

Rolling out the Shitflow Diagram

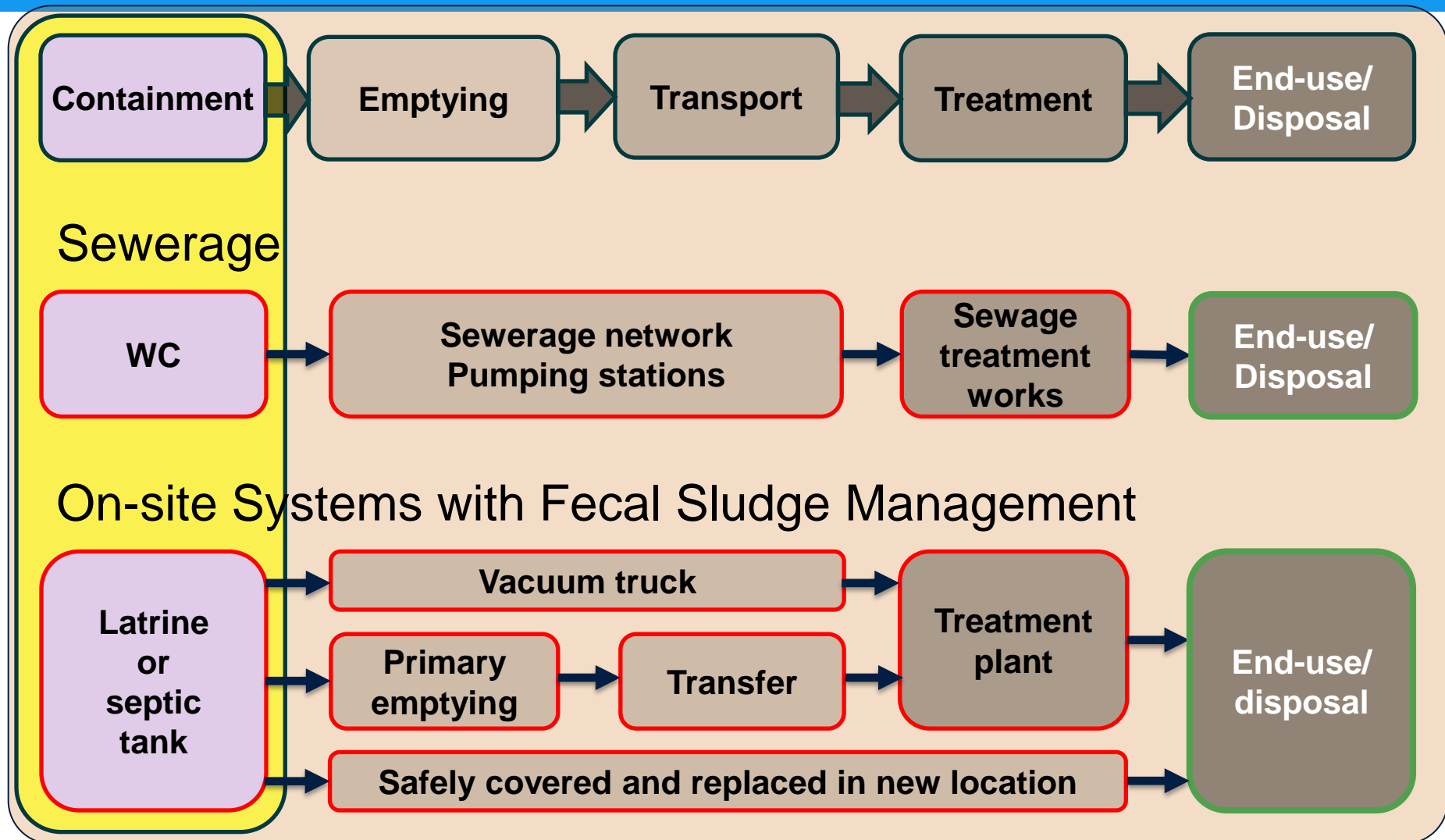
Peter Hawkins, Senior Water and Sanitation Specialist
AfricaSan 4, 27 May 2015



The Sanitation Service Chain

MDGs

Post-2015 SDG Proposals



WORLD BANK GROUP
Water



Estimating Fecal Waste Flows: Lusaka

Type of System		Collection		Transport		Treatment	
		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated
Sewered	11%	Yes	No	Yes	No	Yes	No
On-site (permanent)	76%	Yes	No	Yes	No	Yes	No
On-site (single use)	12%	Yes	No	No	No	No	No
Open defecation	1%	No	No	No	No	No	No

Estimating Fecal Waste Flows: Lusaka

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

Estimating Fecal Waste Flows: Lusaka

Type of System		Collection		Transport		Treatment	
		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%				

