

UNESCO Chair on
Water, Energy and Disaster Management
for Sustainable Development



WENDI
KYOTO UNIVERSITY

WHAT is UNESCO Chair?

The UNITWIN/UNESCO Chairs Programme was established in 1992 to promote inter-university cooperation and networking to enhance institutional capacities through knowledge sharing and collaborative work. UNESCO Chairs are basically located in a university as a chair system where professors and students are learning together to co-produce new ideas and methods for sustainable development. They will play roles of think tanks with human resources as well as tangible resources.

WHY UNESCO Chair on Water, Energy and Disaster Management?

~Characteristics of Kyoto University “WENDI”~

- **Many** water-related professors in Graduate Schools of Science, Engineering, Agriculture, Management, and Global Environmental Studies, etc.
- **Only one** : Graduate School of Energy Science.
- **Unique** : Research Institutes such as Disaster Prevention Research Institute (DPRI), Institute of Advanced Energy (IAE) and Research Institute for Sustainable Humanosphere (RISH) in Uji Campus; Primate Research Institute located in Inuyama; and Field Science Education and Research Center which has forests, experimental basins and aquarium, etc.
- **Area studies** : Graduate School of Asian and African Area Studies (ASAFAS), Center for Southeast Asian Studies (CSEAS).
- **New** : Graduate School of Advanced Integrated Studies in Human Survivability (GSAIS-Shishukan).



WENDI contributes to the Sustainable Development Goals (SDGs).

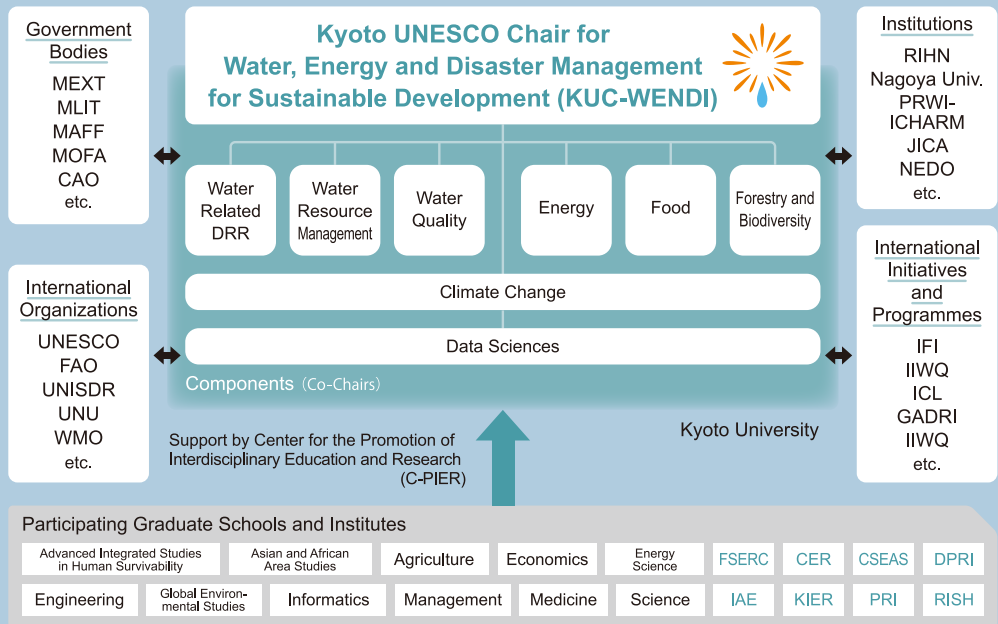
Purpose of WENDI

This Chair WENDI aims to promote multi-disciplinary and holistic approach for research implementation, knowledge transfer and capacity building in the fields of water, energy, and disaster management and linkages to other sectors (food, forestry, biodiversity, climate change and data science). This is done by developing a comprehensive and trans-disciplinary Education for Sustainable Development (ESD) programme for graduate school level to establish 'KU-Model of ESD' and by providing unique international collaborative research using existing UNESCO-Sites including Geoparks, Biosphere Reserves and Cultural, Natural and Mixed World Heritage Sites as the application field.

