PROGRESS ON HOUSEHOLD DRINKING WATER, SANITATION AND HYGIENE

# 2000-2020 FIVE YEARS INTO THE SDGs

WHO/UNICEF JOINT MONITORING PROGRAMME FOR WATER SUPPLY, SANITATION AND HYGIENE

WHO UNICEF JMP

unicef

World Health Organization

### Progress on household drinking water, sanitation and hygiene 2000-2020: Five years into the SDGs ISBN: TBD

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# **PROGRESS ON HOUSEHOLD** DRINKING WATER, SANITATION AND HYGIENE





2000-2020 FIVE YEARS INTO THE SDGs



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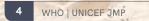
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# **Highlights**

## Five years into the SDGs

The World Health Organization and United Nations Children's Fund (WHO/ UNICEF) Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) produces internationally comparable estimates of progress on drinking water, sanitation and hygiene (WASH) and is responsible for global monitoring of the Sustainable Development Goal (SDG) targets related to WASH. In 2020, the JMP released updated estimates for WASH in schools and WASH in health care facilities (2000-2019). This report presents updated national, regional and global estimates for WASH in households for the period 2000 to 2020 and takes stock of progress five years into the SDG period (2015-2020).

The 2030 Agenda for Sustainable Development called for 'ensuring availability and sustainable management of water and sanitation for all' under SDG6, and established ambitious indicators for WASH services under targets 6.1 and 6.2. While the number of countries with estimates available for the new SDG global indicators has increased with each JMP progress update, many still only have a small number of data points making it difficult to assess trends. However we now have enough data to begin to assess the prospects for achieving the SDG targets. This report extrapolates estimates based on existing trends to illustrate current trajectories and the acceleration required to achieve universal coverage by 2030.

Achieving SDG WASH targets by 2030 will require a quadrupling of current rates of progress



FIGURE 1 Global coverage of WASH services, 2015-2020 (%), and acceleration required to meet targets by 2030

Five years into the SDGs, the world is not on track to achieve SDG targets 6.1 and 6.2. Achieving universal coverage by 2030 will require a quadrupling of current rates of progress in safely managed drinking water services, safely managed sanitation services, and basic hygiene services (Figure 1). Least developed countries (LDCs) have the furthest to go and it will be especially challenging to accelerate progress in fragile contexts<sup>1</sup>. Many more countries are facing challenges in extending services to rural areas and to poor and vulnerable populations who are most at risk of being left behind.

<sup>1</sup> As of May 2021, the OECD States of Fragility series identifies 57 fragile contexts, including 13 which are classified as extremely fragile. Source: <https://www.oeco org/dac/states-of-fragility-fa5a6770-en.htm>



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## DRINKING WATER

### From 2015 to 2020

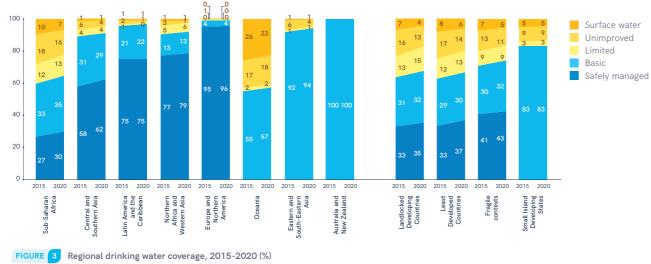
### In 2020

- The proportion of the global population using safely managed services increased from 70% to 74%, urban coverage increased from 85% to 86%, and rural coverage increased from 53% to 60%.
- The number of people without safely managed services decreased by 193 million, decreasing by 225 million in rural areas but increasing by 32 million in urban areas.
- The number of countries with estimates available for SDG 6.1.1 increased from 96 to 138, and the proportion of the global population with data available increased from 34% to 45%. Latin America and the Caribbean recorded the biggest increase in data coverage.
- On average, use of safely managed services increased by 0.63 percentage points per year (% pts/yr) at the national level, 0.89 % pts/yr in rural areas and 0.06 % pts/yr in urban areas.
- Achieving universal access to safely managed services by 2030 will require a 4x increase in current rates of progress (10x in least developed countries and 23x in fragile contexts)
- At current rates of progress, the world will only reach 81% coverage by 2030, leaving 1.6 billion people without safely managed services.

### · 2 billion people lacked safely managed services including 1.2 billion people with basic services, 282 million with limited services, 367 million using

- unimproved sources, and 122 million drinking surface water • 138 countries and five out of eight SDG regions had estimates for safely managed services, representing
- 45% of the global population. • 84 countries had achieved universal (>99%) access to at least basic services, including 30 countries that
- had achieved universal access to safely managed services. • 16 countries are on track to reach universal access
- to safely managed services, and 34 countries are on track to reach universal access to at least basic drinking water between 2020 and 2030. • People living in fragile contexts were twice as likely
- to lack safely managed services as those living in non-fragile contexts. • Eight out of ten people who still lacked even basic
- services lived in rural areas. Around half of them lived in least developed countries (LDCs).

### Five SDG regions had estimates for safely managed drinking water services in 2020



### In 2020, 138 countries<sup>2</sup> had estimates for safely managed drinking water services

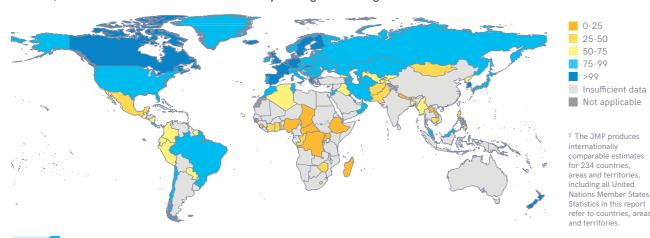


FIGURE 4 Proportion of population using safely managed drinking water services, 2020 (%)

### One in four people lacked safely managed drinking water services in 2020



2015-2020 (%)

### From 2015 to 2020

SANITATION

- The proportion of the global population using safely managed services increased from 47% to 54%, rural coverage increased from 36% to 44%, and urban coverage increased from 57% to 62%.
- The population practising open defecation decreased by a third, from 739 million people to 494 million. 85% of this drop occurred in rural areas.
- The number of countries with estimates available for safely managed services increased from 84 to 120, and the global population with data available increased from 48% to 81%.
- On average, use of safely managed services increased by 1.27 percentage points per year (% pts/yr) at the national level, 1.48 % pts/yr in rural areas, and 0.84 % pts/yr in urban areas.
- Achieving universal access to safely managed services by 2030 will require a 4x increase in current rates of progress (15x in least developed countries and 9x in fragile contexts).
- At current rates of progress, the world will only reach 67% coverage by 2030, leaving 2.8 billion
- population. 62 countries had achieved universal (>99%) safely managed services.
- lived in sub-Saharan Africa
- people without safely managed services.

### Seven SDG regions had estimates for safely managed sanitation services in 2020

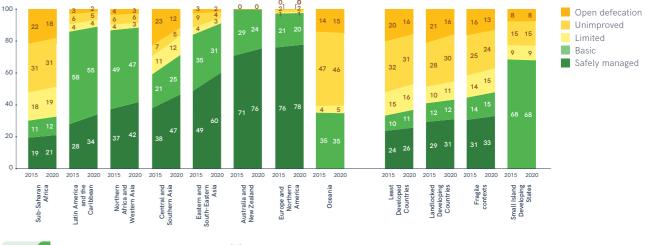


FIGURE 6 Regional sanitation coverage, 2015-2020 (%)

In 2020, 120 countries had estimates for safely managed sanitation services

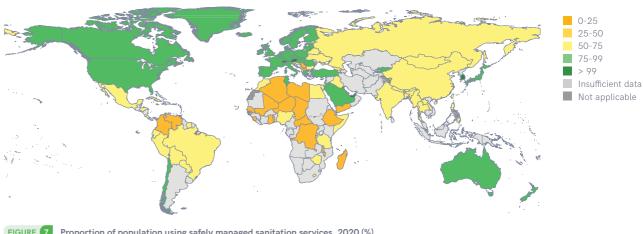


FIGURE 7 Proportion of population using safely managed sanitation services, 2020 (%)

WHO | UNICEF JMP

HIGHLIGHS

In 2020

services between 2020 and 2030.

### • 3.6 billion people lacked safely managed services, including 1.9 billion people with basic services, 580 million with limited services, 616 million using unimproved facilities, and 494 million practising open defecation.

• 120 countries and seven out of eight SDG regions had estimates for safely managed services, representing 81% of the global

access to at least basic services, including eight countries that had achieved universal access to

• 8 countries are on track to reach universal access to safely managed services, and 26 countries are on track to reach universal access to at least basic

 Two thirds of people who still lacked even basic services lived in rural areas. Nearly half of them

• 92% of the population practising open defecation lived in rural areas.

### Nearly half the world's population lacked safely managed sanitation services in 2020



### FIGURE 5

Global sanitation coverage, 2015-2020 (%)

## HYGIENE

## MENSTRUAL HEALTH

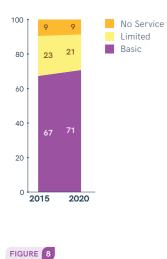
### From 2015 to 2020

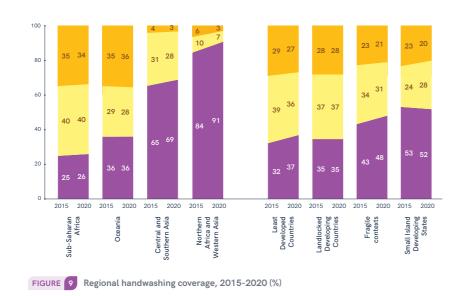
### In 2020

- The proportion of the global population with basic handwashing facilities with soap and water at home increased from 67% to 71%.
- The number of people lacking basic services decreased from 2.4 billion to 2.3 billion.
- The population with basic services increased by an average of 0.69 percentage points per year (% pts/yr). The rate of increase was greater in rural areas, at 1.08 % pts/yr. There were not enough data to make global estimates for urban areas.
- The number of countries with estimates available for basic services increased from 70 to 79, and the proportion of the global population with data available increased from 30% to 50%. Central and Southern Asia recorded the biggest increase in data coverage, followed by Oceania.
- Achieving universal access to basic services by 2030 will require a 4x increase in current rates of progress (7x in least developed countries and 5x in fragile contexts).
- At current rates of progress, the world will only reach 78% coverage in 2030, leaving 1.9 billion people without basic services.

- 71% of the global population had basic handwashing facilities with soap and water at home.
- 2.3 billion people lacked basic services, including 670 million people with no handwashing facilities at all. Over half of these people (374 million) live in fragile contexts.
- 79 countries and four out of eight SDG regions had estimates for basic services, representing 50% of the global population.
- 4 countries had already achieved universal (>99%) access to basic services, and 6 countries were on track to reach universal access between 2020 and 2030.
- · Most high-income countries lacked data on the availability of handwashing facilities with soap and water at home.
- In 16 countries, the gap in basic hygiene coverage between urban and rural areas was more than 20% pts and in 12 countries, the gap between highest and lowest subnational region was more than 50 % pts.

### Seven out of ten people had basic hygiene services in 2020



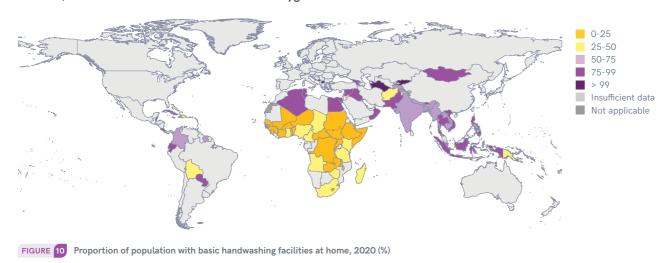


Four SDG regions had estimates for basic hygiene services in 2020

Global handwashing coverage, 2015-2020 (%)

### Note: For Northern Africa and Western Asia, limited and no service levels for 2020 were projected based on 2018 estimates

### In 2020, 79 countries had estimates for basic hygiene services



Emerging data and indicators on menstrual health

- SDG target 6.2 calls for 'special attention to the needs of women and girls' and WASH programmes are increasingly monitoring menstrual health related ne The JMP has expanded its global database to include emerging national data on menstrual health.
- New indicators related to menstrual health and associated WASH service needs have been progressively included in household survey questionnaires for women and girls age 15 to 49, and can be grouped as follows:
- > Awareness of menstruation before menarche (first menstruation).
- > Use of menstrual materials to capture and contain menstrual blood, such as pads, cloths, tampons or cups. These can also be grouped into single-use and reusable materials
- Access to a private place to wash and change while at home.
- > Participation in activities during menstruation, such as school, work and social activities.

