



The International Water Security Network

A five year (2013-2018) programme
funded by Lloyd's Register
Foundation

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Overall aims of this project are threefold:

- To continue the long-term process of building a world class science base for issues related particularly to urban and regional water security including transboundary water governance, public participation, water sensitive urban design, water quality management, socio-legal innovations, public and popular education, etc.
- To foster stronger links between and among consortium members, who are already recognised as regional centres of excellence in various aspects of water management, as well as second order links to allied consortia (a “network of networks”)
- To train up a cadre of 40+ new postgraduates (MSc & PhD) with specialisms in key areas of water security



An interdisciplinary team:

- Geographers
(physical & human)
- Civil engineers
- Atmospheric
scientists
- Legal scholars
- Hydrologists
- Urban design and
planning
- Ecologists
- Modellers
- Bio & microensing
for urban water
management

A team that reaches beyond the academy:

- Strong links to worlds of industrial and regulatory
practice
- A “network of networks”



The partner institutions

- ❖ The University of the West of England (UWE), Bristol, UK
- ❖ Monash University South Africa (MSA), Johannesburg
- ❖ The University of Arizona (UA)



IWSN activities and principals

Project Management (UWE)

- ❖ Chad Staddon, IWSN Project Director
- ❖ Enda Hayes, Project Manager

Towards Urban Water Security (UWE)

- ❖ Chad Staddon, Principal Investigator
- ❖ Enda Hayes, Co-Principal Investigator

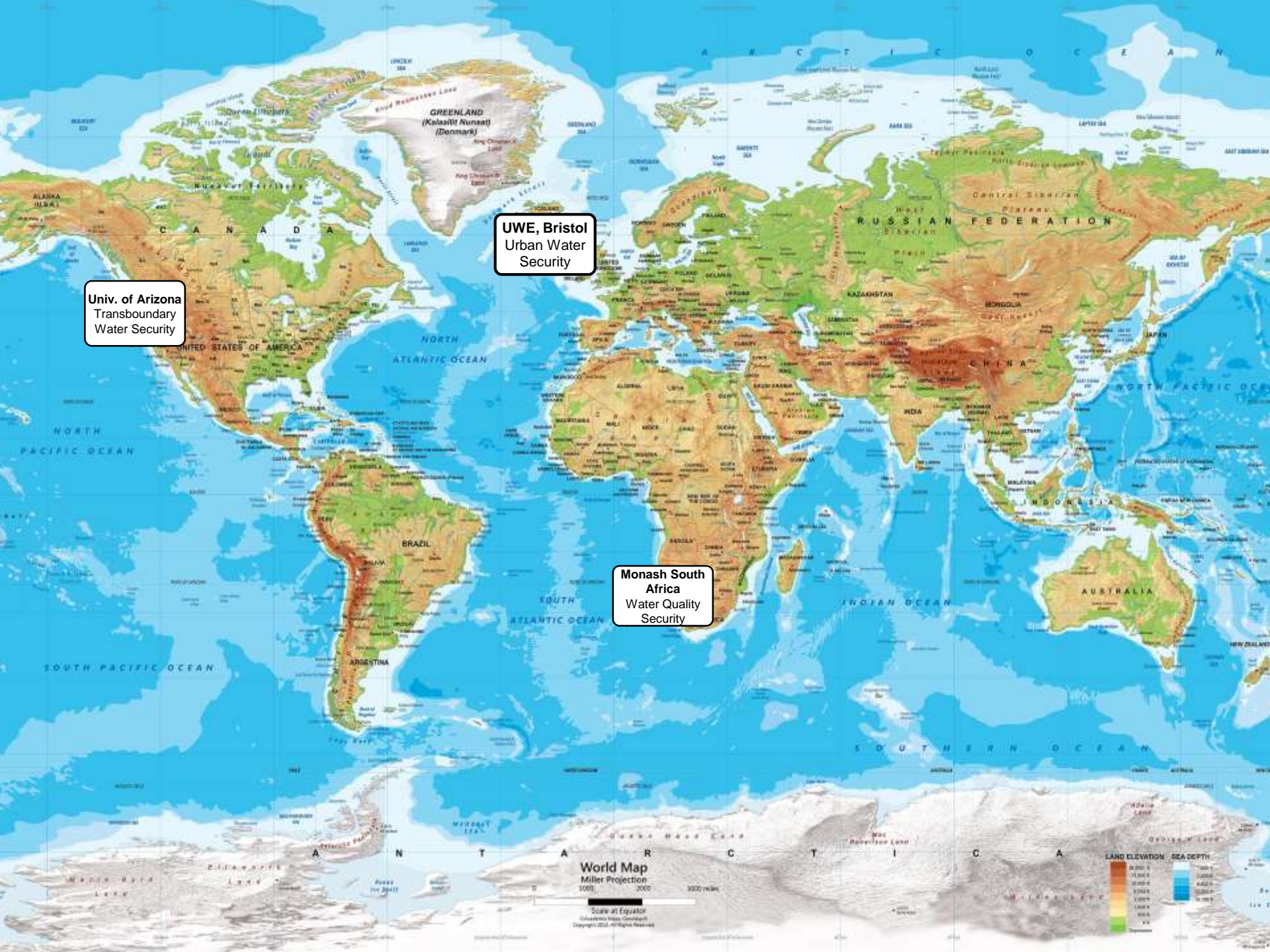
Strengthening Transboundary Water Security (UA)

