From MDG7 to SDG6 From basic needs to human rights ...

Drinking water and sanitation at the start of the 21st century

Robert Bos Senior Advisor International Water Association



inspiring change

Overview

- The MDG SDG transition
- SDG 6
- Targets and indicators
- The link to the human rights framework
- Affordability and cost-recovery
- What is in it for New Zealand?

PART 1 The 2030 Sustainable Development Agenda





17 Goals169 targets230 global indicators

https://unstats.un.org/sdgs/iaeg-sdgs/

3

MDG to SDG

MDGs 2000-2015

Goals of limited scope Technically defined targets For the developing world Globally monitored Developed by technocrats

Mostly adding an incremental improvement over what would anyway be achieved No human rights dimension

SDGs 2016-2030

Aspirational goals Comprehensive targets Covers all countries Shift from global to national monitoring Result of a participatory process

Universal coverage

Human rights dimension

SDG6 TARGETS

6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all

6.2 By 2030, achieve access to **adequate and equitable sanitation and hygiene** for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations

6.3 By 2030, improve **water quality** by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally

SDG6 TARGETS

6.4 By 2030, substantially increase **water-use efficiency** across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity

6.5 By 2030, implement **integrated water resources management** at all levels, including through transboundary cooperation as appropriate

6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

SDG6 TARGETS

6.a By 2030, **expand international cooperation and capacity-building support** to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies

6.b Support and strengthen the **participation of local communities** in improving water and sanitation management

The SDGs – how do they relate ...



... and what should be our perspective?



Making a positive contribution

How mining companies can contribute

to the Sustainable Development Goals

The mining and metals industry has extraordinary potential to contribute to the SDGs. Metals and minerals are an essential component in almost every aspect of our lives, they enable larming, healthcare, communications, water and energy supply, transport and construction. And domand a metasesing, Blogrand this, where working are sail of a broad alliance of people, governments and civil society, companies can directly deliver long term mutual benefits that secure the futures we want for present and future generations.

International Council on Mining and Metals

ICMM is an international organisation dedicated to improving the social and environmental performance of the mining and metals industry. Bringing together 20 mining and metals companies and 34 regional and commodifies associations, we serve as an agent for change: identifying common challenges and estibilishing a soft and more sustainable industry. Momenting of IDMM requires a commitment to aur 10 anniciples, a best-prectice transwork for sustainable development in the mining and metals industry. Our principles are strongly supportee of the global development agenda meaning that improvements in the performance of the mining and metals industry will make a positive contribution towards the universal objectives of the SDBs.



The perspective of the International Council on Mining and

Metals

ICMM 10 Principles

Established in May 2003 the principles respond to the key challenges identified by the Mining, Minerals and Sustainable Development Project's agenda for change. We expect all member companies to implement the principles in full and to transparently report on performance. Our principles define member commitments in the following areas:





SDG global targets and indicators

WASH SECTOR GOAL	SDG GLOBAL TARGET		SDG GLOBAL INDICATOR		
Ending open defecation	6.2	By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation , paying special attention to the needs of women and girls and those in vulnerable situations	6.2.1	Population practising open defecation	SDG 6.2.1
Achieving universal access to basic services	1.4	By 2030, ensure all men and women, in particular the poor and vulnerable, have equal rights to economic resources, as well as access to basic services	1.4.1	Population living in households with access to basic services (including basic drinking water , sanitation and hygiene)	SDG 1.4.1
Progress towards safely managed services	6.1	By 2030, achieve universal and equitable access to safe and affordable drinking water for all	6.1.1	Population using safely managed drinking water services	SDG 6.1.1
	6.2	By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations	6.2.1	Population using safely managed sanitation services	
			6.2.1	Population with a basic handwashing facility with soap and water available on premises	SDG 6.2.1

