

Citywide and Countywide Inclusive Sanitation and the Role of Simplified Sewerage

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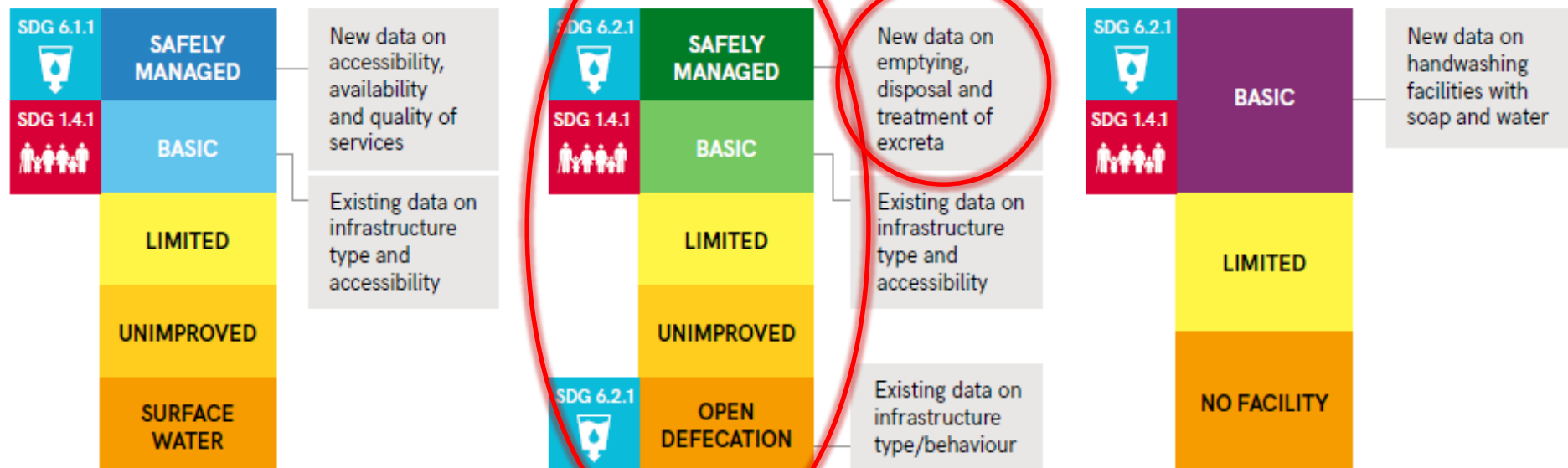
AfWA Congress, Kampala
February 26, 2020



