



# Engaging Industry in Sustainable Water Management through Water Stewardship



Asia-Pacific  
Water Forum



ALLIANCE FOR  
WATER STEWARDSHIP  
ASIA PACIFIC



We acknowledge the Traditional Owners of the Land  
as the First Peoples of Australia.

We acknowledge that sovereignty was never ceded  
and their connection to land, water and culture  
are enduring.

We hope that together we can work towards  
treaty and reconciliation.

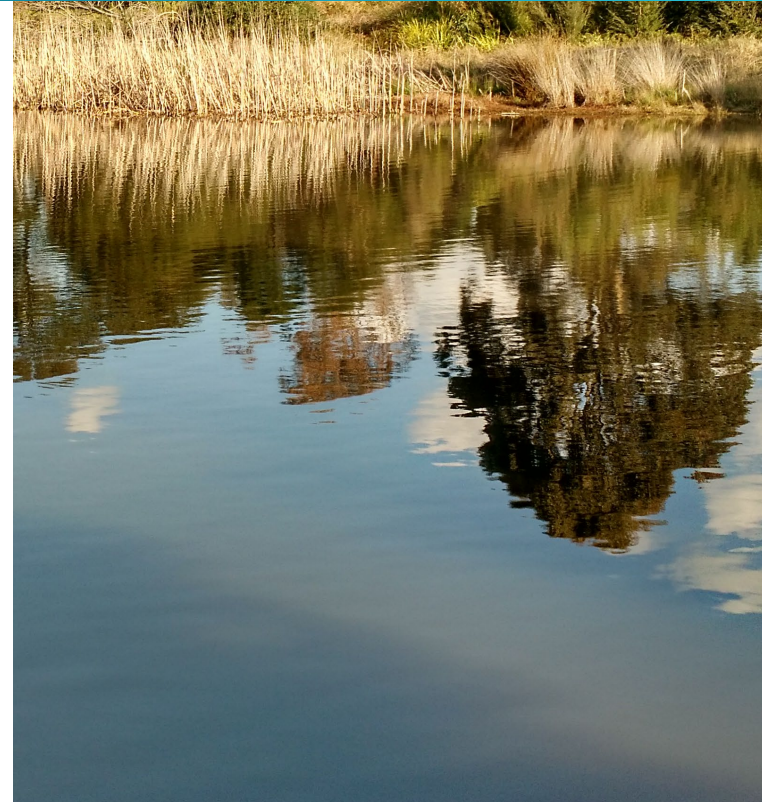
Water Dreaming ceremony in cave. Johnny Warangkula Tjupurrula, 1971.

© Johnny Warangkula Tjupurrula /Licensed by Aboriginal Artists Agency Ltd. Source: [National Gallery of Victoria](https://www.nationalgallery.org.au/works/johnny-warangkula-tjupurrula-water-dreaming-ceremony-in-cave)



