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REPUBLIC OF BENIN

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AFRICAN CENTERS OF EXCELLENCE FOR DEVELOPMENT IMPACT (ACE IMPACT)



REPORT ON THE TRAINING VISIT TO THE WATERCAMPUS LEEUWARDEEN, THE NETHERLANDS FROM 3TH TO 7TH JULY 2023



Association of
African Universities
Association des universités africaines
ةفئفئرفأأا ءاؤءءءءء ءءءءءء



WORLD BANK GROUP



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT



I- BACKGROUND AND RATIONALE

It is well known that there is enormous potential for African youth to meaningfully engage in the innovation ecosystem as problem solvers, innovators, entrepreneurs, makers, doers, industry shapers, job creators, wealth transformers, and designers of Africa's future.

Studies have shown that young academics are particularly adept at engaging in creative and bold thinking while still immersed in learning, absorbing vast amounts of knowledge and eager to find their place in the world. It is not surprising that many of the world's great innovative companies were founded by young people during their college years, at a time in their lives when they see unlimited possibilities ahead of them and, regardless of their socioeconomic status, see themselves as relatively freer to take risks in their choices, free from family obligations, job restrictions, loan repayments, and other obligations, than at any other time in their adult lives.

This is also the reason why the World Bank launched the ACE Impact program to support the development of excellence in higher education and research institutions with a focus on economic and social development issues.

In Benin, the C2EA, based at the National Water Institute (INE) is one of the centers of excellence in Africa striving to impact local and regional development through training and research with large windows open on the promotion of innovation and entrepreneurship. This is very well aligned with the main indicators of the ACE Impact project indicator 5.3 pertaining to the establishment of an ecosystem favorable to the development of innovation and entrepreneurship. It is worth mentioning that the Africa Centre of Excellence for Water and Sanitation (C2EA) aims to provide Africa with a pole of competence, expertise and innovation on water and sanitation. This pole intends to meet the challenge of training highly qualified competent personnel capable of solving the various operational problems that arise in the different countries of West and Central Africa while taking into account the climatic, geological and spatial specificities of each country. Since the implementation of the C2EA project in 2019, more than 600 African students have been trained in a dynamic to rapproch and reconcile the professional world with the world of training and research by facilitating the internships of students in companies and by setting up short-term training and continuing education for the benefit of professionals in employment. In support to the foregoing, the C2EA has signed a collaboration agreement with the WaterCampus institutions, notably CEW -Centre of Expertise Water Technology- in the Netherlands, with the perspectives of learning from its' experiences and creating room for advancing the C2EA with a sound mechanism to promote innovation, technology transfer and propriety right protection.



The Centre of Expertise Water Technology (CEW) is the Netherlands leading knowledge and innovation centre for applied research and product development in the field of water technology. The CEW brings together expertise from education, research, government and industry. CEW offers services in applied research, product development and research facilities.

Wetsus, European centre of excellence for sustainable water technology, facilitates breakthrough innovations for water treatment technology. Wetsus is a facilitating intermediary for trend-setting know-how development and uses a unique innovation model. Wetsus' main activity is the coordination of a world leading research program. The inspiring and multidisciplinary collaboration between companies and research institutes in Wetsus results in innovations that contribute significantly to the solution of the global water problems. Within several (inter)national scientific programs in Wetsus, research institutes and industry jointly implement market-driven, application-oriented, multidisciplinary, (pre)competitive scientific research in the field of sustainable water technology. A dedicated Intellectual Property Rights policy is in place, to enable optimal cooperation, innovation and the commercialization thereof. This demonstrably results in successful innovations. Innovation, partnership, reliability, joy and cooperation are the values around which all Wetsus' activities are performed.

Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in water technology in the Netherlands. It brings together a complete chain of innovation for water technology, from first idea, research & development, specialised laboratories, a water application centre, various demo sites, launching customers to international applications with commercial companies.

The Center for Innovative Craftsmanship Water (CIV Water) is an innovative center that combines the development of VET students and professionals by connecting education and business. Together with these parties, we set up our development process, in which students and professionals are trained to become the agile professionals that the water sector needs.