Moving from the MDGs to the SDGs

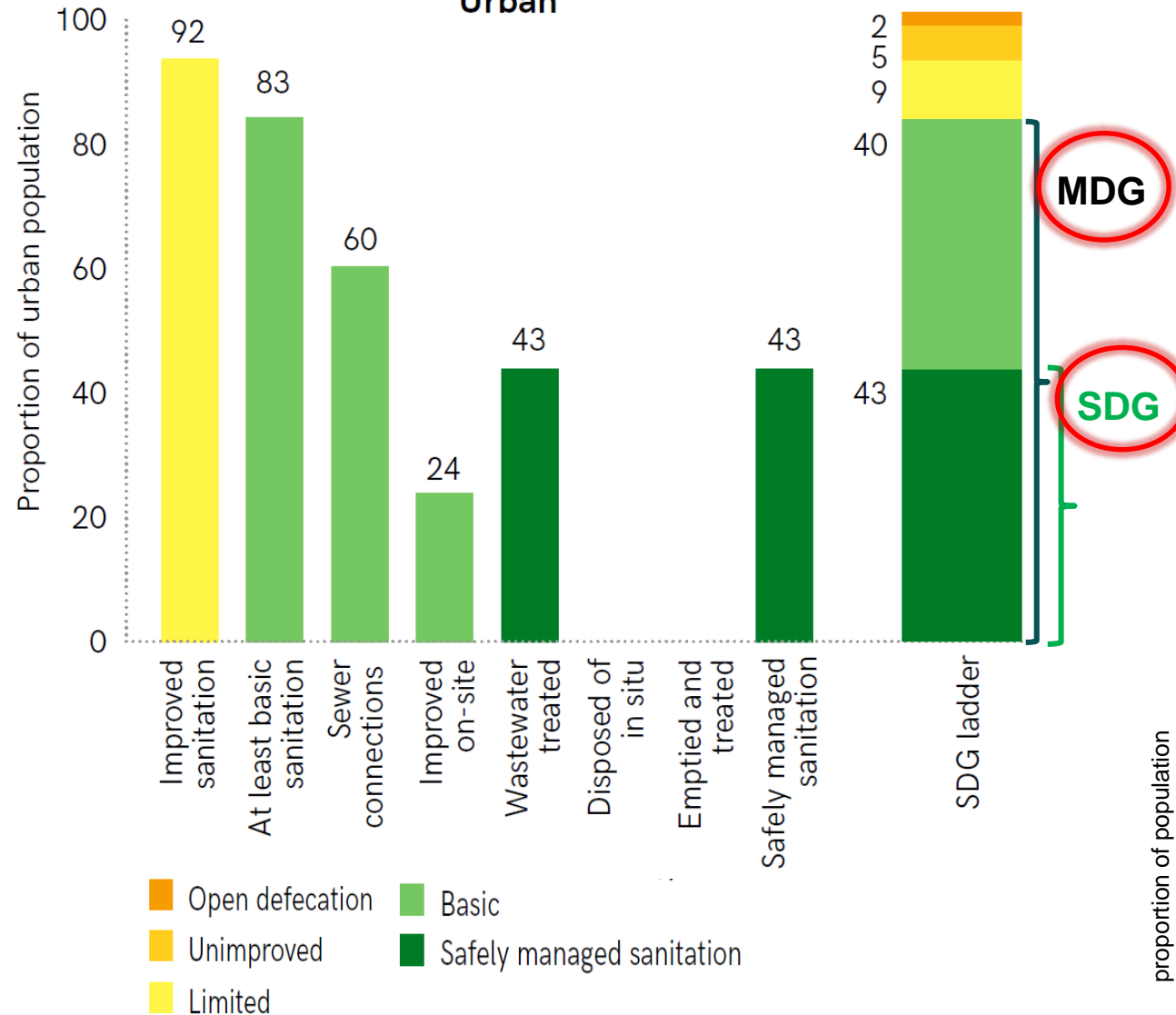
- Goals are technology neutral with ladder concept
- Sanitation service chain is adopted
- Aspects of sustainability included
- Hygiene goal introduced

Updated JMP ladders for drinking water and sanitation and a new ladder for hygiene



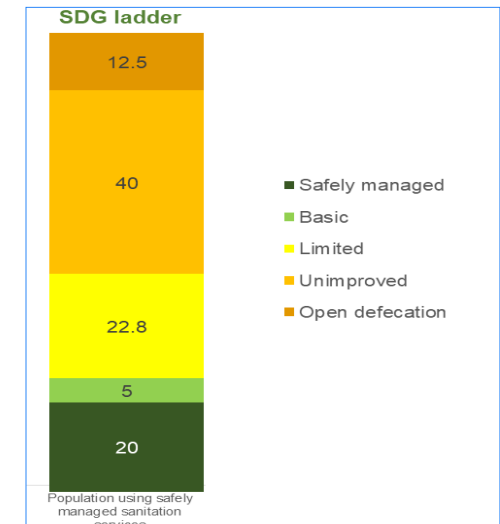
The world figures are looking lower...

Urban



According to the 2015 SDG baseline:

