



Call for corporate action

CSR for Improved Water and Sanitation

Gujarat Chamber of Commerce & Industry

**CSR Roundtable Meet
Saturday, 18th December, 2021**

**Meera Mehta and Dinesh Mehta
Center for Water and Sanitation, CRDF, CEPT University
Dec 2021**

CWAS CENTER
FOR WATER
AND SANITATION

CRDF CEPT RESEARCH
AND DEVELOPMENT
FOUNDATION

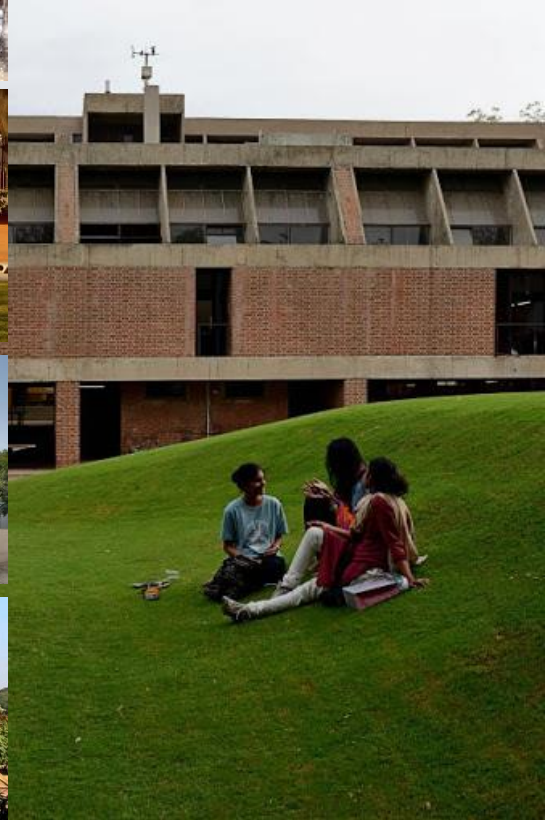
**CEPT
UNIVERSITY**

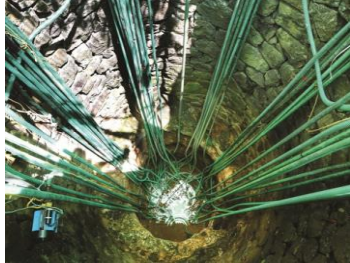
CWAS and WASH action

CEPT University's core focus is human habitat. Through its education, research and advisory activities, it strives to improve the impact of habitat professions in enriching the lives of people in India's villages, towns and cities.

CEPT Research and Development Foundation (CRDF) has been established by the University to manage their research and capacity building activities. There are nine domain-focused centers in the CRDF. The Center for Water and Sanitation (CWAS) is among the first center to be established.

CWAS began its work in 2009 with focus on improving water and sanitation services in India. It carries out activities related to action research and capacity building – working closely with city and state governments, enabling them to improve delivery of services. CWAS is closely engaged with Faculty of Planning at CEPT University. CWAS team teach and guide students of Faculty of Planning.





Safe Water Supply and Sanitation - Need of the hour ...

12% of India's population already living the

DAY ZERO

scenario with respect to water. "21 major cities are racing to reach zero groundwater levels, affecting access for 100 million people" --- NITI Aayog

The **AVERAGE** citizen receives **114 LPCD**

but

more than **40% CITIES** supply less than **70 LPCD**

POOR SANITATION

in India is estimated to cause

6.5% GDP LOSS

according to a World Bank study.