WaterCampus Leeuwarden is a regional innovation ecosystem located in city of Leeuwarden, which is the capital of the province of Friesland, located in the Northern Netherlands. In 2022 Friesland was the fastest growing tech region in The Netherlands with a growth of 22%. Most of this growth results from the activities of the WaterCampus Leeuwarden. WaterCampus can act as a best practice for the development of C2EA in its process of becoming an African Centre of Excellence for impact, the beating heart of a successful regional innovation ecosystem which boosts water innovation and contributes to solving water challenges.



Given the objectives and ambitions of the C2EA on the one hand, and the winning model implemented by WaterCampus on the other hand, it is very clear that a collaboration between these two organisations is very desirable and would improve and strengthen the innovation ecosystem that the C2EA strives to put in place to boost local and regional development. It was therefore very relevant for the C2EA team to pay a visit to WaterCampus Leeuwarden in order to learn from its rich experience in developing a world class place-based innovation ecosystem in general and managing issues related to intellectual property, innovation and technology transfer in particular. The visit took place from 3th to 7th July 2023.

II- Objectives of the mission

The objectives of this mission were to :

- Learn about the innovation model of WaterCampus partners Wetsus, CEW and Water Alliance and CIV-Water (institutional and statutory framework);
- Participate in multiple working sessions on:
 - WaterCampus role as facilitator of trend-setting know-how development;
 - Process for defining joint research and education together with companies, education and research organizations;
 - Process for creating innovative solutions through implementation of research projects;
 - Organising an industry driven research agenda;
 - Educating and coaching students with innovative project ideas;
 - WaterCampus approach to startup creation and incubation;
 - Technology transfer from research organization to companies and vice versa;
 - Protection of intellectual property;
 - Commercialization of research results and entrepreneurship.
 - Get informed on innovative practices in technology transfer;
 - Discuss/define the objectives and content for the forthcoming three-day training workshop in Benin on the state of the art/ good practices/ situational analysis on innovation, intellectual property protection, commercialization of research results and entrepreneurship.

III- C2EA delegation members

The delegation was composed of 6 persons: **Prof. Daouda MAMA** (Coordinator of C2EA Project, Director of the National Water Institute (INE)), **Prof. Luc O. SINTONDI** (Responsible for C2EA Research Component, Deputy Director of the National Water Institute (INE)), **Dr. Yaovi Aymar BOSSA** (Assistant C2EA Project Management), **Dr. Onésime AKOWANOU** (C2EA Committee Member Innovation), **Dr.**



Yèkambèssoun N'TCHA M'PO (C2EA M&E) and **Mr. Karim ISSIFOU IMOROU** (coordination of DLI 5.3: Innovation and Entrepreneurship).

IV- Conduct of the mission

Day 1

Introductory presentations

On behalf of the host institutions, the meeting was opened by Dr. Uchechi Obinna. In his address, he warmly welcomed the Benin's delegation. Furthermore, he emphasized on the need for both parties, to collaborate and learn from each other in order to address the challenges in water technology.

Morning program

A Presentation was given by Dr Bossa Aymar on the C2EA and its vision for innovation and entrepreneurship. The objective was to present the C2EA, its goals, what was done so far and what are the challenges. Pieter de Jong also made an online presentation on the Innovation model of Wetsus, CEW, Water Alliance, CIV-Water (institutional and statutory framework). At the end of his presentation, we had a better understanding of the components of the Water Campus. Each member of the water alliance then made a presentation on their model and their role in the ecosystem:

- Dr Thomas Prot on Wetsus model;
- Dr Jordi Moreno on CEW model;
- Stefan Bergsma on Water Alliance model & Market uptake
- Pieter de Jong on CIV Water model

➤ About Wetsus model

Wetsus, European centre of excellence for sustainable water technology, initiates and facilitates breakthrough innovations for water treatment technology.

Wetsus is organized around its aim to stimulate collaboration between the various public and private organizations that together constitute the water sector: i.e. between public companies, private companies and universities; between scientific chairs; and between regional, national and European policy makers. The Wetsus Open Community Cooperation Model creates the synergy and momentum required to achieve major objectives.



Wetsus is a not-for-profit foundation located in Leeuwarden, the Netherlands. Wetsus combines a campus approach with an international know-how network strategy. At WaterCampus Leeuwarden, multidisciplinary know-how, education and talent are concentrated, valorization and commercialization are accelerated and facilities are shared

➤ About CEW model

The Centre of Expertise Water Technology (CEW) supports innovation by developing demand driven new products and processes in the field of water technology. CEW brings together governments, entrepreneurs and educational institutions. By collaborating with universities of applied sciences, support on all levels of experience and education can be provided. With CEW support technologies can be developed and demonstrated from lab scale to full scale. By conducting applied research and product development, CEW accelerates innovation. CEW tailor made approach can support most needs of SME's, end users, industries etc.

