

### **Homelands**

#### remote

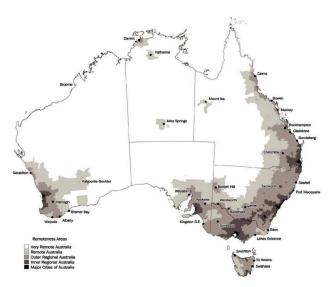


Figure 1: ASGC remoteness areas of Australia. Image source: Australian Institute of Health and Welfare (AIHW), "Rural, Regional and Remote Health: A Guide to Remoteness Classifications," in Rural Health Series, Number 4, Cat. No. PHE53 (Canberra: AIHW, 2004). 1.

#### recognised tenure

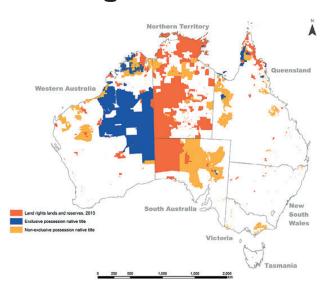


Figure 2: Indigenous lands by tenure type.

#### **Indigenous population**

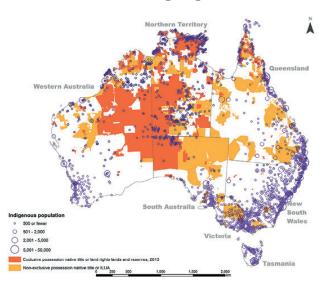
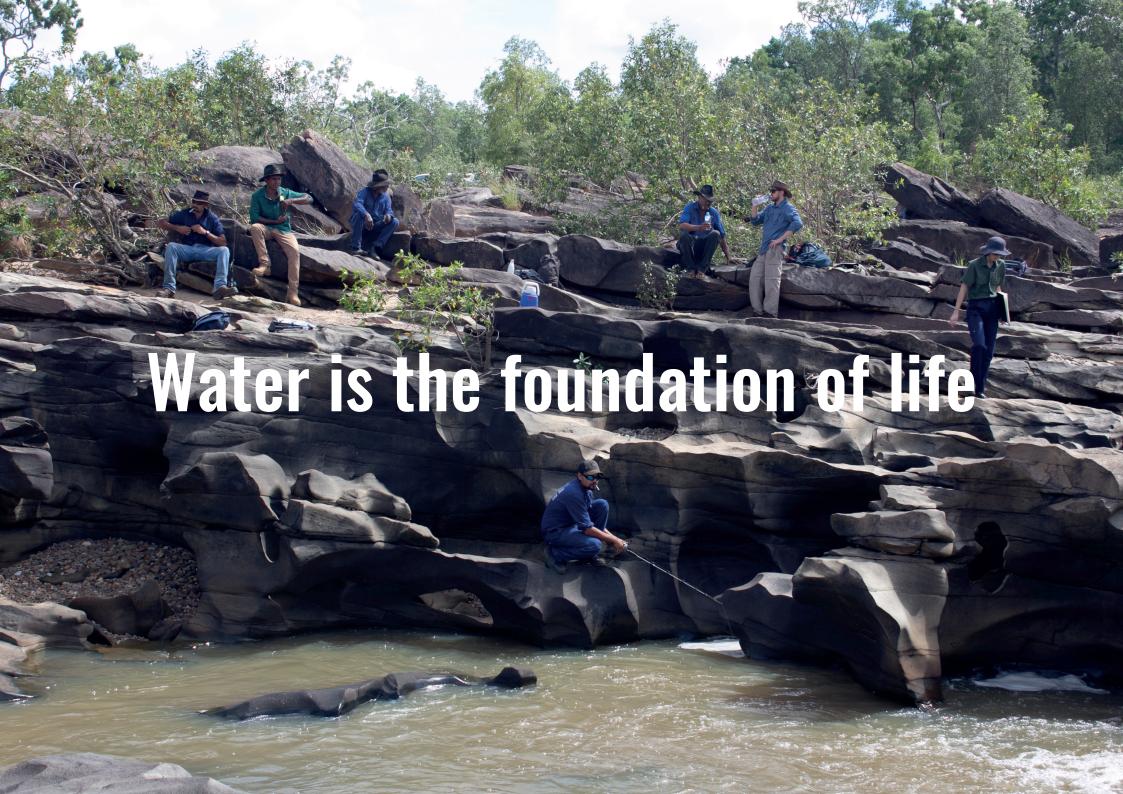
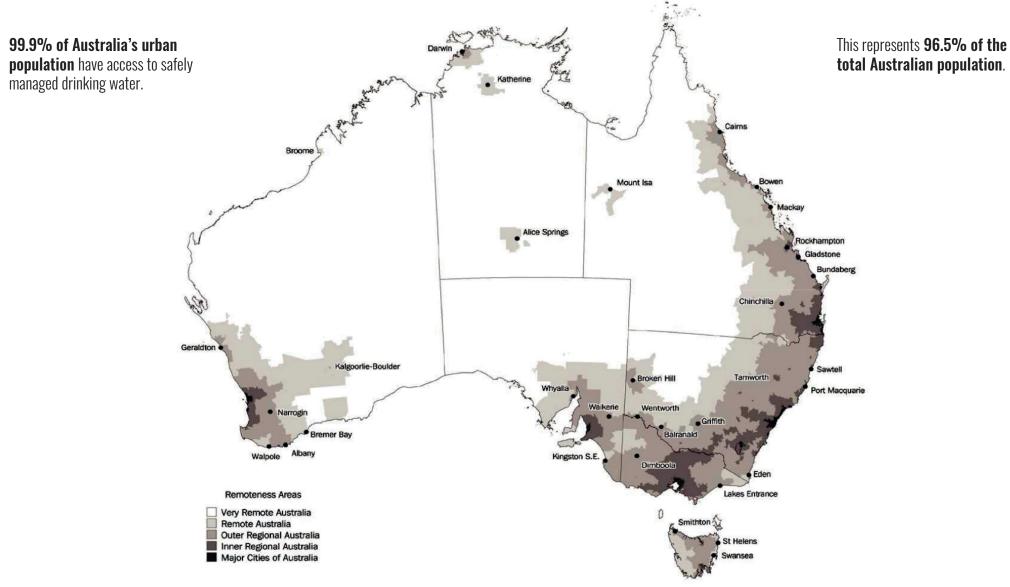
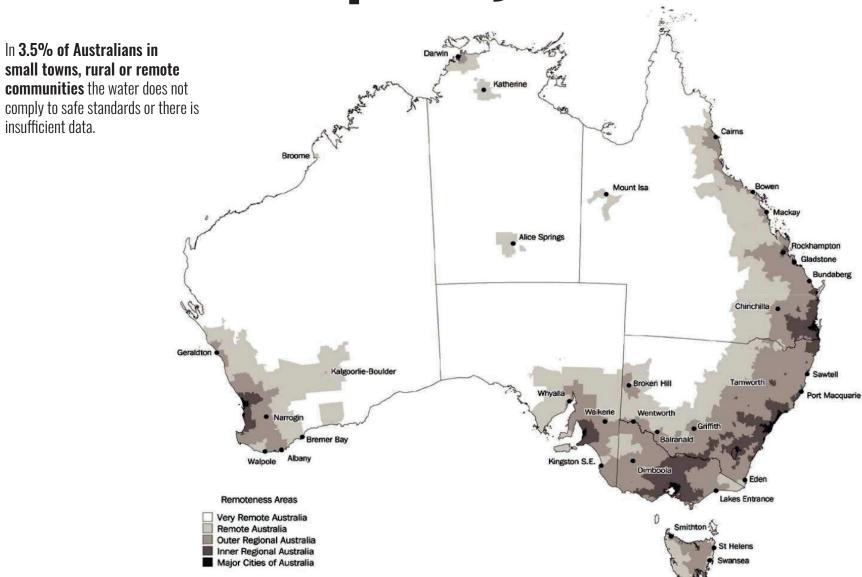
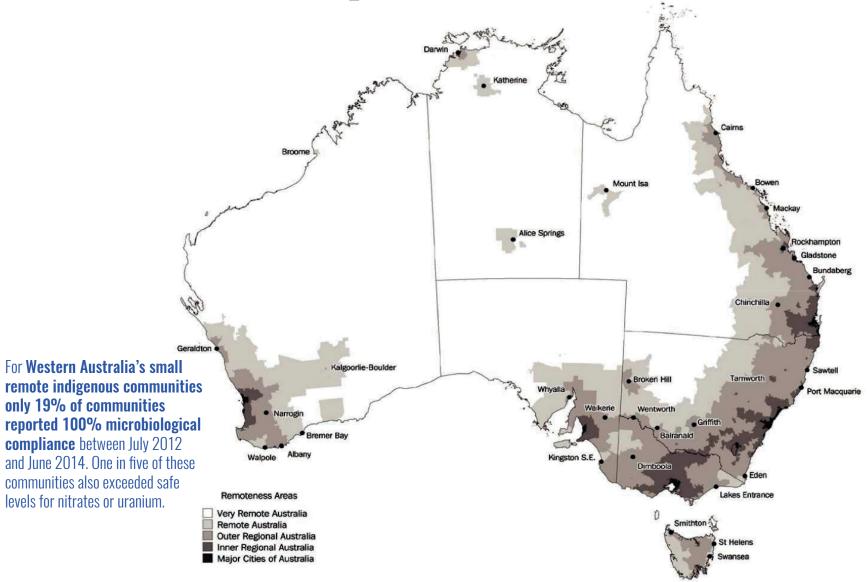


