



UNITED NATIONS
Office for Outer Space Affairs



The Space4Water Project

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Contents

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- ❑ Key actors, features and resources
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- ❑ Space4Water community outlook
- ❑ Get involved

The Partners



UNITED NATIONS
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Prince Sultan Bin Abdulaziz
International Prize for Water

Signed agreement on the cooperation



space4water
PORTAL

Project start and launch



New agreement until 2026 – incl. Community building

Project Pillars



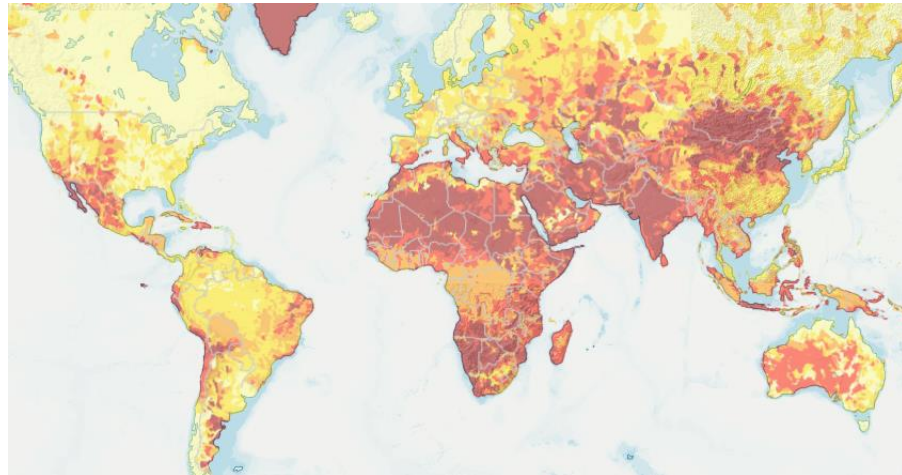
❑ 3 pillars of the Space4Water Project

- ❑ Conference Series
- ❑ Space4Water Portal
- ❑ Community Building

❑ Space4Water Portal

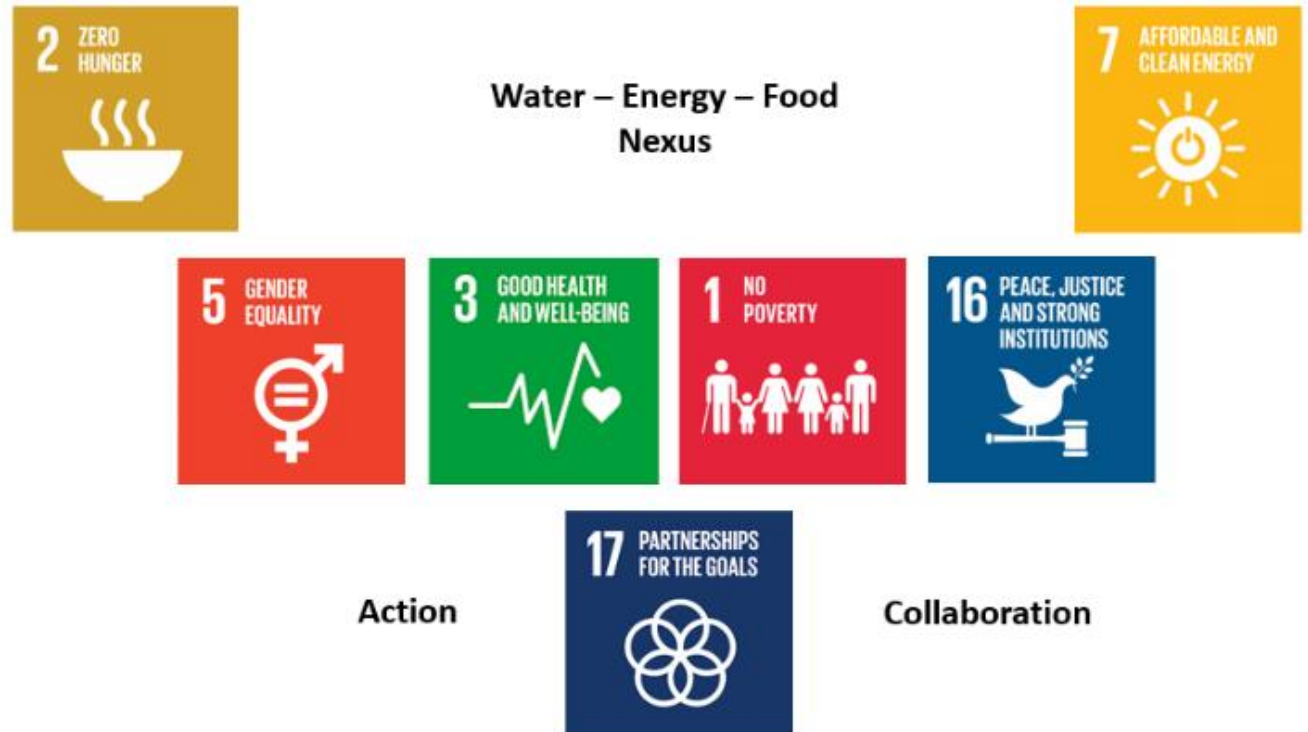
- ❑ **Multi-stakeholder** platform for **interdisciplinary knowledge exchange**
- ❑ Making information on space solutions and technologies for water-related topics **accessible**
- ❑ **Capacity-building** platform
- ❑ Portal for expert **communities**, including those from developing countries

Why Space4Water



Over 2 billion people live in countries experiencing high water stress.