98% CITIES ODF

but by some estimates upto

81% OF WASTEWATER UNSAFELY DISPOSED

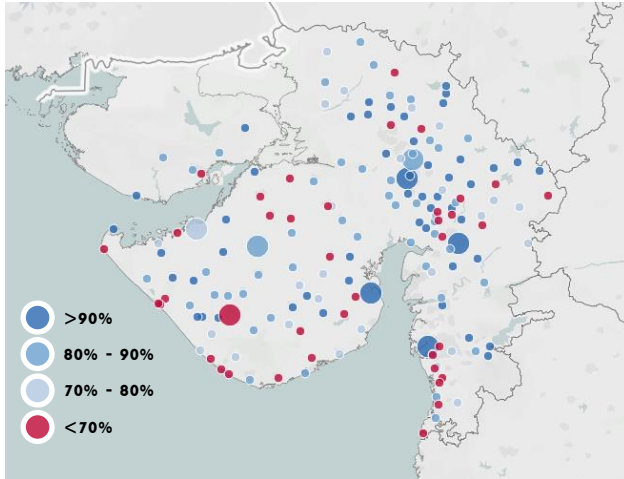
... especially in context of climate vulnerability and resilience

India is **7th most climate vulnerable**

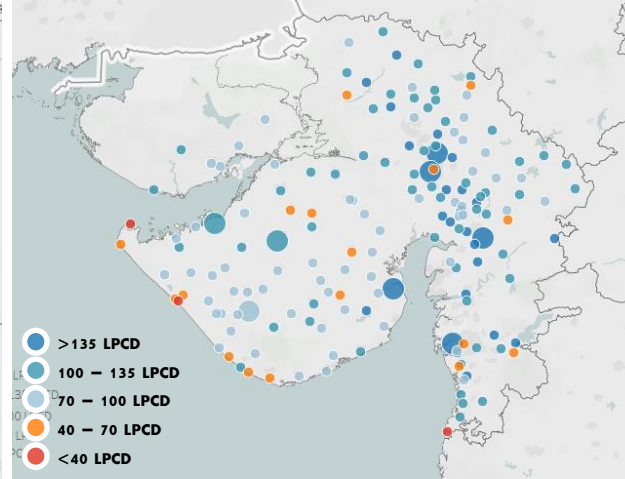
country in the world due to its diverse ecology!

Water supply – attention needed on improving service levels – Increased daily supply, number of hours, and a focus on Saurashtra

