The graphic features a central white circle containing text, surrounded by thick, expressive blue brushstrokes that form a circular shape. The background is a light blue gradient.

NATIONAL

WATER
WEEK

Bring Water into Focus

The image features a central photograph of a person's hands holding a clear glass filled with water. A dynamic splash of water is captured mid-air, falling into the glass. This central scene is framed by a large, circular graphic composed of two concentric rings: an inner ring in a medium blue and an outer ring in a darker blue. The background of the entire image is a light, solid blue. Overlaid on the center of the image is the text "BRING WATER INTO FOCUS" in a bold, white, sans-serif font, arranged in four lines.

**BRING
WATER
INTO
FOCUS**



The Australian Water Association acknowledges the Traditional Custodians across Australia, where we live, work and play, for their deep connection to our precious waters and land. We pay our respect to Elders past and present, and the ancestors who have cared, protected and nurtured Country for many thousands of years.



George Hill

**Civil and Water Engineer and Water Skills
Network Manager, Arup**

Young Water Professionals

Who are we?
How can you get involved?

Dr Leslie 'Phil' Duncan

**Galambany Professorial Fellow
Canberra University**

**Australian Principal Aboriginal Cultural Advisor
Beca Hunter H20**



Acknowledgement of Country



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Nothing About Us Without Us

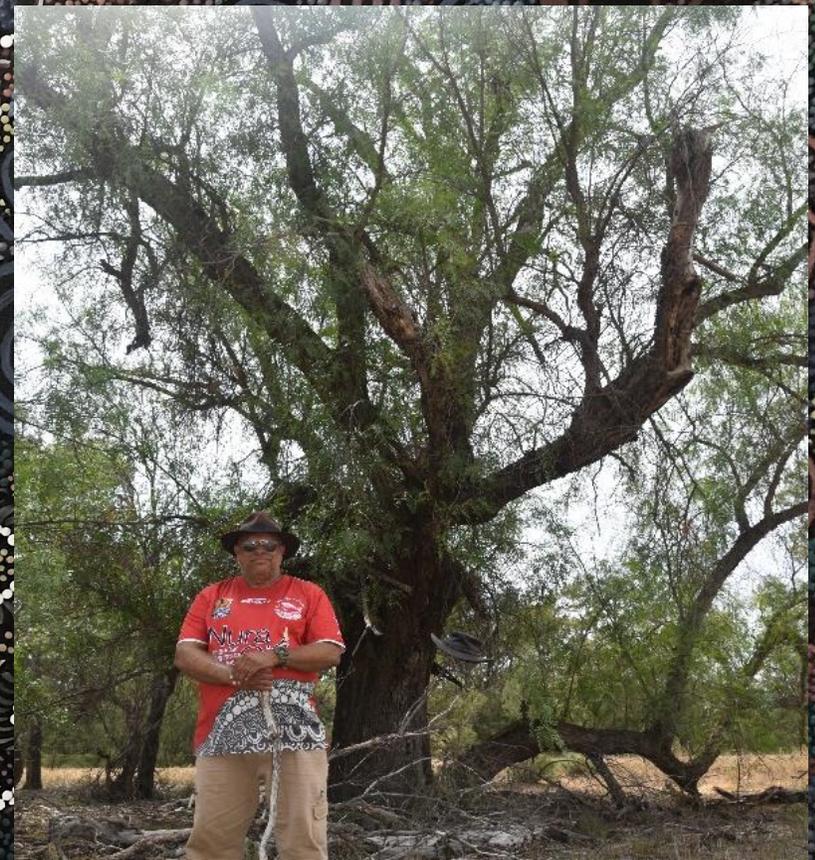


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Small text caption below the photograph of the elderly man, likely identifying him as a key figure in the field of water science or environmental management.



