



Africa Centre of Excellence for Water Management

Addis Ababa University

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Overview of The Africa Center of Excellence for Water Management (ACEWM) and Potential Areas for Future Collaborations

Feleke Zewge (PhD)

Director of ACEWM

Professor of Environmental Engineering



About Addis Ababa University (AAU)



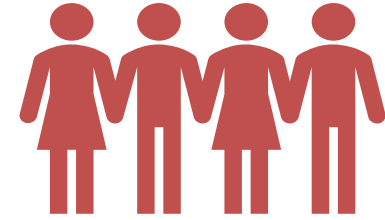
Founded in 1950 with
50 Students



75 Graduations



285,000 Alumni



✓ 34,000+ Students



- ✓ 17 Campuses
- ✓ 7 Colleges
- ✓ 7 Research Institutes
- ✓ 1 School of Law



- ✓ 7589 Employees,
- ✓ 2053 Academic,
- ✓ 3723 Administrative,
- ✓ 1187 Health Professionals,
- ✓ 142 Technical Assistants,
- ✓ 12 Expat Staff



- ✓ 416 Academic Programs,
- ✓ 66 Undergraduate,
- ✓ 350 Postgraduate

About ACEWM

- The Africa Center of Excellence for Water Management (ACEWM) was established in 2016 as part of the ACEII Project and hosted under the Addis Ababa University (AAU).
- ACEWM is Africa's premier hub for postgraduate education, research, and community-driven water solutions.
- Hosted by Addis Ababa University (AAU), ACEWM addresses Africa's complex water challenges through:
 - Holistic Training: Master's and PhD programs integrating science, policy, and innovation.
 - Applied Research: Cutting-edge projects focused on sustainable resource management.
 - Public Engagement: Internships, technical training, and outreach across the region.
- ACEWM offers internationally accredited MSc and PhD programs, hands-on internships, technical training, and community outreach, driven by broad-based partnerships with universities, industries, and government agencies.
- ACEWM is fully integrated into the College of Natural and Computational Sciences of Addis Ababa University

We Consider Water as A key Driver for All 17 SDGs



Strategic Intent of ACEWM



MISSION

To produce competent MSc and PhD graduates, pursue problem-solving (applied) research in water management, and engage in scholarly community services at national, regional and global levels.



VISION

To become a leading globally recognized Regional Center of Excellence in teaching, research and scholarly community engagement in Water Management in Africa.



VALUES

1. Excellence
2. Innovation
3. Academic freedom
4. Unity and inclusiveness
5. Integrity and honesty
6. Responsibility and accountability
7. Customer focused

Focus Areas of ACEWM

1. Safe drinking water and sanitation
2. Water and wastewater management and technologies
3. Water and One Health
4. Water for food security
5. Water and energy
6. Water and climate change
7. Water storage and water shade management
8. Productivity of the water environment ecosystems
9. Water quality monitoring and management
10. Water resources development and management
11. Water governance

Academic Programs of ACEWM: Internationally Accredited

PhD Programs

1. Water Management (3 tracks):
 - Water Science & Technology
 - Hydrology & Water Resources
 - Groundwater Resources
2. Aquatic Ecosystems Management
3. Water & Health (Public Health or Wastewater Treatment)

MSc Programs

1. Water Management (3 tracks):
 - Hydrology & Water Resources
 - Water Quality Management
 - Water & Development
2. Water, Sanitation & Health
3. Wastewater Management
4. Aquatic Ecosystems Management

Quality and Relevance of Our Academic Programs

**Our Internationally Accredited
by fulfilling European Standards and Guidelines for
Quality Assurance in the European Higher Education
Area (ESG)**

Following a full programme review

Following a full programme review

AQAS

AGENTUR FÜR
QUALITÄTSSICHERUNG DURCH
AKKREDITIERUNG VON
STUDIENGÄNGEN E.V.

accredits the Study Programme

WATER MANAGEMENT [PhD]

(with specialisations in "Hydrology and Water Resources Management", "Aquatic Ecosystems and Environmental Management", and "Water Science and Technology")

at the

ADDIS ABABA UNIVERSITY

The accreditation procedure and the resolution are based on the Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG). The programme essentially complies with the AQAS criteria for doctoral programmes and is compliance with the requirements defined by the ESG. The accreditation is implemented according to the resolution of the Standing Commission of December 6, 2021. The accreditation is conditional and valid until September 30, 2027.

