Presentation from the 2011 World Water Week in Stockholm



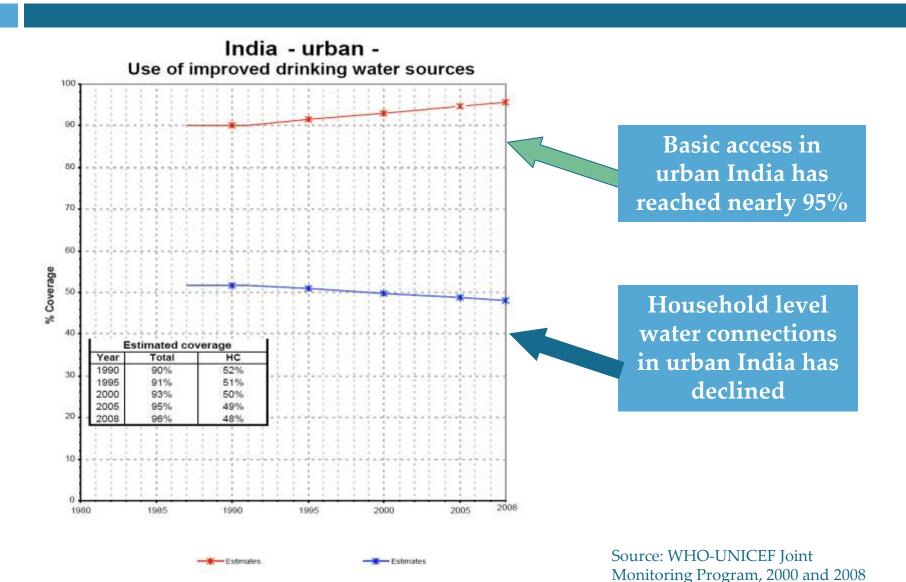




Measuring and Improving UWSS for the Poor PAS Project, India



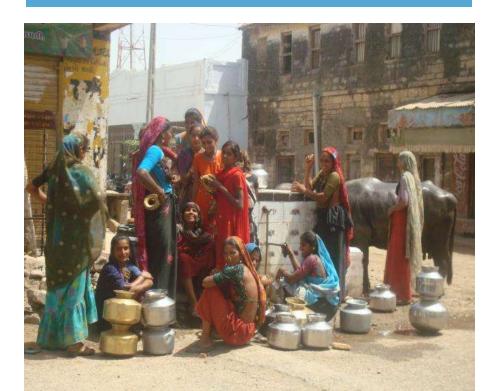
India Water Supply – increased investments, improved basic access, and decline in household level services



Need for Performance Information in urban water and sanitation

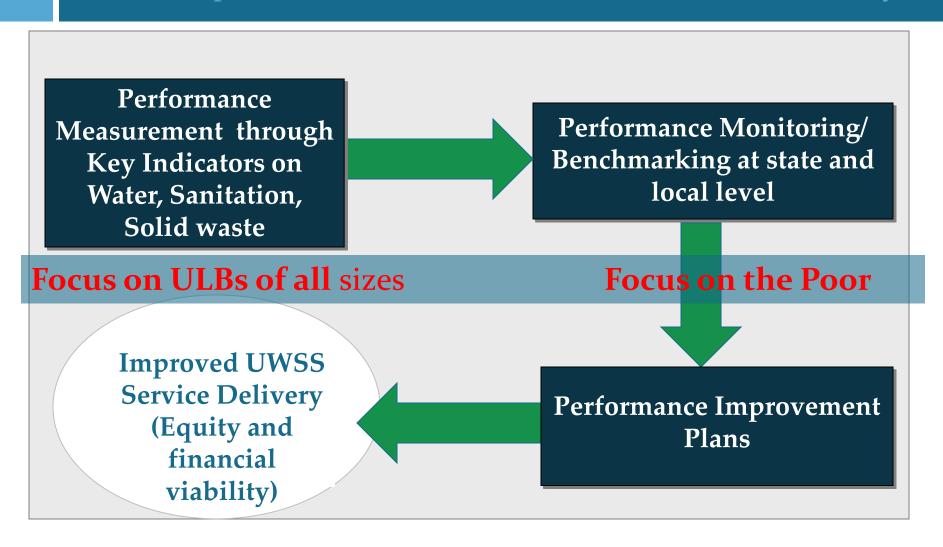
- Aggregate statistics suggest good coverage of water and sanitation in urban areas in India
- BUT little is known about the quality, level and financial sustainability of service
- Only limited information on access of urban poor households to water and sanitation is available
- Lack of WSS information leads to misallocation of resources
- Difficult to assess impact of past investments