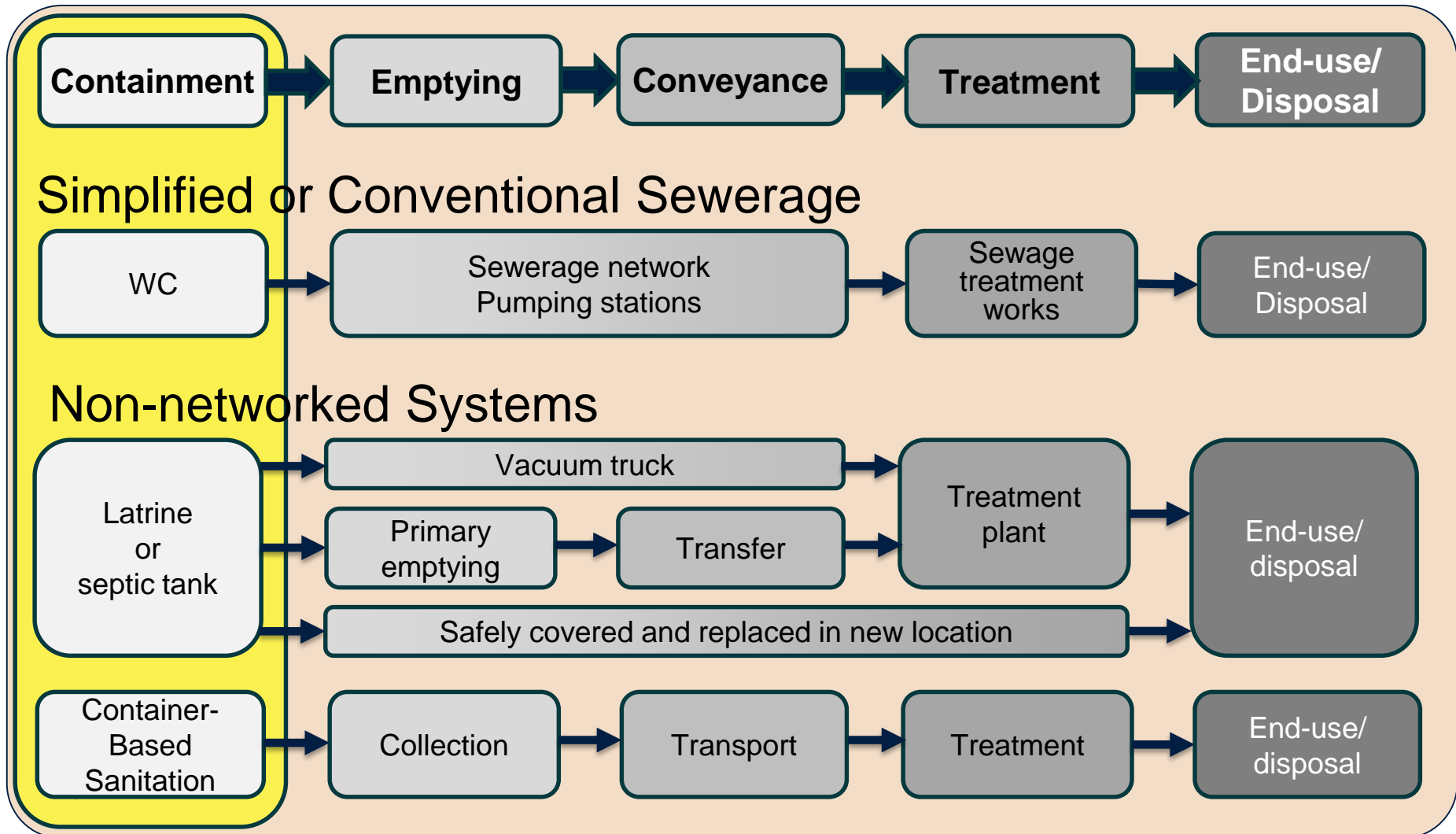
- **4.5 billion people** in the world don't have access to safely managed sanitation
- **57% of people living in urban areas** do not have toilets which provide a full sanitation service
- **16%** don't have a basic sanitation service



