

A Planning Framework for Improving City-wide Sanitation Services

September 2013

final draft





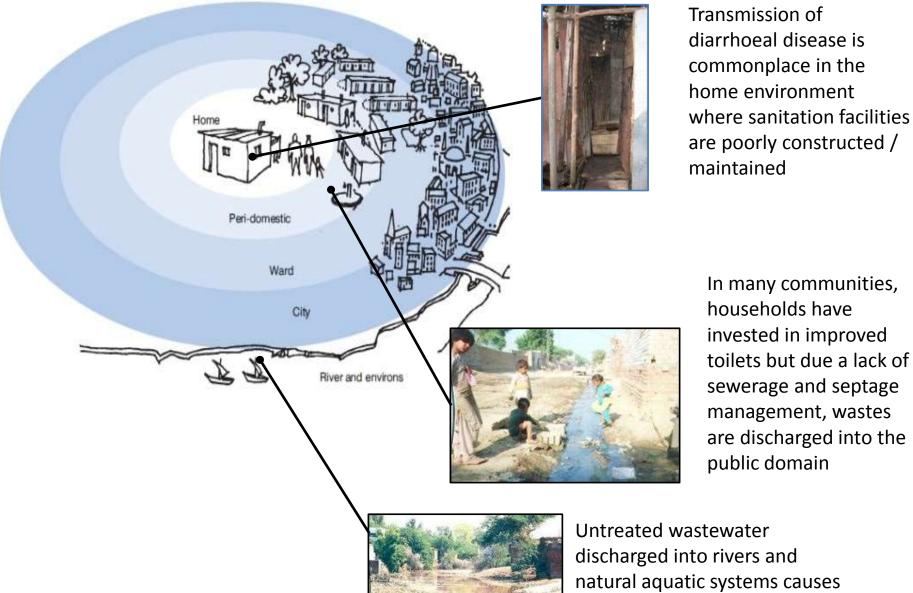


Sanitation 21

A Planning
Framework for Improving City-wide Sanitation
Services

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Initiative

inspiring change







widespread pollution and environmental health risks

Why a need for Sanitation21?

Conventional master planning approach

- overlooks existing investments
- Too great an emphasis on infrastructure and insufficient attention on improving services
- insufficient attention to service delivery requirements for lowincome and informal settlements
- insufficient attention of the role of small-scale service providers

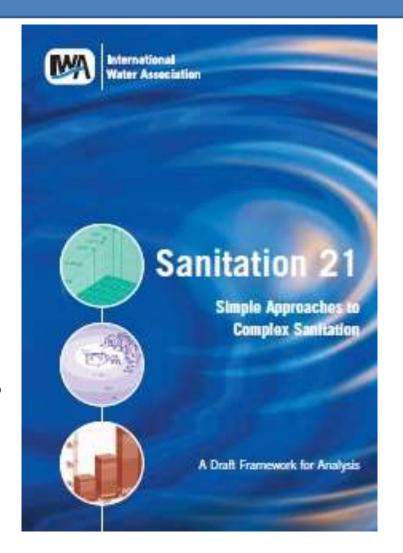






Sanitation21 - what's new?

- Builds on more recent experiences in sanitation planning
- More guidance on process
- More information about specific actions/activities that can be undertaken to support the planning process



Principles of sanitation service delivery: Focus on sanitation as a service

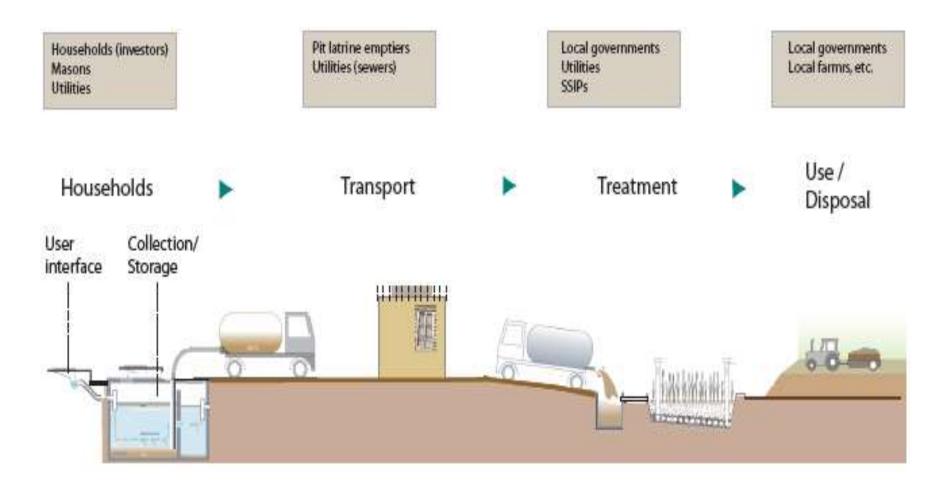
- Ensure services are affordable and financially viable
- Plan for inclusive and equitable sanitation services
- Engage with stakeholders







