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DE SANEAMIENTO

BOLIVIA 2022

SaneamientoUn
LlamadoALaAcción



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FORMACIÓN ACADÉMICA:

Civil Engineer (ESTG – Portugal)

MBA in Energy and Sustainability (University of Cumbria – UK)

EXPERENCIA LABORAL:

Joined the JMP team within UNICEF as a Statistics & Monitoring Specialist (WASH) in May 2021. Previously worked for UNICEF in Lebanon leading the Humanitarian WASH programme since 2015. More than two decades of experience in water and sanitation initiatives, including ten years in humanitarian and development contexts such as Haiti, Myanmar, Lebanon and Mozambique.





Addressing SDG WASH data gaps in LAC



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Household updates in odd years



Schools and Health Care Facilities updates in even years



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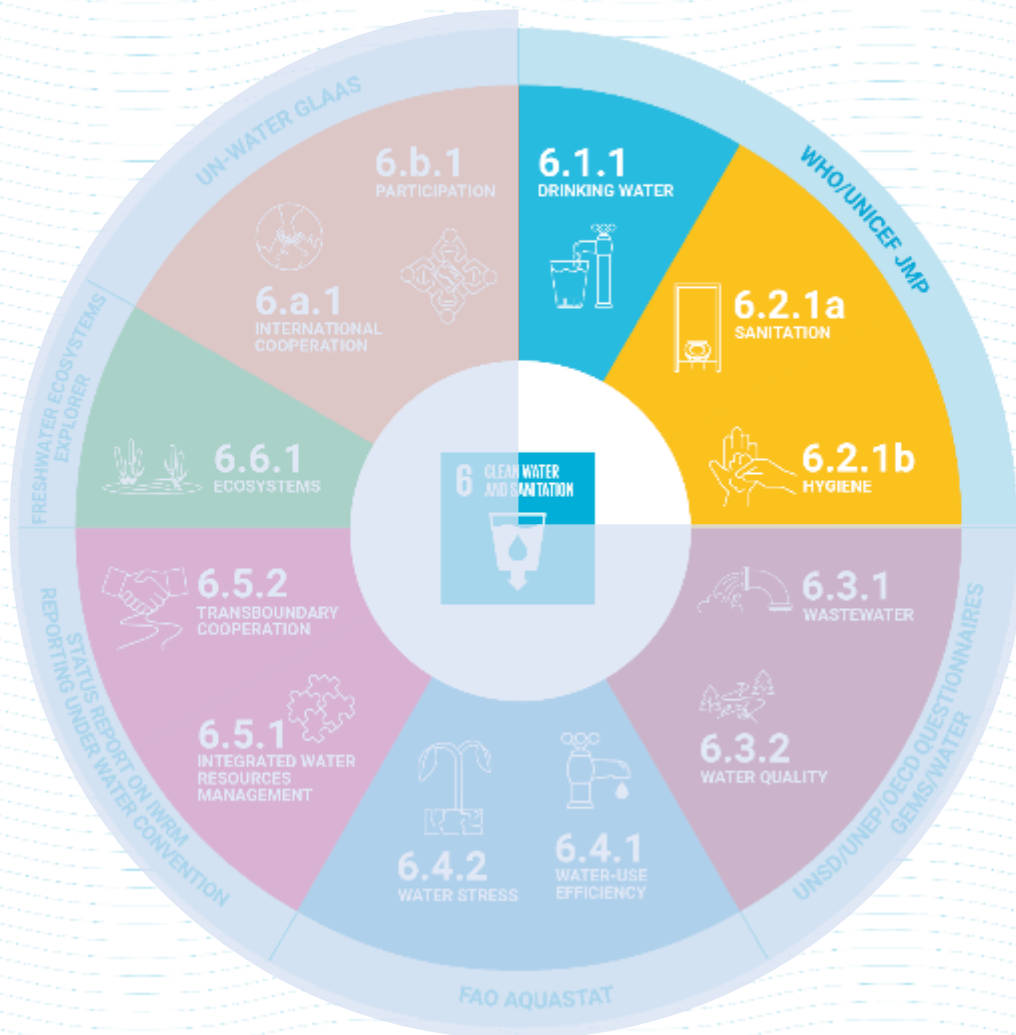
WHO/UNICEF JMP

<https://washdata.org>



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UN Water Integrated Monitoring Initiative for SDG 6



INDICATORS	CUSTODIANS
6.1.1 Proportion of population using safely managed drinking water services	WHO, UNICEF
6.2.1 Proportion of population using (a) safely managed sanitation services and (b) a hand-washing facility with soap and water	WHO, UNICEF
6.3.1 Proportion of domestic and industrial wastewater flows safely treated	WHO, UN-Habitat, UNSD
6.3.2 Proportion of bodies of water with good ambient water quality	UNEP
6.4.1 Change in water-use efficiency over time	FAO
6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources	FAO
6.5.1 Degree of integrated water resources management	UNEP
6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation	UNECE, UNESCO
6.6.1 Change in the extent of water-related ecosystems over time	UNEP, Ramsar
6.a.1 Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan	WHO, OECD
6.b.1 Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management	WHO, OECD

JMP service ladders for WASH in households

DRINKING WATER

Safely managed: Drinking water from an improved source that is accessible on premises, available when needed and free from faecal and priority chemical contamination

Basic service: Drinking water from an improved source, provided collection time is not more than 30 minutes for a round trip, including queuing

Limited service: Drinking water from an improved source, for which collection time exceeds 30 minutes for a round trip, including queuing

Unimproved: Drinking water from an unprotected dug well or unprotected spring

Surface water: Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal

SANITATION

Safely managed: Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or removed and treated offsite

Basic service: Use of improved facilities that are not shared with other households

