

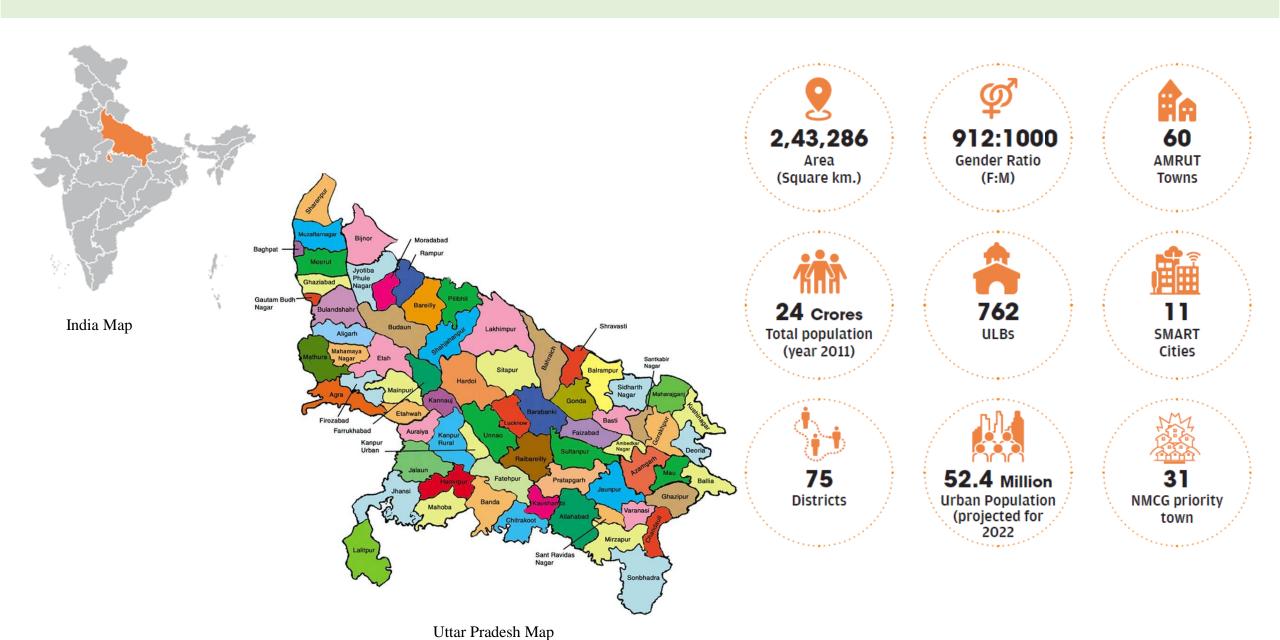
# Journey of Faecal Sludge & Septage Management in UP Challenges & Emerging Priorities