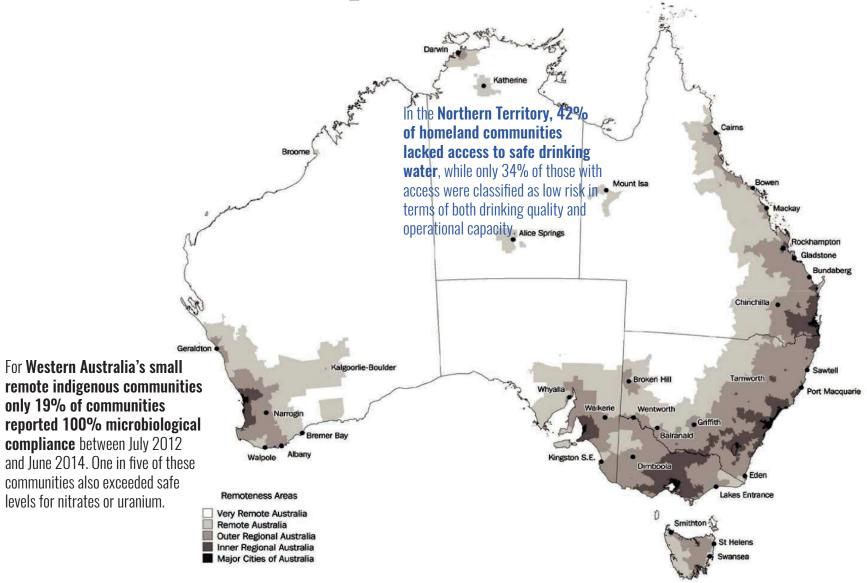
Figure 2& 3: Indigenous land tenure and Indigenous population distribution. Image source: J.C. Altman, "The political ecology and political economy of the Indigenous titling 'revolution' in Australia." Paper presented at the Indigenous Law Speaker Series 2014, New Zealand, March, 2014. http://maorilawreview.co.nz/2014/03/the-political-ecology-and-political-economy-of-the-indigenous-landrevolution-in-australia/, accessed March 15, 2018.