Limited service: Use of improved facilities that are shared with other households

Unimproved: Use of pit latrines without a slab or platform, hanging latrines or bucket latrines

Open defecation: Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open places, or with solid waste

HYGIENE

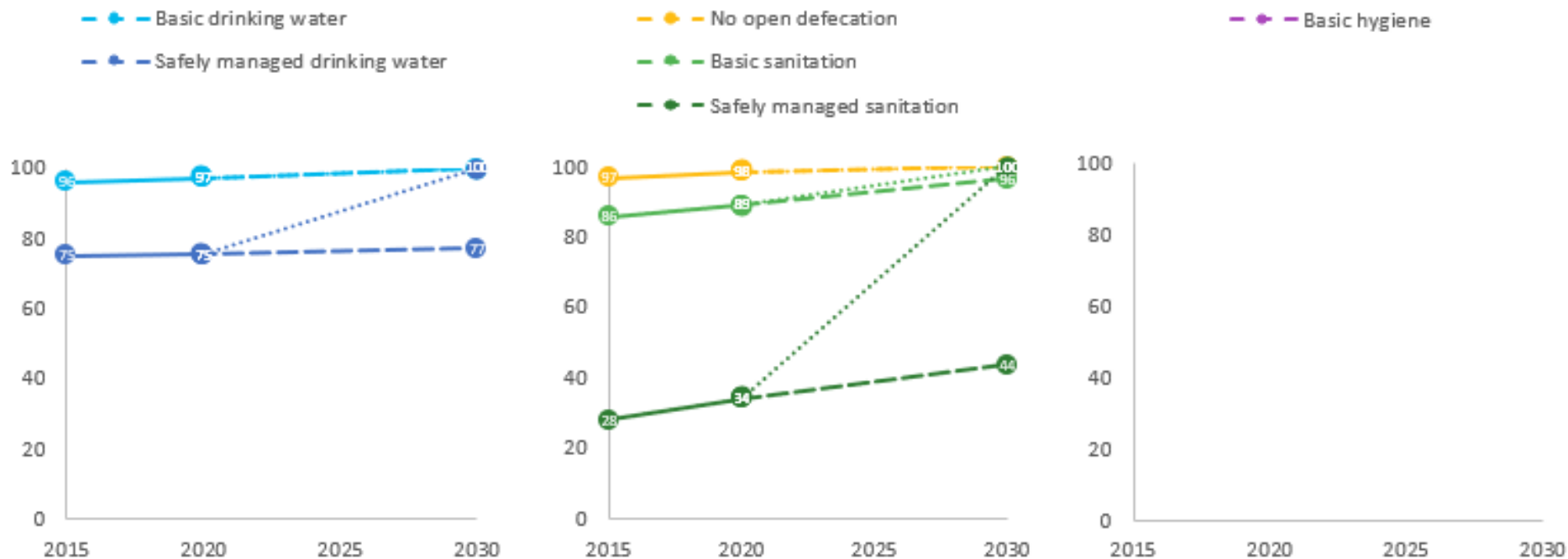
Basic service: Availability of handwashing facility with soap and water at home

Limited service: Availability of handwashing facility lacking soap and/or water at home

No facility: No handwashing facility at home

Achieving SDG WASH targets in LAC will require a dramatic acceleration in current rates of progress

Latin America and the Caribbean



Thumbnail of snapshot here

Figure WASH1b: Regional coverage of WASH services, 2015-2020 (%), and acceleration required to meet targets by 2030

Source: WHO/UNICEF JMP (2021)



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Data availability is improving but large gaps remain for monitoring SDG targets for sanitation and hygiene

% of population (# of countries, areas and territories) covered by available data in 2020	Drinking water					Sanitation						Hygiene
	Basic water	Safely managed	Accessible on premises	Available when needed	Free from contamination	Open defecation	Basic sanitation	Safely managed	Safely disposed in situ	Emptied and treated	Wastewater treated	Basic hygiene
World (234)	99% (211)	45% (138)	99% (210)	82% (121)	45% (138)	97% (198)	99% (202)	81% (120)	66% (67)	1% (7)	52% (97)	50% (79)
Rural	98% (164)	55% (65)	98% (163)	86% (91)	55% (65)	97% (159)	98% (161)	73% (77)	70% (58)	0% (1)	8% (5)	67% (78)
Urban	93% (175)	56% (87)	93% (173)	75% (108)	56% (87)	94% (172)	94% (172)	75% (98)	62% (51)	0% (1)	48% (28)	37% (76)
Latin America and the Caribbean (50)	93% (36)	77% (18)	93% (36)	91% (24)	77% (18)	93% (34)	93% (35)	82% (14)	13% (5)	0% (0)	86% (15)	19% (10)
Rural	93% (24)	56% (10)	93% (24)	79% (16)	56% (10)	93% (24)	93% (24)	14% (6)	18% (6)	0% (0)	0% (0)	32% (11)
Urban	94% (27)	59% (14)	94% (27)	86% (21)	59% (14)	94% (27)	94% (27)	87% (14)	11% (5)	0% (0)	23% (6)	18% (10)