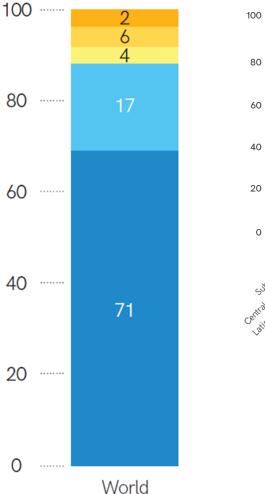
New JMP ladder for drinking water

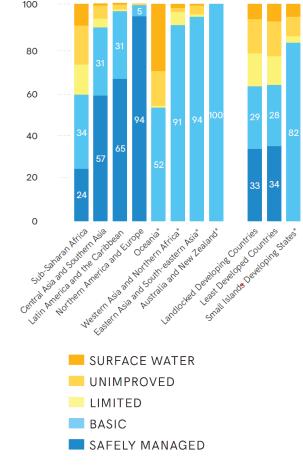
SDG 6.1.1	Safely managed	Drinking water from an improved source which is located on premises, available when needed and free of faecal and priority chemical contamination			
SDG 1.4.1 ⋔ ¥ ⋔ ⋪⋔	Basic	Drinking water form an improved source provided collection time is not more than 30 minutes for a roundtrip including queuing	BASIC SERVICE	FREE FROM CONTAMINATIO	Ν
	Limited	Drinking water from an improved source where collection time exceeds 30 minutes for a roundtrip including queuing	AVAILABLE	SAFELY MANAGED SERVICE	ACCESSIBLE
	Unimproved Drinking water from an unprotected dug well or unprotected spring		WHEN NEEDED		ON PREMISES
	Surface water	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation channel			

New estimates for drinking water (2000-2015)

In 2015

- 5.2 billion used a safely managed drinking water service
- Safely managed estimates available for 96 countries (4 out of 8 regions)
- 6.5 billion people used at least a basic service
- 844 million still lacked basic services
- 263 million used a limited service
- 159 million still used surface water sources



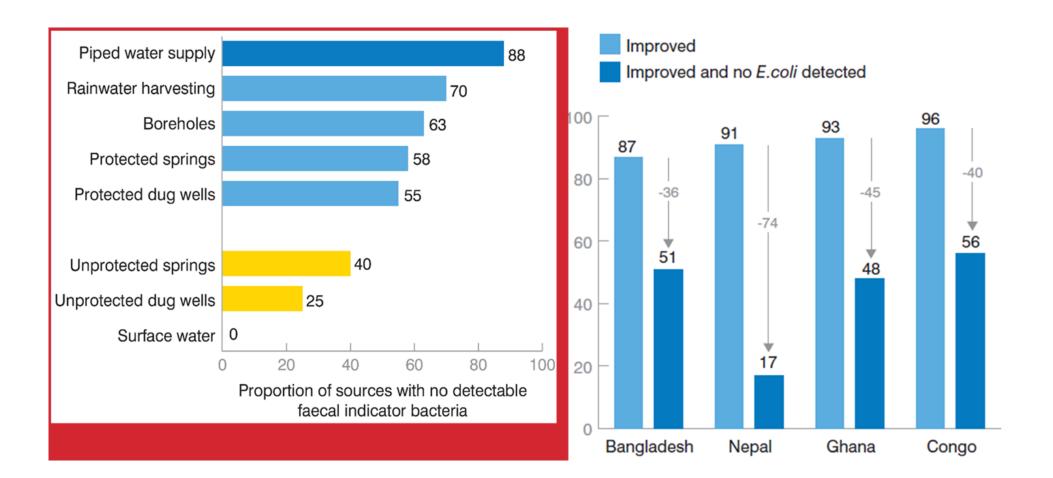


Accessibility

On premises Less than 30 mil	nutes 30 minutes Caucasus and Central Asia	to an hour Over an h Easte	ern Northern	r Southern Asia	Side-Sabaran Africa
and the Caribbean		Developed countries Asis		r Southern Asia	

FIGURE (14) Time taken per trip to collect drinking water, by country (minutes)

Quality



Water quality testing in hh surveys

Bangladesh global MICS5 pilot 2012

Water quality module has now been tested and validated, included in 12 countries to-date with more planned for 2017