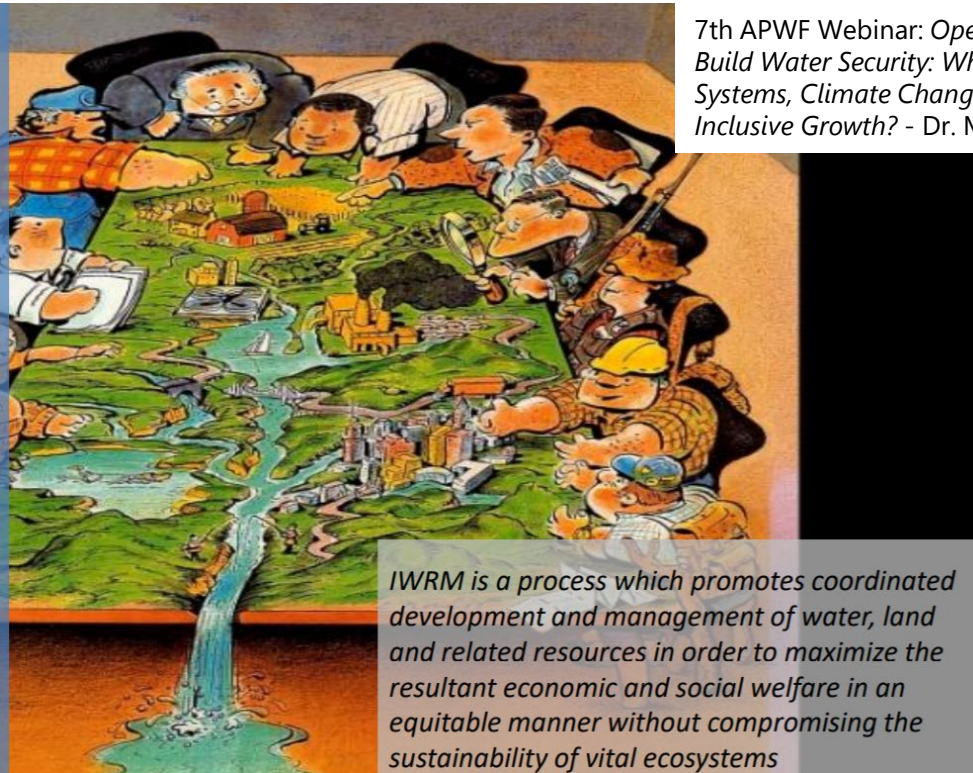
# AGENDA

- Setting the scene
  - Why water stewardship?
  - What is water stewardship?
- Who practices water stewardship?
- Motivations and constraints
- Next steps and recommendations
- Questions?



## SETTING THE SCENE

# WHY WATER STEWARDSHIP?



7th APWF Webinar: *Operationalizing IWRM to Build Water Security: What are Lessons for Food Systems, Climate Change Adaptation and Inclusive Growth?* - Dr. Mark Smith

*IWRM is a process which promotes coordinated development and management of water, land and related resources in order to maximize the resultant economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems*

## SETTING THE SCENE

# WHY WATER STEWARDSHIP?

**The world is facing a water crisis.** Water is a precious resource and one of the greatest global risks to economic progress, poverty eradication, peace and security, and sustainable development.

**An inclusive approach will be necessary,** drawing in sectors such as agriculture and leaders such as city mayors and CEOs. New partnerships and ways of working will be crucial. Governments, communities, the private sector and researchers will need to collaborate

- High Level Panel on Water (2018) Open Letter to Global Leaders



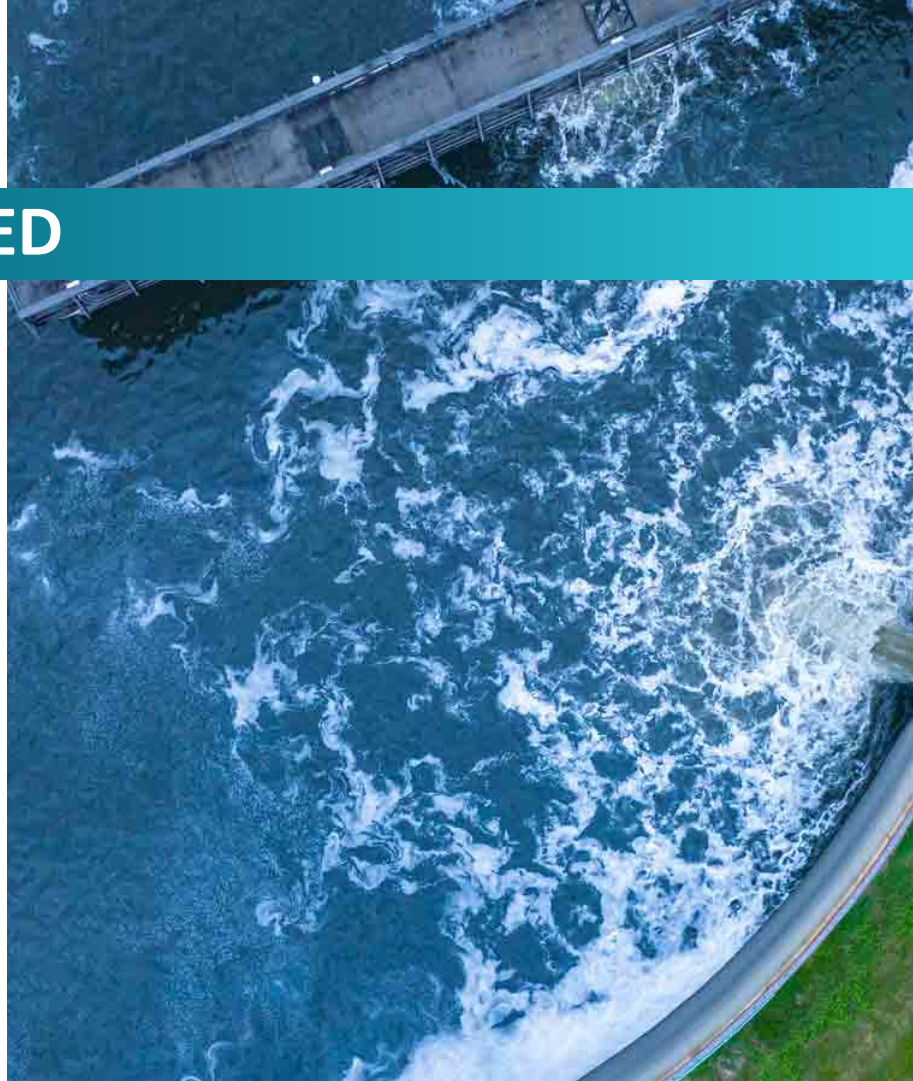


SETTING THE SCENE

# WATER STEWARDSHIP DEFINED

The *use* of water that is socially and culturally equitable, environmentally sustainable and economically beneficial, achieved through a stakeholder-inclusive process that involves site- and catchment-based actions.