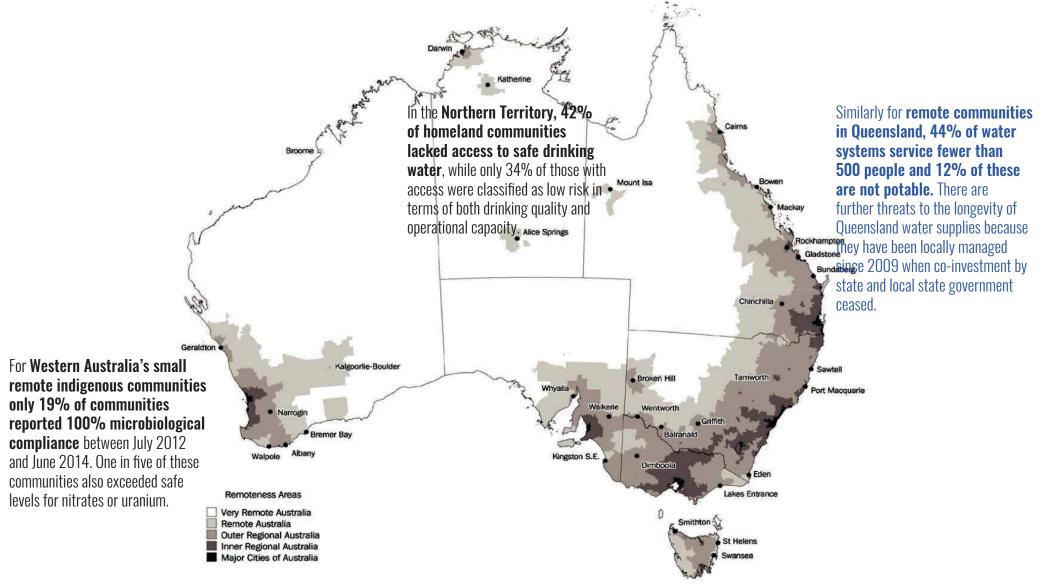




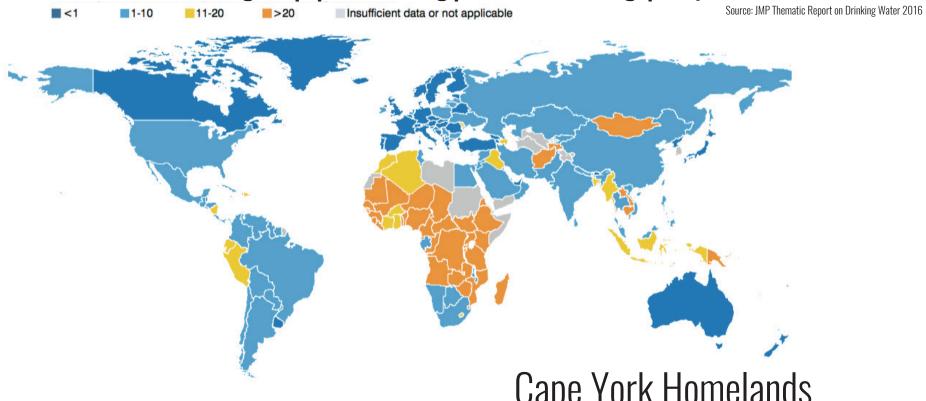








#### Percentage of population using poor water drinking quality

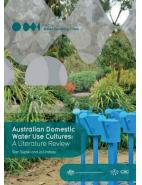


Indian Government funded water reservoir.
Photos: Anupam Mishra, The Ancient Ingenuity of Water Harversting, TED Talk, 2009.



# Cape York Homelands Sand filtered pump and standing lagoon. Photo: Engineers Without Borders and the Centre for Appropriate Technology, 2016.







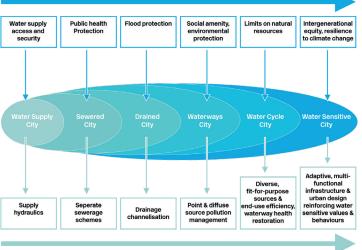


CRCWSC Research Synthesis

### IDEAS FOR CATALYSING FLOOD **RESILIENT DESIGN**







**Cumulative Socio-Political Drivers** 

**Service Delivery Functions** 









#### The International WaterCentre (IWC)

#### Water Leadership for the Future

IWC - creating tomorrow's leaders in water management by changing the way people think about, act and solve complex water management challenges WaterCentre