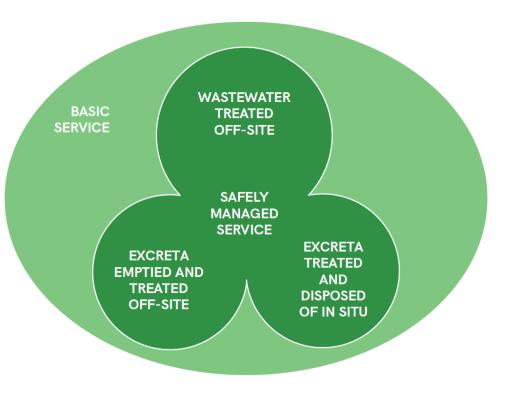
Congo (MICS)	Lebanon (MICS)	+ Togo (MICS)		
Cote d'Ivoire	Nepal (MICS)	+ DRC (MICS)		
(MICS)	Pakistan (MICS)	+ CAR (MICS)		
Ethiopia (ESS)	Paraguay (MICS)	+ Lao PDR (MICS)		
Ghana (LSS)	Mongolia (MICS)	+ Afghanistan (ALCS		
Nigeria (MICS)	+ Sierra Leone	+ Philippines (APIS)		
Bangladesh (MICS)	(MICS)	+ Vietnam (LSMS)		
Ecuador (ENEMDU)	+ DPRK (MICS)	+ Senegal		
		+ Cambodia		
Belize field test 2016				

Belize field test 2016

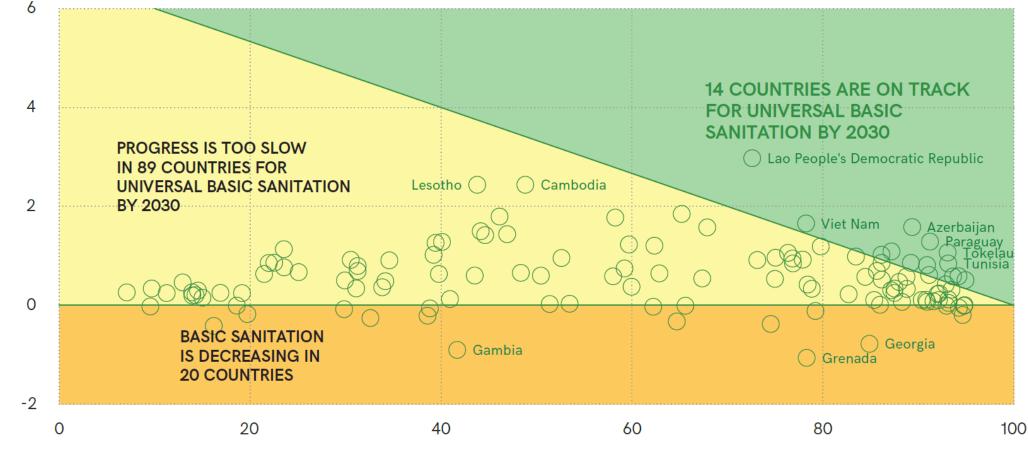


New JMP ladder for sanitation

SDG 6.2.1	Safely managed	Use of improved facilities which are not shared with other households and where excreta are safely disposed in situ or transported and treated offsite
SDG 1.4.1	Basic	Use of improved facilities which are not shared with other households
	Limited	Use of improved facilities shared between two or more households
	Unimproved	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines
SDG 6.2.1	Open defecation	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches and other open spaces or with solid waste



Just 1 in 10 countries below 95% coverage is on track to achieve universal basic sanitation by 2030