Resources for WSS is not a major constraint
– around USD 10 billion invested in urban
WSS over 7 years –Gujarat has allocated
over One Billion USD for Sanitation

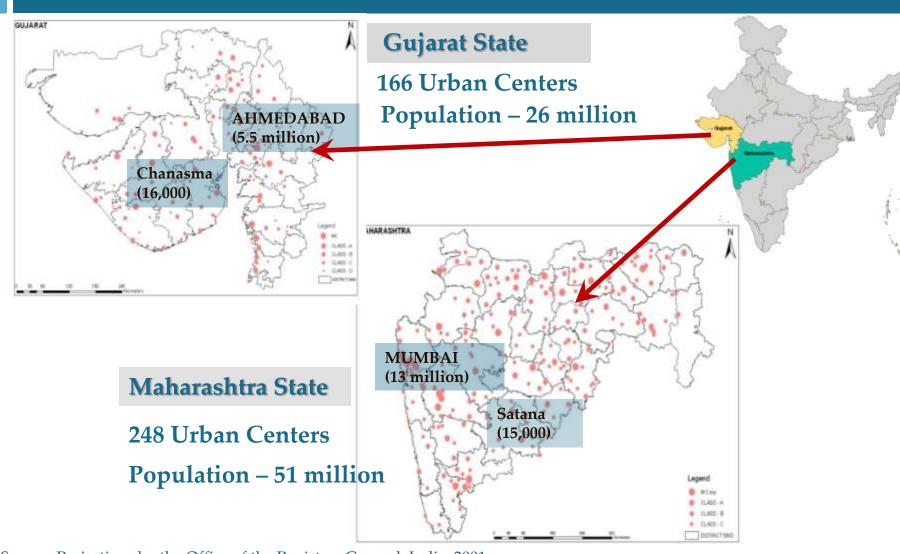


WHAT IS PAS?

A sustainable statewide performance assessment system for improving access to the poor and un-served, and achieve financial sustainability



States and Urban Coverage - PAS Project



Source: Projections by the Office of the Registrar General, India, 2001

Population, Poverty and Slums

| | Gujarat | Maharashtra |
|---|---------|-------------|
| Total Urban Population (million) in 2011 | 25.7 | 50.8 |
| % urban (2011) | 42.5 | 45.2 |
| Rate of growth of urban population % (2001-2011) | 35.8% | 23.8% |
| % of urban population below poverty line (2000) | 15.6% | 25.8% |
| Total Slum Population (million) in 2001 | 3.4 | 10.7 |
| % of urban population in 'slum settlements' (2001) | 18.1% | 26.0% |

Source: Population: Census of India 2001, 2011; Poverty: Planning Commission, GOI, 2007; Slums: NBO 2010.

