What is an SFD?
एस एफ डी क्या है ?

Online Training ‘Offsite and Onsite Management of Sewage for Citywide Sanitation,
13-14 January 2021
The status quo (यथा स्थिथि)

- **Strong focus on sewerage** by IFIs and governments, but (सीवरेज सरकार का केंद्र बिंदु है)

- **Most urban dwellers with sanitation access use on-site systems**: <30% of urban India has sewer access (शहरो में मुख्य रूप से ऑनसाइट सेनिटेशन सिस्टम है)

- **On-site systems** are often seen as a temporary solution and therefore neglected by city authorities and poorly managed (ऑनसाइट सेनिटेशन सिस्टम को अस्थायी उपाय माना जाता है)

- **Data on sanitation not collected city-wide** so problems not properly identified and prioritized (पुरे शहर का सेनिटेशन डाटा कलेक्ट नहीं किया जाता है, जिससे समस्या का पता लगे)

- **Failure to manage the whole sanitation service chain** (सेनिटेशन सर्विस चैन का असफल प्रबंध)

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

- What is an SFD? (एस एफ डी क्या है ?)
- Elements of a SFD (एस एफ डी के मूल तत्व)
- How to read an SFD (एस एफ डी कैसे पढ़ें)
- How to prepare an SFD
- Practical applications of SFDs (एस एफ डी की उपयोगिता)
What is a SFD?
(एस एफ डी क्या है ?)

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.
Practical applications: (एस एफ डी की उपयोगिता)

- Initiate planning at city level (शहरों की योजना बनाने में सुत्तपात)
- Pitch for financing sanitation infrastructure (सैिनटेशन इन्फ्रास्ट्रक्चर के लिए वित्त व्यवस्था रूप रेखा देता है)
- Gaining political support (राजनेतिक सहायता)
- Stakeholder involvement (हिकार्ताओं की भागीदारी)
- Coordination of various actors (विभिन्न हिकार्ताओं के बीच में समन्वय)
- Establishing baselines and monitoring progress?? (आधार रेखाओं स्थापित करना और प्रगति की निगरानी)
- Etc…
Advocacy at City, State and National level

INDIA'S 1ST FAECAL SLUDGE MANAGEMENT PROJECT FUNDED BY NATIONAL MISSION FOR CLEAN GANDA

PROPOSED 10 KLD PILOT FAECAL SLUDGE AND SEPTAGE TREATMENT PLANT - CHUNAR

OVERVIEW

- Swachh Bharat Mission (Clean Ganga) aims to ensure effective management of faecal sludge and septage to control diffuse pollution and promote river health through faecal sludge management initiatives.
- Overseas Development Assistance (ODA) is providing better support to the project and envisages improvement in waste management infrastructure.
- The project is a collaborative effort between the Ministry of Environment, Forests and Climate Change and the Ministry of Urban Development.
- Site selection is based on socio-economic factors, cultural characteristics, and other strategic considerations.
- The project is expected to contribute towards the achievement of sustainable development goals.
## Component of SFD Report

<table>
<thead>
<tr>
<th>Aspects to Assess</th>
<th>Objective</th>
<th>Output</th>
</tr>
</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>
</tr>
<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>
</tr>
</tbody>
</table>
How to Read SFD..? (एस एफ डी कैसे पढ़ें)
Red or Green: Whether the arrows would be red or green is dependent on whether the system at that stage is contained or not.

**Contained:** Sanitation Technology and/or system which ensures safe level of protection from Excreta i.e. pathogen transmission to the user or general public is limited.

**Not Contained:** Sanitation technology and/or system which does not ensure safe level of protection from Excreta. i.e. pathogen transmission to the user or general public is likely.
How to prepare a Shit Flow Diagram (SFD)?
Indian SFD Story SO far…
(इंडियन एसएफडी की अबतक की कहानी)

• Tested the methodology of data collection (डाटा कलेक्ट करने की कार्यप्रणाली का परीक्षण)
• More than 500 SFDs (different versions) developed in India, by various agents (भारत में 500 से अधिक एसएफडी विकसित किये गए विभिन्न एजेंट्स द्वारा)
• CSE developed more than 100 SFDs (सीएसई द्वारा 100 से अधिक एसएफडी विकसित किये गए)
• Used as an advocacy tool to sensitize the decision makers (निर्णयकर्ता के लिए पक्षपात करने वाला साधन)
• Done baseline study for developing City Sanitation Plans in Ganga basin (represents almost 40% Indian population) (गंगा बेसिन के शहरों की बेसलाइन स्टडी की गयी शहरव्यापी स्वच्छता योजना विकसित करने के लिए)
• Did analysis of sanitation in Urban Uttar Pradesh (most populous state in India) using SFDs of 66 major cities (शहरी उत्तर प्रदेश सैनिटेशन सैनिटेशन का विश्लेषण किया गया)
• Done baseline study of Hindon river basin through SFDs to decide on the relevant projects (हिंडन रिवर बेसिन की एसएफडी द्वारा बेसलाइन स्टडी की गयी)
• Used SFDs to monitor the progress of cities (एसएफडी द्वारा शहरों की प्रगति की निगरानी)
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.

सीएसई द्वारा गंगा बेसिन के दस छोटे और माध्यमिक शहरों की शहरव्यापी स्वच्छता योजना के लिए शमता निर्माण किया जा रहा है, सीएसई ने यूअलबी के साथ मिलकर शहरों के एसअफडी तैयार किये हैं शहरव्यापी स्वच्छता योजना के आरम्भिक स्टेज में.
SFD of Urban Uttar Pradesh

CSE’s analysis reports released by PS UD at State Workshop & by the Secretary MoHUA and DG NMCG at SFD Week
Elements of a SFD

SFD Graphic

SFD Report

The SFD helpdesk
## SFDs worldwide

<table>
<thead>
<tr>
<th>Region</th>
<th>Reviewed SFD</th>
<th>Draft version available</th>
<th>Under preparation</th>
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<tbody>
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<td>0</td>
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<tr>
<td>Asia &amp; Pacific</td>
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<td>3</td>
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<td>11</td>
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<tr>
<td>Middle East &amp; Northern Africa</td>
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<td>3</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>118</strong></td>
<td><strong>9</strong></td>
<td><strong>21</strong></td>
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SFD Promotion Initiative – Consortium Partners

SFD Promotion Initiative

sustainable sanitation alliance

UNIVERSITY OF LEEDS

WEDC

Loughborough University

WORLD BANK GROUP

giz

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

On behalf of

Federal Ministry for Economic Cooperation and Development

WSP

water and sanitation program

eawag

aquatic research

Sandec

Sanitation, Water and Solid Waste for Development

BILL & MELINDA GATES FOUNDATION