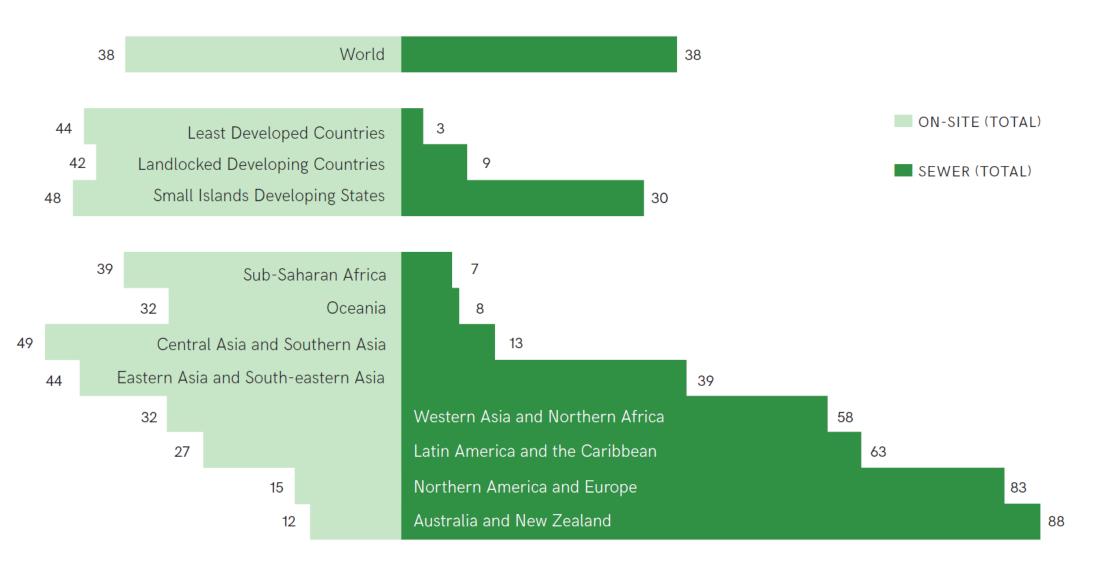
National population with basic sanitation services, 2015

Annual rate of change, 2000–2015 Percentage points per year

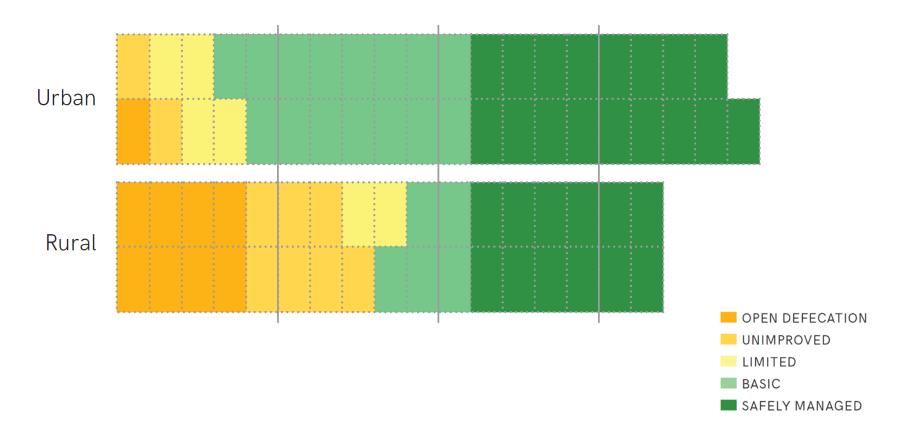
Emptying on site sanitation systems

WS12. Has your (answer from WS11) ever been	YES, EMPTIED
emptied?	WITHIN THE LAST 5 YEARS 1
	MORE THAN 5 YEARS AGO 2
	DON'T KNOW WHEN
	NO, NEVER EMPTIED 4
	DK
WS13. The last time it was emptied, where were the	REMOVED BY SERVICE PROVIDER
contents emptied to?	TO A TREATMENT PLANT 1
	BURIED IN A COVERED PIT2
Probe:	TO DON'T KNOW WHERE
Was it removed by a service provider?	
	EMPTIED BY HOUSEHOLD
	BURIED IN A COVERED PIT 4
	TO UNCOVERED PIT, OPEN GROUND,
	WATER BODY OR ELSEWHERE 5
	OTHER (specify)6
	DK

New disaggregations of on-site sanitation and sewer connections



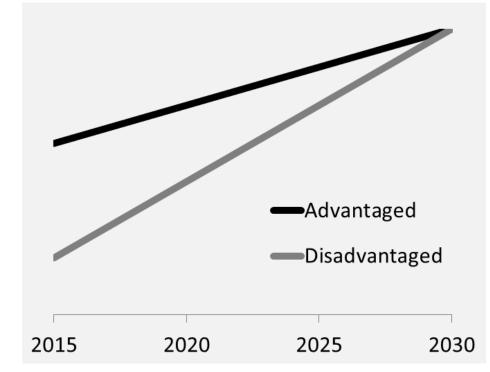
4.5 billion lack safely managed sanitation services