Estimating Fecal Waste Flows: Lusaka

Type of System		Collection		Transport		Treatment	
		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%				

Estimating Fecal Waste Flows: Lusaka

Type of System		Collection		Transport		Treatment	
		Collected	Not Collected	Delivered	Not Delivered	Treated	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%	100%	0%				
Open defecation	1%	0%	100%				
UNSAFE	1%		47%		8%		

Estimating Fecal Waste Flows: Lusaka

Type of System		Collection		Transport		Treatment	
		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated
Sewered	11%	100%	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%		21%

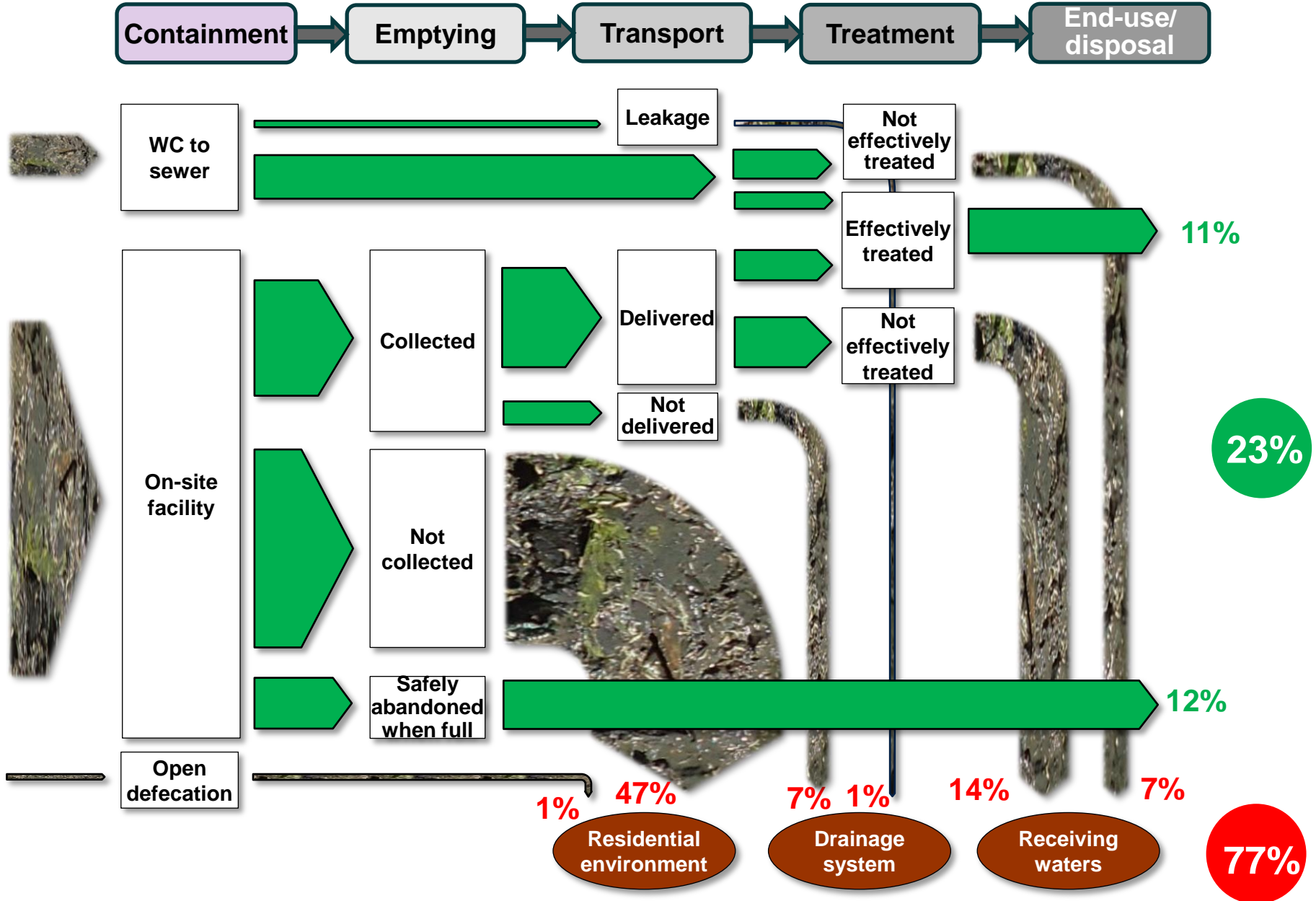


Estimating Fecal Waste Flows: Lusaka

Type of System		Collection		Transport		Treatment		SAFE 23%
		Collected	Not Collected	Delivered	Not Delivered	Treated	Not Treated	
Sewered	11%	100%	0%	90%	10%	35%	65%	3%
		11.0%	0.0%	9.9%	1.1%	3.5%	6.4%	
On-site (permanent)	76%	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%			



Lusaka Shitflow Diagram (SFD)



What is an SFD?

