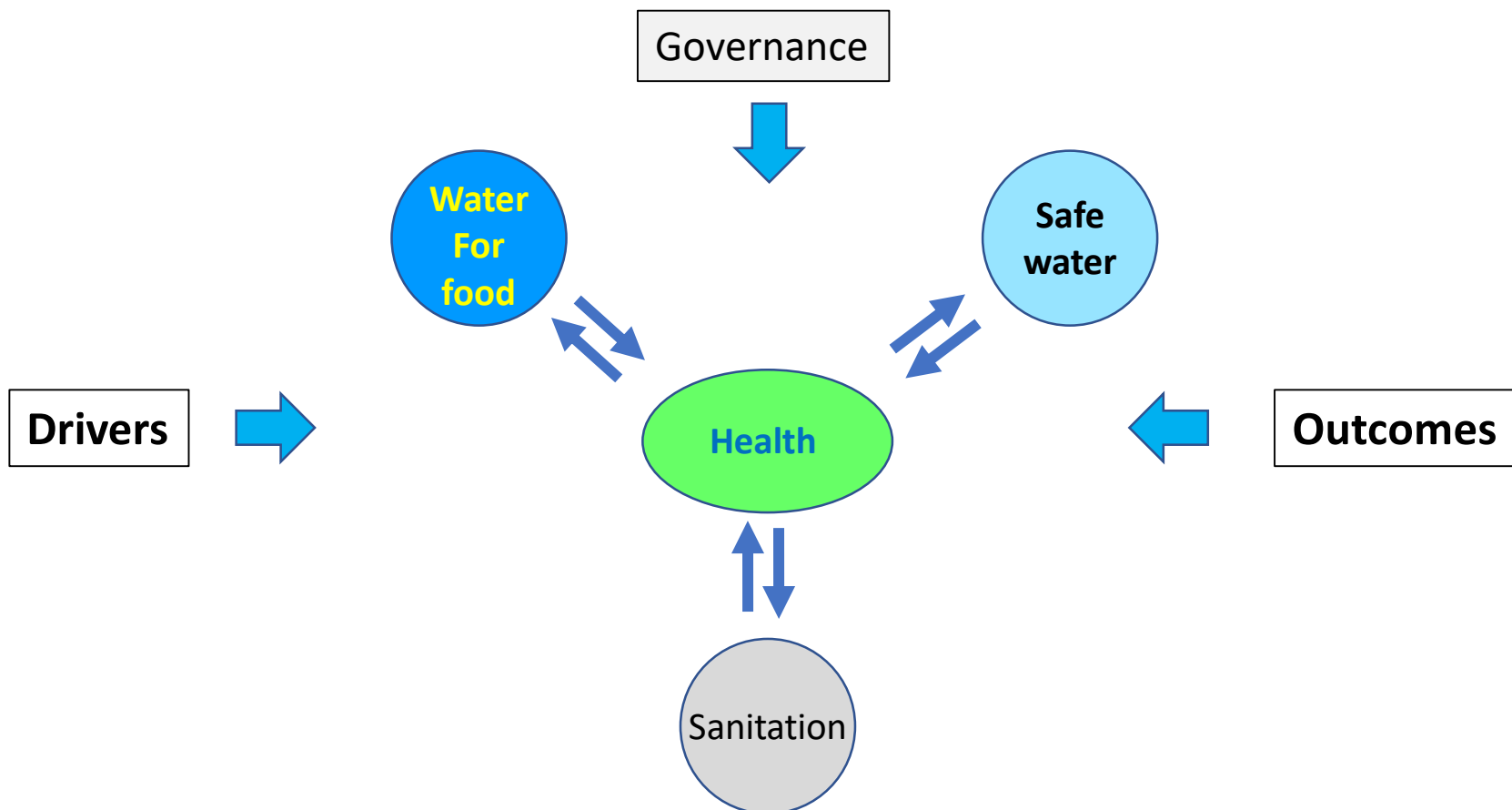


Breaking organizational stovepipes

