



# space4water

P O R T A L

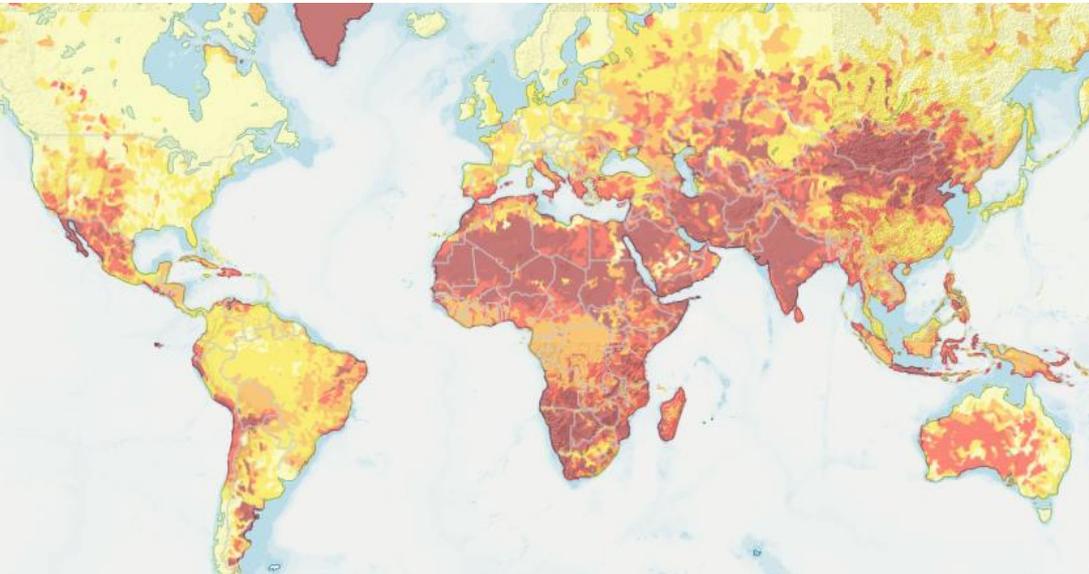


UNITED NATIONS  
Office for Outer Space Affairs

[www.space4water.org](http://www.space4water.org)

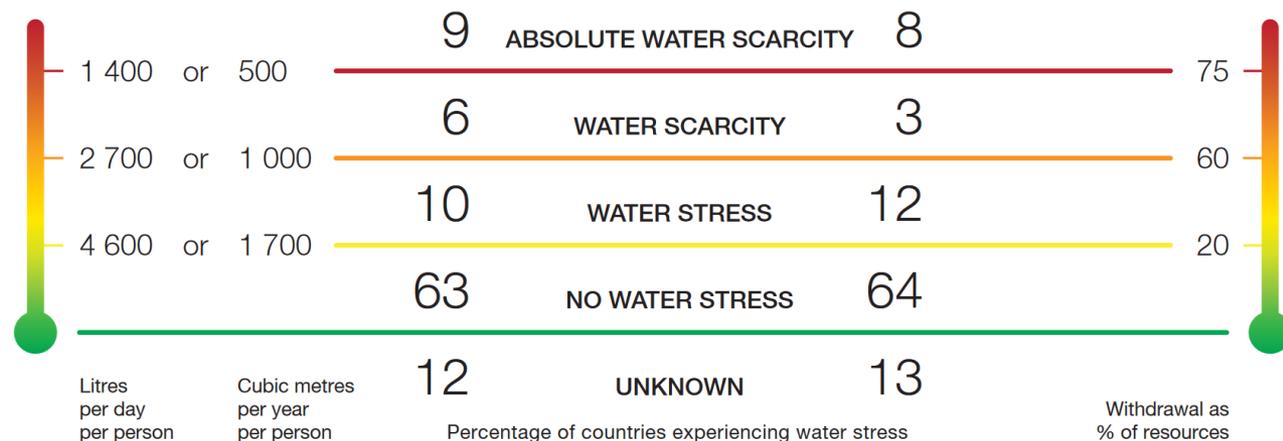


@UNOOSA  
#Space4Water



Over 2 billion people live in countries experiencing high water stress. ([UN, 2018](#))

A third of the world's biggest groundwater systems are already in distress ([Richey et al., 2015](#)).