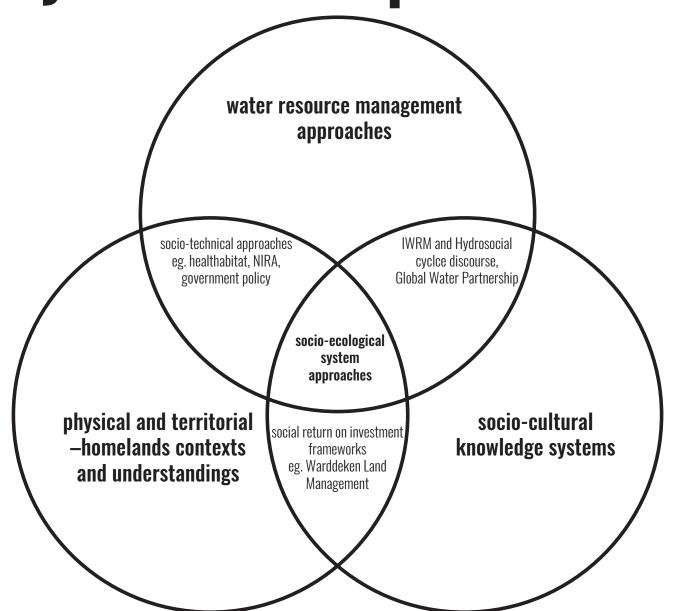




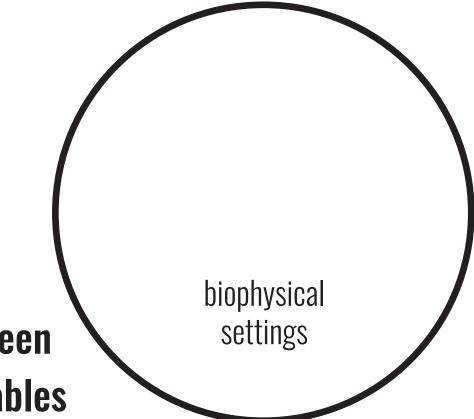


# What can we do to improve safe access to water on homelands?

# Systematic rapid review

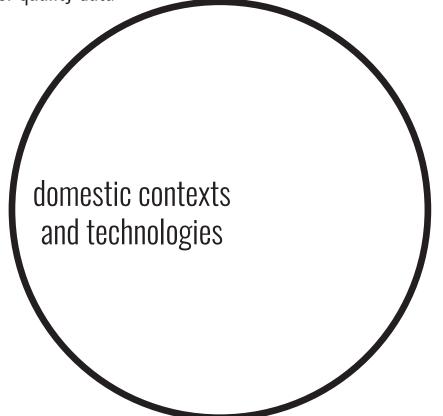


- territorial connections
- cultural connections
- climate (drought/flood)
- geology
- geography
- topography



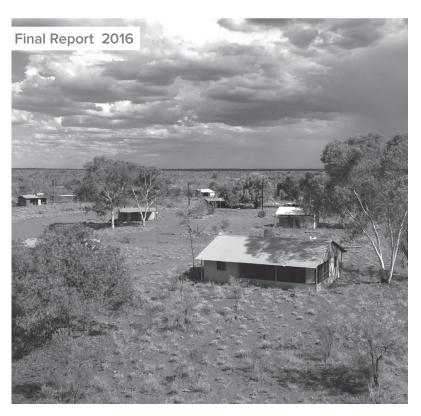
- ad hoc policy settings
- insufficient funding
- restrictive land tenure
- insufficient infrastructure

insufficient water quality data

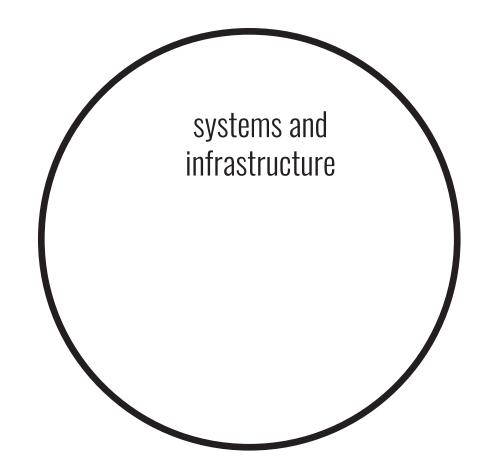




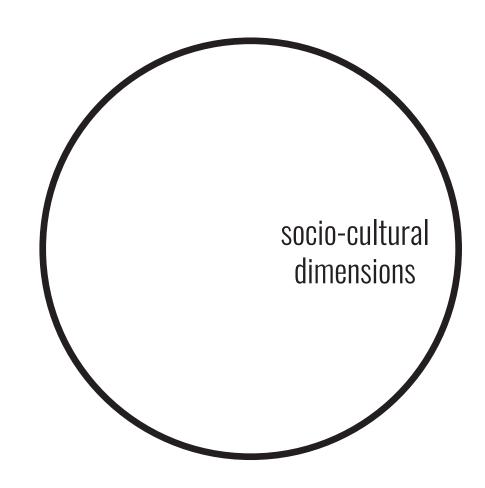
The Northern Territory
Homelands and Outstations
Assets and Access Review