The sanitation service chain

MDGs

SDGs



Growing cities and growing... sanitation problems



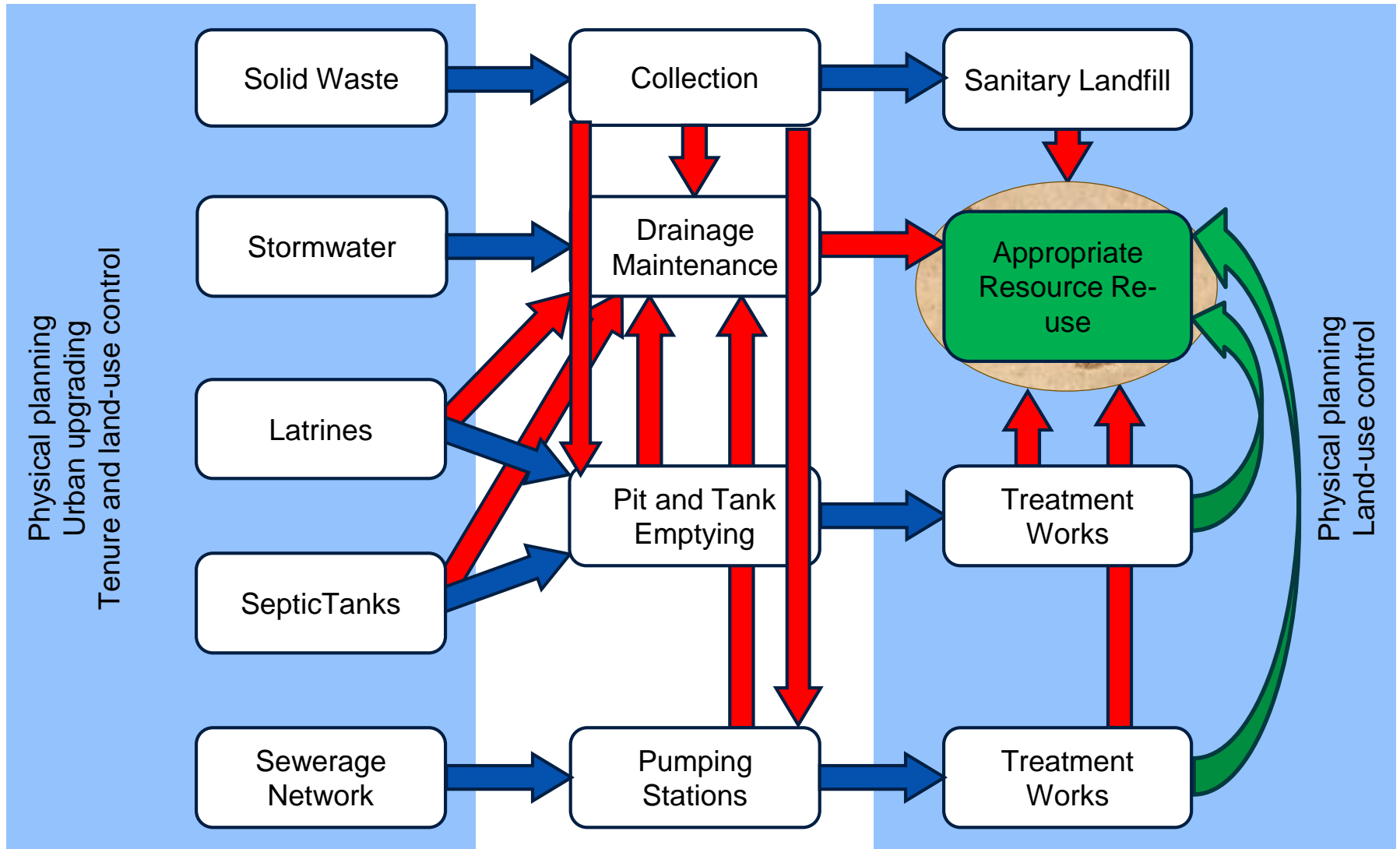
- In city, everything is interconnected
- Service providers can't keep up with population growth

Business as usual is not working

...We need to think differently



In a city, everything is interconnected... the need for integrated thinking



Citywide Inclusive Sanitation means that...



- **Everybody benefits** from adequate sanitation service delivery outcomes
- Human waste is **safely managed along the whole sanitation service chain**
- Effective **resource recovery and re-use** is considered
- A **diversity of technical solutions** is embraced, being **adaptive, mixed and incremental**
- **Comprehensive approaches** to sanitation improvements needed, with **planning, technical innovation, institutional reforms and financial mobilization**
- Cities will need to demonstrate **political will** and technical and managerial **leadership**, and to manage **new and creative ways of funding** sanitation
- Combines **both onsite sanitation and sewerage solutions**, in either **centralized or decentralized systems**, to better respond to realities faced in cities
- Needs to consider **complementary services: water supply, drainage, greywater, solid waste**

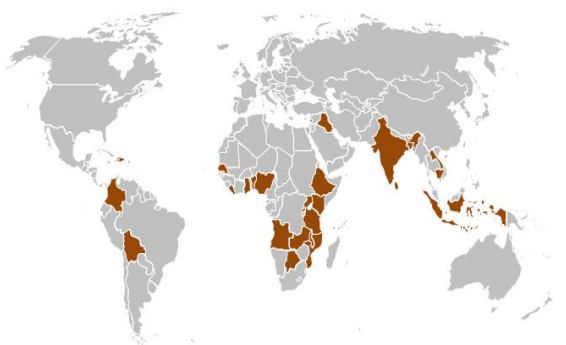
...so, we need to think differently...