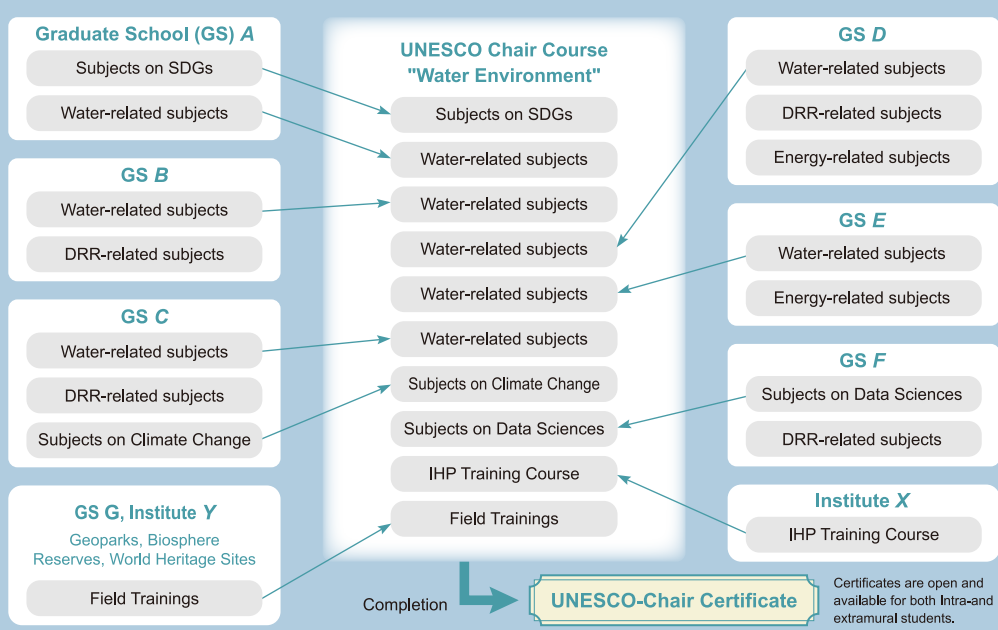
Activities of WENDI

- 1 Establishment of comprehensive, interdisciplinary and systematic graduate educational programme in the target fields of water, energy and disaster management. The programme will be a new model of Education for Sustainable Development (ESD) provided in Kyoto University.
- 2 Identifying courses provided by participating graduate schools and departments to develop certification programmes in water environment, disaster and energy. The completion of the programmes by graduate students or course participants will lead to certifications by the UNESCO Chair.
- 3 The Chair will promote integrated research in the field of water-related disaster risk reduction, water resources management, water quality management, energy management, food science, forestry and biodiversity, climate change, and data sciences. The new scientific knowledge obtained will be shared in the education and training programmes including hands-on training in science-based decision-making.
- 4 The Chair will enhance the networking among participating institutes, schools, departments, researchers, students and national and international organizations such as ministries of Japanese governments and UNESCO, FAO, UNISDR, UNU and WMO. It also connects participants with other universities and their research institutes such as Nagoya University, Research Institute for Humanity and Nature (RINH), ICHARM as well as various international organizations or programmes such as IFI, IIWQ, ICL, and GADRI.
- 5 The Chair will develop digital educational materials such as OCW and MOOCs. The materials will particularly benefit practitioners in the field in developing countries. The materials are developed through regular training courses starting from the water and environmental fields but cover disaster and energy fields in broader perspectives.
- 6 The Chair will organize stakeholder workshops to promote an integrated approach to science and policy making. Previous symposia hosted by Kyoto University includes UNESCO International Symposium on Scientific, Technological and Policy Innovations for Improved Water Quality Monitoring in the Post-2015 SDGs Framework in Kyoto in July 2015, and UNESCO-JASTIP Joint Symposium on Intra-Regional Water Security and Disaster Management in the Philippines in November 2017.

