education non-programme expenditures raised limited from 2014 €4.880 K to 2015 €5.063 K and is about 35% of the total tuition fee income. The average number of MSc students per year decreased by 4%, while the intake of active PhD fellows increased by 12%. UNESCO-IHE secured donor funding for 217 fellowships for the 2014-2016 MSc cohort and 235 fellowships for the 2015-2017

Financial report

cohort, compared with the historical average of about 200 fellows per cohort and 228 in the 2013-2015 MSc cohort.

Project income from research, non-degree courses, advisory, policy forum and capacity development projects was comparable with 2014. The direct project costs related to this income increased by 3%. The result is a net decrease in project fee income of 5%. In the graphic the net project fee composition per project group in 2015 is shown, totalling €4.9193 K.

Project fees



The net project fee decrease is due to a 2% increase in academic staff, a lowered productivity/billability of 4% (52 hours less per academic staff member) and a limited decrease of the average project rate by 5%. This drop is due to the reservation work in progress, made for projects with an expected (future) loss or as charge to the baseline funding. UNESCO-IHE also writes time on several projects at a zero rate, reaching the maximum income limits or representing IHE's in kind contribution in support of these projects.

In addition to the baseline funding from the Dutch Ministry of Education, Culture and Science, our other main sources of income (in % of our total project and tuition fee income) are:

Donor (main types of income)	%
NUFFIC Foundation (fellowships, short course, capacity development)	26
Dutch Ministry of Foreign Affairs (all project types and fellows)	18
European Commission (research and fellows)	11
Participants with private (fellowship) arrangements or funds (fellows, tuition fee)	5
Bill and Melinda Gates Foundation (fellows and short courses)	3
Asian Development Bank (capacity development and advisory)	2
Natural Environment Research Council (research)	2
The Rotary Foundation (fellows)	2
The Netherlands Organisation for Scientific Research (research, fellows)	1
CDM International Inc. (research and fellows)	1
Deltares Foundation (fellows, all project types)	1
International Water Management Institute (IWMI) (research, advisory, fellows)	1
Fundação Renato Azeredo (capacity development, advisory, fellows)	1
ANII Agencia Nacional de Investigacion e Innovacion (fellows)	1
Vitens-Evides International B.V. (fellows, all project types)	1

The table represents about 76% of the total project and tuition fee income. In total these 15 donors contribute just over €21 million, the equivalent of 53% of total revenues.

The source of income "Others" is exceptionally high compared to 2014, due to two one-off incidents. In 2015 UNESCO-IHE settled the, in 2014, raised issues with the Dutch Tax authorities at a more favourable tax assessment than anticipated in the 2014 accounts. Furthermore, two major long outstanding debts (more than 3 years), for which UNESCO-IHE had created a provision, were paid.

Expenditures

UNESCO-IHE makes a distinction between programme expenditures and non-programme expenditures. Programme expenditures relate to the direct outputs of the Institute's main activities, while non-programme expenditures concern general costs such as staff, building, facilities and other indirect or overhead costs. Programme

Performance indicators finance

Finance indicators	2012	2013	2014	2015
B1 Annual project turnover (M euro)	10.23	11.17	13.09	13.08
B2 Annual amount of matching funds (M euro)	2.77	2.47	2.79	2.78
Effectiveness matching (%)	41	35	21	21
B3* Funding from GoN of total income (%)	59	58	60	52
B4*** Funding from EC of total income (%)	14	6	17	13
B5* Funding from foundations/NGOs (%)	9	6	9	6
B6* Funding from the private sector (%)	6	4	3	5

* Due to the economic crisis, less funding was available from private organizations and foundations, but was fortunately compensated by other funding including those from international organizations, other governments and public organizations.

** The EC PF7 and Erasmus programmes came to an end, and the first calls of the new programmes opened end 2013 and beginning 2014.

B1	Annual project turnover (M euro): The annual project turnover consists of funds from externally funded projects.
B2	Annual amount of matching funds and effectiveness matching (%): The annual amount of matching funds versus externally funded projects is monitored through the use of a proportion of the baseline funding for matching/ co/funding.
B3	Funding from GoN of total income (%): To monitor the diversity of funding the percentage of funding of the Government of The Netherlands as part of the total income is given.

B4	Funding from EC of total income (%): To monitor the diversity of funding the percentage of funding of the EC as part of the total income is given.
B5	Funding from foundations/NGOs (%): To monitor the diversity of funding the percentage of funding of foundations / NGOs as part of the total income is given.
B6	Funding from the private sector (%): To monitor the diversity of funding the percentage of funding of private companies as part of the total income is given.

expenditures are therefore directly linked to the revenue items (education, training, projects) mentioned in the income section.

Non-programme expenditures showed a marginal raise (1%) in 2015 compared with 2014.

Non-programmable expenditures	2015	2014
Staff and management	13,245	14,909
Buildings	1,835	1,750
Facilities	1,349	1,300
Education related costs	1,246	1,191
Acquisition and marketing	308	385
General costs	799	420
Interest	-76	-157
	18,707	19,798

The 'staff and management' costs, including employee costs, decreased by 5% due to an 1% increase in staff, an 1.25% increase in the Collective Labour Agreement (CAO) for Dutch Institutions for Higher Education in September, an 1% Collectively Agreed on-off bonus of Euro 500 and the annual staff increments. In 2014 we also included an expected tax assessment for some tax issues from the past. In the other staff and management costs IHE modestly increased the temporary staff due to staff changes and (middle) long term illness replacements. These increases were partly compensated by lower costs for staff festivities and staff training. IHE also made

savings in the recruitment costs because of the increasing use of the IHE network instead of the more general channels for vacancy fulfilments. The total average number of staff throughout the year, including seconded staff from outside, increased by 1.5 FTE, of which 1.6 academic staff (billable) and 0.1 FTE less support.

The overall costs for operation and maintenance of the building increased by 15%. This is due to an increased rate for the lease and the change that causes the donation into the fund for (future) major repairs to be estimated. The final payoff of the lease was postponed in 2015, due to the damages and liability issues related to the construction works of the new railway station, part of the Spoorzone project in front of the building.

Operating costs of the facilities increased by only 3%. However, savings were also made due to a delay in investments of major IT systems, a more favourable copier contract and a decrease in the amount of paper used. In 2014, however, UNESCO-IHE also received a one-time contribution from the DUPC programme in support of IT developments which was directly allocated to the (external) expenditure involved. Similar to last year, the laboratory activities increased due to the significant increase in number of (Delft-based) students and special programme participants with the need to use the laboratory facilities.

Costs related to education increased by 5%, as a result of higher costs for unoccupied student housing. The social expenditures for students (events, sports, introductions

and other activities) remained the same as the previous year, continuing the savings realised in 2014. Furthermore, UNESCO-IHE did not have the costs related to the external accreditation it had in 2014, and managed to decrease internal co-funds required for non- or partially externally funded participants.

Acquisition and marketing costs significantly decreased (20%) compared to the previous year. This decrease was due to some of the Institute's overdue activities in 2014 (corporate video, intranet) and a cash contribution to the feasibility study of an international water leadership course. Unfortunately the latter did not turn out to be financially attractive. UNESCO-IHE invested in presenting at the World Water Forum in Korea, a new Highlights booklet for external readers, as well as The Source, a new intranet to improve internal communications.

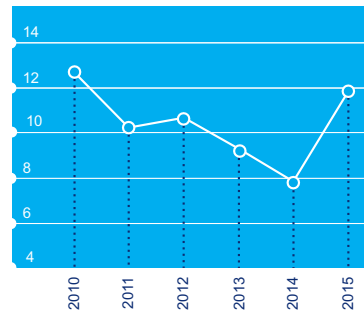
General costs redoubled and were at a one-off extreme high level. This was due activities related to tax compliance, governance, and staff changes in Rectorate and Foundation Board, for which the Institute needed to engage with consultants and lawyers. The change of laws regarding insourcing third parties in The Netherlands required a major adaptation of internal procedures when hiring self-employed guest lectures or project consultants. For UNESCO-IHE the cashier function of PhD fellowships is essential in order to be able to remain attractive to (potential) fellowship donors, but in The Netherlands the cashier function is under national debate due to possible hidden employment. Both the cashier function and the insourcing of third parties are at the core of our existence and justify the large amount the Institute has invested in the services of external consultants and lawyers.

Although the overall payment practices of UNESCO-IHE debtors improved, the Institute still needed to increase (€79 K) its reservation due to two long outstanding debts (more than 1 year). Both these organisations are awaiting a payment from the framework of a European Commission-funded project in order to settle their debt.

Interest revenues were sharply (52%) lower than last year. Although UNESCO-IHE has a favourable cash flow the current (international) interest rates earned on short- and long term (1 year) saving accounts are at a minimum.

Balance sheet

Equity/total liabilities



The balance sheet shows a ratio of 12/88 between equity and borrowed capital, which corresponds to a solvency ratio of 12%. This ratio improved significantly compared to last year. Solvency, however, needs to grow towards the targeted percentage of 20%. UNESCO-IHE expects to manage a further improvement in future years with further savings and efficiency improvements. This improvement is skimmed by proposed investments in educational innovations, building and the (renewed) Laboratory Plan. In view of the additional cuts of the base subsidy in 2017 and the Institute's subsequent increased dependency on other donors, UNESCO-IHE needs to reach the targeted level of financial sustainability. With the current level of surplus, the expected period to reach sufficient solvency is estimated at 5 years.

UNESCO-IHE anticipates an agreement with the current building owner in 2016 to settle the final lease payment of €4.2 million. With the transfer of ownership, IHE will include the building in the assets. The expected surplus value will also improve solvency. However, with the transfer of ownership, IHE will be solely involved in the settlement of the liability issues with the construction of the Spoorzone in front of the building, concerning the damages it caused to its façade. The expected risk involved is valued at approximately €1 million, excluding costs of lawyers and building consultants.

The borrowed capital includes provisions and current liabilities. Reservations for leave hours and holiday bonuses have been made in the current liabilities. The provisions consist of a reservation for work anniversary payments to staff and for long-term maintenance. The current ratio is at a level of 1.0, compared to 0.95 in 2014. This means that the Institute remains creditworthy in the short term, as the ideal ratio-level is 1. For the foundation's long-term financial sustainability, the focus will be on increasing the financial reserves as foreseen in the business plan currently being implemented.

Statement of income and expenditures in euro * 1,000

	2015	2014
Income		
Subsidy Ministry of Education	10,419	10,256
Tuition fees	14,702	15,862
Projects	13,082	13,090
Other	1,491	517
Total income	39,694	39,726
Programme expenditures		
Tuition expenses (stipends, guest lecture, etc.)	10,417	11,693
Projects	8,162	7,928
Total programme expenditures	18,580	19,622
Non-programme expenditures		
Staff and management	14,147	14,909
Buildings	2,004	1,750
Facilities	1,333	1,300
Education-related costs	1,246	1,191
Acquisition and marketing	308	385
General costs	1,004	420
Interest	-76	-157
Total non-programme expenditures	19,966	19,798
Operating result	1,148	305
Extraordinary charges / appropriations from Fellowship Trust Fund	0	0
Overall result	1,148	305

Balance sheet in euro * 1,000

	31 Dec 2015	31 Dec 2014
Assets		
Fixed assets	4,635	4,796
Accounts receivable	7,328	10,079
Cash and banks	19,957	19,038
Total	31,920	33,913
Equity and liabilities		
Equity	3,477	2,329
Fellowship Trust Fund	260	261
Provision	776	675
Current liabilities	27,416	30,648
Total	31,929	33,913

Fellowship Trust Fund

The UNESCO-IHE Fellowship Trust Fund was created to raise funds from private and public organisations, companies, alumni and other individual benefactors for partial or full sponsorship of an individual's study at UNESCO-IHE. This support enables water professionals who possess the intellectual stamina and ability to receive postgraduate education at UNESCO-IHE, but lack the proper funding. Every contribution is directed towards its equivalent value in terms of output.

In 2015, the Fellowship Trust Fund did not provide financial support to any students. We thank the donor Mrs. Rebecca Trott for her contribution, which will contribute to students advancing or completing their academic programmes at the Institute.

Financial statement FTF	euro
Fund on 1 January 2015	260,945
Gifts	
Mrs. Rebecca Trott	50
Interest	1,259
Total	1,309
MSc fellowships	
None	-
Total	-
Fund on 31 December 2015	262,255

Annexes

Annex 1

Educational statistics

Registered degree programme participants for the academic year 2015-2016

Programme	Source of funding			Region of origin					Gender		Total
	Full NFP	Co-financed NFP	Other	Africa	Asia	Latin America	Middle East	Other	Female	Male	
MSc Programmes 2014-2016	74	0	141	86	71	27	8	23	87	128	215
Environmental Science	26	0	29	27	8	10	2	8	27	28	55
Urban Water and Sanitation	11	0	28	15	8	11	2	3	15	24	39
Water Management	14	0	23	20	11	3	0	3	15	22	37
Water Science and Engineering	23	0	61	24	44	3	4	9	30	54	84
MSc Programmes 2015-2017	66	2	168	81	82	34	8	29	90	144	234
Environmental Science	18	0	38	22	16	5	3	10	26	30	56
Urban Water and Sanitation	11	2	27	19	8	11	0	0	15	23	38
Water Management	13	0	20	11	14	2	2	4	12	21	33
Water Science and Engineering	24	0	83	29	44	16	3	15	37	70	107
PhD programmes 2015	28	3	99	37	37	31	10	15	49	81	130
Total	168	5	408	204	190	92	26	67	226	353	579
Percentage	29	0.9	70.5	35.2	32.8	16.1	4.5	11.6	39	61	

Annex 2

Short courses

Short course	Date		Participants	Female participants
Advanced Water Transport and Distribution	29/Jun/15	17/Jul/15	5	1
Advanced Water Treatment and Re-use	20/Apr/15	08/May/15	4	1
Anaerobic Wastewater Treatment	02/Mar/15	06/Mar/15	1	0
Applied Groundwater Modelling	08/Jun/15	26/Jun/15	4	1
Aquatic Ecosystems: Processes and Applications	08/Jun/15	26/Jun/15	3	1
Becoming a Water Leader	27/Jul/15	31/Jul/15	1	0
Coastal Systems	12/Jan/15	30/Jan/15	1	0
Data Acquisition, Preprocessing and Modelling using HEC-RAS	14/Sep/15	25/Sep/15	4	0
Data Acquisition, Preprocessing and Modelling using SWAT	14/Sep/15	25/Sep/15	4	0
Data Acquisition, Preprocessing and Modelling using the PCRaster Python Framework	14/Sep/15	25/Sep/15	4	1
Data Analysis and Modelling for Aquatic Ecosystems	18/May/15	05/Jun/15	4	3
Data Driven Modelling and Real Time Control of Water Systems	02/Mar/15	20/Mar/15	1	1
Decentralised Water Supply and Sanitation	29/Jun/15	17/Jul/15	1	0
Design of Hydropower Schemes	22/Jun/15	26/Jun/15	2	0
Environmental Assessment for Water-related Policies and Developments	08/Jun/15	26/Jun/15	3	2
Environmental Engineering	30/Mar/15	17/Apr/15	3	1
Environmental Monitoring and Modelling	20/Apr/15	08/May/15	4	1
Environmental Planning and Implementation	20/Apr/15	08/May/15	6	4
Financial Management of Water Organisations	20/Apr/15	08/May/15	3	1
Flood Risk Management	08/Jun/15	26/Jun/15	8	1
GIS and Remote Sensing Applications for the Water Sector	26/Oct/15	06/Nov/15	26	8
Green Cities: A Pathway to Sustainable Urban Water Systems	27/Jul/15	31/Jul/15	2	2
Groundwater Data Collection and Interpretation	30/Mar/15	18/Apr/15	5	2
Groundwater Resources and Treatment	02/Mar/15	20/Mar/15	1	1
Hazardous Waste Management	31/Aug/15	11/Sep/15	25	13
Hydrological Data Collection and Processing	30/Mar/15	17/Apr/15	2	1
Industrial Effluent Treatment and Residuals Management	08/Jun/15	26/Jun/15	5	2
Integrated Coastal Zone Management	20/Apr/15	01/May/15	3	1
Integrated Hydrological and River Modelling	20/Apr/15	08/May/15	1	0
International Port Seminar	20/Apr/15	08/May/15	7	2
Introduction to River Flood Modelling	20/Apr/15	08/May/15	2	0
IWRM as a Tool for Adaptation to Climate Change	29/Jun/15	17/Jul/15	9	3
Management of Irrigation Systems	30/Mar/15	17/Apr/15	2	0
Managing Water Organizations	02/Mar/15	20/Mar/15	5	2
Modelling Wastewater Treatment Processes and Plants	20/Apr/15	08/May/15	1	0
Nanotechnology for Water and Wastewater Treatment	30/Mar/15	10/Apr/15	5	1
Open Source Software for Preprocessing GIS Data for Hydrological Models	14/Sep/15	18/Sep/15	4	3
Partnerships for Water Supply and Sanitation	08/Jun/15	26/Jun/15	1	0
Port Planning and Infrastructure Design	09/Feb/15	27/Feb/15	4	1
River Basin Modelling	30/Mar/15	17/Apr/15	2	1
River Basin Modelling using HEC-RAS	21/Sep/15	25/Sep/15	2	0
River Basin Modelling using SWAT	21/Sep/15	25/Sep/15	3	1

Short course	Date		Participants	Female participants
Small Hydropower Development	07/Sep/15	18/Sep/15	21	7
Solid Waste Management	29/Jun/15	17/Jul/15	8	6
Tracer Hydrology and Flow Systems Analysis	02/Mar/15	20/Mar/15	1	0
Urban Drainage and Sewerage	12/Jan/15	30/Jan/15	5	3
Urban Flood Management and Disaster Risk Mitigation	20/Apr/15	08/May/15	5	4
Urban Water Governance	29/Jun/15	17/Jul/15	2	0
Urban Water Systems	08/Jun/15	26/Jun/15	4	1
WASH in Emergency	27/Jul/15	31/Jul/15	8	2
Wastewater Treatment Plants Design and Engineering	30/Mar/15	17/Apr/15	3	1
Water and Environmental Policy Making	30/Mar/15	17/Apr/15	1	1
Water Conflict Management I	02/Mar/15	20/Mar/15	3	1
Water Conflict Management II	30/Mar/15	17/Apr/15	2	1
Water Economics	12/Jan/15	30/Jan/15	5	2
Water Quality Assessment	02/Mar/15	20/Mar/15	6	1
Water Resilient Cities	29/Jun/15	17/Jul/15	4	4
Water Resources Assessment	02/Mar/15	20/Mar/15	2	1
Water Resources Planning	20/Apr/15	08/May/15	6	3
Water Transport and Distribution	30/Mar/15	17/Apr/15	4	1
Water Treatment Processes and Plants	08/Jun/15	26/Jun/15	8	3
Watershed and River Basin Management	29/Jun/15	17/Jul/15	8	3
Wetlands for Livelihoods and Conservation	29/Jun/15	17/Jul/15	2	2
Where there is Little Data: How to Estimate Design Variables in Poorly Gauged Basins	02/Nov/15	13/Nov/15	10	2
Young Entrepreneurs - the Vehicle to Economic and Sustainable Development	27/Jul/15	31/Jul/15	1	1
Total			302	113
Percentage			100	37.41

