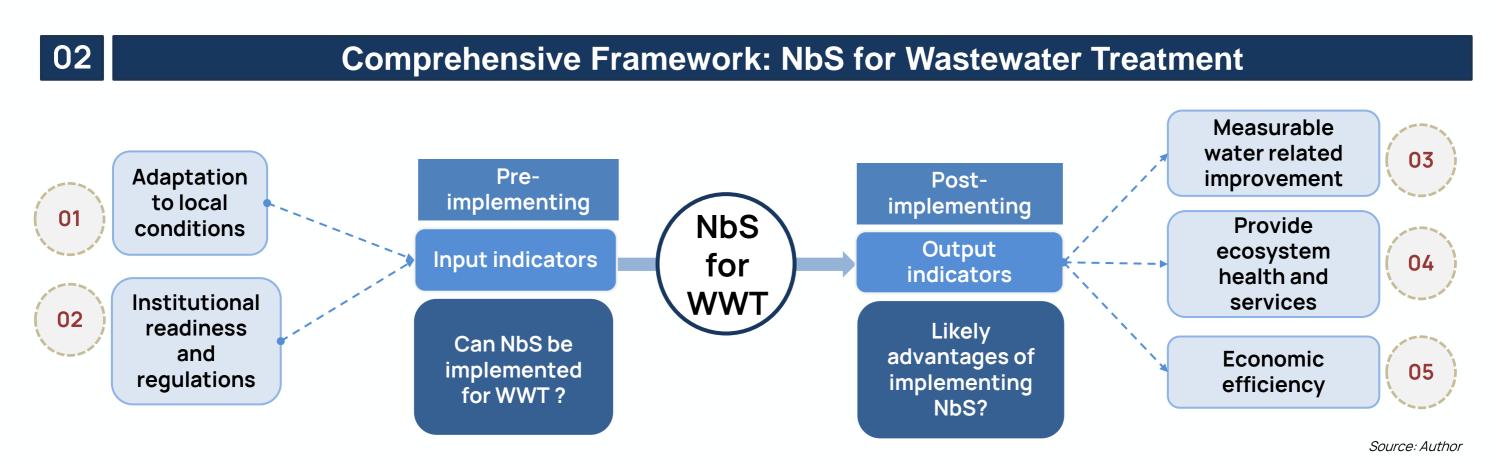
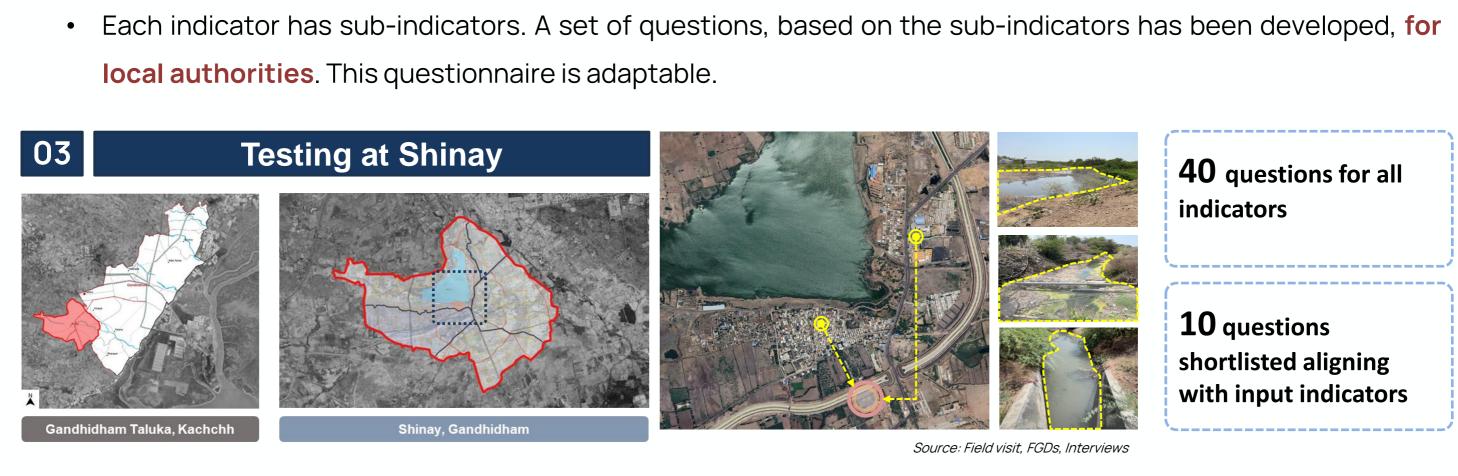
Problem Statement

India's rapid urbanization has intensified the need for alternatives to energy-intensive and costly conventional wastewater treatment (WWT) facilities. This research explores Nature-based Solutions (NbS) for eco-centric treatment methods and seeks to develop a comprehensive framework to inform decisions on adopting NbS in WWT.



Two-part Framework

- Input (pre-implementation) indicators help determine if NbS for WWT can be adopted or not.
- Output (post-implementation) indicators suggest possible advantages.



Why Shinay? This case site, in water-stressed Kachchh district, was chosen because the community is endeavoring to establish a WWT facility.

Based on our questionnaire, input indicators suggest that NbS for WWT facility can be adopted in Shinay.

March 1997

Outcomes lay the groundwork for informed decisionmaking and effective implementation of NbS in wastewater treatment across diverse Indian contexts.

7 AFFORDABLE AND CLEAN ENERGY 11 SUSTAINABLE CITIES AND COMMUNITIES IMPROVE WATER QUALITY, WASTEWATER TREATMENT AND SAFE REUSE





SDG linkages of NbS for WWT

Economic

Potential cost savings of up to 50% in capital and operational costs

Environmental

Promising path towards more environment friendly wastewater management.

SCAN FOR MORE





The research has been carried out as an academic project with CEPT University, Ahmedabad and funded by Global Sanitation Graduate School (GSGS)



Social

Community participation

and empowerment.

Foster a sense of ownership

Exploring Avenues of Nature-based Solutions for Wastewater Treatment in India

Category: **Enabler** (Research) Author: **Aswin S Kumar**

Guided by: **Siddh Doshi**