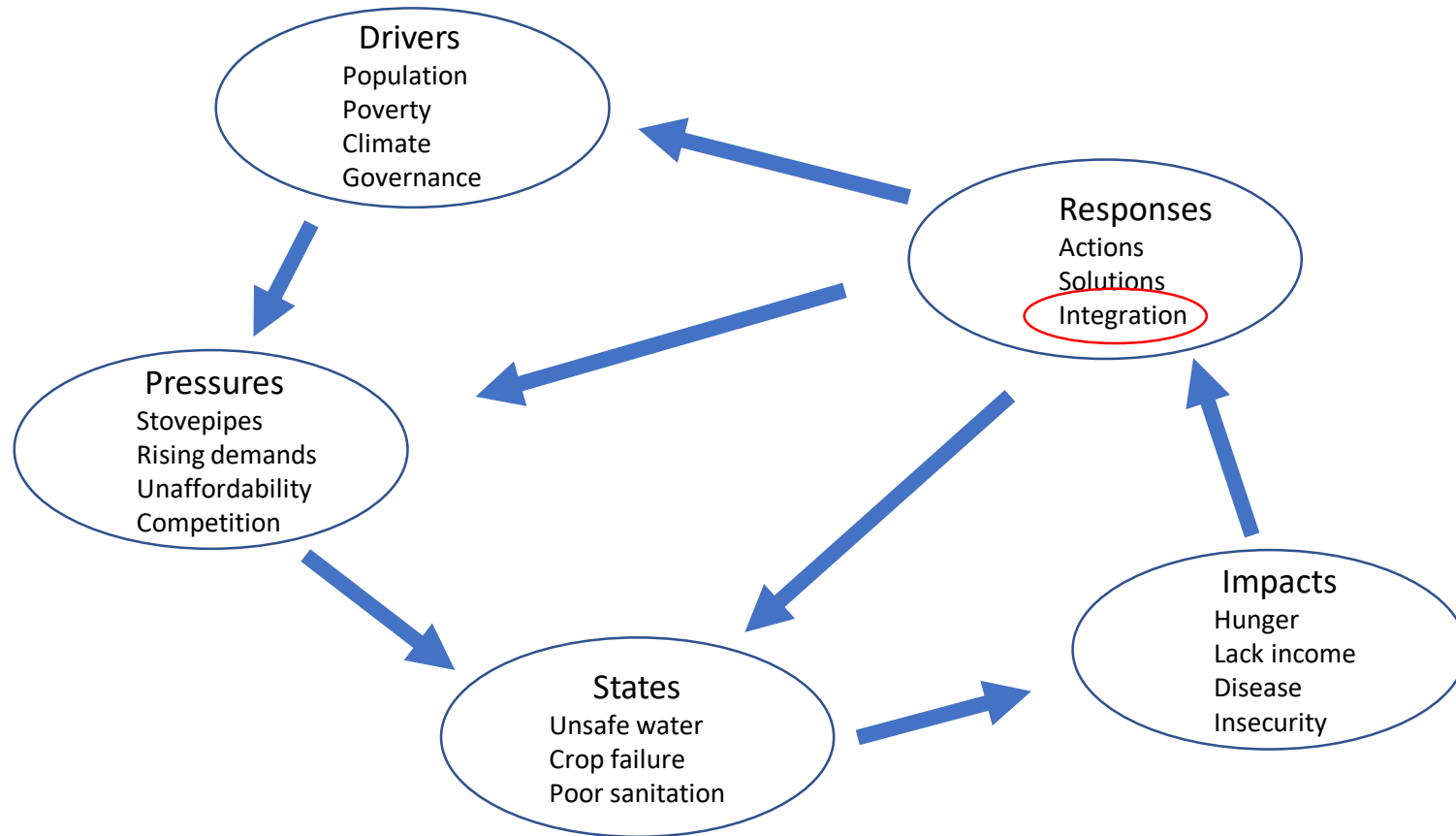
Connecting water, sanitation, food, and public health

