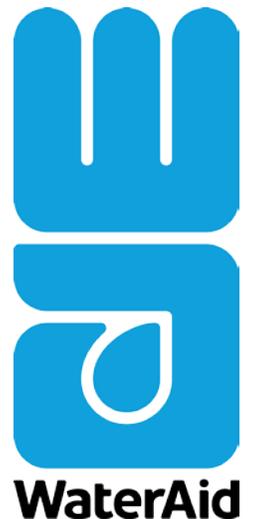


# Looking beyond WASH for Water Security: The Roles of IWRM and Climate Change

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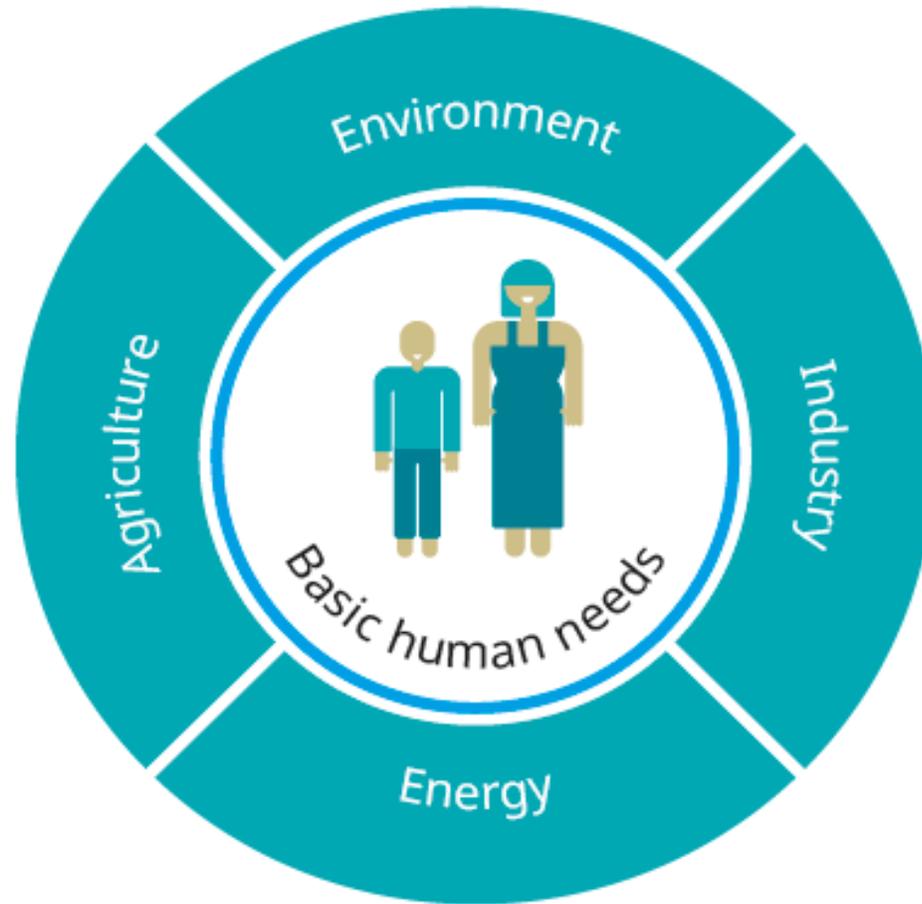
# Outline

## Looking beyond the WASH sector for Water Security

This talk will outline:

- Relationship between WASH, IWRM and Climate Change
- Implications for partnerships and collaboration
- Overview of how WaterAid works
- Experiences from our Country Programmes.