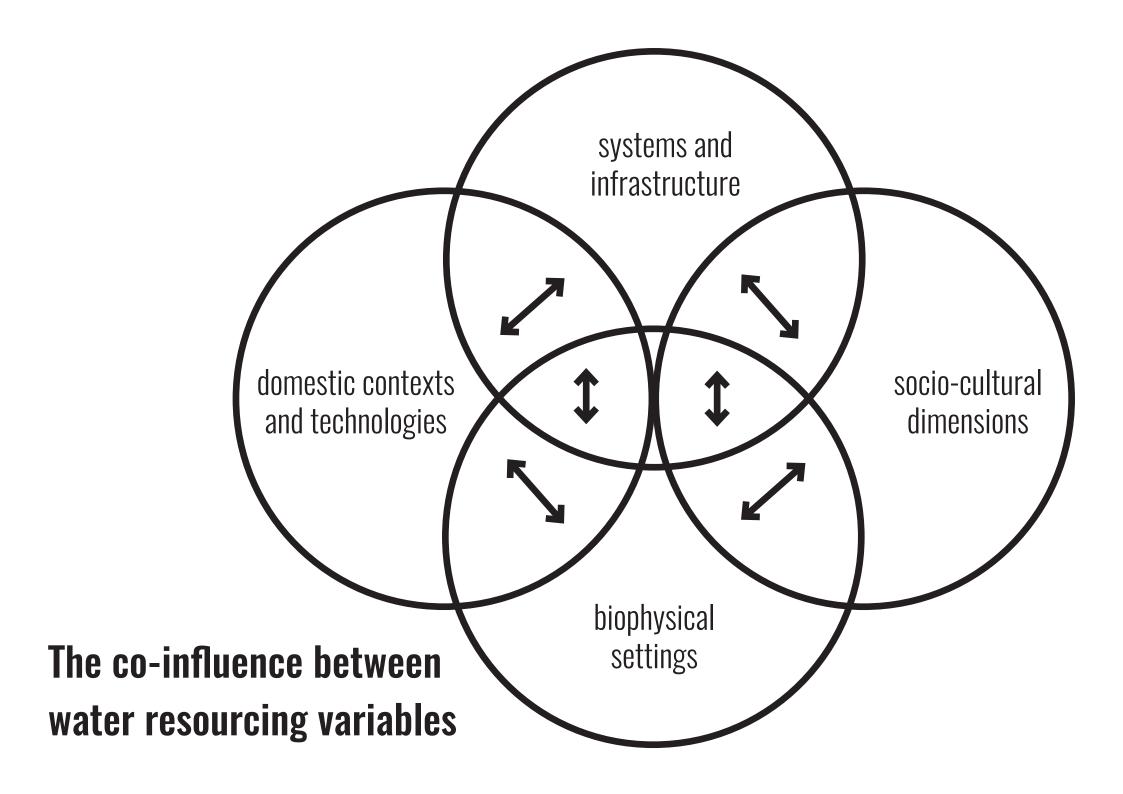


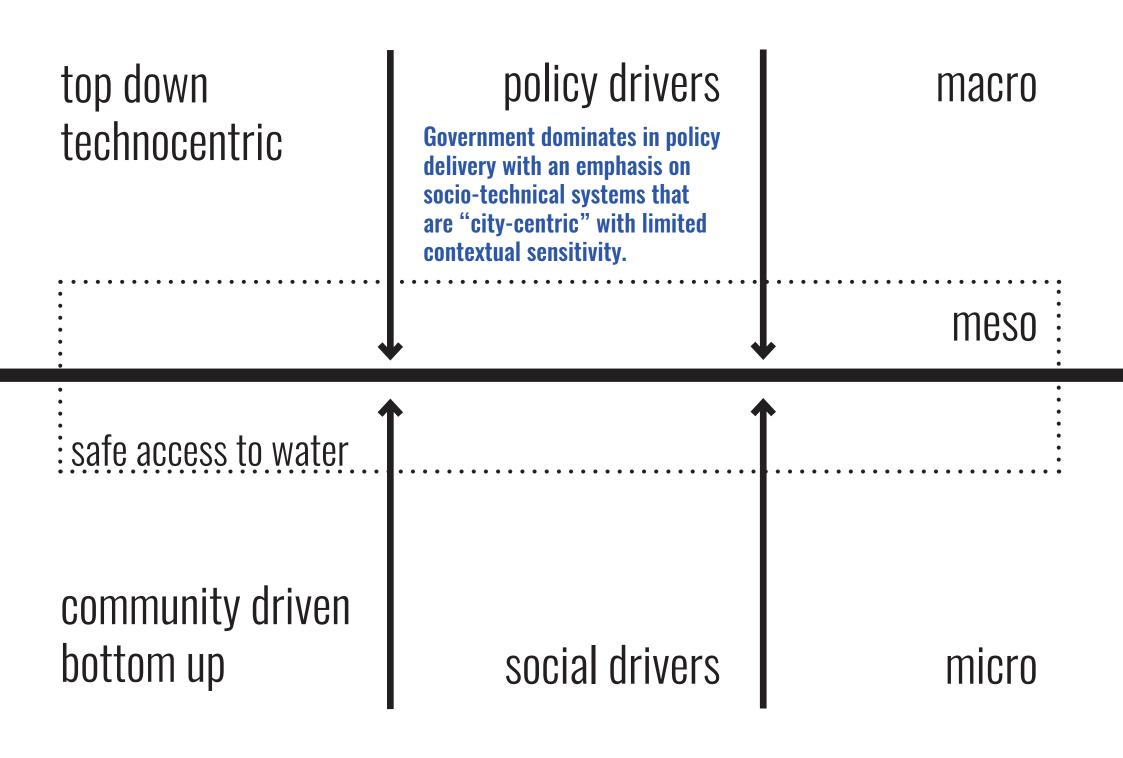
- remoteness
- lack of reticulated services
- urban centric systems
- poor levels of maintenance