Procedure No. 77088

COLOGNE, DECEMBER 6, 2021

Prof. Dr. Eberhard Menzel
PROF. DR. EBERHARD MENZEL
PRESIDENT

Doris Herrmann
DORIS HERRMANN
MANAGING DIRECTOR

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AQAS

AGENTUR FÜR
QUALITÄTSSICHERUNG DURCH
AKKREDITIERUNG VON
STUDIENGÄNGEN E.V.

accredits the Study Programme

WATER MANAGEMENT [MASTER OF SCIENCE]

(with specialisations in "Hydrology and Water Resources", "Water Quality Management", "Aquatic Ecosystems Management", "Water Supply and Sanitation", and "Water and Wastewater Treatment Technology")

at the

ADDIS ABABA UNIVERSITY

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Database

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Addis Ababa University

Basic information

Identifiers

DEQARINST7367

Legal seat(s)

Addis Ababa, Ethiopia

Website

<http://www.aau.edu.et/>

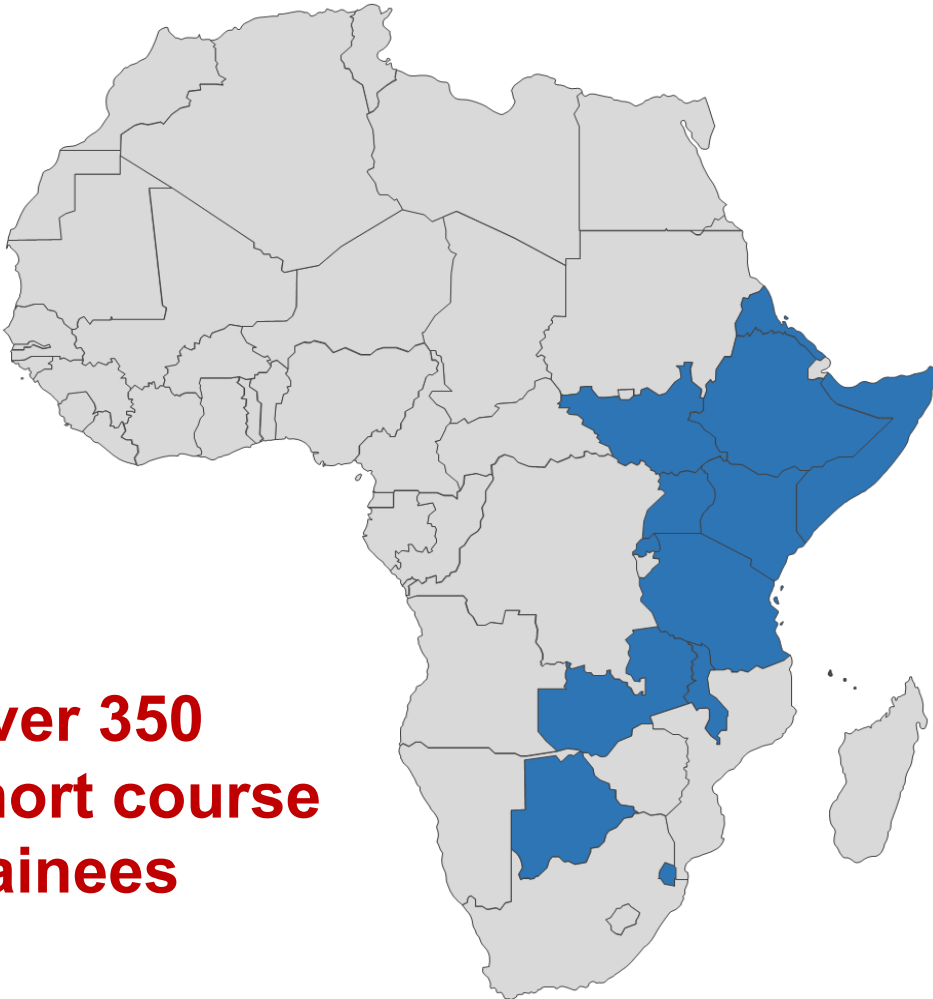
QF-EHEA levels

third cycle, second cycle, first cycle, short cycle

