

# SFD Thinking

## SFDs going viral in Indonesia

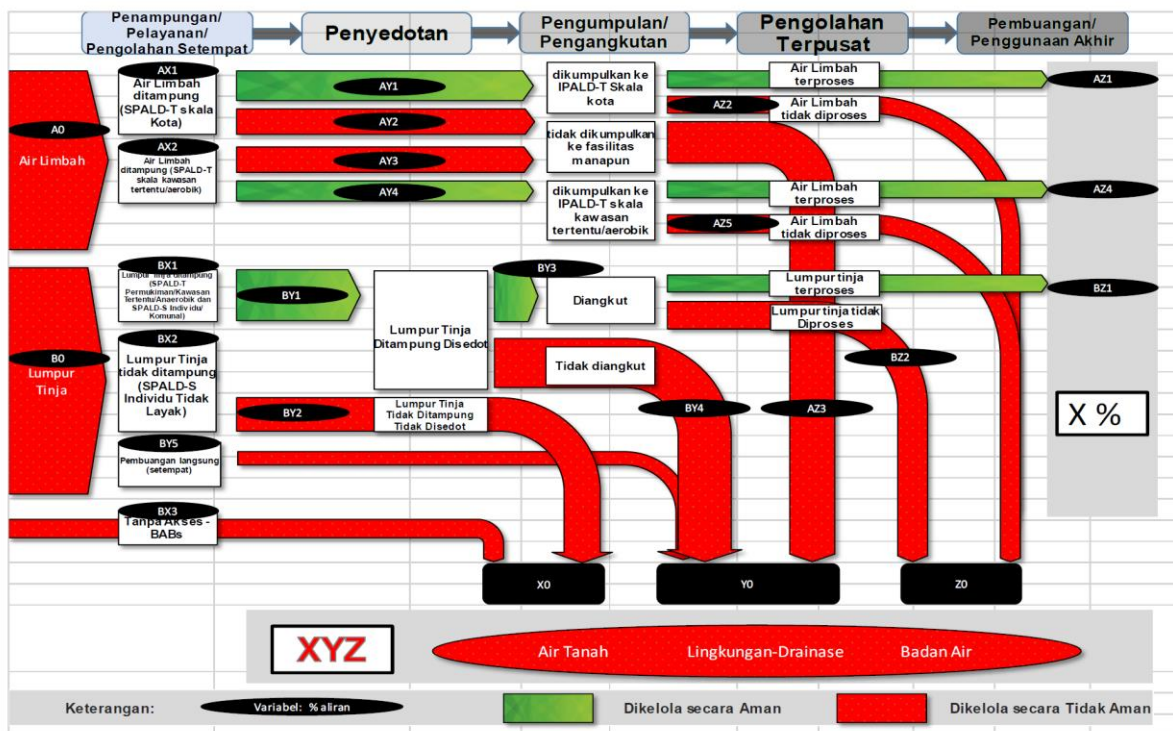


Figure 1. A template of an SFD graphic in Indonesian (Source: SSK Guideline)

Since 2017, each city/regency in Indonesia has been requested to incorporate an SFD graphic into the respective sanitation strategy document (SKK). Within 2017 already 134 cities and regencies submitted the SKK and according to the Ministry of Public Works, another 46 documents from cities and regencies were expected in 2018.

With the total number of 490 cities and regencies participating in the national Accelerated Sanitation Development for Human Settlements Program (PPSP) program, which had been introduced by the Government of Indonesia in 2009, more SFD graphics are likely to be produced in the future.

## **SFD Thinking: The SFD in Indonesia – cities’ instrument towards universal access to sanitation**

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**Date:** 15/08/2018

**Link to detailed Case Story:** [https://www.susana.org/\\_resources/documents/default/3-3567-7-1553008587.pdf](https://www.susana.org/_resources/documents/default/3-3567-7-1553008587.pdf)

### **Introduction**

The attention to the city’s sanitation program has been increasingly rising since the Government of Indonesia (GoI) introduced the national Accelerated Sanitation Development for Human Settlements Program (PPSP) in late 2009. The GoI places the target to provide 100 percent access to sanitation preceding the SDG target in 2030 (SDG6) and to increase access to improved sanitation for households and communities and a safe faecal sludge management system to 85 percent and to a safe sewerage system to 15 percent by 2019.

### **More than 100 SFDs produced in Indonesia**

The Sanitation System Diagram (DSS) appeared earlier in Indonesia and served as an instrument to describe the sanitation infrastructures qualitatively. With the growing needs for mapping the condition of the sanitation infrastructure developments, The Shit Flow Diagram (SFD) was introduced and acts as an advanced instrument to visualize the sanitation system in Indonesia quantitatively.