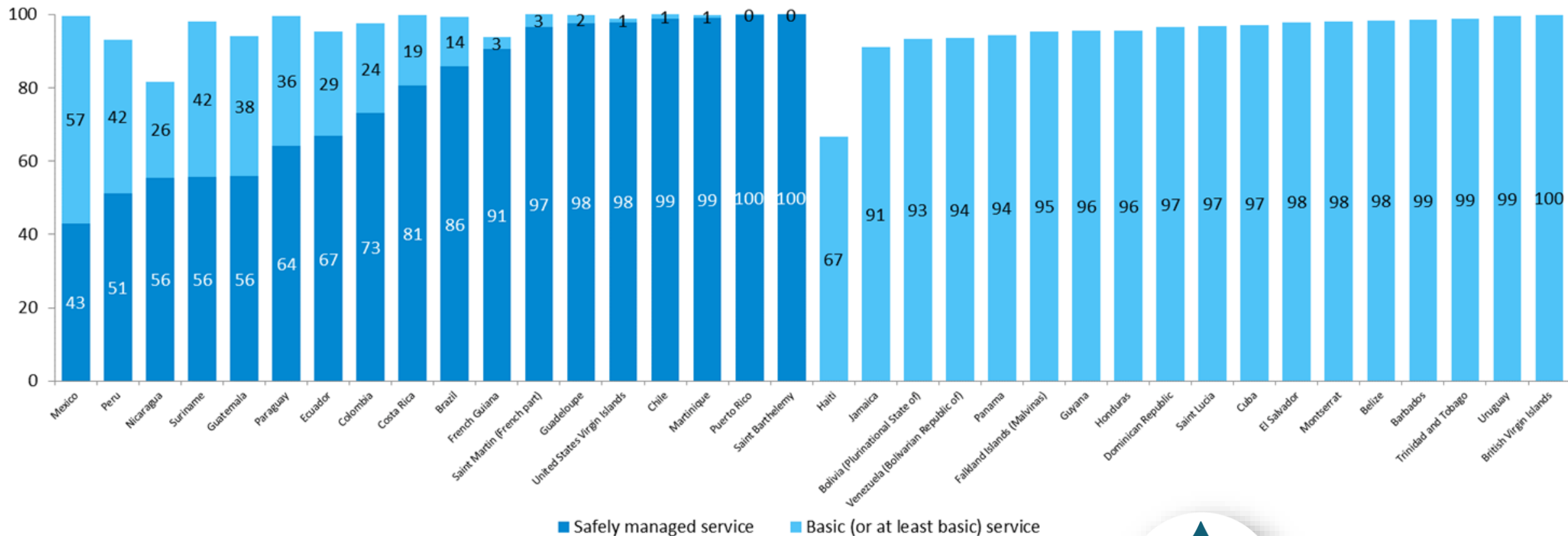
Notes:

1. Proportion of the relevant population for which data are available.
2. Cases where the population coverage is less than 50% are highlighted in yellow.

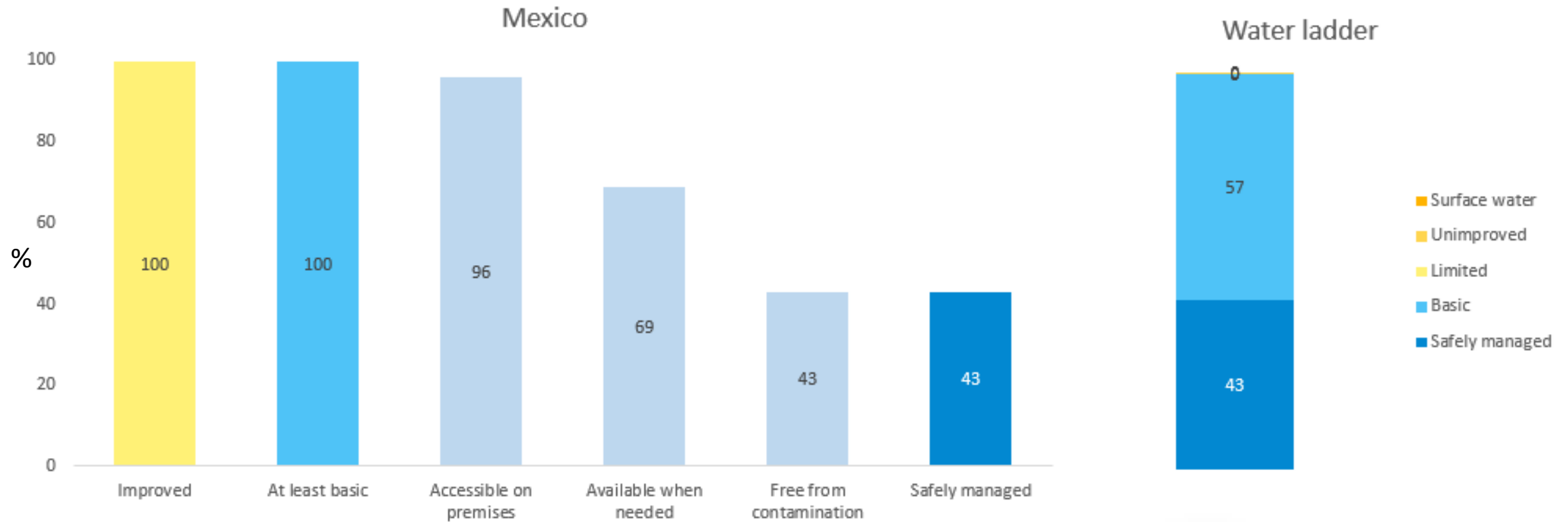


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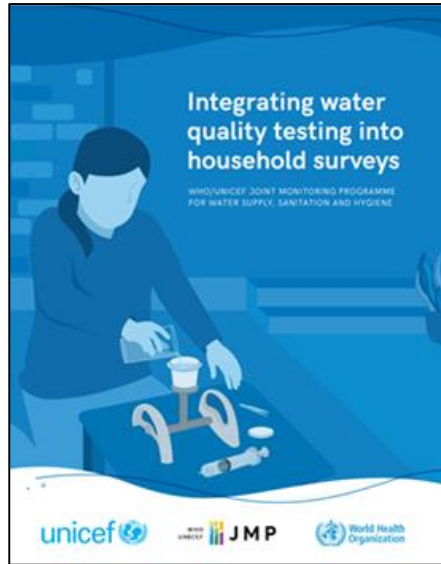
Only 18 countries in LAC had national estimates for safely managed drinking water services in 2020