'Business as Unusual'



The World Bank-Gates Foundation Urban Sanitation Innovation Partnership (USIP)

Tier 1	Tier 2	Tier 3
Bangladesh	Angola	Bahrain
Ethiopia	Botswana	Benin
Mozambique	Côte d'Ivoire	Bolivia
	DRC	Burundi
	India	Cambodia
	Indonesia	Colombia
	Kenya	Dominican Republic
	Liberia	eSwatini
	Malawi	Egypt
	Nigeria	Ghana
	Solomon Islands	Haiti
	Sri Lanka	Lao
	Tanzania	Lebanon
	Uruguay	Lesotho
	Yemen	Rwanda
	Zambia	Uganda



Operational Support

Resources, Tools, Reference Material, Support Documentation

Guidance Notes, Manuals, Capacity Building:

Shared and Public Sanitation =>

Fecal Sludge and Septage Treatment =>

Container Based Sanitation =>

Connecting the Unconnected

Generic ToRs:

Design of Fecal Sludge Management Projects and Components

Good Practice Documentation:

CWIS good practice videos =>

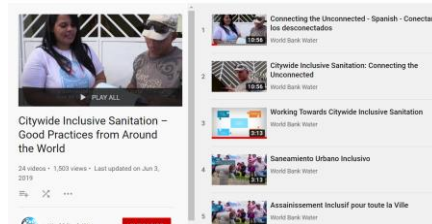
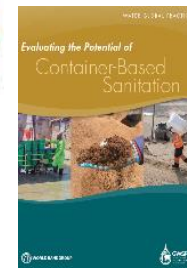
Health, Safety and Dignity of Sanitation Workers (with WaterAid, WHO, ILO)

Tools and eLearning:

CWIS Costing & Planning Tool...

Urban Sanitation MOOC with SANDEC...

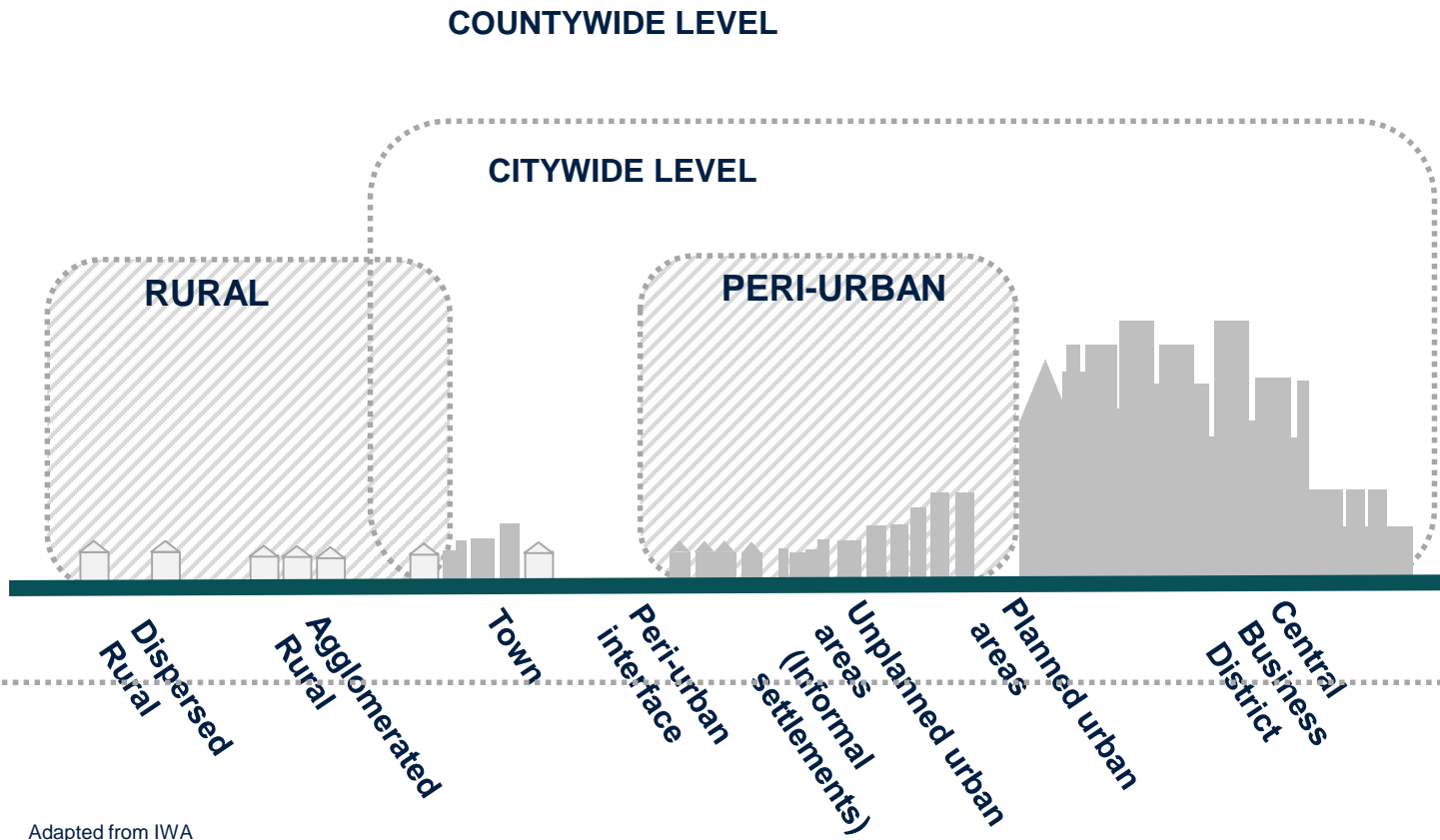
Strategic CWIS Knowledge & Learning Events