Connection to Country



Alex Cherney



My Dreaming Dhinawan My Mother

“The Dreaming is the dimension of sacred eternal time when Ancestors Spirits came up out of the earth & down from the sky to shape the land, rock, rivers, mountains, forests and deserts. The Spirit Ancestors created all the people, animals & plants that were to live in the country & laid down the laws, customs and codes of conduct that Aboriginal people lives were to follow”





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Tracey Willingham

Manager, Water Literacy and Education
Sydney Water

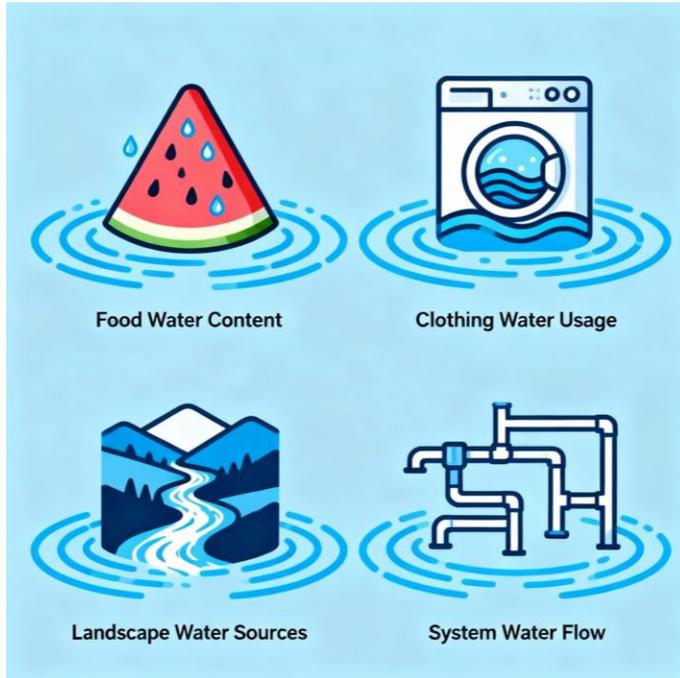


Sydney
WATER

~~Become~~
You are an ambassador
for water sustainability

Finding small, practical ways to make a big difference

3 mindset shifts



From hidden to visible - consider where water really lives in our lives (food, clothes, landscapes, and systems).



From passive use to active value - notice, respect, and protect it through everyday actions.



From isolated to interconnected - consider how water links communities, cultures, economies, and ecosystems.

Be the first penguin

When a penguin jumps first, the others follow - it takes one clear line of sight (or action) to change the group's focus.



**What if we
paused to trace
the journey
behind
every
drop?**



Building Young Water Stewards

Aqua Allies



Aqua ALLY

Sydney
WATER

Reframing Our Vision

Is this just a
glass of water?





Thank you

Let's connect

www.linkedin.com/in/traceyjwillingham

Sydney
WATER



John Brelsford

**Business Development Lead
Optimatics**

Bring Water into Focus: Data to Support the Value of Water

YWP National Water Week Webinar 2025

John Brelsford

Business Development, Optimatics (ANZ) & RiSWP
Leadership Team

21 October, 2025



Overview

- Who We Are (RiSWP at a glance)
- From Global to Local: Valuing Water
- How Data Creates Impact
- A Clearer View of Water
- How can you use data in your life to bring water into focus?

SWAN Members

Global leaders in advancing smart water worldwide.