Online course participants

Online course	Date		Participants	Female participants
Biological Wastewater Treatment: Principles, Modelling and Design	05/Jan/15	05/Jun/15	26	6
Constructed Wetlands for Wastewater Treatment	01/Sep/15	08/Jan/16	16	3
Decision Support Systems in River Basin Management	14/Sep/15	07/Dec/15	10	1
Ecological Sanitation	04/May/15	04/Sep/15	18	4
Environmental Flows	01/Sep/15	08/Jan/16	6	3
Flood Modelling for Management	01/Mar/15	12/May/15	7	2
Grey Water Management, Treatment and Use	04/May/15	04/Sep/15	10	0
Industrial Effluent Treatment	01/Sep/15	08/Jan/16	22	1
Industrial Resource Management and Cleaner Production	04/May/15	04/Sep/15	9	0
Modelling Sanitation Systems	04/May/15	04/Sep/15	11	0
Solid Waste Management	01/Sep/15	08/Jan/16	28	11
Urban Drainage and Sewerage	05/Jan/15	08/May/15	14	0
Water and Environmental Law and Policy	27/Jul/15	23/Nov/15	11	6
Water Transport and Distribution	18/Sep/15	18/Feb/16	11	2
Total			199	39
Percentage			100	29.32

Regional refresher course participants

Regional refresher course	Country	Date		Participants	Female participants
Integrated River Basin Management Under Climate Change	Colombia	31/Aug/15	05/Sep/15	27	13
Managing flood for spate irrigation development related to food crops security reflex to the impact of Climate Changes	Indonesia	26/Oct/15	30/ Aug/2015	18	10
Research & action: the politics and practices of participation in the water sector	South Africa	02/Nov/15	06/Nov/15	26	16
Understanding, monitoring and controlling water/sediment dynamics for river basin management	Kenya	16/Nov/15	20/Nov/15	21	8
Modelling practice and tools: their roles in water resources management in the 21st Century	Uganda	09/Nov/15	14/Nov/15	19	11
Water harvesting: a missed potential for food security in the semi-arid regions of Sub-Saharan Africa	Sudan	23/Nov/15	27/Nov/15	21	13
Total				132	71
Percentage				100	53.7

Annex 3

PhD fellows

Promotions

Name	Country	Title thesis	Promoter	Date
Ms. Calderon Palma	Nicaragua	Surface and Subsurface Runoff Generation Processes in a Poorly Gauged Tropical Coastal Catchment. A study from Nicaragua	Uhlenbrook	16/Jan/15
Ms. Sanz Galindo	Colombia	Micro and Small Industries, Water and Developing countries: A challenge for sustainability in Colombia	Gupta	21/Jan/15
Ms. Yihun	Ethiopia	Agricultural Water Productivity Optimization for Irrigated Teff (Eragrostic Tef) in a Water Scarce Semi-arid Region of Ethiopia	Schultz	22/Jan/15
Mr. Dejen	Ethiopia	Hydraulic and Operational Performance of Irrigation Schemes in View of Water Saving and Sustainability. Sugar estates and Community Managed schemes in Ethiopia	Schultz	22/Jan/15
Mr. Gebrekristos	Ethiopia	Understanding catchment processes and hydrological modelling in the Abay/Upper Blue Nile basin, Ethiopia	Uhlenbrook / Savenije	03/Feb/15
Mr. Masese	Kenya	Dynamics in Organic Matter Processing, Ecosystem Metabolism and Tropic Sources for Consumers in the Mara River, Kenya	Irvine / McClain	11/Mar/15
Mr. Keita	Mali	Subsurface Drainage of Valley Bottom Irrigated Rice Schemes in Tropical Savannah. Case study and Moussodougou in Burkina Faso	Schultz	26/Mar/15
Mr. Simanjuntak	Indonesia	Prestressed Concrete-Lined Pressure Tunnels. Towards Improved Safety and Economical Design	Mynett / Marence	22/Apr/15
Mr. Adeboye	Nigeria	Sustainable Use of Land and Water under Rainfed and Deficit Irrigation Conditions in Ogun-Osun River Basin, Nigeria	Schultz	28/May/15
Mr. Wan Yuanyan	China	Multiscale Physical Processes of Fine Sediment in an Estuary	Roelvink	08/Jun/15
Mr. Mohd Shahrizal bin Ab Razak	Malaysia	Natural Headland Sand Bypassing. Towards identifying and modelling the mechanisms and processes	Roelvink	09/Jun/15
Mr. Mvulirwenande	Rwanda	Capacity Development for Learning and Knowledge Permeation. The Case of Water Utilities in Sub-Saharan Africa	Alaerts / Wehn	10/Jun/15
Ms. Trambauer Archavaleta	Uruguay	Hydrological Drought Forecasting in Africa at Different Spatial and Temporal Scales	Uhlenbrook / Maskey	23/Jun/15
Mr. Janyasuthiwong	Thailand	Biogenic Sulfide Production at low PH and selected metal precipitation for e-waste leachate treatment	Lens	03/Jul/15
Mr. Demessie	Ethiopia	Soil hydrological impacts and climatic controls of land use and land cover changes in the Upper Blue Nile (Abay) basin	Uhlenbrook	07/Jul/15
Mr. Yan	China	Low-cost Space-borne Data for Inundation Modelling: Topography, Flood Extent and Water Level	Solomatine / Di Baldassarre	09/Jul/15
Ms. Osman	Sudan	Impact of Improved Operation and Maintenance on Cohesive Sediment Transport in Gezira Scheme, Sudan	Schultz	03/Sep/15
Ms. Elsheikh	Sudan	Water Productivity of Sunflower under Different Irrigation Regimes at Gezira Clay Soil, Sudan	Schultz	08/Oct/15
Ms. Zapater Pereyra	Peru	Design and Development of two a novel constructed wetlands: The Duplex-constructed wetland and the Constructed wetroof	Lens	30/Oct/15
Mr. Chung	Republic of Korea	Pathogen removal using saturated sand columns supplemented with hydrochar	Lens	30/Oct/15
Mr. Sembiring	Indonesia	Rip Current Prediction System for Swimmer Safety- Towards Operational Forecasting Using a Process Based Model and Nearshore Bathymetry from Video	Roelvink	30/Oct/15
Ms. Duong	Vietnam	Climate Change Impacts on the Stability of Small Tidal Inlets	Roelvink / Ranasinghe	01/Dec/15
Ms. Kemerink	The Netherlands	Policies lost in translation? Unravelling water reform processes in African waterscapes	van der Zaag / Ahlers	10/Dec/15
Ms. Espinosa Ortiz	Mexico	Bioreduction of selenite and tellurite by Phanerochaete chrysosporium	Lens	10/Dec/15
Ms. Kuzniecowa Bacchin	Italy	Performative Nature-Urban landscape infrastructure design in water sensitive cities	Zevenbergen	14/Dec/15
Mr. Welles	The Netherlands	Enhanced Biological Phosphorus Removal- Metabolic Insights and Salinity Effects	Brdjanovic/ van Loosdrecht	22/Dec/15

Registered PhD fellows

Name	Country	Title thesis	Promoter
Ms. Zakaria	Indonesia	Rethinking Fecal Sludge Management in Emergency Setting	Brdjanovic
Mr. Barreto Carvajal	Colombia	Aeration and permeability in high MLSS Membrane Bioreactors for volume reduction	Brdjanovic
Ms. Szabo Corbacho	Uruguay	Developing water and wastewater technologies to be applied in the food processing industries in Uruguay	Brdjanovic
Mr. Rubio Rincon	Mexico	Feasibility of using seawater in urban sanitation (implementation)	Brdjanovic
Mr. Skoulios	Greece	Model-based assessment of urban wastewater infrastructure development on aquatic environment	Brdjanovic
Mr. Kim	Republic of Korea	Municipal Wastewater Treatment using Algae and Bacteria at MBR process(based on MLE process)	Brdjanovic
Mr. Mawioo	Kenya	Novel Concepts and Technologies for Excreta and Wastewater Management in Emergency Conditions	Brdjanovic
Mr. Martinez Cano	Colombia	Adaptation strategies to the pressure of global change in urban drainage modelling	Brdjanovic / Vojinovic
Mr. Abebe	Ethiopia	Agent-based modelling of socio-technical systems for urban flood risk assessment	Brdjanovic / Vojinovic
Mr. Medina Pena	Colombia	Development of a Decision Support System for Flood Risk Assessment in Coastal Regions	Brdjanovic / Vojinovic
Ms. Alves Beloqui	Uruguay	Multifunctional design of measures for flooding	Brdjanovic / Vojinovic
Ms. Theol	Iraq	Effects of Cohesive Sedimentation in the Irrigation Systems - Case Study: AL-Kadhimiya irrigation system, Tigris River, Iraq	de Fraiture
Ms. Prabnakorn	Thailand	Integrated Water Management at the Tapi River Basin, Thailand	de Fraiture
Ms. Mersha	Ethiopia	Integrated Water Resource Management (IWRM) for Sustainable Irrigation Development: Awash River Basin, Ethiopia.	de Fraiture
Mr. Mananchie	Ethiopia	Irrigation water potential assessment, soil and water management reforms and indigenous irrigation systems in Awash river basin, Ethiopia	de Fraiture
Ms. Fadul Bashir	Sudan	Optimizing benefit streams in spate irrigated agriculture in Sudan	de Fraiture
Mr. Aklan	Yemen	Rainwater Harvesting & Flash Food Mitigation	de Fraiture
Ms. Zenebe	Ethiopia	Towards a Basin Approach for Sustainable Development of Climate Resilient Flood-based Farming Systems: Raya Valley, Tigray Region, Ethiopia	de Fraiture
Mr. Kaune Schmidt	Germany	Value of comprehensive datasets and information in constraining uncertainties in support of decision making	de Fraiture
Mr. Galvis Castano	Colombia	Development of a technology selection model for pollution prevention and control in the municipal water cycle	Gijzen
Mr. Silva Vinasco	Colombia	Greenhouse gas emissions from ecotechnologies for sustainable domestic wastewater management in tropical regions	Gijzen
Ms. Setyamukti	Indonesia	Processing organic kitchen waste in a low-tech box composting system	Gijzen / Rotter (TU Berlin)
Mr. Hayat	Pakistan	Afghanistan, Pakistan and River Kabul: Pathway for Collaboration or New Basis for Conflict	Gupta
Ms. Obani	Nigeria	Environmental Human Rights and Development, case of sanitation	Gupta
Ms. Etiegni	Kenya	A Case of Lake Victoria Fisheries (Kenya)	Irvine
Ms. Salcedo Borda	Peru	Effect of flow change, due the presence of Dam, on nutrients cycling	Irvine
Mr. Hategekimana	Rwanda	Governance of Wetlands in Africa with focus on Rwanda	Irvine
Mr. Uwimana	Rwanda	Rehabilitation of Sediment and Nutrient Retention Functions in Wetland s of Migina Catchment, Rwanda	Irvine
Mr. Nabuyanda	Zambia	The Fate of Cobalt, Copper and Lead in Two Wetlands in Zambia	Irvine
Mr. Belachew	Ethiopia	Using catchment models and in situ measurements to estimate combined effects of diffuse and industrial effluent loads into the Borkena River, Ethiopia	Irvine
Ms. Namaalwa	Uganda	Water quality and hydrology regulation under the influence of agriculture in Namatala wetland, Uganda	Irvine
Ms. Rongoei	Kenya	Wetland Ecosystem Integrity in Relation to Exploitation for Livelihoods in Nyando Wetlands, Kenya	Irvine
Mr. Onyango	Kenya	Toxicological Fate, Monitoring and Potential Climate Change Effects of Pesticide Residue in the Lake Naivasha Catchment, Kenya	Irvine
Mr. Sousi	Palestine	Biostability of drinking water	Kennedy
Mr. Salifu	Ghana	Fluoride removal from drinking water	Kennedy

Name	Country	Title thesis	Promoter
Mr. Bruins	The Netherlands	Manganese removal from groundwater by microbial and physico-chemical autocatalytic processes	Kennedy
Mr. Dhakal	Nepal	New Generation of Pre-treatments to Eliminate Organic and Biological Fouling in SWRO Systems	Kennedy
Mr. Schurer	The Netherlands	Application of Membrane Technology to enhance Biological Stability in Surface Water Treatment	Kennedy
Mr. Montenegro Padilla	Nicaragua	Urban Water Demand Management for Sustainable Water Supply: Case Study of Selected Cities in Nicaragua	Kennedy
Ms. Reyes Perez	Ecuador	Water Demand Management and Small Scale Water Supply Systems in Tropical Islands	Kennedy
Ms. Ekowati	Indonesia	Demonstrating and promoting innovative technologies, for an optimal and safe closed water cycle in Euro-Mediterranean tourist facilities	Kennedy / Huisman (UU)
Mr. Abushaban	Palestinian territories	Safe induction time control of scaling formation in reverse osmosis membrane	Kennedy / Schippers
Mr. Mahmoud	Egypt	the feasibility of application bank filtration technique in arid climate, Egypt	Kennedy / Sharma
Mr. Al-Washali	Yemen	Water Loss Assessment for Developing Countries; the Case of Yemeni Water Supply Systems	Kennedy / Sharma
Ms. Bhattarai Guatam	Nepal	Anaerobic methane oxidation with nitrate as electron acceptor	Lens
Ms. Cassarini	Italy	Anaerobic oxidation of methane in the presence of different electron acceptors	Lens
Mr. Mal	India	Biological removal of tellurium and selenium from electroplating wastewater	Lens
Ms. Rada Ariza	Colombia	Microalgae for wastewater biotreatment and biomass recovery	Lens
Ms. Wadgaonkar	India	Novel bioremediation process for the treatment of seleniferous soils	Lens
Mr. Banik	Bangladesh	Sewer systems management and protection	Lens
Mr. Andreev	Republic of Moldova	Terra preta nova production for resource oriented management of human excreta	Lens
Mr Mustapha	Nigeria	Treatment of petroleum-contaminated wastewater using constructed wetlands	Lens
Mr. Reyes Alvarado	Mexico	Optimization of electron donor dosing for sulphate reducing bacteria in sulphate rich wastewater treatment	Lens
Mr. Botwe	Ghana	Historical Trends in Chemical Pollution and Sedimentation in the Tema Harbour, Ghana	Lens / Irvine
Mr. Isildar	Turkey	Metal recovery from electronic waste	Lens / van Hullebusch (Paris-Est)
Ms. Tan	Philippines	Micro-aerobic bioreactor to selenium and tellurium contaminated wastewater	Lens / van Hullebusch, Robin Gerlach
Mr. Da Motta Paca	Brazil	Large scale hydrological assessment, variability and prediction under data scarcity - case application: the Amazon river basin	McClain
Ms. Minaya Maldonado	Ecuador	Development of methodologies, environmental indexes, indicators and programs for integral environmental evaluation and restoration of degraded systems	Mynett
Ms. Musa	Nigeria	Living with sea level rise on a subsiding delta: using satellite based data and information as tools to develop mitigation and adaptation options for the Niger delta	Mynett
Mr. Ferdous	Bangladesh	Socio-Hydrological Dynamics in Bangladesh	Mynett
Ms. Ouikotan	Benin	Flood modelling in Cotonou (as coastal) city: hydraulic and hydrology aspects	Mynett / Afouda (UAC)
Ms. Lines Diaz	Spain	Value of information in support of operational drought management	Mynett / Bastiaanssen
Ms. Mwelwa	Zambia	Flow, morphology and vegetation in the Middle Zambezi: a Study of spatial and temporal scales	Mynett / Crosato
Mr. Mulatu	Ethiopia	Effects of dam constructions on the Planimetric changes of the downstream rivers	Mynett / Crosato
Ms. Alvarez Miele	Ecuador	Ecological Modelling in Tropical Rivers and Wetlands	Mynett / Irvine
Mr. Wang	China	Numerical Modelling of Ice Floods in the Ning-Meng reach of the Yellow River basin	Mynett / Popescu
Mr. Meesuk	Thailand	Merging Topographical Data From Multidimensional Views For Enhanced Urban Flood Modelling	Mynett / Vojinovic
Ms. Rogelis Prada	Colombia	Operational Flood Forecasting, Warning and Response for Multi-Scale Flood Risks in Developing Cities	Mynett / Werner
Mr. Narrain	Germany	Computer modelling for the optimisation of low-head hydropower schemes	Mynett / Wright