Experiences from Kenya

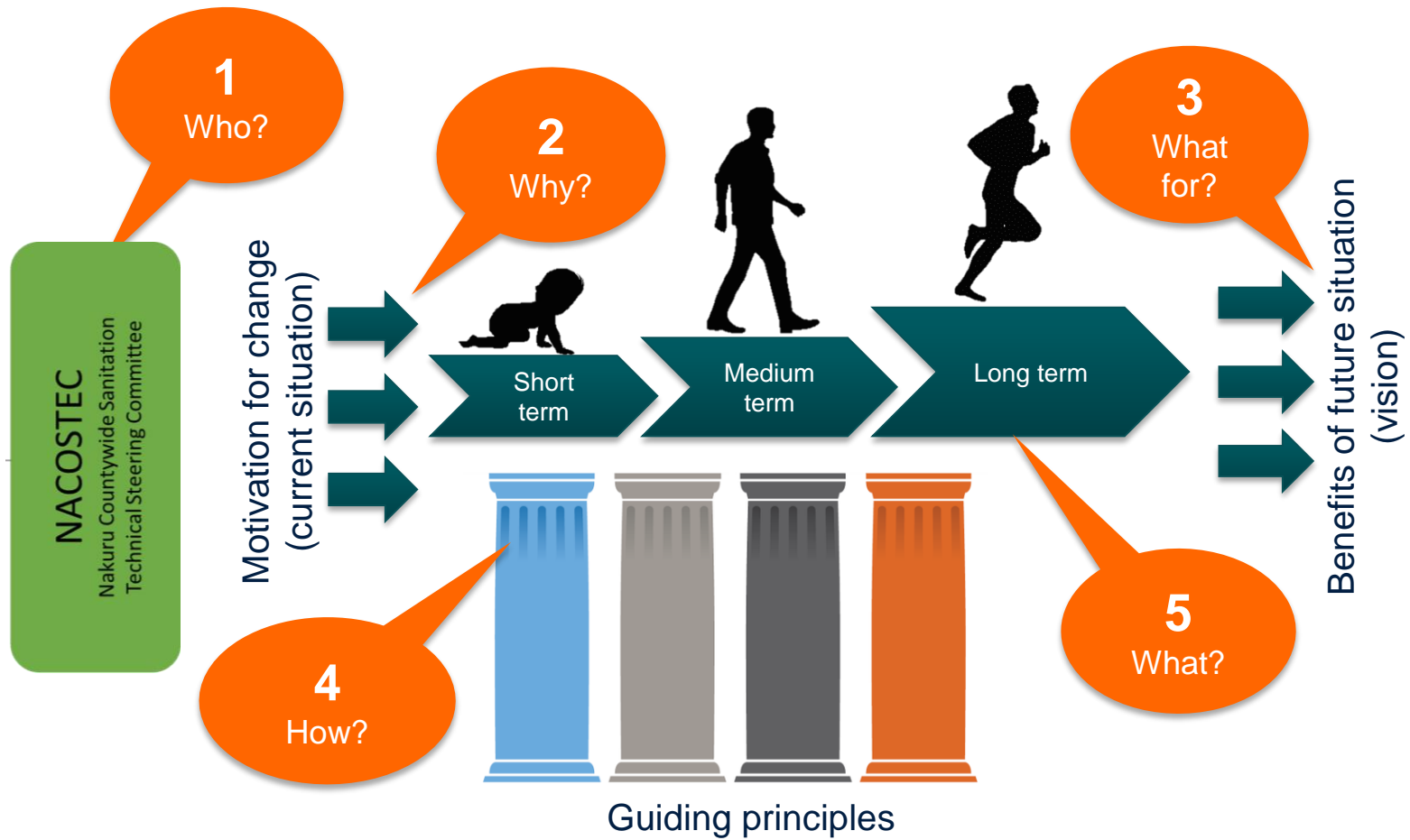
Nakuru Countywide Strategic Sanitation Planning Process