SWAN
SMART WATER NETWORKS FORUM



Water utilities



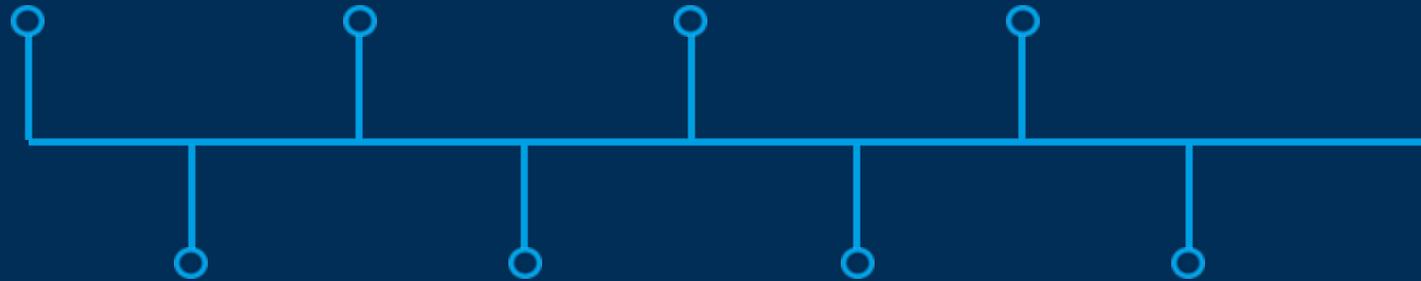
Solution providers



Researchers



Academics



Regulators



Investors



Rising professionals



Consultants



RiSWP Initiatives

(1) Career Development Portal



(3) Mentorship Programme



(2) Smart Water Courses



(4) Ambassador Programme





**4th SWAN APAC
Workshop**

REGISTER TODAY

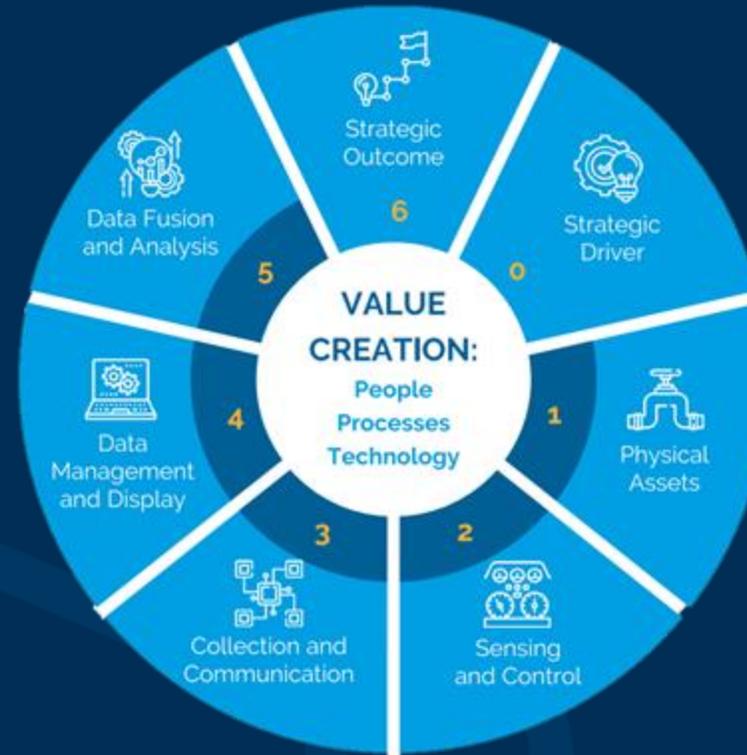
November 10th-11th 2025
Dockside, Sydney Australia



What do Customers and the Community Value?

How do we provide this?

- Reliable, clean water supply
- Affordability
- Water Quality
- Environmental Sustainability
- Infrastructure Investment
- Transparency
- Innovation
- Equity
- Community
- Stakeholder Engagement



How Data Creates Impact

How can data support the value of water?

- Realtime, accurate info (both customer and operation)
- Optimised investment
- Minimal subjective intervention
- Data literate workforce
- Proactive maintenance schedules
- Maximise Customer satisfaction
- Self-diagnosing
- Self-healing