- AWS (2019) International Water Stewardship  
Standard v2.0



## SETTING THE SCENE

# WHAT IS WATER STEWARDSHIP?

THE AWS STANDARD FRAMEWORK  
IS BUILT AROUND FIVE STEPS:

1. GATHER AND UNDERSTAND
2. COMMIT AND PLAN
3. IMPLEMENT
4. EVALUATE
5. COMMUNICATE AND DISCLOSE



GOOD WATER  
GOVERNANCE



SUSTAINABLE  
WATER BALANCE



GOOD WATER  
QUALITY  
STATUS



IMPORTANT  
WATER-RELATED  
AREAS



SAFE WATER,  
SANITATION AND  
HYGIENE FOR ALL  
(WASH)

## SETTING THE SCENE

# WATER STEWARDSHIP

## SUSTAINABLE DEVELOPMENT GOALS



## HLPW ENGAGEMENT

The Panel fosters effective public-public, public-private, and civil society alliances, pooling the experiences and resourcing strategies of partnerships. It also recommends that countries worldwide create, participate, support, and consolidate local, regional, and global partnerships.

### HEADLINE RECOMMENDATION

Motivate all water use sectors to embrace water stewardship, strengthen their collaboration, and participate in integrated water resource management

- “Making Every Drop Count”, HLPW Outcome Document



KYUSHU KUMAMOTO FACTORY, JAPAN

**SUNTORY**







## MIZUIKU EDUCATION PROGRAM

## SUNTORY

- Outdoor School of Forest and Water
- Teaching Programs for Schools
  - 13,000 students