➤ About Water Alliance model

Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in water technology in the Netherlands. It brings together a complete chain of innovation for water technology, from first idea, research & development, specialised laboratories, a water application centre, various demosites, launching customers to international applications with commercial companies.

➤ About CIV Water model

CIV WATER The Centre for Innovative Water Craftmanship focusses on educating employees and students to a vocational level in the field of water. Working with educational institutions as well as governmental agencies such as Wetterskip Fryslân (the Frisian Water Board) and Vitens (a water organization based in the north of the Netherlands), we aim to contribute to the development of outstanding water professionals, not only in the region of Fryslân, but also nationally and internationally.

The presentations allowed us to understand the water alliance ecosystem and the process for defining joint research & education together with companies, education and research organizations. While Wetsus deals with science, CEW makes applied research and water alliance the business part. They are not competitors, but complement each other. We also understood to create innovative solutions through implementation of research projects.

The figure below presents the complementary organizations of the water campus ecosystems and where they stand in the ecosystem.



provinsje fryslân
provincie fryslân

Gemeente Leeuwarden



Afternoon program

In the afternoon program, the presentations were made. Dr Marco de Graff shared the experience of the aqua nirvana foundation in providing sustainable technology for water supply in African countries, based on their humanitarian's experience in Kenya.

Benin experience on education of students with innovative project ideas exchange of experiences with WaterCampus was shared online by Mr. Arnaud DANGBENON.

He mainly talked about:

- UAC startup valley program

The UAC Startup Valley is a program of business incubators. This program was set up by rector's decree in 2014 by the UAC to contribute to the resolution of the problem of unemployment and underemployment of young people.

- The Mastercard Foundation Scholars Program Entrepreneurship Program

The Mastercard Foundation scholarship program aims at awarding full scholarships to outstanding Beninese youth from poor backgrounds. The goal is to help them build the capacities they need to become leaders in the future at the national and continental level.

- Experience of BIOVALOR



Biovalor project entitled: “Strengthening the skills approach and entrepreneurial culture in higher agronomic training: levers for professional integration and the development of the bio-economy in Benin”

- UAC Center for Student’s employability and entrepreneurship

The Center for Student Employability and Entrepreneurship (C3E) at the University of Abomey-Calavi was created in June 2022. Its main mission is to develop the skills of young people to promote their professional integration.

And Benin experience on organizing an industry-driven research agenda exchange of experiences with WaterCampus was presented by Dr. AKOWANOU AV. Onésime

Some projects carried out were mentioned. It's about:

- **Project: NOEVA**

Objectives: Assessment the groundwater resources on which the Greater-Cotonou area relies, in order to improve the management of water supply to the residents.

- Project: Eau-Socle-Donga

Objectives: Using geophysical and GIS methods to identify of high-throughput drilling points in basement zones

- Project: OMIDELTA

Objectives: Elaboration of Ouémé delta water management plan

- Project: ADELAC

Objectives: Hydrological modelling of Lake Ahémé and its channels

- Project: Hotel Sanitation

Objectives : Waste Water Treatment Plant Design for the Hotel

- Project: Hotel Sanitation

Objectives : Optimal conditions for operating the "Adjagbo " Fecal Sludge Treatment Plant

Day 2

Day 2 was opened by Ir. Jeroen Rijnhart, Director CEW, who welcomed thee Benin’s delegation, since he could not attend the day 1. Different presentations were made by our host to allow sus to deepen our



understanding of the water campus ecosystem and understand how we can meet our defined objectives for the mission, on the following topics:

- Approach to startup incubation (intellectual property protection, commercialization of research results and entrepreneurship) by Ronald Wielinga

He proposed methods for solving global water crises:

- Enabling Water Technology
- Entrepreneurship
- 5 pillars & 5 phases: Inspire , Educate ,Incubate, Accelerate, Grow
 - Technology transfer from WaterCampus to companies and vice versa, protection of intellectual property rights by Dr. Thomas Prot
 - Applied research with companies and governments (WTN experience) by Dr. Jordi Moreno
 - Regional governments supporting the development of a world-class innovation ecosystem by Elisabeth Rekker (Province of Friesland)
 - Impact of WaterCampus for the City of Leeuwarden by Anke Hoekstra (Municipality of Leeuwarden)

It was clear from their presentations that a joint and collaborative work from governmental and municipal institutions, research centres, entrepreneurs, funding institutions is mandatory to achieve a good and fruitful innovation and entrepreneurship ecosystem. When it comes to protection of intellectual property, Wetsus do invest and protect only technologies that have unique qualities and are willing to be used by the companies of the ecosystem.