□ It IS

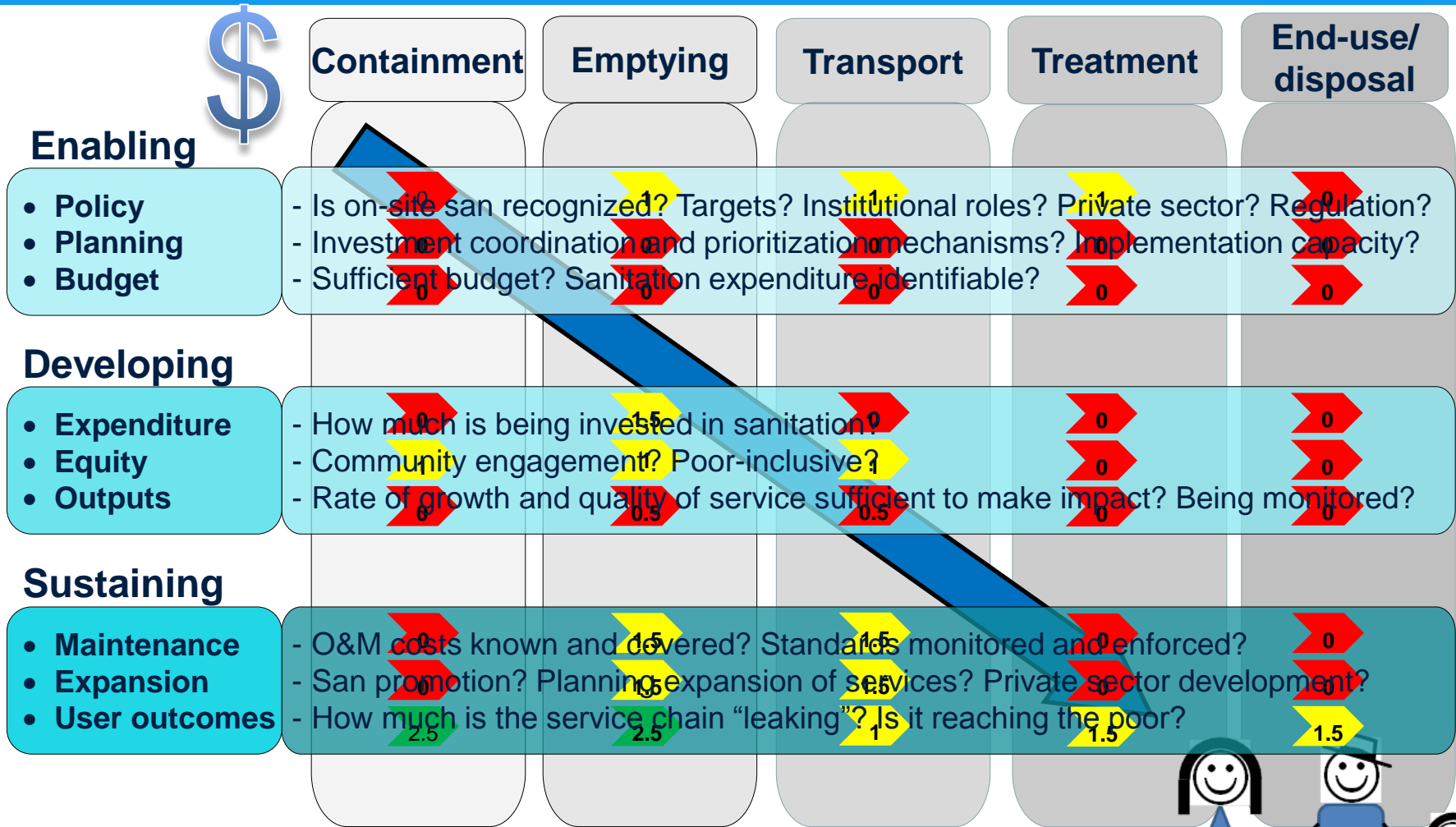
- A tool for engineers, planners and decision-makers
- Based on contributing populations and an indication of where their excreta goes
- A representation of public health **hazard**
- An effective communications and advocacy tool
- An overview from which to develop sanitation priorities

□ It is NOT

- Based on actual volumes/mass – these are determined by other related factors
- A representation of public health **risk** ($risk = hazard \times behavior$)
- A precise scientific analytical tool

SFD Context: Service Delivery Assessment

What systems exist and who is responsible?



Example: Balikpapan, Indonesia



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



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