Calculation of SDG 6.1.1 safely managed drinking water services



Water quality testing in household surveys



- 2012-2013**
 - Bangladesh MICS
 - Ghana LSS
- 2014-15**
 - Congo MICS
 - Côte d'Ivoire MICS
 - Nepal MICS
 - Pakistan MICS (Sindh)
- 2016-17**
 - Afghanistan ALCS
 - DPRK MICS
 - DRC MICS
 - Ecuador ENEDMU
 - Ethiopia ESS
 - Ghana MICS
 - Lebanon National Survey
 - Mongolia MICS
 - Nigeria MICS
 - Paraguay MICS
 - Philippines APIS
 - Senegal
 - Sierra Leone MICS
- 2018-2019**
 - Algeria MICS
 - CAR MICS
 - Chad MICS
 - Gambia MICS
 - Georgia MICS
 - Guinea-Bissau MICS
 - Iraq MICS
 - Kiribati MICS
 - Lao PDR SIS
 - Lesotho MICS
 - Madagascar MICS
 - Mongolia MICS
 - Suriname MICS
 - Togo MICS
 - Tunisia MICS
- 2020-2021**
 - Dominican Republic MICS
 - Guyana MICS
 - Jamaica MICS
 - Kosovo MICS
 - Malawi MICS
 - Mauritania MICS
 - Pacific Island Countries MICS
 - Sao Tome and Principe MICS
 - Tanzania LSMS
 - Trinidad and Tobago MICS
 - Turks and Caicos MICS
 - Viet Nam LSMS
 - West Bank and Gaza Strip MICS



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Water quality testing in household surveys



Water quality testing in household surveys

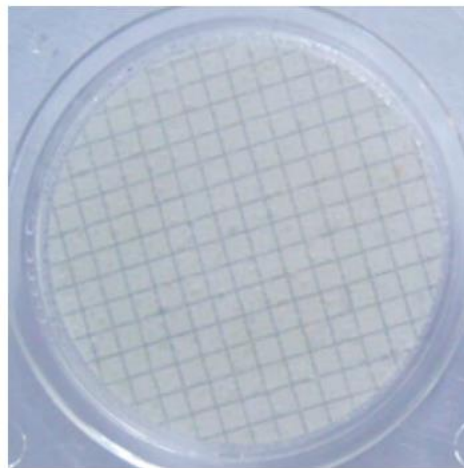
In most countries a « body-belt » is used to incubate the samples.

Other incubation options are available:

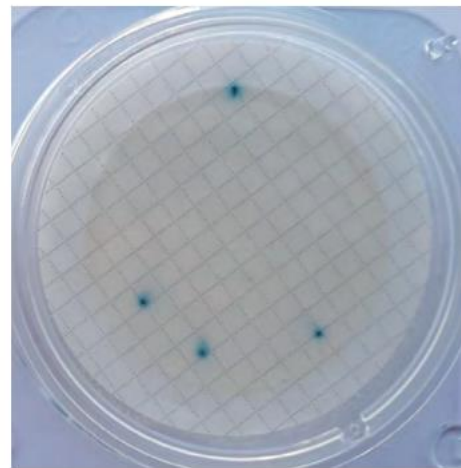
- Electric incubators
- Phase-change incubator
- Incubation 'vests'

WHO risk levels for faecal contamination of drinking water

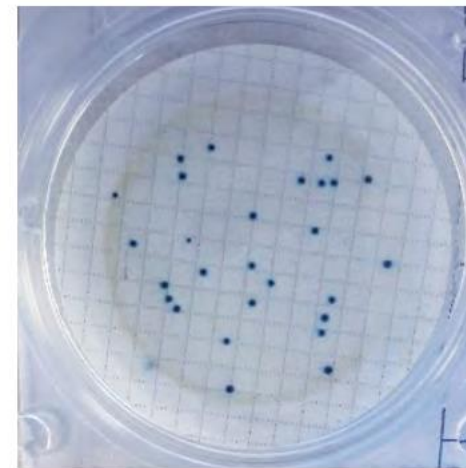
<i>E. coli</i> per 100 mL of water	WHO risk level
<1	LOW RISK
1-10	MEDIUM RISK
11-100	HIGH RISK
>100	VERY HIGH RISK



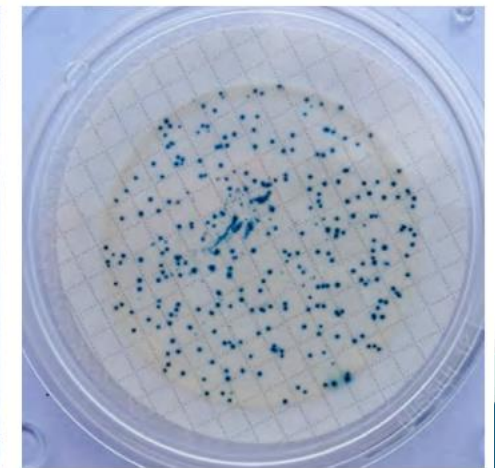
LOW RISK
(no *E.coli* detected)