# Space Technologies for Water - Sustainable Development Goals –



Mapping of water-borne diseases



- Groundwater detection
- Water quality monitoring
- Integrating EO data and national surveys e.g. for identifying areas of high pollution / risk for population
- Water body extraction / surface water mapping



- Meteorological Observations
- Measuring ice-thickness



- Water quality monitoring e.g. chromophoric dissolved organic matter / algae blooms
- Decision making for ecosystem conservation
- Oil spill mapping



- Sand storms
- Sediment re-deposition
- Drought mapping
- Vegetation indices



Action & Collaboration



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## Mission (WHO / WHAT / WHY)



UNITED NATIONS  
Office for Outer Space Affairs



Prince Sultan Bin Abdulaziz  
International Prize for Water



- A ***multi-stakeholder platform*** for ***interdisciplinary knowledge exchange***
- Making ***information*** on space solutions and technologies for water-related topics ***discoverable and filterable***
- A ***capacity-building platform***
- A portal for ***expert communities, including those from developing countries***



# Resources & Functionality



Stakeholders



Software / Tools



Projects / Initiatives



Training Material



Publications



Ontologies /  
Taxonomies /  
Glossary



Events



Articles & Stories



# Meet a Professional



Rita Colwell  
*Distinguished University  
Professor - University of  
Maryland College Park*



Kristine M Larson  
*Professor Emerita,  
Department of Aerospace  
Engineering Sciences,  
University of Colorado*



Marie-Françoise Voidrot  
*Europe Director of the  
Innovation Program at Open  
Geospatial Consortium*



Murugesu Sivapalan  
*Professor of Civil and  
Environmental Engineering*



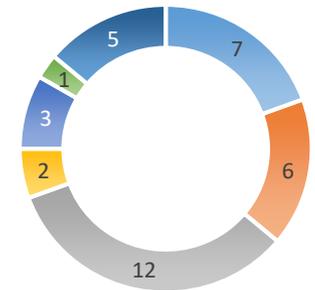
Alain Gachet  
*CEO and Founder of RTI*



# Content

Type of Content	as of 31 Dec 2018	2019 content	As of 31 Dec 2019
Stakeholders	23	14	37
Professionals	0	4	4
Interviews with Professionals	0	3	4
Articles / Stories	6	10	16
Publications	10	15	25
Software / Web apps / Tools	4	11	15
Projects / Missions / Initiatives / Community Portals	6	0	6
Capacity Building and Training Material	6	16	22
Events	36	43	79
<b>TOTAL</b>	<b>91</b>	<b>117</b>	<b>208</b>

Stakeholders by type



- Academia
- Government
- Intergovernmental Organization
- Non-for Profit Organization (NPO)
- Non-Governmental Organization (NGO)
- Private Research Institute
- Private Sector and Industry



# Outlook



VISUALIZATION &  
INTERACTION WITH  
TAXONOMIES / GLOSSARY  
TERMS



(META)-DATA SEARCH –  
NEXT GEOS PORTAL  
INTEGRATION



INITIATE THE  
DEVELOPMENT OF  
WATER DATASETS



MAPS



INTEROPERABILITY WITH  
OTHER DATA PORTALS  
E.G. ESA SDG CATALOGUE



CONFERENCES &  
STAKEHOLDER MEETINGS



## Get Involved

- Reach out & contribute
- Share information on your
  - Interests or user requirements
  - Open Data Portals
  - Solutions
- Experts committee for content review & quality control
- Announcements of Activities & Opportunities
  - Calls
  - Nominations
  - Funded Research Positions
  - etc.
- Collaborate!!!

# THANK YOU

[www.space4water.org](http://www.space4water.org)

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