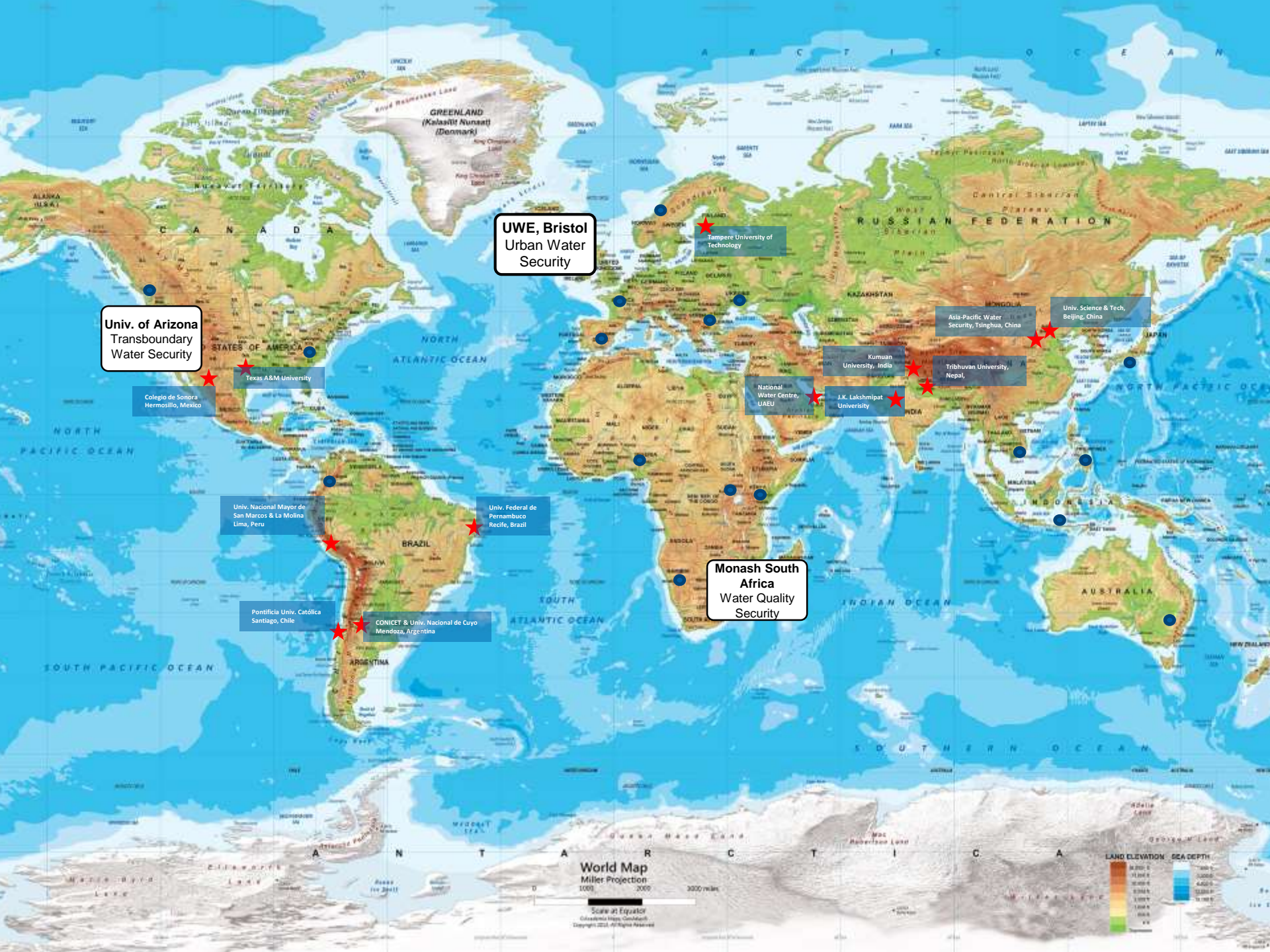
- ❖ Robert G. Varady, Principal Investigator
- ❖ Christopher A. Scott, Co-Principal Investigator