Name	Country	Title thesis	Promoter
Mr. Mehvar	Islamic Republic of Iran	Quantifying climate change driven environmental losses on coasts	Ranasinghe
Mr. Rajapaksha Mudiyanseelage	Sri Lanka	A Holistic, Generic Modelling Approach To Simulate Catchment-Estuary-Coastal System Behaviour At Macro Time Scales	Ranasinghe / Roelvink
Mr. Ngo	Vietnam	Development of an efficient approach to determine socio-economically optimal flood risk reduction strategies	Ranasinghe / Zevenbergen
Ms. Akter	Bangladesh	Decade to Century Scale Geo-Morphological Development of the Bangladesh Delta	Roelvink
Mr. Nguyen	Vietnam	Development of 3D Wave-current Interaction Formulation in Delft3D Model, Application in the Mekong Estuaries and Outflow Areas	Roelvink
Mr. Vo	Vietnam	Interactions between hydrodynamics and morphodynamics in Alluvial Estuaries	Roelvink
Mr. Dam	The Netherlands	Long-term process-based modelling of the morphology of estuaries	Roelvink
Mr. Zuo	China	Sediment Alluvial Process in Wave-current Boundary Layer	Roelvink
Mr. van Ormondt	The Netherlands	Strategic flood risk analysis and management: A system based approach	Roelvink
Ms. Minikowski Achete	Brazil	Long term Morphodynamics Modeling of San Francisco Bay	Roelvink / van der Wegen
Ms. Delros Reyes	Philippines	Modernization Strategy for National Irrigation Systems in the Philippines: Linking Design, Operation and Water Supply	Schultz
Mr. Junaidi	Indonesia	Optimisation of the Urban Drainage and Flood Protection of Padang City, Indonesia	Schultz
Mr. Winaktoe	Indonesia	Urban polder development. Case study on the Province of Daerah Khusus Ibukota (DKI) Jakarta	Schultz
Ms. Yekti	Indonesia	Role of Reservoir Operation in Sustainable Water Supply to Subak Irrigation Systems Case Study in the South of Bali	Schultz / Nyoman Norken (Udayana University Indonesia)
Mr. Poldul	Thailand	Cost-effectiveness of Multi-Policy Implication of Groundwater management: A case study of the Lower Chao Phraya Basin in Thailand	Solomatine
Mr. Bayissa	Ethiopia	Drought assessment and forecasting for the Upper Blue Nile Basin by assimilating remotely sensed data into a hydrological model	Solomatine
Mr. Chacon Hurtado	Colombia	Dynamic multi-objective optimisation of dynamic heterogeneous networks of physical and social sensors	Solomatine
Mr. Hartanto	Indonesia	Integrating multiple sources of information and hydrological modelling to reduce uncertainty in operational water management	Solomatine
Mr. Marquez Calvo	Mexico	Multi-objective optimization applied to complex model-based water-related problems: robustness, efficiency, interactivity	Solomatine
Mr. Mazzoleni	Italy	Optimal Integration of Heterogeneous Uncertain Data into Water Models	Solomatine
Mr. Laverde Barajas	Colombia	Uncertainty propagation and its implications in flood risk assessment using data-driven approaches	Solomatine
Mr. Diaz Mercado	Mexico	Spatio-temporal analysis of hydrological drought: integration of data-driven and conceptual modelling techniques	Solomatine
Mr. Mukolwe	Kenya	Flood Inundation Modelling Under Uncertainty: Estimation, Visualisation and Communication	Solomatine / Di Baldassarre
Mr. Md. Ali	Malaysia	Flood Risk Mapping Under Uncertainty: Application to Sungai Johor Basin, Malaysia	Solomatine / Di Baldassarre
Mr. Delipetrev	The Republic of Macedonia	Decision Support System for Water Resources Management in the Republic of Macedonia: Case Study of Bregalnica River Basin	Solomatine / Jonoski
Mr. Castro Gama	Colombia	Hydraulic Model Based Simulation and Optimization of Water Distribution Networks for Energy Consumption and Water Losses Reduction	Solomatine / Jonoski
Mr. Pan	China	Modeling, optimization and visualization framework for web-based decision support in water management	Solomatine / Popescu
Ms. Ahmed	Egypt	Climate Change and Development Impacts on Groundwater Resources in the Nile Delta, Egypt	Uhlenbrook / Jonoski
Mr. Hassaballah	Sudan	The Hydrological Impacts of Land Use/Cover and Climate Changes on Dinder River Morphology and Eco-hydrology of the Dinder National Park (DNP)/ Sudan	Uhlenbrook / Mohamed
Ms. Digna	Sudan	On Optimising the operation of the multi-reservoir system in the Eastern Nile basin considering water and sediment fluxes	Uhlenbrook / vd Zaag
Ms. Saraiva Okello	Mozambique	Bridging the gaps between Hydrology, Land use and Water Management using Tracers and Water resources Modelling in the Incomati Basin	Uhlenbrook / vd Zaag / Jewitt
Mr. Yang	China	Quantitative assessment of Groundwater and Surface water interactions in Erdos plateau, China	Uhlenbrook / Zhou

Name	Country	Title thesis	Promoter
Ms. Basco Carrera	Spain	Participatory decision making for sustainable Integrated Water Resources Management. Strengthening stakeholder ownership using a Collaborative Modeling approach	v Beek / Jonoski
Mr. Zhou	China	Decision Support System for Managing Underground Water Related Assets(Water Distribution)	Vairavamoorthy
Mr. Sanchez Ralda	Guatemala	The use of information and communication technologies, to warn poorer women and men in anticipation to more extreme weather events and floods	van Dijk
Ms. Riungu	Kenya	Biogas facilities as a sanitation for the informal urban slum settlements: Enhanced sludge valorisation	van Lier
Mr. Sanchez Guillen	Panama	Cost-Effective Municipal Wastewater Treatment by Coupling of UASB and ANAMMOX Reactors	van Lier / Brdjanovic
Mr. Abdullah	Iraq	Integrated water resources management in the Shatt-al-Arab	vd Zaag
Mr. Kiptala	Kenya	Managing Basin Interdependencies: Understanding tradeoffs and synergies in the Pangani River Basin, Tanzania	vd Zaag
Mr. Gharesifard	Islamic Republic of Iran	Mapping the behavioural determinants of ICT-based citizen participation in water management	vd Zaag
Ms. Costa de Barros	Brazil	The social and ecological dimensionns of a river basin trajectory.A case study of the Sao Francisco River Basin-Brazil	vd Zaag
Mr. Gebremicael	Ethiopia	Modelling the impact of catchment management on the hydrological processes in the Head water of Tekeze-Atbara River Basin, Nile River Basin	vd Zaag
Mr. Muanda	Democratic Republic of Congo	Understanding the organisation of sanitation services in informal settlements of South Africa	vd Zaag
Mr. Godinez Madrigal	Mexico	Water allocation dilemma between two economic heartlands: the case study of Los Altos-Leon-Guadalajara interbasin water transfer	vd Zaag
Ms. Kassa	Ethiopia	Gender, Environment and Sustainable Development-Understanding the Linkages. The case of Blue Nile river basin	vd Zaag / Ahlers
Ms. Metzker Netto	Brazil	Knowledge Creation in Networks Dynamics, in Terms of Water Resources Management	vd Zaag / do Carmo Sobral (UFPE Brasil)
Ms. De Souza Braga	Brazil	The impact of urban image built in the Brazilian and Chilean dictatorship in managing conflicts over water use	vd Zaag / do Carmo Sobral (UFPE Brasil)
Mr. Yalew	Ethiopia	Integrated Assessment of Land Use and Water Resources Management in the Upper Blue Nile River Basin	vd Zaag / v Griensven
Mr. Worku	Ethiopia	Integrated Management of Water Reesources and Optimal Reservoir Release for Energy, Irrigation and Ecosystem Services. A case Study of the Omo-Ghibe Basin	vd Zaag / Wright
Mr. Salinas Rodriguez	Bolivia	Adaptation Tipping Points and Opportunities for Flood Resilience and Water Sensitivity	Zevenbergen
Mr. Radhakrishnan	India	Development and application of Real-in-options (RIO) accounting tools for stormwater management and flood safety	Zevenbergen
Ms. Huynh	Vietnam	Integrated Flood-Related Water Quality abd Health Risk Assessment in Urban Area	Zevenbergen
Mr. Nilubon	Thailand	Urban Flood Risk Analysis and Management using Relational Urbanism Model: A Case Study in Ayutthaya Historic City (under UNESCO), Thailand	Zevenbergen
Ms. Boakye Anseh	Ghana	Inequalities in drinking water quality in Urban Areas: A case study of Lilongwe, Malawi	Zwarteveen
Ms. Hasan	Bangladesh	Participatory Tools for Delta Planning	Zwarteveen
Mr. Batubara	Indonesia	Socio-hydrology of flooding in Jakarta	Zwarteveen
Mr. Biza	Mozambique	Governance of sanitation , Maputo	Zwarteveen / vd Zaag
Mr. Nhampoca	Mozambique	Use of treated wastewater in Maputo	Zwarteveen / vd Zaag
Ms. Ahmed	Bangladesh	Application of resilience to flood risk management on Dhaka	Zevenbergen
Mr. Olthuis	The Netherlands	App-grading wet slums	Zevenbergen
Mr. Sayers	United Kingdom	Strategic flood risk analysis and management: A system based approach	Zevenbergen / Jonkman

Annex 4

Research lines

Integrated Water Systems and Governance Department	
Chair Group	Research line
Water Management	Biophysical and social dimensions of water systems
	Institutional and economic dimensions of water systems
	Integrative instruments and interventions
Water Governance	Water Politics
	Water Law
	Water Policy
Hydroinformatics	Data, modelling, uncertainty and risk
	Systems engineering, optimization and integration
	Collaborative decision making and Internet-based computing and learning
Knowledge and Capacity Development	Analysing the dynamics of professional knowledge dissemination and access to the global knowledge pool
	Investigating the nature, extent and boundaries of citizen observatory contributions to improved knowledge flows and their implications for water governance
	Assessing the economic and social value of knowledge and capacity development
	Understanding the determinants for the effectiveness of knowledge and capacity development, and developing measuring metrics. The focus is, for the moment, on water supply utilities and Water Operator Partnerships
	Analysing the dynamics of the learning, competence building and innovation systems for the water sector. Getting an operational grip on competence and skill building and organisational assessments, for the purpose of developing capacity development strategies

Water Science and Engineering Department	
Chair Group	Research line
Land and Water Development	Water and food security
	Irrigation and ecosystems, in particular in wetlands and coastal lowlands
	Non-conventional irrigation options
	Modernization of irrigation and drainage systems
Aquatic Ecosystems	Nutrient and pollutant cycling
	Constructed wetlands
	Linking ecological processes with sustainable wetland use and livelihoods
Hydrology and Water Resources	Hydrological processes near the earth's surface
	Basin hydrology and global changes
	Ecohydrology
Coastal Systems, Engineering and Port Development	Integrated modeling of coastal processes and evolution
	Performance and reliability of breakwaters, coastal structures and flood defence systems
	Quantitative assessment of coastal risk
	Port development: traffic modelling, design of port master plans and expansion plans, adaptive port planning
	Port-related hydrodynamic and morphological modelling
River Basin Development	River processes in natural and man-made environments
	Optimal design of hydraulic structures
	Reservoir operation and management
Flood Resilience	Water Sensitive Cities
	Disaster risk reduction

Research lines

Environmental Engineering and Water Technology Department	
Chair Group	Research line
Water Supply Engineering	Groundwater treatment
	Surface water treatment
	Desalination and water reuse
	Water transport & distribution
Pollution Prevention and Resource Recovery	Cleaner production and pollution prevention
	Solid waste management
	Resource recovery (water, nutrients, minerals, energy, new materials)
	Ecotechnologies (anaerobic digestion, natural treatment systems, photobioreactors)
Sanitary Engineering	Advanced nutrient removal processes
	Wastewater treatment processes development and modelling
	Use of seawater in sanitation
	Resources oriented sanitation
	Sanitation provision to the urban poor
	Low cost wastewater collection and treatment
	Anaerobic treatment of wastewater and sanitary slurries
	Faecal sludge management
	Emergency sanitation
	Hybrid systems for sewage treatment in developing countries
	Asset management of urban water infrastructure Flood and disaster risk management
	Model-based multi-objective optimization of urban water systems
	Public health impacts of Urban Water Systems

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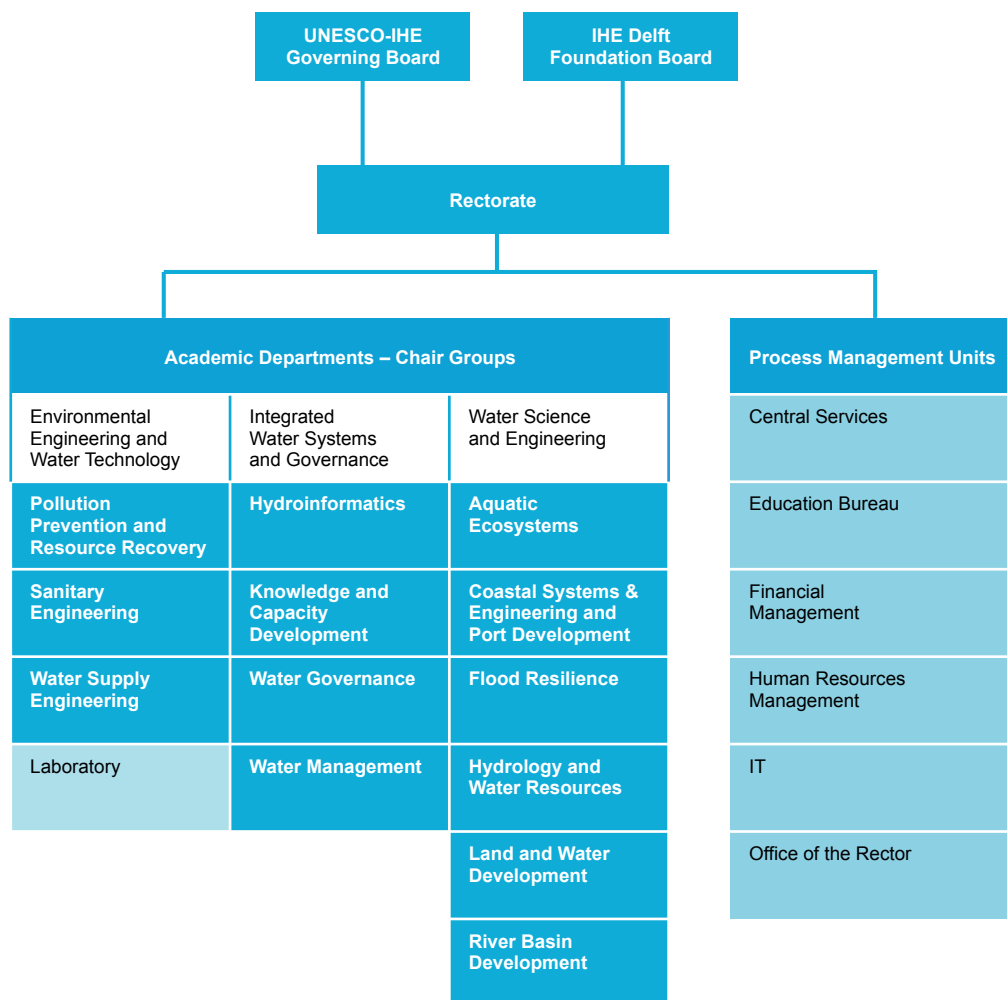
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Annex 6

Organizational chart of UNESCO-IHE



Annex 7

Committees

UNESCO-IHE Governing Board

Fritz Holzwarth, Chair, until 19 June
Iwona Wagner, Chair, per 19 June
Blanca Jimenez Cisneros, Representative of the Director-General of UNESCO
Flavia Schlegel, Representative of the Director-General of UNESCO
Claudio Caponi, Observer
Ben Braga
Ali Reza Daemi, per 1 July
Tomoharu Hori, until 30 June
Tineke Huizinga-Heeringa
Richard L. Lino, until 30 June
Abdin Mohamed Ali Salih
Michael Mutale, per 1 July
Gabriel Oteze
Louis de Quelerij
Ahmet Saatci, per 1 July
Avinash C. Tyagi
John Verbakel

IHE Delft Foundation Board

Wim Deetman, Chair, until 29 May
Dirk Jan van den Berg, Chair a.i., per 29 May
Louis de Quelerij
Koos Richelle, per 2 December

Rectorate

Stefan Uhlenbrook, Chair, until 1 November
Fritz Holzwarth, Chair, per 1 November
Edmond Wellenstein, Advisor, per 16 March
Greet Vink

Academic Board

Guy Alaerts
Gary Amy
Giuliano Di Baldassarre
Wim Bastiaansen
Damir Brdjanovic
Meine-Pieter van Dijk
Charlotte de Fraiture
Huub Gijzen
Joyeeta Gupta
Fritz Holzwarth, Observer, per 1 November
Kenneth Irvine
Maria Kennedy
Piet Lens
Jules van Lier
Michael McClain
Jentsje van der Meer
Arthur Mynett
Rosh Ranasinghe
Dano Roelvink
Huub Savenije
Bart Schultz
Dimitri Solomatine
Stefan Uhlenbrook, Chair, until 1 November
Nigel Wright
Pieter van der Zaag
Chris Zevenbergen
Margreet Zwarteven

Operational Management Group

Greet Vink, Chair
Edmond Wellenstein, Advisor, per 6 July
Robert de Bruijn
Gaetano Casale
Wilmar Ceton
Ali Dastgheib
Angélique van Drunen, until 22 June
Arno Heins
Erwin Ploeger
Ioana Popescu, until 30 April
Janez Susnik, per 1 May
Juliëtte Terlaak
Nemanja Trifunovic
Ruth Webber, per 1 August

Examination Board

Charlotte de Fraiture, Chair
Andreja Jonoski, Vice Chair, per 15 October
Piet Lens, Vice Chair, until 14 October
Anne van Dam
Susan Graas
Carlos Lopez Vazquez
Ilyas Masih, until 14 October
Erwin Ploeger
Peter van der Steen, per 15 October
Nynke Jo Smit (external)

Education Coordination Committee

Erwin Ploeger, Chair
Wilmar Ceton
Jan Willem Foppen
Arno Heins
Edwin Hes
Tineke Hooijmans
Erick de Jong
Ilyas Masih, per 15 October
Hermen Smit, until 14 October

Education Development Committee

Kenneth Irvine
Maria Kennedy
Jan Herman Koster
Michael McClain
Erwin Ploeger
Stefan Uhlenbrook, until 1 November
Margreet Zwarteven

Works Council

Patricia Darvis, Chair
Jolanda Boots
Ed Gerritsen van der Hoop
Hans van der Kwast
Sylvia van Opdorp-Stijlen
Assela Pathirana
Maria Rusca, until 1 September

Student Association Board

Jeleel Balyaminu
Fredrick M. Mageni
Mercy Ncube
Bello Oyewumi Ishaq

PhD Association Board

Isoif Skoullou, Chair
Shahnoor Hasan, Vice Chair
Alex Kaune, Vice Chair
Almotasembellah Abushaban
Musaed Aklan
Nirjan Dhakal
Shakeel Hayat
Chris Metzker
Joel Onyango

Cultural Ambassadors

The UNESCO-IHE cultural ambassadorship programme builds a pact between culture and science. The Institute appoints an individual who possesses widely recognized talent in the arts, sciences, literature, entertainment, sport or other fields of public life, bestowing the title of cultural ambassador on these talented people

Gil Garcetti, photographer

Honorary Fellows

The UNESCO-IHE Honorary Fellowship award is bestowed in recognition of persons of distinction who have either made major contributions to the work of UNESCO-IHE or earned distinction for activities associated more widely with the context of the Institute's mission.