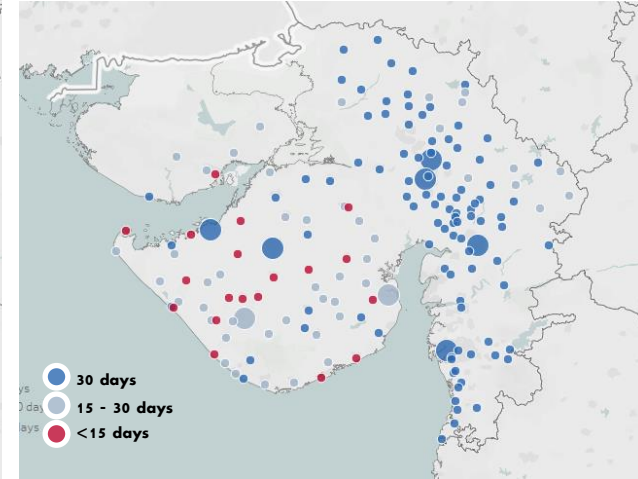
Household level WS coverage



Liter per capita at consumer end



Continuity of WS at consumer end



* Size of the dot denotes class of the city

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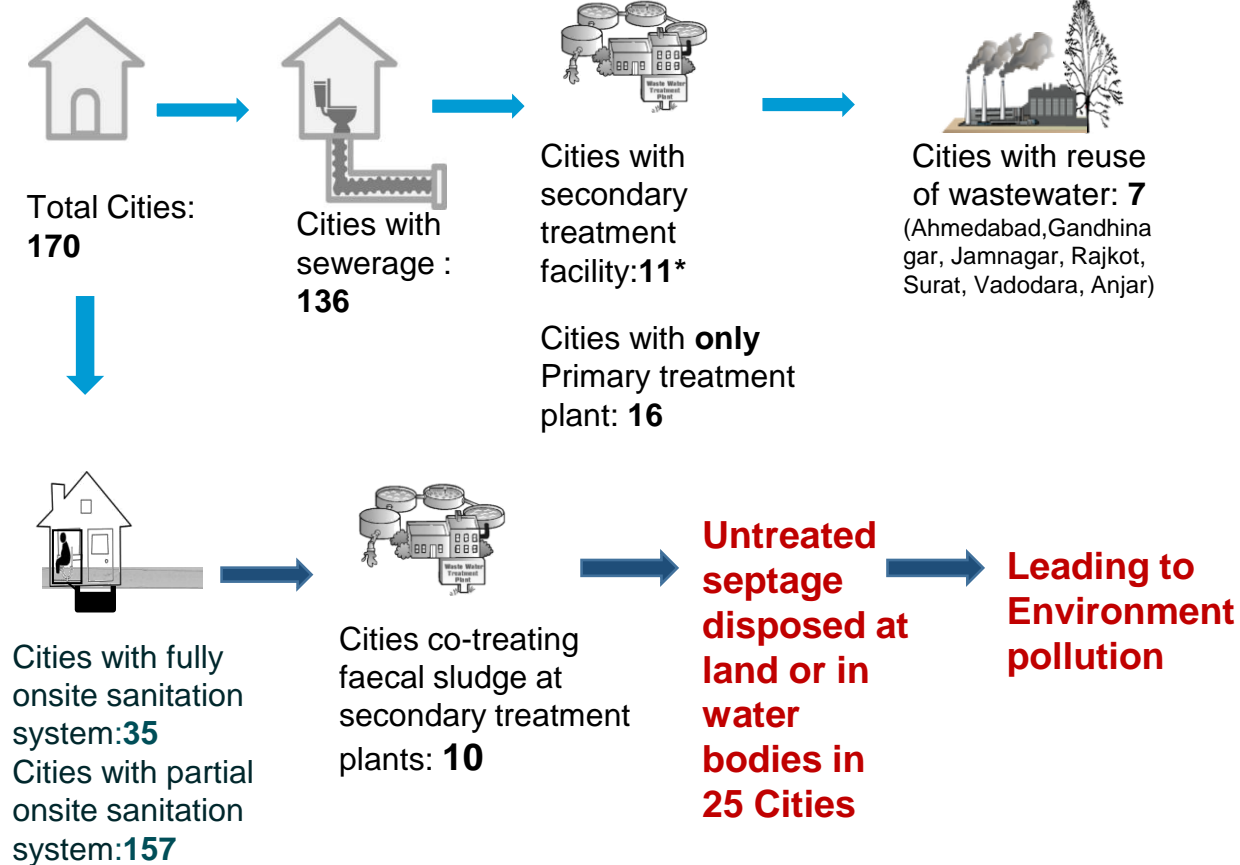
* Size of the dot denotes class of the city

90% households have water supply connections - But 39 small and medium cities have less than 70% coverage

15 % cities have higher than 135 lpcd, but 12% of cities have less than 70 lpcd

Many ULBs do not supply daily
Alternate day: 28% of cities
Less than 15 days: 11% of cities

Attention is needed for Onsite Sanitation Systems and Reuse



Good progress on **Sewerage** in the last decade. 136 cities have sewerage and STPs under progress