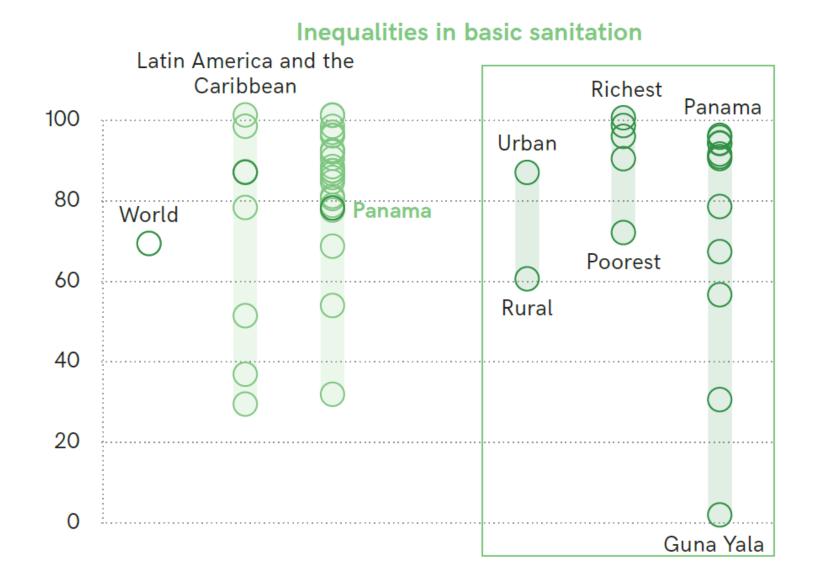
Number of people using different levels of service in rural and urban areas in 2015 (each unit represents 100 million people)

SDG targets 'leave no one behind'

- SDG indicators to be disaggregated where relevant
 - income,
 - age,
 - sex
 - race,
 - ethnicity,
 - migratory status,
 - disability and
 - geographic location,
 - or other characteristics



New disaggregations reveal sub-national inequalities



PART 2 AFFORDABILITY IN THE FRAMEWORK FOR THE HUMAN RIGHTS TO SAFE DRINKING WATER AND SANITATION





Photo credits: WaterAid

AFFORDABILITY IN THE FRAMEWORK FOR THE HUMAN RIGHTS TO SAFE DRINKING WATER AND SANITATION

The criteria for progressive realization:

- Accessibility
- Safety and quality
- Availability
- Acceptability
- Affordability

WHAT IS AFFORDABILITY?

... THE COST OF A PRODUCT OR SERVICE RELATIVE TO THE AMOUNT THE PURCHASER IS ABLE TO PAY AS PART OF TOTAL HOUSEHOLD INCOME ...

Unaffordable services lead to the use of unsafe sources of drinking water (Madagascar)

WHAT IS AFFORDABILITY?

IN DAILY LIFE: Can my household afford this expenditure on drinking water supply, or on sanitation services?

This is not the same as willingness-to-pay (WTP): WTP adds the concept of value for money.

WHAT IS AFFORDABILITY?

FROM A BASIC NEEDS PERSPECTIVE: Unaffordability means an infringement on the capacity to fulfill other basic needs

IN THE CONTEXT OF THE HUMAN RIGHTS FRAMEWORK: Unaffordability means one or more human rights cannot be enjoyed by individuals and progressive realization is hampered.

In dense (peri-)urban settings, the cost of connection households to drinking water supply services may be a key constraint on extending these services

ADDRESSING AFFORDABILITY CHALLENGES

Making connection costs more affordable:

- Subsidies for those who cannot afford a connection (such subsidies are better targetable than those supporting the costs of consumption).
- Payment of connections in affordable instalments (an example of this practice is found in Chile)
 - In areas where coverage is already substantial: cross subsidizing is a realistic option
 - Another option is to choose for cheaper technical solutions, but this may have O&M implications

ADDRESSING AFFORDABILITY CHALLENGES

Tariff setting is crucial in meeting the affordability criterion, but it is politically sensitive.

The human rights principles include the need for transparency and effective information exchange.

The decision making process for tariff setting needs to be assessed by an independent regulator with reference to affordability for all clients served, cost recovery and sustainable operations.