2015 Prof G. Ekama
2014 Prof. B. Moss
2012 Prof. J.A. Cunge
2011 Prof. J.P. O'Kane, PhD
2010 Prof. D.P. Loucks
2004 W.J. Cosgrove
1999 Prof. M. Abu Zeid, PhD
1998 Prof. W.A. Seegeren, MSc
1998 R. Moochtar, MSc
1996 Prof. J.W.M. la Rivière, PhD, MSc
1993 M.F. Strong, PhD
1992 Prof. J.C.I. Dooge
1990 Prof. L. Huisman, PhD, MSc
1985 Prof. L.J. Mostertman, MSc
1976 Prof. W.F.J.M. Krul
1968 Prof. J.Th. Thijssen, MSc

Annex 8

External memberships

Anema, Kim

Project Coordinator

- Advisory committee of the WODC project Weerbaarheid van Nederland (Resilience of the Netherlands)
- Leads the participation of the Netherlands Red Cross in FP7 COBACORE.

Bastiaanssen, Wim

Professor of Global Water Accounting

- Member of the Supervisory Council of the Water Footprint Foundation
- Senior Fellow of the Robert Daugherty Water for Food Institute

Bogaard, Thom

Assistant Professor of Hillslope and Land Degradation

- Treasurer of the Treub Maatschappij (Organization for supporting research in the tropical regions)
- Member of the board of the CERG (Centre European des Risques Geomorphologique (Specialized Centre of Council of Europe EUR-OPA Major Hazard Agreement))
- Editor of HESS
- Editor of NHESS
- Editor of combined HESS-NHESS special issue: Communication and Education in Geoscience: Practice, Research and Reflection.

Brandimarte, Luigia

Senior Lecturer in Hydraulic Engineering & River Basin Development

- Member of IAHR
- Member of IAHS
- Reviewer for HESS, Hydrological Sciences Journal, Proceeding of ICE Water Management, Hydrological Processes, Geophysical Research Letters.

Brdanovic, Damir

Professor of Sanitary Engineering

- Chairman of the IWA SG Environmental Engineering Education (until 2015)
- Member of the International Editorial Board of IWA Journal of Water, Sanitation and Hygiene for Development

Bruggen, Hans van

Senior Lecturer in Microbiology

- Member of IWA Specialist Group on Use of Macrophytes in Water Pollution Control

Bruijn, Robert de

Manager Finance

- Member of Dutch association of Financials for Financials (FFF)

Casale, Gaetano

Liaison Office Manager

- Member of the Water Supply and Sanitation Technology Platform and Chair of the Working Group "Water Beyond Europe"

Cattapan, Alessandro

Lecturer / Researcher in River Engineering

- Member of the Association of Engineers of the Padova Province, Italy

Crosato, Alessandra

Associate Professor in River Morphology and River Engineering

- Member of Programme Committee of the Netherlands Centre for River studies (NCR)
- Member of Morphological Triangle (Dutch leading group on River Morphodynamics and related engineering)
- Member of scientific committee RCEM International Conference on River Coastal and Estuary Morphology 2015 (Liquitos, Peru)
- Member of scientific and organising committees IAHR 2015 World Congress (Den Haag, the Netherlands)
- Member of scientific committee IAHR 2016 Europe Congress (Liege, Belgium)
- Member of scientific committee IAHR 2017 World Congress (Panama)
- Member of the Europe Division Leadership Team of IAHR
- Member of European Mechanics Society
- Member of Research School SENSE (Socio-Economic and Natural Sciences of the Environment)
- Member of editorial board of the international journal Water Management
- Guest editor international journal Advances in Water Resources (Elsevier)
- Organizer workshop "Experimental Practices in River Morphodynamics" (3 July 2014, delft, the Netherlands)
- Invited speaker at Delft-Japan Seminar on "River Dynamics & Morphology" (1 Sept. 2014, Delft, the Netherlands)
- Organizer NWO-funded workshop "Games for change: Building consensus in managing the Tana Delta, Kenya" with local stakeholders (8-9-10 July 2014)
- Co-convenor of session "River morphodynamics modelling" at EGU 2014 (Vienna, Austria)

Dam, Anne

Associate Professor of Environmental Systems Analysis

- Editorial Board of Aquaculture (Elsevier)
- Volume Editors, The Wetlands Book (Springer)
- Executive editor of Aquaculture Reports (Elsevier)
- Observer on the Ramsar Scientific and Technical Review Panel

Dastgheib, Ali

Senior Lecturer in Port Development

- Member of the International Organisation on Waterborne Transport (PIANC)
- Member of the International Cooperation commission of PIACN
- Member of the Centrum voor Kustonderzoek (NCK)

Fernández Alvarez, Berta

Quality Manager

- NVAO Certified Accreditation Secretary/Coordinator

Ferrero, Giuliana

Lecturer in Water Supply Engineering

- Member of International Water Association (IWA)
- Member of International Ultraviolet Association (IUVA)
- Member of SENSE research school

Foppen, Jan Willem

Associate Professor of Hydrology

- Editorial board of the Journal of Environmental Quality

Fraiture, Charlotte de

Professor of Hydraulic Engineering for Land and Water Development

- Member Steering Committee of Water Land and Ecosystems (WLE), a CGIAR research program
- Editor Water Resources and Rural Development (Elsevier journal)
- Member of the Advisory Committee: Small Scale Irrigation in Africa program (SAFI)
- Member of the Science Program Committee of the Stockholm Water Week
- Vice president International Committee on Irrigation and Drainage (ICID)- since October
- Member of the jury for the ICID WatSave prize (water saving in irrigation & drainage)
- Member ICID working group on Environmental aspects of irrigation
- Chair Netherlands Committee on Irrigation and Drainage (NethCID)

Gersonius, Berry

Senior Lecturer in Urban Flood Resilience

- knowledge advisor of the MIRT study multi-level safety Island of Dordrecht.
- Member of the User Committee of the STW project Multifunctional Flood Defences, WP Adaptivity and Robustness.
- Local Organising Committee for the 3rd Annual Workshop on Decision Making Under Uncertainty

Gettel, Gretchen

Senior Lecturer in Aquatic Biogeochemistry

- Member of Developing Country Engagement Committee, American Society of Limnology and Oceanography

Glas, Wim

Application Manager

- Member of the Association for Learning Technology (ALT)
- Member of the European Society for Engineering Education (SEFI)
- Member of the Nederlandstalige Moodle Vereniging (Ned-Moove)

Griensven, Ann

Associate Professor of Hydrology and Water Quality

- Editorial board of Hydrology and Earth System Sciences (HESS, since 2012)
- Editorial board of Environmental Modelling and Software (since 2012)
- Associate editor of the journal wires-water
- Board member of the international Environmental Modelling and Software Society (since 2012)
- Board member of Soil and Water

- Assessment (SWAT) foundation (since 2012)
- Board member of the Belgian committee for UNESCO-IHP (since 2013)
- Board member of the OpenMI executive committee (since 2010)
- Board member of the Boussinsq center (since 2014)
- Member of the commission of water quality of IAHS (since 2012)
- Member of the working group 'accuracy' of IAHS Panta Rhei (since 2013)

Gupta, Joyeeta

Professor of Law and Policy in Water Resources and Environment

- Chair, Board, Centre for Maritime Research (MARE)
- Steering Committee CGIAR (Global Agricultural Research Partnership) Research programme on Forests, Trees and Agroforestry;
- Joint Programming Initiative - Climate Transdisciplinary Advisory Board, Brussels (this is an initiative of 14 EU Member States and 7 Observer Countries);
- Science Europe, Scientific Committee for the Social Sciences, Brussels;
- Climate Change Committee, International Law Association (ILA)
- IHDP Earth System Governance Project/ Research Alliance
- Lead Author, Global Environmental Outlook-6, UNEP
- Member, Expert groups and ad hoc groups developing deliverables on the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES);
- Scientific Advisory Board, EU-FP7 Proposal: Forward Looking Analysis of Grand Societal Challenges and Innovative Policies, FLAGSHIP, ISIS, Italy;
- Advisory and supervision committee, Knowledge collection and research department, National Commission on Sustainable Development (NCDO);
- Vice-president, Commissie Ontwikkelingssamenwerking (COS);
- Member, Adviesraad Internationale Vraagstukken (AIV);
- Member, NWO-IASA committee;
- Board, Climate Strategies, International Research Consortium, UK;
- Board of Supervisors (Raad van Toezicht), OXFAM NOVIB, The Hague;
- Board of Directors, Royal Institute for the Tropics, Amsterdam
- Editor in Chief since 2004; Associate Editor since 1999, International Environmental Agreements: Politics, Law and Economics (IF: 1.659) (2010-2014), Springer
- Member, Editorial Board, Review of European Community and International Environmental Law;
- Member, Editorial Board, International Journal of Water Governance;
- Member, Editorial Board, Catalan Environmental Law Journal, Revista Catalana de Dret Ambiental
- Member, Editorial Board, Current Opinion in Environmental Sustainability (IF 5 yr 3.985), Elsevier;
- Member, Editorial Board, Carbon and Climate Law Review, Lexisn;
- Member, Editorial Board, International Community Law Review, Brill
- Member, Editorial Board, Environmental Science and Policy, (IF 3.514) Elsevier Science;
- Member, Editorial Board, and associate

editor International Journal of Sustainable Development, Inderscience (since 2015)

Hayde, László

Senior Lecturer in Irrigation Engineering

- Vice-President Honorary International Commission on Irrigation and Drainage (ICID)
- Chairman of European Regional Working Group of ICID;
- Member of the Working Group on History of Irrigation, Drainage and Flood Control
- Member of the Permanent Committee on Strategy Planning and Organizational Affairs of ICID
- Member of the International Water History Association (IWhA)
- Member of the Deutsche Wasserhistorische Gesellschaft (DWhG)
- Associate Editor of Irrigation and Drainage journal

Hes, Edwin

Lecturer in Environmental Systems Analysis

- Member of the scientific committee for WETPOL 2015

Irvine, Ken

Professor of Aquatic Ecosystems

- Editorial Board of Aquatic Conservation: Marine and Freshwater Sciences.
- Observer on the Ramsar Scientific and Technical Review Panel
- Volume Editor, The Wetlands Book (Springer)

Karimi, Poolad

Senior Lecturer/Researcher in Irrigation Management

- Member research school SENSE (Socio-economic and natural sciences of the environment)
- Member of European Geosciences Union (EGU)

Kelderman, Peter

Senior Lecturer in Environmental Chemistry

- Member of IWA Specialist Group on Watershed and River Basin Management
- Member of the Management Committee of IWA Specialist Group on Watershed and River Basin Management
- Member Scientific Committee of four IWA Conferences of the Specialist Group on Watershed and River Basin Management

Kennedy, Maria

Professor of Water Treatment Technology

- Member of the Editorial board of Desalination and Water treatment
- Member of the Editorial board of Applied Water Science
- Member of the Board of Directors of the European Desalination Society (EDS)
- Member of the Science and Technology Board of the EU-Joint Programming Initiative (JPI) on Water
- Member of the Technology Innovation Jury, Aquatech Amsterdam (2015)
- Member of International Desalination Association (IDA)
- Member of International Water Association (IWA)
- Scientific committee of the European Desalination Society (EDS) Desalination for clean water and energy conference (10 - 14 May), Palermo, Italy.
- Organizing committee of the European Desalination Society (EDS) Desalination for clean water and energy conference (10 - 14

May), Palermo, Italy.

- Scientific committee of the International Desalination Association World Congress: Desalination and Water Reuse - Desalination for clean water and energy conference (28 Aug - 4 Sep), San Diego, USA.

Kok, Ewoud

Marketing Officer

- Member of Dutch Higher Education Network for International Marketing (Dhenim)

Kooy, Michelle

Senior Lecturer in Water Governance

- Associate Editor of WIRES-Water
- Member of the International Advisory Board of the UNESCO International Hydrology Program for Human Settlements

Kwast, Hans van der

Senior lecturer in Ecohydrological Modeling

- Member of Koninklijk Nederlands Aardrijkskundig Genootschap (KNAG, Royal Dutch Geographical Society)
- Member of Vakvereniging Fysische Geografie (VVFg)
- Member of OSGeo.nl
- Member of scientific committee of the Open Water Symposium
- Member of scientific Committee GMES and Africa Long Term Management of Natural Resources Workshop, Sharm el-Sheikh, Egypt

Lens, Piet

Professor of Environmental Biotechnology

- IWA Distinguished Fellow
- Organized EMBO Workshop on Microbial Sulfur Metabolism. 12–15 April 2015. Helsingør, Denmark.
- Organizing committee of International Conference on Solid Wastes 2015: Knowledge Transfer for Sustainable Resource Management (ICSWHK2015). May 19-23 2015. Hong Kong Baptist University, Hong Kong.
- Chair of Working Group 3 meeting of COST action 1302: "Engineering of trace metal dosing to anaerobic bioreactors". May 27, 2015. UNESCO-IHE, Delft, The Netherlands
- Chair of 4th International Conference on Research Frontiers in Chalcogen Cycle Science & Technology - G16, May 28-29 at Delft, the Netherlands.
- Organizing committee of EMChIE 2015 - 7th European Meeting on Chemical Industry and Environment. June 10-12th, 2015. Tarragona, Spain.
- Organizer of Contaminated soil. Erasmus Mundus Joint Doctorate ETECOS3 summer school. 29 June - 3 July 2014. Paris, France.
- Organizing committee of Biotechniques Ghent 2015 - 6th International Conference on Biotechniques for Air Pollution Control. 2-4 September. Gent, Belgium.
- Organizer of Erasmus Mundus Master Class IMETE summer school Resource recovery from wastewater. 8-10 September 2015. Gent, Belgium.
- Organizing committee of IWA Young Water Professionals BeNeLux Conference. 28-30 September, 2015. Leeuwarden, the Netherlands.

Lier, Jules van

Professor of Environmental Waste Water Engineering

- Associate Editor - IWA "Water Science and Technology" (from 2008)

- Member International Advisory Committee IWA Journal of Water, Sanitation and Hygiene for Development (from 2011)

Lolkema, B.S. (Berend)
Laboratory Research Analyst

Lopez Vazquez, Carlos

Associate Professor of Sanitary Engineering

- Associated Editor of Water Science and Technology (since 2011)
- Invited Lecturer to the Federal University of Mina Gerais from May 3rd to 8th, 2015

Marence, Miroslav

Associate Professor of Storage and Hydropower

- Editorial Board of the international journal Water Management
- Member of Sustainable Hydropower Assessment Protocol Chamber
- International Society of Rock Mechanics
- International Tunnelling Association
- Croatian Geotechnical Society

Maskey, Shreedhar

Associate Professor of Hydrology and Water Resources

- Member of working group on Mountain Hydrology and Drought in the Anthropocene
- Member of working group IAHS Panta Rhei.
- Editorial Board of Journal of Flood Risk Management
- Editorial Board of Frontiers in Hydrosience

McClain, Michael

Professor of Ecohydrology

- Editorial board of the journal Ecohydrology and Hydrobiology
- Co-chair of the Science Steering Committee of UNESCO IHP's Ecohydrology Programme
- Advisory Board of the International Center for Integrated Water Resources Management (ICIWaRM), a UNESCO Category 2 water centre headquartered at the U.S. Army Engineer Institute for Water Resources

Meer, Jentsje

Professor of Coastal Structures and Ports

- ICCE scientific committee
- member of scientific committee Coastlab, Ottawa

Mehari Haile, Abraham

Senior Lecturer in Land and Water Development

- Secretary of the ICID working group on Drought
- Co-chair of the Spate Irrigation Network Foundation (SpNF)
- Convener of ICID working group on Sustainable On-Farm Irrigation Development

Mohamed, Yasir

Associate Professor of Water Resources Management

- Guest editor of special issue of the Journal of Phys. Chem. Earth
- Guest editor of the Spatial Hydrology journal
- Chair of the Sudan committee on the assessment of the impacts of the Ethiopian Grand Renaissance dam on Nile
- Member of the regional steering committee of the Joint Multi-Purpose Project of the Eastern Nile Technical Regional Office, ENTRO, Addis Ababa Ethiopia

Mulenga, Martin

Senior Lecturer in Sanitation / Sanitary Engineering

- Board of Trustees of the Water and Sanitation for Africa (WSA) Research and Competence Centre
- Technical advisor to Build IT International, a UK based NGO, promoting sustainable building and sanitation technologies in rural and peri-urban areas in Africa
- Member of the Rural Water Supply Network (RWSN) Self-Supply Global Working Group, from 2011 onwards
- Member of organising committee for the International Conferences on Faecal Sludge Management, from 2014 onwards
- Member of organising team for the Netherlands Association of African Studies (NVAS) Africa and Technology Study Day which was hosted by UNESCO-IHE on 17 October 2015

Mynett, Arthur

Professor of Hydraulic Engineering

- IAHR Vice President and Council Member, International Association for Hydro-environment Engineering and Research.
- Chair Local Organizing Committee, IAHR2015 World Congress Delft-TheHague.
- Adjunct Professor, Chinese Academy of Science Research Centre on Eco-environmental Studies, Beijing, China.
- Visiting Professor, Sichuan University, Chengdu, China.
- Visiting Scientist, Nanjing Hydraulic Research Institute, Nanjing, China.
- Member of the Royal Netherlands Institute of Engineers (KIVI).
- Member of the UK Institute of Civil Engineers (ICE).
- Member of the International Association of Hydrological Sciences (IAHS)
- Member of the International Water Association (IWA).
- Member of the American Society of Civil Engineers (ASCE-EWRI).
- Member of Editorial Boards: ENMO (Environmental Modeling and Assessment), HYP (Hydrological Processes), JHI (Hydroinformatics), ISP (Ship Building Progress), Journal of Hydraulic Research (IAHR), Journal of Hydraulic Engineering (ASCE), Journal of Water Management (ICE).
- Member of the Governing Board, Netherlands Centre for River Research (NCR).
- Member of the Governing Board, Netherlands Centre for Coastal Research (NCK).

