From SFDs to action

Advocacy on Urban Sanitation and City Sanitation Planning

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What is an SFD?

A graphic 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
How to read an SFD graphic?

Moshi, Tanzania
Date prepared: 23/11/2015
Version: Final

Containment | Emptying | Transport | Treatment
---|---|---|---
Offsite sanitation
- WW contained: 17%
- FS contained: 30%
- FS not contained: 53%

Onsite sanitation
- WW contained: 17%
- FS contained: 19%
- FS not contained: 64%

Open defecation
- FS not contained: 11%
- FS contained: 17%
- FS not contained: 72%

10% WW treated
5% FS treated
17% FS contained not emptied
4% FS treated
64%
36%

Key:
- Green: Safely managed
- Red: Unsafely managed

Produced with support from the SFD Promotion Initiative with funding from the Bill & Melinda Gates Foundation. The SFD Promotion Initiative recommends that this graphic is read in conjunction with the city’s SFD Report which is available at sfdsusana.org
How to read an SFD graphic?

Moshi, Tanzania
Date prepared: 23/11/2015
Version: Final

Containment Emptying Transport Treatment

Offsite sanitation
WW contained: 12%
WW contained delivered to treatment: 12%

Onsite sanitation
SN contained: 9%
SN contained and delivered to treatment: 9%

F3 contained - not emptied: 17%
F3 contained: 38%
F3 contained - emptied: 10%
F3 not contained: 38%
F3 not contained - emptied: 10%

F3 delivered to treatment: 10%

10% WW treated

3% SN treated
17% F3 contained
- not emptied
8% F3 treated

2% Open defecation
22% FS not contained

27% FS not delivered to treatment
4% FS not treated
21% SN not treated
7% WW not treated

36%

64%

Local area Neighbourhood City

Key:
- Safety managed
- Unsafely managed

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The SFD Promotion Initiative recommends that this graphic is read in conjunction with the city’s SFD Report which is available at: sfd.susana.org
Excreta which are safely managed and move along the sanitation service chain are represented by green arrows moving from left to right in the graphic.
Excreta which are unsafely managed are represented by red arrows. Unsafely managed flows discharging to the environment are represented by red arrows turning towards the bottom of the graphic.
The width of each arrow is proportional to the percentage of the population whose excreta contribute to that flow.
How to read an SFD graphic?

The endpoint of the different arrows provides an indication of the likely location and scale of discharge of unsafely managed excreta to the environment.
SFD WEEK

DESIGNING AND IMPLEMENTING AFFORDABLE AND SUSTAINABLE CITYWIDE SANITATION FOR ALL

2nd to 5th of April 2019
Anil Agarwal Environment Training Institute, Neemli, Rajasthan, India

SFD Week in April 2019
The School of Water and Waste (AAETI) together with the SFD PI will host the first SFD Week in Rajasthan, India from 2nd to 5th April 2019.
Shit-Flow-Diagrams
Online training Menu

Module 1: Introduction
Module 2: The basics
Module 3: How to read an SFD graphic
Module 4: Get started with your SFD
Module 5: How to collect data for your SFD
Module 6: How to use the Graphic Generator
Module 7: The SFD report
Controlled explosion of SFDs
SFDs worldwide...
SFDs in practice –
What is possible because of SFDs…
Kick-start a discussion on sustainable sanitation in Kenia

Kick-start a discussion on sustainable sanitation in India
Gain political support for more sustainable sanitation in India
66 SFD-Fact-sheets for UP (India) … … reach the prime ministers attention
72% of Afghanistan’s population are covered by the SFD approach
SFD: The Indonesian Case (full version)

An excreta flow diagram (also often described as a shit flow diagram or SFD) is a tool to readily understand and visually communicate the journey of human excreta from source to sink.

SFD: The Indonesian Case (short version)

This is the short version of an extended video which is around 7 min long. The longer video is available under [link].
Nationwide use of an adapted SFD in Indonesia in the design of city sanitation strategies

A template of an SFD graphic in Indonesian (Source: SSK Guideline)
Country-wide SFD roll out in South Africa

Shit Flow Diagram (SFD), Durban

Key:
- Variations in % of flow
- Unsafely managed
- Safely managed
SFD potential as a monitoring tool

Information Quality (IQ)

- Min. necessary for monitoring
- Min. IQ for decision-making / planning
- Min. for city government engagement (advocacy)

SFD potential

Advocacy  Decision making / planning  Monitoring
Create sanitation intervention scenarios I/II

Lusaka - LSP Baseline, Lusaka, Zambia
Version: Draft
SFD Level: not set
Date prepared: 15 Sep 2018
Prepared by: GIZ CSF Zambia / GFA Consulting

Offsite sanitation

WW contained: 15%
FS contained: 10%
FS not contained: 81%

Onsite sanitation

FS contained - emptied: 13%
FS not contained - emptied: 22%

Open defecation

5% Open defecation
39% FS not contained
28% FS not delivered to treatment
5% WW not delivered to treatment
1% FS not treated
7% WW not treated

Key: WW: Wastewater, FS: Faecal sludge, SN: Supernatant

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 std.susana.org
Create sanitation intervention scenarios II/II

Lusaka - LSP Vision 2022, Lusaka, Zambia
Version: Draft
SFD Level: not set
Date prepared: 15 Sep 2018
Prepared by: GIZ CSF Zambia / GFA Consulting

Scenario a) 12,000 new toilets, 4 new FSTPs
Highlight equity aspects in cities (II/II)

*(2015) Center for Science and the Environment, Delhi
SFDs in practice –
Global perspective... Indian perspective...
South African perspective...