Afternoon program

Two technologies, Hydraloop and solaq were respectively presented by Henk Postma and Reuben More. The Hydraloop system is designed to reuse household water whereas the Solaq system is designed to produce water from air. The systems are presented below. Both Hydraloop and Solaq are startup promoted by Water alliance.



SOLAq

Sustainable drinking water from the air



Full scale unit with production capacity of **1-5 m³** water per day
~100-150 m² solar field needed for 1 m³/day

- Low energy, low costs
- Anywhere in the world
- Powered by the sun
- Modular, transportable, off-grid

Social activities such as Boat ride in the city center of Leeuwarden and dinner in Leeuwarden city centre (Chinese/Indonesian Restaurant Sin Jah) were also undertaken.

Day 3

Morning program

The morning program started with the traditional welcome of Dr Uchechi Obinna. This was followed by a presentation of Dr. Ir. Luewton Lemos about the Research group on Water Technology of NHL Stenden.

Stenden University of Applied Sciences is a state-funded [professional university](#) in the north of the [Netherlands](#). The University is the product of the merger in 2008 of Hogeschool Drenthe and

Christelijke Hogeschool Nederland. Stenden University of Applied Sciences has more than 11,000 student.

it is noted that water technology does not only service the water sector; it is also essential for all manufacturing and process industries, as well as for agriculture. Wetsus has been instrumental in maximizing the innovation potential by reaching out across boundaries and silos, and by combining the strengths of global companies and European knowledge institutes.

furthermore the session led to a clear understanding of:

- Smart Hydrogen
- Smart Sustainable Manufacturing
- Computer Vision & Data Science
- Sustainable Polymers
- Circular Plastics

The research areas of the water and technology group are presented below.



We then visited the Water Application centre and Wetsus laboratory.



Visit on Water Application Centre, Van Hall Lareinstein

Afternoon program

The afternoon program also consisted of a visit on the Frysland wastewater treatment plant and the demonstration site of Wetterskip. We were not able to visit too much on the wastewater treatment plant because of the weather. On the demo site, we were able to see how household wastewater was treated by and reused by producing phosphorus.

Day 4

Morning program

The morning program was focused on the educational structure and program sustaining the water campus. The following presentations were made :

- Wetsus academy educational program by Dr. Valentina Secchi

For example The Master programme is offered jointly by Wageningen University, University of Twente and University of Groningen with education being provided at the WaterCampus, in Leeuwarden. In the field of water (process) technology, breakthrough technological developments are required. Not only to enable the export ambitions of the water sector but also to solve global threats and challenges in society.

A combined technological approach, based on the state-of-the-art in science and technology, may offer a solution to several developments, within business and society, with a worldwide impact on the demand for and use of water.

- Talent development for continuous learning by Rouël Gnodde

In the education and talent fields, Wetsus closely cooperates with the other actors in WaterCampus Leeuwarden and with national organizations. Many of these programs are characterized by a STEM



approach. STEM is based on the idea of educating students in four specific disciplines Science, Technology, Engineering and Mathematics. Rather than teach the four disciplines as separate subjects, they are as much as possible integrated into cohesive learning models based on real-world applications.

Together with the partners at WaterCampus Leeuwarden, Wetsus is dedicated to play an important role in the inspiration of young people to choose for a scientific or entrepreneurial career in which they can help solve the global water problems.

- Wetsus experience from a PhD student by Elorm Ezugbe

Wetsus capitalizes on several years of PhD training experience. It is a very favorable environment for research. The laboratories are well equipped with state-of-the-art equipment, well-qualified and helpful staff. In Wetsus you will find a lot of nationalities and cultures.

- Sustainable Water Systems project examples by Dr.ir. Peter van der Maas

The presentation focused on water treatment, quality and management.