Paron, Paolo

Senior Lecturer in Hydraulic Engineering and River Basin Development

- Associate editor of the Journal of Maps
- Scientific Committee of African Deltas, conference in Dar Er Salam, Tanzania
- Fellow of the Royal Geographical Society - FRGS
- Member of IAG (International Association of Geomorphologists)
- Member of IAHS
- Member of EGU
- Member of KenWeb, Kenya Wetland Conservation
- Invited Editor of a book on Hydro-meteorological hazards, for Elsevier

- Reviewed papers for the following journals: Remote Sensing of the Environment; HESS; Earth Surface Processes and Landforms; Journal of Maps

Pathirana, Assela

Associate Professor of Integrated Urban Water Cycle Management

- Editorial board of the online journal Hydrological Research Letters

Petruševski, Branislav

Associate Professor of Water Supply Engineering

- Member of International Water Association (IWA)
- Scientific committee of 6th International Congress on Arsenic in the Environment (19-23 Jun 2016)
- Organizing committee of the IWA Specialist Groundwater Conference (9-11 Jun 2016)

Ploeger, Erwin

Head of the Education Bureau

- Co-Chair of the Platform for International Education (PIE)
- Member of the OCIB board, the 'Stichting Opleiding Civiel Ingenieurs voor werk in het Buitenland'
- Member of the Editorial Board of Transfer Magazine

Popescu, Ioana

Associate Professor of Hydroinformatics

- Member of IAHR (International Association of Hydro-Environment)
- Member of EGU (European Geoscience Union)
- Member of RWA (Romanian Water Association)
- Editor of IWA Water wiki, the on-line platform for the global water community to interact and share knowledge online
- Associate Editor to Journal of River Basin and Management

Raj, Eldon

Lecturer in Resource Recovery Technology

- Winner of Young Scientist Award for research work on "Optimization of continuously operated biofilter performance for volatile pollutants present in air" at CESE 2015 conference held in Sydney, Sept 2015.
- Organizing committee of the 4th International Conference on Research Frontiers in Chalcogen Cycle Science & Technology - G16, May 28-29 at Delft, the Netherlands.
- Member of technical committee of PADUCO
- Session chair at G16 conference
- Session chair at CESE2015 conference
- Session chair at Biotechniques 2015 conference

Ranasinghe, Rosh

Professor of Climate Change Impacts & Coastal Risk

- Member International Scientific Board, International Coastal Symposium 2016 (Sydney, Australia)
- Member International steering committee, The International Symposium on Impact of Climate Change on the Coastal zone 2014 (Colombo, Sri Lanka)
- Member of National Committee of Coastal and Ocean Engineering Australia
- Visiting Professor at The Australian National University, Canberra, Australia
- Member SENSE research schools
- Advisor, Strategic modelling, Deltares

Rijke, Jeroen*Visiting Researcher*

- guest editor of a Special Issue on Adaptive Delta Management of Water Governance

Roelvink, Dano*Professor of Coastal Eng. and Port Development*

- IAHR 2015 LOC
- member of EIA team for new port of Seme Podji
- jury member for habilitation directeur de recherche of Xavier Bertin

Ronteltap, Mariska*Senior Lecturer in Sanitary Engineering*

- Secretary of the IWA Specialist Group on Resource Oriented Sanitation

Ruyter van Steveninck, Erik de*Senior Lecturer Aquatic and Marine Ecology*

- Board member CapNet
- Advisor User Groups Caribbean Netherlands Science Institute
- Member Programme Preparation Committee NWO Caribbean Call

Salinas Rodríguez, Sergio*Lecturer in Water Supply Engineering*

- Member of International Water Association (IWA)
- Member of International Desalination Association (IDA)
- Member of the European Desalination Society (EDS)

Santos - De Quaij, Raquel dos*Education Facilitator*

- Membexr of the IWA (International Water Association) specialist group on Sanitation & Water in Developing Countries
- Member of the IWA specialist group on Benchmarking and Performance Assessment
- Member of the IWA specialist group on Watershed and River Basin Management
- Representative in the Brazilian-Dutch Dialogue on Urban Water Management coordinated by NWP (Netherlands Water Partnership)

Sharma, Saroj*Associate Professor of Water Supply Engineering*

- Editor of Journal of Water SRT: Aqua (IWA journal)
- Life member of Nepal Engineers Association
- Member of International Water Association (IWA)
- Member of the European Desalination Society (EDS)
- Member of International Water Association SG Water Reuse
- Member of International Water Association SG Efficient Urban Water Management

Siebel, Maarten*Associate Professor of Environmental Biotechnology*

- Member International Association of Solid Waste

Solomatine, Dimitri*Professor of Hydroinformatics*

- Associate editor of Journal of Hydroinformatics
- Editor of the Hydrology and Earth System Sciences (HESS) Journal
- Co-editor of the Springer Book Series "Earth Systems Data & Models"

- Chairman of the European Geosciences Union (EGU) Subdivision on Hydroinformatics

- Convener of the Session on Hydroinformatics at EGU Assembly
- Member of the Scientific Advisory Committee of the Int. Conference on Hydroinformatics
- Member of the International Association of Hydrological Sciences
- Member of the International Association of Hydraulic Research
- Member of the European Geosciences Union

Steen, Peter van der*Associate Professor of Environmental Technology*

- Organizing committee of the 1st international seminar on Algal Technologies for Wastewater Treatment and Resource Recovery, April 9 at Delft, the Netherlands.
- Member of technical committee of PADUCO

Stigter, Tibor*Senior Lecturer in Hydrogeology and Groundwater Resources*

- Member of the IAH (International Association of Hydrogeologists) Commission on Groundwater and Climate Change
- Coordinator of the EU Erasmus+ Mundus Joint Master Programme on "Groundwater and Global Change - Impacts and Adaptation"

Terlaak, Juliëtte*Manager Human Resources*

- Member of the International Community Platform (ICP)
- Member of Coordinatiegroep Universitaire Rechtspositie (CUR)
- Member of Economische Agenda Delft (EAD) Expat Project Team

Trifunovic, Nemanja*Associate Professor of Water Supply Engineering*

- Member of International Water Association (IWA)
- Member of Serbian Association for Water Technology and Sanitary Engineering
- Scientific committee of 13th International CCWI Conference (2-4 Sep 2015)
- Chair of Programme Committee of 7th IWA-YWP conference for Eastern Europe (17-19 Sep 2015)

Uhlenbrook, Stefan*Vice Rector Academic and Student Affairs*

- Member of the editorial board Hydrology and Earth System Sciences (since 2004)
- Member of the editorial board Hydrological Sciences Journal (since 2006)
- Member of the editorial board Hydrologie und Wasserbewirtschaftung (Hydrology and Water Management, in German (since 2008)
- Alternate Governor World Water Council
- Member of center-commissioned review team of the IWMI (CGIAR) research programme
- Chair of the Boussinesq Center for Hydrology, annual meeting at Royal Netherlands Academy of Sciences, Amsterdam, The Netherlands
- Task force member of the European Innovation Platform on Water, Brussels, Belgium
- Panel member of review committee of Swedish Research Council-SIDA, Stockholm, Sweden

- Member of World Economic Forum's Global Agenda Council on Water 2014-2016

Veerbeek, William*Project Coordinator*

- Member of the Bangladesh Delta Plan 2100

Venneker, Raymond*Senior Lecturer in Hydrology*

- Member of the IAHS Working Group on Education in the Hydrological Sciences

Vink, Greet*Business Director*

- Stichting Institutes for Postgraduate International Education in the Netherlands
- Technologische Innovatie Campus Delft
- Delft Blue Technology
- Delft International Advisory Board
- Stuurgroep Valorisatieprogramma Deltatechnologie en Water (VPdelta)
- Stichting Onderwijs Civiel-Ingénieur voor Bedrijfsleven en Overheid
- International Community Platform (ICP)
- Klankbordgroep-Horizon 2020 Climate Action, Resource Efficiency and Raw Materials
- Klankbordgroep-Horizon 2020 Bioeconomy
- Klankbordgroep-Horizon 2020 People
- Acting member European Innovation Platform Water
- UNESCO focal point gender

Vojinovic, Zoran*Associate Professor of Urban Water Systems*

- Associate Editor - Journal of Hydroinformatics (from 2011)

Vossenbergh, Jack van de*Senior Lecturer in Microbiology*

- Member of Koninklijke Nederlandse Vereniging voor Microbiologie (KNVM, Royal Dutch Society for Microbiology)
- Member of American Society for Microbiology (ASM)

Wegen, Mick van der*Associate Professor of Estuarine Dynamics*

- Member AGU
- Member of the Centrum voor Kustonderzoek (NCK)

Wehn, Uta*Senior Lecturer / Researcher in Capacity Development and Innovation*

- Member of the Programme Committee IWA (International Water Association) Water and Development Congress & Exhibition 2015, Jordan
- Member of the Programme Committee ICT4S (ICT for Sustainability) Conference 2015, Denmark
- Member of the Programme Committee for the Global Cleaner Production and Sustainable Consumption Conference: Accelerating Transitions to Equitable and Sustainable Societies", and Global Exhibition "Sustainable Futures in Practice", 1-4 November 2015, Barcelona, Spain.
- Member of the IWA (International Water professionals Association) Sustainability Specialist Group WG on Workforce Sustainability
- UNESCO-IHE representative at the OECD Water Governance Initiative
- Member of the SENSE Research School (Socio-Economic and Natural Sciences of the Environment)
- Member of the Scientific Programme Committee for the COWM2016 Conference

(Citizen Observatories for Water Management), Venice, Italy, June 2016.

- Guest Editor of Special Volume on The Dynamics of Water Innovation for the Journal of Cleaner Production

Wenninger, Jochen

Senior Lecturer in Hydrology

- Member of the American Geophysical Union (AGU)
- Member of the International Association of Hydrological Sciences (IAHS)
- Member of the European Geosciences Union (EGU)

Werner, Micha

Associate Professor of Hydraulic Engineering

- Member of EGU & AGU
- Member of the WMO External Panel of Experts (OPACHE) on forecasting
- Editor of Hydrology and Earth System Sciences (HESS)
- Reviewed papers in several journals, including HESS, Water Resources Management, Journal of Flood Risk Management
- Member of the EA/DEFRA Thematic Advisory Group for strategic research programming in flood incident management (UK Government).

Zaag, Pieter van der

Professor of Integrated Water Resources Management

- Member of the Scientific Advisory Board of the African Studies Centre, Leiden
- Chairperson Netherlands National Committee IHP-HWRP
- Associate Editor of the international journal Water Policy
- Member research school SENSE (Socio-economic and natural sciences of the environment)
- Scientific Advisor of the International Foundation for Science (IFS)
- Member of the scientific advisory commission of the SOW-VU Centre for World Food Studies – Vrije Universiteit Amsterdam
- Member of the Editorial Board of the international journal Hydrology and Earth System Sciences
- Member of the Governing Board of WaterNet in Southern Africa

Zevenbergen, Chris

Professor of Flood Resilience of Urban Systems

- Member of the Advisory Board of ESG, Wageningen University
- Member of the Advisory Committee of Rotterdam Climate Initiative
- Editorial board of the journal of Flood Risk Management
- Editorial board of the Journal of Water Research and Hydraulic Engineering (JWRHE)
- Chaired the national steering committees of WODC, Ministry of Justice and Safety, on Randvoorwaarden verticale evacuatie bij overstromingen (Requirements for vertical evacuation in times of flooding) and on Weerbaarheid van Nederland (Resilience of the Netherlands)
- Scientific committee of Adaptation Futures 2015
- Scientific committee of FloodRisk 2016

- Initiator and co-chair of ICAADE2015, International Conference on Amphibious Architecture, Design and Engineering held in Bangkok (August 26-29)

Zwarteveen, Margreet

Professor of Water Governance

- Editorial Board Member of Water Alternatives;
- Associate Editor for WIRES-Water;
- Member of external panel for NWO-VIDI;
- Member of Global Advisory Panel, REACHwater, Improving Water Security for the Poor
- Member of Research Network Board of Geneva Water Hub
- UNESCO-IHE institutional member of Water Integrity International.
- Member of the International Conference Advisory Board of the International Conference on Sustainable Development, ULAB, to be held in Dhaka January 2016.

Annex 9

Projects

Tailor made training

Country	Contract title	Funding	Partners	Start	End
Albania	Water and Climate Sensitive Spatial Planning	Stichting Nuffic	National Territorial Planning Agency	13/Mar/15	31/Dec/15
Bangladesh	Training Program Government of Bangladesh on River Systems Management 2	Training Institute for Dredging		14/Jul/14	02/Mar/15
Benin	TMT Wetlands and Food security	Stichting Nuffic	Beninese Environmental Agency.	04/Mar/14	19/Jun/15
Bhutan	TMT/BTN/104 Mike 11	Stichting Nuffic		20/Feb/13	16/Apr/15
Canada	International WaTERS Research and Training Network	Social Sciences and Humanities Research Council of Canada		01/Jun/15	30/Dec/15
China	TMT Huaihe River Commission Personnel	Ministerie van Verkeer en Waterstaat	Deltares	01/Apr/12	03/Nov/15
	Beijing municipality 12 days groundwater short course	W&W Holding B.V. / WmE		13/Jan/13	12/Jun/15
	Tailor/Made/Training Huai River Commission Staff	Ministerie van Verkeer en Waterstaat		25/Jun/13	03/Nov/15
	Stdy Tour of Huaihe River Commission Experts on Dyke Analysis and Flood Forecasting	Rijkswaterstaat Corporate Dienst		23/Sep/15	31/Dec/15
	Short professional course on Water Management in EU/NL for the Water Resources Bureau of Nanjing Municipality	Local Government		12/Oct/15	30/Mar/16
	Study Tour Huaihe River Commission / 2nd Part 2016	Rijkswaterstaat Corporate Dienst		03/Dec/15	01/Feb/16
Colombia	Strengthening capacity on modelling tools for water resources management	Stichting Nuffic		28/Feb/14	26/May/15
	RC/2015/Integrated River Basin Management under Climate Change	Stichting Nuffic		16/Mar/15	12/Jan/16
	Tailor made training for Cirmag	Cirmag Research Institute		21/Oct/15	21/Dec/15
Costa Rica	Ecosystem Services in IWRM	Min. van Buitenlandse Zaken DGIS/DML	CapNet	05/Apr/11	26/Jun/15
Cuba	Seawater as an infinite water source to cope with water scarcity and sanitation: desalination, reuse, and direct use.	Stichting Nuffic	Instituto Nacional de Recursos Hidráulicos (INRH)	10/Mar/15	01/Apr/16
Ecuador	Capacity building cooperation in the field of Solid Waste Management and Sanitation	Ministry of Environment Ecuador		17/Mar/14	30/Dec/16
Egypt	Adaptation of the Libra Simulation game for the Egyptian Situation	Min. van Buitenlandse Zaken DGIS/DML		01/Sep/11	18/Feb/15
	Training for DRI on Water quality assessment and monitoring	The World Bank		01/Jul/15	29/Feb/16
India	Tailor Made Training Course on River Basin Planning	International Bank for Reconstruction and Development		11/Nov/13	31/Aug/15
	Training in planning for the management of solid waste	RIJKSWATERSTAAT		01/Jan/15	31/Dec/15
	Cooperation UNITY		Blokland Advisory Services	19/Jun/15	24/Jul/15
	Module Hydraulic Engineering Design,	Min. van Buitenlandse Zaken DGIS/DML		15/Aug/11	08/Jul/15

Country	Contract title	Funding	Partners	Start	End
Indonesia	Integrated Flood Management II Module Development	Min. van Buitenlandse Zaken DGIS/DML		01/Oct/11	17/Nov/15
	SC on Urban and Rural Polder Development Indonesia	Ministerie van Infrastructuur en Milieu	Municipality of DKI Jakarta, Palembang and Sriwijaya University	05/Oct/13	29/Feb/16
	RC/2014 Water Integrity	Stichting Nuffic	Universitas Gadjah Mada	01/Jan/14	06/Jul/15
	Managing flood for spate irrigation development related to food crops security	Stichting Nuffic	Research Centre for Water Resources	26/Feb/15	31/Dec/15
	Training in Coastal and Port structures and Port Planning	IPC Corporate University (Indonesia)		10/Jun/15	01/Jun/16
Italy	TMT for the University of Sannio	Universita degli Studi del Sannio		27/Nov/14	18/Jun/15
Iraq	TMT training software	UNDP		01/Mar/12	31/Dec/16
Jordan	Tailor Made Training on Using Sebal Evapotranspiration in Jordan	The World Bank		16/Jan/15	12/Jul/15
Kenya	Module transfer of the Limnology program to Egerton Univeristy	Min. van Buitenlandse Zaken DGIS/DML		15/Nov/08	01/Oct/15
	Training on Knowledge Management and Capacity Building for Water Resources Management	Kenya Water Institute		16/Feb/15	31/Aug/15
	Understanding, monitoring and controlling water sediment dynamics for river basin management	Stichting Nuffic		16/Mar/15	30/Dec/15
Korea, Republic of	Tailor Made Training in River Engineering for K/Water	Other funding agency not in list		18/Oct/10	16/Apr/15
Myanmar	Delta Planning training workshop 2013 for alumni Asian Deltas in Myanmar / Burma	Ministerie van Verkeer en Waterstaat	WU, Delta Alliance	20/Jun/13	25/Jun/15
	RC/2014 Recent Developments in IWRM	Stichting Nuffic	Irrigation Technology Centre	01/Jan/14	06/Jul/15
	Three Weeks SOBEK training	Rijkswaterstaat Corporate Dienst		06/May/15	30/Jul/15
Nepal	Building Flood Disaster Resilience of Cities	Stichting Nuffic	for Water Management and Climate Change, Tsinghua University, National Sun Yat-sen University and Kathmandu University	27/Jun/12	14/Apr/15
Netherlands	Development of the Solid Waste Management course	Min. van Buitenlandse Zaken DGIS/DML		01/Jun/13	10/Nov/15
	Development of Open Course Ware at UNESCO/IHE	Min. van Buitenlandse Zaken DGIS/DML		08/May/14	31/Dec/16
	BuZa Online Course Water	Min. van Buitenlandse Zaken DGIS/DML		03/Nov/14	08/Oct/15
	Advanced Groundwater Monitoring by IHP, IGRAC and UNESCO IHE	UNESCO IHP, Division of Water Sciences	IGRAC	01/Feb/15	11/Jun/15
Palestine, State of	Study Tour on Wastewater Reuse an Stormwater Harvesting in the Barcelona Area	Joint Venture Almadina / ENFRA consultants		21/Apr/12	01/Jun/15
Saint Kitts and Nevis	TMT on Groundwater Data Collection and Interpretation for the Caribbean	UNESCO IHP, Division of Water Sciences		03/Sep/15	31/Oct/15
South Africa	Research and Action : the politics and practices of participation in the water sector	Stichting Nuffic	University of the Western Cape (UWC)	16/Mar/15	30/Dec/15
Sudan	RC/2013/Sudan	Stichting Nuffic	HRS Sudan	26/Mar/13	16/Apr/15
	Water Harvesting in arid and semi/arid regions of Sub/Saharan Africa	Stichting Nuffic	HRC Sudan	16/Mar/15	30/Dec/15
Suriname	Drinking Water Quality and Water Safety Plans: meeting the WHO guidelines	Stichting Nuffic		28/Nov/15	11/Dec/15
Thailand	Capacity Strengthening Integrated Water Management Thailand's land use planners	Stichting Nuffic	CKI	12/Jun/15	13/Oct/15