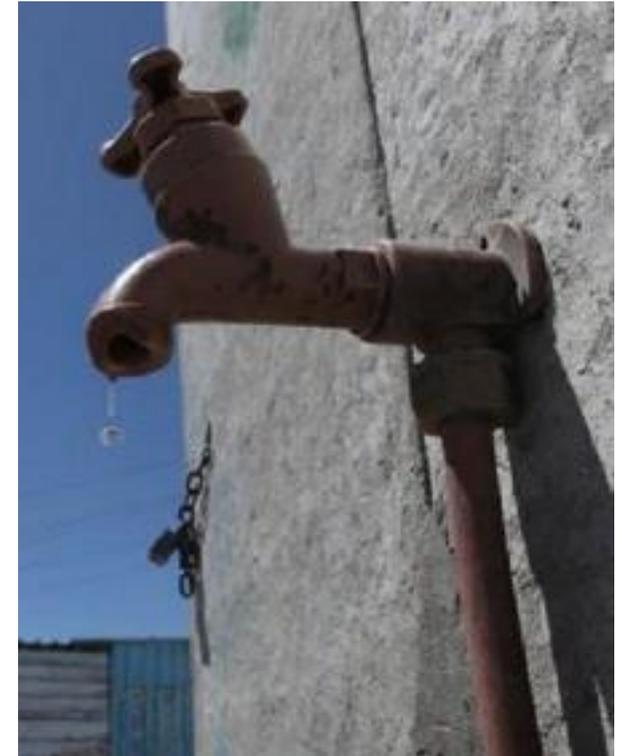
# Our focus area: basic human needs





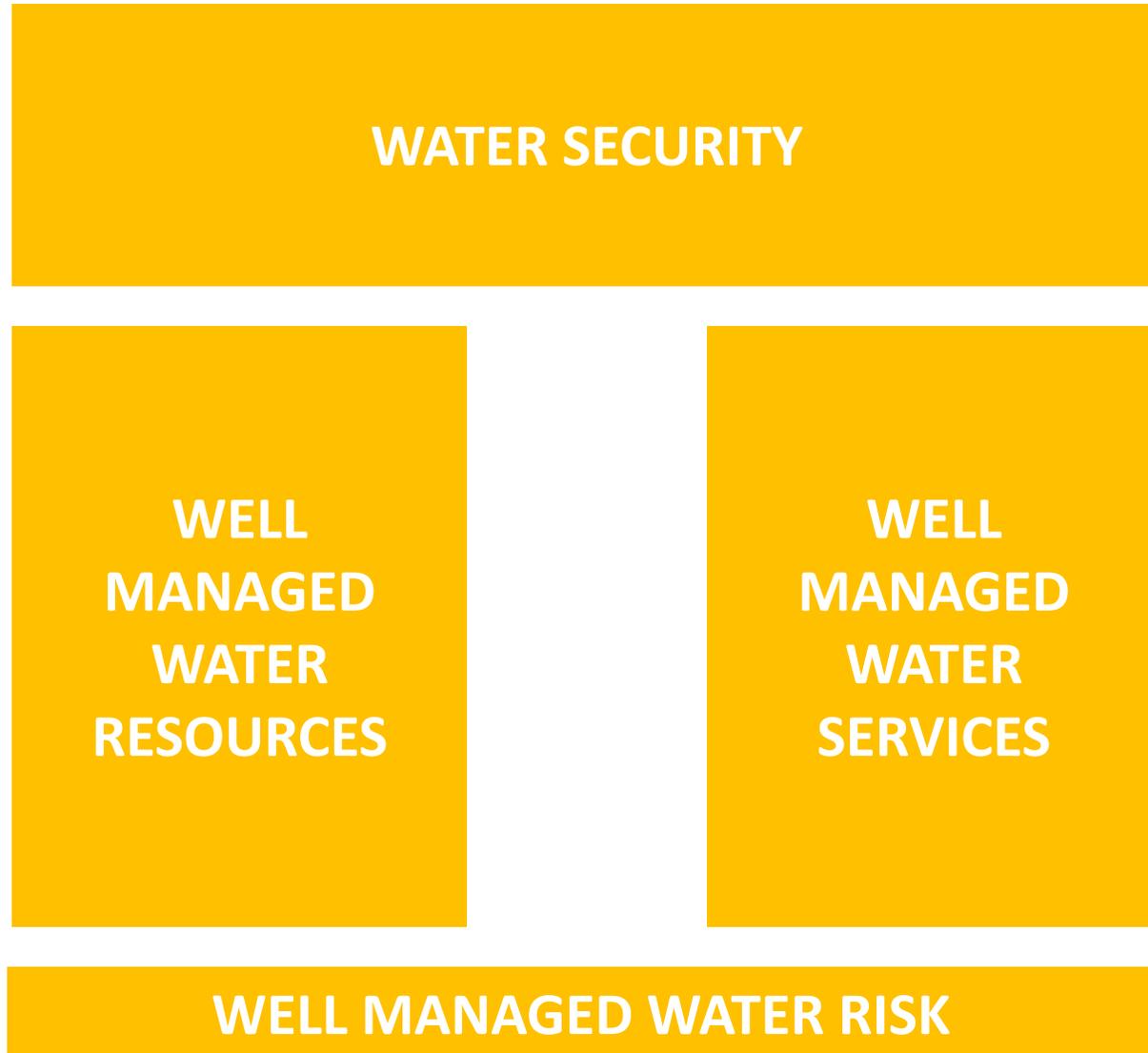
# Water security for basic human needs

**Reliable access** to water of sufficient **quantity** and **quality** for basic human needs, small-scale livelihoods and local ecosystem services, coupled with **effective management of water-related disaster risk**.