### In 2020, 42 countries had nationally representative data on at least one menstrual health indicator

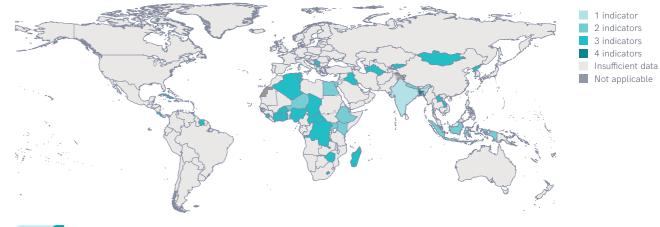
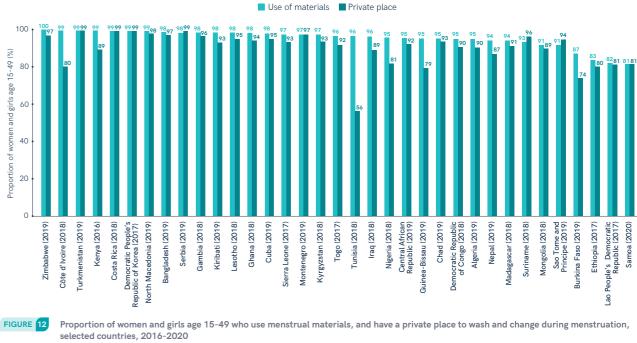


FIGURE 11 Numbers of indicators of menstrual health, by country, 2020

### Use of menstrual materials is high, but some women lack a private place to wash and change



- National data on these menstrual health indicators have been collected from 42 countries, 29 of which had some information on at least three of the indicators
- Nearly half (19) of the 42 countries with national data on the menstrual health indicators are in the sub-Saharan Africa region, and the majority are either low-income (13) or lower-middle-income countries (18). No high-income countries had national data on any of the four menstrual health indicators.
- Only two countries had national data on awareness of menstruation before menarche; 32% and 66% of girls were aware of menstruation before their first period in Bangladesh and Egypt, respectively.
- · Emerging data show in many countries a significant proportion of women and girls do not have the services they need for menstrual health and there are often substantial disparities between population sub-groups, particularly between sub-national regions and for women and girls with and without disabilities.



# Introduction

### Five years into the SDGs

Transforming our world: The 2030 Agenda for Sustainable Development is a plan of action for people, planet and prosperity, comprising 17 Sustainable Development Goals (SDGs) and 169 global targets. Goal 6 aims to 'ensure availability and sustainable management of water and sanitation for all' and includes eight targets that address drinking water, sanitation and hygiene (WASH) services, wastewater treatment, water quality, water use, water management, transboundary cooperation, water-related ecosystems, official development assistance and participation of local communities (Figure 13). The WHO/UNICEF Joint Monitoring Programme for Water, Supply, Sanitation and Hygiene (JMP) is responsible for monitoring SDG targets 6.1 and 6.2, and collaborates with other custodian agencies through

the UN-Water Integrated Monitoring Initiative for SDG6 (IMI-SDG6). The JMP also contributes to monitoring WASH indicators related to SDG targets on poverty (1.4.1), health (3.8.1) and education (4.a.1).

SDG targets 6.1 and 6.2 call for universal access to WASH services by 2030 and establish ambitious indicators that go beyond the types of facilities people use and introduce additional criteria related to the level of service provided (see Chapters 2 to 4). The 2030 Agenda also seeks to progressively reduce inequalities between and within countries and specifies that 'SDG indicators should be disaggregated where relevant by income, sex, age, race, ethnicity, migratory status, disability and geographic location or other characteristics'.

6.1 Drinking water       6.1.1 Safely managed drinking water services       WHO, UNICEF         6.2 Sanitation and hygiene       6.2.1a Safely managed sanitation services       WHO, UNICEF         6.3 Wastewater and water quality       6.3.1 Wastewater safely treated       WHO, UNICEF         6.4 Water use and water quality       6.4.1 Water use efficiency       FAO         6.5 Water resources       6.5.1 Integrated water resources management       UNEP	
CLEAN WATER       6.2.1b Basic handwashing services       WHO, UNICEF         6.3 Wastewater       6.3.1 Wastewater safely treated       WHO, UN-Habitat, UN         and water quality       6.3.2 Good ambient water quality       UNEP         6.4 Water use and water scarcity       6.4.1 Water use efficiency       FAO         water scarcity       6.4.2 Level of water stress       FAO	
CLEAN WATER       and water quality       6.3.2 Good ambient water quality       UNEP         6.4 Water use and water scarcity       6.4.1 Water use efficiency       FAO         6.4.2 Level of water stress       FAO	
AND SANITATION     6.4 Water use and water scarcity     6.4.1 Water use efficiency     FAO       6.4.2 Level of water stress     FAO	ISD
6.5 Water resources 6.5.1 Integrated water resources management UNEP	
management 6.5.2 Transboundary basin area with water cooperation UNECE, UNESCO-IH	2
6.6 Water ecosystems     6.6.1 Water-related ecosystems     UNEP, Ramsar       Convention	
6.a Cooperation 6.a. Water and sanitation-related official development WHO, OECD assistance	
6.b. Participation6.b. Participation of local communities in water and sanitation managementWHO, OECD	

### FIGURE 13 SDG6 global targets and indicators

<sup>3</sup> Coordinated by the UN-Water Integrated Monitoring Initiative for SDG6 (IMI-SDG6), including the United Nations Environment Programme (UNEP), United Nations Human Settlements Programme (UN-Habitat), United Nations Children's Fund (UNICEF), Food and Agriculture Organization of the United Nations (FAO), United Nations Economic Commission for Europe (UNECE), United Nations Educational, Scientific and Cultural Organization (UNESCO), World Health Organization (WHO) and World Meteorological Organization (WMO).

Since 2015, the JMP has expanded its global databases to incorporate the latest available national data related to the new SDG indicators. The JMP produces internationally comparable estimates for 234 countries, areas and territories, and has produced estimates disaggregated by wealth quintile and sub-national region for over 100 countries. The JMP published a global baseline report on WASH in households in 2017, and a progress update with a special focus on inequalities in 2019. This report presents updated national, regional

and global estimates of progress on WASH in households for the period 2000 to 2020.

The report takes stock of progress over the first five years of the SDG period. It assesses the status of WASH services in 2020 and progress made since 2015, and analyses the acceleration required to meet the SDG targets by 2030. It also reviews global trends in the availability of data for monitoring the SDG WASH indicators and presents emerging data on new indicators related to menstrual health. The report





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documents inequalities in drinking water, sanitation and hygiene (and menstrual health) between and within countries, and highlights the particular challenges faced by those living in fragile contexts<sup>4</sup>, which often have much lower coverage and rates of progress on WASH services and will need to be a major focus of efforts to build back better after the pandemic and accelerate progress towards the 2030 targets.

<sup>&</sup>lt;sup>4</sup> As of May 2021, the OECD States of Fragility series identifies 57 fragile contexts, including 13 classified as extremely fragile. <a href="https://www.oecd.org/dac/states-of-fragility-fa5a6770-en.htm">https://www.oecd.org/dac/states-offragility-fa5a6770-en.htm</a>>

### The challenge of assessing progress

During the first five years of the SDG period, there has been a steady improvement in the availability of data for monitoring the SDG global indicators for WASH. Both the total number of countries, areas and territories with estimates and the proportion of the global population for which estimates are available have increased with each JMP progress update on WASH in households (Figure 14).

The number of countries with national estimates available for SDG indicator 6.1.1 (safely managed drinking water services) has increased from 96 to 138, resulting in a growth in population coverage from 34% to 45%. There has been a three-fold increase in the number of countries with rural estimates (from 20 to 65) and a more than two-fold increase in the number of countries with urban estimates (from 42 to 87). Data availability for SDG indicator 6.2.1a (safely managed

sanitation services) has also improved, rising from 84 countries to 120 countries (rising from 48% to 81% of the population). More countries have gained estimates for safely managed sanitation in rural (45) than in urban (30) areas. By contrast, there has been a relatively small increase in the number of countries with data available for SDG indicator 6.2.1b (basic hygiene services), rising from 70 countries in the 2017 baseline report to 79 countries in this 2021 progress update. While population coverage has increased from 30% to 50%, this has mainly been driven by the addition of estimates for populous countries.

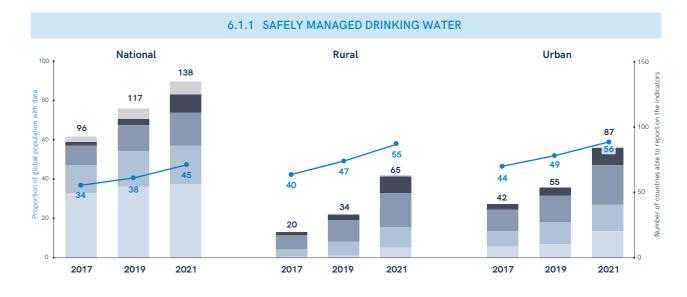
While previous JMP updates on WASH in households have presented estimates up to the current year minus two, this report presents estimates up to the current year minus one (2020). Therefore, timeliness has been significantly

improved. However, it remains challenging to assess trends and rates of progress for countries lacking recent data or having only a small number of data points available. If a country has only one data point or two data points less than five years apart, the JMP creates estimates using a simple average, which is extended for four years beyond the most recent data point. If there are two or more data points, covering a span of at least five years, the JMP applies linear regression with extrapolation for up to two years forwards and backwards from the last data point, and extends estimates for up to four more years. This means to generate estimates for 2020, countries must have new data points available from 2014 onwards, or from 2016 onwards if only one data point or two closely-spaced data points are available<sup>5</sup>.

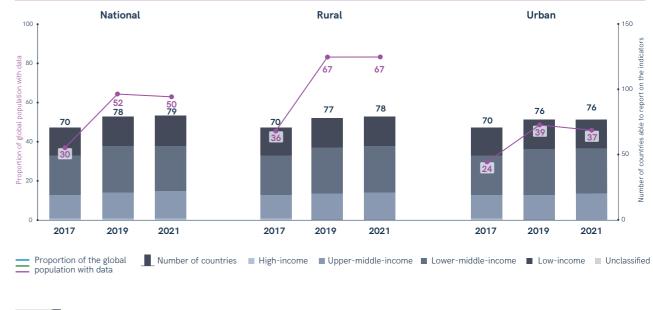
<sup>5</sup> For further details on the JMP methodology see Annex 1



## Global availability of data on SDG WASH indicators is improving







14 WHO | UNICEF JMP updates, 2017-2021

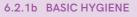


FIGURE 14 Proportion of population and number of countries with national, rural and urban estimates for SDG WASH indicators in JMP progress

Despite improvements in data availability, many countries<sup>6</sup> still lacked estimates for SDG indicators 6.1.1, 6.2.1a and 6.2.1b in 2020. Table 1 shows that data coverage for global WASH indicators varies widely

<sup>6</sup> The JMP produces internationally comparable estimates for 234 countries, areas and territories including all United Nations Member States. between SDG regions and there are still big gaps, particularly for elements of safely managed services. By 2020, estimates for basic drinking water, open defecation, and basic sanitation services were available for >95% of the population in all SDG regions, except for Latin

America and the Caribbean (93%). By contrast, population coverage for basic hygiene estimates ranged from 0% in Australia and New Zealand and in Europe and Northern America (no data available) to 92% in Central and Southern Asia and 93% in sub-Saharan Africa.

### Five years into the SDGs, data coverage for WASH indicators varies widely between regions

% of population (# countries,		DI	RINKING V	VATER				SANI	TATION			HYGIENE
areas and territories) in 2020	Basic	Safely managed	Accessible on premises					Safely managed				Basic
World (234)	99% (211)	45% (138)	99% (210)	81% (121)	56% (138)	97% (198)	99% (202)	81% (120)	65% (20)	1% (7)	91% (103)	50% (79)
Rural	98% (164)	55% (65)	98% (163)	86% (91)	55% (65)	97% (159)	98% (161)	73% (77)	69% (61)	0% (2)	83% (68)	67% (78)
Urban	93% (175)	56% (87)	93% (173)	74% (108)	56% (87)	94% (172)	94% (172)	75% (98)	60% (53)	0% (1)	80% (77)	37% (76)
SDG regions												
Australia and New Zealand (2)	100% (2)	16% (1)	100% (2)	84% (1)	73% (1)	100% (2)	100% (2)	100% (2)	0% (0)	0% (0)	100% (2)	0% (0)
Central and Southern Asia (14)	100% (14)	30% (11)	100% (14)	92% (10)	73% (11)	96% (13)	100% (14)	78% (5)	82% (0)	0% (0)	70% (5)	92% (10)
Eastern and South- Eastern Asia (18)	100% (18)	19% (12)	100% (17)	88% (10)	49% (12)	99% (16)	99% (16)	81% (11)	62% (2)	3% (2)	94% (7)	27% (9)
Europe and Northern America (53)	100% (50)	100% (48)	100% (50)	43% (16)	100% (48)	100% (48)	100% (48)	99% (44)	19% (16)	9% (5)	100% (46)	0% (2)
Latin America and the Caribbean (50)	93% (36)	77% (18)	94% (36)	91% (24)	77% (18)	93% (34)	93% (35)	82% (14)	13% (0)	0% (0)	91% (15)	19% (10)
Northern Africa and Western Asia (25)	100% (24)	37% (16)	100% (24)	72% (18)	38% (16)	95% (22)	98% (23)	85% (20)	28% (1)	0% (0)	94% (21)	53% (10)
Oceania (21)	99% (20)	11% (11)	99% (20)	84% (10)	17% (11)	97% (16)	98% (17)	3% (3)	10% (1)	0% (0)	58% (2)	76% (5)
Sub-Saharan Africa (51)	99% (47)	57% (21)	99% (47)	92% (32)	63% (21)	99% (47)	99% (47)	63% (21)	69% (0)	0% (0)	8% (5)	93% (33)
Other regional g	roupings											
Landlocked Developing Countries (32)	100% (32)	74% (22)	100% (32)	78% (23)	74% (22)	98% (31)	98% (31)	54% (17)	54% (0)	O% (O)	59% (11)	85% (26)
Least Developed Countries (46)	100% (44)	61% (21)	100% (44)	89% (34)	63% (21)	100% (43)	100% (43)	68% (25)	71% (0)	0% (0)	25% (5)	92% (36)
Small Island Developing States (53)	97% (39)	19% (16)	97% (39)	80% (23)	20% (16)	94% (33)	95% (35)	33% (9)	15% (1)	0% (0)	79% (6)	69% (14)
Fragile contexts (57)	100% (54)	71% (28)	100% (54)	87% (43)	74% (28)	94% (52)	100% (54)	54% (26)	57% (0)	0% (0)	38% (13)	85% (39)
Income grouping	gs											
Low-income (29)	99% (28)	59% (14)	99% (28)	87% (23)	56% (14)	97% (27)	99% (28)	56% (14)	57% (0)	0% (0)	22% (2)	84% (23)
Lower-middle- income (50)	100% (48)	37% (26)	100% (48)	94% (36)	69% (26)	100% (48)	100% (48)	80% (26)	78% (0)	O% (O)	74% (20)	94% (34)
Upper-middle- income (55)	98% (50)	30% (30)	98% (50)	85% (36)	50% (30)	94% (45)	97% (46)	80% (28)	51% (1)	O% (O)	93% (27)	19% (21)
High-income (82)	100% (71)	93% (58)	100% (70)	47% (24)	93% (58)	100% (65)	100% (66)	98% (52)	37% (19)	28% (7)	99% (54)	0% (1)