But attention needed on reuse to become WATER+

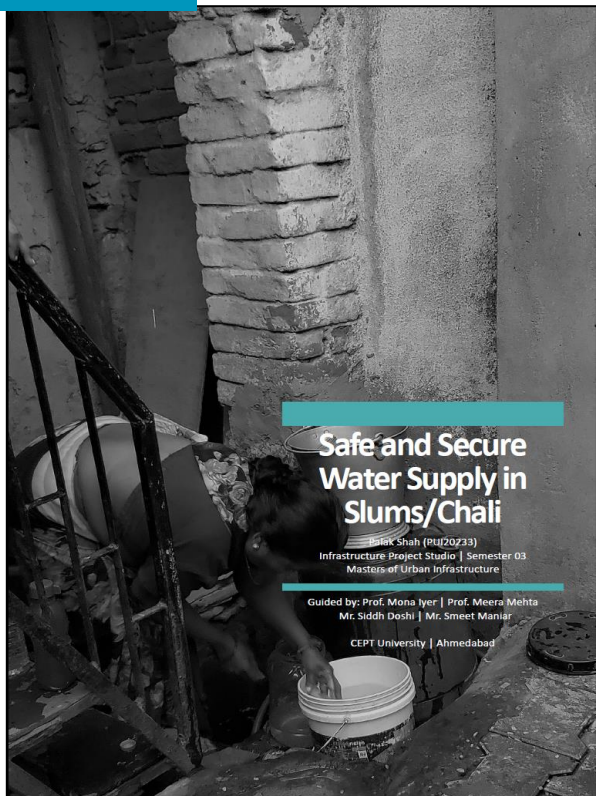
35 cities fully depend on **Onsite Sanitation** system and 157 cities partially dependent on onsite sanitation



Potential areas for CSR support for Water and Sanitation

1

Slums – improving connectivity and service levels



Safe and Secure Water Supply in Slums/Chali

Pratik Shah (RU120233)
Infrastructure Project Studio | Semester 03
Masters of Urban Infrastructure

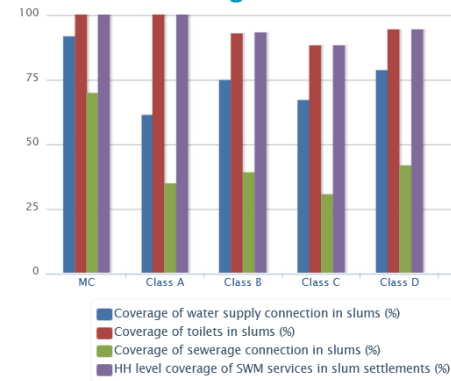
Guided by: Prof. Mona Iyer | Prof. Meera Mehta
Mr. Siddh Doshi | Mr. Smeet Maniar

CEPT University | Ahmedabad

Slums - poor infrastructure services like water supply and sanitation contribute to higher health risks

Many opportunities to improve connectivity, provide local 24*7 water supply, ensure 100% access to IHHTs, internal drainage network

Gujarat – Access in Slums according to PAS data



Assessment of situation in slums regarding access to water



Plans for improving access to water in these slum pockets



Tracking drinking water quality - Engaging SHGs, school children, youth groups

2

Water Audit to assess and reduce Non Revenue Water



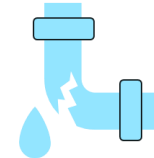
City Water Balance Plans to assess NRW and identify improvement projects

Water audits are needed to identify losses

Metering needed urgently in all cities – bulk water meters and consumer meters



How much water is being lost?



Where are losses occurring?



Develop strategies to reduce losses and improve performance

3

Women Empowerment

Enabling formal links of SHGs with municipal authorities

Increased access to credit for sanitation through Self Help Groups, bank linkages for priority sector lending, small finance banks

Support engagement of Self Help Groups by Municipal Governments through formal Contracts – municipal gardens, public toilets, awareness activities

Strengthening capacity and awareness of women councillors in small and medium cities



4

Water Reuse for sanitation resource parks and urban forests



- Gujarat has STPs in 43 cities – 7 reuse water
- Convert STPs to Sanitation Resource Parks for training, awareness and dissemination
- Urban forests to promote reuse of treated wastewater and create carbon sinks
- SHGs to manage resource parks /urban forests.