From Global to Local

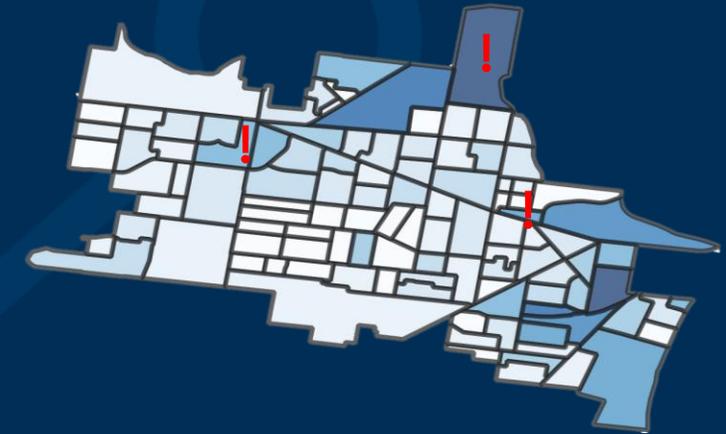
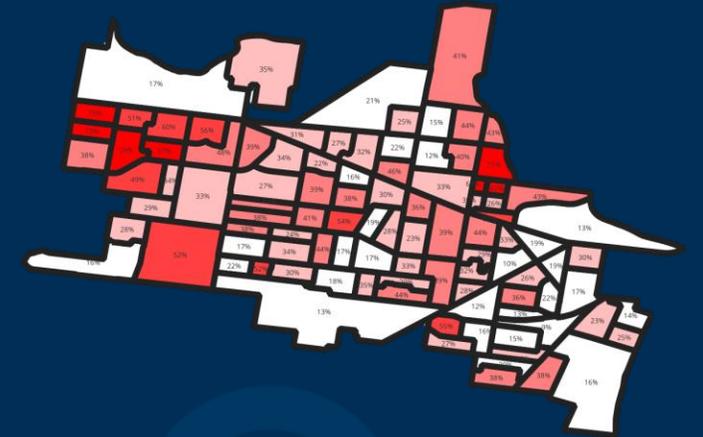
Greater Western Water System Planning Optimization

1. Blockage Analysis: The criticality of each pipe in terms of spill and flood volume was assessed, providing a metric for the consequences of blockages across the system. 2.

2. Growth Analysis: The optimization aimed to maximize growth while minimizing hydraulic penalties. Critical areas where growth could not be accommodated without increasing hydraulic penalties were identified.

3. Master Plan Optimization Analysis: Using population scenarios for 2023 and 2072, the optimization process evaluated potential interventions, including new pipelines and upsizing existing ones. The objective was to minimize both total costs and hydraulic penalties, with results presented in Pareto curves.

Original plan was for around \$9m in repair and replacement costs, and we helped them bring that down to around \$3.5m.



Data Cleanliness

Do we have sufficient, clean data available?

Maintenance	Investment
Maintenance History	Consumer Trends
Asset Inventory / Condition	Growth Data
Failure Locations	Geospatial Data
Weather Data	Labor Costs
Customer Data	Risk Profiles
Sensor Data	Failure Patterns

SMART Networks, SMART People

How do we keep up with the demands of the future?