Improving Water Quality Security (MSA)

- ❖ Bimo Nkhata, Principal Investigator







UWE, Bristol
Urban Water
Security

Univ. of Arizona
Transboundary
Water Security

Colegio de Sonora
Hermosillo, Mexico

Texas A&M University

Univ. Nacional Mayor de
San Marcos & La Molina
Lima, Peru

Pontificia Univ. Católica
Santiago, Chile

CONICET & Univ. Nacional de Cuyo
Mendoza, Argentina

Univ. Federal de
Pernambuco
Recife, Brazil

Monash South
Africa
Water Quality
Security

National
Water Centre,
UAEU

J.K. Lakshmi
University

Kumuan
University, India

Asia-Pacific Water
Security, Tsinghua, China

Tribhuvan University,
Nepal

Univ. Science & Tech,
Beijing, China



This project is funded by **Lloyd's Register Foundation**, a charitable foundation helping to protect life and property by supporting engineering-related education, public engagement and the application of research.

International Water Security Network

Water security is defined by the **UN** as "the capacity of a population to safeguard sustainable access to adequate quantities of and 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."

Water security is an ever more important global issue, of relevance and importance to individuals, businesses, governments and organisations.

Latest news

[The Rugeyeo water tap](#)
[IWSN visits Reno to discuss mountain water towers](#)
[The marvel of drinking water](#)
[IWSN on the move in South America](#)
[Introducing Rossi Taboada](#)

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WP 2: Urban Water Security

Work Strand 2.1 – Urban Water Services

Work Strand 2.2 – Inshore and Intertidal Marine Environments

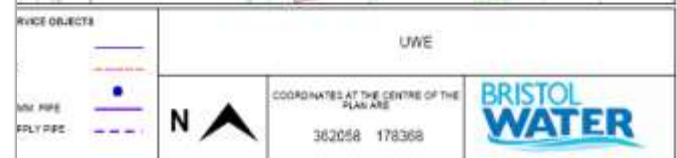
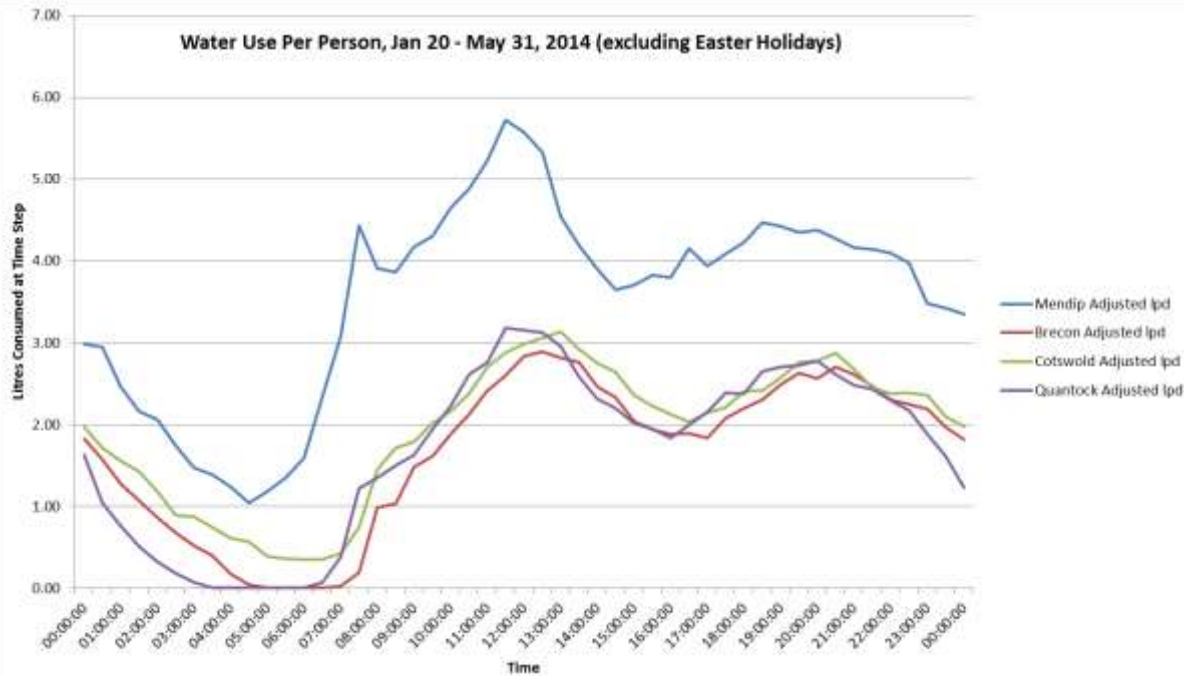
Work Strand 2.3 – The Water-Energy-Carbon Nexus