8 Performance Measurement

Adding Equity Indicators in Benchmarking

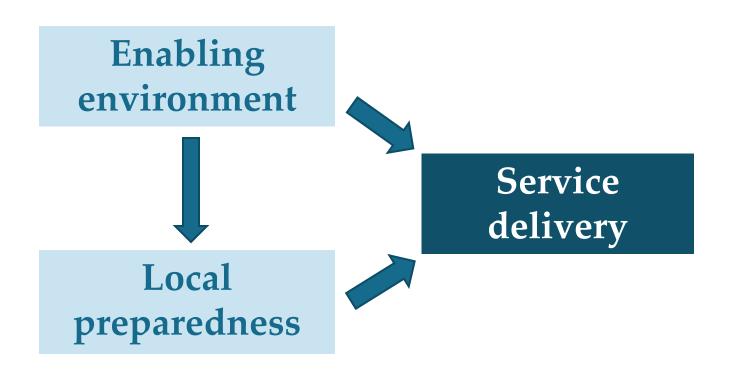
| _ | | |
|---|--------------------------------|--|
| Water: Typical Key Performance Indicators | | |
| | | |
| Access and Coverage | | |
| Coverage of individual water supply connections (%) | | |
| Service level and Quality | | |
| Per capita supply of water (lpcd) | | |
| Continuity of water supply (hrs per day) | E-vitaria di antono ano antico | |
| Quality of water supplied (%) | Equity indicators are not incl | |
| Financial Sustainability | | |
| Cost recovery (O&M) in water supply service | Sanitation – non-sewered c | |
| Efficiency in Service Operations | | |
| Extent of NRW (%) | which are a majority in devel | |
| Efficiency in redressal of customer complaint | countries are excluded | |

Equity in Service Delivery

Functional metering of water connections (%)

?????