>50% coverage

[TABLE 1] Data coverage for global WASH indicators in JMP 2021 progress update, percentage of population (number of countries) with data available

services varied widely between regions. While data coverage for accessibility was universal (>99%) in all SDG regions, data coverage for availability ranged from just 43% in Europe and Northern America to 84% in Australia and New Zealand, and data coverage for quality ranged from 100% in Europe and Northern America to just 17% in Oceania. But the biggest data gaps were observed for elements of safely managed sanitation services. While estimates for centralized wastewater treatment were available for >50% of the relevant population in all regions, except for sub-Saharan Africa (8%), population coverage for safe management of on-site systems was much lower. Only three regions (Central and Southern Asia, Eastern and South-Eastern Asia, and sub-Saharan Africa) had estimates for safe disposal in situ for >50% of the relevant population. Only two SDG regions had estimates for the population using on-site systems emptied and treated off-site; Europe and Northern America had estimates for 9% of the relevant population, while data coverage in Eastern and South-Eastern Asia was

Data availability for elements of

safely managed drinking water

## The impact of COVID-19 on WASH

The COVID-19 pandemic has plunged the global economy into recession, with an additional 119 to 124 million people pushed into extreme poverty during 20207. Measures taken by governments to contain and mitigate the pandemic have led to widespread disruption in the provision and financing of essential services, including WASH. The global response has had a strong focus on promoting hand hygiene and strengthening infection prevention and control (IPC), and governments have introduced a range of measures designed to keep WASH services running, including emergency financial support to utilities and vulnerable households8. While it is clear the pandemic will have far reaching effects on levels of public and private investment in WASH services, it remains too early to assess the medium and long-term impact on progress towards the SDG WASH targets.

World Bank, Updated estimates of the impact of COVID-19 on global poverty: Looking back at 2020 and the outlook for 2021 <a href="https://blogs.worldbank.org/">https://blogs.worldbank.org/</a> opendata/updated-estimates-impact-covid-19-global poverty-looking-back-2020-and-outlook-2021> 8 UNICEF & SIWI 2020 Overview of Water, Sanitation and Hygiene (WASH) COVID-19 Responses from Governments, Regulators, Utilities and other Stakeholders in 84 Countries <https://www.siwi.org/wpcontent/uploads/2020/08/20200701 Mapping-WASH COVID-19\_Key-remarks\_v6\_clean-Aug-10-.pdf>



just 3%.

### Disruption of routine data collection

COVID-19 has posed severe challenges to the collection and production of data at all levels, which will have a long-term impact on national and global monitoring of all key development indicators. At the same time it has increased demand for new data on emerging issues and for 'real-time' information to evaluate the impact of the outbreak and the effectiveness of responses.

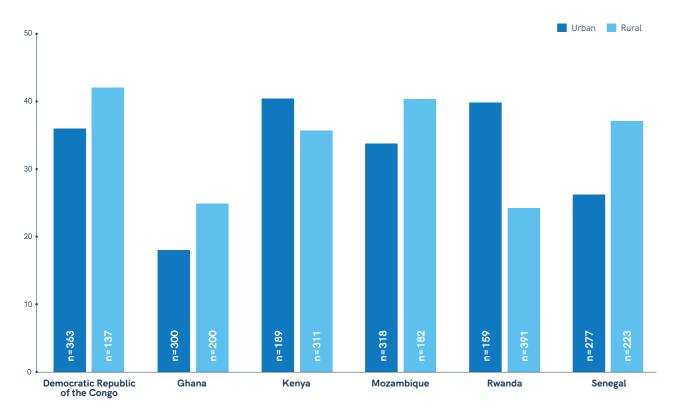
In May 2020, the United Nations Statistics Division (UNSD) and the World Bank launched a global survey to assess the impact of COVID-19 on statistical operations at country level<sup>9</sup>. It found that the pandemic has caused widespread disruption to routine data collection and led to delays, interruptions, diversion of funding, and, in some cases, cancellation of planned censuses and household surveys. The final assessment in December 2020 showed that many National Statistical Offices (NSOs) have been forced to close for long periods. 75% reported that face-to-face data collection had been partially or fully suspended, and most were uncertain about when they would resume. Many NSOs reported exploring remote methods of data collection to fill data gaps, but highlighted the need for further capacity building in this area.

### **Emergence of new data sources**

During the pandemic, many NSOs have switched from face-to-face surveys to alternative means of data collection to track responses to COVID-19 and its socio-economic impacts, including increased use of phone surveys, and computerassisted telephone interviewing (CATI) and short message service (SMS) surveys.

<sup>°</sup> UNSD and World Bank, Survey of National Statistics Offices during COVID-19, World Bank and UNSD, December 2020 <https://covid-19-response.unstatshub. org/posts/survey-of-national-statistical-offices-duringcovid-19/>

### SMS consumer surveys indicate significant disruption to drinking water services due to COVID-19





Source: USAID 2020 Synthesis Report: Assessing the effects of COVID-19 on access to water, sanitation, and hygiene in USAID high priority and strategy-aligned countries <a href="https://pdf.usaid.gov/pdf\_docs/PA00XDMX.pdf">https://pdf.usaid.gov/pdf\_docs/PA00XDMX.pdf</a>.

For example, the World Bank Living Standards Measurement Study (LSMS) has supported highfrequency phone surveys comprising monthly interviews over a 12-month period with a sub-sample of households interviewed during previous household surveys<sup>10</sup>. The UNICEF Multiple Indicator Cluster Surveys (MICS) programme has also started conducting follow up telephone interviews with a sub-sample of respondents to accumulate longitudinal data on responses to crises (MICS Plus)<sup>11</sup>. These phone surveys often include a small number of questions on WASH services and whether households had sufficient water to drink or soap to wash hands with in the last week or month.

SMS consumer surveys use large mobile subscriber databases to generate nationally representative samples of users who are then asked to complete short surveys using basic feature phones (nonsmartphones)<sup>12</sup>. During 2020, the United States Agency for International Development (USAID) commissioned cross-sectional SMS surveys on the effects of COVID-19 on WASH services for more than 3,000 randomly selected individuals in six African countries. Respondents indicated significant disruption to WASH services, with around one in four people reporting that COVID-19 had made it more difficult to access drinking water, while in most of the countries there are more pandemic-related water access problems reported in rural than urban areas (Figure 15).

<sup>12</sup> While cell phone coverage is growing rapidly, cell phone ownership and the technical ability to complete surveys are potential sources of bias in SMS survey samples.

Big data is another potential new source of data on WASH services. In early 2020, Facebook launched a series of surveys related to COVID-19<sup>13</sup>. With more than 2 billion users in more than 200 countries, Facebook's surveys have the potential to reach large segments of the global population. Each day, a new sample of Facebook users in each country are invited to participate in surveys about symptoms, beliefs and behaviours related to COVID-19. Daily, weekly and monthly data are then aggregated for public health researchers and decision makers, using analytic weights to adjust for non-response and coverage biases.

<sup>13</sup> The World Symptoms Survey was developed in collaboration with University of Maryland and Carnegie Mellon University and the COVID-19 Preventive Health Survey and the COVID-19 Beliefs, Behaviors & Norms Survey were developed in collaboration with the Massachusetts Institute of Technology (MIT), Johns Hopkins University (JHU), with advice from the WHO and the Global Outbreak Alert and Response Network (GOARN) <https://dataforgood.fb.com/docs/covid19/>



Between April and July 2020, respondents were asked how often they had washed their hands after being in public in the past seven days ('all of the time', 'most of the time', 'about half of the time', 'some of the time' or 'none of the time'). Compliance with recommended hand hygiene measures varied widely between countries but was generally higher in urban than rural areas (Figure 16). Less than half the population in Brazil, Pakistan, the United Republic of Tanzania, Thailand, Tunisia, Viet Nam and Yemen reported washing their hands 'all of the time' and no country achieved >75% compliance during

the reporting period. The data suggest a gradual improvement in Uzbekistan, although big gaps remain between urban and rural, whereas in Albania the gap between urban and rural has been gradually reduced. In Australia, New Zealand and the Netherlands, there is has been a gradual deterioration in hand hygiene behaviour during the reporting period.

Between July 2020 and May 2021, users were asked about the frequency of handwashing with soap and water or hand sanitizer over the last 24 hours. The frequency of handwashing varied between countries, but in most cases it did not change significantly during the reporting period (Figure 17). In Australia and New Zealand, more than nine out of ten people reported washing their hands at least three times per day throughout the assessment period. But in Viet Nam, Yemen, Haiti and Tanzania, around one in five people reported washing their hands fewer than three times per day. Yemen had the largest proportion reporting washing their hands 'zero times' (20%) and the smallest proportion washing their hands '7+ times' (17%).

<sup>&</sup>lt;sup>10</sup> https://www.worldbank.org/en/programs/lsms/brief/ lsms-launches-high-frequency-phone-surveys-oncovid-19

<sup>&</sup>lt;sup>11</sup> https://mics.unicef.org/mics-plus/methodology-and-use

### Big data show wide variations in adoption of hand hygiene measures in response to COVID-19

# Australia and New Zealand Australia New Zealand w18 w20 w21 w21 w23 w23 w26 w26 w17 w18 w19 w20 w21 w22 w28 w25 w26 w26



Pakistan

Brazil

2 33

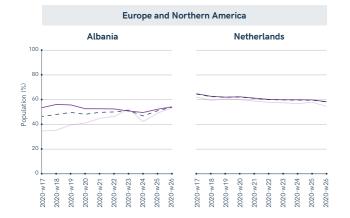
Central and Southern Asia

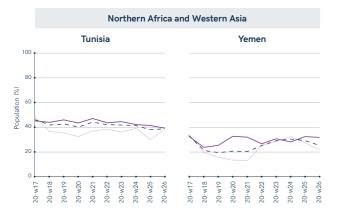
Latin America and the Caribbean

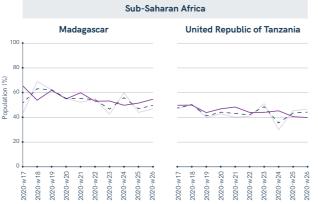
Uzbekistan

Haiti





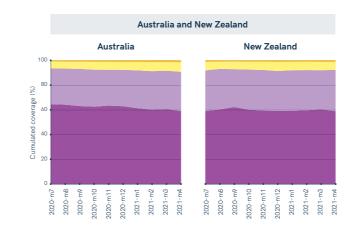


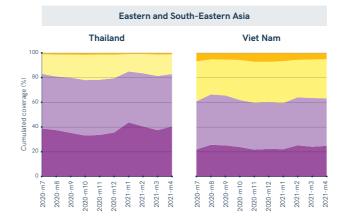


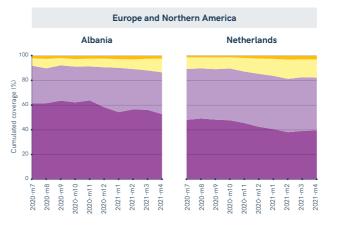
--- National \_\_ Urban Rural

FIGURE 13 Proportion of population reporting washing hands 'all of the time' after being in public in the last seven days, selected countries (%)

### Big data confirm that daily frequency of handwashing varies widely across countries and over time







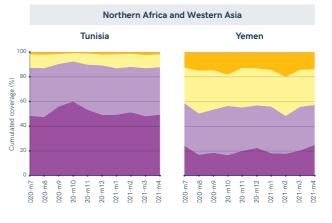
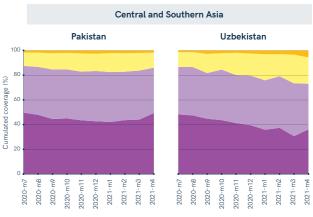


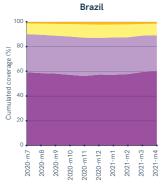
FIGURE 17 Frequency of handwashing with soap and water or use of hand sanitizer in the last 24 hours

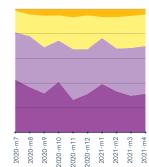
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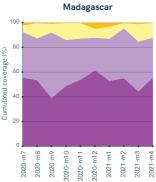
Latin America and the Caribbean



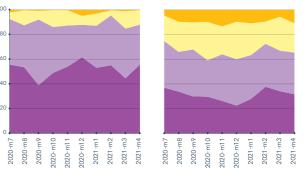


Haiti

Sub-Saharan Africa



United Republic of Tanzania



0 times 1-2 times 3-6 times 7+ times

## Fragile contexts and vulnerable populations

Fragility poses a major threat to the achievement of the SDGs. Fragile contexts were home to 23% of the world's population (1.8 billion people) and more than three guarters of those living in extreme poverty in 2020. This report highlights the challenges faced by including separate estimates for this group of countries in many of the figures and in the statistical annexes. People living in fragile contexts often have much lower WASH service levels and will need to be a major focus of efforts to accelerate progress towards the 2030 SDG targets.