Date: 10th December, 2025

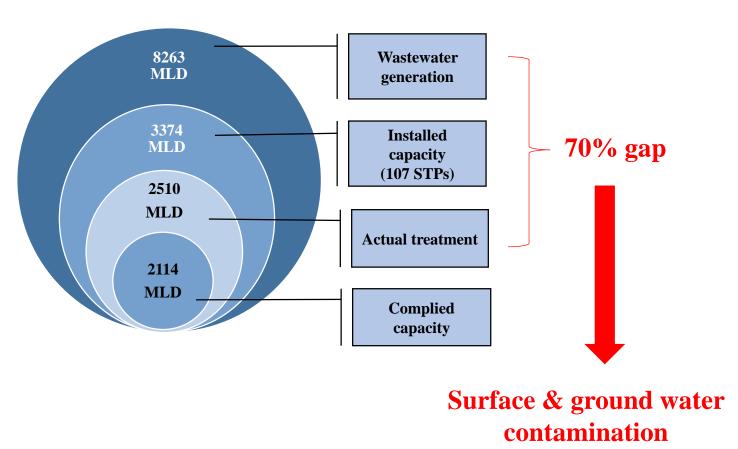


Hari Prakash Haihyvanshi Deputy Programme manager, CSE

### **Uttar Pradesh State Profile**

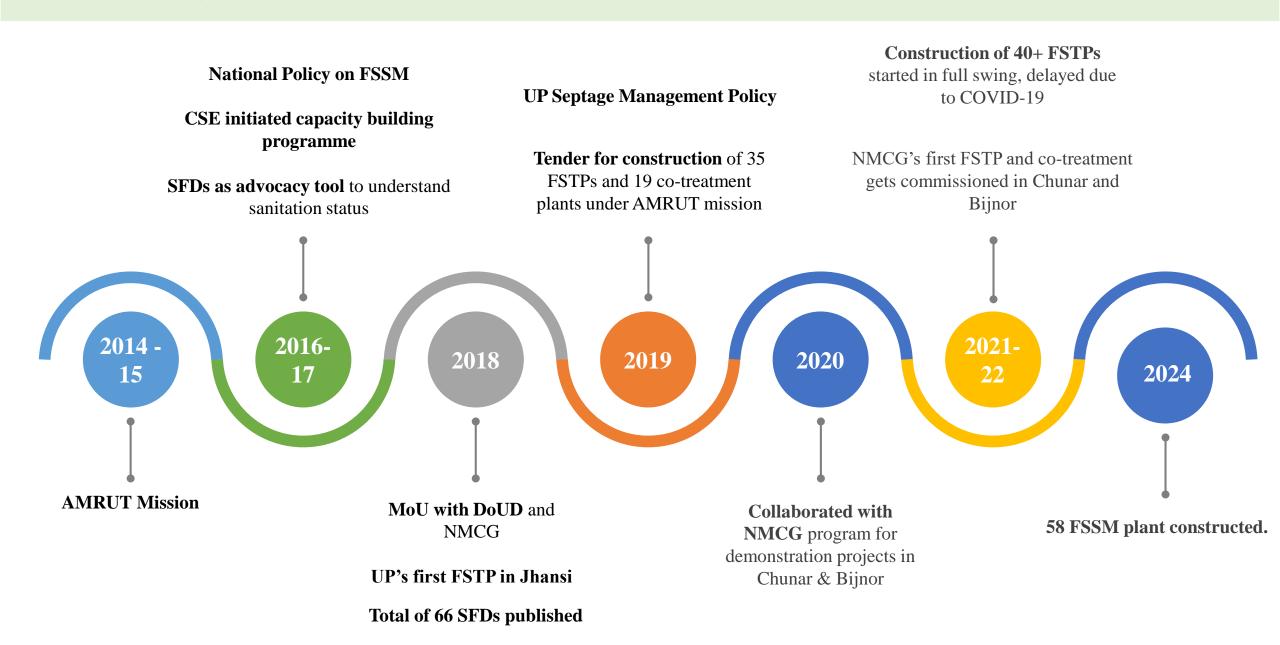


### **UP's Sanitation Profile**

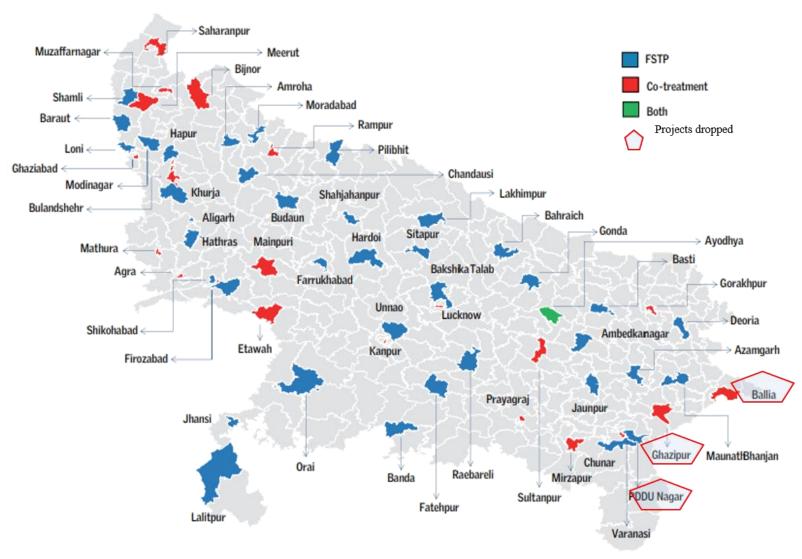


- Out of 762 ULBs in UP, less than 10% ULBs have
   (partial) sewerage network
- Last mile connectivity challenge, as evident from Bijnor, Raebareily, Hapur and many more cities, where sewer connections are very low
- As per UP Septage Management Policy 2019, 86%
   HHs are reliant on On-site sanitation in urban area
- A large number of ULBs, around 650+, are small and medium, unlikely to get sewerage system in the near future

## **UP's Journey to Cleaner Cities**



## **Geographical Spread**



- > 59 treatment plants, across 56 ULBs
  - 39 FSTPs (1141 KLD)
  - 20 co-treatment facilities (845 KLD)
- > 58 plants constructed and operational

Funding agency	No of plants	Total Capacity (KLD)	Capex (Crore)
AMRUT	54	1913	198.3297
ULB (14th FC)	3	43	5.65
NMCG	2	30	2.5842
Total	59	1986	206.5639