Implementation Structure and Partners



Systematic and Interdisciplinary Courses under the Chair (In case of the water environment course, as an example)



Field Sites Managed by UNESCO and KU

For international collaborative research
For field work training

Distribution of GGN Members



UNESCO
Geo
(Global:119 /
Biosphere
(669
World Her
(Cultural:814, Nat

UNESCO Chair — KU-Model of ESD —

Autonomous and Systematic
study in graduate school level

Field trainings

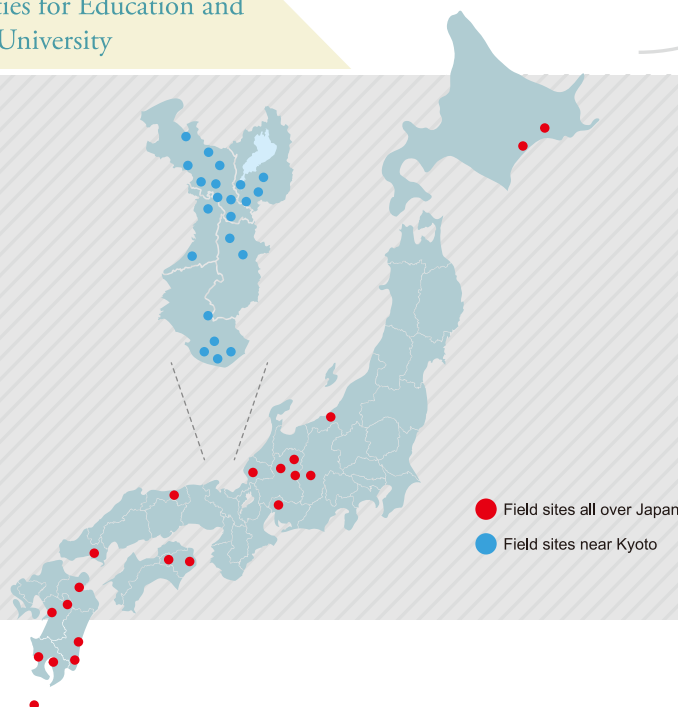
Acknowledging

Sharing of the implement

Seeking for measure

Supporting the human res
view of tackling various iss

Off-Campus Facilities for Education and Research in Kyoto University



● Field sites all over Japan
● Field sites near Kyoto

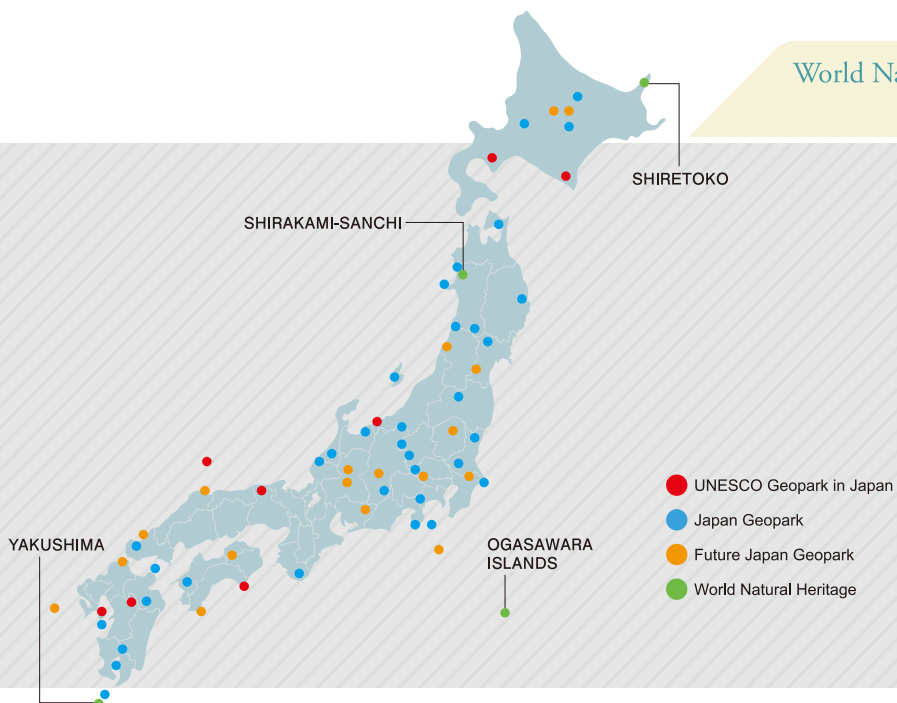
KU's N in and out

European Cent
North Americ
Washing
ASEAN Cent

World Natural Heritages and Geoparks in Japan

0 Sites

parks
 (Japanese:43)
 Reserves
 sites)
 itage Sites
 (ural:203, Mixed:35)