Country	Contract title	Funding	Partners	Start	End
Uganda	Refresher Course Kampala	Stichting Nuffic	Makerere University	01/Mar/13	16/Apr/15
	Modelling practice and tools: their roles in water resources management in the 21st Century	Stichting Nuffic	NWSC	26/Feb/15	31/Dec/15
Uzbekistan	Uzbekistan UNESCO Training Seminar	UNESCO IHP, Division of Water Sciences		04/Jul/15	10/Jul/15
	IGRAC Tashkent	UNESCO IHP, Division of Water Sciences	IGRAC	19/Oct/15	23/Oct/15
Various Countries	Environmental Flows Module Development	Min. van Buitenlandse Zaken DGIS/DML	Universidad San Francisco de Quito, TNC, IUCN, Deltares	01/Feb/09	01/Oct/15
	Erasmus Mundus Masters Course in Ecohydrology	European Commission	Univ. Lodz (poland), Univ. Kiel 9germany), Univ. La Plata (argentina0	01/Sep/10	31/Aug/17
	ADB Coral Reefs	Asian Development Bank		01/Nov/12	26/Jun/15
	ONLINE COURSE on Natural Treatment Systems	European Commission		01/Jun/14	31/Dec/15
	Erasmus+ Programme / JMD Groundwater and Global Change / Impacts and Adaptation	European Commission	Instituto Superior Tecnico Portugal, Technische Universitaet Dresden	15/Oct/14	14/Oct/19
Zimbabwe	REF/2012/Zimbabwe	Stichting Nuffic	university of zimbabwe	16/Apr/12	14/Apr/15
	Strengthening Irrigation Development for Sustainable Food, Nutrition and Livelihoods Security	Stichting Nuffic		24/Aug/15	22/Feb/16

Research & development

Country	Contract title	Funding	Partners	Start	End
Afghanistan	Codifying water rights in contested basins of Afghanistan	Nederlandse Organisatie voor Wetenschappenlijjk Onderzoek (NWO)	MetaMeta	15/Sep/15	15/Mar/16
Algeria	Support to Water Sector Algeria	Rijksdienst voor Ondernemend Nederland (RVO)	NABC (Lead), TUD, Leaf, WU, Deltares	30/Jan/12	18/Jun/15
Argentina	Hydrogeochemistry characterization of the presence of arsenic of the Phreatic aquifer of Mataderos area-Buenos Aires City	Min. van Buitenlandse Zaken DGIS/DML		11/Feb/13	29/Oct/15
Australia	Climate Change Adaptation Research Grants Program	National Government		01/May/11	31/Dec/15
	Assessing and enhancing the resilience of Australian beaches to sea level rise	Australian Research Council	Univ of Queensland (lead), Univ of New South Wales	01/Jan/13	31/Dec/17
	Storm Surge Forecast Model	Australian Research Council	Universiy Queensland (lead), University of New South Wales	01/Apr/13	31/Dec/17
	Socio Technical Flood Resilience in Water Sensitive Cities	National Government		01/Jul/13	01/Jul/17
	Strengthening Educational Program to foster future water sensitive cities leaders	National Government		01/Oct/13	09/Jul/17
Austria	Coupled stress-seepage numerical design of concrete lined pressure tunnels	Other funding agency not in list		01/Oct/10	27/Nov/15

Country	Contract title	Funding	Partners	Start	End
Azerbaijan	Water Treatment Plant Operation and Maintenance	The World Bank		20/Jul/11	09/Apr/15
Bangladesh	Morphological Modelling of Mehna Estuary	Min. van Buitenlandse Zaken DGIS/DML		01/Apr/11	12/Nov/15
	Capacity Development of Water Sector Related Climate Change Induced Disaster Management and Adaptation	Stichting Nuffic		01/Jul/11	30/Sep/15
	CD of Higher Education of Integrated Water Resources Management at CUET	Stichting Nuffic	WU, AIT	15/Aug/11	30/Apr/16
	DUPC NICHE BGD CUET	Min. van Buitenlandse Zaken DGIS/DML		15/Aug/11	31/Dec/15
	Communities & institutions for flood resilience in Bangladeshi & Dutch Deltas	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)	IWFM, BUET, UCLA, NEAA,	01/Mar/12	15/Mar/17
	Scenario Development in Integrated Water Resources Management: coping with future challenges in Bangladesh	Stichting Nuffic	WU, Deltares	01/Mar/13	28/Feb/17
	Managing Saltwater Intrusion impacts in Bangladesh, An Integrated approach based on salinity monitoring, modeling and stakeholder participation to improve water safety plans	IRC International Water and Sanitation Centre	CEGIS	01/May/13	12/Jun/15
	Integrating the dynamics of social and biophysical processes to support delta management	Min. van Buitenlandse Zaken DGIS/DML	FHRCB, WUR, BUET	01/Sep/13	31/Dec/15
	Sanitation Technical for Enterprises	IRC International Water and Sanitation Centre		01/Sep/13	18/Jun/15
	Understanding Flows of Water and People in Bangladesh and the Netherlands	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)	WUR, Deltares, BCAS, FHRC	06/May/14	31/Dec/18
	Chittagong Water Supply Improvement	National Water and Sewerage Corporation		01/Oct/15	31/Dec/17
Benin	Capacity development and the establishment of a water institute in Benin	Stichting Nuffic	Deltares, TUD	07/Jan/13	31/Dec/16
Brazil	Capacity Building HidroEx phase 3	National Government		02/Oct/12	31/Oct/15
	Brazilian Science without Borders Fellowship Programme	HIDROEX	HidroEx, CNPq	20/Mar/14	30/Sep/15
	Development of bioprocesses for odour and VOC control from sewage treatment plant facilities undertaken by SANEPAR	SANEPAR		14/May/14	14/May/16
China	Research fund for sustainability of water resources and environment in China, P.R.	Other funding agency not in list		08/Jun/07	31/Dec/16
	Sediment Alluvial Process in Wave-current Boundary Layer	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)		01/Dec/11	01/Dec/15
	Yangtze River Water Quality Early Warning Monitoring	Rijkswaterstaat Corporate Dienst		22/Sep/13	19/Jun/15
	A pilot conjunctive water supply system for Deyong City	Rijksdienst voor Ondernemend Nederland (RVO)		01/Feb/14	31/Mar/16
	Ensemble flow forecasting research with visiting PhD student from HoHai University	Rijkswaterstaat Corporate Dienst	Deltares	03/Jul/14	30/Jun/16
	PhD support for DSS on lake Taihu	Rijkswaterstaat Corporate Dienst		18/Jul/14	30/Sep/17
	Support on the development of national strategy for the control of heavy metal emissions and its demonstration in key polluted areas	European Commission	CAEP	01/Nov/14	01/Nov/16

Country	Contract title	Funding	Partners	Start	End
China	Integration of the ensemble weather forecasting systems and hydrological models for uncertainty-based flow forecasts for Huaihe (Xiangyi Kong)	Rijkswaterstaat Corporate Dienst		15/Oct/15	30/Apr/16
	Surrogate modelling of Lake Taihu (Runze Shen)	Rijkswaterstaat Corporate Dienst		15/Oct/15	30/Apr/16
	Web-based decision support systems for Lake Taihu in China (YiChen)	Rijkswaterstaat Corporate Dienst		15/Oct/15	30/Apr/16
	Uncertainty and sensitivity analysis framework for flood forecasting: Case studies of the Wangjiaba catchment in the Huai River Basin (China) (Anqi WANG)	Rijkswaterstaat Corporate Dienst		15/Oct/15	30/Apr/16
	Optimization of the filling of the storage areas along Huahe river for flood protection (Zhe Sun)	Rijkswaterstaat Corporate Dienst		15/Oct/15	30/Apr/16
Colombia	Proposal for the development/improvement of the partnership UNESCO-IHE UNIVALLE	Stichting IHE		05/Jan/09	01/Oct/15
	Establishing a joint programme in hydroinformatics at univalle and IHE	Min. van Buitenlandse Zaken DGIS/DML		01/Jan/10	16/Oct/15
	Piloting Colombia's New IWRM Policy in Key Catchments (ColCuenecas)	Min. van Buitenlandse Zaken DGIS/DML	Universidad Nacional de Colombia, Universidad del Valle, Colombian Ministry of the Environment and ASOCARS	15/May/11	30/Jun/15
Côte d'Ivoire	Implementation of the Feasibility Study of the Comoe Riverin Grand Bassam	National Government	Royal Haskoning(lead), Deltares	13/Mar/14	31/May/16
Cuba	Strengthening the Cuban Food Production and Aquaculture Sector.	European Commission- EuropeAid	ACPA, IIIA, CPAM, Univ. Zagreb	01/Mar/12	31/Dec/15
	Adapting to CC and Mitigating Water Scarcity by Innovative UWM in Cuba	European Commission- EuropeAid	CUJAE, INRH, IIIA	01/Sep/13	31/Dec/16
Egypt	Climate Change and Development Impacts on Nile Aquifer Salinization - Comparative Modeling Study	Ministerie van Verkeer en Waterstaat		01/Oct/13	31/Mar/16
	Training Water Quality Early Warning System MWR	Rijksdienst voor Ondernemend Nederland (RVO)	Grontmij (Lead)	27/Jul/15	31/Dec/15
Ethiopia	Capacity building in Integrated River Basin Management for HEIs to support RBOs	Stichting Nuffic	WU, MetaMeta, IWMI, VU	01/Jan/10	03/Dec/15
	Capacity Development of HEIs in Small-scale Irrigation (and Micro Irrigation) at Arba Minch university	Stichting Nuffic		11/Sep/13	31/Dec/17
	Addis Ababa Water and Sewerage Authority Staff Training and Capacity Building	Addis Ababa Water and Sewerage Authority (AAWSA)	NWSC, VEI	01/Sep/14	03/Aug/16
Georgia	Integrated Natural Resources Management in Watersheds of Georgia	United States Agency for International Development (USAID)	Florida International University, Ministry of Environment, United Water Company of Georgia	01/Dec/10	19/Jun/15
Ghana	Joint Masters Programme In Water Supply And Environmental Sanitation Knust-IHE	Min. van Buitenlandse Zaken DGIS/DML	DCE, Kwame Nkrumah University	01/Oct/09	09/Nov/15
Fiji	Changing Waves and Coasts in the Pacific	European Commission- EuropeAid		01/May/14	31/May/16
Indonesia	Roleplay training course for NPT Indonesia project	Stichting Nuffic		21/Dec/10	20/May/15
	Tailor Made Course on Integrated Lowland Development in Indonesia	Rijkswaterstaat Corporate Dienst	Research Centre for Water Resources, Bandung, Indonesia	20/Feb/12	11/Jun/15
	NICHE IDN 142 Capacity Development PUSDIKLAT IWRM Education and Training (CDIET) Project	Stichting Nuffic	PT IHE, Gender and Water Alliance, CKNet- INA	01/Jul/12	30/Jun/16
	Integrated Urban Flood Management	Ministerie van Verkeer en Waterstaat		01/Dec/12	16/Feb/16

Country	Contract title	Funding	Partners	Start	End
Indonesia	Short Course on Integrated Lowland Urban Drainage Development in Indonesia	Ministerie van Verkeer en Waterstaat		05/Jan/13	18/Jun/15
	ADB MARE Asia Indonesia: Towards Greener Asian Cities	Asian Development Bank		30/May/13	26/Jun/15
	Capacity Building for High Standard Education and Training Programmes for the Water Supply Sector in Indonesia	Stichting Nuffic	Vitens Evides International, ITB, ITS	01/Jun/13	31/May/17
	Integrated Management of Ciliwung River System in Jakarta Region	Rijkswaterstaat Corporate Dienst		29/Sep/14	31/Dec/15
	Translating Groundwater Policy to Practice in Jakarta, Indonesia	Rijkswaterstaat Corporate Dienst		01/Nov/15	31/Dec/16
India	IWRM Proficiency Certification Program Phase 2 in India	Asian Development Bank		16/Nov/15	31/Dec/16
Kenya	Strengthening polytechnics to enhance delivery of quality edu programs in IWRM	Stichting Nuffic		01/Jan/12	31/Dec/15
	Capacity Buildin in IWRM at Graduate Level in Cooperation with KEWI	Stichting Nuffic		01/Jul/12	30/Jun/16
	Mau Mara Serengeti (MaMaSe) Sustainable Water Initiative	Royal Netherlands Embassy	WWF Kenya, Kenya Water Resource Management Authority, Egerton University, Masai Mara University, Alterra, ITC, SNV, GIZ, Deltares	01/Jan/14	31/Dec/17
	TMT Groundwater Resources Assessment	Stichting Nuffic	Rural Focus Ltd. (local partner)	04/Jun/14	31/Aug/15
	Performance Enhancement of Water Utilities in Kenya	Rijksdienst voor Ondernemend Nederland (RVO)	Aquanet (lead), VEI, SNV, Water Services Regulatory Board (WASREB), Water Services Trust Fund (WSTF)	01/Jan/15	31/Dec/18
Mozambique	University of Zambeze Capacity Building Project	Stichting Nuffic	Rijksuniversiteit Groningen	01/Jan/11	14/Apr/15
	Set up of FIPAG Academy for Professional Development	Stichting Nuffic	TU Delft, IRC, Hidroex, Rand Water, EMU	01/Oct/12	01/Oct/16
	Drinking Water in Greater Maputo and in secondary towns, Mozambique	Ministerie van Verkeer en Waterstaat	Eduardo Mondlane University	05/May/13	27/Nov/15
	Towards a sustainable academic African sanitation network	Stichting Nuffic	WASTE, SEI, LSHTM	01/Sep/13	28/Feb/15
	PvW III Mobile Water Measure Mozambique	Rijksdienst voor Ondernemend Nederland (RVO)	Mobile Canal Control (lead), Hydrologic, Wetterskip Fryslan	01/Mar/14	30/Nov/15
	Monitoring saltwater intrusion to safeguard drinking water supply in Maputo, Mozambique	Rijkswaterstaat Corporate Dienst		10/Mar/14	23/Feb/16
	Sustainable freshwater supply in urbanizing Maputo	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)		01/May/14	31/Dec/18
	Water Supply and Sanitation in Secondary Towns in Mozambique	Ministerie van Infrastructuur en Milieu		30/Jun/14	31/Dec/15

Country	Contract title	Funding	Partners	Start	End
Myanmar	Capacity development and professional development in the Irrawaddy river basin	CGIAR	Directorate of Water Resources and Improvement of River Systems, Ministry of Transport, Ayeyarwady River Basin Research Organisation, Mandalay Technology Ltd, Network of Asian River Basin Organisations NARBO, International Union for the Conservation of Na	01/Jan/15	31/Dec/17
	Myanmar Young Professionals Programme	Rijksdienst voor Ondernemend Nederland (RVO)	TUD lead	29/Jun/15	31/Dec/15
Netherlands	Morphological Acceleration factor Study	Stichting Deltares		08/Oct/09	01/Feb/18
	A Novel Bioprocess Coupling Wastewater Treatment	European Commission - Research Executive Agency		03/Jan/10	16/Jun/15
	Interne & externe leerprocessen Ruimte voor de Rivier	Other funding agency not in list		01/Oct/10	31/Dec/15
	Integration of operational management to be able to contribute to the solution of the water issue part I	Hoogheemraadschap Rijnland		01/May/11	31/Dec/15
	Building UNESCO-IHE Spatial Data Infrastructure	Min. van Buitenlandse Zaken DGIS/DML		01/Mar/12	29/Oct/15
	Sulfate Reduction Dependant Anaerobic Methane Oxidation	European Commission - Research Executive Agency		31/May/13	4/Dec/15
	Secretariat VIA Water	Min. van Buitenlandse Zaken DGIS/DML		01/Jul/13	31/Dec/17
	Co-designing Coasts using natural Channel-shoal dynamics	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)	Twente University, TU Delft, Deltares	12/Aug/13	11/Aug/17
	Role of biofilm-matrix components in the extracellular reduction and recovery of chalcogens	European Commission - Research Executive Agency		01/Sep/13	31/Dec/15
	New generation of pre-treatments to eliminate organic and biological fouling in SWRO systems	WETSUS		01/Sep/13	31/Aug/17
	AXA Endowed Visiting Chair program in the field of Climate Change (CC) impacts and Coastal Risk	AXA Group		01/Jan/14	31/Dec/39
	WU PhD Supervision by Margreet Zwarteveen	Wageningen University		07/Mar/14	31/Dec/16
	Evaluation of the oxygen uptake rate (OUR) of an MBR-speece cone system operated at highly concentrated mixed liquor suspended solids (MLSS)	OVIVO		11/Jul/14	30/Apr/15
	Adding sediment transport and morphology in Delft3D Flexible Mesh	Stichting Deltares		01/Oct/14	31/Dec/16
	Water-Related Disaster Risk: towards a new research and capacity building program at UNESCO-IHE	Rijkswaterstaat Corporate Dienst IHE		10/Dec/14	31/May/15
	Programmatic Cooperation on Integrated Water Management in Support of Dutch International Water Agenda	Rijkswaterstaat Corporate Dienst		01/Jan/15	31/Dec/18
	International Conference on Amphibious Architecture	Dura Vermeer Groep NV		01/Jan/15	31/Dec/15
A Holistic, Generic Modelling Approach To Simulate Catchment-Estuary-Coastal System Behaviour At Macro Time Scales	Stichting Deltares		29/Jan/15	31/Dec/18	
Experienced Water Postdoc Fellowship Programme	European Commission - Research Executive Agency		01/Apr/15	31/Dec/18	