Map: UP map showing plant location

## Glimpse of Faecal Sludge Treatment Plant (FSTP)

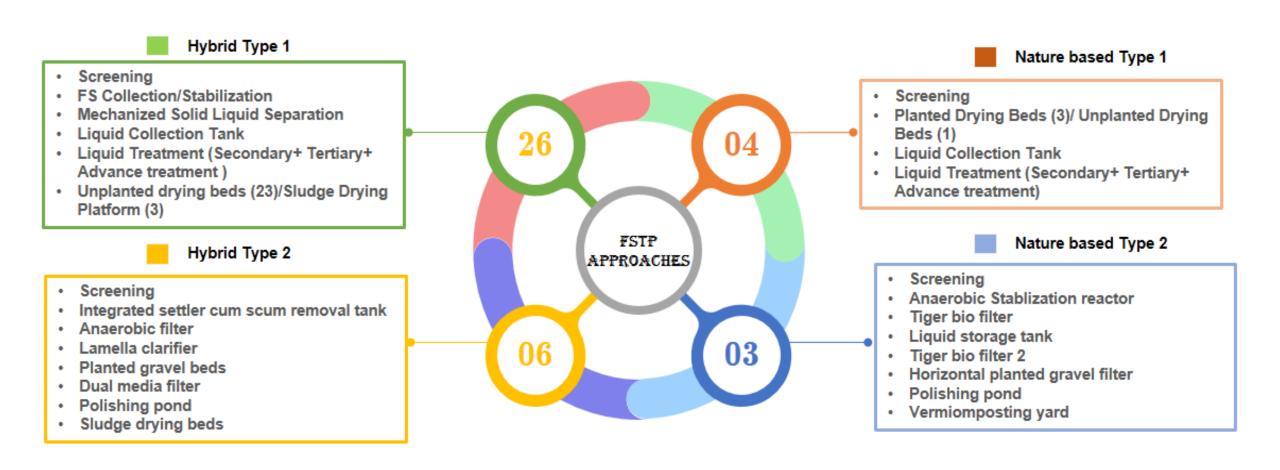


**Jhansi Municipal Corporation** 

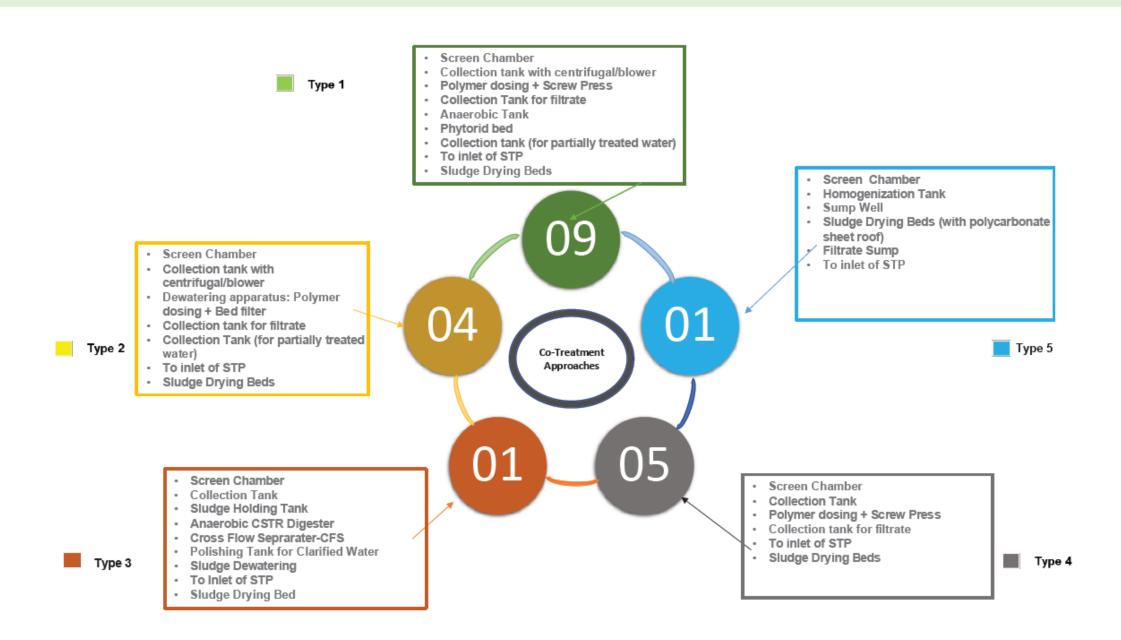
**Orai Municipal Council** 



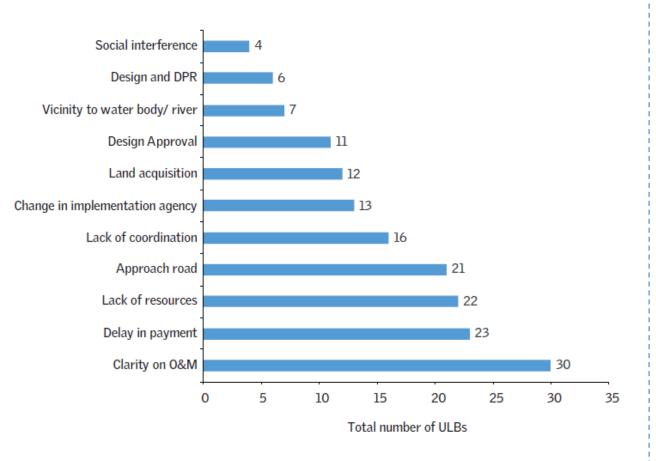
## **Different Types of Treatment systems - FSTPs**



### **Different Types of Treatment systems – Co-Treatment Plants**



## **Challenges During Construction and Operational Phase**



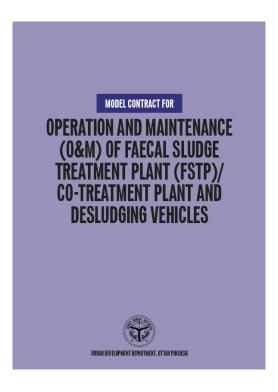
Handover of the plant Arrangement for O&M of plants 3 Capacity gap for O&M of plants 4 Integrating private desludging operators 5 Implement regulatory framework Low capacity utilisation of plants 6 Lack of community awareness