MEDIUM RISK

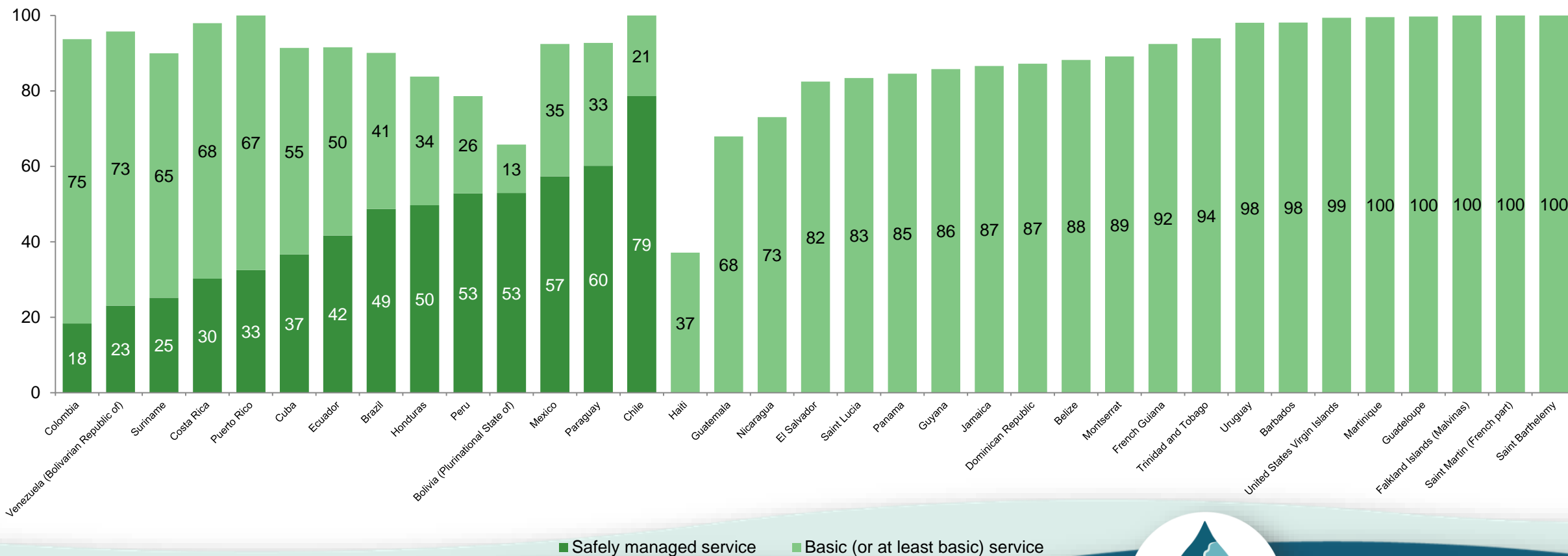


HIGH RISK



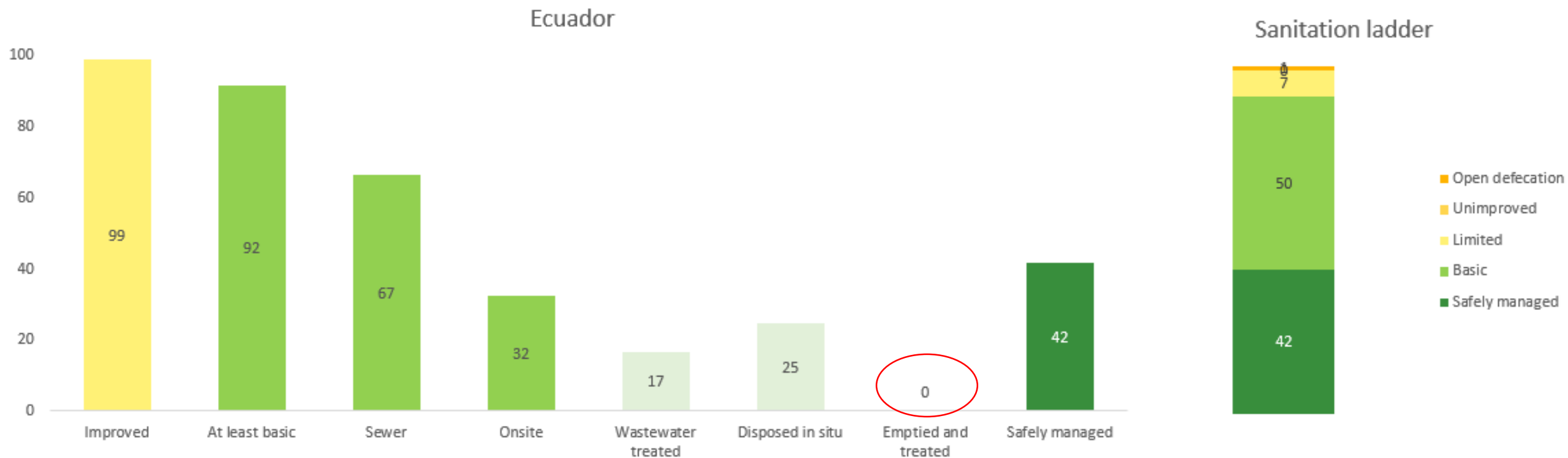
VERY HIGH RISK

Only 14 countries in LAC had national estimates for safely managed sanitation services in 2020



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Calculation of SDG 6.2.1a safely managed sanitation services



Monitoring safe management of on-site sanitation (SMOSS)

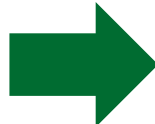


SERVICE LEVEL	DEFINITION
SAFELY MANAGED	Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or transported and treated offsite
BASIC	Use of improved facilities that are not shared with other households
LIMITED	Use of improved facilities shared between two or more households
UNIMPROVED	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines
OPEN DEFECATION	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open spaces, or with solid waste

Note: improved facilities include flush/pour flush to piped sewer systems, septic tanks or pit latrines; ventilated improved pit latrines, composting toilets or pit latrines with slabs.

?