(United Nations, 2018)



Actors, Features & Resources



Stakeholders
(67)



Projects & Initiatives
(14)



Software & Tools
(22)



Activities & Opportunities
(31)



www.space4water.org



Publications
(72)



Articles & Success Stories
(40)



Meet Professionals
(12)



Meet Young Professionals
(16)



Training Material & Webinars
(88)



Events
(201)



NEXT GEOSS
Dataset Search



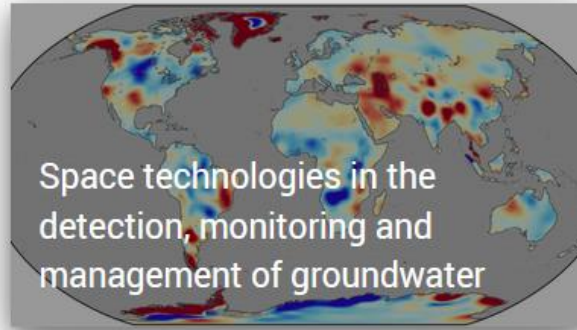
Glossary & Ontologies
(1146)



Local Perspectives & Case Studies
(3)

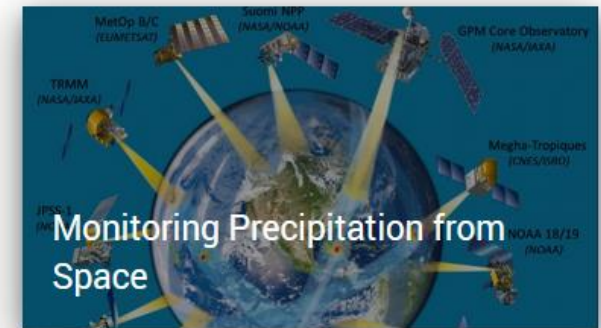


Partners



Articles & Success Stories

40





Stakeholders

67



IHE Delft Institute for Water Education



About IHE Delft Institute for Water Education

IHE Delft Institute for Water Education is the largest international graduate water education facility in the world and is based in Delft, the Netherlands. Since 1957 the Institute has provided water education and training to 23.000 professionals from over 190 countries, the vast majority from Africa, Asia and Latin America. Also, numerous research and institutional strengthening projects are carried out in partnership to strengthen capacity in the water sector worldwide. Through our overarching work on capacity development, IHE Delft aims to make a tangible contribution to achieving all Sustainable Development Goals in which water is key.

Shared Resources

Capacity Building and Training Material

Programming for Geospatial Hydrological Applications

QGIS et Applications en Hydrologie

Webinar: Groundwater for Water Security in Africa

FAO CB4WA: Use of FAO WaPOR Portal

Water Productivity and Water Accounting using WaPOR

Introduction to Modflow and Model Use

Data Sharing for Water Sector Organisations using Spatial Data Infrastructures

Computational Hydraulics

Online Course on Remote Sensing for Agricultural Water Management

Water Quality Assessment

Water Accounting + Online Training

Afri Alliance Knowledge Hub

Data Sharing for Water Sector Organisations using Spatial Data Infrastructures

Vision

IHE Delft Institute for Water Education envisions a world free of poverty and injustice, in which people manage their water and environmental resources sustainably and equitably.

Mission

IHE Delft works in partnership to strengthen capacity in the water sector to achieve global sustainable development.

Ambition

Through our overarching work on capacity development, IHE Delft aims to make a tangible contribution to achieving all Sustainable Development Goals in which water is key.

Education

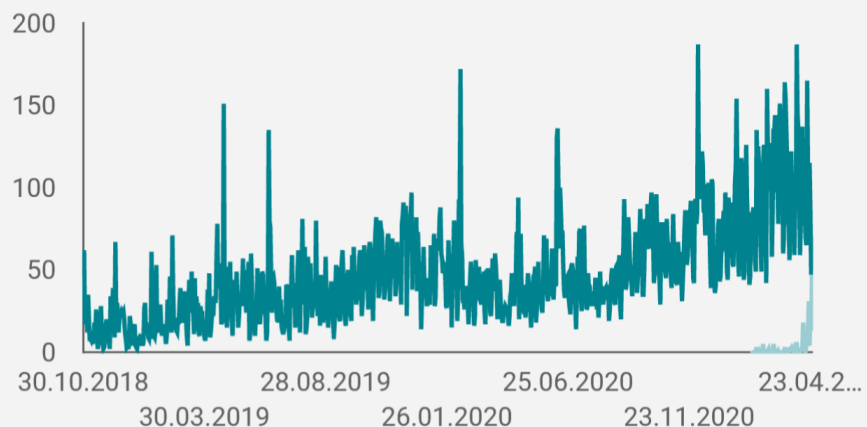
IHE Delft offers a wide range of accredited educational programmes (MSc), tailor-made training & online training courses for engineers, scientist and managers working in the water, environment and infrastructure sectors. IHE Delft is implementing its educational activities with partner institutes.

