

Tools for the assessment and development of sustainable city-wide FSM services

Diagnostics to inform non-technical aspects

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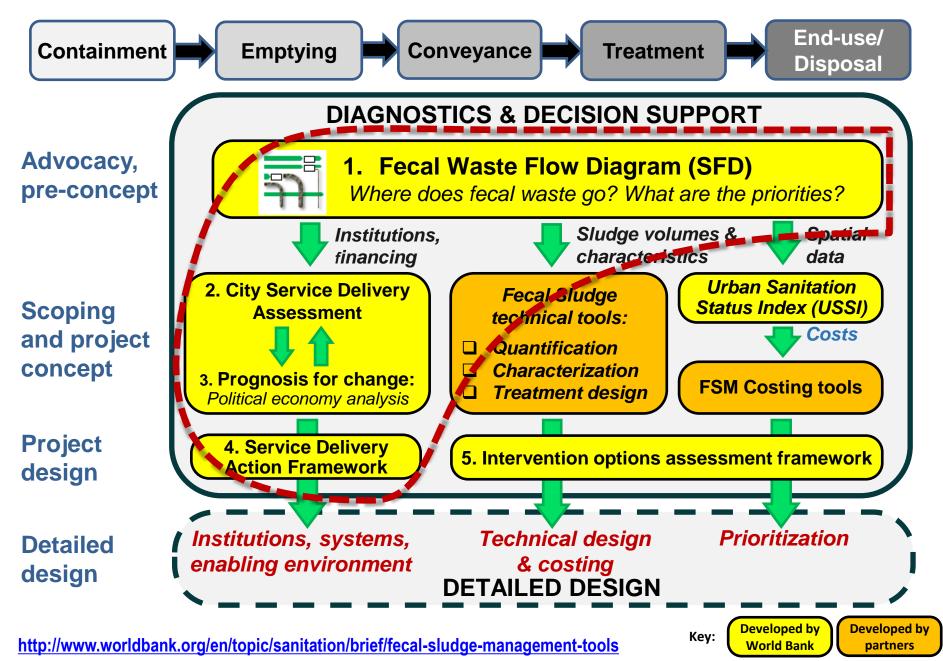






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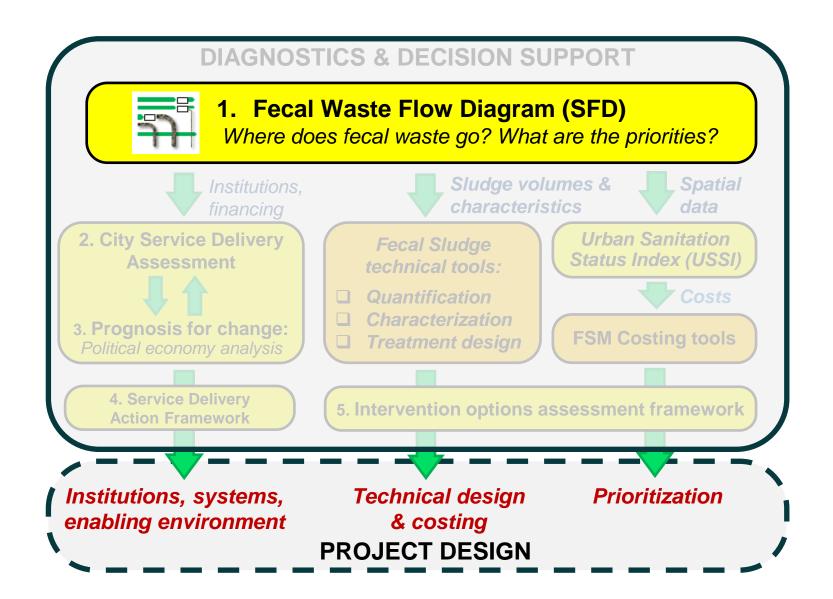
Diagnostic Tools for the Urban Sanitation Chain