Neil Grigg, Colorado State University

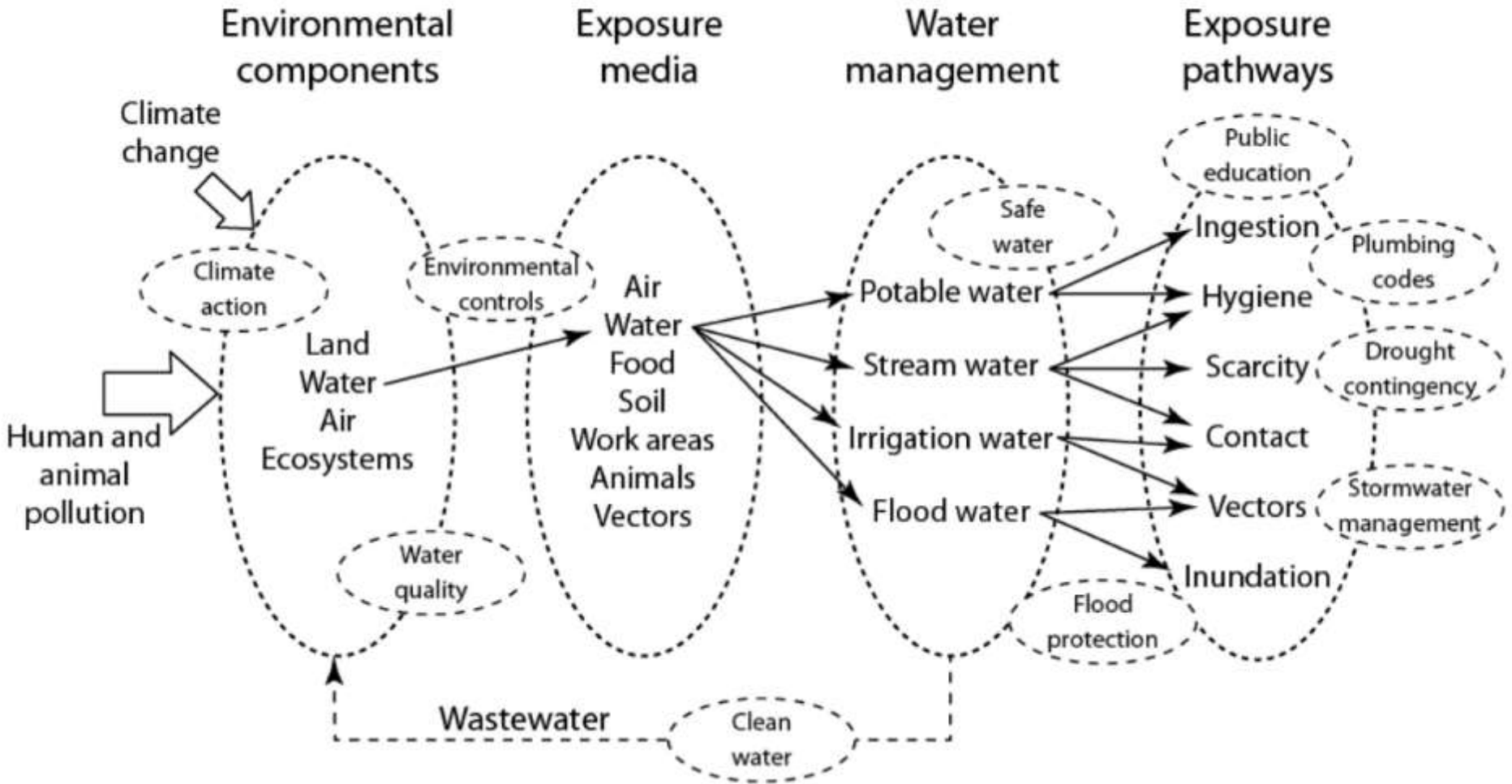


Why stovepipes are a problem

Barriers to Water—Food—Sanitation—Health Systems

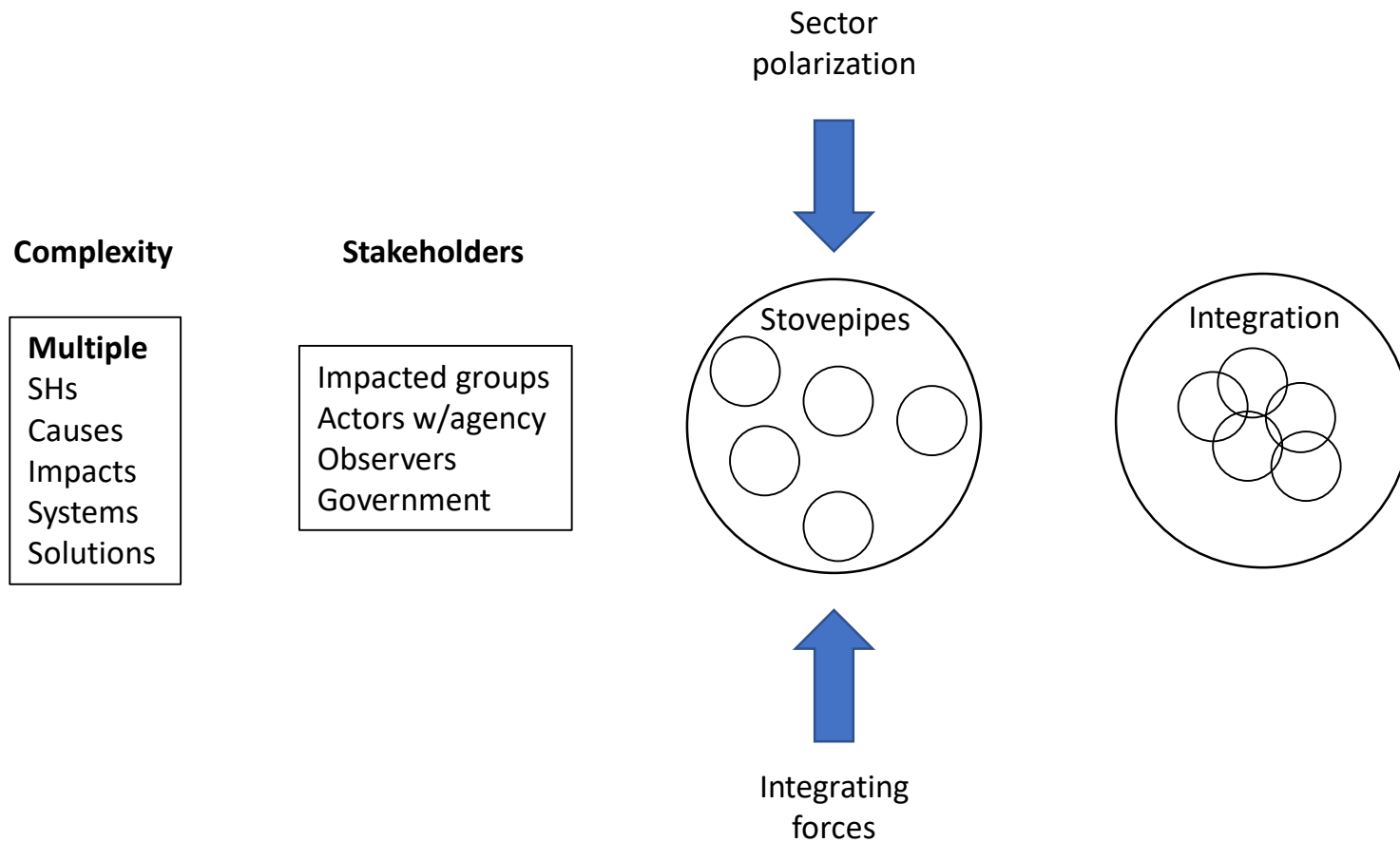