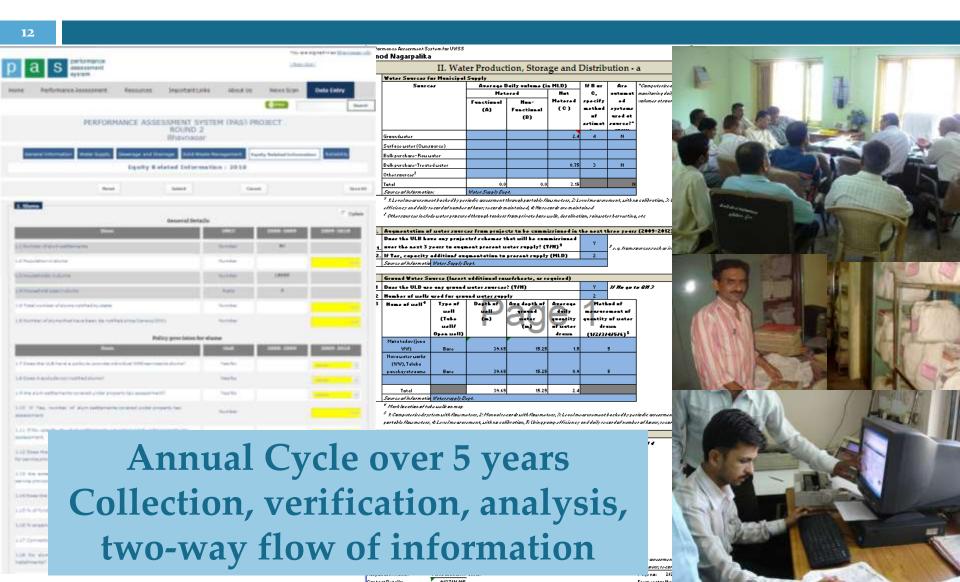
Framework for Equity Assessment



Framework for Equity Assessment

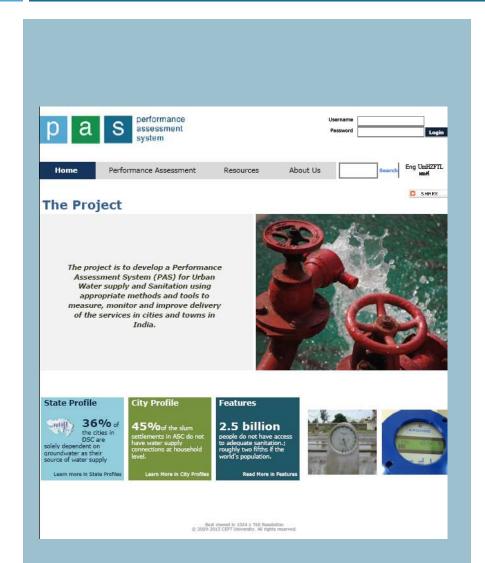
| Theme | Key Parameters | | |
|--------------|---|--|--|
| Enabling | Presence of a positive policy to provide services to the poor | | |
| Environment | Affordable Tariffs for access to services, options to pay in installments | | |
| | Efforts to include 'non-notified' slums | | |
| | Inclusion of slums houses under property tax | | |
| | Special national/ state schemes for services in slums | | |
| Local | Extent of funding (%) in local budgets for the poor and in slum areas | | |
| Preparedness | Efforts made to improve/ simplify connections in slum settlements | | |
| _ | Presence of internal network (water supply, drainage) in slum | | |
| | settlements to facilitate ease and affordability in access | | |
| Service | Access to basic services for water and sanitation in slum areas (JMP | | |
| Delivery | definition), extent of open defecation | | |
| | Access to on-premise facilities for water (municipal connection) and | | |
| | sanitation (toilet, sewerage connection, door-to-door SWM) | | |
| | Quality of service delivery (quantity of water, pressure, timing, etc.) | | |
| | Complaint redressal for the poor | | |

Data Collection Tools – excel/ online



Performance Monitoring

Performance Monitoring



Gujarat and Maharashtra state wide PAS web portal for performance monitoring

- ■Web portal set up
- □Differential access by user category
- □Includes:
 - **✓** Tools for measurement
 - ✓ Monitoring results at state and local level
 - **✓** Tools for improvement
 - ✓ Good practices for improvement

pas.org.in

From Data to Monitoring

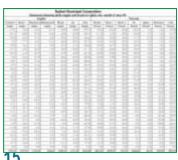
RAW Data with ULB

Performance Questionnaire **City UWSS Profile**

State UWSS Profile

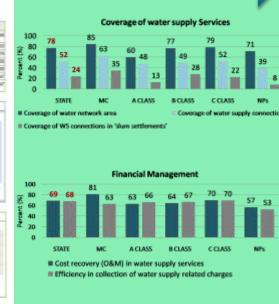


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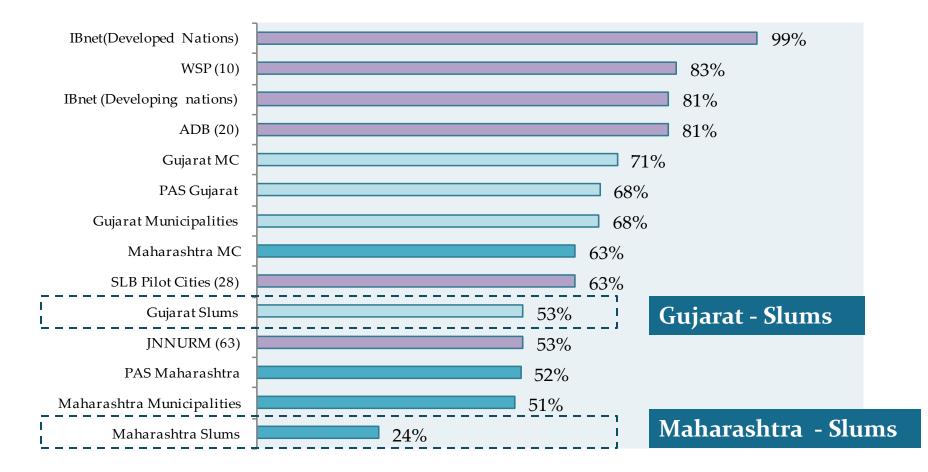




