

**RESILIENT BY DESIGN:**

**STRENGTHENING  
GOVERNANCE AND  
FINANCING PATHWAYS FOR  
INCLUSIVE WASH SYSTEMS**

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**Global South Academic Conclave on WASH and Climate 2026**

6th – 7th February 2026, Ahmedabad

**CWAS** CENTER  
FOR WATER  
AND SANITATION  
**CRDF** CEPT  
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# Introduction & Context

- Zambia's urban/peri-urban areas face **persistent WASH inequities**.
- Informal settlements remain underserved, exposing residents to health risks.
- Climate shocks (floods, droughts) magnify fragility of already weak systems.
- Message:** Business-as-usual perpetuates inequity, transformation is urgent.



# Aim of the Study

- Advance **Citywide Inclusive Sanitation (CWIS)** planning and implementation.
- Strengthen governance and financing frameworks for equitable service delivery.
- Embed climate resilience and community ownership into WASH systems
- **Goal:** Position Zambia as a leader in inclusive, climate-resilient sanitation.



# Research Objectives

- Synthesize global/regional CWIS and governance evidence.
- Assess service delivery in informal settlements.
- Identify institutional gaps and accountability challenges.
- Analyze financing mechanisms for vulnerable populations.
- Examine community participation and ownership.
- Integrate climate resilience into WASH planning and investment.



# Governance Realities

- Fragmented institutions weaken accountability and coordination.
- Executive decisions often lack scrutiny and transparency.
- Local governments under-resourced and overstretched.
- **Insight:** Governance is the backbone of inclusive WASH, without it, financing and infrastructure fail.



# Financing Challenges

- Current mechanisms bypass informal settlements.
- Chronic underinvestment and inequitable cost-sharing.
- Reliance on informal providers increases risks of contamination.
- **Message:** Financing must be inclusive, innovative, and climate-linked to reach the most vulnerable.



# Innovative Financing Pathways

- Blended finance models combining public, private, and donor resources.
- Climate adaptation funds to support resilient infrastructure.
- Circular economy: sludge-to-value (biochar, Black Soldier Fly technologies).
- **Takeaway:** Financing is not just about money rather it is about sustainability and equity.



