

# **Data Systems for Inclusive Sanitation services**

**Workshop: Data systems strengthening for inclusive sanitation services** 

**12 December, 2023** 











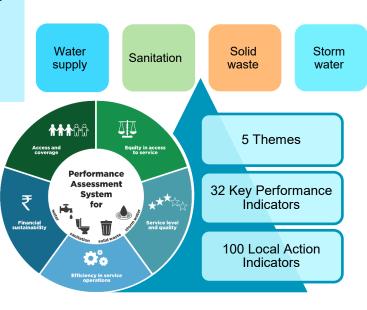




## PAS is in alignment of national agreed Service Level Benchmark (SLB) framework for tracking urban water and sanitation service delivery ...

You cannot improve what you cannot measure!

#### **PAS-SLB+ framework**



#### **NATIONALLY OWNED**

National Technical Partner for SLB Roll out with State Governments

#### TECHNICALLY SOUND E-PLATFORM

- Online module
- Inbuilt validation checks
- Automatic system for calculating indicators
- Comparative dashboards

### FRAMEWORK SUITED TO OUR CONTEXT

Focus on efficiency and service quality like international frameworks but also added the lens of equity, slums and later OSS

#### PAS SLB+ additional outcome indicators

### FSSM outcomes - SanBenchmarks



### **Equity in service** delivery



Toilet coverage in slums?

ODF in slum households?

Network services in slums?

Connection charges for slum households?

# Financial sustainability of services





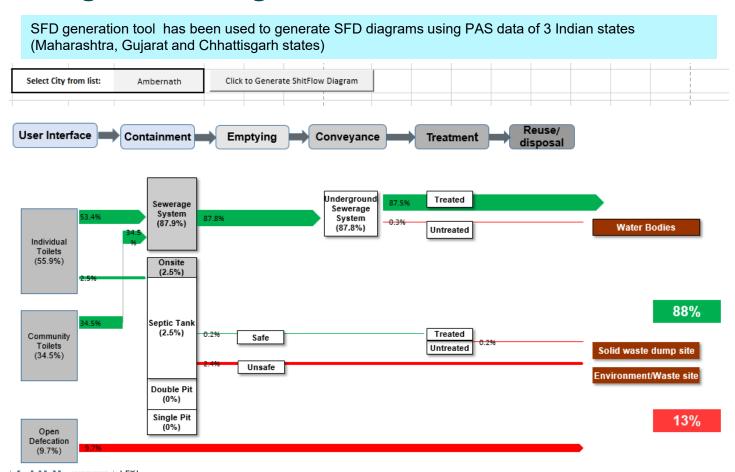
Structure of charges levied – flat / volumetric / proportionate

Cost recovery in provision of services?

Collection efficiency for user charges?

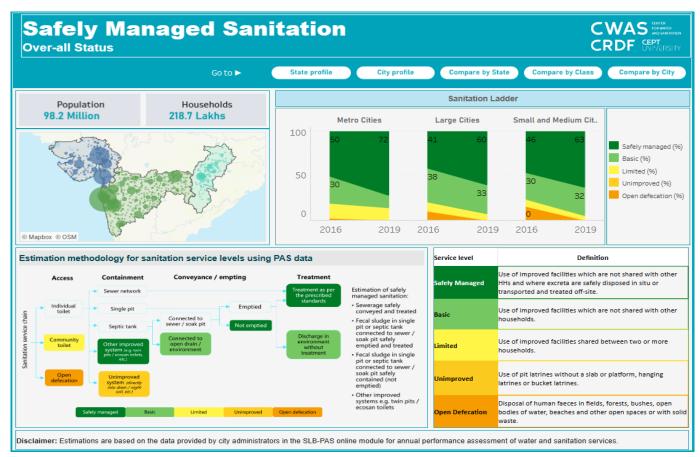
Breakup of expenditures – admin, contractual, electricity and fuel, repairs etc