# Ingredients for water security





# Threats to water security

- Poor governance
- Poor management of services
- Low political prioritisation
- Growing demand
- Rapid urbanisation
- Pollution
- Poor sanitation
- Environmental degradation
- **Climate change (uncertainty)**
- Climate variability
- Political instability
- Poor hygiene



# Climate resilience and WASH

1. Access to WASH is a critical line of defense against climate change impacts. Without **access to at least basic services**, you cannot be resilient.
2. We need to **strengthen WASH services**, ensuring that they are resilient to climate change.
3. Access to climate resilient WASH services are essential for **adaptation.**



# 6 principles for climate resilient WASH

## WASH services, behaviours and systems that continue to deliver benefits despite extreme weather and other climate induced hazards.

- 1. Assessment:** Context specific assessments of hazards and vulnerabilities that impact water security and how these factors relate to climate change risk.
- 2. Partnership:** Where hazards and vulnerabilities exist outside the domain of WASH sector influence we seek collaboration with relevant actors.
- 3. Design:** WASH policy and programme interventions centred around addressing inequalities and designed using evidence
- 4. Implementation:** We will implement climate resilient WASH to the highest standard, ensuring sustainability, scale and inclusion.
- 5. Monitoring and adaptation:** We will monitor the impact of our work and adapt accordingly.
- 6. Learning and influencing:** We will use learning from our work for thought leadership and to influence change.



# How we Work and Experiences from Country Programmes

# Systems Strengthening and Empowerment

## Strong WASH system at local and national levels





## Typical SS+E Programming

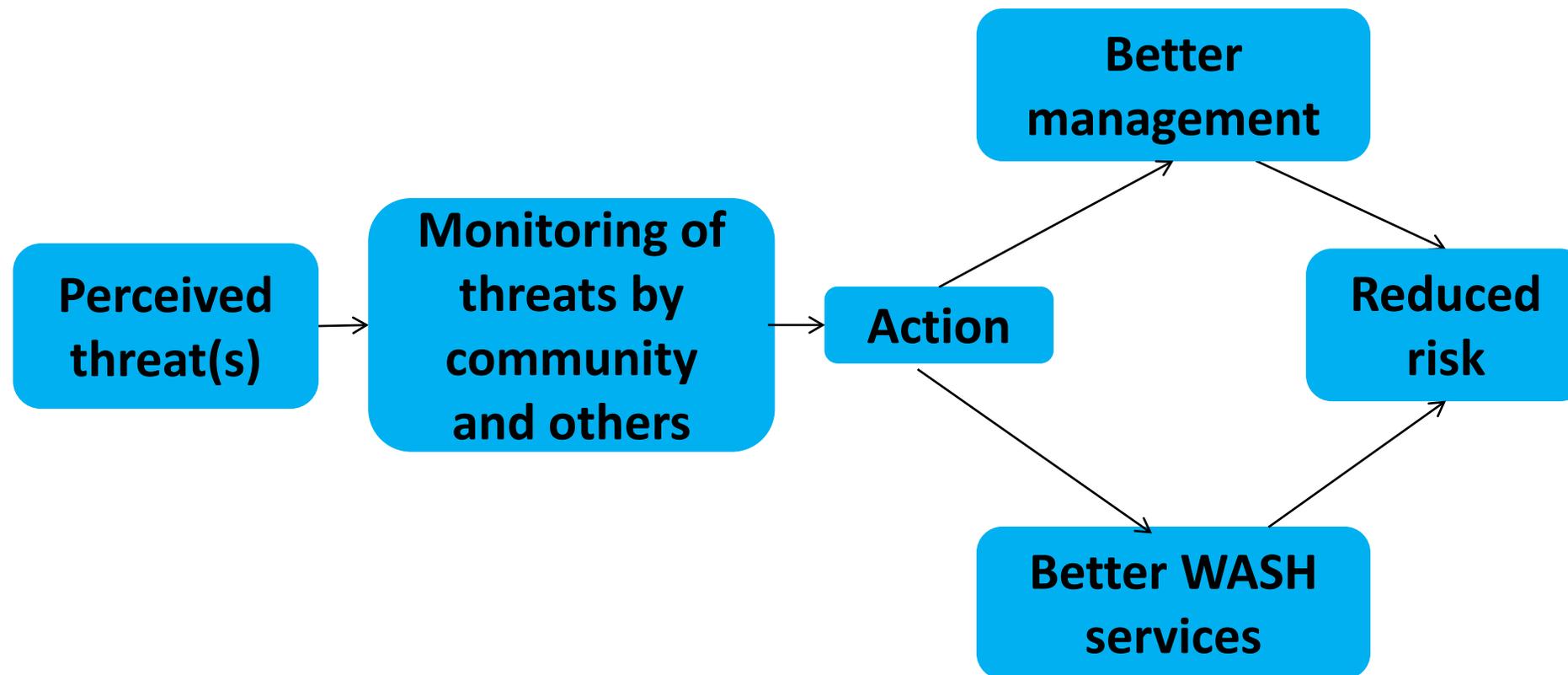
- Demonstrated models and approaches for inclusive, sustainable, scalable universal access/water security
- Improved capacity for planning, budgeting, monitoring and coordinating at local and national levels
- Strengthened accountability mechanisms and strategies for reaching everyone
- Improved institutional arrangements
- Learning used to influence relevant WASH sector actors (and beyond) and further the sustainability agenda globally