Over the first five years of the SDG period, basic drinking water coverage in fragile contexts has increased from 71% in 2015 to 74% in 2020. However, achieving universal access to at least basic drinking water will require a 4x increase in current rates of progress, while achieving universal access to safely managed drinking water will require a 23x increase (Figure 18). Open defecation in fragile contexts has been reduced from 16% in 2015 to 13% in 2020, but rates of progress will need to double to achieve elimination by 2030. Achieving universal access

to at least basic sanitation will require a 7x increase, and achieving universal access to safely managed services will require a 9x increase. Coverage of basic hygiene services has increased from 43% in 2015 to 48% in 2020, but at current rates of progress only 58% of the population living in fragile contexts will have access by 2030. Achieving the SDG target for hygiene in fragile contexts will require a 5x increase in current rates of progress.

In 2020, people living in fragile contexts were half as likely as those living in non-fragile contexts to

have safely managed drinking water (43% vs 82%) and safely managed sanitation services (33% vs 60%) (Figure 19). They were five times as likely to lack even basic drinking water (26% vs 5%), four times as likely to lack basic sanitation (52% vs 13%) and three times as likely to practise open defecation (13% vs 4%). There were also significant

disparities between fragile and non-fragile contexts in each SDG region. In Oceania, there was a 47 % pt gap in coverage of basic drinking water and a 66 % pt gap in basic sanitation coverage. While there was no difference in Central and Southern Asia, in sub-Saharan Africa only a quarter of those in fragile contexts used basic hygiene

People living in fragile contexts have much lower service levels in all regions



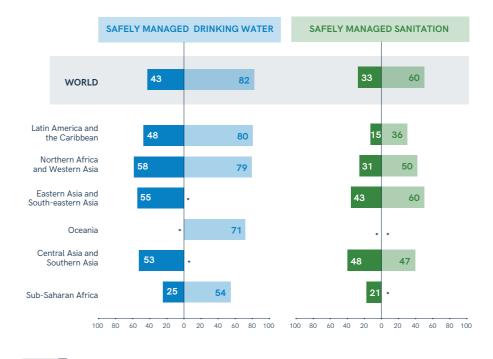


FIGURE 19 Proportion of population with at least basic and safely managed services in fragile and non-fragile contexts, 2020 (%)

### Achieving SDG targets in fragile contexts will require a dramatic acceleration in current rates of progress



FIGURE 18 Progress on WASH in fragile contexts, 2015-2020 (%), and acceleration required to achieve universal coverage by 2030

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services, compared with one third in non-fragile contexts. Latin America and the Caribbean has the biggest coverage gaps for safely managed drinking water (32 % pts) and Eastern and South-Eastern Asia has the biggest disparities in coverage of safely managed sanitation services (19% pts).

Fragile Non-fragile

Insufficient data

People living in fragile contexts are more likely to suffer from political, economic and environmental crises and national systems for monitoring WASH services in such contexts are often weak. The REACH-supported Multi-Sector Needs Assessments (MSNAs)<sup>14</sup> aim to inform humanitarian planning by providing comparable data across all relevant sectors on disaster and crisis-affected areas and vulnerable populations. MSNAs were conducted in 12 countries during 2020, and while these surveys are not standardized, they provide disaggregated data that can be used to compare WASH service levels between population subgroups. Figure 20 shows JMP 2020 estimates for global, regional and national coverage of basic sanitation

services alongside MSNA subnational estimates for vulnerable populations in Afghanistan. In 2020, global coverage of basic sanitation services was 78% but it was far lower among the 44 countries listed as fragile (49%) and the 13 countries listed as extremely fragile (42%) by OECD. National coverage among these 57 fragile contexts varied widely, from universal (>99%) in Iraq to just 9% in Ethiopia, with most countries (35) having <50% coverage. The JMP estimates that basic sanitation coverage in Afghanistan was 50% in 2020, and higher in urban (67%) than rural areas (45%). The 2020 MSNA survey provides further disaggregations for vulnerable populations. Coverage was significantly lower among displaced populations (38%) than non-displaced (50%), and among

vulnerable populations, refugees (32%) were least likely to use basic sanitation services.

Similar surveys in Burkina Faso and the Central African Republic showed that displaced populations were also far less likely to have basic water and sanitation services than the rest of the population (Figure 21). The JMP estimates 47% of the population of Burkina Faso had basic drinking water services by 2020, but coverage among displaced populations was just 30%. Displaced populations in the Central African Republic were only half as likely to use basic sanitation services (8%) as the overall population (14%), but while they were more likely to use unimproved facilities (66% vs 45%) they were less likely to practise open defecation (11% vs 25%).



Displaced populations in fragile contexts are least likely to have basic sanitation services



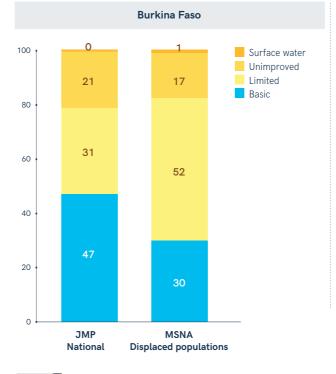
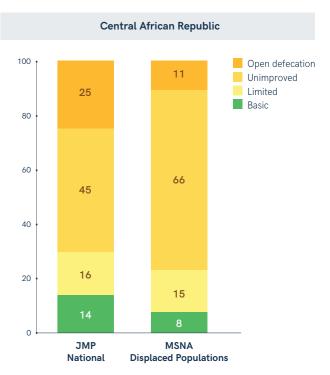


FIGURE 21 Basic drinking water and sanitation service ladders for national (JMP) and for displaced populations (MSNA), 2020

Urban/Rural	Vulnerable population
67 Urban	
45 Rural	50 Non-displaced
	42 Returnee
	38 Displaced Population 37 Internally displaced person
	32 Refugee
	- C

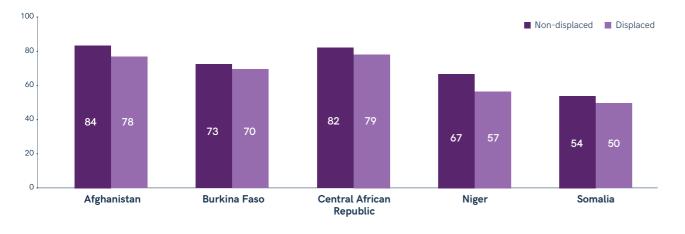
Note: Vulnerable population estimates are extracted from the Afghanistan 2020 MSNA. Other data are JMP 2021 estimates.



### In Burkina Faso and the Central African Republic, displaced populations were far less likely to have basic services

<sup>&</sup>lt;sup>14</sup> For more details: https://www.reachresourcecentre. info/theme/multi-sector-assessments

### Among vulnerable populations, displaced populations are less likely to have soap in the household





MSNA surveys also collect data on hygiene which show that among vulnerable populations displaced households are consistently less likely to have soap available in the household than non-displaced households (Figure 22). Some recent surveys have also included information on the accessibility and availability of drinking water. In Afghanistan, internally displaced persons (IDPs), returnees and refugees were significantly less likely to have drinking water accessible on premises (within the dwelling, yard or plot), while in Burkina Faso disparities in the availability of sufficient water to meet domestic needs were less pronounced (Figure 23).

Displaced populations in fragile contexts are least likely to have basic services

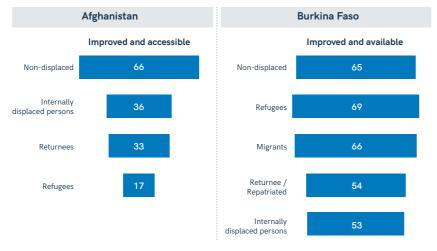


FIGURE 23 Population with access to improved drinking water accessible on premises (Afghanistan) and improved water available when needed (Burkina Faso) among vulnerable population sub-groups (%), MSNA 2020

People living in refugee camps are among the most vulnerable of all. The office of the United Nations High Commissioner for Refugees (UNHCR) maintains a global database<sup>15</sup> containing information on the status of WASH services and compliance

with agreed targets and service standards for refugee settings. Data collected through monthly site reports and annual Knowledge Attitudes and Practices surveys are uploaded to an online data portal containing information for 160 sites in 25 countries, which serve more than 3.8 million refugees.

<sup>15</sup> https://wash.unhcr.org/unhcr-wash-monitoringsystems-for-refugee-settings

### People living in refugee camps often lack access to soap and toilets in the household

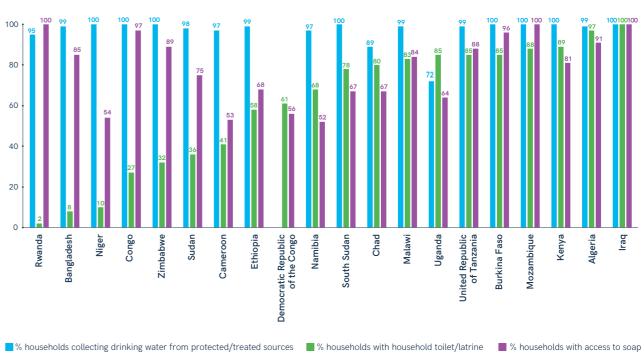


FIGURE 24 Proportion of households with access to WASH services in refugee camps, by country in 2021 (%) Source: UNHCR WASH dashboard for refugee settings: household and community, accessed May 2021 <https://wash.unhcr.org/wash-dashboard-for-refugee-settings/>.



While most people living in refugee camps collect drinking water from protected/treated sources, camps in many countries are unable to meet the post-emergency target of at least 85% of households with a household toilet/latrine and at least 95% of households with access to soap (Figure 24).



# **Drinking water services**

The JMP uses 'service ladders' to benchmark and compare progress across countries, and these have been updated and expanded for SDG monitoring. The drinking water ladder defines five service levels, ranging from surface water to safely managed drinking water services, which is the global indicator for SDG target 6.1 (Figure 25). The ladder builds on the improved/unimproved source type classification used for Millennium

Development Goal (MDG) monitoring and introduces additional criteria related to the level of service provided. For SDG monitoring, households using improved sources are divided into three categories. If a round trip to collect water, including queuing, exceeds 30 minutes, it counts as a 'limited service', and if it takes no more than 30 minutes, it counts as a 'basic service'.

SERVICE LEVEL	DEFINITION
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	Drinking water from an improved source, provided collection time is not more than 30 minutes for a round trip, including queuing
LIMITED	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

### FIGURE 25 SDG ladder for drinking water services

Note: Improved sources include: piped water, boreholes or tubewells, protected dug wells, protected springs, rainwater, and packaged or delivered water

But to meet the SDG standard for 'safely managed services', improved sources must be accessible on premises, available when needed, and free from contamination. Since households with safely managed services also meet the requirements for basic services, the two levels can also be grouped together as 'at least basic service', which is the indicator

used for monitoring SDG target 1.4.

Improved sources include: piped water, boreholes or tubewells, protected dug wells, protected springs, rainwater, and packaged or delivered water. Sources are considered 'accessible on premises' if the point of collection is within the dwelling, compound, yard or plot, or water is delivered to the household. Water is counted as 'available when needed' if households report having 'sufficient' water, or water is available 'most of the time' (that is, continuously or for at least 12 hours per day or four days per week). For the purposes of global monitoring, drinking water is considered 'free from contamination' if no E. coli or thermotolerant coliforms are detected in a 100 mL sample, and it meets WHO standards for priority chemicals (arsenic and fluoride). For further details, see Annex 1: Methods.

Between 2000 and 2020, the global population increased from 6.1 billion to 7.8 billion people<sup>16</sup>. During this period, 2 billion people gained access to safely managed drinking water services, and the number of people lacking safely managed services decreased by 342 million. The 2 billion people who still lacked safely managed drinking water in 2020 included 1.2 billion people using basic services, 282 million using limited services, 367 million using unimproved sources, and 122 million drinking surface water (Figure 26). Half of the 771 million people still lacking even a basic drinking water service in 2020 lived in sub-Saharan Africa.

<sup>16</sup> The population data used in this report are published by the United Nations Population Division (World Population Prospects, 2019 Revision).