(1) Upskill the current workforce

(2) Career Development

(3) Smart Water Courses

(4) Ambassador Programmes

(5) Mentorship Programmes



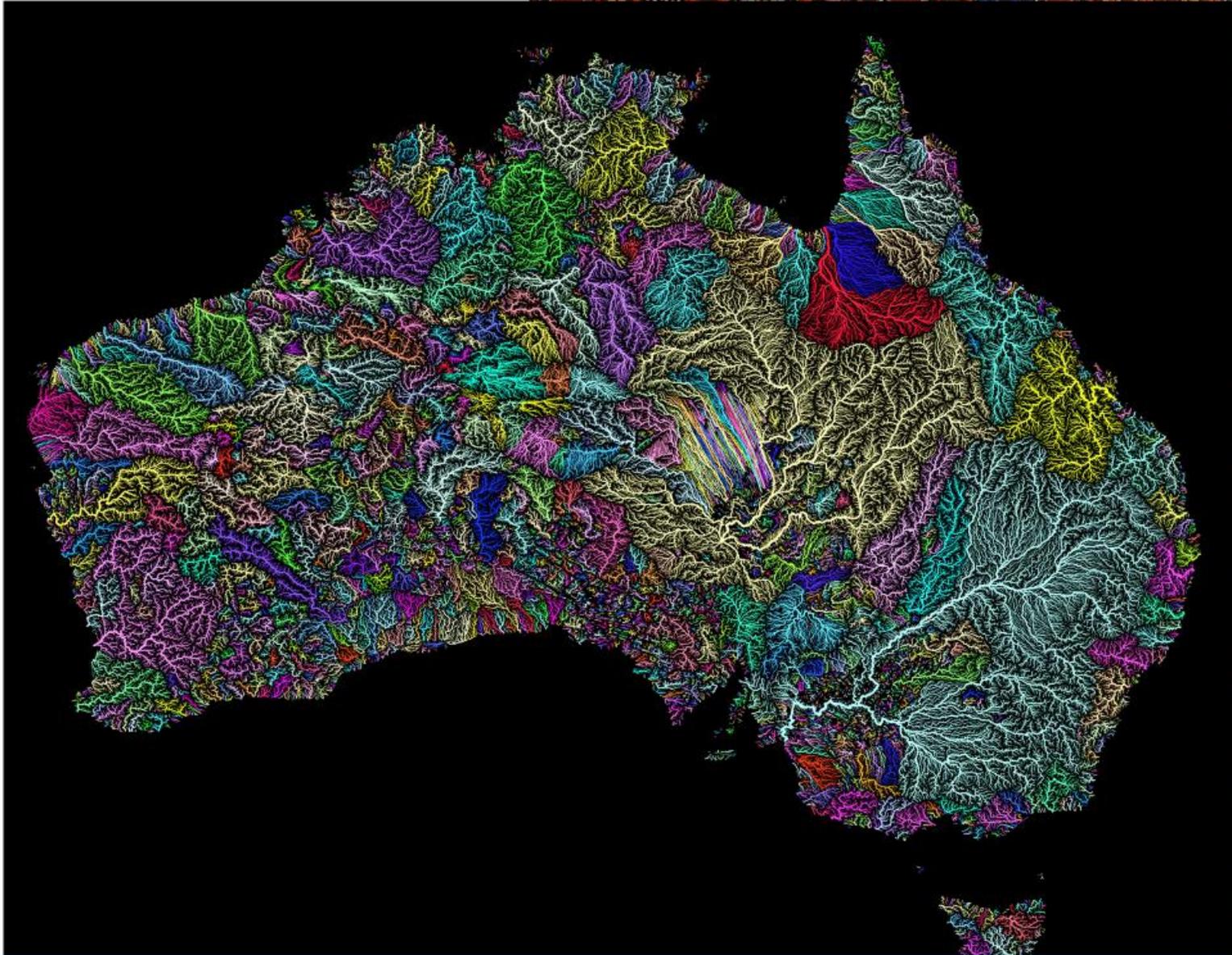
The logo for National Water Week, featuring the text "NATIONAL WATER WEEK" in white, bold, sans-serif font. The text is arranged in three lines: "NATIONAL" on the top line, "WATER" on the middle line, and "WEEK" on the bottom line. The logo is set against a dark blue circular background with a lighter blue ring around it.

NATIONAL
WATER
WEEK

Bring Water Into Focus

Panel Discussion and Questions

Our Rivers

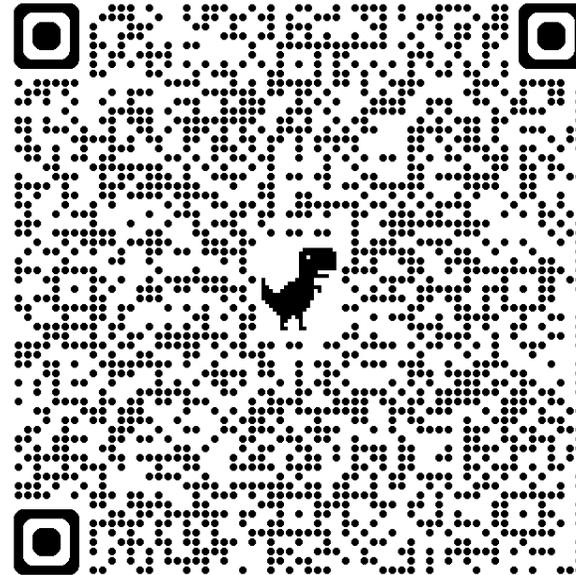


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WATER SCIENCE

Get Involved

- Events
- Become an Ambassador
- News
- Resources



<https://www.nationalwaterweek.org/>

The image features a central photograph of a person's hands holding a clear glass filled with water. A dynamic splash of water is captured mid-air above the glass. This central scene is framed by a large, circular graphic composed of two concentric rings: an inner ring in a medium blue and an outer ring in a darker blue. The background of the entire image is a light, solid blue. Overlaid on the center of the image is the text "BRING WATER INTO FOCUS" in a bold, white, sans-serif font, arranged in four lines.

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