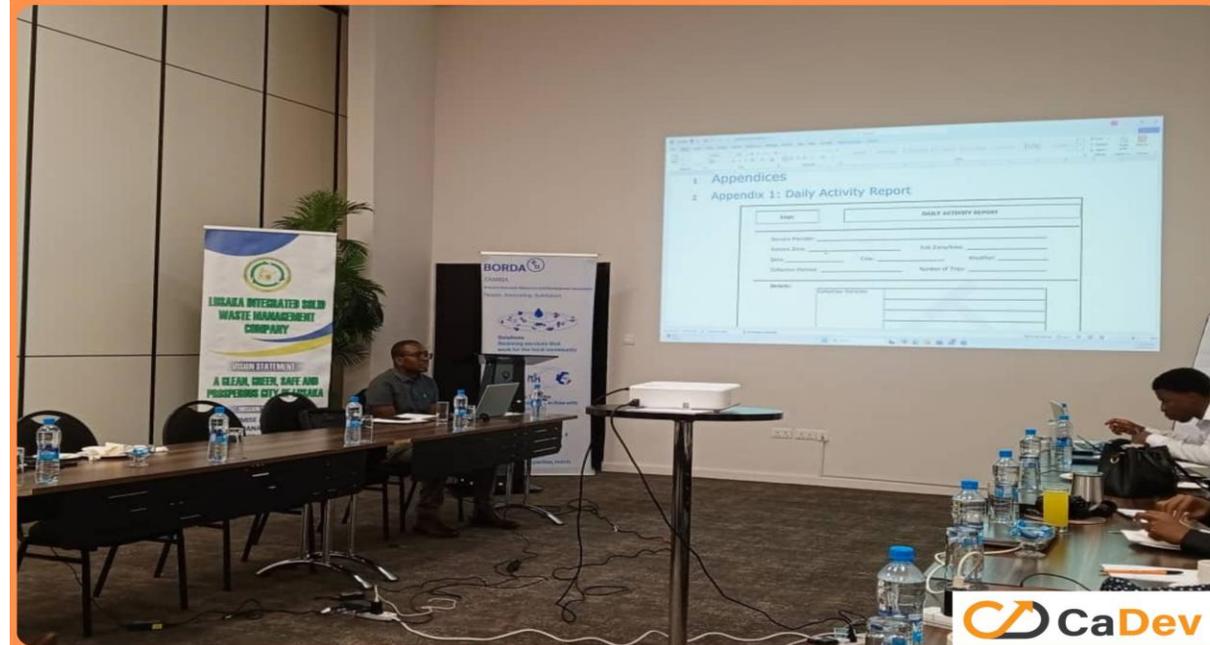
# Community Participation

- Ownership and behavior change drive sustainability.
- Case study: Kanyama & Chazanga, household engagement improved sanitation outcomes.
- Feedback systems strengthen accountability and service responsiveness.
- Message:** Communities are co-architects of resilience, not passive beneficiaries.



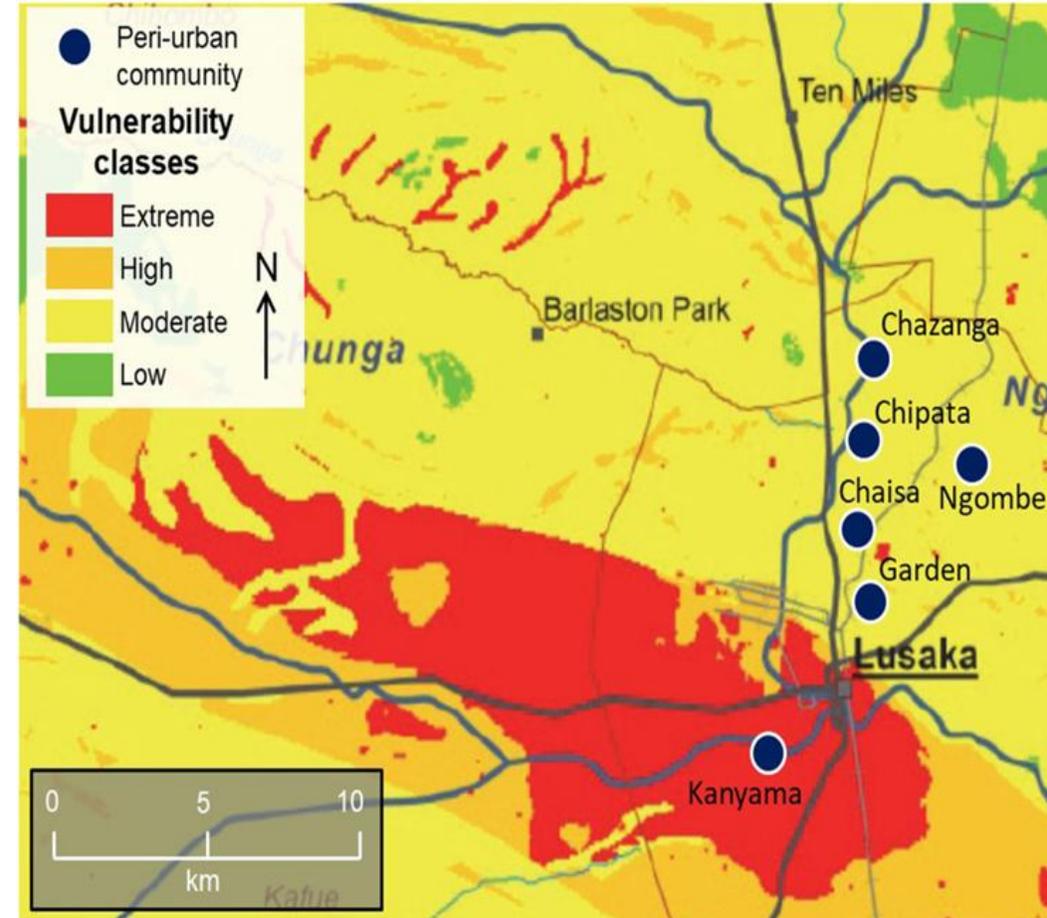
# Community Participation

- Risks: floods, droughts, fragile infrastructure.
- Four-phase resilience cycle:
  1. Assess risks
  2. Identify adaptive options
  3. Deliver solutions
  4. Monitor progress
- **Message:** Resilience must be mainstreamed into WASH planning, not treated as an afterthought.