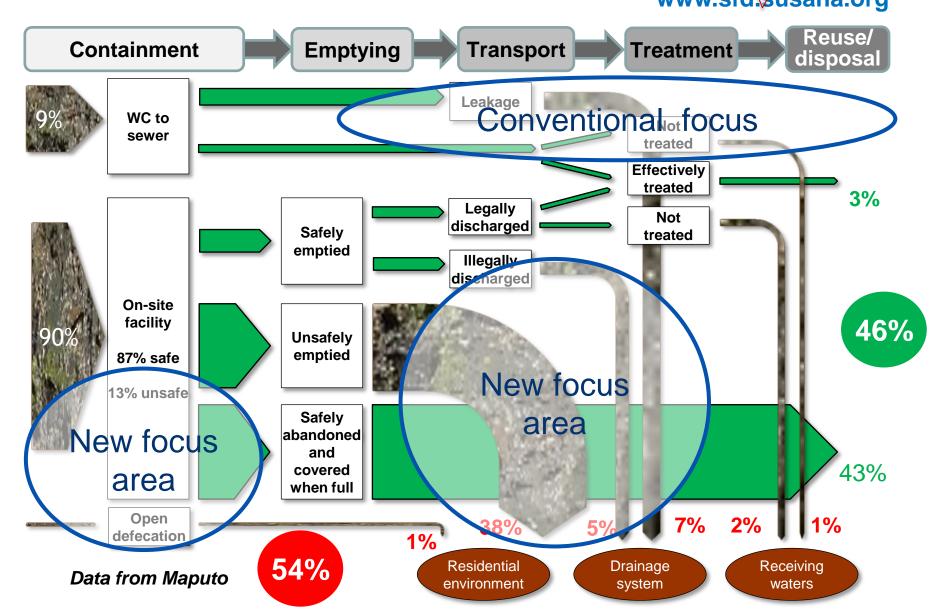
Initial Development and Application of Tools



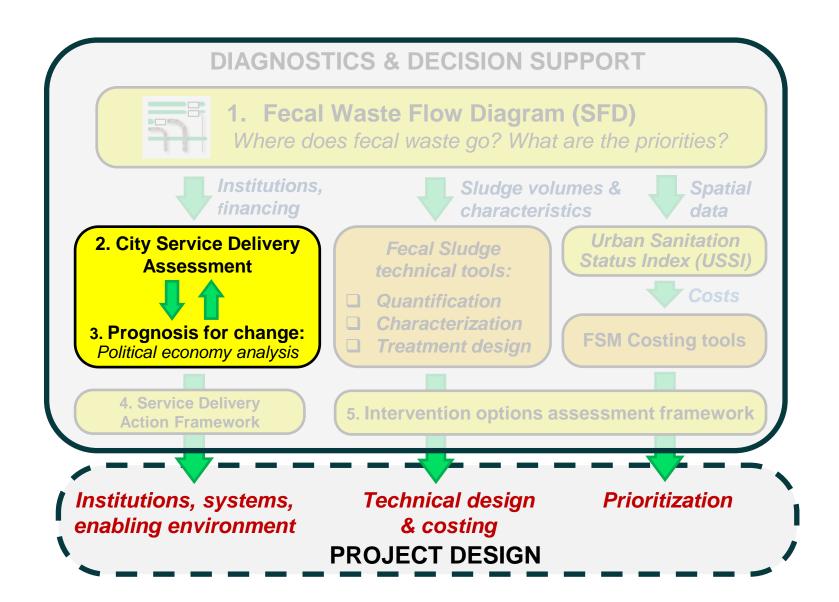
Fecal Waste Flow Diagram (SFD)



Where Does the Fecal Waste Go? New auto SFD Getting priorities straight www.sfd.susana.org



City Service Delivery Assessment (CSDA)



