BEAUMONT SFD Generator

Intro

- Previously managed the Fecal Sludge Omni-Ingestor project for the foundation
- SFD Generator is a self-inflicted effort to make the SFD easier to interpret

Purpose

Creation

- Requires PowerPoint
- Time consuming (1 day)
- New information requires resizing bars and arrows
- Inaccurate

Interpretation

- Not always legible
- Not intuitive except to those familiar with it
- Low audience comprehension

Stockholm		925,900		Sweden			
Collection Type		Percent Utilized	Percent Safely Emptied	Percent Safely Delivered	Percent Safely Treated	Percent Safely Managed	Percent Unsafely Managed
\$	Centralized Sewer	20		60	40	4.8%	15.2%
WC to Sewer	Decentralized Sewer	16		50	50	4%	12%
*	On-Site: Emptied	40	80	70	30	6.7%	33.3%
On-Site Sanitation	On-Site: Stored	10	90			9%	1%
Other 🌣	Open Defecation & Direct Discharge	14				0%	14%
Total		100%				24.5%	75.5%

- Location & population information
- Percent properly managed
- Error checking
- Customizable

Stockholm		925,900		Sweden				
Collection Type		Percent- Utilized	Safely Emptied	Safely Delivered	Safely Treated	Safely Managed	Percent Unsafely Managed	
WC to Sewer	Centralized Sewer Decentralized Sewer		20 16		60 50	40 50	4.8%	15.2% 12%
On-Site Sanitation	On-Site: Emptied On-Site: Stored		40 10	80 90	70	30	6.7% 9%	33.3% 1%
Other 🌣	Open Defecation & Direct Discharge Total		14 100%				0% 24.5%	14% 75.5%