Focus on Regionalization/Internationalization

ACEWM's Regional Footprint in Graduate Education

144 M.Sc. & 117 Ph.D. students



**Over 350
short course
trainees**

Ethiopia

Kenya

Somali

South Sudan

Uganda

Rwanda

Tanzania

Zambia

Botswana

Eswatini

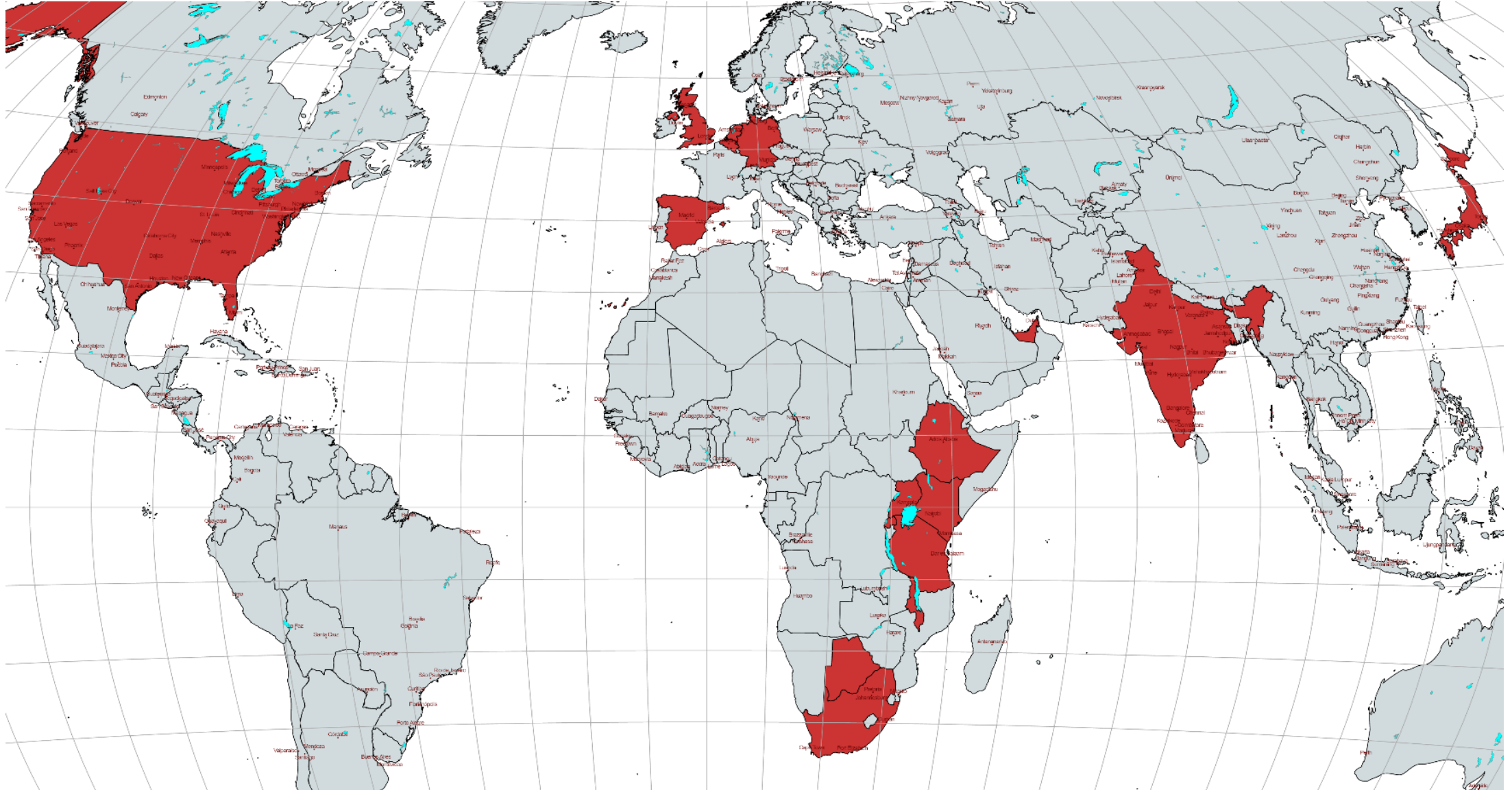
Eritrea

Malawi

France



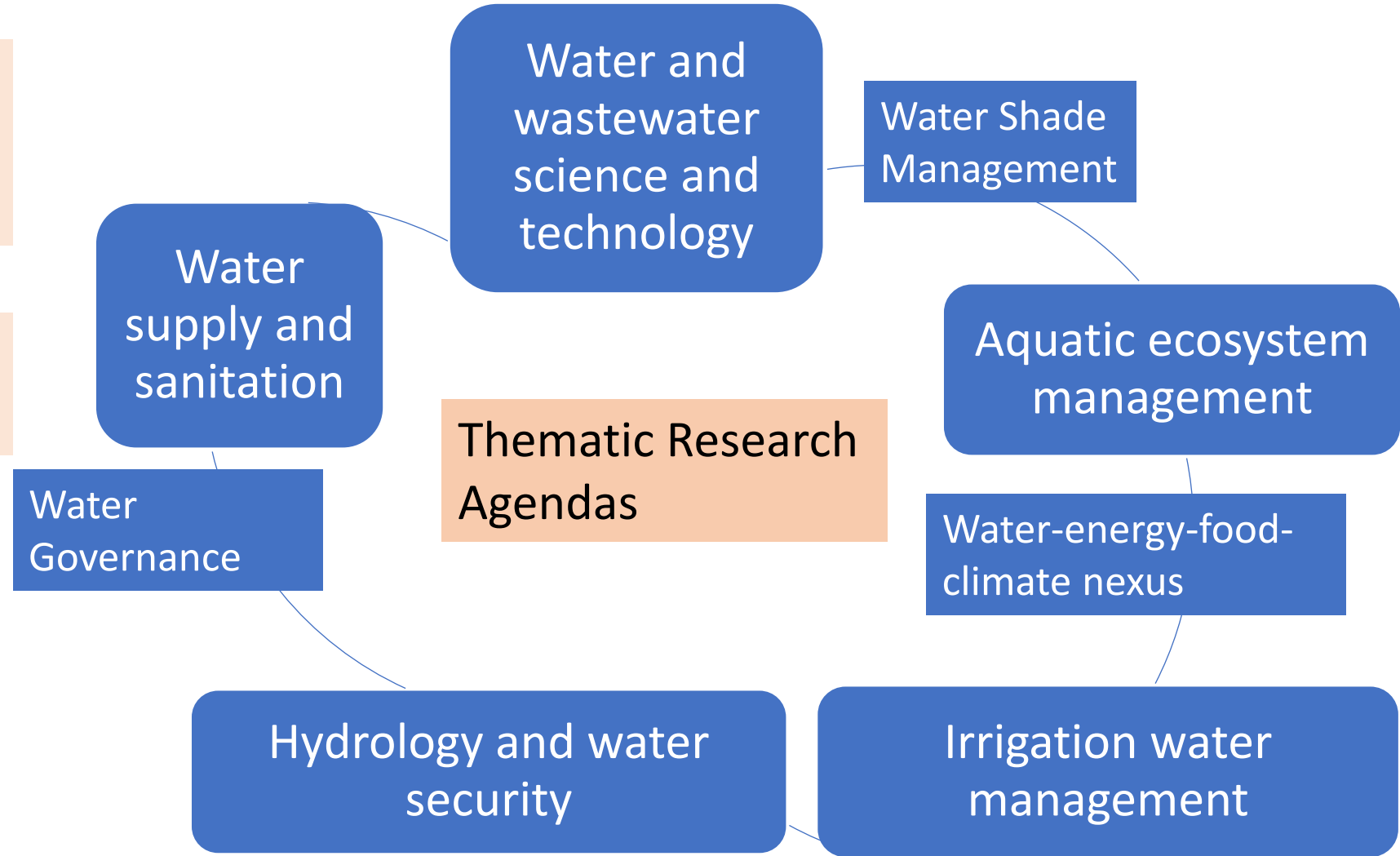
Academic Mobility of Students and Faculty
over 300 exchange visits national, regional, international