Stepping Stone to PERFORMANCE IMPROVEMENT PLANNING

Comparisons – 2008-09

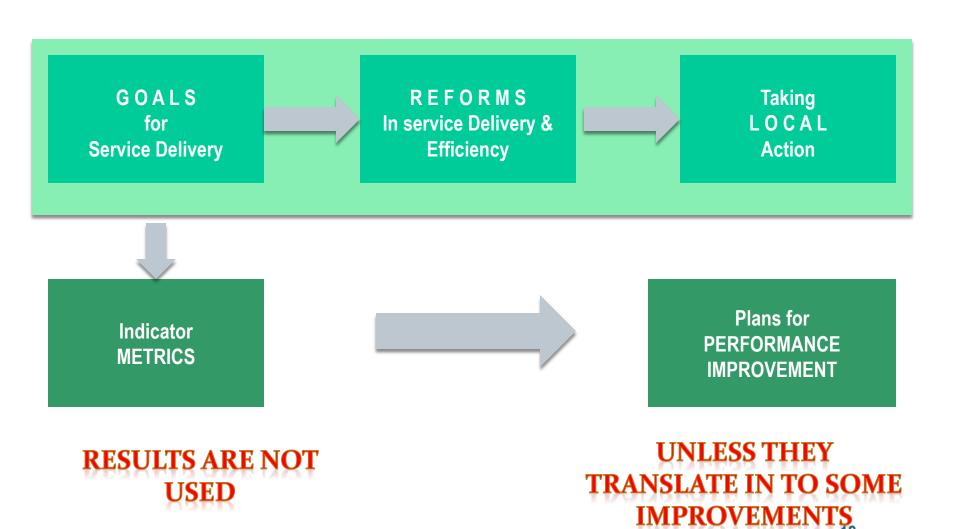
Comparison of household level water services –



Performance Improvement

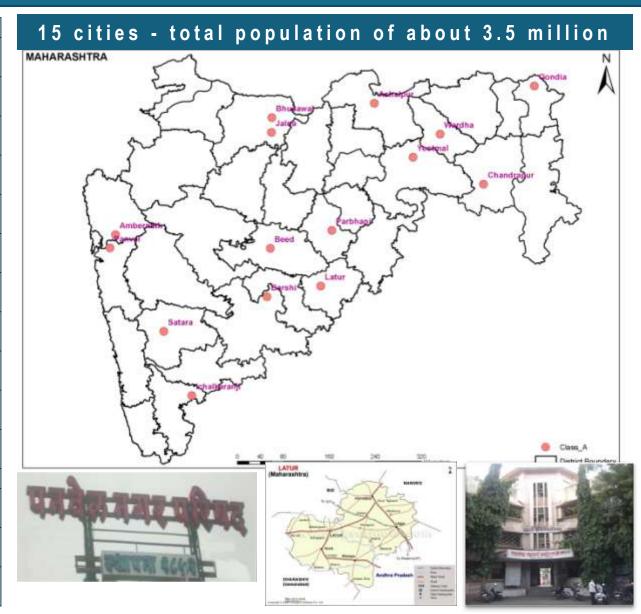
Benchmarking for What?

