Institutional silos for governance across boundaries and sectors of water cycle (RUBAN)

Climate impact on water cycle not adequately addressed

Top-down planning with low level of participation

Isolated funding mechanisms for specific sectors of the water cycle

Lack of awareness about benefits of integrated water management approaches

**OBJECTIVE**

Adopt Integrated Water Resource Management for climate change adaptation

**OUTPUTS**

- RURAL - URBAN PLATFORM (RURBAN)
- DECISION SUPPORT TOOL (DST)
- CATCHMENT MANAGEMENT PLAN (CMP)
- COMPENDIUM OF POTENTIAL FINANCING SOURCES
- CAPACITY BUILDING AND DISSEMINATION

Supported by

- IDRC
- CRDI Canada

Implemented by

- IAdapt
- FOR CLIMATE BASED ADAPTATIONS

INTEGRATED RURAL URBAN WATER MANAGEMENT
FOR CLIMATE BASED ADAPTATIONS

**Vijayawada**

**Solapur**
**PROJECT OUTPUTS**

**TIMELINE**

**2017**

- a) Catchment delineation
- b) Identification of most vulnerable pilot catchment
- c) Baseline documentation of pilot catchment
- d) Constitution of RURBAN platform

**2018**

- e) Hydrological and climate modelling for pilot catchment
- f) Decision Support Tool framework
- g) Catchment Management Plan framework
- h) Capacity building

**2019**

- i) Decision Support Tool implementation
- j) Development of Catchment Management Plan
- k) Training manual for DST and CMP framework
- l) Innovative financing options for CMP implementation
- m) Dissemination
RURBAN PLATFORM
Integrated governance mechanism with rural and urban stakeholders

RURBAN PLATFORM MEMBERS

CORE TEAM

PROJECT NODAL OFFICERS

Rural ↔ Urban

CITY- Vijayawada

DISTRICT- Krishna

STATE- Andhra Pradesh

OTHER STAKEHOLDERS

DECISION SUPPORT TOOL FRAMEWORK
Facilitates scientifically informed decision making

CATCHMENT MANAGEMENT PLAN
Manage water while addressing issues of climate change

Engagement Phase
RURBAN platform

Baseline Assessment
Data acquisition and analysis of pilot catchment on socio-economic, environmental, governance, infrastructure aspects

Vulnerability Assessment –
Climate scenario assessment, Water balance, Integration assessment, Fragile systems assessment, Risk assessment, Actor analysis

Solutions Assessment –
Resilience interventions and their prioritisation, Decision Support Tool framework

Development of Catchment Management Plan –
Catchment management action plan, implementation and monitoring framework
SITE RATIONALE

**Site: Solapur City**
- Key facts:
  1. High Non-Revenue Water losses (50-60%)
  2. City's dependence on water source which is 100km away from city - high transmission & distribution costs
  3. Ground water depletion
  4. Water quality degradation at Ekrukh lake

**Site: Vijayawada City**
- Key facts:
  1. Interstate water conflicts
  2. Increased migration
  3. Flood hazards
  4. High evapotranspiration
  5. Poor water quality
  6. Groundwater depletion

CAPACITY BUILDING
On IWRM, climate change, scientific decision making
- Exposure visit for catchment managers to other cities in India
- Hands on training by experts at pilot catchment for stakeholders
- CMP and DST training for Catchment managers

Dissemination
- IAdapt brochure
- Peer reviewed publications
- National/State level workshops, conferences

INNOVATIVE FINANCING MECHANISMS
Compendium of financing options to implement IWRM
- Endogenous (direct and indirect charges)
- Exogenous (pool of external finance) options

PROJECT PARTNERS

**ICLEI South Asia**
ICLEI South Asia is the South Asian arm of the world's leading association of local governments, including more than 1500 metropolises, cities, urban regions and towns.

**Athena Infonomics LLC:**
Athena Infonomics is a data-driven global consultancy who drives innovative thinking in program strategy and design, project implementation and impact assessment across the full spectrum of economic growth and development challenges through focus on extraction and use of high quality data, social science research methods and new age technology.

**Indian Institute of Technology, Madras:**
Indian Institute of Technology Madras is one among the foremost institutes in India for higher technological education and applied research.

**International Water Management Institute (IWMI):**
The International Water Management Institute (IWMI) is a non-profit, scientific research organisation focusing on the sustainable use of water and land resources in developing countries.