## drinking water services

Surface water Unimproved Limited Basic Safely managed

> 249 million **4%** 721 million 12%

> > 1.2 billion 20%

3.8 billion 62%



Between 2000 and 2020, 2 billion people gained access to safely managed

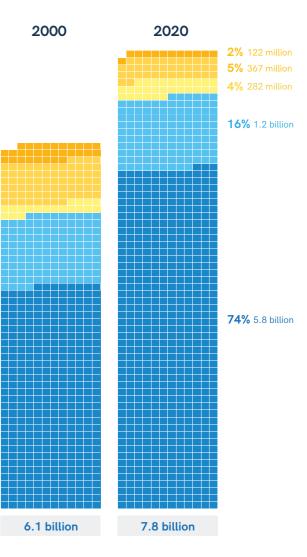


FIGURE 26 Global population using different levels of drinking water service, in 2000 and 2020 (each unit represents 10 million people)



In 2020, coverage of safely managed drinking water services remained lower in rural areas (60%) than in urban areas (86%), but over the first five years of the SDG period rural coverage has increased faster than urban coverage (Figure 27). Between 2015 and 2020, rural coverage increased by 7 % pts while urban coverage increased by just 1 % pt and stagnated in many regions.

While the gap between rural and urban coverage decreased from 32 % pts to 26 % pts, urban areas still accounted for around two thirds of those with safely managed drinking water in 2020. All SDG regions had urban estimates, but only three out of eight had estimates for rural areas in 2020. Sub-Saharan Africa had the most significant disparity in coverage of safely managed

drinking water between urban (54%) and rural (13%) areas, followed by Latin America and the Caribbean with 81% in urban versus 53% in rural areas. Since 2015, Central and Southern Asia has recorded the fastest progress in rural areas, while sub-Saharan Africa recorded the fastest progress in urban areas.

### In 2020, urban coverage of basic and safely managed services was higher in all SDG regions

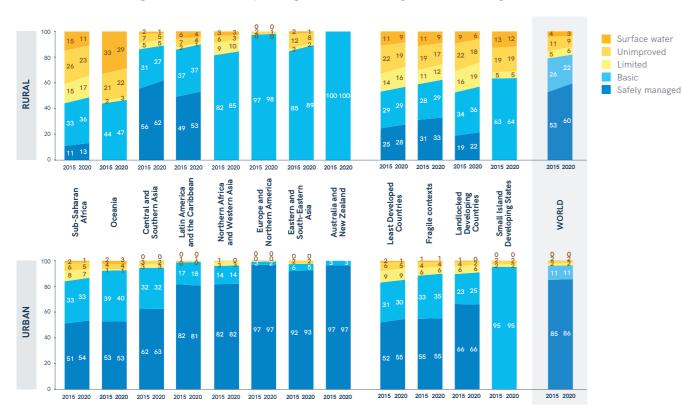


FIGURE 27 Urban and rural drinking water coverage, by service level and SDG region, in 2015 and 2020 (%)

## Safely managed drinking water services

Over the first five years of the SDG period<sup>17</sup>, global coverage of safely managed drinking water services has increased by just 4 % pts. At current rates of progress, the world will only reach 81% coverage by 2030, leaving 1.6 billion people without safely managed services (Figure 28). Since 2015, Central and Southern Asia has achieved the fastest rate of progress, but no SDG region is on track to achieve universal coverage by 2030. Although it achieved the second fastest rate of progress, sub-Saharan Africa still requires the greatest acceleration and at current rates of progress will only reach 37% coverage of safely managed drinking water by 2030. Achieving universal access to safely managed services by 2030 requires a 4x increase in current rates of progress (10x in the LDCs and 23x in fragile contexts).

17 In this report, with a focus on 'five years into the SDGs' many figures focus on the progression from 2015-2020, although the JMP produces estimates of annual rates of change using all available data points for the entire reference period, 2000-2020

2015

100

%

20





### The world is not on track to achieve universal access to safely managed drinking water services by 2030

GURE 28 Progress in safely managed drinking water services 2015-2020 (%), and acceleration required to reach universal coverage by 2030, by SDG region

Coverage of safely managed drinking water services varied widely between countries in 2020

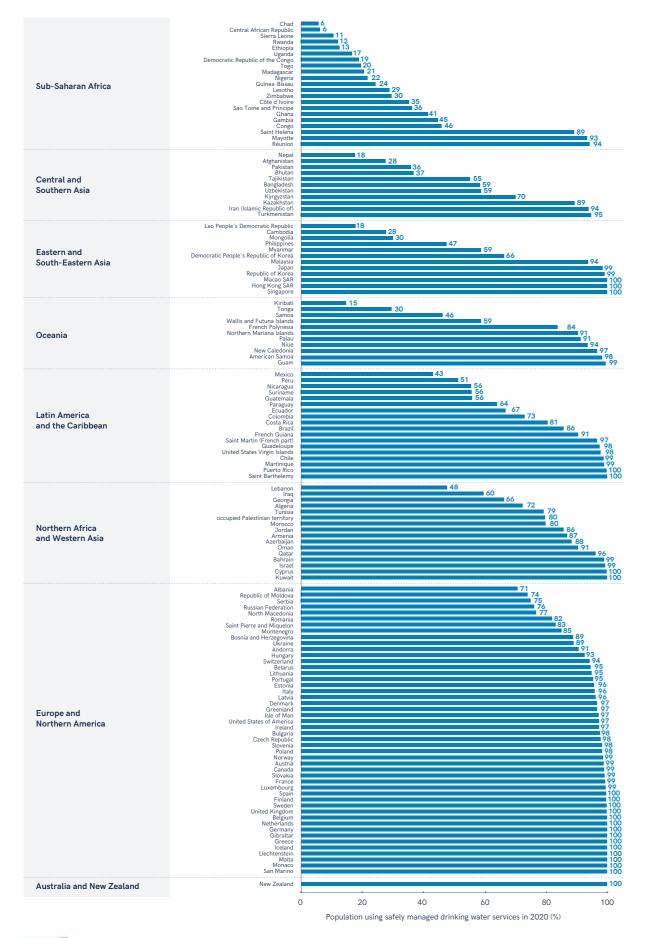


FIGURE 29 Population using safely managed drinking water services, by country, 2020 (%)

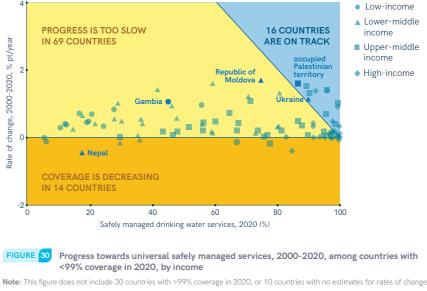
WHO | UNICEF JMP

In 2020, 138 countries had estimates for safely managed services, representing 45% of the global population. Thirty countries had already achieved universal coverage (>99%), but coverage varied widely between countries (Figure 29). In 2020, six out of eight SDG regions had at least one country with <50% coverage, and in 20 countries less than a third of the population used safely managed drinking water services.

Figure 30 shows the coverage of safely managed drinking water services among countries with less than 99% coverage in 2020, and the average percentage point change per year between 2000 and 2020. At current rates of progress, only 16 countries are on track to reach universal coverage by 2030. These are mostly upper-middle or high-income<sup>18</sup> countries, and Ukraine is the only lower-middle income country on track. Sixty-nine countries are progressing too slowly and in 14 countries coverage has decreased. Although the Republic of Moldova has recorded the fastest

<sup>18</sup> Using the World Bank's classification by income updated in June 2020. http://databank.worldbank.org/ data/download/site-content/CLASS.xls

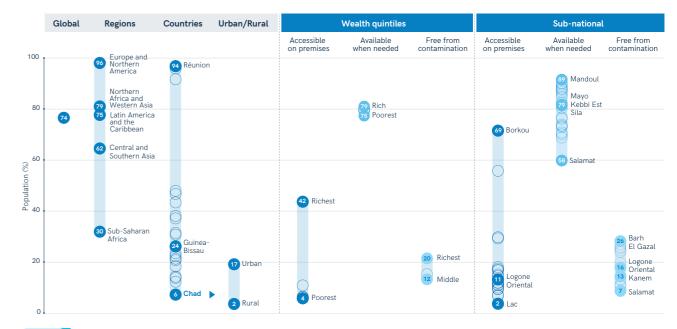
managed drinking water by 2030



rate of change since 2015 (0.37 percentage points per year), this is not sufficient to achieve universal coverage by 2030.

National, regional and global averages often mask significant inequalities in service levels between and within countries. While three out of four people worldwide used safely managed drinking water services in 2020, regional coverage ranged

### Disaggregated data reveal huge disparities in drinking water service levels between and within countries



FIGUR Inequalities in safely managed drinking water services and its elements, Chad, 2019 (%) Note: Sub-national and wealth quintile data are extracted from the Chad 2019 MICS. Other data are JMP 2021 estimates

## Only 16 out of 99 countries are on track to achieve universal (>99%) safely

from 96% in Europe and Northern America to just 30% in sub-Saharan Africa (Figure 31). Inequalities were even more pronounced among the 21 countries in sub-Saharan Africa, with national estimates ranging from 94% in Reunion to just 6% in Chad. The national average for Chad masks a big gap in coverage between rural areas and urban areas, which were nine times more likely to have safely managed drinking water in 2020.



The availability of disaggregated data on individual elements of safely managed drinking water services from the Chad 2019 MICS enables further analysis of sub-national inequalities in accessibility on premises, availability when needed, and drinking water quality (free from contamination). Disparities between the richest and poorest were relatively small for availability and quality but much larger for accessibility, with 42% of the richest and just 4% of the poorest having improved sources accessible on premises. There were also large disparities in accessibility between sub-national regions, ranging from 69% on premises in Borkou to just 2% in Lac. In all sub-national regions, at least half the population had water available when needed, but the proportion of the population with supplies free from contamination was much lower, ranging from 26% in Barh el Gazal to just 7% in Salamat.

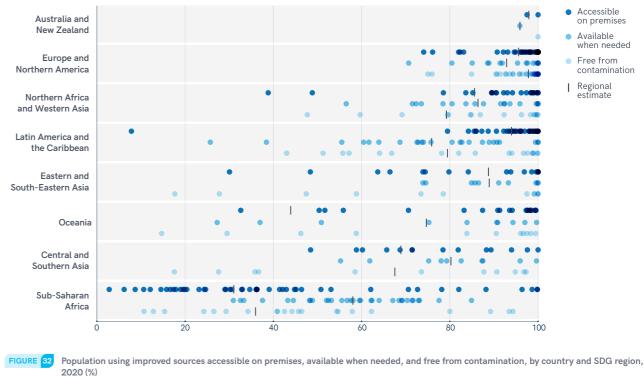
To calculate safely managed drinking water services, the JMP takes the minimum value

for accessibility, availability and quality in rural and urban areas and combines these to produce national estimates. In 2020, 210 countries had national estimates for accessibility (representing 99% of the population), 121 countries had estimates for availability (representing 82% of the population), and 138 countries had estimates for quality (representing 45% of the population). Figure 32 shows that drinking water service levels varied widely between countries in each SDG region. For example, in Latin America and the Caribbean, accessibility on premises ranged from 8% in Haiti to universal (>99%) in eight countries, availability ranged from 26% in the Bolivarian Republic of Venezuela to universal (>99%) in Chile, Puerto Rico and Uruguay. Quality ranged from 43% in Mexico to universal (>99%) in Martinique, Puerto Rico and Saint Barthelemy. Accessibility is often the limiting factor in Eastern and South-Eastern Asia, Oceania and sub-Saharan Africa, in contrast, availability is more likely to be the limiting factor in Australia and New

Zealand, Europe and Northern America, and Latin America and the Caribbean, and quality tends to be the limiting factor in Northern Africa and Western Asia and Central and Southern Asia.

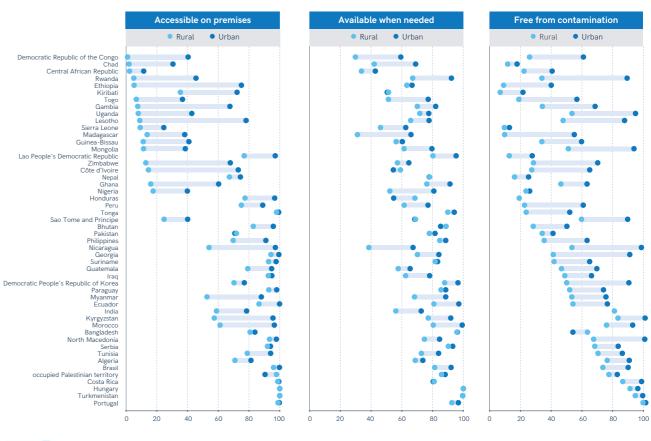
A growing number of countries have disaggregated data available for all three criteria of safely managed drinking water services in rural and urban areas. In almost all countries, service levels are higher in urban areas than in rural areas, but different patterns of inequality can be seen (Figure 33). For example, in Lesotho the gap between rural (9%) and urban (78%) coverage of drinking water accessible on premises is 69 % pts. In Madagascar, the gap between rural and urban areas exceeds 24 % pts for all three SDG criteria. Both Côte d'Ivoire and Zimbabwe have large coverage gaps for accessibility and quality but small gaps for availability. In Tonga, the coverage gap is less than 5% for accessibility and availability but more than 28% for quality.

### Accessibility, availability and quality of drinking water varied widely between countries and regions in 2020



Note: Some regions do not have enough data to produce a regional estimate.