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### **Involvement of sanitation facilitators**

In 2017, a technical workshop on how to establish an SKK document was conducted by the National Development Planning Agency (BAPPENAS) and the Ministry of Public Works and Housing (KemenPUPR) for multi-level water and sanitation working groups as well as city/regency’s facilitators, who assist local authorities in composing the document. The SFD session was included in the workshop aiming to facilitate the participants to learn how to use the tool, since it has been adjusted to the national conditions of the sanitation chain and the existing types of toilets in Indonesia. The training is significant to understand the use of the graphic generator, such as identifying the sanitation system used for generating the outcome.

### **Comparing the nationally adapted graphic generator (GG) to the international GG**

The SFD online graphic generator is available in Indonesian with the support from the World Bank and can be accessed through the National Water and Sanitation Information Services

(NAWASIS<sup>1</sup>) Portal (<http://portal.nawasis.info/sfd/>) managed by the national Water and Sanitation Working Group (Pokja AMPL).

The Indonesian graphic generator does not take into account the faecal sludge (FS) and supernatant (SN), as only blackwater accounts in the system, resulting in percentage differences of safely and unsafely managed sanitation. While the original version of the SFD online graphic generator considers also the FS ratio contained in each containment, the Indonesian version neglects this ratio. In the Indonesian version, the blackwater in the sanitation chain is considered as safely managed, if the effluent is safely treated up to the end of the chain. On the other hand, the original version of the SFD online graphic generator calculates, if the FS is contained but not emptied, it is still considered as safely managed.

This differences have been visualized in a dummy SFD graphic for the city Atlanta, figure 2 showing the SFD graphic generated using Indonesian graphic generator and figure 3 using the SFD-PI graphic generator.

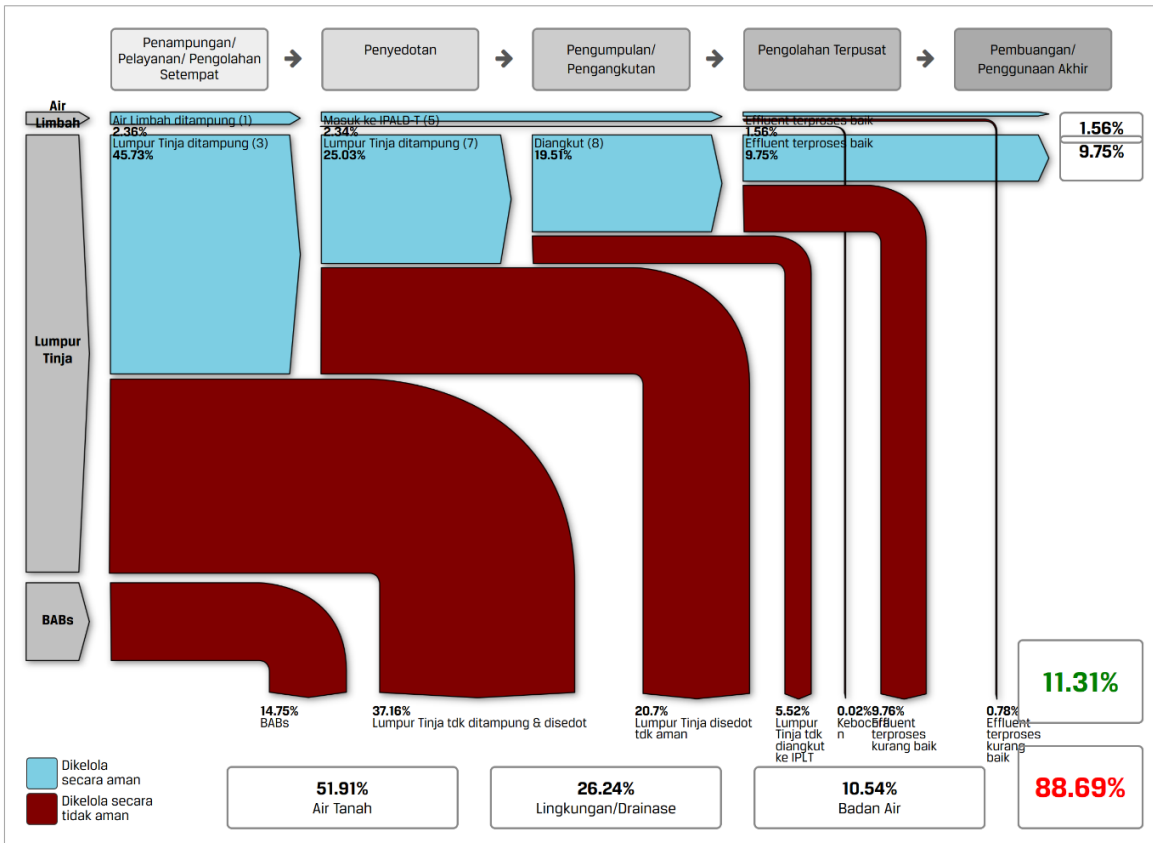


Figure 2. SFD graphic of the city 'Atlantis' generated using Indonesian graphic generator