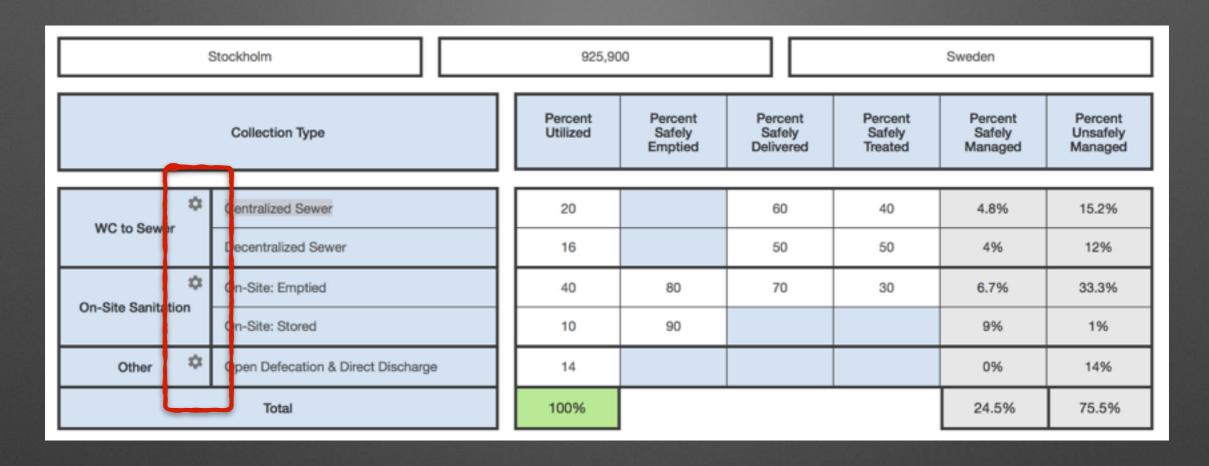
Location & population information

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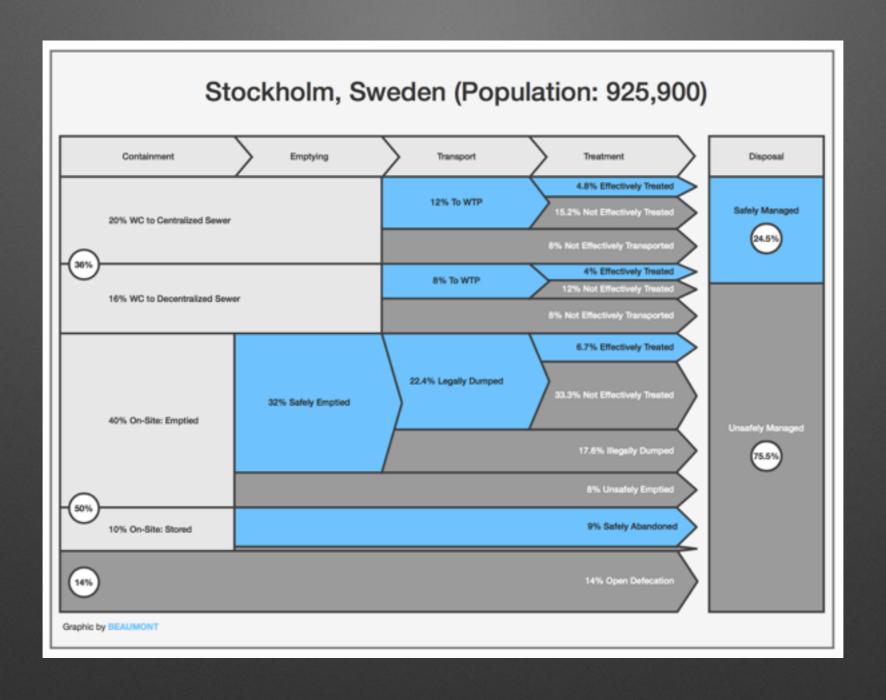
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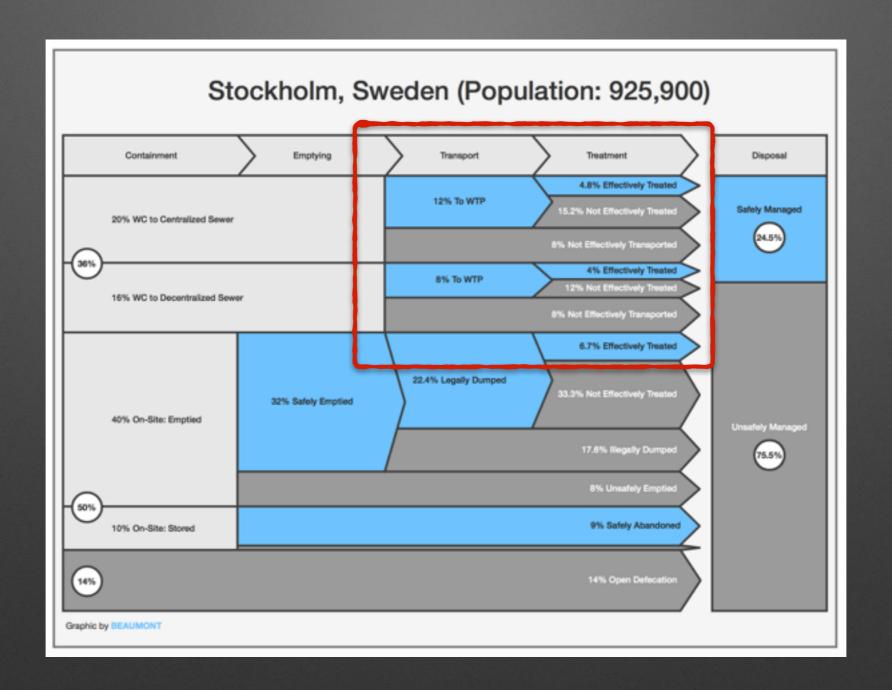
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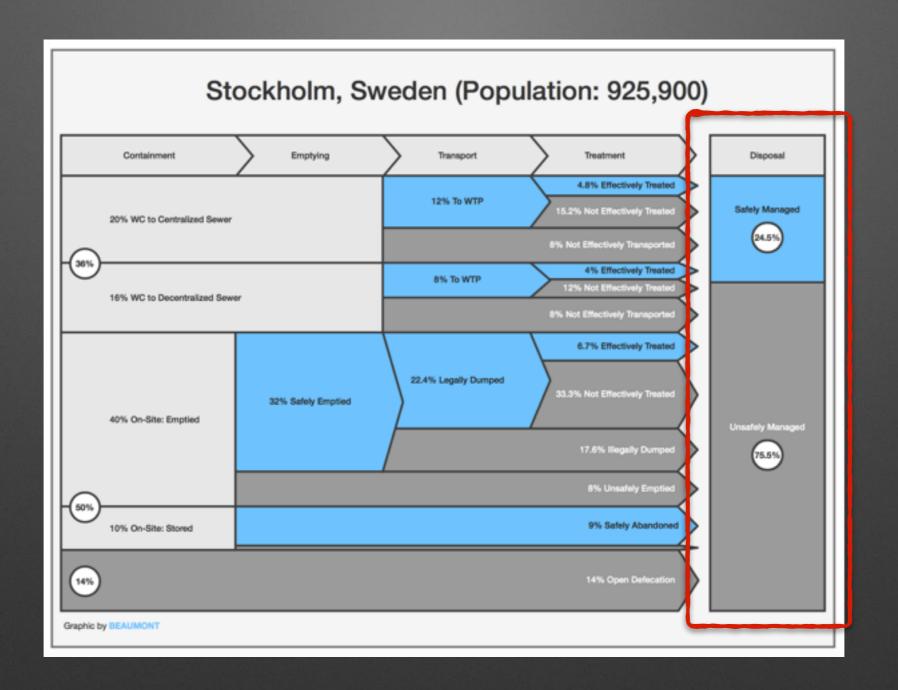