Water—Sanitation—Health Pathways



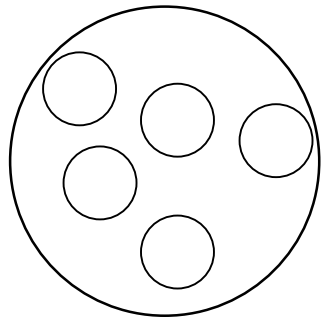
Sector polarization and stovepipes

A conceptual model

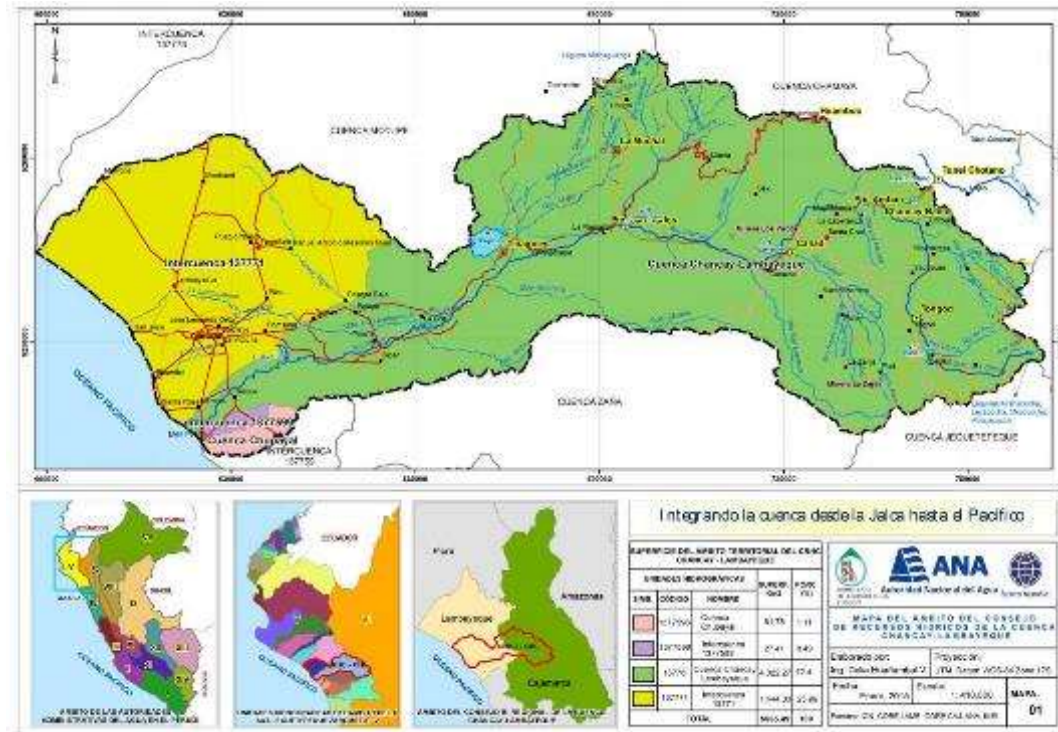
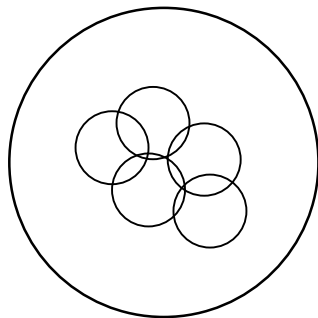


Archetype: City pollutes irrigation water

Before: city shirks responsibility to treat sewage, impacts powerless farmers



After: NGO intervention for mediation and to provide resources provides resolution