- NHL Stenden educational program structure by Femke Tamminga

NHL Stenden is one of the top 4 universities of applied sciences in the Netherlands.

Very useful information was given on the mode of operation of this university

- Van Hall Larenstein educational program structure by Jannet Lavalette

Established in 2003, the Van Hall Larenstein University of Applied Sciences is a private higher education institution located in the large town of Velp, Gelderland. This institution also has a branch campus in Leeuwarden.

Afternoon program

The afternoon program was composed of an Interactive session on water-related issues in Benin/West Africa, and the potential role of Dutch Water Technology companies in solving these issues (with Stefan Bergsma, Water Alliance). It appears that the main issues to be addressed are related to water supply, Water treatment and Water resource management. The organization of the forthcoming three-day training workshop in Benin on the state of the art/good practices/ situational analysis on innovation was also discussed.

The group made a brainstorming session on the topic of the workshop in Benin, the specific knowledge and experiences to share were discussed.



Day 5

The last day, we discussed with the organizing committee of the European WaterCampus Business Challenge (EWCBC). Discussion were on the conditions and criteria for organizing a challenge in Africa with the Net Water connected countries, with Ronald Wielinga (online).

A debriefing session was made with Dr Uchecchi Obinna.

The Group also visited the water alliance startups offices located near Wetsus.

V- Conclusion and closing remarks

At the end of this mission, the following results were obtained:

- 1- Combining scientific excellence with commercial relevance
- 2- Societal water challenges and solutions
- 3- Enabling water technology for cross-overs
- 4- Demand driven cooperation model
- 5- WaterCampus role as facilitator of trend-setting know-how development;
- 6- Process for defining joint research and education together with companies, education and research organizations
- 7- Process for creating innovative solutions through implementation of research projects;
- 8- Educating and coaching students with innovative project ideas;
- 9- Technology transfer from research organization to companies and vice versa;
- 10- Protection of intellectual property;
- 11- WaterCampus approach to startup creation and incubation;

Furthermore, it is noted that Water is becoming more and more a global and societal problem. Wetsus develops new breakthrough technologies for water treatment to help solve these global societal threats and challenges.

It is also important to testify that the involvement of the government and the territorial authority has a positive impact on the activities of wetsus.

At the end of the training, the mission warmly thanked on behalf of the C2EA, the Dutch partners for their hospitality and their availability. The mission was very satisfied with the various presentations to which it was entitled from the first to the last day.

The work ended with the presentation of gifts to the members of the C2EA delegation.



The participants of the training program agreed with water campus to further the discussions regarding the specific context of C2EA and Benin Republic in order to better apply the lessons learned. The discussions should also concern the forthcoming workshop that will take place in Benin in September 2023.



Annex I : The agenda of the mission

03/07/2023 (Room 3.02 Water Campus, Oostergoweg 9 Leeuwarden)

9:00 – 9:15 Walk-in, Coffee/Tea

9:15 – 9:20 Welcome by **Dr. Uchechi Obinna**

9:20 – 9:50 Presentation of the C2EA and its vision for innovation and entrepreneurship by **Prof. Daouda Mama**

9:50 – 10:20 Innovation model of Wetsus, CEW, Water Alliance, CIV-Water (institutional and statutory framework) by **Pieter de Jong (Online)**

10:20 – 10:50 *Wetsus model by **Dr. Thomas Prot**

10:50 – 11:00 Break

11:00 – 11:30 *CEW model by **Dr. Jordi Moreno**

11:30 – 12:00 *Water Alliance model & Market uptake by **Stefan Bergsma**

12:00 – 12:30 *CIV Water model by **Pieter de Jong (online)**

*Integrate in the WaterCampus partners process for defining joint research & education together with companies, education and research organizations

*Process for creating innovative solutions through implementation of research projects

Afternoon program

13:30 – 14:00 Appropriate technologies for Water in Africa by **Dr. Marco de Graaff (online)**

14:00 – 16:00 Benin experience on organizing an industry-driven research agenda exchange of experiences with WaterCampus (**speaker from Benin**)

14:00 – 16:00 Benin experience on education of students with innovative project ideas exchange of experiences with WaterCampus (**speaker from Benin**)

16:00 – 17:00 Drinks

04/07/2023

Room 3.02 Water Campus, Oostergoweg 9 Leeuwarden

9:00 – 9:15 Walk-in, Coffee/Tea

9:15 – 9:20 Welcome by **Ir. Jeroen Rijnhart** (Director CEW)