### In 2020, many countries had large gaps in accessibility, availability and quality of drinking water in urban and rural areas



contamination, by country in 2020 (%)

FIGURE 33 Proportion of rural and urban populations using improved sources accessible on premises, available when needed, and free from

Improved sources that are accessible on premises are not always available when needed or free from contamination

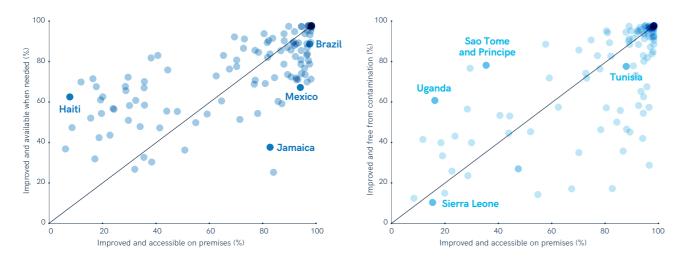


FIGURE 34 Population using improved sources accessible on premises, and improved sources available when needed and free from contamination, by country, 2020 (%)

In most regions accessibility, availability and quality of drinking water increased between 2015 and 2020

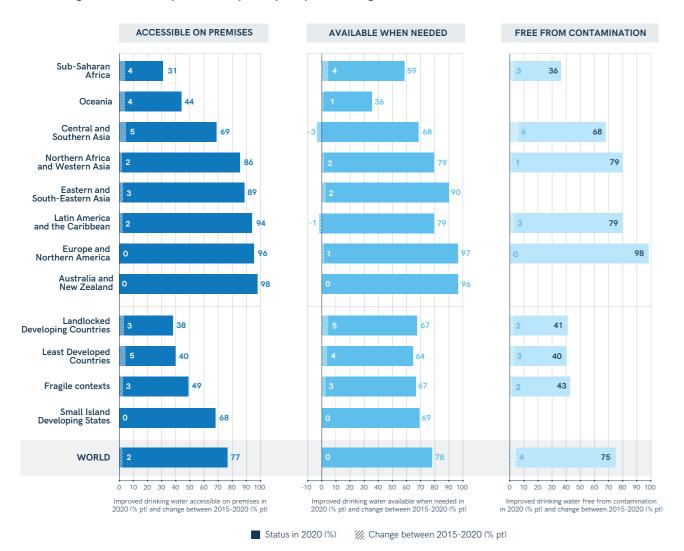


FIGURE 35 Population using improved drinking water sources accessible on premises, available when needed, and free from contamination, by region in 2020, and percentage point change, 2015-2020 (%)

Figure 34 compares the proportion of the population with an improved source accessible on premises and the proportions with water available when needed and free from contamination for countries with national estimates for all three. It shows that water supplies that are accessible on premises are not always available when needed or free from contamination. For example, in Jamaica, the majority of people (84%) use improved sources accessible on premises, but only 38% use supplies that are available when needed. In Haiti, by contrast, most people (64%) have water available when needed, but very few (8%) have supplies accessible on premises. Accessibility on premises is similar in Uganda (17%) and Sierra Leone (16%), but 62% of the population of Uganda use improved sources free

from contamination, compared with just 11% in Sierra Leone. Sao Tome and Principe is the only country with less than 50% of supplies accessible on premises to achieve >80% free from contamination.

While drinking water service levels vary widely between regions, there have been improvements in most regions over the first five years of the SDG period (Figure 35). In 2020, 77% of the world's population (6 billion people) used improved sources accessible on premises, rising from 74% (5.5 billion) in 2015. During this period, accessibility of drinking water increased in all SDG regions, but Central and Southern Asia and Eastern and South-Eastern Asia were the only regions to increase coverage by more than 5 % pts. Between 2015 and 2020, global coverage



of water available when needed remained steady at 78%, but due to population growth the number of people with water available when needed increased from 5.8 billion to 6.1 billion. Five out of eight SDG regions have improved the availability of drinking water, with sub-Saharan Africa recording the biggest increase (4.4 % pts). But availability decreased slightly in Latin America and the Caribbean and Australia and New Zealand and fell by 3 % pts in Central and Southern Asia. Globally, 75% of the population (5.8 billion) used improved water free from contamination by 2020, rising from 70% (5.2 billion) in 2015. Estimates were only available for five SDG regions, with Central and Southern Asia recording the biggest increase, from 61% in 2015 to 68% in 2020 (6.2 % pts).

### BOX 1 DRINKING WATER QUALITY

Brazil is one of the few countries that routinely publish disaggregated data, enabling in-depth analysis of sub-national inequalities in drinking water quality. The left-hand side of Figure 36 shows that 86% of the population of Brazil used improved sources free from contamination in 2020 and that drinking water quality is higher in urban (88%) than in rural (72%) areas. The right-hand side provides a more detailed sub-national breakdown, using data extracted from the Ministry of Health's Water Quality Surveillance Information System for Human Consumption (SISAGUA)<sup>19</sup> in 2020.

The SISAGUA database includes more than 2 million monthly observations during 2020, of which, 20% were routine presence/absence tests for E. coli. Data are available for 26 administrative units in five geographic regions and water quality data can be further disaggregated by the type of water supply system and the location in which the sample was taken. The list of places tested includes residential (house,

<sup>19</sup> Brazil Ministry of Health, Sistema de Informações de Vigilância da Qualidade da Água para Consumo Humano, 2014-2020 <http://sisagua.saude.gov.br/sisagua/ paginaExterna.jsf>

housing, condominium, group of houses); camps; educational buildings; institutional: health; institutional: custodial & penal (asylum/nursing home, jail/prison, nursery, orphanage); transport hubs (airport, harbor, train and bus stations); assembly buildings (club, religious temple/space, gym); mercantile buildings; industrial buildings; open spaces (park, plaza/square, cemetery); and other non-residential places.

In 2020, the proportion of drinking water samples free from contamination ranged from 85% (Pará in North) to 100% (São Paulo in Southeast). While almost all the samples (97%) from mains water supply systems were free from contamination, compliance was lower in collective (84%) and individual (83%) systems. Among the places tested, the lowest water quality was observed in camps (90%), followed by public spaces (93%). The highest water quality (98%) was observed in custodial, penal and health institutions. As the SISAGUA database includes data for every year since 2014, it is also possible to assess changes over time.

In 2020, the JMP published a thematic report presenting key findings and lessons learned from the experience of integrating water testing in 33 national household surveys around the world. These surveys show that exposure to faecal contamination through drinking water is widespread, and in. In some low and middle-income countries large numbers of people use sources with a very high risk of contamination (Figure 37). In six countries (Sierra Leone, Chad, Ethiopia, Kiribati, Lao People's Democratic Republic and Madagascar) less than 20% of the population used sources free from contamination, and in four countries (Sierra Leone, Chad, Madagascar and Nigeria) more than 40% used sources with a very high risk of contamination.

e and Principe (2019)

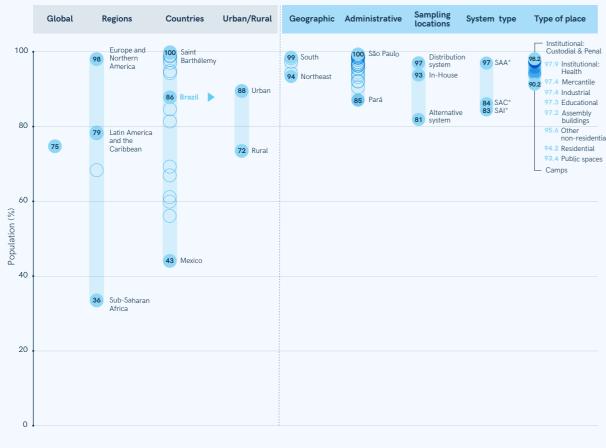
Georgia (2018)

Lesotho (2018)

Paraguay (2016



### Water quality testing in household surveys reveals high levels of faecal contamination in many countries

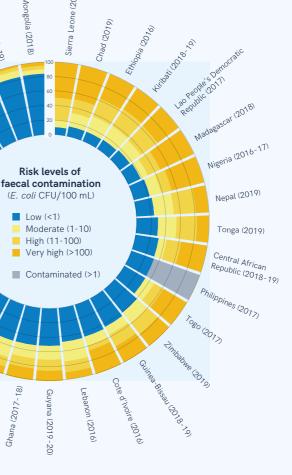


In Brazil, disaggregated data enable in-depth analysis of inequalities in drinking water quality

\*SAA: Water Supply System / SAC: Collective Alternative System / SAI: Individual Alternative System

FIGURE 36 Inequalities in the use of improved drinking water sources free from contamination, Brazil, 2020 (%)

FIGURE 37 Population using drinking water sources by risk of faecal contamination, selected surveys, 2014-2020 (%)



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## **Basic drinking water services**

By 2020, 84 countries had already achieved universal access (>99%) to at least basic drinking water services

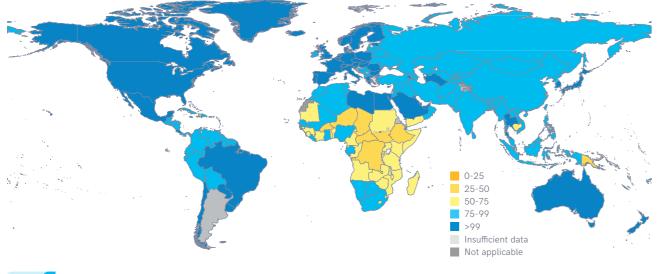
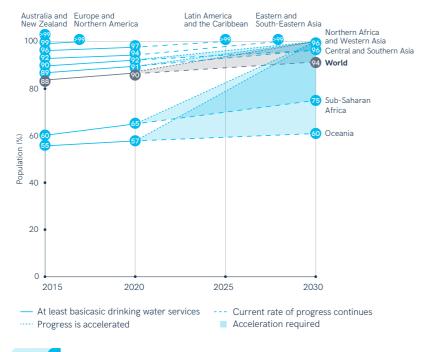


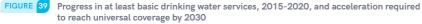
FIGURE 38 Proportion of the population using at least basic drinking water services, 2020 (%)

In 2020, 90% of the world's population (7 billion people) used at least basic drinking water services, rising from 88% in 2015. Over the first five years of the SDG period, urban coverage has remained unchanged at 96% while rural coverage has increased from 79% to 82%. By 2020, 84 countries had already achieved universal access (>99%) to at least basic drinking water services (compared with 77 countries in 2015). Eight out of nine countries that still had less than 50% coverage were in sub-Saharan Africa (Figure 38).

If current trends continue, the world will reach 94% coverage by 2030, falling short of universal access. Figure 39 shows that only four out of eight SDG regions are on track to achieve >99% coverage by 2030. Australia and New Zealand had already reached >99% by 2015 and Europe and Northern America passed the threshold in 2018. At current rates of progress, Latin America and the Caribbean and Eastern and South-Eastern Asia will achieve universal access in 2025 and 2028 respectively, but Northern Africa and Western Asia

Four out of eight SDG regions are on track to achieve universal access (>99%) to at least basic drinking water services by 2030





and Central and Southern Asia will only reach 96% by 2030. The most off-track regions are sub-Saharan Africa and Oceania. Since 2000, sub-Saharan Africa has increased coverage by 0.99 percentage points per year (% pts/yr), three times

faster than Oceania (0.31 % pts/yr). Achieving universal coverage of at least basic drinking water services by 2030 requires a 4x increase in current rates of progress in sub-Saharan Africa and a 14x increase in Oceania.

Coverage of at least basic drinking water services has increased in all SDG regions, but progress has varied widely between countries (Figure 40). Countries recording the most significant improvements mostly had <75% coverage in 2015, and countries that had already achieved >90% coverage by 2015 have generally progressed more slowly. However, some countries

with similar starting points have fared very differently. In 2015, 51% of the population in Mozambique and 42% of the population of the Central African Republic used at least basic drinking water services, but while coverage in Mozambique has increased by 12 % pts, coverage in the Central African Republic has decreased by 5 % pts.

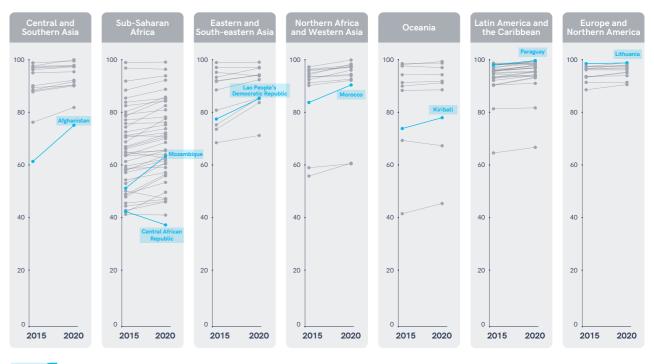


FIGURE 40 Proportion of the population using at least basic drinking water services, by country and SDG region, 2015-2020 (%)

### Urban coverage of at least basic drinking water services is higher but the rate of change in rural areas is faster

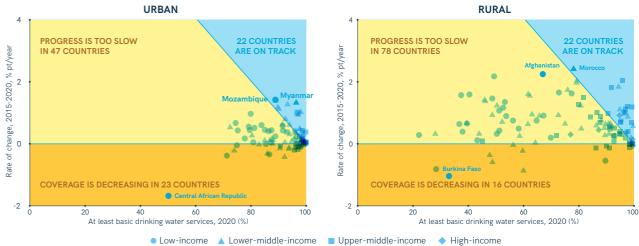


FIGURE 41 Progress in at least basic drinking water services, 2000-2020, among countries with <99% coverage in 2020 in urban (n=92) and rural (n=116) areas, by income

Notes: A) Urban: Includes 92 countries with at least 1% lacking basic drinking water services in 2020. Does not include 80 countries that already had >99% basic drinking water services in 2020. Does not include 3 countries that have estimates for 2020 but not 2000. B) Rural: Includes 116 countries with at least 1% lacking basic drinking water services in 2020. Does not include 43 countries that already had >99% basic drinking water services in 2020. Does not include 5 countries that have estimates for 2020 but not 2000.

