What is an SFD?

Shantanu Kumar Padhi, Water Programme Centre for Science and Environment ToT on Preparation of SFD Date: 22.06.2017
The status quo

- **Strong focus on sewerage** by IFIs and governments, but

- **Most urban dwellers with sanitation access use on-site systems**: <10% of urban Africa and <30% of urban India has sewer access

- **On-site systems** are often seen as a temporary solution and therefore neglected by city authorities and poorly managed

- **Data on sanitation not collected city-wide** so problems not properly identified and prioritized

- **Failure to manage the whole sanitation service chain**

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** The Missing Link in Sanitation Service Delivery, 2014 World Bank - WSP
Overview

- What is an SFD?
- What is not an SFD?
- Elements of a SFD
- Practical applications of SFDs
What is a SFD?

A **diagram** that shows the pathways from defecation to final fate

A concise **narrative report** on the service delivery context

A complete **record** of all the data sources
What is an SFD

- An effective communications and advocacy tool to engage city stakeholders like political leaders, sanitation experts and civil society organizations in a coordinated dialogue about excreta management.

- A tool for engineers, planners and decision-makers to inform urban sanitation programming.

- Based on contributing populations, it gives an indication of where their excreta goes.

- A representation of public health hazard.

- An overview from which to develop sanitation priorities.
What is NOT a SFD

- Based on volumes/mass – these are determined by other related factors
- A representation of public health risk (risk = hazard x behaviour)
- A precise scientific analytical tool
Elements of a SFD

- Elements of a SFD
- The SFD helpdesk
- SFD Report
- SFD Graphic

ToT, Delhi
June 2017
SFD Graphic Generator

Data input

Description of terms and variables provided in the accompanying glossary

Step One: Select the sanitation systems in use in your city

Step Two: Create your SFD matrix

Step Three: Draw your SFD graphic
# Component of SFD Report

<table>
<thead>
<tr>
<th>Aspects to Assess</th>
<th>Objective</th>
<th>Output</th>
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</thead>
<tbody>
<tr>
<td>Service Delivery Context</td>
<td>To identify the status of sanitation service delivery within the urban area (the enabling environment)</td>
<td>Narrative sections of the SFD Report</td>
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<tr>
<td>Management of excreta through the sanitation service chain</td>
<td>To identify the proportions of excreta that are safely or unsafely managed through the sanitation service chain</td>
<td>SFD Graphic</td>
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Service Delivery Context Assessment

**Enabling**
- Policy
- Planning
- Regulation

**Policy:** To what extent is sanitation included in acknowledged and available policy documents?

**Institutional roles:** To what extent are the roles and clearly defined and operationalized?

**Service provision:** Does the regulatory framework enable investment by service providers?

**Standards:** Are norms and standards systematically monitored and reported?

**Targets, Investments...**

**Developing**
- Outputs
- Equity

**Quantity / capacity:** Does access to sanitation meets the demands and targets?

**Quality:** Are the procedures and processes for monitoring and reporting access to sanitation?

**Choice:** Is there a range of affordable and appropriate tech. that meets the needs of the poor?

**Reducing inequality:** Do plans and measures ensure sanitation serves all users?

**Sustaining**
- Expansion
- Service outcomes

**Demand:** Are there policies and procedures, or programs to stimulate demand and behaviours by households?

**Sector development:** Are there ongoing programs and measures to strengthen the role of service providers (public or private) in the provision of sanitation services, in urban or peri-urban areas?
Practical applications:

- Initiate planning at city level
- Pitch for financing sanitation infrastructure
- Gaining political support
- Stakeholder involvement
- Coordination of various actors
- Establishing baselines and monitoring progress??
- Etc…
City Sanitation Plan in Ganga Basin Cities, CSE

- CSE is doing capacity building of ULBs for developing CSPs of ten small and medium cities in Ganga Basin. CSE in collaboration with the ULBs developed SFDs at the very initial stage of development of CSPs. SFDs are also presented in the CSTF meetings.
Kampala, GIZ RUWASS

- Gain common understanding of FSM issues in Kampala amongst stakeholders - Road map
- Identify synergies amongst actors
Bansberia, India
Date prepared: 02 Dec 2016
Version: Draft

Containment | Emptying | Transport | Treatment

Onsite sanitation:
- WW: Wastewater
- FS: Faecal sludge
- SN: Supernatant

- FS contained: 4%
- FS not contained: 96%
- FS not contained - emptied: 41%
- FS contained - emptied: 4%
- SN contained: 4%
- SN not contained: 96%
- SN not delivered to treatment: 45%
- FS not delivered to treatment: 45%
- FS treated: 27%
- FS not treated: 73%

Key: WW: Wastewater, FS: Faecal sludge, SN: Supernatant
- Green: Safely managed
- Red: Unsafely managed

The SFD Promotion Initiative recommends preparation of a report on the city context; the analysis carried out and data sources used to produce this graphic. Full details on how to create an SFD Report are available at: sfd.susana.org

ToT, Delhi
June 2017
Moshi, Tanzania
Elsewhere…

- Urban Sanitation Implementation Manual, Government of Uganda - Ministry of Water and Environment:
- Huge potential in India:
  - Used by GIZ Sanitation Program
  - CSE has developed SFD for 27 Cities, many cities are improving their CSPs based on the SFD
  - Alumni from TOT 1 have developed SFD of their cities like Patna, 2 towns of Coimbatore and Shakipur, Bangladesh
  - **Around 40 SFDs** have been prepared as of now.
The SFD Promotion Initiative
Partners of the SFD Promotion Initiative

SFD Promotion Initiative

sustainable sanitation alliance

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

On behalf of

Federal Ministry for Economic Cooperation and Development

UNIVERSITY OF LEEDS

WORLD BANK GROUP

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Loughborough University

CSERGE

eawag aquatic research

Sandec
Sanitation, Water and Solid Waste for Development

BILL & MELINDA GATES FOUNDATION

ToT, Delhi

June 2017
The SFD helpdesk

Possiblity to prepare an SFD online
Meanwhile, if you have any questions: sfd-helpdesk@susana.org
Soon: the SFD helpdesk

Enter information in prepared boxes

Any questions? Ask for support

Report is finished? Send to Review

Upload your documents

City Name
Kumasi

Country
Ghana

Year of Data
2016

Your organisation’s name
Your Organisation’s Name

Has there been a previous SFD for this city?
☐ Yes
☐ No

Size of Population
☐ < 100,000
☐ 100,000 - 500,000
☐ 500,000 - 1,000,000
☐ > 1,000,000

City context

This section should be a maximum of one page. Insert basic information (summary) about the city context here: Country/City Region, Population, Population growth rate, Significant variations in population (e.g. diurnal, seasonal), Topography, Climate, Key physical and geographic

Files & Media

your calculation basis (Excel)
no file uploaded yet

your SFD diagram (Powerpoint / Excel / PDF)
no file uploaded yet

your SFD report (WORD - optional to webform)
no file uploaded yet
Thank you!

Please visit www.sfd.susana.org

sfd@susana.org