Work Strand 2.4 – UWE Global Water Security Programme





Water Use Per Person, Jan 20 - May 31, 2014 (excluding Easter Holidays)



Partnerships for the Coast

By: [Natasha Bradshaw](#) on 8th Dec 2015

In many countries, there tends to be a higher concentration of people [living at or near the coast](#). The UK coastline is extensive, around 18,000km bordering two regional seas: the Greater North Sea (approx. 4,000km) and the Celtic Seas (approx. 14,000km) of the NE Atlantic basin. In the UK, nobody lives more than 115km from a coast. Britain is a maritime nation with a deep history of connections to the sea for trade, transport and tourism.

Coastal communities enjoy the coast and sea for the landscape, [health](#) and amenity benefits this brings. Coastal habitats are dynamic and often host rare species which exist in the interface zone between the freshwater and marine

environments. These areas are fragile, but can be resilient if natural coastal processes are allowed the necessary flexibility, and human communities are similarly adaptable and resilient.



Somerset Coast, Severn Estuary/Bristol Channel

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[IWSN researchers contribute to new book on ecological restoration](#)

[The drought – crisis or opportunity?](#)

[IWSN Africa co-hosts Southern African drought seminar](#)

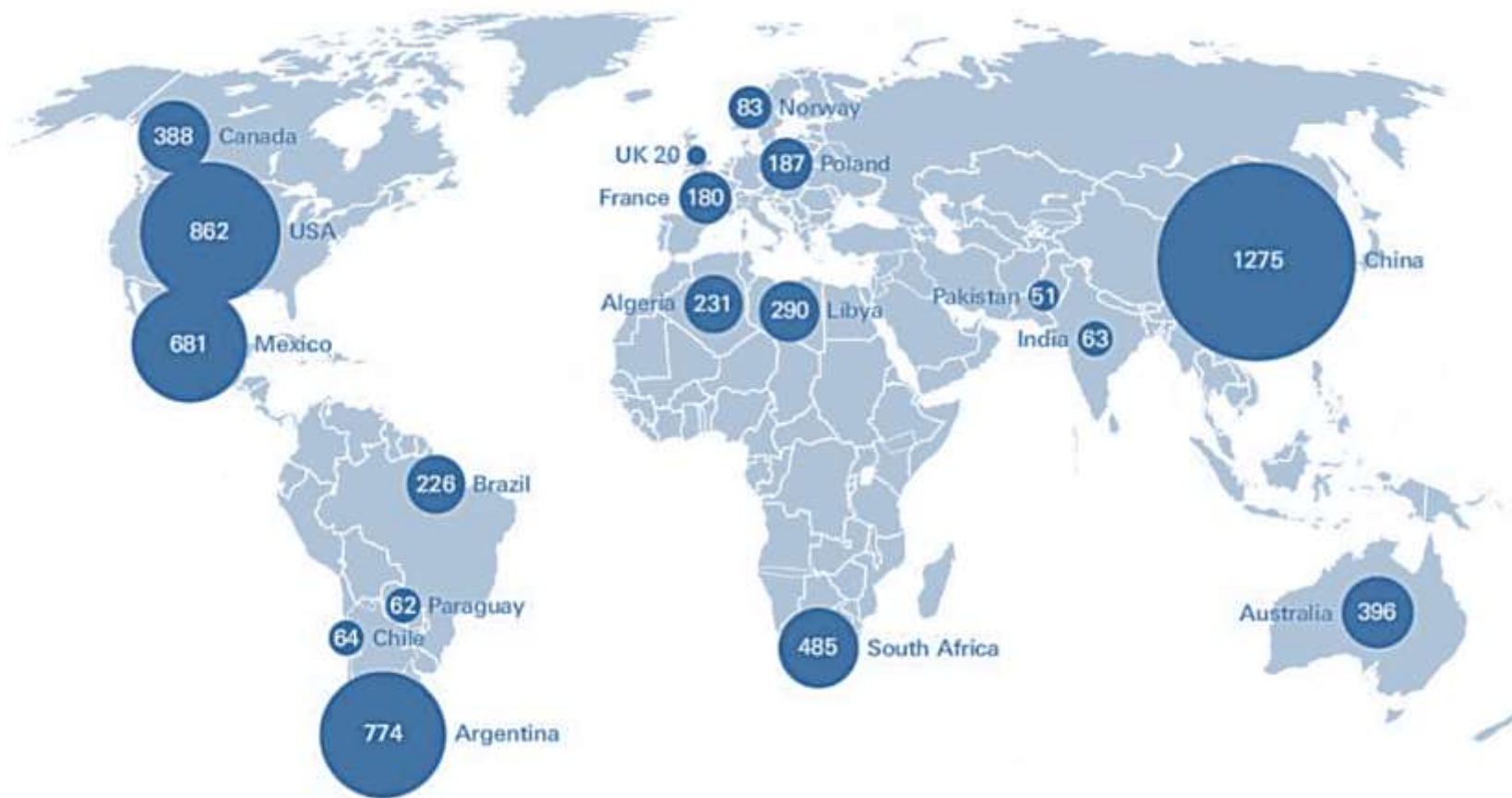
[Resilience in the face of India's recurring droughts](#)

[New video on ecosystem services and biodiversity](#)

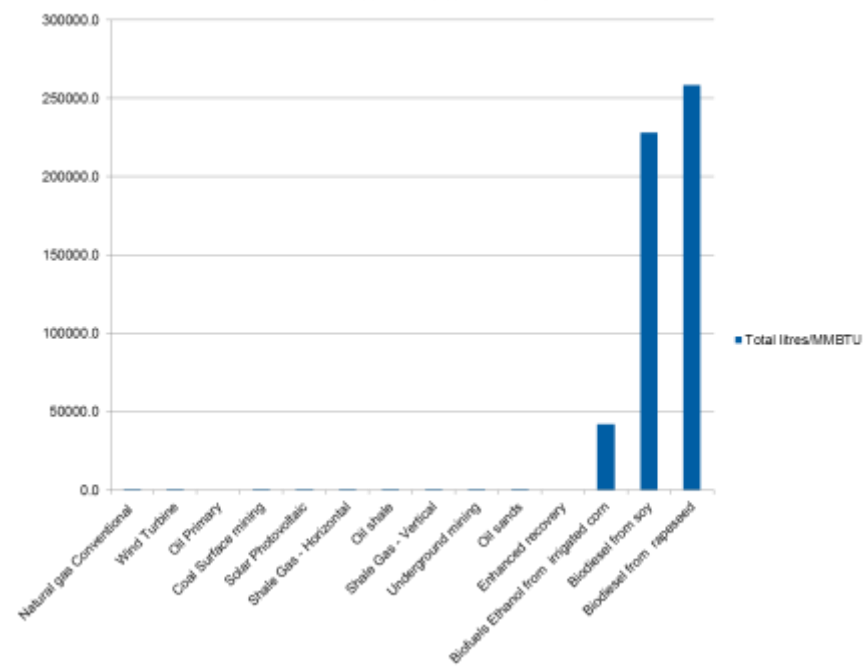
[IWSN funds four more MPhil students in South Africa](#)

[After the race to the bottom: water supply challenges in the Ica Valley, Peru](#)