Thematic Research Agendas

Identified well
focused sub-
thematic areas

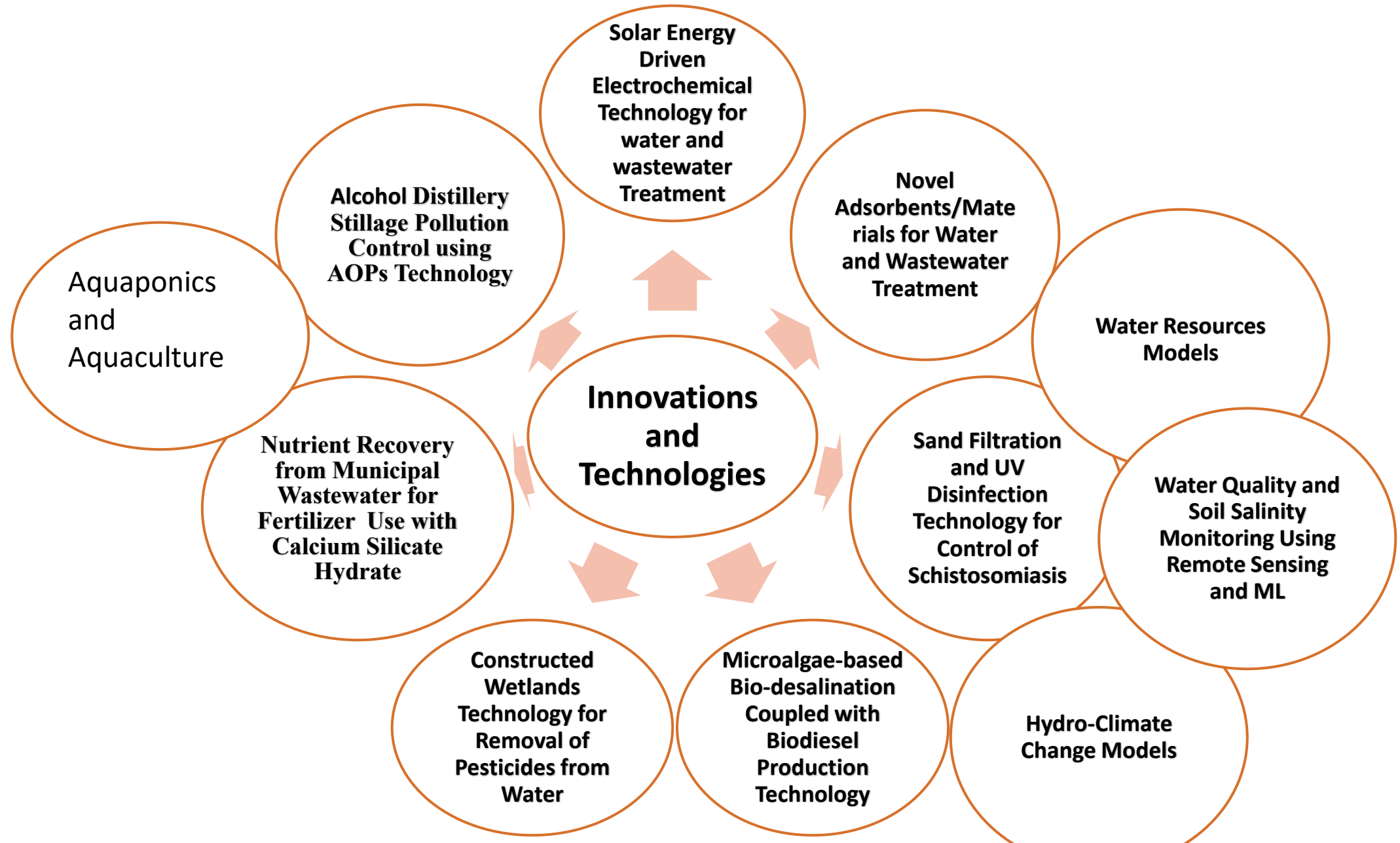
Identified research
priorities



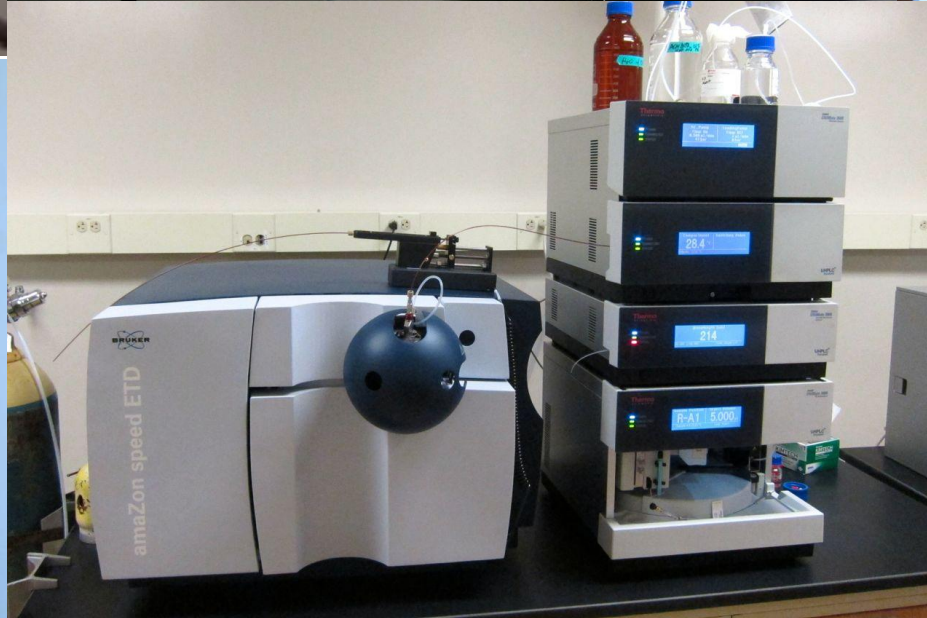
Major International Projects

	Project	Funding Organization	Collaborators
1	The ACEII Project	The World Bank (6 Million USD)	Government, WB, Partner Institutions
2	Tackling The Challenge of High Fluoride in Water in Eastern & Southern African Countries	USAID/NSF, USA (350,000 USD)	The University of Oklahoma, USA
3	Water Infrastructure for Schistosomiasis Endemic Regions (WISER)	Engineering and Physical Sciences Research Council (EPSRC), UK (1.4 Million GBP)	Imperial College London, Natural History Museum of London, National Health Research Institute of Tanzania
4	The Urban-Suburban Nexus Towards One Health Approach (NORHED II Project)	NORAD, Norway (20 Million NOK)	Arctic University of Norway (UiT), Norwegian Institute of Bioeconomy Research (NIBIO), Norwegian Veterinary Institute (NVI) , Malawi University of Science and Technology (MUST)