Various data gaps:
national, urban/rural,
emptying/treatment



✓

Already good data coverage.
Same methods as previous reporting

Pilot objectives

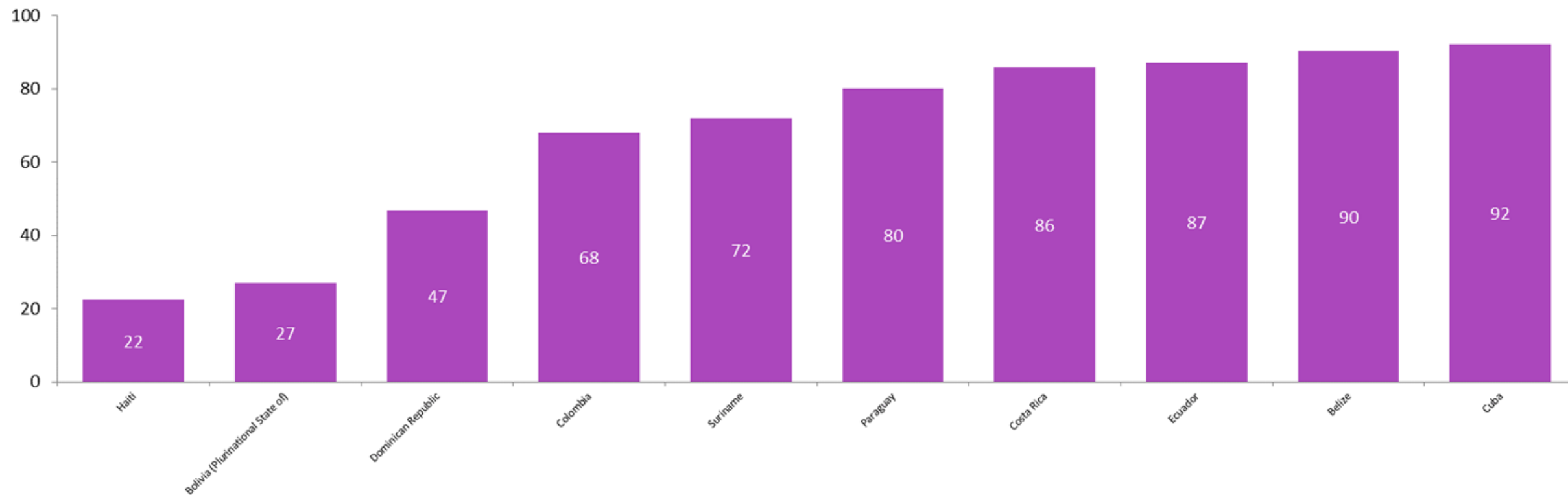
- i. Develop tools to assess the nature and scale of the challenges associated with SMOSS
- ii. Make recommendations for routine monitoring of SMOSS in future

Outputs

- ✓ Recommendations for national data collection – existing and new tools, who & how to collect
- ✓ Inputs to clarify JMP assumptions and improve country estimates



Only 10 countries in LAC had national estimates for basic hygiene services in 2020



Disaggregated data are required to analyse inequalities between and within countries in LAC



JMP country files

	Household	School	Health Care Facilities
World	World file	World file	World file
Regions	Regions file	Regions file	Regions file
[+] Australia and New Zealand (2)			
[+] Central and Southern Asia (14)			
[+] Eastern and South-Eastern Asia (18)			
[+] Oceania (21)			
[+] Northern Africa and Western Asia (25)			
[-] Latin America and the Caribbean (48)			
Anguilla	Country file	Country file	Country file
Antigua and Barbuda	Country file	Country file	Country file
Argentina	Country file	Country file	
Aruba	Country file		
Bahamas	Country file		
Barbados	Country file	Country file	Country file
Belize	Country file	Country file	Country file
Bolivia (Plurinational State of)	Country file	Country file	Country file
	Inequalities		

World Health Organization WHO UNICEF JMP unicef

Joint Monitoring Programme for Water Supply, Sanitation and Hygiene

Estimates on the use of water, sanitation and hygiene in
Bolivia (Plurinational State of)

Updated July 2021

Follow the links below to find the following information:

JMP Estimates:

- [Water, sanitation and hygiene ladders](#)
- [Safely managed services](#)
- [Trends in basic water, sanitation and hygiene Estimates \(2000-2020\)](#)

Data inputs:

- [Data Summary](#)
- [Water Data](#)
- [Sanitation Data](#)
- [Wastewater Data](#)
- [Hygiene Data](#)
- [Menstrual Health Data](#)
- [Population](#)