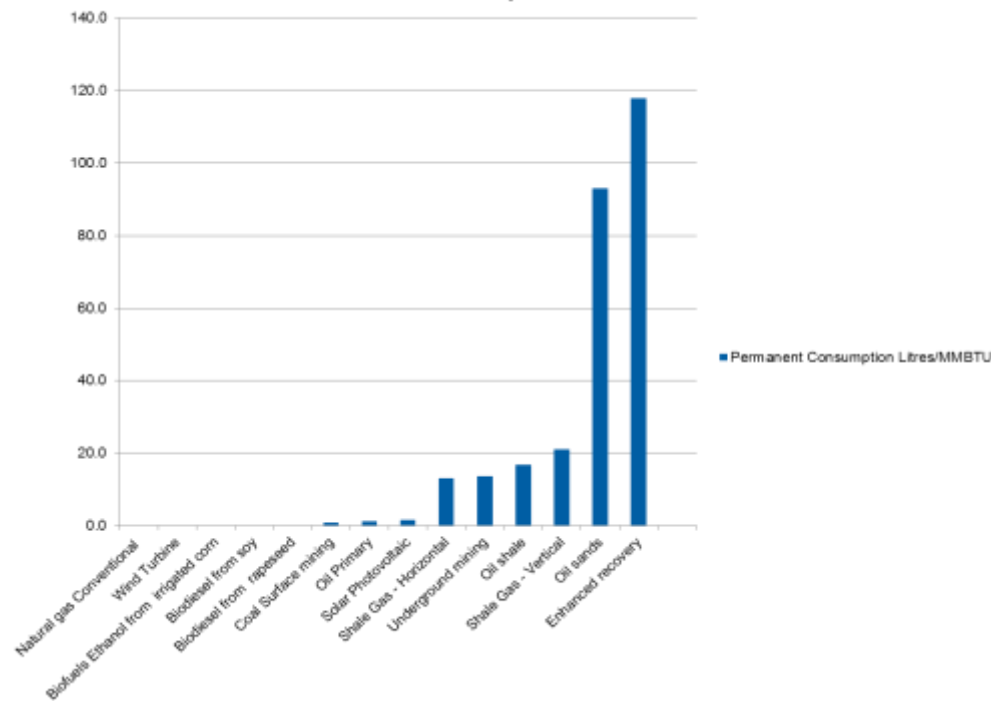
Archives



Total litres/MMBTU



Permanent Consumption Litres/MMBTU



New video shows how UWE helps African communities access safe water supplies

on 24th Jun 2015

(This news story was originally issued by the University of the West of England on 19 June 2015)

Academics and students from the University of the West of England (UWE Bristol) have been contributing to a research programme that helps to provide African communities with access to safer water supplies as part of the [UWE–Africa Water Security Programme](#) now in its third year and operating in a number of African countries.

The team has recently participated in the [creation of a video](#) that gives insight into the work of the programme and how the students who go to Africa on placement are enriched as they see how their work is making a real difference.

Professor Chad Staddon said, "Geography and Environmental Management staff and students have worked on this programme in Uganda since 2011. We are able to provide students with the opportunity to get involved in a live project that enhances their learning and in many cases forms an integral part of their own honours research projects.

"There is plenty of groundwater in many parts of Africa



Latest news

[IWSN researchers to discuss water and marine security at Bristol Bright Night](#)

[Report on the 2015 National Youth Water Summit in South Africa](#)

[Water security workshop in Hermosillo, Mexico](#)

[Nexus dialogues on global change in the Peru-Ecuador transboundary region of Piura](#)

[Meeting the Deputy Minister of Water and Sanitation 'inspiring' for IWSN students](#)

[IWSN students host an academic debate with first year social science students](#)

[IWSN students participate in the 2015 Insaka Research Symposium](#)

[United Nations recognises South Africa's water education practices](#)

Archives

[September 2015](#)

[August 2015](#)

[July 2015](#)

[June 2015](#)

[May 2015](#)

[April 2015](#)





Profiles of students funded by the International Water Security Network



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Phase 2: January 2019 to December 2021

- £1.2 million over three years
- UWE-based secretariat
- Enabling structures:
 - PGRs
 - Postdocs
 - Visiting scholars
 - Events around the world
- Key themes:
 - demand management science and engineering
 - UWE Global Water Security Programme




www.watersecuritynetwork.org
www.twitter.com/water_network

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For more information, see: www.lrfoundation.org.uk

With additional thanks to the

Inter-American Institute for Global Change Research (IAI)

and

AQUASEC, the IAI Center of Excellence for Water Security in the Arid Americas

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