5	North-South-Alliance for inclusive water, sanitation, and hygiene (All4WASH): NORPART Project	NORAD, Norway (6 Million NOK)	Norwegian University of Science and Technology (NO-NTNU), Kwame Nkrumah University of Science and Technology (KNUST) (GH), The Nelson Mandela African Institute of Technology (NM-AIST), National School of Engineers Bamako (ML), Kampala International University (UG)
6	International Foundation for Science	IFS, Sweden (20, 000 USD)	
7	INTERACT-Africa	European Union (315,000 EUR)	Moi University, Kenya, Mbarara University, Uganda Sokoine University, Tanzania; IFA Yangambi University, DRC Mendel University, Check Republic

Innovative Approaches and Technologies at ACEWM



State-of-the Art Water Research/Teaching Laboratory



High-Tech ICT Infrastructure

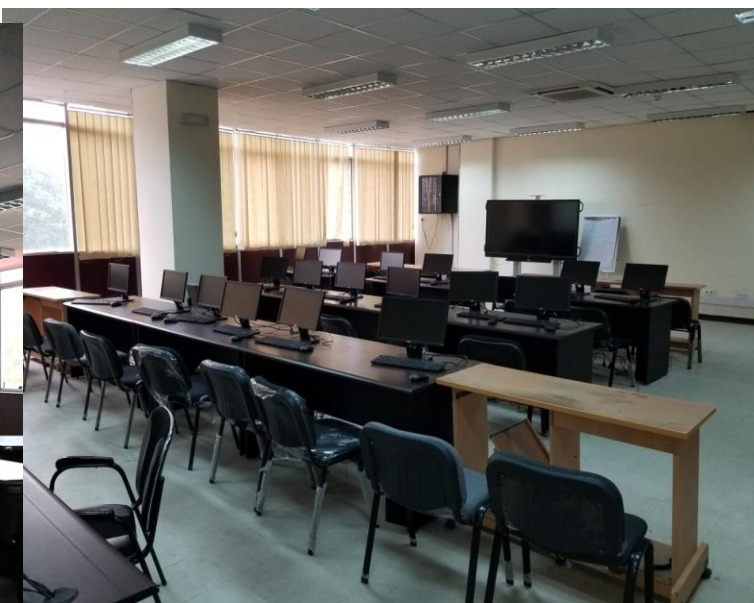
High Quality Video Conferencing Facility