Country	Contract title	Funding	Partners	Start	End
Netherlands	City to City Learning for Disaster Resilience	Rijkswaterstaat Corporate Dienst		29/Apr/15	30/Jun/16
Pakistan	U.S.-Pakistan Center for Advanced Studies in Water.	United States Agency for International Development (USAID)		01/Jul/15	30/Jun/16
Palestine, State of	Dutch-Palestinian Academic Cooperation Program in Water	Netherlands Representative Office in Ramallah	Palestinian and Dutch Academic Institutions including Birzeit and Maastricht School of Management	01/May/14	31/Dec/15
Russian Federation	Translation of BWWT book into Russian language	Min. van Buitenlandse Zaken DGIS/DML		01/May/12	03/Mar/15
Rwanda	Rwanda Integrated Water Security Program (RIWSP)	United States Agency for International Development (USAID)	Florida International University, Winrock International, Care, World Vision and Water Aid	01/Jun/11	30/Jun/16
	Consolidation & Upgrading of Education & Research within Water Resources at NUR	Stichting Nuffic	Univ of Zimbabwe, Dept of Civil Engineering	01/Jul/11	31/Aug/15
	Consolidation & upgrading of education & research within Water Resources at NUR	Min. van Buitenlandse Zaken DGIS/DML	Univ of Zimbabwe, Dept of Civil Engineering	01/Jan/12	31/Aug/15
	PPP for increased access to Sustainable Water Services in Rwanda	Rijksdienst voor Ondernemend Nederland (RVO)	EWSA, FEPEAR, Aquanet	01/Apr/13	31/Mar/17
South Africa	Enhancing Institutional Capacity in Water and Wastewater Treatment	Stichting Nuffic		01/Jan/10	30/Apr/17
	Capacity Building for Integrated Water Resources Management in South Africa	Stichting Nuffic		15/Sep/10	15/Nov/15
	NICHE South Sudan	Stichting Nuffic	CINOP (lead), Alterra/ WUR	01/Jan/13	31/Dec/16
Sri Lanka	ADB TOP-UP Coastal Risk Sri Lanka - Pilot (CRISP)	Asian Development Bank		28/Sep/15	31/Aug/18
Sri Lanka	ADB TOP-UP Sri Lanka North coast sediment Transport (SLaNT) - Phase 1	Asian Development Bank		23/Nov/15	18/Aug/16
Sudan	Atbara dams Sedimentation and Operation Study	Min. of Water Resources and Electricity, Sudan	Deltares (lead)	09/Jan/14	09/Jun/14
	Accounting for Nile waters: connecting investments in large scale irrigation to gendered reallocations of water and labor in the Eastern Nile basin	CGIAR	IWMI, Forum For Social Studies (Ethiopia), Univ of Khartoum, Research Institute for Sustainable Environment (Cairo), HRC (Sudan), ENTRO, NBCBN, Min of Agriculture (Ethiopia)	01/Jan/15	31/Dec/16
Tanzania, United republic of	Rufiji Basin Environmental Flow Assessment	United States Agency for International Development (USAID)		01/May/14	16/Mar/16
Thailand	Subsurface Water Storage Pilot	Asian Development Bank		20/Jul/15	01/Aug/16
Uganda	Grey water management in slums in sub-saharan Africa	Min. van Buitenlandse Zaken DGIS/DML		15/Jul/13	30/Jun/15
	Potentials for Peace building: Examining linkages between WASH services and conflict in UNICEF Uganda programmes	United Nations Children's Fund		04/Dec/14	30/May/15
	Alternative approaches and tools for improved water supply sanitation for towns in Northern Uganda	Rijksdienst voor Ondernemend Nederland (RVO)	VEI and NWSC	02/Feb/15	31/Dec/18
United States	Modeling hydrodynamics, sediments and ecology in San Francisco Bay	USGS Pacific Science Drive		1/Oct/11	30/Jun/15

Country	Contract title	Funding	Partners	Start	End
United States	SWAN Sustainable Water Action, Building research links between EU and US	European Commission - Research Executive Agency	Centre National de Recherche Scientifique, Univ of Arizona, Univ of the West of England, Universidad de Sevilla, Bulgarian Acad of Sciences BAS-NIGG,	01/Mar/12	29/Feb/16
	Electrosynthesis of biofuels from gaseous carbon dioxide catalyzed by Microbes	European Commission - Research Executive Agency	University of Massachusetts, Amherst, USA	01/Jun/12	31/Dec/15
	Modeling mud dynamics in South San Francisco Bay	USGS Pasific Science Drive		01/Oct/13	31/Dec/15
	San Francisco geomorphodynamics	USGS Pasific Science Drive		25/Jun/15	09/Dec/17
Uruguay	Collaborative Agreement ANII 2 - UNESCO-IHE 2	National Government		017/Jun/14	30/Dec/20
Various Countries	Formal water rights in informal economies in the Limpopo and Volta	CGIAR Challenge Program on Water and Food (CPWF)	IWMI	01/Feb/08	21/Apr/15
	Upscaling Small-Scale Land and Water System Innovations in Dry Agro-Ecosystems	Min. van Buitenlandse Zaken DGIS/DML	USDM, UKZN, IWMI, TUD, SEI, SU	01/Aug/08	31/Dec/15
	Low-Cost Drinking Water Treatment in Developing Countries	Min. van Buitenlandse Zaken DGIS/DML	Kwame Nkrumah University of Science and Technology, Makerere University	01/Nov/08	26/Jun/15
	Risk-Based Operational Water Management for the Incomati River Basin	Min. van Buitenlandse Zaken DGIS/DML	Mondlane University, KOBWA	01/Jan/09	17/Nov/15
	IWRM in the Aral Sea Basin	Min. van Buitenlandse Zaken DGIS/DML		01/Jan/09	22/Oct/15
	Gridded Management System on Environmental Sustainability and Vulnerability	European Commission - Research Executive Agency	WMO, C3I, SWAT, EAWAG, JRC, IISD, UN-IIST, CERN, CRS4, Univ. of Geneva	01/Apr/09	16/Jan/15
	Intelligent Monitoring, control and Security of Critical Infrastructure Systems	Other funding agency not in list		01/Jul/09	16/Feb/16
	Impacts of Oil Prices on Economic Sustainability of Water and Wastewater	Min. van Buitenlandse Zaken DGIS/DML	KNUST	01/Aug/09	09/Nov/15
	Integrated Low Cost Anaerobic/Aerobic Biological System for Grey Water Treatment	Min. van Buitenlandse Zaken DGIS/DML	Sana'a University; Water and Environment Centre (WEC),	01/Aug/09	09/Nov/15
	Allocation of Groundwater to Groundwater Dependent Ecosystems	Min. van Buitenlandse Zaken DGIS/DML	Makarere University	01/Aug/09	25/Jun/15
	Environmental flow regime in rivers as a tool for IWRM and RBM	Min. van Buitenlandse Zaken DGIS/DML	Birzeit University	01/Aug/09	09/Nov/15
	Hydropower-to-Environment Water Transfers in the Zambezi Basin	Min. van Buitenlandse Zaken DGIS/DML	Waternet, Swiss Federal Inst of Tech, Eduardo Mondlane Univ, WWF	14/Sep/09	09/Jul/15
	Adaptation to Global Change in Agricultural Practices (AGIoCAP)	Min. van Buitenlandse Zaken DGIS/DML	Asian Institute of Technology, Thailand; Ministry of Irrigation Nepal, Nepal	21/Sep/09	31/Dec/15
	Climate Change Impacts on Seasonally and Intermittently Open Tidal Inlets	Min. van Buitenlandse Zaken DGIS/DML	AIT, Univ of Moratuwa, Univ of Peradeniya, CSRO, FECT, Deltares	01/Oct/09	31/Dec/15
Spate Irrigation for Climate Proofing, Rural Growth And Poverty Alleviation	Min. van Buitenlandse Zaken DGIS/DML	MetaMeta, Haramaya University, Sana'a University, HRS Min Irr and WR Sudan	01/Jan/11	31/Jan/15	
Merging Hydrologic Models and EO Data for Reliable Information on Water	European Commission - Research Executive Agency	AUT, Hidromod, IST, CPTEC, JRC, Skysoft, UEM	01/Jan/11	16/Feb/16	

Country	Contract title	Funding	Partners	Start	End
Various Countries	Stimulating Local Innovation On Sanitation Urban Poor In SS Africa & SE Asia	Bill & Melinda Gates Foundation		11/Jun/11	31/May/15
	PhD supervision TUD	TU Delft		01/Nov/11	31/Oct/16
	West Africa Water Supply, Sanitation and Hygiene Initiative	United States Agency for International Development (USAID)	FIU (Lead)	01/Nov/11	31/Aug/15
	ADB - UNESCO-IHE Knowledge Partnership Agreement	Asian Development Bank		01/Dec/11	26/Jun/15
	Advanced Biological Waste-to-Energy Technologies	European Commission - Research Executive Agency	ICT Prague, Univ of South Florida (USF)	01/Jan/12	31/Dec/15
	2009 Mining Pollution Monitoring and Control	European Commission - Research Executive Agency	University Minas Gerais, of Belo Horizonte, Unimontes, Lab of Env. Geochemistry	23/Jan/12	04/Dec/15
	ICT Solutions for Efficient Water Resources Management	European Commission - Research Executive Agency	SIEMENS, TOSHIBA, CMR, ITALDATA, METROPOLITANA MILANESE, AQUATIM, ICCS, K&S	01/Oct/12	30/Sep/16
	Community Based Earth Observatory of Water	European Commission - Research Executive Agency	Sensor scope, disdrometrics, advanticsys, AAWA, EPFL, Hydroresearch Delft, Middlesex Univ. Sheffield Civil Protection	01/Oct/12	01/Oct/16
	DUPC Irrigation and Wetlands	Min. van Buitenlandse Zaken DGIS/DML		05/Feb/13	30/Jun/15
	DANube macroregion: Capacity building and Excellence in River Systems	European Commission - Research Executive Agency		01/Jun/13	31/May/15
	GWOPA/UN-Habitat vand UNESCO-IHE in support of Water Operator Partnerships	Min. van Buitenlandse Zaken DGIS/DML		01/Jul/13	30/Jun/18
	Risk based operational management for the Incomati River Basin Groundwater assessment	Min. van Buitenlandse Zaken DGIS/DML	KOBWA, UKZN, EMU	01/Jul/13	12/Nov/15
	International Water Quality Guidelines for Ecosystems	United Nations University (UNU)		01/Aug/13	30/Dec/15
	NWO UDW Strengthening Strategic Delta Planning Processes in Bangladesh, NL and beyond	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)	TUD, WUR, BUET, CEGIS, VNU-WACC, PBL, Deltares, IUCN	15/Aug/13	31/Jul/18
	Transboundary data and rainfall prediction	Min. van Buitenlandse Zaken DGIS/DML	IWMI, CEGIS, IWFM, IITG, ECMWF	01/Sep/13	01/Oct/15
	Climate Adaptation Mainstreaming through Innovation	EC-Interreg		02/Sep/13	30/Jun/15
	Resilience-Increasing Strategies for Coasts	European Commission - Research Executive Agency		01/Nov/13	30/Apr/17
	Preparation JPI Water Helsinki project	Ministerie van Infrastructuur en Milieu	ICRA, UFZ, University of Ferrara	05/Dec/13	30/Jun/15
	Investing in Land and Water: turning climate finance mechanisms into tools for cooperation	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)	Hoarec, WUR, Both Ends, Aksi, Coffee Forest Forum	01/Jan/14	31/Dec/16
	Preparing for Extreme and Rare Events in Coastal Regions	European Commission - Research Executive Agency	around 15 partners including SINTEF, TUHH, Max Planck Inst, DHI etc	01/Jan/14	31/Dec/17
Global Earth Observation for integrated water resource assessment	European Commission - Research Executive Agency	Deltares (Lead)	01/Jan/14	31/Dec/17	

Country	Contract title	Funding	Partners	Start	End
Various Countries	Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities	European Commission - Research Executive Agency		01/Jan/14	30/Jun/17
	ICT for Water Resource Efficiency	European Commission - Research Executive Agency		01/Feb/14	01/Feb/17
	Analysis of water accounts for major river basins located in DGIS water countries	Min. van Buitenlandse Zaken DGIS/DML	IWMI, FAO	28/Feb/14	30/Nov/15
	capacity development for sustainable use of natural resources in Lake Victoria Basin	MacArthur Foundation	BirdLife International, Ramsar Centre for East Africa (RAMCEA)	17/Mar/14	
	Delta Alliance Comparative Assessment 2.0	Programmabureau Kennis voor Klimaat	Deltares (lead), WUR-Altterra, TUD	01/Apr/14	05/Nov/15
	Development of a Global Research and Innovation Agenda	Min. van Buitenlandse Zaken DGIS/DML		15/May/14	8/Oct/15
	Crablock - Flume Investigation	AM Marine Works		12/Aug/14	30/Nov/16
	Africa to Asia and Back Again: Testing Adaptation in Flood-Based Farming Systems (Phase 2)	IFAD	WLE, ICRAF, MetaMeta	20/Aug/14	27/Nov/15
	Delta Alliance 2.0 enhancing the knowledge network for deltas in the world	Min. van Buitenlandse Zaken DGIS/DML	Deltares (Lead), TUD, WUR	01/Sep/14	31/Jan/16
	Ecohydrological multi-scale thermal monitoring and validation of water and energy fluxes in freshwater wetlands	Belgian Federal Public Planning Service	Vrije Universiteit Brussel (Lead), Meteo Be, Lippmann	30/Sep/14	30/Nov/18
	Training Water Policy Matra-Zuid	Rijksdienst voor Ondernemend Nederland (RVO)	Clingendael (lead), WaterFocus	01/Jan/15	31/Dec/18
	Advanced Biological Waste-to-Energy Technologies	European Commission - Research Executive Agency	Cassino (lead), Tampere, Paris Est	01/Jan/15	01/Jan/19
	Inclusive development paths for healthy Red River landscapes based on ecosystem services	CGIAR	TU Delft (lead), NAWAPI, IWRP, HUNRE, WRU, GreenID, VinWater, IWMI	01/Jan/15	31/Dec/16
	Harnessing floods to enhance livelihoods and ecosystem services	CGIAR	Spate irrigation network, Meta Meta, Mekelle University (Ethiopia), Hydraulics Research Center (Sudan)	01/Feb/15	31/Dec/16
	DEVELOPING, TESTING AND VALIDATION OF THE eSOS EMERGENCY SANITATION BUSINESS MODEL	Asian Development Bank		16/Mar/15	30/Oct/15
	Experimenting with practical transition groundwater management strategies for the urban poor in Sub Saharan Africa	NERC Science of the Environment		01/May/15	30/Apr/19
	Supporting SIDS to strengthen capacity in the water sector to cope with the effects of climate change	Min. van Buitenlandse Zaken DGIS/DML		01/Jul/15	30/Jun/18
	Water Diplomacy under DUPC 1	Min. van Buitenlandse Zaken DGIS/DML		23/Jul/15	31/Dec/15
	Capacity Building on Crop Water Productivity; Concepts, Measurements and Reporting	Asian Development Bank		01/Sep/15	01/Sep/16
	Hydroinformatics modelling, development and high performance	CDM International Inc.		07/Dec/15	31/Dec/16

Country	Contract title	Funding	Partners	Start	End
Various Countries	Dynamic Water Value Map - A holistic tool for monitoring and assessing the economic, social and ecological status of African landscapes	European Space Agency (ESA)	Jomo Kenyatta University of Agriculture and Technology (JKUAT), Dept Civil, Construction and Environmental Engineering (CCEE) and Water Research and Resource Centre (WARREC), Kenya	15/Dec/15	31/May/17
	Nile Ecosystems Valuation for wise-Use (Nile-Eco-VWU)	CGIAR	NBCBN (Lead)	11/Jan/12	31/Dec/15
Viet Nam	Improvement of Higher Education in Water Management in view of Climate Change in Vietnam	Stichting Nuffic		01/Jan/12	31/Dec/15
	Institutional capacity building for the Centre of Water Management and Climate Change (CWMCC)	Stichting Nuffic		01/Jan/13	22/Oct/15
	Assessment of Climate Change Driven Variations in the Wave Climate along the Coast of Vietnam	Ministerie van Verkeer en Waterstaat	CSIRO, Hanoi University	01/Jul/13	31/Dec/15
	Climate Change and Drinking Water Supply in the Mekong Delta, Vietnam	Rijksdienst voor Ondernemend Nederland (RVO)		29/Sep/14	31/Dec/15
	Assessment of Climate Change driven variations on future longshore sediment transport rates along the coast of VietNam	Rijkswaterstaat Corporate Dienst		29/Sep/14	31/Dec/15
	Assessment of Climate Change driven variations in storm wave conditions in VietNam	Rijkswaterstaat Corporate Dienst		01/Mar/15	31/Dec/16
	Managing Adaptive REsponses to changing flood risk in Asia (MARE)	Rijkswaterstaat Corporate Dienst		01/May/15	31/May/17
	Mekong Modeling Phase 2	Office of Naval Research		01/Sep/15	30/Apr/19
Yemen	Strengthening Research Capacity in Yemen's water sector	Stichting Nuffic	WaterWatch, CSIRO, Cairo University, Wageningen University	01/Jan/11	27/Nov/15
Zimbabwe	Management and Scientific Backstopping support Waternet 2013	WaterNet Trust		01/Jan/13	31/Dec/16
	Support to the WaterNet Secretariat in Harare, Zimbabwe	Min. van Buitenlandse Zaken DGIS/DML		15/Aug/13	31/Dec/15

Policy development

Country	Contract title	Funding	Partners	Start	End
Netherlands	DUPC WWDR4 Water Allocation Subject	Min. van Buitenlandse Zaken DGIS/DML		01/Apr/10	18/Feb/15
	Water related climate change adaptation: a south-north dialogue on knowledge	Min. van Buitenlandse Zaken DGIS/DML		01/Jan/11	18/Feb/15
	ADB Water Learning Week	Asian Development Bank		01/Jul/12	26/Jun/15
	Marketing and Fund Raising for Joint MSc Programmes - Workshop	Min. van Buitenlandse Zaken DGIS/DML		29/Aug/12	15/Oct/15
	ADB 2nd Water Learning Week	Asian Development Bank		09/Apr/13	26/Jun/15
	ADB 3rd Water Learning Week	Asian Development Bank		17/Mar/14	26/May/15
	Support HELP-DRR-SDG	Stichting Deltares		01/Jan/15	30/Aug/15
	Algal Technologies Seminar	Min. van Buitenlandse Zaken DGIS/DML		01/Apr/15	08/Oct/15
Philippines	ADB Flood Risk Conference Rotterdam November 2012	Asian Development Bank		30/Oct/12	26/Jun/15
	ADB Urban Flood Tool	Asian Development Bank		30/Oct/12	26/Jun/15
Various Countries	UN Water Courses Universalisation and implementation	Min. van Buitenlandse Zaken DGIS/DML		22/Aug/14	31/Dec/15