- educational capacity
- meanings ascribed to water
- cultural knowledge



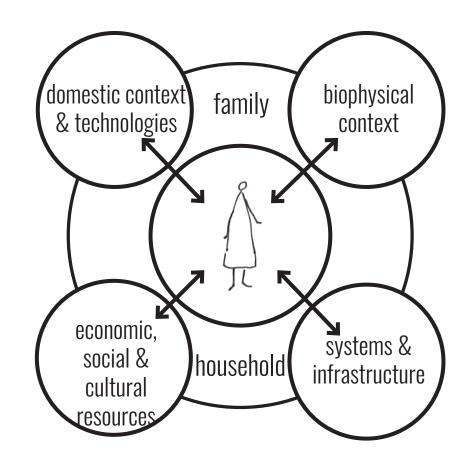




#### policy drivers top down macro technocentric Government dominates in policy delivery with an emphasis on sociotechnical systems that are "citycentric" with limited contextual sensitivity. meso : safe access to water Social, cultural, economic and **Bio-physical conditions are complex.** Local skills and existing technologies. material settings determine experiences, needs and capacities. community driven bottom up social drivers micro

### Micro Individual & Household

The materials, meaning and competencies (knowledge) that underpin the daily processes for water access and use are shaped by intersecting biophysical, infrastructure, technical and sociocultural dimensions.