Research and Innovation

The Institute's research activities focus on and contribute to the knowledge base concerning the water environment, and therefore

Statistics

How are site sessions trending?



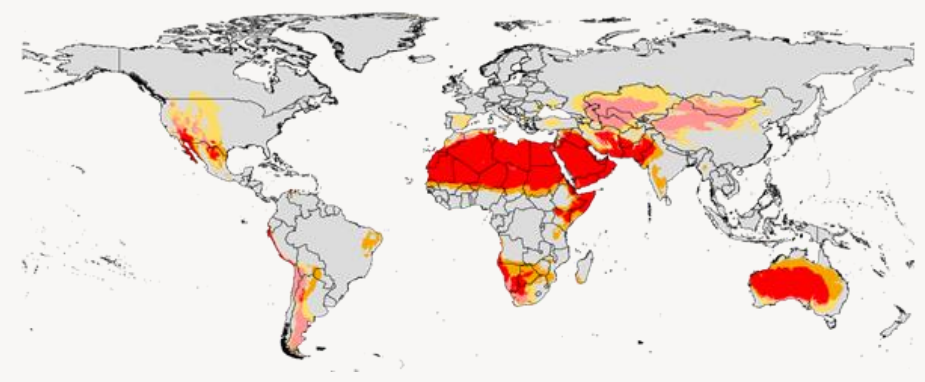
No. of sessions and users accessing Space4Water grow

> 150% in 2021

Access > 100 new resources/year

Type of Content / Number of Content published	As at 31 Dec 2018	As at 31 Dec 2019	As at 31 Dec 2020	As at 31 Dec 2021
Stakeholders	23	37	48	62
(Young) Professionals	-	4	11	24
Articles	6	16	22	35
Interviews	-	3	10	23
Activities /Opportunities		1	10	25
Publications	10	25	43	77
Software	4	15	18	21
Projects	6	6	10	12
Training Material	6	22	33	79
Events	36	79	92	155
TOTAL	91	208	297	513

Space4Water Portal Outlook



- ❑ French version of the Portal (most important resources)
- ❑ Gaps: Local Perspectives / Case Studies
- ❑ Improved visualisation and filtering for an explorable body of knowledge
 - ❑ e.g. Köppen-Geiger climate map of the world for the regional focus filtering
- ❑ Traversable body of knowledge (glossary / taxonomy / ontology)
- ❑ Search for collaborators
- ❑ Member's area for stakeholders and professionals



Community Building





Communities of Practice

“Groups of people who share a concern, a set of problems, or a passion about a topic, and who deepen their knowledge and expertise in this area by interacting on an ongoing basis.”

- Wenger et al. (2002, p. 4)

Space4Water – 3 years of community building

Successes

- ✓ **Integrative:** Stakeholders and professionals sharing information and knowledge (local, regional and global level)
- ✓ **Inclusive**
 - ✓ Geographic **diversity** and gender balance
 - ✓ Various **formats and skill levels:** Science communication for non-scientist users via articles, success stories and interviews
- ✓ Constantly **growing** user and resource base
- ✓ Covering **relevant thematic** aspects on space technologies for water resource management

Challenges

- ❑ **Increase Interactivity** among actors
- ❑ Administrative efforts (lack of **standardisation**, consent for publication)
- ❑ **Encourage participation** (Missing incentives for calls to collect users needs & assess gaps)
- ❑ **Transfer technology / learning** and develop **new solutions**
- ❑ Capacity building perspective (funding)
- ❑ Committee for **Quality Assurance** (impartiality of the UN)
- ❑ Matchmaking

Next Steps: Space4Water Community Building

- ❑ Stakeholder Newsletter Issues
- ❑ Participatory workshop for indigenous women on their roles and responsibilities related to water - 26 October 2022 (tbc)
- ❑ 1st Stakeholder meeting: 27-28 October 2022 in Vienna, Austria



Sign up

Future

- ❑ Collect user needs within the water-related sectors towards the space sector – Framework
- ❑ We will speak more about this on Friday in the panel discussion on user needs

Join Space4Water

Register as a stakeholder



Become a featured (young) professional



Join Space4Water

Submit a case study



Write an article





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Thank you

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