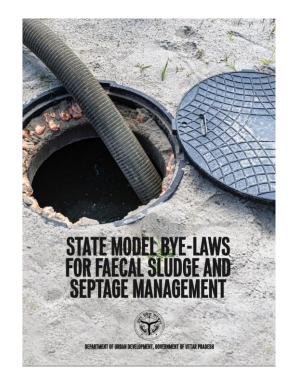
**Construction phase challenges** 

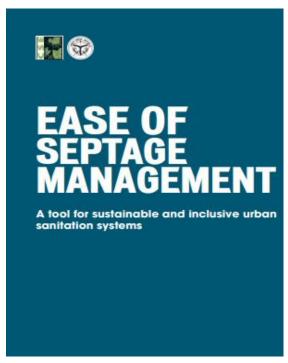
**Operational phase challenges** 

## Major Steps Taken to Operationalize the Plants by the State









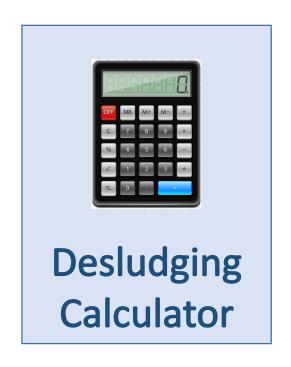
O&M Guidance - reduced cost from Rs. 1.25 Cr/yr for 32 KLD to Rs. 16-18 Lakh/32 KLD plant

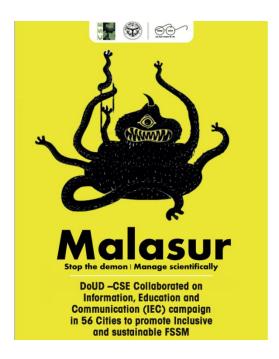
Model contract document - for developing tender for O&M of plant

State model bye-laws – for easily drafting city specific FSSM Bye-laws

ESM tool - to monitor ULB progress in septage management on Functionality, sustainability and inclusiveness

## Major Steps Taken to Operationalize the Plants by the State









**Desludging calculator** - An aid to the Cities to scientifically fix the desludging fee

IEC Campaign in Cities – to Trainings, workshops and review meetings– promote safe sanitation septage management

and O&M of FSSM Plants, FSSM Bye-laws etc.

Engagement of SHG women for O&M of 4 plants under AMRUT Mitra program of MoHUA

**Desludging Plan** 

**Decoding Desludging** 

## **IEC Initiatives: Bridging Awareness and Action**

### Infrastructure alone can not solve the problem......Citizen engagement is critical













City-level IEC activities

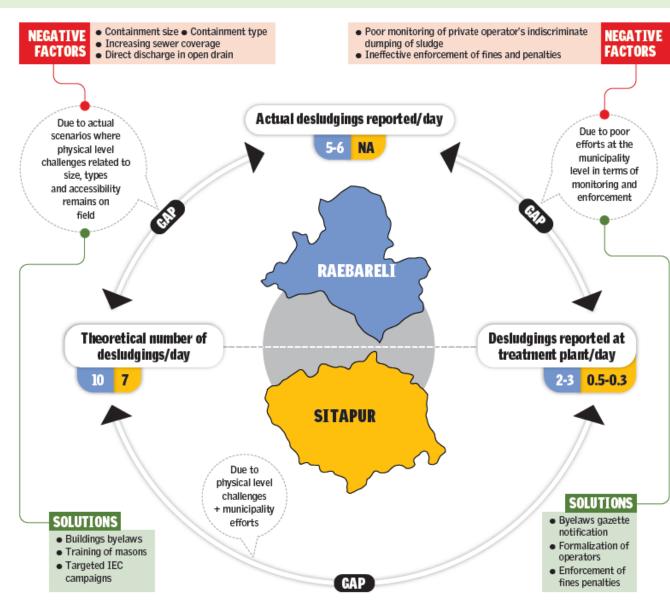
## **Decoding Desludging in Uttar Pradesh**