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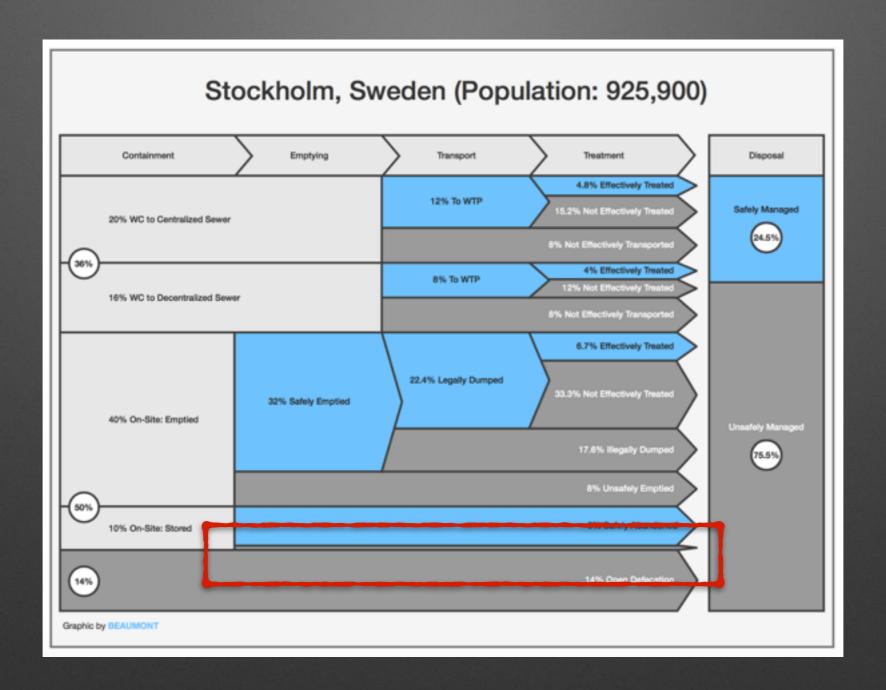




Row heights are proportional and auto-updating



Bar Graph is proportional and easy to interpret



Text removed from narrow rows

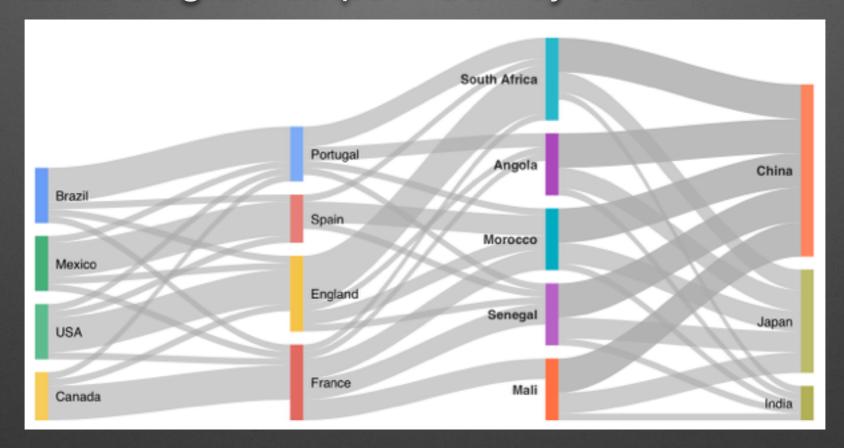
- First-time user required 15 minutes to create a diagram.
- Images can be downloaded or automatically downloaded depending on browser used.
- Descriptions are easy to read (in theory).
- Key input and output values are highlighted.

Tools & Support

- Javascript Software as a Service (SaaS) platform using Javascript, NodeJS, Meteor JS
- Rendered using HTML Canvas and SVG
- Database is document structured, schema-less design developed with MongoDB
- Works with Chrome, Firefox, Safari (OSX & Windows)
- Partial compatibility with Internet Explorer

Version 2

Alternative diagram output - Sankey Chart



- Highlight reused material
- Advanced reporting (by country?)
- Other improvements?

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