Among countries with <99% in 2020, coverage of at least basic services was higher in urban areas but rates of change were faster in rural (Figure 41). Mozambique and Morocco recorded the fastest rates of progress in urban and rural areas respectively but most countries were progressing too slowly to achieve universal access by 2030.





## Leaving no one behind

Significant inequalities persist between and within countries (Figure 42). In 2020, nine out of ten people worldwide used at least basic drinking water services, but regional coverage varied from 100% in Australia and New Zealand to just 57% in Oceania and 65% in sub-Saharan Africa. Within sub-Saharan Africa, national coverage ranged from just 38% in the Central African Republic to universal (>99%) coverage in Réunion, but there were also significant disparities within countries. For example, the Uganda 2019 Malaria Indicator Survey revealed a 31% pt gap in coverage between urban (79%) and rural (48%) areas, a 36% pt gap between the richest (80%) and poorest (44%), and a 59% pt gap between the capital Kampala (97%) and Karamoja region (38%).

The JMP database on inequalities now includes estimates for more than 100 countries disaggregated by wealth quintile and sub-national region. While the number of subnational regions varies widely, different patterns of inequality can be seen in countries with disaggregated data available. In some countries (Egypt, Jordan, Costa Rica), almost all sub-national regions are approaching universal coverage (>99%) of basic drinking water services, while in others there are large disparities in coverage (Figure 43). For example, Panama, Afghanistan and United Republic of Tanzania all have gaps in coverage between the highest and lowest region of more than 50 % pts. In Ukraine, Guyana and Senegal, basic water coverage in one or two regions lags far behind other parts of the country.



### Coverage of basic drinking water services varies widely between and within countries

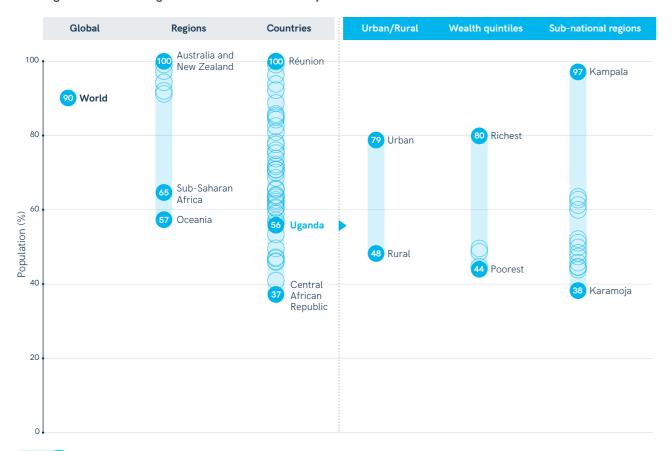


FIGURE 42 Inequalities in the use of at least basic drinking water services, Uganda, 2019 (%)

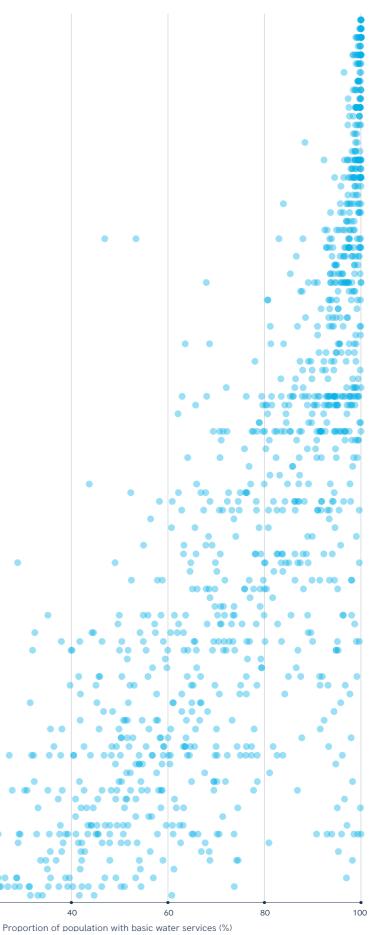
Note: Wealth quintiles and sub-national inequalities from Uganda 2018-2019 Malaria Indicator Survey

### Disaggregated data reveal significant inequalities between sub-national regions

Egypt (2015) Turkmenistan (2019) Armenia (2016) Barbados (2012) Jordan (2018 Maldives (2017) Uruguay (2013) Belarus (2012) Costa Rica (2018 Thailand (2019 occupied Palestinian territory (2020) Trinidad and Tobago (2011) Tonga (2019) Montenegro (2018) Bosnia and Herzegovina (2012) Ukraine (2012) Iraq (2018) North Macedonia (2019) Kazakhstan (2015 Mexico (2015 Serbia (2019 Suriname (2018) Bangladesh (2019) Turkev (2013) Dominican Republic (2014) Panama (2013) Cuba (2019 Albania (2018) Belize (2016) Georgia (2018) Bhutan (2010) Tunisia (2018) Guatemala (2015 El Salvador (2014 Nepal (2019 Paraguay (2016) Jamaica (2011) Guyana (2020) Algeria (2019) Bolivia (Plurinational State of) (2016 Colombia (2015) Viet Nam (2014) Kyrgyzstan (2018) India (2016) Peru (2016) Pakistan (2018 Gambia (2020) Indonesia (2017) South Africa (2016) Sao Tome and Principe (2019) Azerbaijan (2006) Republic of Moldova (2012 Comoros (2012 Ghana (2019) Gabon (2012) Cambodia (2014) Lao People's Democratic Republic (2017 Nicaragua (2011) Mongolia (2018) Tajikistan (2017) Kiribati (2019) Myanmar (2016) Senegal (2019 Lesotho (2018 Namibia (2013 Timor-Leste (2016) Malawi (2017) Liberia (2020) Somalia (2017 Côte d'Ivoire (2016 Congo (2015 Yemen (2013) Sudan (2014) Eswatini (2014) Nigeria (2018) Mauritania (2015) Cameroon (2019) Kenya (2015) Mali (2018 Togo (2017 Haiti (2017) Zambia (2018) Zimbabwe (2019) Burundi (2017) Afghanistan (2017) Guinea (2018) Rwanda (2017 Benin (2018 Angola (2016 Guinea-Bissau (2019) Mozambique (2018) Sierra Leone (2019) Uganda (2019 United Republic of Tanzania (2017 Burkina Faso (2018 Niger (2012) Ethiopia (2016 Papua New Guinea (2018 Democratic Republic of the Congo (2018 Madagascar (2018 Central African Republic (2019 0

FIGURE 43 Inequalities in the proportion of the population with basic drinking water services, by sub-national region, 2010-2020 (%)

20



Another way of visualising inequalities is by calculating the ratio of service coverage between advantaged and disadvantaged groups. A ratio of 1 indicates equal coverage, but ratios greater than 1 indicate that coverage is higher in one group than the other. The higher the ratio, the larger the relative gap in coverage between the two groups. The ratio of basic drinking water coverage between the richest and poorest wealth quintile is generally greater in rural than urban areas (Figure 44). For example, in Papua New Guinea, the wealth guintile inequality ratio in rural areas is 3.7, compared with 1.9 in urban areas. But in Madagascar, inequalities are greater in urban (4.9) than rural (3.5) areas. At the national level, the largest inequality ratios are found in the Democratic Republic of Congo, where basic drinking water coverage among the richest is almost 5 times greater than coverage among the poorest.

Between 2000 and 2020, the number of people who still lacked even basic drinking water services was reduced by a third, from 1123 million to 771 million. The number of people without basic services decreased in all SDG regions except sub-Saharan Africa. Eastern and South-Eastern Asia achieved a two-thirds reduction, from 379 million to 133 million people, while in sub-Saharan Africa, the population without basic services increased from 350 million to 387 million. This means sub-Saharan Africa accounted for half of the global population without basic drinking water services in 2020. Eight out of ten (614 million) of those in sub-Saharan Africa without basic drinking water services in 2020 lived in rural areas, and nearly half (351 million) lived in the LDCs.

Coverage of at least basic drinking water services varies widely between and within countries

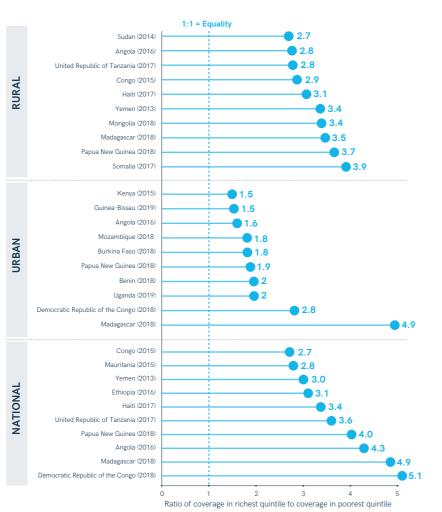
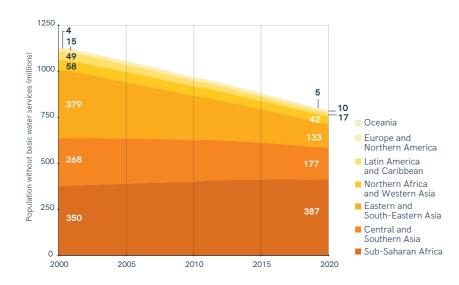


FIGURE 44 Ratio of basic drinking water coverage in richest to poorest wealth quintiles, selected surveys, 2014-2019



Sub-Saharan Africa now accounts for half of the global population without basic drinking water services

FIGURE 45 Population without basic drinking water services, by SDG region, 2000-2020 (millions)



Between 2015 and 2020, the number of countries where at least 1% of the population still relied on collecting surface water directly from rivers, lakes and ponds decreased from 81 to 66. Most of these countries (36) are now concentrated in sub-Saharan Africa, but there are still cases in five other SDG regions (Figure 46). The largest reductions in each SDG region were recorded by Ethiopia, Papua New Guinea, Lao People's Democratic Republic, Tajikistan, Azerbaijan and Suriname. Still, there were several countries in which the proportion

### Many countries reduced the use of surface water between 2015 and 2020

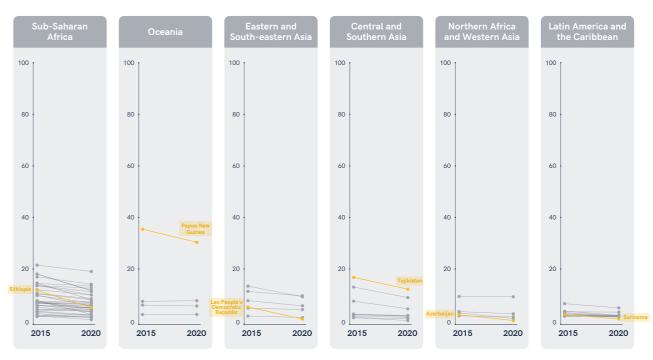


FIGURE 46 Population using surface water, by country and SDG region, 2015-2020 (%)

of the population using surface water did not change, and in eight countries it increased. If current rates of change continue, just 29 out of 66 countries where at least 1% had no service in 2020 are on track to eliminate the use of surface water by 2030.

### BOX 2 WATER SECURITY FOR ALL

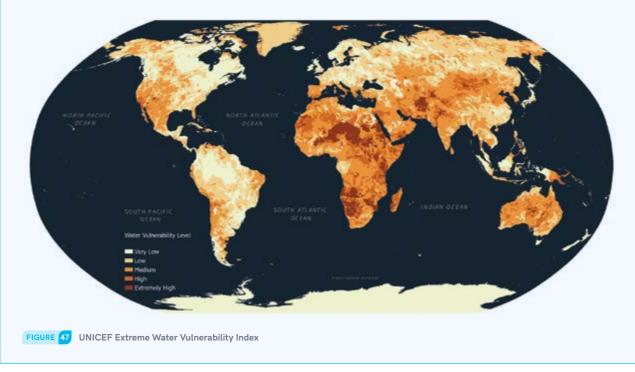
In 2021, UNICEF launched a campaign to 'Reimagine WASH and to assure water security for all'. The goal is, by 2025, to reach 450 million children and their families (more than 1.4 billion people) living in areas of high or extremely high water vulnerability with water security solutions. And, by 2030, for all children have access to a safe and affordable water supply and live in water secure communities.

To support this effort, UNICEF developed an Extreme Water Vulnerability Index. It combined data from the World Resources Institute (WRI) and the United Nations Environment Programme (UNEP) on physical water scarcity risks (water stress, interannual variability, seasonal variability, groundwater table decline, and drought events) with data from the JMP on drinking water service levels (surface water, unimproved, limited, at least basic). Combined scores were calculated for polygons corresponding to hydrological boundaries, and the frequency distribution was analysed to determine thresholds for water vulnerability (Natural Breaks). The Gridded Population of the World version 4 (GPWv4) was then used to overlay the latest population density data and calculate the total population living in areas with high and extremely high vulnerability.