9:20 – 9:50 Approach to startup incubation (intellectual property protection, commercialization of research results and entrepreneurship) by **Ronald Wielinga**

9:50 – 10:20 Technology transfer from WaterCampus to companies and vice versa, protection of intellectual property rights by **Dr. Thomas Prot**

10:20 – 10:50 Applied research with companies and governments (WTN experience) by **Dr. Jordi Moreno**

10:50 – 11:00 Break

11:00 – 11:30 Regional governments supporting the development of a world-class innovation ecosystem by **Elisabeth Rekker** (Province of Friesland)

11:30 – 12:00 Impact of WaterCampus for the City of Leeuwarden by **Anke Hoekstra** (Municipality of Leeuwarden)

12:00 – 12:30 General Discussions

12:30 – 13:30 Lunch break

Afternoon program

13:30 – 14:45 Presentations of promising water technology startups

- Hydraloop by **Henk Postma**

- Solaq by **Reuben Moore**



14:45 – 15:15 Run-EU programme and financing for EU-Africa collaboration by **Jan van der West**
15:30 – 17:00 Boat ride in city center of Leeuwarden
18:00 Social dinner in Leeuwarden city centre (Chinese/Indonesian Restaurant Sin Jah)

05/07/2023

(Room 3.02 Water Campus, Oostergoweg 9 Leeuwarden)

9:00 – 9:15 Walk-in, Coffee/Tea

9:15 – 9:20 Welcome by **Dr. Uchechi Obinna**

9:20 – 10:00 Presentation about the Research group on Water Technology by **Dr. ir. Luewton Lemos**

10:00 – 11:15 Visit to Water Application Centre

11:20 – 12:30 Visit to Wetsus laboratory

12:30 – 13:15 Lunch break

Excursions/site visits

13:30 – 14:45 Wetterskip Fryslân Waterharmonica Grou

15:15 – 16:30 Demonstration site of Wetterskip (Waste water treatment Leeuwarden)

06/07/2023 Mata Hari Zaal Kanselarij

9:00 – 9:15 Walk-in, Coffee/Tea

9:15 – 9:20 Welcome by **Dr. Uchechi Obinna**

9:20 – 9:50 Wetsus academy educational program by **Dr. Valentina Secchi**

9:50 – 10:20 Talent development for continuous learning by **Rouël Gnodde**

10:20 – 10:50 Wetsus experience from a PhD student by **Elorm Ezugbe**

10:50 – 11:00 Break

11:00 – 11:30 Sustainable Water Systems project examples by **Dr.ir. Peter van der Maas**

11:30 – 12:00 NHL Stenden educational program structure by **Femke Tamminga**

12:00 – 12:30 Van Hall Larenstein educational program structure by **Jannet Lavalette** Lunch Break

12:30 – 13:30 Lunch break

Afternoon session

13:30 – 14:30 Interactive session on water-related issues in Benin/West Africa, and the potential role of Dutch Water Technology companies in solving these issues (**with Stefan Bergsma, Water Alliance**)

14:30 – 15:15 The organization of the forthcoming three-day training workshop in Benin on the state of the art/good practices/ situational analysis on innovation: objectives and content definition

15:15 – 15:30 Break

15:30 – 16:30 Brainstorm session on the topic of the workshop in Benin. Which knowledge and experiences to share

16:30 – 17:30 Drinks by Irish Pub Paddy O’Ryan

07/07/2023 Room 3.10 Water Campus Oostergoweg 9 Leeuwarden

9:00 – 9:15 Walk-in, Coffee/Tea

9:15 – 9:20 Introduction by **Dr. Uchechi Obinna**

9:20 – 10:20 Meeting with the organizing committee of the European WaterCampus Business Challenge (EWCBC). Discussion of conditions and criteria for organizing a challenge in Africa with the Net Water connected countries, with **Ronald Wielinga (online)**

10:20 – 12:20 Debriefing session of the mission

Annex II : Attendance lists

Attendance list


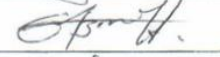


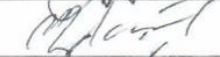

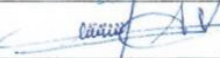
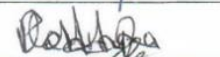