Smart Teaching Classrooms



Smart Computational laboratories

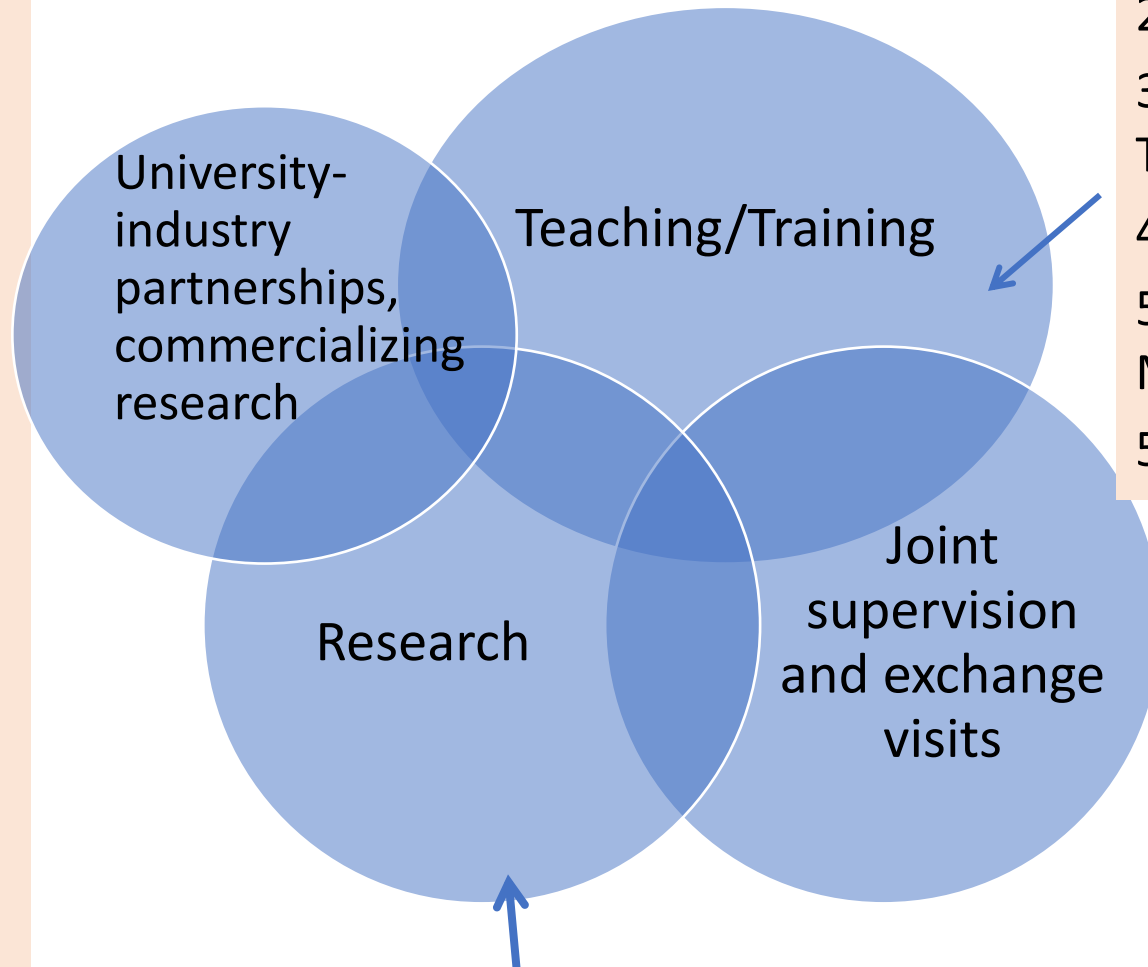


Our Future Plan

- Innovative water and wastewater treatment technologies
- Integrated Watershed Management
- Climate Smart Cities/towns
- Harnessing Earth Observation (EO), Artificial Intelligence for Climate Resilience water management
- Enhancing water storage and reuse
- Wastewater reuse, recycling, resources/energy recovery
- Emerging water contaminants
- Antimicrobial Resistance
- Materials for water purification

Potential Collaboration Areas with Universities in Japan

1. Water Purification
2. Monitoring and restoration of lakes and reservoirs
3. Environmental biotechnology
4. Urban water management
5. Water quality
6. Decentralized wastewater treatment
7. Water harvesting
8. Climate change
9. Water conservation
10. Sanitation
11. Water governance