Institutional Assessment & Action Framework

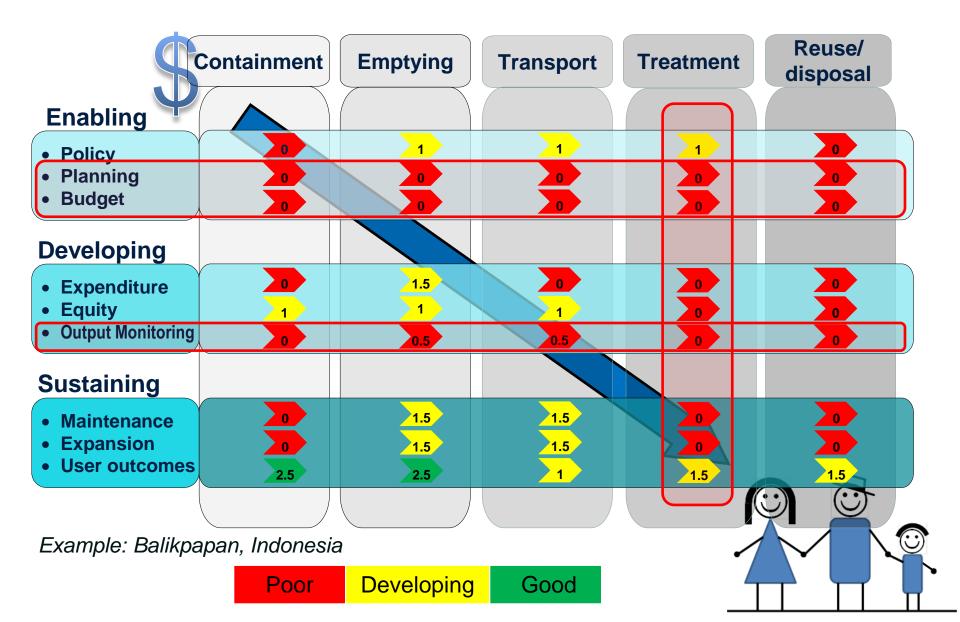
- Stakeholder mapping
- City service delivery assessment
 - Data / evidence gathering
 - Stakeholder discussions
 - Scorecard
- Prioritization
- Prognosis for change assessment
 - With stakeholder analysis
- Service Delivery Action Framework

Working with stakeholders to improve the situation



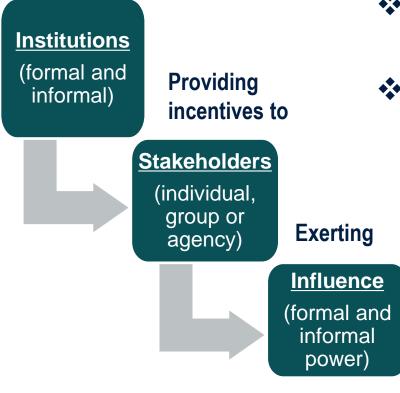
Sanitation working group planning a response to the SFD in Balikpapan, Indonesia, Aug 2014

How do Resources Translate into Services? Identifying the effects of the institutional environment



Why is it like this?

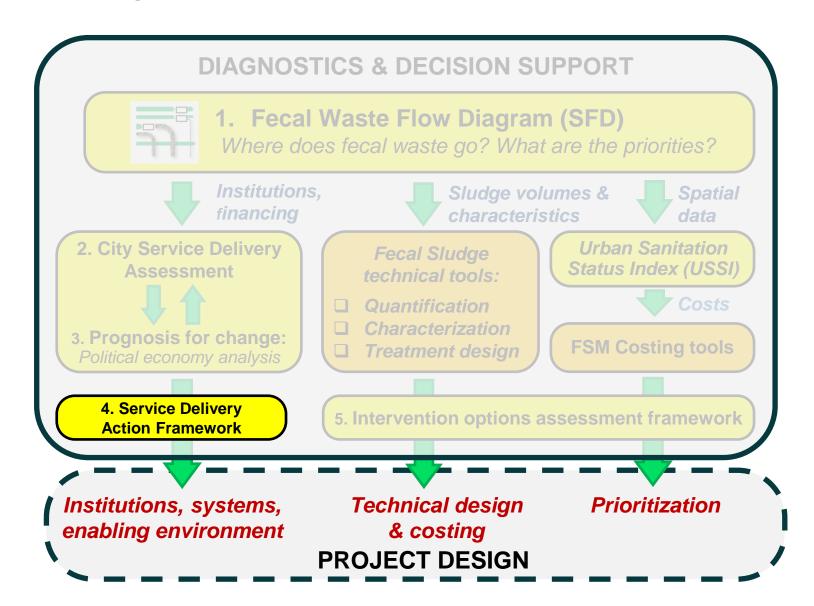
What facilitates or impedes change?



