## **Rolling out the Shitflow Diagram**

Peter Hawkins, Senior Water and Sanitation Specialist AfricaSan 4, 27 May 2015



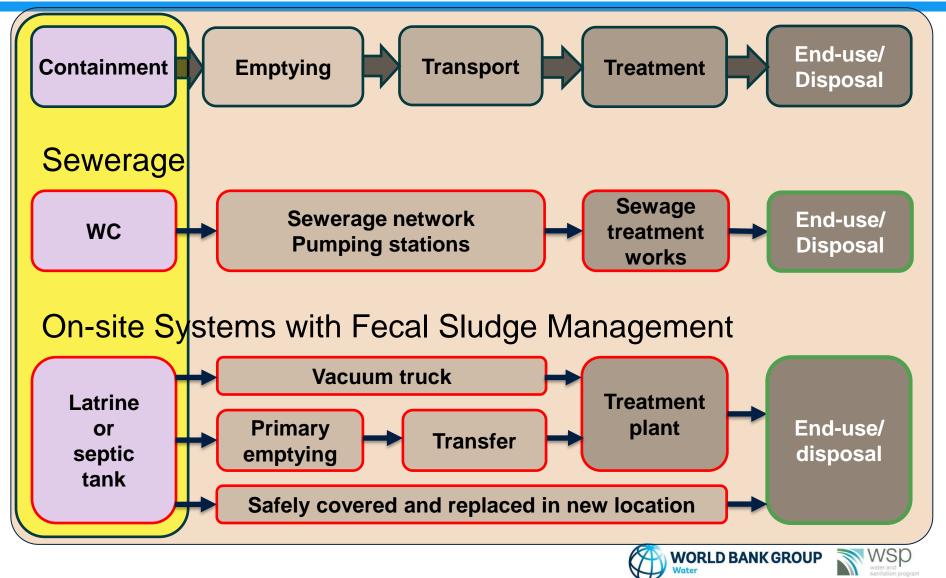


www.wsp.org | www.worldbank.org/water | www.blogs.worldbank.org/water



#### **The Sanitation Service Chain**

#### MDGs Post-2015 SDG Proposals



		Collection		Transport		Treatment	
Type of System		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated
Sewered	11%						
On-site (permanent)	76%						
On-site (single use)	12%						
Open defecation	1%						



		Colle	ction	Transport		Treatment	
Type of System	Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated	
Sewered	11%	100%		<mark>90%</mark>		35%	
On-site (permanent) 76%		38%		75%		35%	
On-site (single use)	12%	100%					
Open defecation	1%	0%					



		Colle	ction	Trans	sport	port Treatme	
Type of System		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated
Sewered	11%	100%	0%	90%		35%	
		11.0%	0.0%				
On-site (permanent)	On-site (permanent) 76%		62%	75%		35%	
		29.0%	47.4%				
On-site (single use)	12%	100%	0%				
Open defecation	1%	0%	100%				



		Colle	ction	on Transport		Treatment	
Type of System		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated
Sewered	11%	100%	0%	90%		35%	
		11.0%	0.0%				
On-site (permanent)	76%	38%	62%	75%		35%	
		29.0%	47.4%				
On-site (single use)	12%	100%	0%				
Open defecation 1%		0%	100%				
UNSAFE	1%		47%				





		Colle	ction	Trans	sport	Treatment	
Type of System		Collected	Collected Not Collected		elivered Not Delivered		Not Treated
Sewered	11%	100%	0%	90%	10%	35%	
		11.0%	0.0%	9.9%	1.1%		
On-site (permanent)	76%	38%	62%	75%	25%	35%	
		29.0%	47.4%	21.8%	7.3%		
On-site (single use)	12%	1 <b>00</b> %	0%				
Open defecation 1%		0%	100%				
UNSAFE	1%	47%		8%			
						WORLD BA	





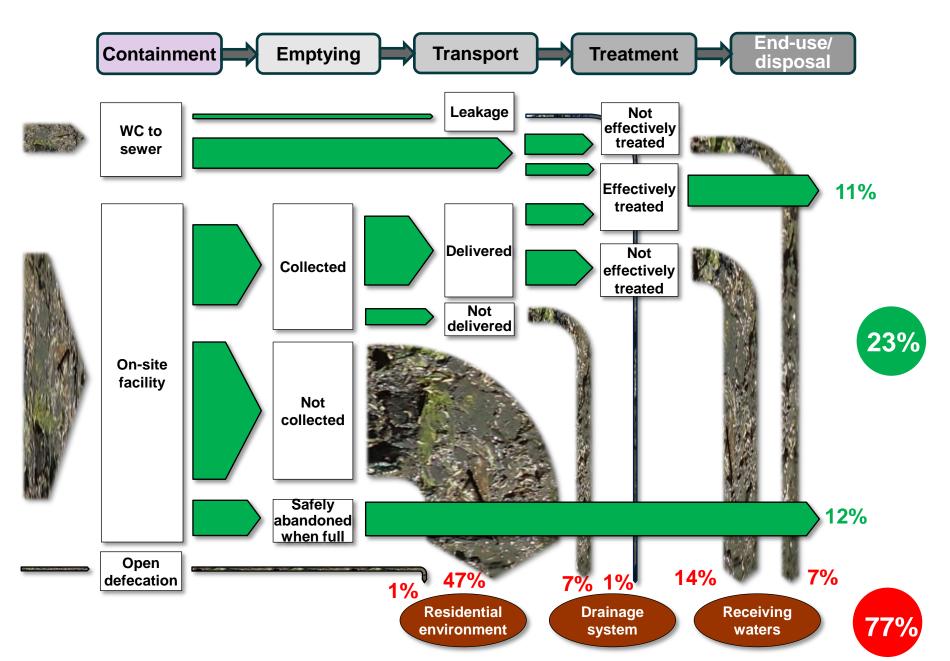
		Colle	ction	Trans	sport	Treatment	
Type of System		Collected Not Collected		Delivered	elivered Not Delivered		Not Treated
Sewered	11%		0%	90%	10%	35%	65%
		11.0%	0.0%	9.9%	1.1%	3.5%	6.4%
On-site (permanent)	76%	38%	62%	75%	25%	35%	65%
		29.0%	47.4%	21.8%	7.3%	7.6%	14.2%
On-site (single use)	12%	100%	0%				
Open defecation 1%		0%	100%				
UNSAFE	1%	47%		8%		<b>6</b> 21%	
					(A)	WORLD BA	NK GROUP