Countywide Inclusive Sanitation Approach



Adapted from IWA

Countywide Sanitation Planning in 5 Steps



STEP 1: FORMULATE YOUR MULTI_SECTORAL TEAM



Governor
Sanitation Champion

CECs Water and Health
Patrons

Chief Officers Water and Health
Advisors

NACOSTEC
Nakuru Countywide Sanitation
Technical Steering Committee

**NAIVASHA SUB-COUNTY
COMMITTEE**
(Report through NACOSTEC)

Nakuru County Sanitation Technical Steering Committee (NACOSTEC)—officially gazette and launched

Stakeholder Engagement and Communication Framework



Nakuru Countywide Inclusive Sanitation

Stakeholder Engagement Framework and Communication Strategy

November 26, 2018



STEP 2 – WHY?: UNDERSTAND YOUR CURRENT SITUATION



Jan-2019



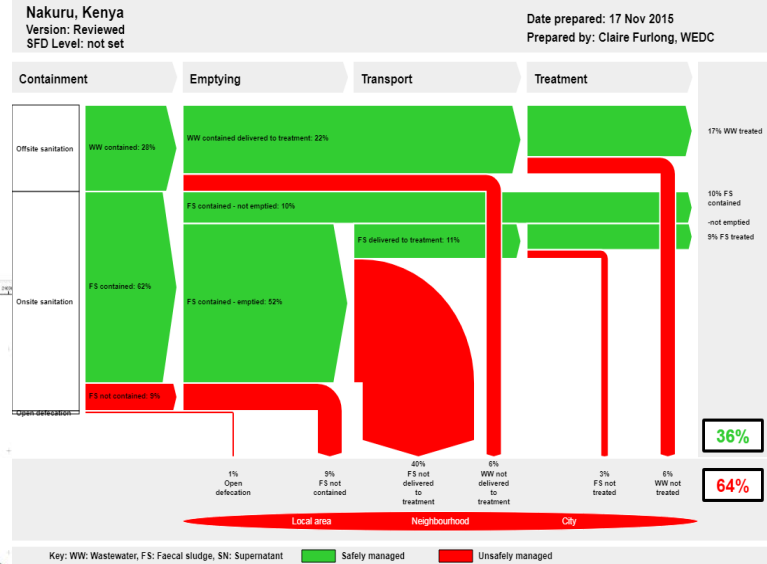
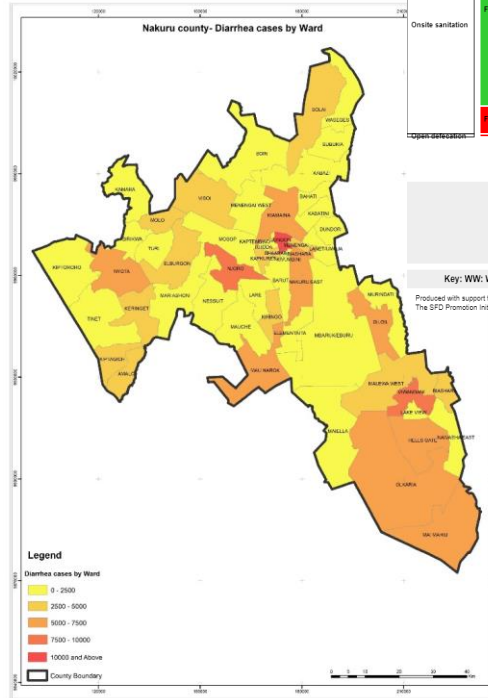
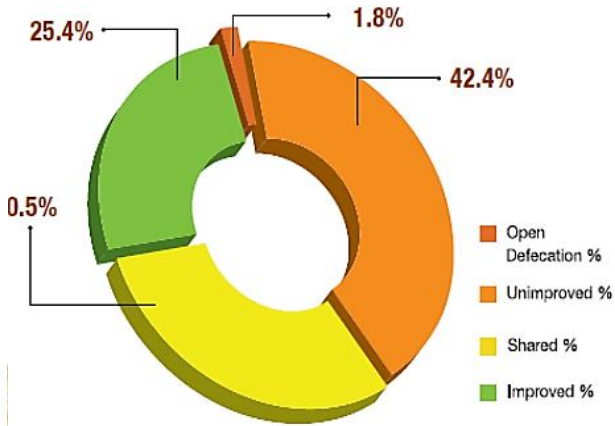
Nakuru Countywide Strategic Sanitation Plan