#### PROBLEM STATEMENT

**Different towns** with **similar population** of UP have **different reported desludgings** and subsequent **decanting** at **treatment plant**, irrespective of **topography** 

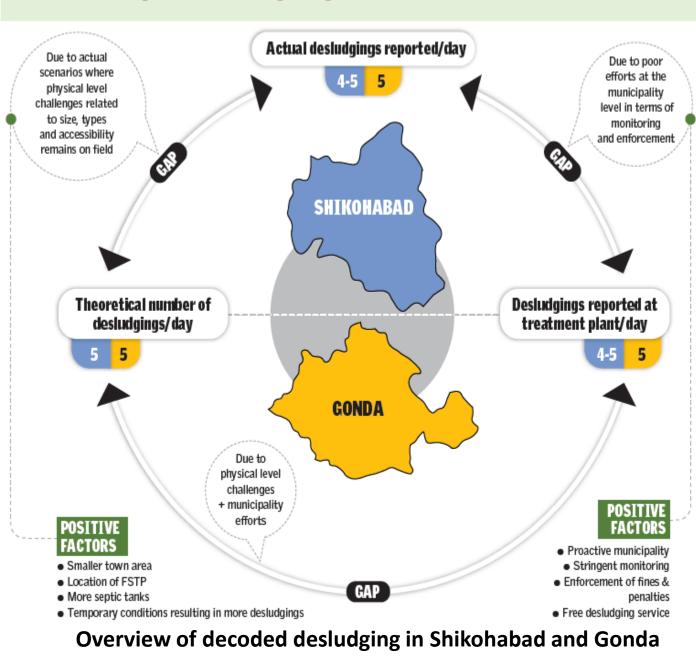
#### **STUDY**

- -Proposed by CSE in 4 towns for understanding factors affecting desludging with focus on nature of containments and related elements
  - Each town with 32 KLD FSTP
  - Low performers- Sitapur and Raebareli
  - High performers- Shikohabad and Gonda
  - Total stakeholders interviewed- 480
     394 Households, 30 Ward Councilors, 25 Sanitation Supervisors, 15 Masons, 9 Government Officials, 7 Vacuum-tanker Operators



Overview of decoded desludging in Raebareli and Sitanur

## **Decoding Desludging in Uttar Pradesh**



#### **RECOMMENDATIONS**

## Better Monitoring Mechanism

Proactive monitoring of private operators to ensure sludge reaches treatment plants

#### **Action points**

- -Implement FSSM byelaws
- -Formalize private operators
- -Levy fines for indiscriminate dumping

## Targeted Capacity Building and IEC

Train operators and raise awareness in high potential wards

#### **Action points**

- -Regular training on safe practices
- -Ward-specific awareness campaigns
- -Focus on septic tank and fully lined tank areas

## Scheduled Institutional Desludging

Mandatory cleaning of government-owned establishments

#### **Action point**

Implement institutional desludging plans

## Future Containments as per IS Code

Ensure new constructions follow standards

#### **Action points**

- -Include in building byelaws
- -Check during map approval

## Gender mainstreaming: Engaging Women SHGs for O&M of FSTPs

- Engaged SHGs in 4 ULBs: Raebareli, Sitapur, Jaunpur and Khurja
- Helped in women's economic empowerment by gaining access to financial resources
- Capacity building helped in skill development and knowledge, increasing their confidence and status in society





#### March 2024

Initiative launched
-Onboarding Of
SHGs in 4 Cities



#### July 2024 SHG Training

SHG Training First Round



### April 2025

Renewal Of AMRUT MITRA Initiative



#### February 2024

Announcement of AMRUT Mitra Initiative



#### June 2024

Conducted
Training Needs
Assessment
Questionnaire
In Four Cities



## February 2025

SHG Refresher Training Round two



#### May 2025

Renewed work orders issued to the SHGs in Four cities.