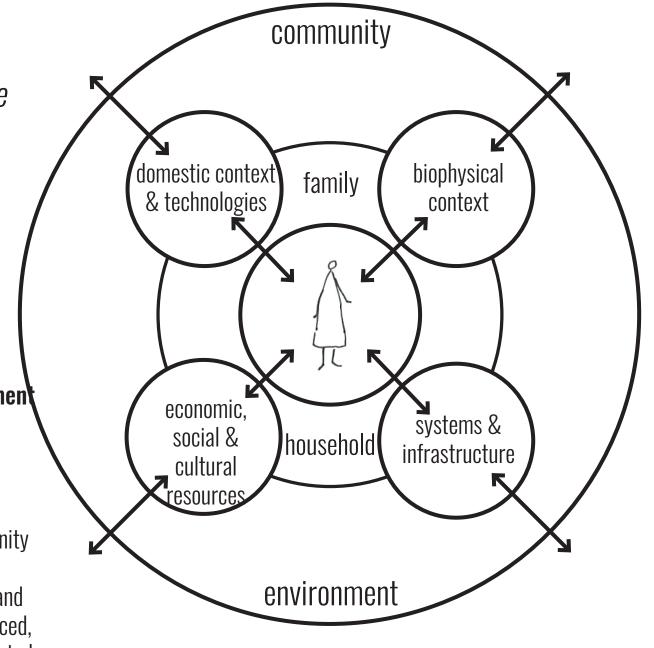


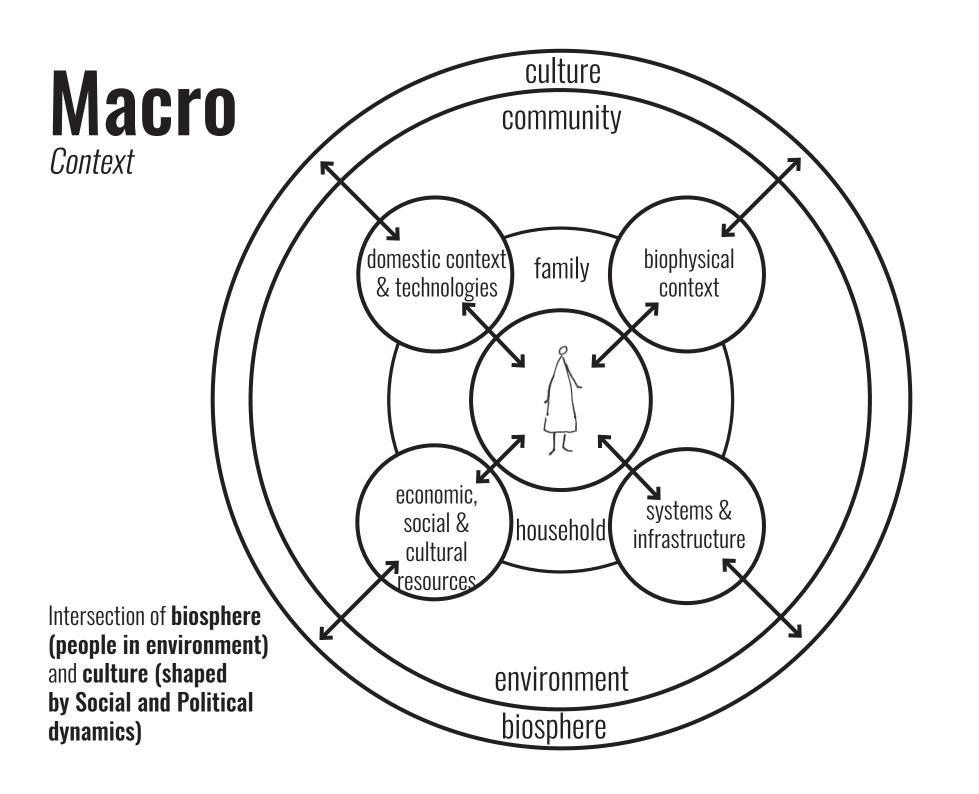
Meso Community Scale

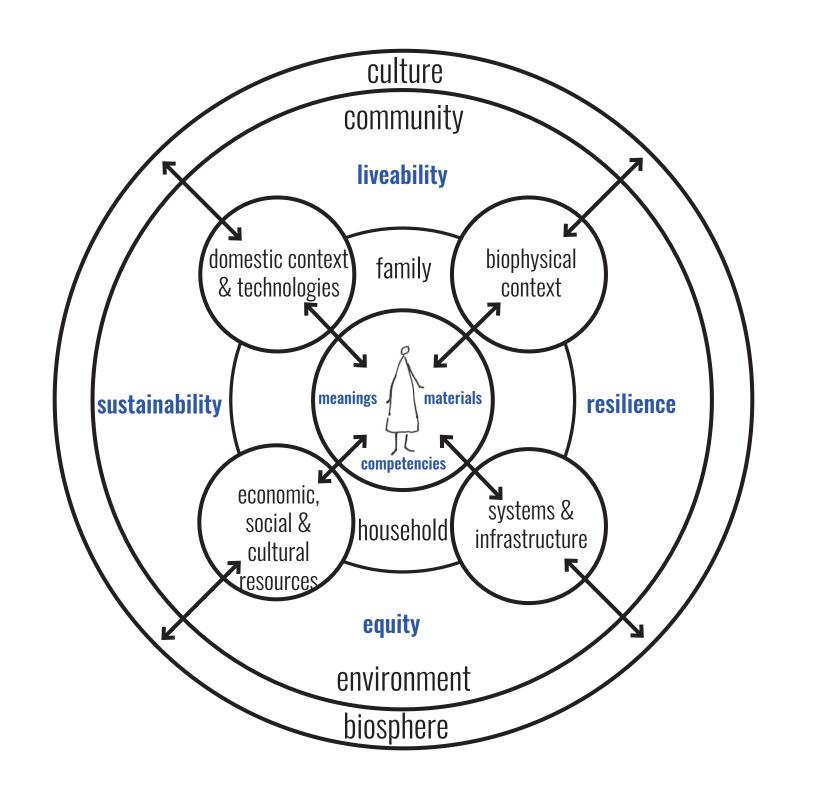
Intersection of community (socio-cultural process of place) with environmen (natural and built form).

Processes shaping the individual play out at the community scale.

Knowledge, meaning and materials are experienced, access and re-perpetuated.







### What is the value of the framework?

**Useful policy tool** for developing more contextually sensitive water resource management responses.

## What are the next steps?

**Partnering with communities to pilot and test** the efficacy of the framework.

For the framework to work effectively **more robust data collection is needed to determine the specific contextual needs and resources** (physical, social, natural, cultural or financial) that can be used to provide safe access to water.