Principles of sanitation service delivery: Improve sanitation service delivery chains

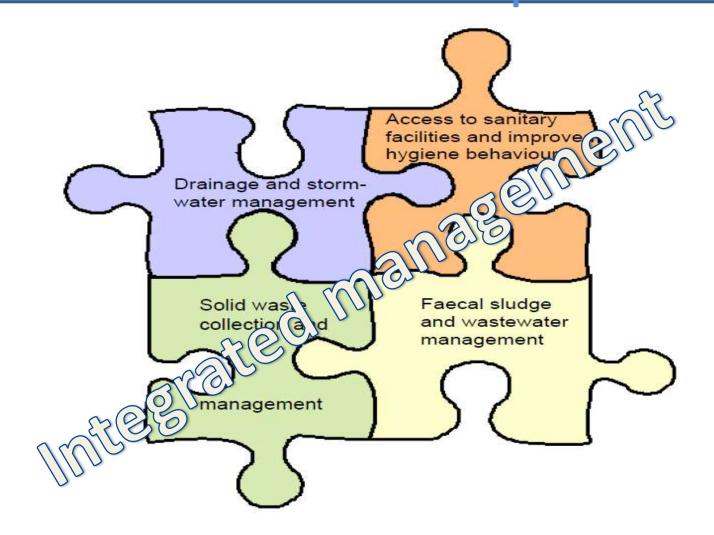








Principles of sanitation service delivery:









Planning in context: relationship between city sanitation with city development and implementation plans









Planning in context: Planning as part of the service delivery cycle

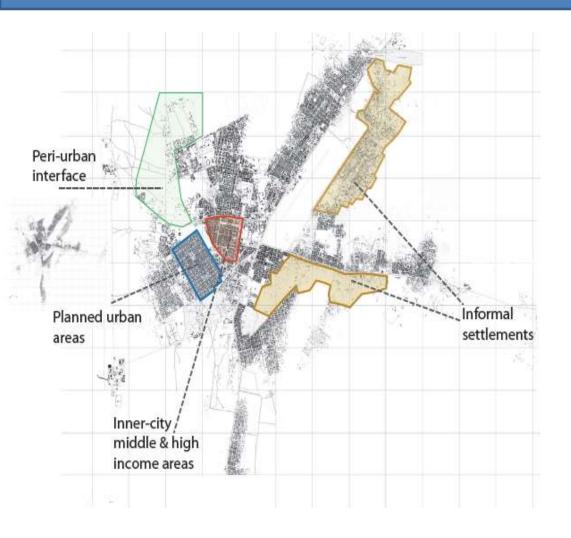


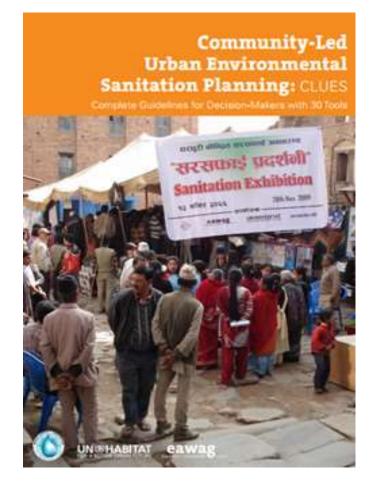






Planning in context: Linking city-level planning with local initiatives











sanitation 21 planning process

Stage 1: Define institutional framework for service delivery



Stage 3: Derive strategies for sanitation system improvement

Stage 4: Formulate appropriate management arrangements



Stage 5: Prepare for implementation







- 1. Identify stakeholders; assess key priorities and incentive
- 2. Definite collective vision of and priorities for improved sanitation
- 3. Establish city sanitation task force, agree upon the process driver and the planning process





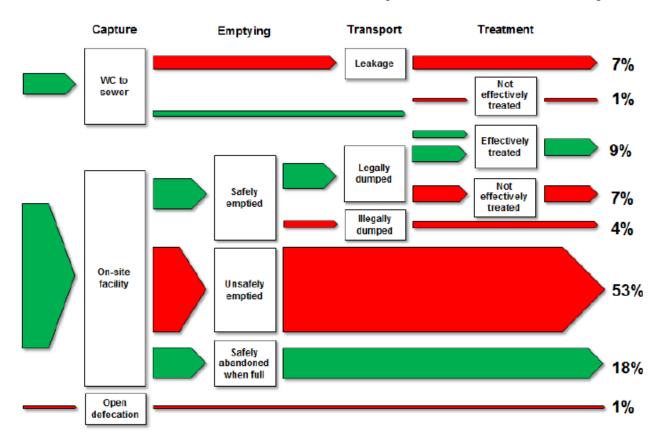




Stage 2: Understand the existing context

Excreta flow in Maputo, Mozambique

- 1. Collate and review existing information
- 2. Assess the capacity of existing systems and identify areas of high risk
- 3. Identify constraints to service provision