The dialogue between service providers and regulators must be guided by human rights principles



Kampala, Uganda: water kiosk paid for by mobile phone or by token.

ADDRESSING AFFORDABILITY CHALLENGES

Methods of payment for the poor or marginalized:

- No monthly payments
- Pay as you go (kiosks, e.g. 20L/day)
- Pre-paid cards
- Lifeline tariffs
- Maintain transaction costs low (both monetary and opportunity costs)

ADDRESSING AFFORDABILITY CHALLENGES

Non-payment, credit control, debt collection and cut-offs

The impact of non-payment on the capacity for O&M and on service extension represents an infringement on the progressive realization of the human rights to safe drinking water and sanitation

Service providers must apply reliable assessment methods to distinguish true problems related to affordability and unwillingness to pay

Due diligence has to be applied in the procedures to impose a cut-off in cases of unjustified non-compliance with payment obligations (where cut-off is legal)

The needs of handicapped and other vulnerable groups must be reflected in tariff setting and enhancement of affordability (Dhaka, Bangladesh)

What does the Special Rapporteur say? In brief:



- affordability is a matter of life and death
- sustainable access to safe drinking water cannot be a free service
- re-design of economic instruments will help reconcile economic and human rights perspectives
- at times of economic crises and austerity, tariffs need reconsideration
 - targeting households needing support in relation to affordability is challenging

What does the Special Rapporteur say? In brief:

- time = money consider opportunity costs
- look beyond tariffs when assessing cases of unability to pay



- cost-recovery must be based on lifecycle costs
- tackle the cost of corruption (bribes, kick backs, irregularities in tendering and procurement processes)
- consider the price of inaction
- consider the price of poor governance

What does the Special Rapporteur say? In brief:



- avoid promoting economic & environmental subsustainability at the expense of social sustainability
- take note of the fact that overly high costs for sanitation services will reduce rates of use, and lead to environmental damage and poor health, which represent hidden costs

What does the Special Rapporteur say? And on monitoring:



- monitoring affordability is not a straightforward process
- affordability is complex and difficult to measure:
 e.g. income levels are hard to assess
- measuring the impacts of poor affordability is challenging

Manual of the Human Rights to Safe Drinking Water and Sanitation for Practitioners

Lead Author: Robert Bos

Contributing Authors: David Alves, Carolina Latorre, Neil McCleod, Gérard Payen, Virginia Roaf & Michael Rouse

The Manual of the Human Rights to Safe Drinking Water and Sanitation for Practitioners aims:

- To introduce the principles and concepts contained in the United Nations resolutions recognizing the Human Right to Safe Drinking Water and Sanitation (HRWS)
- To clarify the language and terminology used in the promotion of human rights, and
- To provide guidance on the roles and responsibilities for everyone who contributes to the
 progressive realization of the HRWS, and on how the human rights principles and actions
 can be incorporated into their essential functions.

The Manual highlights the human rights principles and criteria in relation to drinking water and sanitation. It explains the international legal obligations in terms of operational policies and practice that will support the progressive realisation of universal access.

The Manual introduces a human rights perspective that will add value to informed decision making in the daily routine of operators, managers and regulators. It also encourages its readership to engage actively in national dialogues where the human rights to safe drinking water and sanitation are translated into national and local policies, laws and regulations. Creating such an enabling environment is, in fact, only the first step in the process towards progressive realisation. Allocation of roles and responsibilities is the next step, in an updated institutional and operational set up that helps apply a human rights lens to the process of reviewing and revising the essential functions of operators, service providers and regulators.

8.50 x 11.00 280 mm x 216 mm



ISBN: 9781780407449 (eBook)

ISBN 978-1-78040-743-0000 9 781780'407432'

122

.249 6.324mm



Manual of the Human Rights to Safe Drinking Water and Sanitation for Practitioners

Lead Author: Robert Bos Contributing Authors: David Alves, Carolina Latorre, Neil McCleod, Gérard Payen, Virginia Roaf & Michael Rouse



8.50 x 11.00 280 mm x 216 mm

Thanks to friends and colleagues at WHO and UNICEF (Rick Johnston, Tom Slaymaker) and at IWA

(Carolina Latorre and Diana Guio)