Treatment facilities will be converted into **Sanitation resource parks**



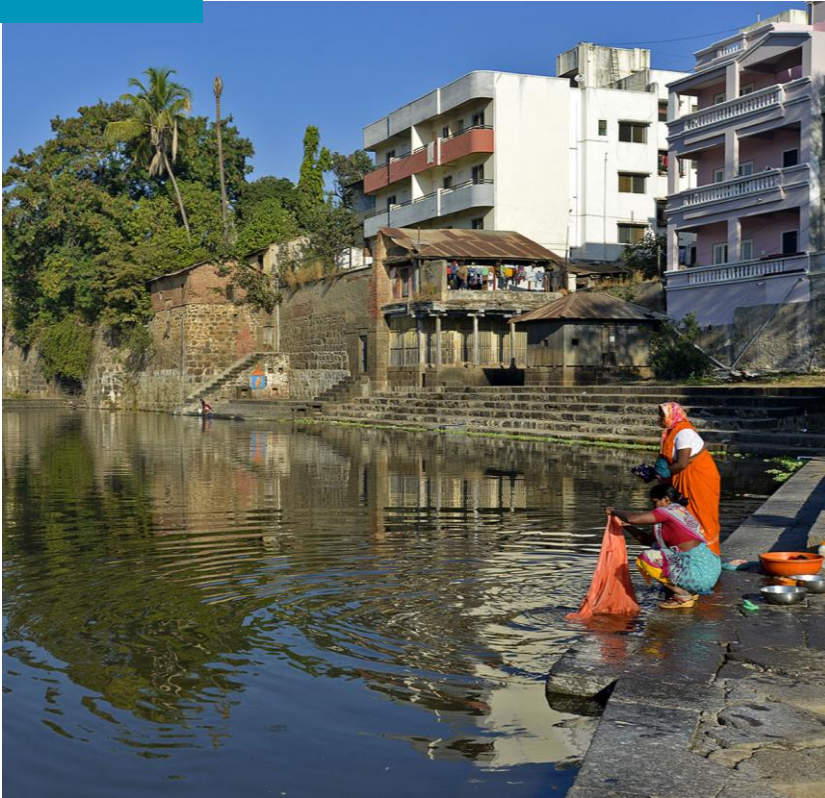
Develop **urban forests** to promote **reuse of treated wastewater**



SHGs groups will be explored for carrying out O&M

5

SMART Water and Sanitation Fellowships at Centre for Water and Sanitation, CRDF, CEPT University



- Need for **Young Professionals** to improve water sanitation services in Gujarat Cities
- **Upskilling of In-Service officers** to keep up with new and innovative technologies
- **“In-Kind Voluntary” support** to CWAS from Corporates engaged in water and sanitation

Digital monitoring and IOT in
Water and Sanitation

Reducing industrial effluents in
water body

Harnessing traditional water
conservation practices – tankas,
recharge wells

Development of community
green spaces linked to a clean
water body

CWAS

CENTER FOR WATER AND SANITATION

CRDF

CEPT RESEARCH AND DEVELOPMENT FOUNDATION

CEPT UNIVERSITY

वाई नगरपरिषद, वाई.

स्वच्छ सर्वेक्षण

वाई नगरपरिषद, वाई.
 'वाई नगरपरिषदेची सांखिक टंक कालखंड भौतीन स्वच्छ कार्याची अतोवी योजना'
 या योजनेच्या अंतर्गत नगरपरिषद हद्दीतील सर्व रहिवाश्यांचा सांखिक टंक उवर्षांत एकदा साफ करणार.
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 नगरपरिषदेच्या सेवेचा लाभ घ्या.

स्वच्छ भारत मिशन

स्वच्छ भारत मिशन

“स्वच्छता हिं”
 कृपया येथे थुंबू नसे. व क
 कायदेशिर वाई केल

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About us
 The Center for Water and Sanitation (C-WAS) at CEPT University carries out various activities – action research, training, advocacy to enable state and local governments to improve delivery of services.



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