		Colle	ction	Trans	sport	Treat	ment	SAFE
Type of System		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated	23%
Sewered	11%	100%	0%	90%	10%	35%	65%	3%
		11.0%	0.0%	9.9%	1.1%	3.5%	6.4%	
On-site (permanent)	<b>76%</b>	38%	62%	75%	25%	35%	65%	8%
		29.0%	47.4%	21.8%	7.3%	7.6%	14.2%	
On-site (single use)	12%	100%	0%					12%
Open defecation	1%	0%	100%					
UNSAFE 77%	1%		47%		8%		21%	
								WSP water and sanitation program

#### Lusaka Shitflow Diagram (SFD)



#### What is an SFD?

#### L It IS

- A tool for engineers, planners and decision-makers
- Based on contributing populations and an indication of where their excreta goes
- A representation of public health hazard
- An effective communications and advocacy tool
- An overview from which to develop sanitation priorities

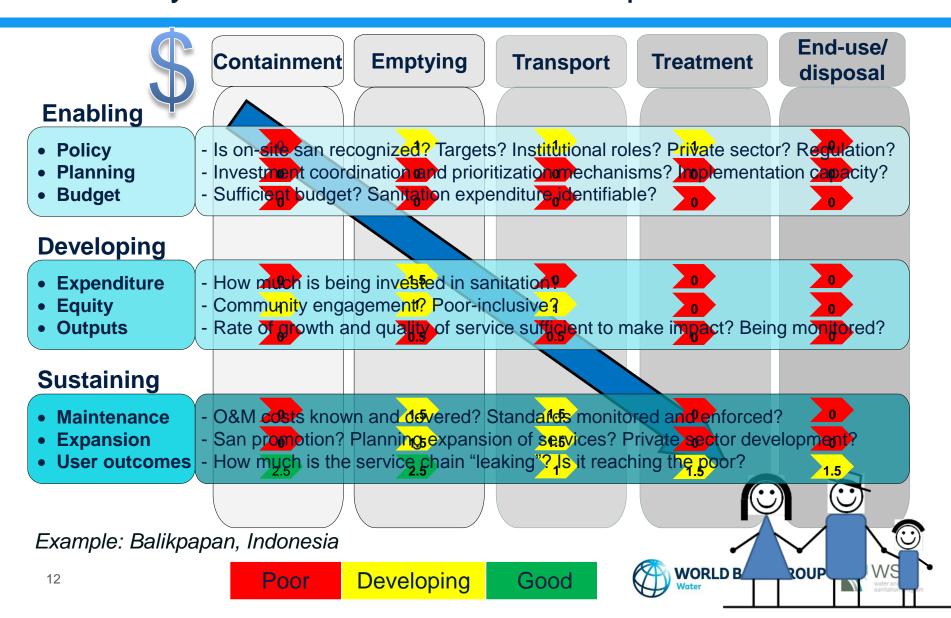
#### It is NOT

- Based on actual volumes/mass these are determined by other related factors
- A representation of public health *risk*
- A precise scientific analytical tool



(risk = hazard x behavior)

#### **SFD Context: Service Delivery Assessment** What systems exist and who is responsible?



## **The SFD Promotion Initiative – Origins**

- First SFDs published by WSP in 2013 to provide a concise overview of sanitation in a city
- Proved very effective for advocacy, intuitively understood by both decision-makers and professionals
- Well received by sanitation practitioners globally, and spontaneously adopted by many
- Promotion initiative
  - Disseminate the approach
  - Provide technical support guidelines and tools
  - Maintain its credibility
  - Benchmarking and progress monitoring





### **The SFD Promotion Initiative – Partners**

- **GIZ/SuSanA** coordinator
- Centre for Science and Environment (CSE), Delhi
- SANDEC/EAWAG, Switzerland
- University of Leeds, UK
- WEDC/University of Loughborough, UK
- WSP/ World Bank
- Bill & Melinda Gates Foundation funding



## **The SFD Promotion Initiative – Objectives**

- Develop an interactive web platform hosted by SuSanA:
  - Drafting tool, blank templates, guidance documents, interactive training package
  - Uploaded SFDs with quality controlled by a SuSanA Task Force
  - Fully searchable via both text and an interactive map of cities with an SFD
- Continuously develop, document and disseminate SFD progress



## **The SFD Promotion Initiative – Phasing**

- Phase 1: to October 2015
  - Draft methodology and tools
  - Establish website
  - Upload 50 quality-controlled SFDs
- Phase 2:
  - Refine methodology, tools and templates
  - Develop guidance documents and interactive training package
  - Establish Task Force to moderate website
  - Receive and quality control SFDs for posting on website



# Thank You For Your Attention

A LE

# PAKUA CHOO NA KARO KWA BEI POA, 0755. -846803.





www.wsp.org | www.worldbank.org/water | www.blogs.worldbank.org/water | 🈏 @WorldBankWater