# WATER RISK IN THE ICT SECTOR: FLOODING

More than

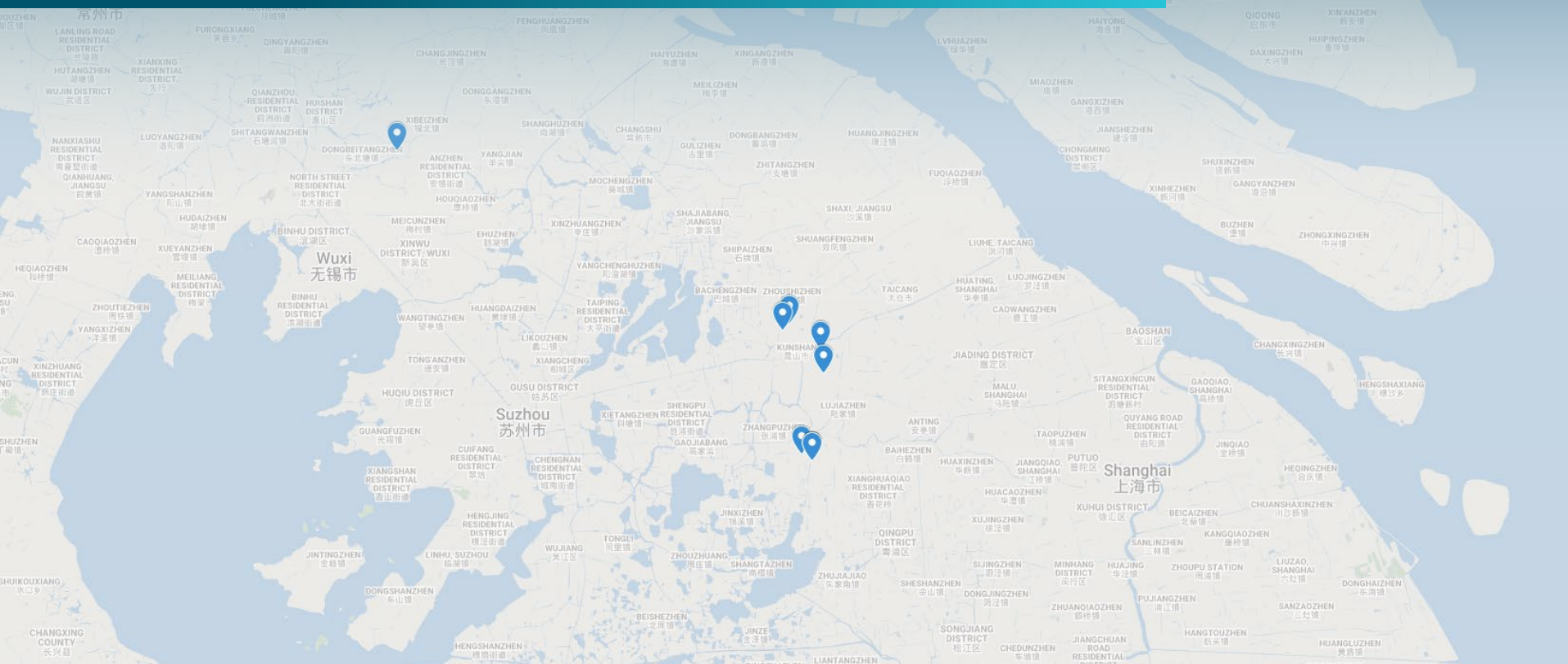
80%

of ICT sector supply chain  
locations face high to very high  
levels of risk due to **flooding**



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WATER STEWARDSHIP

# MICROELECTRONIC SUPPLY CHAINS





TAINAN, TAIWAN

TSMC

Source: [TSMC Website](#)





SOUTH AUSTRALIA

# REMARK IRRIGATION TRUST





SOUTH AUSTRALIA

# RENMARK IRRIGATION TRUST



98% delivery efficiency



337 ML delivered to environment



**SEE Renmark 2024:** vision with  
Renmark Paranga Council and  
local community







Renmark Paringa  
Council



RENMARK

# SCALING UP





# CONSTRAINTS & MOTIVATIONS

## Shifting the traditional paradigm

Main solutions to water issues have traditionally been based on engineering (technology) and regulation



## Motivations & Benefits

- Risk management and mitigation
- Cost savings / productivity gains
- Enhanced relationships and reputation
- Staff morale, productivity, motivation, retention
- Corporate disclosure

# RECOMMENDATIONS



## Governments

### **Connect with water stewardship initiatives**

including those involving private companies.

Where there are few resources to support water user associations and other local water user groups,

**connect with the momentum** generated by catchment-level water stewardship initiatives.

Source: [Dalton & Newborne \(2016\) \*Water management and stewardship\*](#)

# RECOMMENDATIONS



**Incentivise sustainable water use**, especially for small- to medium-sized enterprises (SMEs).

Companies may have a hard time accessing capital to invest in sustainable practices. **Development finance** can attract and mobilise other sources of private capital.

Source: [Maennicke and Hoenerhoff \(2021\) \*Development finance: Encouraging sustainable water use by industry\*](#)

[in Davis & Rosenblum (eds) (2021) *Sustainable Industrial Water Use: Perspectives, Incentives, and Tools*]



# RECOMMENDATIONS



You

**Change the 'culture of water'**, so utilities and water professionals bring water customers, industry, government, and other stakeholders into the process.

**The water industry must shift from exclusively technical solutions to one that acknowledges behavioural change.**

Source: [Spencer \(2021\) \*The culture of water needs to change\*](#)

[in Davis & Rosenblum (eds) (2021) Sustainable Industrial Water Use: Perspectives, Incentives, and Tools]

## FURTHER READING

- AWS. (2019). *The International Water Stewardship Standard v2.0*. Accessible at <https://a4ws.org/the-aws-standard-2-0/>
- Bringing Back the Light: TSMC Firefly Habitat Restoration Initiative website. Accessible at <https://csr.tsmc.com/csr/en/update/greenManufacturing/caseStudy/15/index.html>
- Dalton J., and Newborne P. (2016). *Water management and stewardship*. IUCN: Geneva. Accessible at <https://portals.iucn.org/library/sites/library/files/documents/2016-069.pdf>
- Maennicke O. and Honerhoff J. (2021). *Chapter 18: Development finance: Encouraging sustainable water use by industry*. In Davis C. & Rosenblum E. (eds.) (2021) *Sustainable Industrial Water Use: Perspectives, incentives and tools*. IWA Publishing: London. Accessible at [https://doi.org/10.2166/9781789060676\\_0207](https://doi.org/10.2166/9781789060676_0207)
- Spencer M. (2021). *Chapter 22: The culture of water needs to change*. In Davis C. & Rosenblum E. (eds.) (2021) *Sustainable Industrial Water Use: Perspectives, incentives and tools*. IWA Publishing: London. Accessible at [https://doi.org/10.2166/9781789060676\\_0243](https://doi.org/10.2166/9781789060676_0243)



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WATER STEWARDSHIP**  
ASIA-PACIFIC

Water Stewardship Australia, trading as AWS Asia-Pacific, promotes and supports water stewardship in the region.

Our staff are located in Australia and China. We work in collaboration with AWS Indonesia.

**[waterstewardship.asia](https://waterstewardship.asia)**

