

2030WaterSecure

Developing capacity to secure the 21st Century Water Risk



**A joint initiative of Water Future and the
United Nations University**

2030WaterSecure is an innovative vision to developing capacity by combining the state-of-the-art water knowledge with modern, personalized communication tools in order to tackle the 21st century water challenges and facilitate effective implementation of 2030 Water Agenda.

What is Water Security?

"The capacity of a population to safeguard sustainable access to adequate quantities of acceptable quality water for sustaining livelihoods, human well-being, and socio-economic development, for ensuring protection against water-borne pollution and water-related disasters, and for preserving ecosystems in a climate of peace and political stability."

Working definition, UN-Water, 2013

GOOD GOVERNANCE

Adequate legal regimes, institutions, infrastructure and capacity are in place.



TRANSBOUNDARY COOPERATION

Sovereign states discuss and coordinate their actions to meet the varied and sometimes competing interests for mutual benefit.



DRINKING WATER AND HUMAN WELL-BEING

Populations have access to safe, sufficient and affordable water to meet basic needs for drinking, sanitation and hygiene, to safeguard health and well-being, and to fulfill basic human rights.

ECONOMIC ACTIVITIES AND DEVELOPMENT

Adequate water supplies are available for food and energy production, industry, transport and tourism.

ECOSYSTEMS

Ecosystems are preserved and can deliver their services, on which both nature and people rely, including the provision of freshwater.

WATER-RELATED HAZARDS AND CLIMATE CHANGE

Populations are resilient to water-related hazards including floods, droughts and pollution.

PEACE AND POLITICAL STABILITY

The negative effects of conflicts are avoided, including reduced water quality and/or quantity, compromised water infrastructure, human resources, related governance, and social or political systems.

FINANCING

Innovative sources of financing complement funding by the public sector, including investments from the private sector and micro-financing schemes.

Water is central to achieving a larger sense of security, sustainability, development and human well-being. UN-water supports the inclusion of water security in the post-2015 development agenda as part of the Sustainable Development Goals.



Achieving water security requires collaboration across sectors, communities, disciplines and political borders, to reduce the risk of potential conflicts over water resources, between sectors and between water users or states.



What is 2030WaterSecure?

Addressing 2030 Water Agenda



Recognizing that social harmony and economic stability are connected to the security of water quality and availability, **2030WaterSecure** is designed by the Water Future and United Nations University for effective implementation of 2030 Water Agenda.

Enhancing capacity to reduce water risk



2030WaterSecure will bring the 21st Century innovate approaches to support individuals and institutions with demand driven capacity development to reduce Water Security Risk through co-learning of science and practice.

A comprehensive, personalized support



It is a state-of-the-art, personalized, comprehensive capacity development programme that aims to support water security by understanding water related risks in real time, assessing the current and future scenarios and implementing risk management strategies across sectors and scales.

Why do we need 2030WaterSecure?

Currently, investments in physical infrastructure and Knowledge and Capacity building are disproportionate. Investments in Knowledge and Capacity development needs to match that of investment in physical infrastructure for effective implementation of 2030 Water Agenda. Every dollar invested in physical infrastructure, at least an addition 70 cents should be invested in capacity development.

2030WaterSecure aims to improve the knowledge flow from science to practice, bring the scientific advances to application faster, and achieve ‘smarter’ decision making in policy and practice.

Current investment in capacity development needs to increase to a minimum of 80 billion per year to meet requirements.¹

Following Capacity Development Impacts

2030WaterSecure products are designed according to the Theory of Change. A key element is the needs assessment, which identifies capacity gaps of implementers. Yet, bringing scientific advances into practice requires more than just the transfer of the scientific knowledge. Hence, capacity development activities will have a strong focus on case studies while ensuring a two-way communication between science and practitioners in their development. The training courses and workshops will therefore be co-designed.

¹This is based on recent estimates of World Bank on water infrastructure investment of \$114 billion dollars required per year to meet SDG 6 targets and an assumption of at least an additional 70 cents per dollar should be invested in capacity development (Japan Water Forum2006).

2030WaterSecure Products

Online open education for general awareness



A smart online learning platform designed to create awareness among the general public about water security and inform them about the role they can play in achieving the 2030 Water Agenda. It provides a general and international approach to the ongoing challenges of water security.

Interactive learning platform



An interactive learning platform with multiple online courses on specific dimensions of water security and key capacity development ideas designed for early and mid-level water practitioners to help them understand and map risks, assess scenarios and implement risk management.

Advanced Training Programme



Advanced training program for practitioners for formulating policies and tracking progress on the Agenda 2030. This advanced capacity development will foster new and adaptive planning and water system design principles in understanding, assessing water security risk.

Unique Design

Engagement with different stakeholders

Courses streamlined and tailor made for specific Audience.

Co-learning process

A partnership of different stakeholders working together to understand, assess the current water risk and implement policies and solutions to mitigate such risk.

Personalized content

A dynamic demand driven content developed for specific use case

Relevant information

All the resources, methodologies and tools used to develop and deliver content are state-of-the-art and up-to-date

State-of-the-art science

The content is developed by leading experts in science and water policy

Theory of Change

Content based on a clear framework of design, monitoring and evaluation that allows practitioners to measure the change they set out to seek

Authoritative message

Delivers modern and standardized program in capacity development to improve water security



Value Added

Identification of importance of capacity development in water security

Increase in the economic rate of return on water development projects

Improves technical expertise of states

Develop a high degree of prior professional readiness

Democratization of water information

Design training modules specifically for the general public

Generation of globally relevant educational and training materials

Increase in the use of digital technology and expertise

Addressing the importance of water security

Engage and train the next generation of water leaders

Creation of specialized capacity development programs

Identify potential business opportunities for small and medium enterprises

Supports local, state, national and international bodies

Develop a confident, skilled, knowledgeable human capital



Who we are

Water Future of Future Earth is a global platform facilitating international scientific collaboration to drive solutions to the world's water problems. Water Future through its partnerships with a large number of researchers and stakeholders, works together to harvest and synthesize an authoritative scientific knowledge base to support achieving the Sustainable Development Goals (SDG) associated with water.

2030WaterSecure builds on decades of water research under the Global Environmental Change Programs such as DIVERSITAS, International Geosphere Biosphere Programme (IGBP), International Human Dimensions Programme (IHDP), World Climate Change Research Programme (WCRP), and nearly a decade of human-water research under the Global Water System Project (GWSP).

The United Nations University (UNU), established in 1973, is the academic and research arm of the United Nations. It is headquartered in Shibuya, Tokyo, Japan, with diplomatic status as a UN institution. Since 2010, UNU has been authorized by the United Nations General Assembly to grant degrees. It also provides a bridge between the UN and the international academic, policy-making and private sector communities. The United Nations University – Institute for Water, Environment and Health (UNU-INWEH), Hamilton, Ontario, Canada which serves as the “UN think-tank on water”, is collaborating with Water Future in designing 2030WaterSecure.

UNU-INWEH is a leader in research and capacity building, which closely couples high-level policy development. UNU-INWEH's work bridges geographic scales of operations towards synthesizing science into policy guidance and for undertaking policy-relevant knowledge mobilization and enhancement.

2030WaterSecure Executive Team

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