# Vulnerability Mapping

- Spatial data highlights high-risk peri-urban zones.
- Guides targeted interventions and equitable resource allocation.
- Ensures no settlement is left behind.
- **Message:** Data is power, it directs equity and accountability.



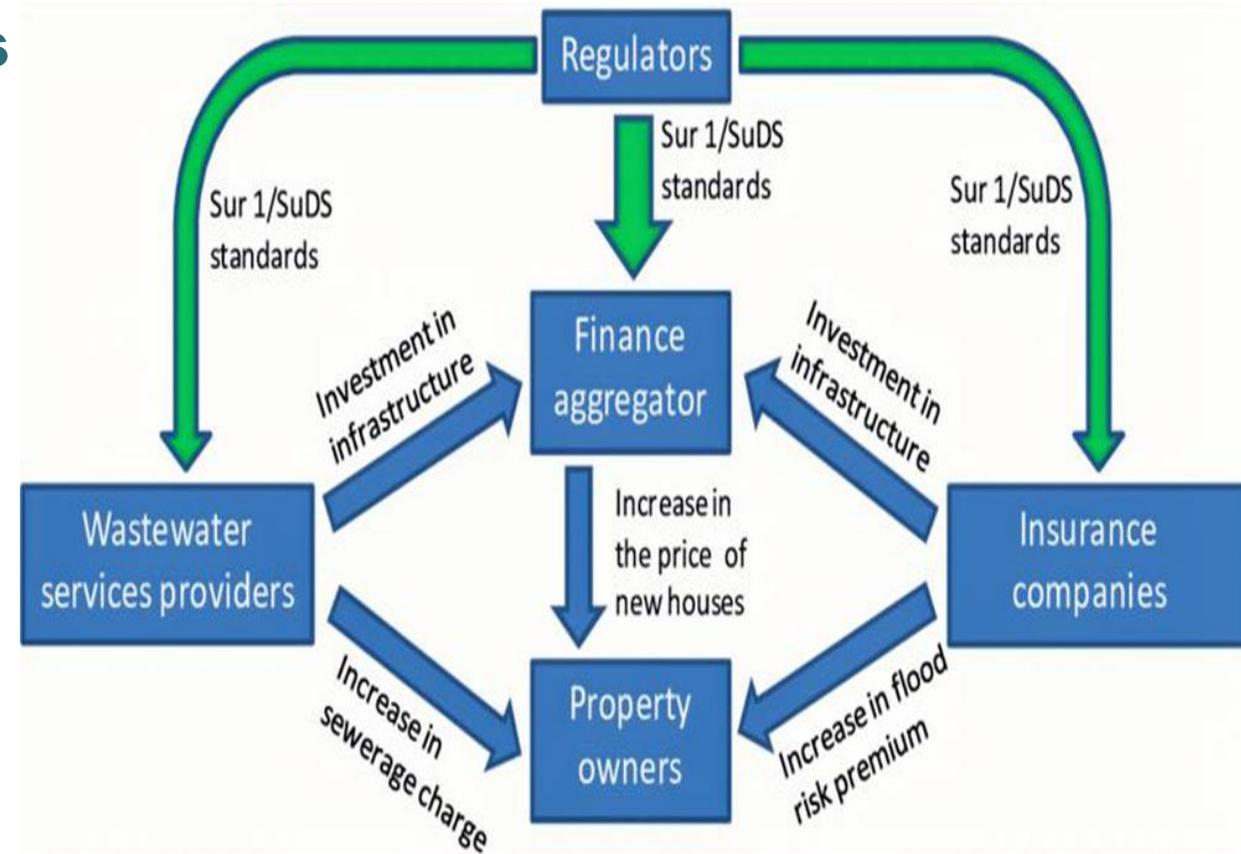
# Circular Economy Models

- Waste transformed into energy, fertilizer, and jobs.
- Sustainable sludge management reduces contamination and environmental risks.
- Creates economic opportunities for communities.
- **Message:** Circular economy is both a resilience strategy and a financing solution.



# Governance & Financing Dynamics

- Regulators → set CWIS and resilience targets.
- Service providers → adjust costs and delivery models.
- Finance aggregators → influence affordability and access.
- Property owners → bear charges/premiums.



•**Message:** Inclusive sanitation requires fair cost-sharing and transparent governance.

# Key Insights

- Governance gaps weaken accountability and equity.
- Financing must prioritize informal settlements.
- Community participation ensures sustainability.
- Climate resilience is non-negotiable for future WASH systems.
- Message:** Equity, resilience, and sustainability must converge.