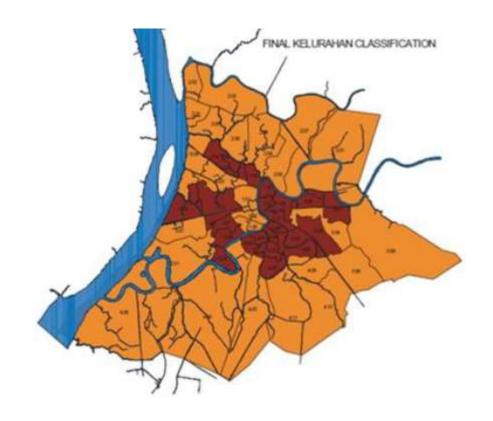


Source: WSP, 2013

Stage 2: Understand the existing context

- 1. Collate and review existing information
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Mapped sanitation risk areas in Indonesia





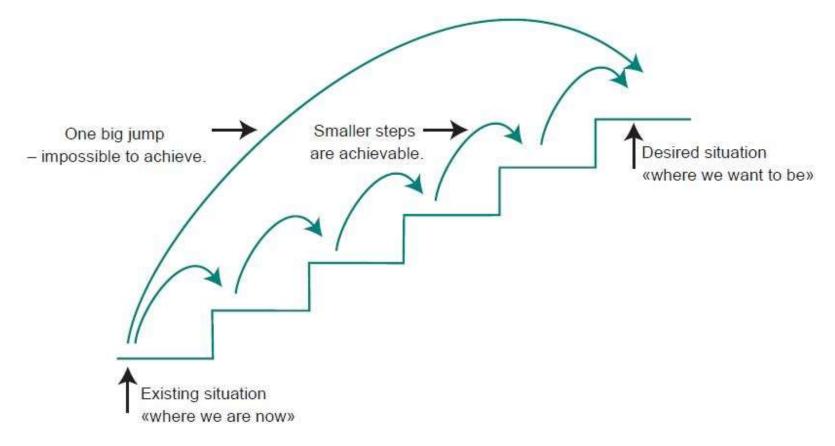




Source: WSP, 2010

Stage 3: Derive strategies for sanitation system improvement

incremental approach towards service delivery improvements



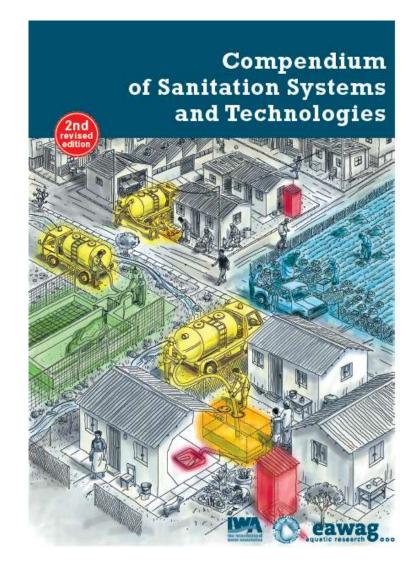






Stage 3: Derive strategies for sanitation system improvement

Consider a range of technological sanitation options



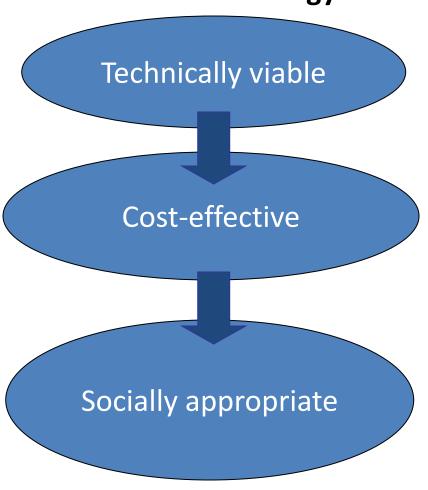






Stage 3: Derive strategies for sanitation system improvement

Process of technology selection



Consideration of physical parameters

Consideration of investment and operational costs

Consideration of factors relating to affordability and acceptability







Stage 3: Derive strategies for sanitation system improvement

Assess costs of different types of intervention

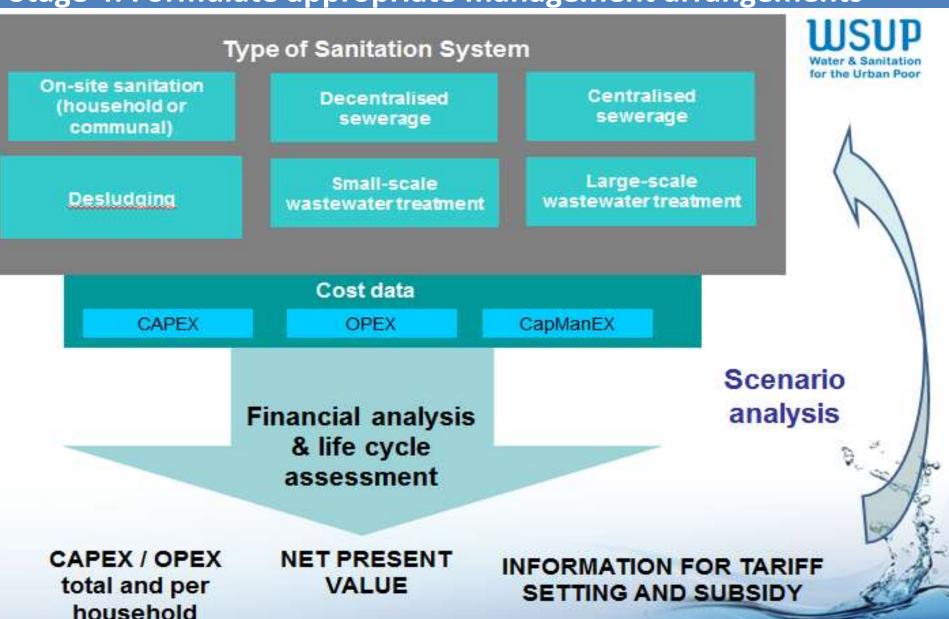
	Household or institutional cost?	Capital costs	Operational and maintenance
Latrine	Latrine costs are household costs unless subsidized	Construction of latrines (including equipment costs)	Desludging costs (including cleaning materials) and cost of water for flushing (if used)
Off-site waste management facilities	Capital investment costs are institutional costs but tariffs for O+M are household costs	Construction of sewerage and treatment facilities, desludging trucks and other equipment	Operational costs of sewerage and treatment facilities, desludging trucks and other equipment
Management	Institutional costs	Project management, supervision and salaries of engineers	Labour and materials for operation, maintenance costs for desludging