<sup>1</sup> NAWASIS is a web-based information and data centre developed by the Gol aiming at knowledge management in the water and sanitation sector

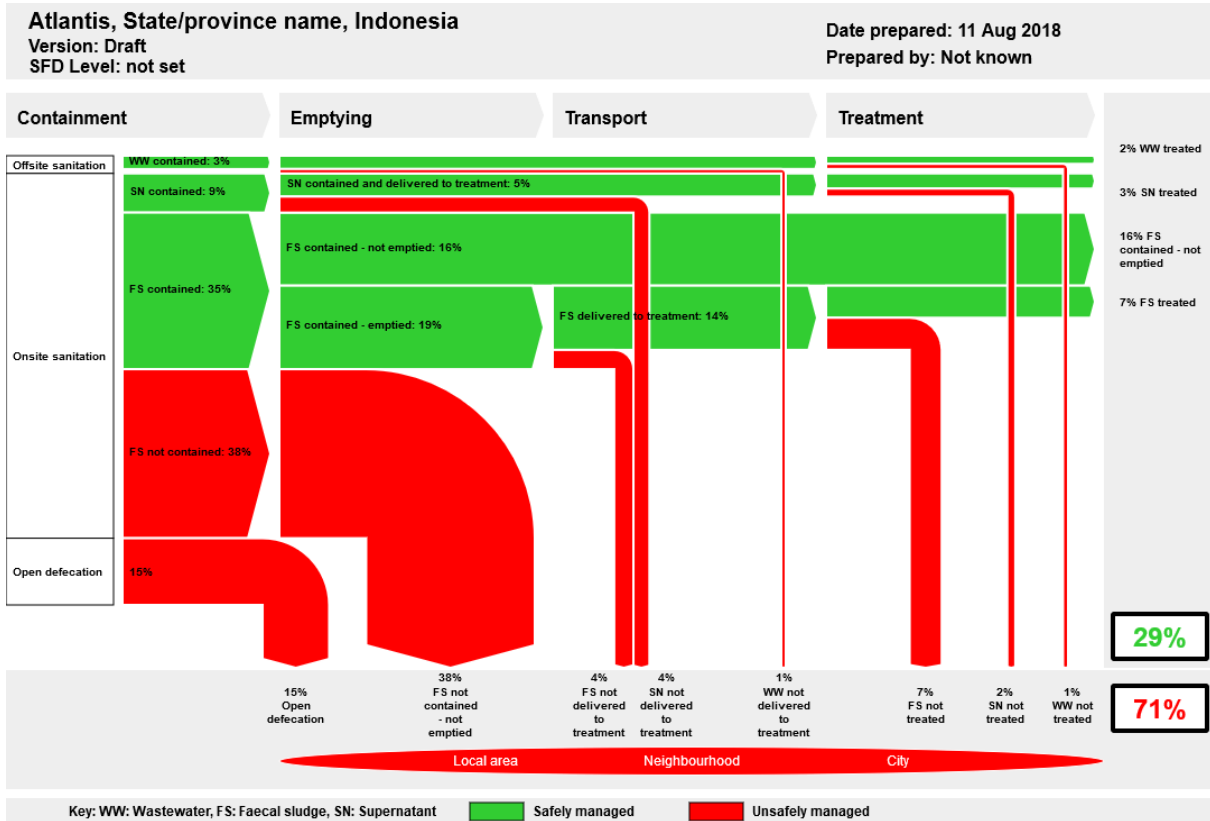


Figure 3. SFD graphic of the city 'Atlantis' generated using SFD-PI online graphic generator

### Future applicability

As reported by the World Bank, the commitment of using SFDs among local governments in Indonesia proves to be ambitious and exciting. If the local governments could maximize the use of the SKK document comprehensively with an SFD as one of city's instruments, the provision of the sanitation access in Indonesia is unlikely to go off-track. Therefore, the SFD is an encouraging tool for helping the local governments achieving national targets in the upcoming year. With the total number of 490 cities and regencies participating in the national Accelerated Sanitation Development for Human Settlements Program (PPSP) program, which had been introduced by the Government of Indonesia in 2009, more SFD graphics are likely to be produced in the future. For more information, a detailed case story on "The Shit Flow Diagram in Indonesia – cities' instrument towards universal access to sanitation" has been published in the SuSanA library here: [LINK EINFÜGEN](#)

*The SFD Promotion Initiative collects examples and feedback on ways in which SFDs are used. These experiences are documented as the ‘SFD Thinking’.*

*If you would like to tell us your story, send us a message: [sfd@susana.org](mailto:sfd@susana.org)*

*SFD Thinking are available from: [www.sfd.susana.org](http://www.sfd.susana.org)*

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