Transition to Performance Improvements



Municipal Councils in Maharashtra

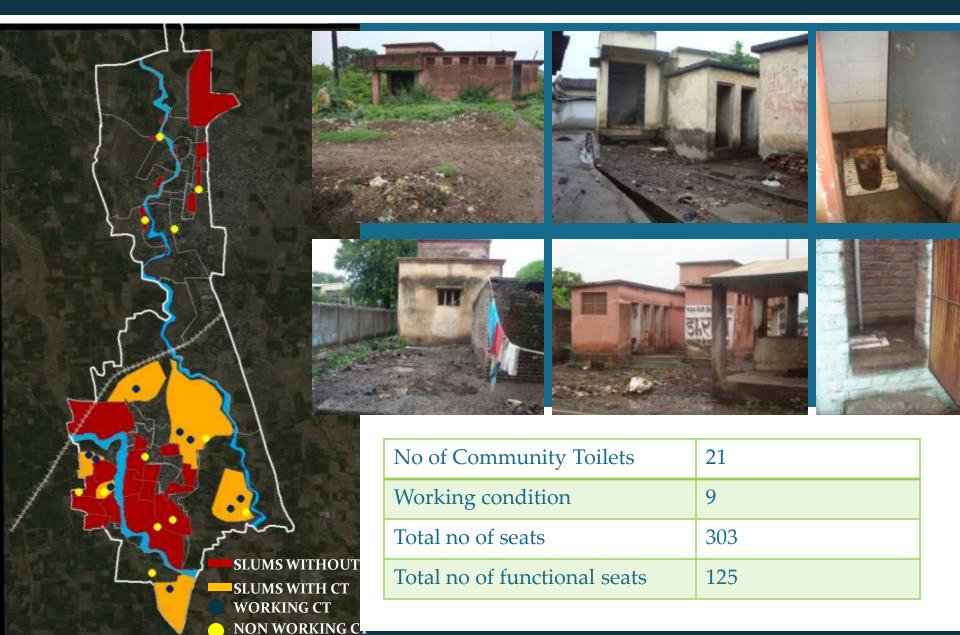
| | City | Population (2011) |
|----|--------------------|-------------------|
| | A la a a la | 2 67 924 |
| | Ambernath | 2,67,834 |
| | Beed | 1,86,444 |
| | Barshi | 1,18,475 |
| | Chandrapur | 3,56,000 |
| | Latur | 4,90,261 |
| | Panvel Parbhani | 1,80,000 |
| | | 3,07,000 |
| | Jalna | 2,85,349 |
| | Wardha | 1,06,439 |
| | Achalpur | 1,12,293 |
| | Satara | 1,20,079 |
| | Ichalkarnaji | 3,30,474 |
| | Gondia | 1,32,889 |
| _ | Bhusawal | 1,87,750 |
| 19 | Yavatmal | 1,16,714 |



Consultations and Diagnostic Studies



Detailed Studies in Slum Settlements



PIP Toolkit for Decision Making

- ✓enables the utility to benchmark itself with its peer group and universal norms
- ✓ comprehensive list of actions and improvement measures
- ✓ distinction between 'low-cost no-cost' and capital intensive interventions
- ✓ impact of actions on service delivery, revenues, costs, and financing
- ✓ enables an assessment of financial sustainability

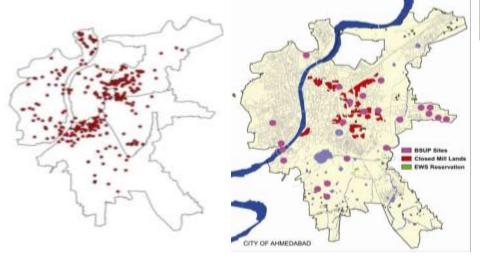


GIS based Slum Information System Tools for Decision Making

> Helps in policy decisions and effective planning; ranging from a single slum settlement to the entire city.

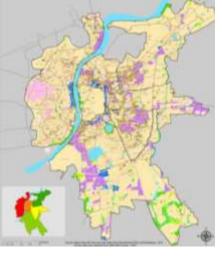
Identification of slums that need to be relocated

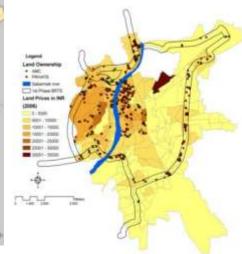
Land bank Identification



Location of slums w.r.t. land use of city







- > Identify the slums under different various slum redevelopment model
- > Decision making in Infrastructure Planning and implementation
- > Allows the inter-departmental linkages and regular updating of slum database

National /Global Links

- Including equity /dev country context in Benchmarking
 - Working with IWA to set up a special group for developing country PIs
 - Sharing approach /methods for equity with JMP Urban Task Force
 - > Partnership with UNESCO-IHE PROBE Project
- Contribution to and alignment with the Government of India's Service level Benchmarking (SLB) Initiative

Summing Up

- Benchmarking at scale and coverage all cities
 (400+) ranging from very small (25,000) to very large (15 million+)
- Benchmarking not as a one-off report but as a mainstreamed continuous annual cycle
- Explicit inclusion of equity, sanitation (rather than only sewerage)
- Linking measurement to improvement with simple support tools and consultative processes
- Ensuring local ownership



Thank You

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