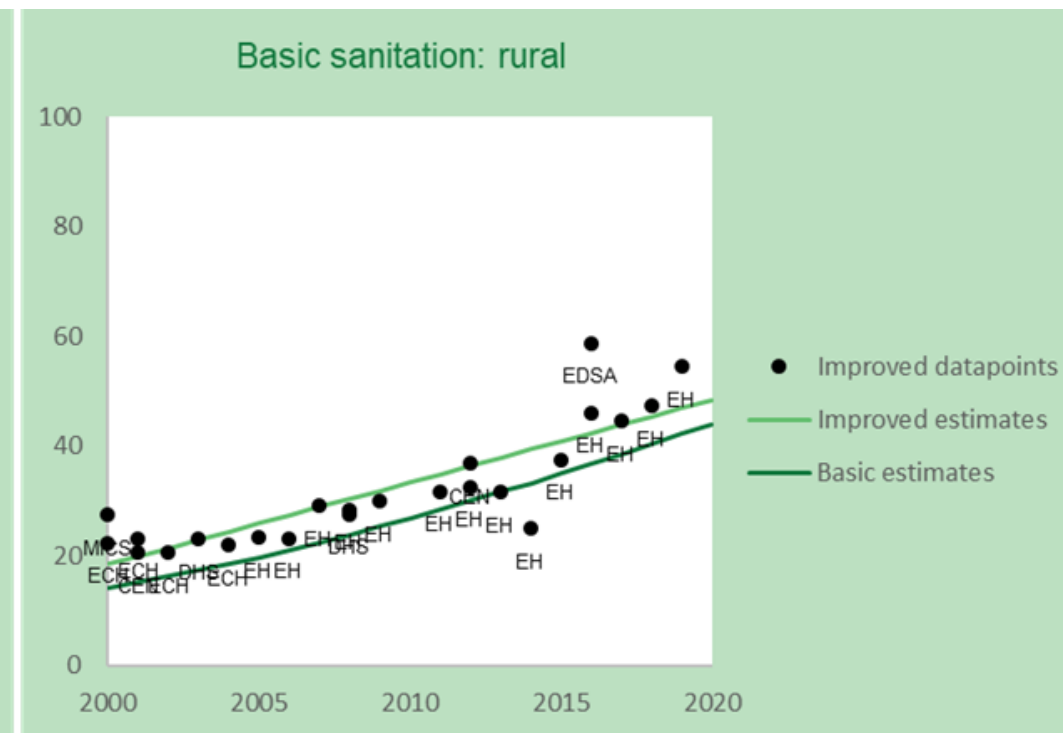
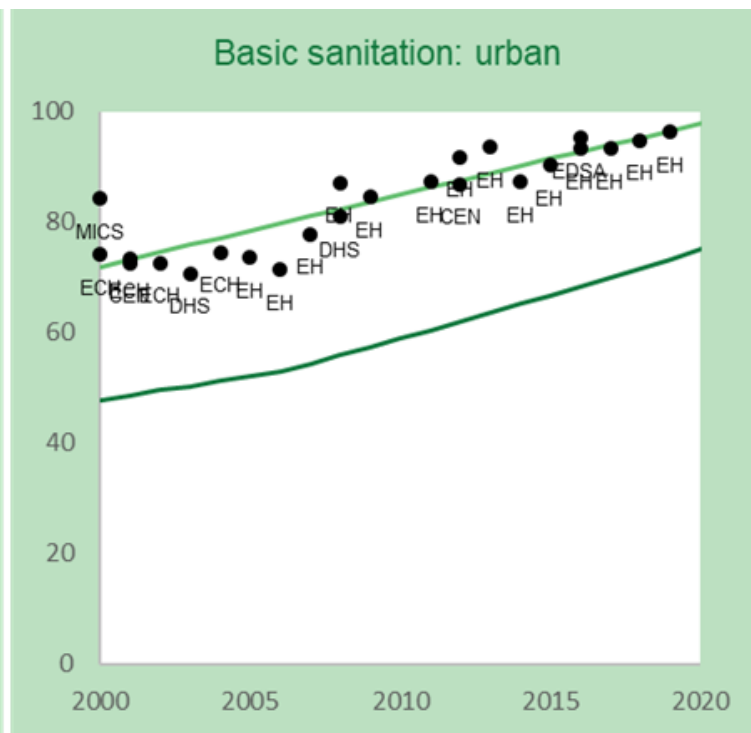
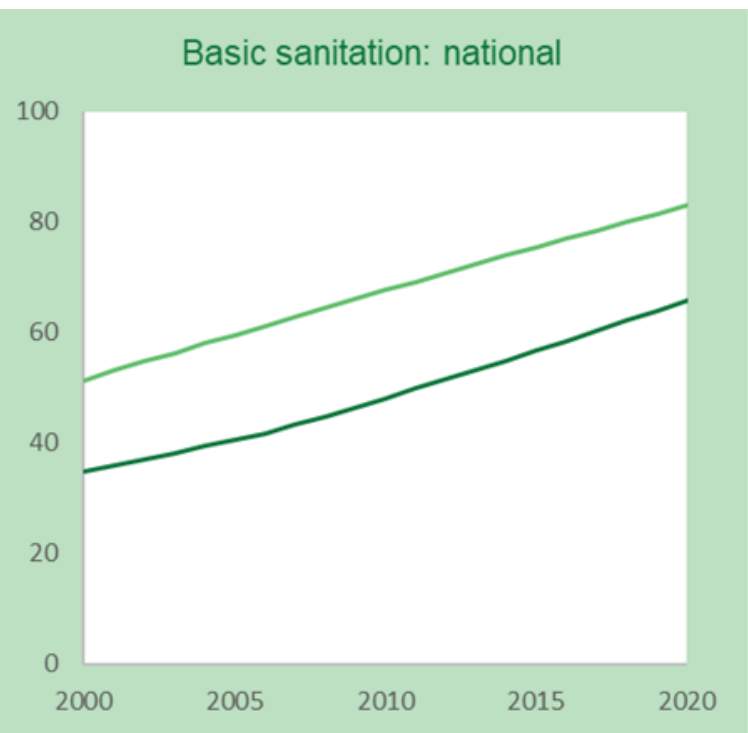
<https://washdata.org/data/download>

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JMP country files



JMP country files

Safely managed drinking water calculation

	National	Rural	Urban
Year:	2020	2020	2020
Proportion of population with improved:	94	80	99
Proportion of population with improved sources which are:			
Accessible on premises	86	62	96
Available when needed	-	-	80
Free from contamination	-	-	-
Safely managed	-	-	-

Notes: The indicator for SDG 6.1, safely managed drinking water services are defined as use of an improved drinking water source which is accessible on premises, available when needed and free from contamination. To make an estimate of safely managed services, information on the use of improved drinking water sources is combined with information on the accessibility, availability and quality of drinking water. Estimates are based on the minimum value of these criteria or, where estimates are available for both rural and urban, a population average of the two. The JMP reports estimates for safely managed drinking water provided information is available for at least 50 per cent of the population on quality of drinking water and either accessibility or availability.