Institutional strengthening

Country	Contract title	Funding	Partners	Start	End
Algeria	Support to Water Sector Algeria	Rijksdienst voor Ondernemend Nederland (RVO)	NABC (Lead), TUD, Leaf, WU, Deltares	30/Jan/12	18/Jun/15
Australia	Strengthening Educational Program to foster future water sensitive cities leaders	National Government		01/Oct/13	09/Jul/17
Azerbaijan	Water Treatment Plant Operation and Maintenance	The World Bank		20/Jul/11	09/Apr/15
Bangladesh	Capacity Development of Water Sector Related Climate Change Induced Disaster Management and Adaptation	Stichting Nuffic		01/Jul/11	30/Sep/15
	CD of Higher Education of Integrated Water Resources Management at CUET	Stichting Nuffic	WU, AIT	15/Aug/11	30/Apr/16
	DUPC NICHE BGD CUET	Min. van Buitenlandse Zaken DGIS/DML		15/Aug/11	31/Dec/15
	Scenario Development in Integrated Water Resources Management: coping with future challenges in Bangladesh	Stichting Nuffic	WU, Deltares	01/Mar/13	28/Feb/17
	Sanitation Technical for Enterprises	IRC International Water and Sanitation Centre		01/Sep/13	18/Jun/15
	Chittagong Water Supply Improvement	National Water and Sewerage Corporation		01/Oct/15	31/Dec/17
Benin	Capacity development and the establishment of a water institute in Benin	Stichting Nuffic	Deltares, TUD	02/Oct/12	31/Oct/15
Brazil	Capacity Building HidroEx phase 3	National Government		07/Jan/13	31/Dec/16
	Brazilian Science without Borders Fellowship Programme	HIDROEX	HidroEx, CNPq	20/Mar/14	30/Sep/15
China	Research fund for sustainability of water resources and environment in China, P.R.	Other funding agency not in list		08/Jun/07	31/Dec/16
	Support on the development of national strategy for the control of heavy metal emissions and its demonstration in key polluted areas	European Commission	CAEP	01/Nov/14	01/Nov/16
Colombia	Proposal for the development/improvement of the partnership UNESCO-IHE UNIVALLE	Stichting IHE		05/Jan/09	01/Oct/15
	Establishing a joint programme in hydroinformatics at univalle and IHE	Min. van Buitenlandse Zaken DGIS/DML		01/Jan/10	16/Oct/15
Egypt	Training Water Quality Early Warning System MWR	Rijksdienst voor Ondernemend Nederland (RVO)	Grontmij (Lead)	27/Jul/15	31/Dec/15
Ethiopia	Capacity building in Integrated River Basin Management for HEIs to support RBOs	Stichting Nuffic	WU, MetaMeta, IWMI, VU	01/Jan/10	03/Dec/15
	Capacity Development of HEIs in Small-scale Irrigation (and Micro Irrigation) at Arba Minch university	Stichting Nuffic		11/Sep/13	31/Dec/17
	Addis Ababa Water and Sewerage Authority Staff Training and Capacity Building	Addis Ababa Water and Sewerage Authority (AAWSA)	NWSC, VEI	01/Sep/14	03/Aug/16
Ghana	Joint Masters Programme In Water Supply And Environmental Sanitation Knust-IHE	Min. van Buitenlandse Zaken DGIS/DML	DCE, Kwame Nkrumah University	01/Oct/09	09/Nov/15
India	IWRM Proficiency Certification Program Phase 2 in India	Asian Development Bank		16/Nov/15	31/Dec/16
Indonesia	Roleplay training course for NPT Indonesia project	Stichting Nuffic		21/Dec/10	20/May/15
	Tailor Made Course on Integrated Lowland Development in Indonesia	Rijkswaterstaat Corporate Dienst	Research Centre for Water Resources, Bandung, Indonesia	20/Feb/12	11/Jun/15
	NICHE IDN 142 Capacity Development PUSDIKLAT IWRM Education and Training (CDIET) Project	Stichting Nuffic	PT IHE, Gender and Water Alliance, CKNet-INA	01/Jul/12	30/Jun/16
	Integrated Urban Flood Management	Ministerie van Verkeer en Waterstaat		01/Dec/12	16/Feb/16

Country	Contract title	Funding	Partners	Start	End
Indonesia	Short Course on Integrated Lowland Urban Drainage Development in Indonesia	Ministerie van Verkeer en Waterstaat		05/Jan/13	18/Jun/15
	ADB MARE Asia Indonesia: Towards Greener Asian Cities	Asian Development Bank		30/May/13	26/Jun/15
	Capacity Building for High Standard Education and Training Programmes for the Water Supply Sector in Indonesia	Stichting Nuffic	Vitens Evides International, ITB, ITS	01/Jun/13	31/May/17
	Integrated Management of Ciliwung River System in Jakarta Region	Rijkswaterstaat Corporate Dienst		29/Sep/14	31/Dec/15
	Managing Adaptive Response (MARE) to Changing Flood Risks in Indonesia Phase 2	Asian Development Bank		1/May/15	30/Jun/17
	Capacity Development in Integrated Coastal Zone Management	Stichting Nuffic	TUD	24/Sep/15	24/Sep/19
Kenya	Strengthening polytechnics to enhance delivery of quality edu programs in IWRM	Stichting Nuffic		1/Jan/120	31/Dec/15
	Capacity Buildin in IWRM at Graduate Level in Cooperation with KEWI	Stichting Nuffic		01/Jul/12	30/Jun/16

Advisory services

Country	Contract title	Funding	Partners	Start	End
Bangladesh	Food security Impact evaluation - Case study Bangladesh	Min. van Buitenlandse Zaken	APE (Lead), MDF, Aid Environment, BRAC IGS, BRAC DI	30/Oct/13	22/Jun/15
	Formulation of the Bangladesh Delta Plan 2100	Min. van Buitenlandse Zaken	Twynstra Gudde, Witteveen Bos, Deltares, Ecorys, Mottmac, Wageningen University, Alterra, D.EFAC.TO	12/Mar/14	12/Sep/16
Benin	Netwerkplaats	STICHTING NWP		01/Jan/12	12/Jun/15
	2nd Phase of the Benin WASH Programme	Royal Netherlands Embassy	COWI (lead)	10/Jan/14	29/Sep/14
	Perennial Sector Support Water and Sanitation, Phase II (PPEA II) program in Benin			01/Oct/14	10/Mar/15
	L'assistance Technique dite "structurelle" dans le cadre de la deuxième phase du Programme Pluriannuel d'appui au secteur Eau et Assainissement- Delta Plan	COWI		12/Jan/15	31/May/16
China	ADB Capacity Building of Chao Lake Management Authority	Asian Development Bank	Haarlem Hydraulics	01/Jun/12	26/Jun/15
Colombia	Evaluating Scarcity and Abundance in groundwater resources due to Climatic EXtremes	Rijksdienst voor Ondernemend Nederland	Deltares, Eikelkamp, FUGRO	15/Sep/14	15/Mar/16
Côte d'Ivoire	advice for immediate and future management of coastal erosion in Ivory Coast	National Government	Deltares	25/Nov/11	16/Jun/15
Egypt	Floodplain Management Plan (FMP) for Alexandria City, Egypt	Rijksdienst voor Ondernemend Nederland (RVO)		14/Dec/15	31/Jan/16
Ethiopia	Flood based farming for food security in arid zone of Africa_Case: Ethiopia	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH		01/Oct/12	15/Oct/15
Georgia	Knowledge needs assessment to strengthen the Georgian water sector	Rijksdienst voor Ondernemend Nederland (RVO)		05/Aug/15	31/Dec/16
India	ADB Tamil Nadu CC	Asian Development Bank		01/Jun/12	26/Jun/15
	Road Map Towards IUWM in Moradabad	WWF		29/Jun/15	31/May/16
Indonesia	NWP Netwerk Agreement Heun for Indonesia	STICHTING NWP		16/Feb/13	16/Feb/16
	Wastepickers Study on Municipal Solid Waste Management Systems in Central Java	Danish International Development Agency (DANIDA)		16/Dec/14	31/Dec/15
Mozambique	Water Mondiaal: Env Assess for Multi sector develop plan, Zambezi catchment	Other funding agency not in list		22/Jun/11	16/Apr/15
	Socio-economic study and impact assessment on private water vendors in greater Maputo	Vitens-Evides International B.V.		18/Jul/13	30/Sep/15
	Development of the Lower Zambezi Landscape Programme Strategy	WWF		30/Apr/15	18/Dec/15
Myanmar	Integrated Water Resources Management Workshop Myanmar - Future Perspectives	Rijksdienst voor Ondernemend Nederland (RVO)		20/Apr/14	18/Jun/15
	Study Phan Hlaing Sluice in Yangon Delta	Rijksdienst voor Ondernemend Nederland (RVO)		17/Nov/14	31/Mar/15
Nepal	ADB Groundwater Study Nepal	Asian Development Bank		29/Oct/12	26/Jun/15
	ADB Operational research for Integrated Approaches to Planning and Developing Hydro-power and River diversion projects in Nepal	Asian Development Bank		16/Nov/15	16/Dec/16

Country	Contract title	Funding	Partners	Start	End
Netherlands	DGIS Water Master Class	Stichting IHE		21/Jun/12	09/Nov/15
	Establishment of the Secretariat of the National Committee of UNESCO-IHP-HWRP	Ministerie van Verkeer en Waterstaat		15/Oct/12	31/Aug/16
	ADB project on Standards and Initiatives for Water Leadership Development Programmes	Asian Development Bank		05/Mar/13	26/Jun/15
	Netherlands Environmental Agency study for UN-Habitat	PBL Netherlands Environmental Assessment Agency		15/Jul/13	01/Jun/15
	Uitwerking van het thema Vitaal en Kwetsbaar voor het Deltaprogramma Rijnmond-Drechtsteden	Rijkswaterstaat Corporate Dienst		02/Sep/13	24/Jun/15
	Development of time series analysis software modules for the online world monitoring system	Stichting IGRAC		01/Feb/14	31/Mar/16
	Experience Centre Meerlaagsveiligheid Dordrecht	Programmabureau Kennis voor Klimaat	Bax & Willems, Gemeente Dordrecht, VU	11/Apr/14	31/Dec/15
	Editor agreement between IHE Delft and ELSEVIER	ELSEVIER		17/Sep/14	31/Dec/15
	ADB TOP-UP 4th Water Learning Week	Asian Development Bank		30/Jul/15	30/Nov/15
Niger	Support to Niger Basin Authority to improve the Flood Forecasting and Early Warning System	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	Deltares, Office International de l'Eau (OIEau) / International Office for Water (IOWater).	01/Mar/14	31/Jan/16
	Implementation of Satellite Based Water Monitoring and Flow Forecasting System in the Niger Basin	Rijksdienst voor Ondernemend Nederland (RVO)	EARS (lead)	01/May/14	31/Dec/17
Philippines	Establishing IWRM Planning Tools and Guidance; and Capacity Building	The World Bank	Deltares (lead), NHRC	01/Jan/15	31/Dec/15
	Scoping Mission Possible As Contamination Luzon	Rijksdienst voor Ondernemend Nederland (RVO)		01/Oct/15	30/Dec/15
Singapore	Multi-Objective Multiple Reservoir Management			01/Jul/11	25/Feb/16
South Sudan	South Sudan Mission Lakes for Dutch Programme	Rijksdienst voor Ondernemend Nederland (RVO)		02/Jan/12	24/Jun/15
Sudan	Operationalize Delft FEWS software	Other funding agency not in list		27/Jun/10	20/Oct/15
Sweden	ADB Eye on Asia contribution	Asian Development Bank		06/Jun/12	26/Jun/15
Thailand	ADB-FRAAYU Flood Risk Assessment and Development of a Risk Disaster Mitigation Plan for the Historic City of Ayutthaya, Thailand	Asian Development Bank	UNESCO Bangkok, HAI, AIT	01/Mar/13	26/Jun/15
Turkey	Transposition the WFD & advice on the org of the Min of Env & Forestry, Turkey	Rijksdienst voor Ondernemend Nederland (RVO)		03/Jan/11	21/Apr/15
Various Countries	Capacity development for Performance Improvement of Water Utilities	European Commission-EuropeAid	Waternet, IWA	01/Oct/11	31/Dec/16
	ADB Groundwater Research	Asian Development Bank	Inst. Global Env. Strategies, AIT, Coord Comm Geoscience Progr in East and SE Asia	06/Sep/12	26/Jun/15
	Supporting the National Water Legislation in South Asia and South East Asia	Asian Development Bank		1/Mar/13	26/Jun/15
	IWRM Proficiency Certification	Asian Development Bank		01/Mar/13	26/Jun/15
	TOP-UP of the ADB UIHE Knowledge Partnership	Asian Development Bank		01/May/14	31/Dec/18

Country	Contract title	Funding	Partners	Start	End
Various Countries	Capacity Building on Climate Change Adaptation Planning and Impact and Vulnerability Assessment	Mekong River Commission (OSV)		18/Jul/14	19/Jun/15
	Wetland Ecosystem Services	IUCN		01/Jan/15	31/Dec/16
	Support to Urban Flood Management Projects	Asian Development Bank		01/Apr/15	04/Dec/18
	ADB TOP-UP Support to ADB Water Events max. 30.000 USD	Asian Development Bank		5/Jun/15	31/Jul/18
	Completing Country Water Assessment by conducting a demonstration Water Accounting process	Asian Development Bank	IWMI	22/Jun/15	30/Jun/17
	Support to National Water Legislation	Asian Development Bank		24/Jul/15	24/Jul/18
	Erasmus+ Mundus Programme in Groundwater and Global Change - Impact and Adaptation	European Commission	IST Lisbon, TU Dresden	27/Nov/15	31/Jul/19
	PBL - Steden Water en Sturing	Planbureau voor de Leefomgeving		01/Dec/15	14/Apr/16
Viet Nam	Modeling the Mekong Delta at three different scales	Other funding agency not in list		01/Jan/12	27/Oct/15
	Support development and implementation of Water Accounting program for the Ca Basin in Vietnam as part of the VFD project	Winrock International		01/Jan/15	31/Dec/15
Yemen	Yemen Remote Sensing Scoping and Formulation mission	Rijksdienst voor Ondernemend Nederland (RVO)		13/Jun/13	22/Oct/15

Annex 10

Partners

Cooperation agreement, joint education & joint research partners

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 Addis Ababa University, Ethiopia
 Agencia Nacional de Investigación e Innovación (ANII), Uruguay
 Ain Shams University, Faculty of Engineering, Egypt
 American University of Technology (AUT), Lebanon
 An-Najah University, Palestine
 ASEM Water Resources Research and Development Center, China
 Asian Institute of Technology (AIT), Thailand
 Birzeit University, Palestine
 Palestinian Water Authority, Palestine
 Cap-Net
 Chandigarh University, India
 China University of Geosciences (CUG), China
 Danish Hydraulic Institute (DHI), Denmark
 Delft University of Technology (TUD), The Netherlands
 Deltares, The Netherlands
 Deutsche Wasserhistorische Gesellschaft, Germany
 Drainage Services Department of the Government of Hong Kong
 Dura Vermeer, The Netherlands
 Eastern Nile Technical Regional Office (ENTRO), Ethiopia
 Egerton University, Kenya
 Egyptian Ministry of Water Resources and Irrigation
 Eidgenössische Anstalt für Wasserversorgung, Abwasserreinigung und Gewässerschutz (EAWAG) Switzerland
 Exeter University, United Kingdom
 Florida Earth Foundation, U.S.A
 Food and Agriculture Organisation (FAO)
 Ghent University, Belgium
 Global Development Learning Network
 Global Water Partnership (GWP)
 Hanoi Water Resources University, Hanoi, Vietnam
 Haramaya University, Alemaya, Ethiopia
 Hohai University, China
 Hong Kong University of Science and Technology, China
 Honor Power Foundation, China
 Huaihe River Commission, China
 Hydro and Agro Informatics Institute (HAII), Thailand
 Institute for Hydrology, Meteorology and Environmental Studies (IDEAM), Colombia
 Institute of Chemical Technology, Czech Republic
 Institute Superior Politécnico José A. Ecchevería (CUJAE), Cuba
 Instituto Mexicano de Tecnología del Agua (IMTA), Mexico
 International Association of Dredging Contractors, the Netherlands
 International Atomic Energy Agency (IAEA)
 International Centre for Water Hazard and Risk Management (ICHARM)
 International Hydropower Association
 International Water Management Institute (IWMI)
 Iran Ministry of Energy / Regional Centre on Urban Water Management, Iran
 King's College London, University of London, United Kingdom
 Kwame Nkrumah University of Science and Technology (KNUST), Ghana
 K-Water, Korea

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 Maastricht School of Management, The Netherlands
 Mekong River Commission (MRC)
 Middle East Desalination Research Center, Oman
 Ministry of Education, Ethiopia
 Ministry of Water Resources, Iraq
 National Central University of Taiwan
 National Water & Wastewater Engineering Company, Iran
 National Water and Sewerage Corporation, Uganda
 National Water Authority of Nicaragua
 National Water Supply and Drainage Board of Sri Lanka
 The Nile Basin Initiative (NBI)
 The Nature Conservancy Agreement
 Nederlands Centrum voor Rivierkunde, the Netherlands
 Netherlands Ministry of Infrastructure and Environment, the Netherlands
 Nile Basin Capacity Building Network, Egypt
 Organisation of American States (OAS)
 Oregon State University, U.S.A and University of Peace, Costa Rica
 Palestinian Water Authority, Palestine
 Polytechnic University of Catalonia (UPC), Spain
 Ramsar Convention of Wetlands and Charles Sturt University
 Rand Water Academy, South Africa
 Rotary International
 São Paulo Government Agency for Pollution Control (CETESB), Brazil
 Sejong University, Korea
 The Ecuadorian National Water Secretariat (SENAGUA), Ecuador
 The International Institute for Water and Sanitation (ONEP), Morocco
 The International Institute of Social Sciences, The Netherlands
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Annex 11

UNESCO-IHE & Netherlands Alumni Associations

UNESCO-IHE alumni perform a vital role as 'ambassadors' to the world. The establishment and strengthening of the UNESCO-IHE Alumni Network is essential to promoting and facilitating knowledge dissemination, including the exchange of professional expertise and personal experience between alumni and the alma mater as well as amongst Alumni. These independent Associations organize various activities in their country.

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