## **CSE's Key Initiatives Around SHGs Engagement**



Activity during Orientation



Class room orientation



**Exposure Visit to FSTP** 



Do's and Don'ts Panel at FSTP



Tools and equipment Panel



Module specific O and M Panel

## **Performance Monitoring and Evaluation**

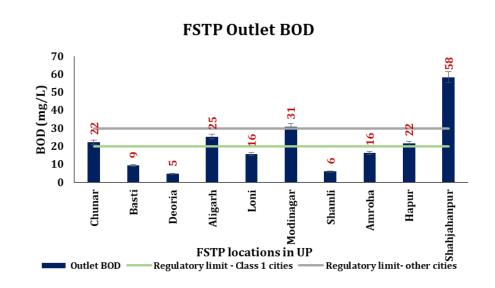
#### **Preventing water contamination:**

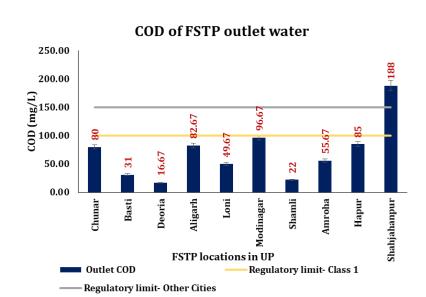
• Currently, around 700+ Kilo Liters per Day (KLD) of sludge is being treated at the plants, which would have otherwise been discharged into water bodies, contaminating water resources



Sample collection

#### **Testing of 26 Plants - Findings Shared with the State and ULBs for Necessary Actions**





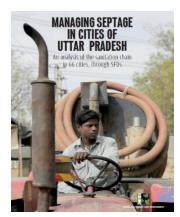
## **Key Learnings**

- Sustainability of FSSM is a governance issue
- Upscaling FSSM requires careful planning- Locating the plant, Right-sizing the plant, Technology selection
- Continuous engagement between with State and ULBs drives the change
- Effective coordination between administrative, political leadership, citizens and relevant stakeholders is crucial

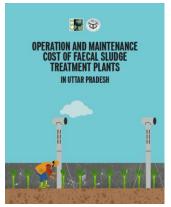
## **Way Forward**

- Maximise utilisation of existing plants
- Ensure quality and efficiency of treatment
- Closing the loop—Reuse treated water and biosolids
- Strengthen institutional ownership and capacity at the ULB level
- Establish digital public infrastructure for service monitoring
- Leverage learnings to scale FSSM across all ULBs under SBM 2.0

## Various Publications Prioritizing O&M and Sustainability of FSSM

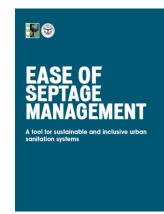


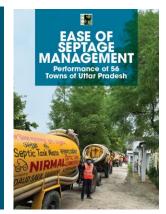


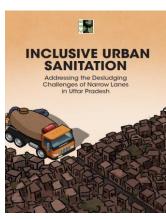




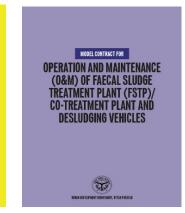


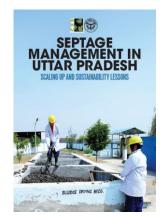




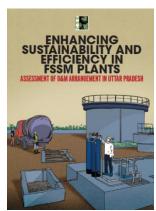




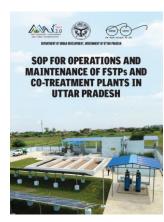




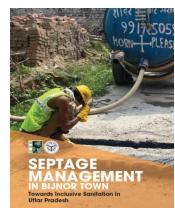










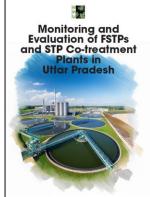
















## **Thank You!**