Source: WHO/UNICEF JMP (2021)

Safely managed sanitation calculation

	National	Rural	Urban
Year:	2020	2020	2020
Proportion of population with improved:	83	48	98
Proportion of population with improved facilities (including shared) which are:			
Sewer connected	50	6	69
Septic tanks	13	9	15
Latrines and other	20	34	13
Proportion of population with improved facilities (excluding shared) which are:			
Disposed of in situ	10	-	8
Emptied and treated	9	-	7
Wastewater treated	33	5	45
Safely managed	53	-	60

Notes: The indicator for SDG 6.2, safely managed sanitation services are defined as use of an improved sanitation facility which is not shared with other households and where excreta are disposed in situ or transported and treated offsite. To make an estimate of safely managed services, information on use of different improved sanitation facilities types (sewer connections, septic tanks and latrines and other) is combined with information on containment, emptying, transport and treatment. The JMP reports estimates for safely managed sanitation when information on excreta management is available for at least 50 per cent of the population using the dominant type of improved sanitation facility (sewer connections or on-site sanitation facilities).

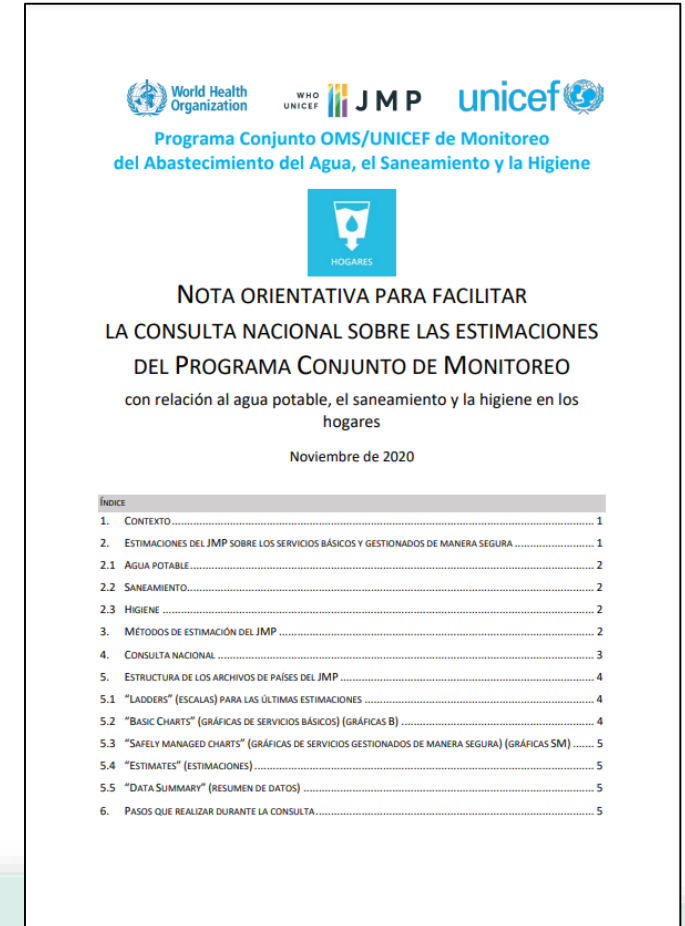


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JMP country consultations

- Guidance note to facilitate country consultation
 - English, French, Spanish, Russian & Arabic
- WHO/UNICEF country offices contact national authorities
 - NSOs, MoE, MoH, MoW, regulator, other
- Seek technical feedback on JMP country file
 - Is it missing any relevant national data sources?
 - Are the data sources used considered reliable?
 - Is the interpretation/classification of national data correct?
- Provide feedback to JMP team via info@washdata.org
 - Finalization of estimates in Feb/March
 - Publication of JMP progress updates in June/July 2023

<https://washdata.org/how-we-work/jmp-country-consultation>



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CONCLUSIONES Y RECOMENDACIONES

- The region has made progress but is not on track
- Data gaps and the forced use of old data for inputs necessary to JMP methodology have a direct impact on the regions estimates
- It is important to align Surveys and Censuses with the International definitions
- When data is available it is important to make it available (i.e. wastewater data)
- The JMP has developed resources to help close these data gaps (incorporating water quality in surveys, of site sanitation) however countries need to make a concerted effort to address waterwater treatment



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JMP core questions



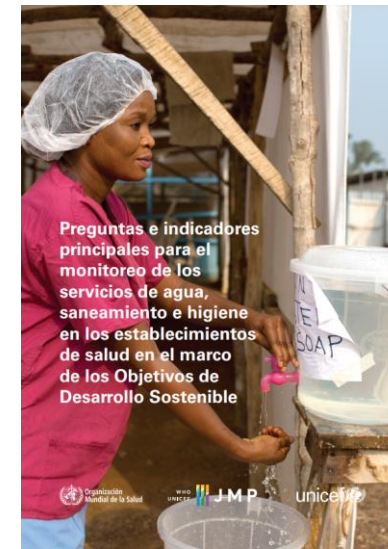
JMP 2018 Core Questions for Household Surveys

- English 1.73 MB
- Français 2.23 MB
- Español 1.36 MB
- Русский 1.84 MB
- العربية 1.09 MB



Core questions and indicators for monitoring WASH in Schools in the Sustainable Development Goals

- English 1,000.42 KB
- Français 2.56 MB
- Español 1.47 MB
- Русский 1.92 MB
- العربية 751.66 KB



Core questions and indicators for monitoring WASH in Health Care Facilities in the Sustainable Development Goals

- English 1.82 MB
- Français 869.48 KB
- Español 8.62 MB
- Русский 780.36 KB
- العربية 918.57 KB



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