# Securing Water Resources Approach (SWRA)

Improves household and community water security by combining WASH service delivery with principles and activities associated with IWRM.



# SWRA Method



# Climate Resilient WASH: South Asia

- Climate vulnerability means increased risk of flooding, salinization and drought in many project areas across South Asia.
- Interventions include comprehensive local planning that spans sectors beyond WASH including health, livelihood, and education, to promote cohesive solutions for more resilient and adaptive communities.
- Infrastructural interventions include rain water harvesting (RWH) projects, aquifer recharge, and models based on water kiosks and ATMs.



# Climate Resilient WASH: Bangladesh

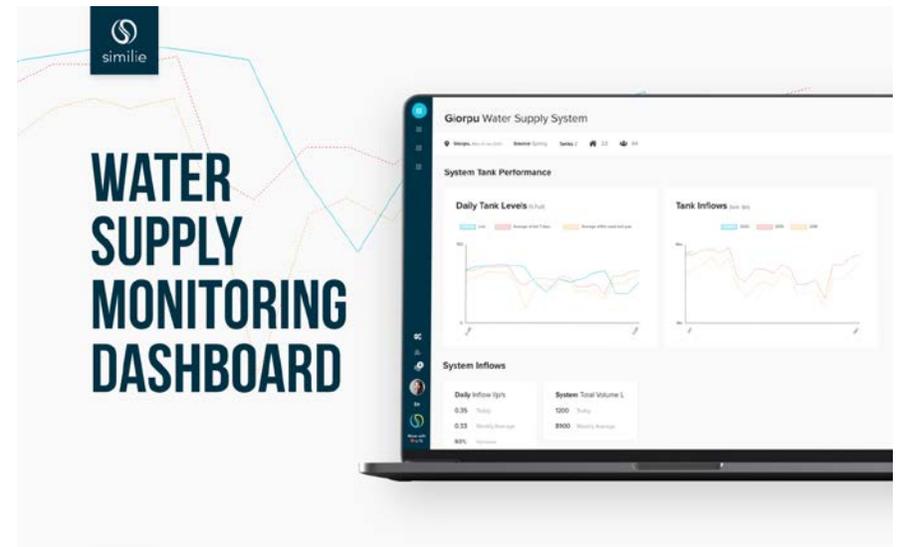
- Since 2009 we have led a programme targeting climate change vulnerability with successful results in flood prone areas.
- **Providing access to drinking water** during floods through dual platform tube wells;
- **Providing access to safe sanitation** through elevated latrines;
- **Production of Integrated Action Plans:** WaterAid and partners carry out assessments which indicate activities needed to manage or respond to disaster;
- **Support to budgeting processes:** Integrated Action Plans need to be underpinned by local government budgets



WaterAid Bangladesh Climate Resilience Project,  
funded by HSBC, Dacope, Khulna

# Timor Leste: Internet of Things for Community Water Supply and Increased Resilience

- WaterAid working with Similie to pilot remote water level indicators to support communities and local service providers to improve water security.
- Sensors in water supply tanks detect water levels and send information in real-time.
- Information on vulnerability of water sources to weather, drought and climate change. Plus information on source yields and user demand to improve system design for future climate resilience initiatives.



## Key Takeaways

- Achieving water security for basic human needs means looking **beyond the WASH sector**;
- This will require **collaborative partnerships** with those working on issues including IWRM, climate change, agriculture and environment;
- WaterAid has programming experience working at some of these intersections but we continue **to look outwards** to achieve water security for the poorest and most marginalised.

# Thank you

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