The WASH governance elements provide a framework for applying good governance practices



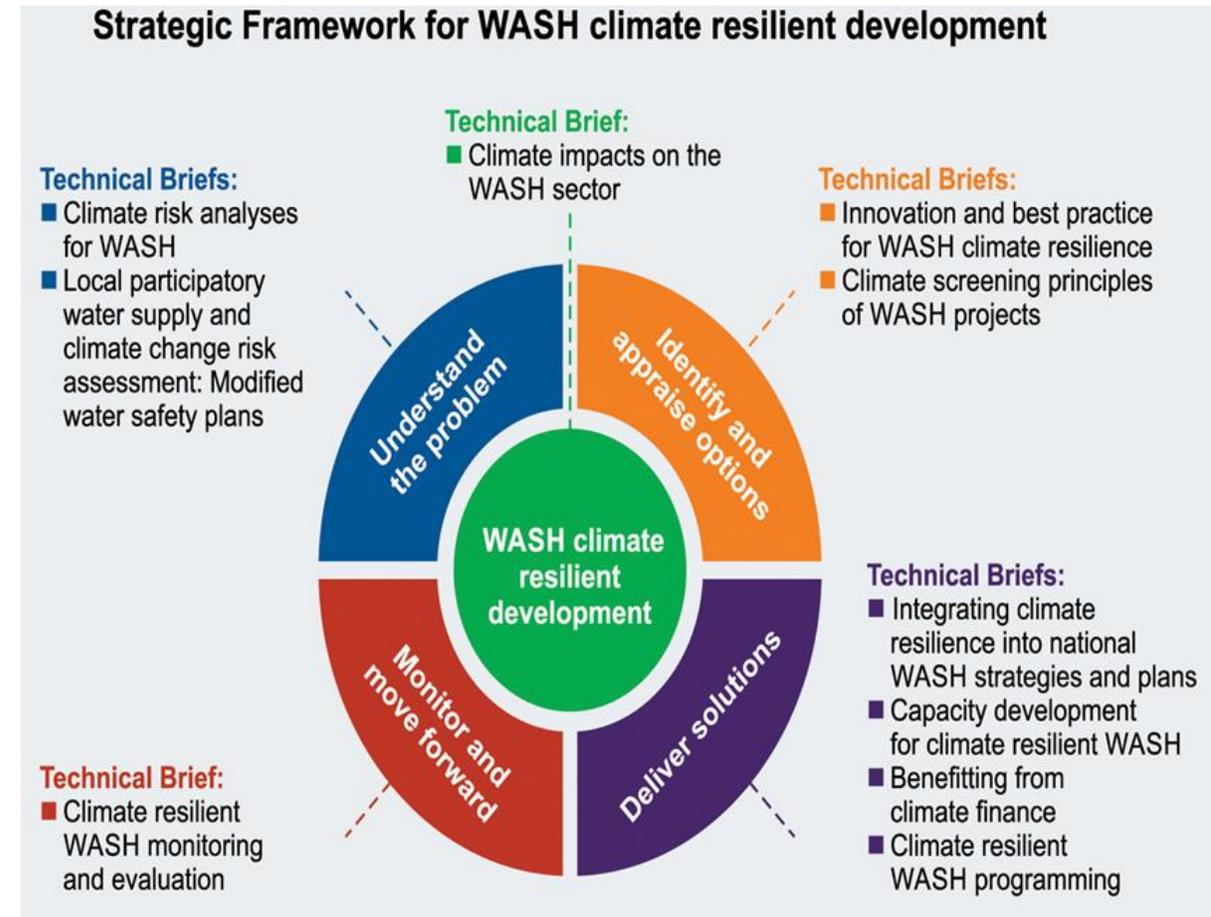
# Recommendations and Call to Action

## Recommendations:

- Strengthen local governance and regulatory frameworks.
- Innovate financing: blended, inclusive, climate-linked.
- Empower communities through participation and ownership.
- Integrate climate adaptation into WASH planning and investment.
- Message: Zambia can set a benchmark for the Global South.

## Call to Action:

- Inclusive, climate-resilient WASH demands decisive action.
- Zambia can set a benchmark for the Global South.
- Transform vulnerability into opportunity.
- Ensure no community is left behind.



# Thank You

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