Venue/meeting Benin delegation training & exchange workshop

Location WaterCampus Leeuwarden

Date 3th June 2022

Time 9am – 5pm

Name	Organisation	Signature
S. MORENO	CEW	
BOSSA, Aymar	INE/UAC	
SINTON DEL LUCO	INE/UAC	
N'TCHA M'PO. Y.	CSEA/INE/UAC	
MATIA Dawuda	CSEA/INE/UAC	
ISSIFOU Karim	CSEA/INE/UAC	
AKOWANDU AN. Giesime	CSEA/INE/UAC	
UCHECHI OBINNA	CEW LEEUWARDEN	
Sevan Pyubant	CEW	



Attendance list



Venue/meeting Benin delegation training & exchange workshop

Location WaterCampus Leeuwarden

Date 4th June 2022

Time 9am - 5pm

Name	Organisation	Signature
R. Wielinga	Watercampus	
L. MORENO	CEW	
BASSA, Aymar	INE / UAC	
Elisabeth Relhe	Province Fryslân	
SINTONSSI Luc O.	INE / UAC	
MAMA Dawuda	C2EA / INE / UAC	
N'TCHA M'PO Y	C2EA / INE / UAC	
ISSIFOU Karim	C2EA / INE / UAC	
AKOWANOU XV Onisime	C2EA / INE / UAC	
UCHECHI OBINNA	CEW LEEUWARDEN	
ANKE HOEKSTRA	MUNICIPALITY OF LWD	
Reben Moore	SOLING	
Henk Postma	HydraLoop	
Sevan Reijnders	CEW	
Jan van der West	NHL stenden	



Attendance list



Venue/meeting Benin delegation training & exchange workshop

Location WaterCampus Leeuwarden

Date 5th June 2022

Time 9am - 5pm

Name	Organisation	Signature
UCHECHI OBINNA	CEW LEEUWARDEN	<i>[Signature]</i>
Virgile Onesime AKOWANDU	CREA INE/UAC	<i>[Signature]</i>
BOSSA, Aymar	CREA/INE/UAC	<i>[Signature]</i>
ISSIFOU Karim	CREA/INE/UAC	<i>[Signature]</i>
N'TCHA M'PO Y.	CREA/INE/UAC	<i>[Signature]</i>
MAMA Dabuda	CREA/INE/UAC	<i>[Signature]</i>
SINTOWNI Luc O.	CREA/INE/UAC	<i>[Signature]</i>



Attendance list



Venue/meeting Benin delegation training & exchange workshop

Location WaterCampus Leeuwarden

Date 6th June 2022

Time 9am - 5pm

Name	Organisation	Signature
Valentina Sechi	Wetsus / Master Water Technology	
Elorm Dede Euzobe	wetsus PhD	
MAMA Daouda	C2EA/INE/UAC	
SINTONBSI Lucu	C2EA/INE/UAC	
AKOWANOU A.V Ouesime	C2EA/INE/UAC	
Edward Kimani	Wetsus PhD	
BOSSA Ayman	C2EA/INE/UAC	
N'TUTHA M'PO Y.	C2EA/INE/UAC	
ISSIFOU Karim	C2EA/INE/UAC	
UCHECHI OBINNA	CEW LEEUWARDEN	
Ronel Grobble	Wetens Univ of Applied Sciences	
Jannet Lavalette	Van Hall Larenstein University	
Peter vd Maas	VHL Univ of Applied Sciences	
Markijn Schadron	VHL Univ of Applied Sciences	
Bego Osuna	CEW Leeuwarden	
SORMI MORENO	CEW	
Stefan Bergsma	Water alliance	
Janneke Dickhout	CEW	
Dana Colpa	CEW	
...	CEW	



Attendance list



Venue/meeting Benin delegation training & exchange workshop

Location WaterCampus Leeuwarden

Date 7th June 2022

Time 9am - 5pm

Name	Organisation	Signature
UCHECHI OBINNA	CEW LEEUWARDEN	
AKOWANOU A.V. ONESIME	C2EA/INE/UAC	
BOSSA Alymar	C2EA/INE/UAC	
SINTONDISI Luc O.	CREA/INE/UAC	
N'ICHA M.P.O J.	CREA/INE/UAC	
MAMA Dawouda	C2EA/INE/UAC	
ISSIFOU Karim	C2EA/INE/UAC	