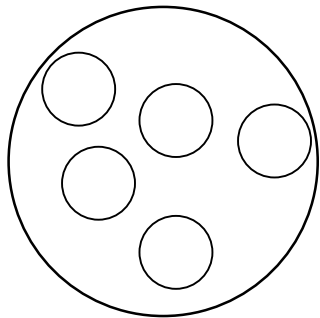


Chancay-Lambayeque watershed

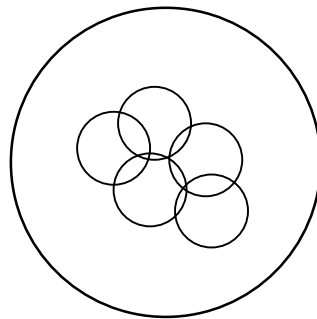
GWP case: Peru: Treated waters - communal participatory management and its impact on human development and ecosystem (#436)

Archetype: Farmers and collective action

Before: farmers work
Independently, water
quality/sanitation poor



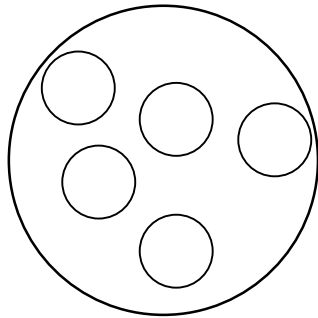
After: Community Water
center coordinates,
improves management



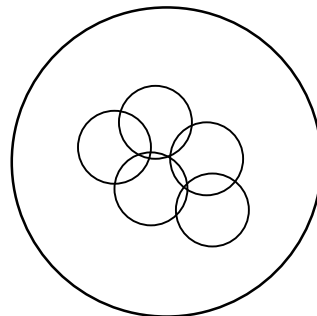
USWA case: Community Water Center Helps San Joaquin Valley
Residents Build Water Knowledge

Archetype: Water scarcity and sanitation

Before: farmers independent, water waste, quality/sanitation



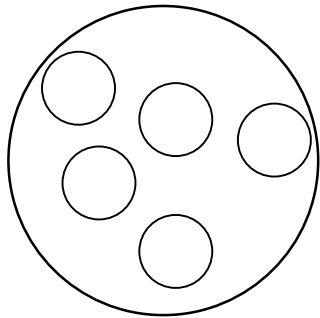
After: Water User Association, self-organization, improve management



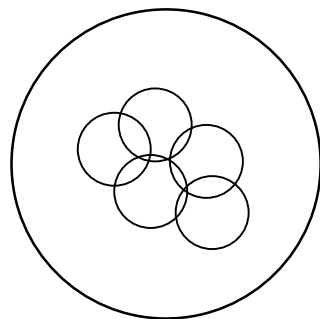
GWP cases: Egypt: The role of water users' associations in reforming irrigation (#110); Brazil: An innovative management model for rural water supply and sanitation in Ceará State (#411)

Archetype: Integrating urban services

Before: city agencies
have separate projects
and programs



After: City water
Cabinet forges
Cooperation for
Joint programs and
Projects



GWP case: Pakistan: A Successful Model of the Urban Water Partnership in Karachi (#440)
USWA case: One Water LA Exemplifies an Integrated Approach to Planning

Gaps and solutions

Stovepipes

City and irrigators
Irrigators and irrigators
Regulators and stakeholders
City agency to city agency



Tools

Systems analysis
Institutional analysis
DPSIR
IWRM—One Water—Nexus
Problem archetypes
Case studies



One Water

External NGO with funding
Local NGO as Water Center
Governance/leadership
Water user association
Coordination agency

Lessons and road map

- Collective action, break barriers, resolve stovepipes
- Integrative methods - IWRM and One Water
- Farmers/citizens lack power without organization
- Polarizing forces create stovepipes, block solutions
- Systems tools identify stovepipes
- Stovepipes may require external intervention

Case study references

Global Water Partnership. 2021. Case studies.

https://www.gwp.org/en/learn/KNOWLEDGE_RESOURCES/Case_Studies/

U.S. Water Alliance. 2016. One Water Roadmap.

<http://uswateralliance.org/sites/uswateralliance.org/files/publications/Roadmap%20FINAL.pdf> A