Promotion and capacity building	Institutional costs	Sanitation promotion and training	Ongoing promotion







Stage 4: Formulate appropriate management arrangements



the planning process **Stage 4: Formulate appropriate management arrangements**

Assess management options

Level of infrastructure/service	Tasks	Management option
Household level	Cleaning of pits and septic tanks, and unblocking of household connections	Small-scale service providers (operated either by a small-scale private operator or an NGO
Lane and neighbourhood level services	Communal septic tanks, toilet blocks, lane sewers.	Small or medium scale enterprise, non-profit company, or non- governmental organization
City level - Primary infrastructure and services	Operation of trunk sewerage Sewage / faecal sludge treatment plants, pumping stations	Utility (public or private), concession to private company







Stage 5: Prepare for implementation

- Definition of short, medium and long term priorities for implementation
- Consider funding mechanisms
- Preparation and dissemination of the draft city sanitation action plan
- Formalise institutional agreements for implementation and agree on monitoring plan

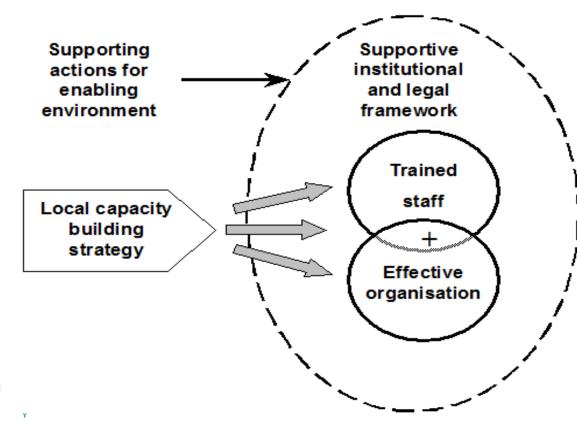






Supporting the planning process

- Creation of an enabling environment
- Human resources development and institutional strengthening
- Sanitation promotion and awareness-raising
- Disseminating and communicating the plan
- Consultation and facilitation of the process









Send us your comments

Soon to be available for download from IWA website, Waterwiki and SuSanA

Please send your comments and suggestions to either

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or Christoph Luethi (email: Christoph.Luethi@eawag.ch)

before November 30 2013