#### Shit Flow Diagram can be generated from PAS





#### Localising SDG - Using PAS for monitoring SDG 6.2 at local level

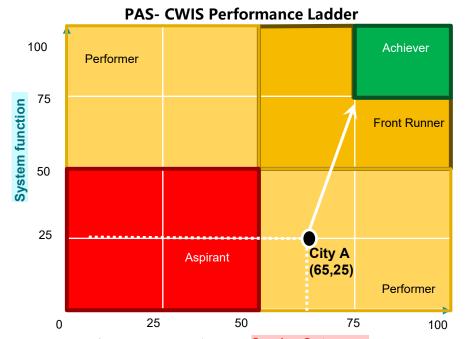






#### **CWIS Performance Ladder using PAS information**

- It is important to plot cities 'performance on system function and service outcome in order to identify where they are placed in comparison to other cities. Such plotting would also help the city government identify areas of improvement.
- The PAS-CWIS performance ladder is designed achieve such performance assessment. For the PAS-CWIS ladder, a composite score based on cumulation of all indicators is arrived at which is plotted on the graph.



Performance		<b>System Function</b>	Service Outcome
Q1	Achiever	>75%	>75%
Q2	Front Runner	< or =75% and >50%	<or =75%="" and="">50%</or>
Q3	Performer	<or 50%<="" =="" th=""><th>&lt;0r = 50%</th></or>	<0r = 50%
Q4	Aspirant	<50%	<50%

City A has better performance in Service outcome than in System function

To become high performer city, City A need to improve Service outcome by 10% and System function by 50%



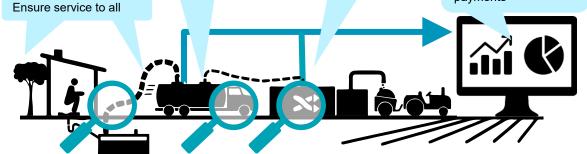




## Other digital systems feed into PAS... SaniTrack - monitoring for scheduled desludging

Ensure desludging at regular intervals

Safe collection of sludge by following necessary protocol Safe conveyance to designated treatment site Indicators for making decisions on "performance linked payments"



- ✓ Digital and realtime no need to process paper forms for results
- √ Visualize geographically
- Click/select and validation checks reduce human error
- ✓ Signatures, location and photos customer feedback



#### Modules





Assign daily schedule

Mobile/web:

Scheduling



#### State admin

Onboard cities See state level results



#### Mobile: Desludging

Collect signatures and info on successful desludging and conveyance to FSTP



#### City admin

Set city parameters and users

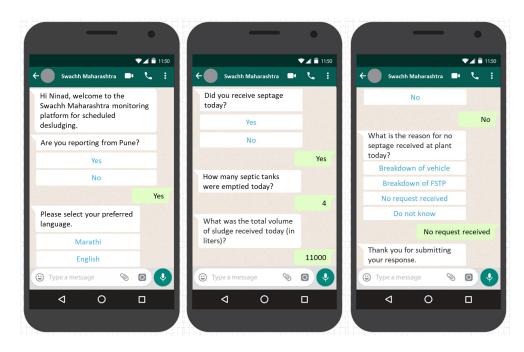
Dashboards and reports



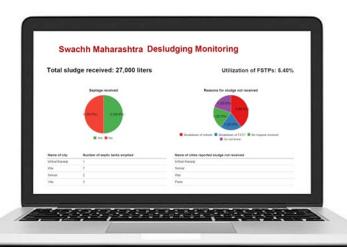




## Other digital systems feed into PAS... Exploring chatbots for demand desludging



- Daily report from FSTP operator
- FSTP operator initiated or system initiated conversations
- Was sludge received? Volume? Issues?
- State level dashboard









# Way Forward – integrate Chat GPT in PAS for flexible analysis!!



Chat GPT is being integrated in Excel. This provides excellent opportunities to make PAS more user friendly and generate big data analysis as required

## Thank you

CWAS CENTER FOR WATER AND SANITATION



CEPT UNIYERSITY