- Who decides? Who benefits? Can things change?
- Are there commonalities between interests? Can groups be mobilized around them?
 - Essential with many stakeholders
 - Considers formal/official and informal processes and institutions
 - Links to Service Delivery Action Framework
- Structured stakeholder analysis
- Systematic application of tacit (often unspoken) local knowledge
- Identify win-win scenarios
- Advocacy with key stakeholders

Service Delivery Action Framework

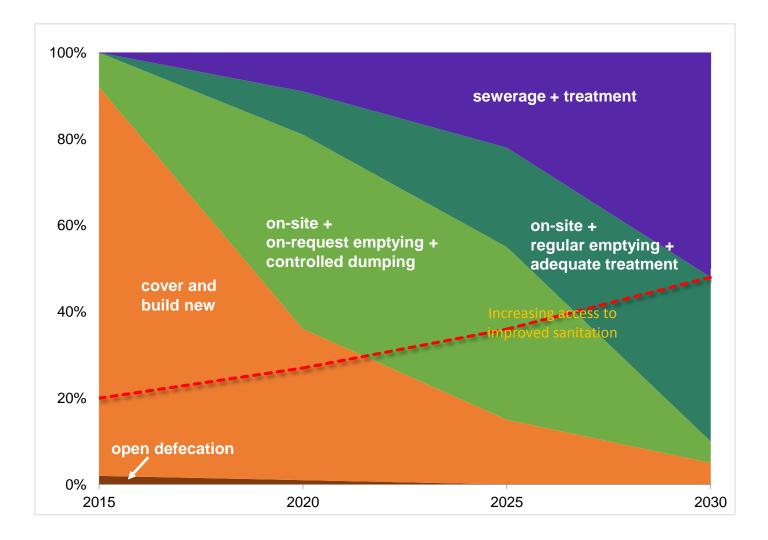
Ensuring hardware delivers sustainable services



Service Delivery Action Framework Planning non-technical components – e.g. Dhaka

		Basic Critical interventions for public health	Intermediate Strengthen what exists	Consolidating <i>Full chain</i> <i>sustainable services</i>
National	Policy, legislation and regulation	 Review national sanitation policy and ensure FSM is included Review regulatory framework around the protection of public health & environment 	 Set norms / standards for public health and environmental protection Establish legal basis for regulation of FSM services 	 Require local regulation and its enforcement Develop a policy/regulatory framework to incentivize treatment and re-use options
	Institutional arrangements	 Review institutional arrangements for sanitation – ensure FSM is included Identify an institutional framework for FSM with clear roles and coordination 	 Establish institutional framework for FSM with defined roles and coordination mechanisms Establish institutional roles for fecal sludge treatment and re-use options 	 Strengthen institutional framework to enhance service outcomes, with fully implemented roles and coordination Consider (dis)incentives for improved FSM
	Planning, M & E	• Build awareness of FSM in national	 Establish monitoring framework for service standards 	• Strengthen monitoring of all services
Local	Legislation and enforcement	• Review/establish byelaws, ensuring they address on-site systems and FSM services	 Strengthen byelaws and their enforcement Introduce regulation of service providers Incentivize disposal at recognized sites 	 Regulate pollution of receiving waters Penalties for indiscriminate FS dumping Enforce use of emptiable facilities
	Institutional arrangements	 Review institutional arrangements for sanitation – ensure FSM is included Identify local institutional framework for FSM 	 Establish local institutional framework for services – with roles defined and agreed Establish roles for FS treatment Consider (dis)incentives for improved FSM 	 Strengthen institutional roles for managing improved FS management, including treatment facilities and re-use options Implement (dis)incentives for improved FSM
	Planning, monitoring and evaluation	 Conduct area-based, gender and pro-poor focused diagnostic studies Develop plans, finance & institutional needs Plan and design FS treatment options 	 Establish revenue streams Refine and implement local service plans Establish monitoring and evaluation (M&E) of service standards 	 Introduce plans to enhance treatment capacity and re-use arrangements Strengthen M&E of treatment and re-use arrangements against service standards
	Promotion	• Stimulate customer demand/ WTP for FSM	Disseminate public FSM services information	• Stimulate market demand for re-use of FS
	Capacity and TA	 Identify capacity gaps and required TA Promote appropriate private sector services Implement measures for safer disposal of FS currently dumped in the environment 	 Promote/support development of improved, emptiable containment facilities Strengthen role of service providers Pilot scheduled desludging/ transfer stations 	 Consolidate/expand services based on outcome of pilot studies Build/rehabilitate FS processing plants and develop business models for re-use of FS

Sanitation mix: over time *Recognizing FSM as part of integrated services*





Tools available from: http://www.worldbank.org/en /topic/sanitation/brief/fecalsludge-management-tools





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wsp.org | worldbank.org/water | wedc.Lboro.ac.uk | opml.co.uk