CONSOLIDATED - SITUATION ANALYSIS, NEEDS AND CONSTRAINTS
REPORT

WORLD BANK - WATER



UNDERSTAND YOUR CURRENT SITUATION



STEP 3 & 4 – WHAT FOR? HOW?: DEVELOP A SHARED STRATEGY

- ▶ Developed by NACOSTEC in workshops during the period May 22nd -25th, 2018



Nakuru Countywide Strategic Sanitation Plan

Countywide Inclusive Sanitation Strategy

January 5, 2019



Step 3: Develop a shared Vision

By the year 2030, we envision a County in which water resources are protected by full compliance with sanitation standards and policies.

Urban centres, informal settlements and villages alike are served with a combination of sanitation technologies (sewered and on-site) that include wastewater and sludge management, resource recovery and integrated solid waste management.

Through sanitation marketing, capacity building and political goodwill universal access to sanitation has been achieved, open defecation eliminated and waterborne diseases minimized.



Step 4: Guiding principles

- ▶ Governance, institutional and financial aspects
- ▶ Social inclusion and human rights
- ▶ Environmental aspects
- ▶ Technical aspects



STEP 5: PLAN YOUR INTERVENTIONS

THEME 1: Access to safe and sustainable rural water, sanitation and hygiene services

THEME 2: Access to safe and sustainable urban water, sanitation and hygiene services

- Scaling ODF Campaign
- Increasing access to safe sanitation and hygiene facilities
- Sanitation marketing and private sector participation
- Social mobilization, participation, education and behavior change communication
- Water supply and catchment/source and environment protection
- Integrated Waste management (waste to energy)
- Gender and social inclusion
- Institutional WASH
- Expansion of sewerage network and services (*only urban*)
- Faecal sludge management (*only urban*)
- **Piloting a condominial sewerage system**

STEP 5: PLAN YOUR INTERVENTIONS

THEME 3: Enabling environment - governance, institutional, policy and regulatory environment

- Policy, legal and regulatory environment
- Governance, institutional development and sector coordination
- Capacity building and training (Human Resources for Sanitation)
- Research and knowledge management

THEME 4: Planning and sustainable financing

- Integrated CWIS Planning
- Financing strategy

Pre v post CWIS Plan – Naivasha Water & Sanitation

	Pre	Post
Intervention plans	None	Detailed by priority



**SANITATION, EXCRETA,
AND WASTEWATER
MANAGEMENT**

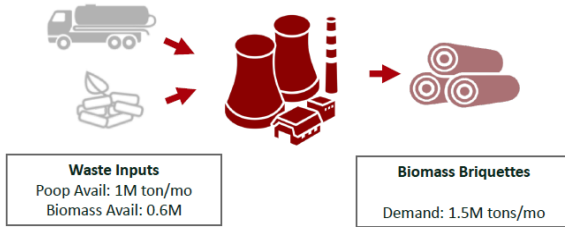
Short-Term Interventions:

- Increase Wastewater and Fecal Sludge Treatment Capacity - establish a new plant in Mai Mahiu and expand treatment capacity of the existing WWTP in Naivasha Town
- Promote and support septic tank construction
- Sanitation Marketing

Medium to Long-Term Interventions:

- Establish scheduled universal FSM

Integrated Solutions



Plant size for 80,000 people

Creates 50+ jobs | Revenue >\$1.5m | Saves >500K trees



Partners in Nakuru County

- ▶ Sanivation
- ▶ VEI
- ▶ WSUP
- ▶ BMGF
- ▶ USAID
- ▶ UNICEF
- ▶ UN-HABITAT
- ▶ Aqua for All