Resilient Water Governance
Arup

Arup is an independent firm of multidisciplinary designers, engineers, architects, planners, and technical specialists working across every aspect of today’s built environment.

Arup was founded in 1946 by Ove Arup, a gifted engineer-philosopher with an original and restless mind. Arup is owned in trust for its members, still guided by its founder’s spirit and principles. We choose work where we can make a real difference in the world, stretch the boundaries of what is possible, help our partners solve their most complex challenges and achieve socially valuable outcomes.
The Resilience Shift
Building Resilience
City Engagement

Fieldwork in eight cities with direct engagement of more than 700 people.
Key Shocks and Stresses

• Drought
• Flooding
• Fire
• Inadequate hygiene and sanitation
• Ecosystem loss
• Risk of over-abstraction or pollution of groundwater

Factors of resilience

• Interconnected infrastructure
• Technological solutions for demand management
• Citizen and community engagement (water outlook, dam level dashboard, City Water Map, Day Zero campaign, Section 80 committee)
• Business support (GreenCape and Wesgro, e.g. Sustainable Water Use Journey)
• ISN/CORC/SDI/CoCT/Communities Reblocking
• Transfer of Stormwater Department to CoCT Water and Sanitation Department
• Conflicting messages from different spheres of government
• Lack of clear roles and responsibilities at different spheres of government
• Impact of public engagement on global perception
• Limited data, particularly around groundwater
• Limited regulation and enforcement around groundwater, pollution.
• Lack of funding (ongoing and contingency funding) at a National level for bulk water provision
• Social inequality

City Engagement
How can we shift perception from a siloed perspective to a holistic one?
A Collaborative Approach