/ Internships

the challenges

tations around the world

es towards solutions

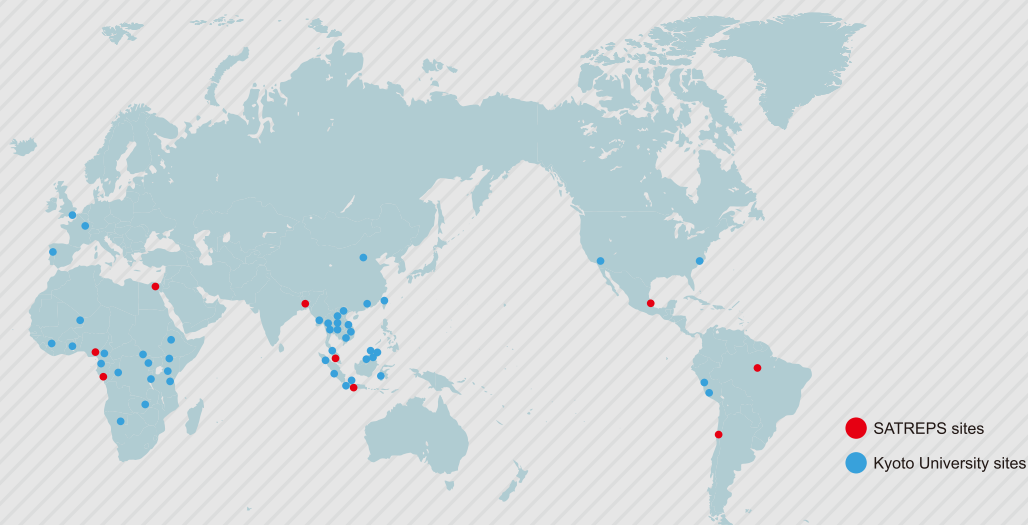
ource development with a
 ues in the current society.

Challenges
 Tackling
Common global risks and issues
 by focusing on
**Water
 Energy
 Disaster**
 and linkages to other sectors
 (food, forestry, biodiversity,
 climate change and data science)

57 overseas sites + 9 SATREPS Sites

network t of Japan

er at Heidelberg
 an Center at
 on D.C.
 er at Bangkok



Recent Events and Core Members of WENDI

Events

8-9 December 2017

International Symposium on Utilization of Field Sites in Research and Education (FREE2017)
Venue: Symposium Hall, International Science Innovation Building (West), Kyoto University

13 February 2018

Kyoto UNESCO Chair Special Seminar on Water Energy and Disaster Management (WENDI)
Venue: International Conference Hall III, Kyoto University Clock Tower Centennial Hall

July 2018

Kyoto UNESCO Chair Kick-off Meeting in Kyoto University

October 2018

UNESCO-JASTIP Symposium in Kuala Lumpur, Malaysia



FREE 2017



Signing of UNESCO Chair WENDI

Members

Chair Holder : Kaoru Takara (Hydrology, Disaster Risk Management)
Dean, Professor, Graduate School of Advanced Integrated Studies in Human
Survivability

Co-Chairs : Yasuto Tachikawa (Water-related Disaster Management)
Professor, Graduate School of Engineering

Shigenobu Tanaka (Water Resources)
Professor, Disaster Prevention Research Institute

Yosuke Yamashiki (Water Quality)
Professor, Graduate School of Advanced Integrated Studies in Human
Survivability

Keiichi Ishihara (Energy Science)
Professor, Graduate School of Energy Science

Hideaki Ohgaki (Energy)
Professor, Institute of Advanced Energy

Eiji Nawata (Food Security)
Dean, Professor, Graduate School of Agriculture

Mamoru Kanzaki (Forestry and Biodiversity)
Professor, Graduate School of Agriculture

Shigeo Yoden (Climate Change)
Professor, Graduate School of Science

Mitsunori Hatayama (Data Sciences)
Professor, Disaster Prevention Research Institute

Secretariat : Takahiro Sayama (Hydrology)
Associate Professor, Disaster Prevention Research Institute

Florence Lahournat (Cultural Anthropology)
Lecturer, Disaster Prevention Research Institute



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UNESCO IHP-Japan Website : <http://hywr.kuciv.kyoto-u.ac.jp/ihp/japan>



United Nations
Educational, Scientific and
Cultural Organization



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