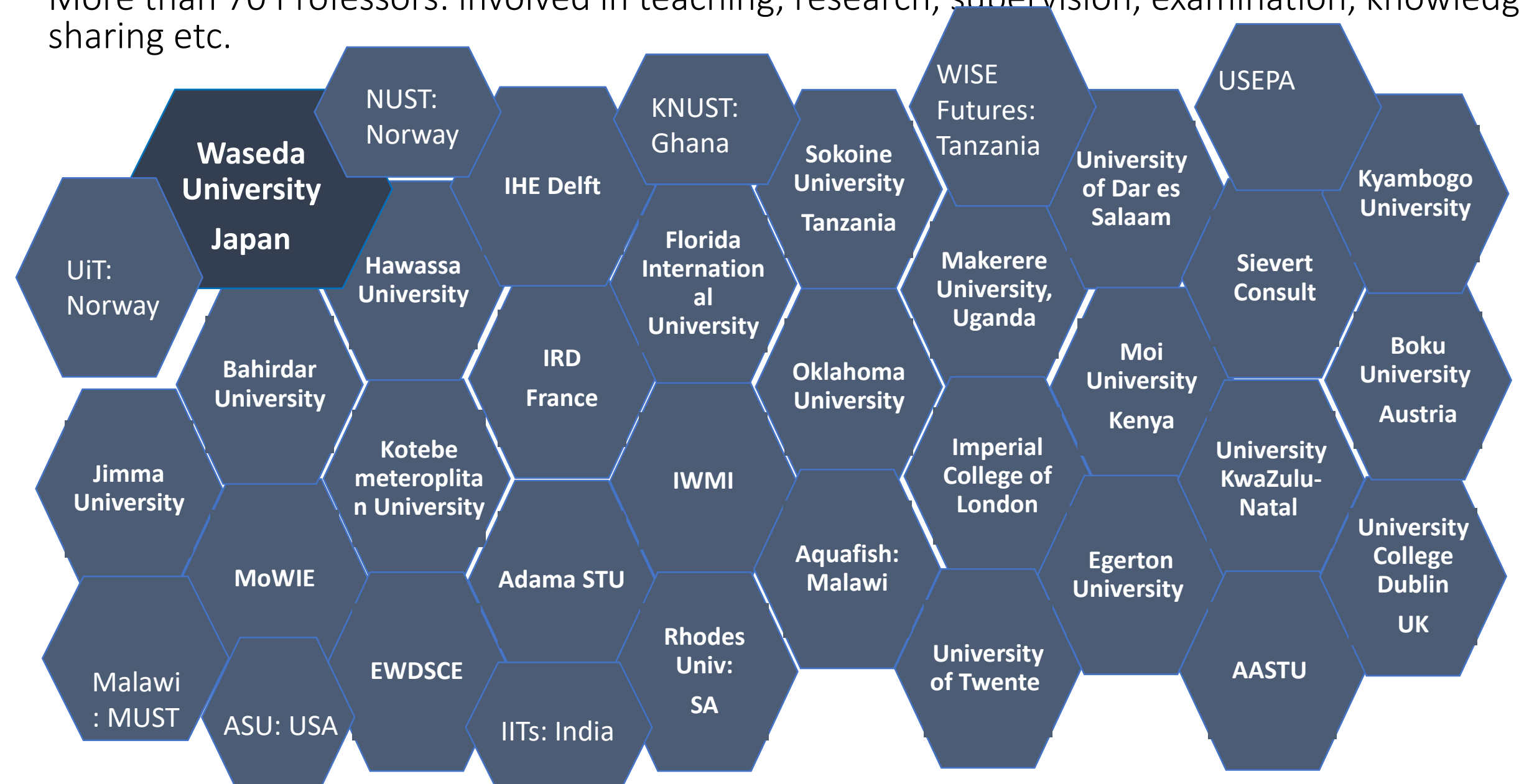
1. Water Supply and Sanitation
2. Water Quality Management
3. Water and Wastewater Technologies
4. Technologies/Management
5. Hydrology and Water Resources Management
5. Water Environment

1. Faculty Exchange
2. PhD/MSc. Students
3. Short course training

Joint research and grant sourcing

Partnerships/Collaborations

More than 70 Professors: involved in teaching, research, supervision, examination, knowledge sharing etc.





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Thank You!

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