It is estimated that worldwide over 1.4 billion people lived in areas of high (1 billion) or extremely high (489 million) water vulnerability in 2020. A further 3.0 billion were classed as medium vulnerability and the remaining 3.1 billion were classed as low (2.0 billion) low and very low (1.1 billion) vulnerability. Central and Southern Asia region had the highest number of people (765 million) and corresponded to almost 50 per cent of the total number of people living in areas of high or extremely high water vulnerability, followed by Sub-Saharan Africa and East/ South-eastern Asia regions, with 278 and 225 million respectively.

Further work is required to integrate datasets for populations, administrative and hydrological units at subnational levels and produce higher resolution maps of water vulnerability. Importantly, while the analysis focuses on vulnerability due to low levels of access, additional analysis is required to identify those who have water accessible on premises, but the availability and quality of water is not sufficient to deliver services consistently, or safely.

1.4 billion people lived in areas of high or extremely high water vulnerability in 2020

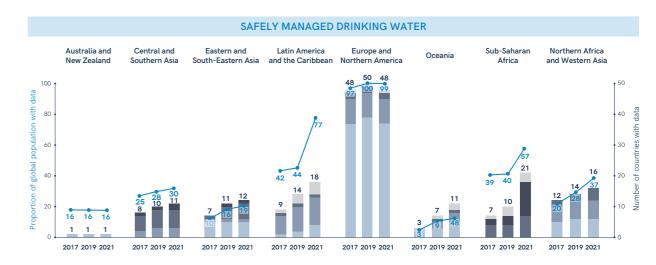


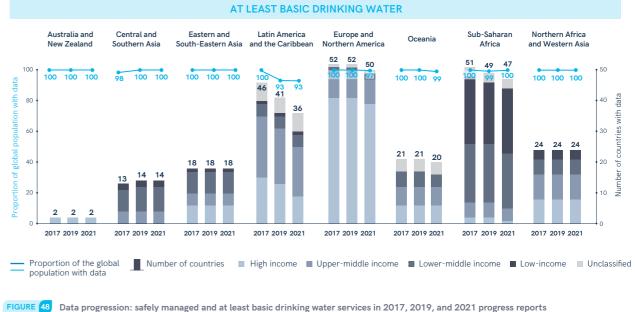
## Leaving no one behind

Global data coverage is much higher for basic drinking water services (210 countries, representing 99% of the population) than for safely managed drinking water (138 countries, representing 45% of the population), but the latter has improved steadily with each JMP progress update. Data coverage for basic services has remained high in most SDG regions, except for Latin America and the Caribbean, where the number of countries with estimates has fallen from 46 in the 2017 baseline report to 36 in the 2021 progress update (Figure 48). During the same period,

there has been a steady increase in data coverage for safely managed drinking water services. The number of countries with estimates has doubled in Latin America and the Caribbean, from 9 to 18, and tripled in sub-Saharan Africa, from 7 to 21. But in five out of eight SDG regions, estimates were only available for less than half of the regional population. In Oceania, data coverage has increased from 3 to 11 out of 21 countries, but these still only represent 11% of the regional population.

Data coverage for safely managed drinking water services has increased in seven out of eight regions









# **Sanitation services**

The JMP ladder for sanitation defines five service levels, ranging from open defecation to safely managed sanitation services, which is the principal sanitation indicator for SDG target 6.2 (Figure 49). The ladder builds upon and extends the MDG indicator of 'use of improved sanitation facilities', by including additional aspects of the quality of

service. If people share an improved facility with other households, they are counted as having a 'limited service'. Those that use an improved facility that is not shared are counted as having either a 'basic service' or, if the excreta are safely disposed of in situ or removed and treated off-site, a 'safely managed service'.

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 removed and treated offsite
BASIC	Use of improved facilities that are not shared with other households
LIMITED	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

### FIGURE 49 SDG ladder for sanitation services

Note: Improved facilities include flush/pour flush toilets connected to piped sewer systems, septic tanks or pit latrines; pit latrines with slabs (including ventilated pit latrines), and composting toilets.

Since households with safely managed services also meet the requirements for basic services, these two levels can be grouped together as 'at least a basic service', which is used in the monitoring of SDG target 1.4.

Households with sewer connections have 'safely managed services' if the sewer delivers wastewater to a treatment plant that provide secondary treatment or better<sup>20</sup>. Households with improved facilities that store and treat excreta on-site (for example, in septic tanks and improved pit latrines, or in decentralized wastewater treatment systems) have safely managed services if the on-site storage facilities effectively separate excreta from users and the surface environment (containment) and the excreta are either removed and treated off-site in facilities designed to receive faecal sludge (emptied and treated), or treated and then buried locally (disposed of in situ). Households are also classified as having safely managed services if their onsite storage facilities effectively separate excreta from the surface environment and have never been emptied (disposed of in situ).

Between 2000 and 2020, the world population increased by 1.7 billion people, but 2.4 billion people gained access to safely managed sanitation services. Still, in 2020 3.6 billion people lacked safely managed services, of which approximately half (1.9 billion) had basic services. Among the 1.7 billion people lacking even basic services, 580 million had limited services, 616 million used unimproved facilities, and 494 million practised open defecation (Figure 50).

 <sup>20</sup> Wastewater discharged through long ocean outfalls after primary treatment is also counted as safely managed.

## managed sanitation services

Open defecation Unimproved Limited Basic Safely managed

1.1 billion 17%

1.3 billion 21%

1.7 billion 27%

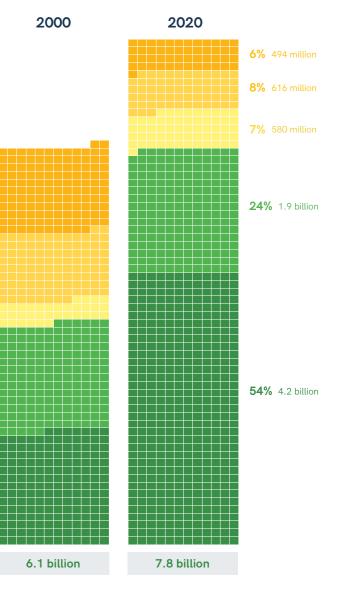
345 million 6%

1.8 billion 29%

FIGURE 50



Between 2000 and 2020, 2.4 billion people gained access to safely



Global population using different levels of sanitation services, 2000 and 2020 (each unit represents 10 million people)



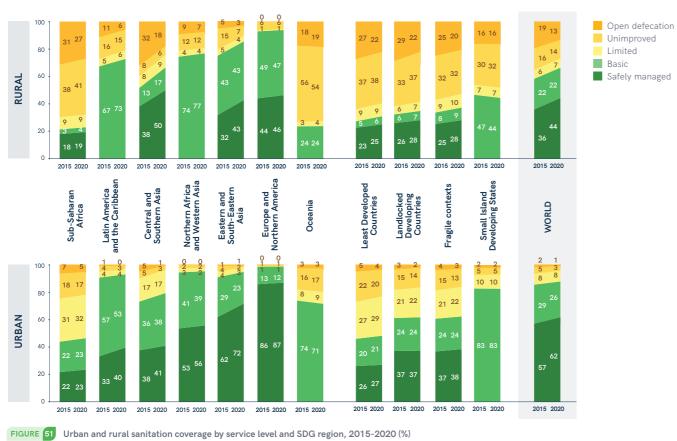
Services levels in 2020 could be disaggregated by urban and rural areas for all SDG regions except Australia and New Zealand, though no rural estimates were available for safely managed sanitation services in Latin America and the Caribbean or for Northern Africa and Western Asia (Figure 51).

## Safely managed sanitation services

In 2020, 120 countries, representing 81% of the global population, had estimates for safely managed sanitation services. Eight countries had already reached universal (>99%) coverage, but in 48 countries, less than half of the population had safely managed services (Figure 52). Globally, access to safely managed sanitation services has increased over the 2000 to 2020 period<sup>21</sup> by an average of 1.27 percentage points per year (% pts/yr).

<sup>21</sup> In this report, with a focus on 'five years into the SDGs' many figures focus on the progression from 2015-2020, although the JMP produces estimates of annual rates of change using all available data points for the entire reference period, 2000-2020.

## Safely managed and basic sanitation coverage is higher, but rates of progress lower, in most urban areas



### Coverage of safely managed sanitation services varied widely between countries in 2020



50 WHO | UNICEF JMP

FIGURE 52 Coverage of safely managed sanitation services varied widely between countries in 2020

PROGRESS ON HOUSEHOLD DRINKING WATER, SANITATION AND HYGIENE 2000-2020

Global coverage has increased from 47% in 2015 to 54% in 2020 but at current rates of progress the 100 world will only reach 67% coverage by 2030, leaving 2.8 billion people without safely managed services (Figure 53). Progress rates are € 60

highest in Eastern and South-Eastern Asia (1.97 % pts/yr) and Central and Southern Asia (1.68 % pts/yr), but no region is on track to achieve universal coverage by 2030.

Only eight countries are on track to reach universal coverage with safely managed sanitation by 2030 (Figure 54), all of which are high-income countries<sup>22</sup>. China, an upper-middleincome country, has shown the greatest rate of progress (2.82% pts/ yr) and is nearly on track for universal coverage, while Slovenia and Lesotho have achieved the fastest progress among high-income and lowermiddle-income countries (2.34 and 2.03% pts/yr, respectively).

Either sewered sanitation or non-sewered (on-site) sanitation technologies can be safely managed, but the information needed for classification is different. Households with sewered sanitation are considered to have safely managed services if the blackwater<sup>23</sup> flushed out of the household is transported to an off-site treatment plant where it receives secondary or higher-level<sup>24</sup> treatment (or primary treatment<sup>25</sup> with effluent discharged through a long ocean outfall). Households using toilets or improved latrines connected to on-site storage/ treatment in septic tanks or pits

<sup>22</sup> Using the World Bank's classification by income, updated in June 2020. http://databank.worldbank.org/ data/download/site-content/CLASS.xls

<sup>25</sup> Primary treatment is a mechanical, physical or chemical process involving settlement of suspended solids or any other process in which the BOD of the incoming water is reduced by at least 20% before discharge, and the total suspended solids of the incoming water are reduced by at least 50%.

### No SDG region is on track to achieve universal access to safely managed sanitation services by 2030

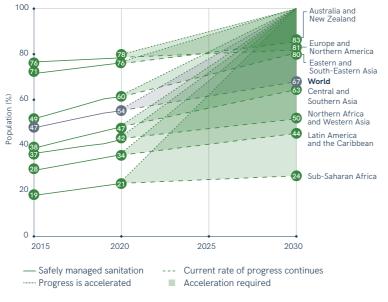








FIGURE 54 Progress towards universal access to safely managed sanitation 2015-2020, among countries with <99% coverage in 2020, by income

Note: Does not include eight countries that already had universal (>99%) coverage in 2020, or three countries that have estimates for 2020 but not for 2000.

are classified as having a safely

from users and the environment

(containment), and the excreta are

either removed and treated off-site,

or remain stored and are considered

treated and disposed of in situ. In

2020, 34% of the global population

managed service when the pit/tank

contents effectively separate excreta

had safely managed sanitation through sewer connections, while 20% had safely managed on-site sanitation facilities (including septic tanks and improved latrines) that were treated and disposed of in situ. There were insufficient data to estimate the global population with excreta removed and treated off-site.



<sup>&</sup>lt;sup>23</sup> Blackwater is a mixture of urine, faeces and flushwate along with anal cleaning water (if water is used for cleansing) and/or dry cleansing materials <sup>24</sup> Secondary treatment is a process that follows primary treatment of water and generally involves biological or other treatment with a secondary settlement or other ocess that results in a biochemical oxygen demand (BOD) removal of at least 70% and a chemical oxygen demand (COD) removal of at least 75%. Tertiary treatment is a process that follows secondary treatment and removes nitrogen, phosphorous or any other pollutant, such as microbiological pollution or colour, that affects the quality or a specific use of water.

Since 2000, the population with sewer connections has been increasing at an average of 0.51 percentage points per year (% pts/yr), but growth in on-site systems has been faster, at 0.46 and 0.25 % pts/yr for septic tanks and improved latrines, respectively. In 2020, for the first time, more people used on-site sanitation technologies than sewer connections, with the change driven by strong growth in on-site sanitation in rural areas (Figure 55). This signals a need for strengthening systems for monitoring safe management of on-site sanitation systems, and for investing in formal services for emptying, removal, and treatment of faecal sludge.

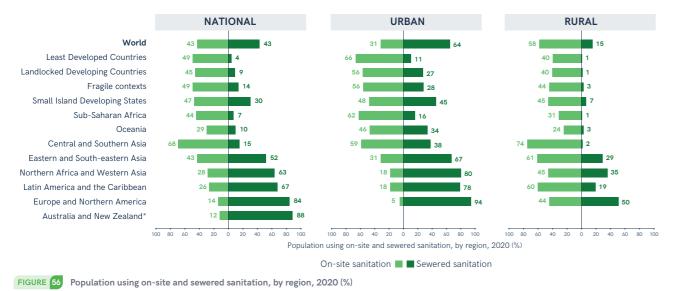
Two out of five people globally (43%), two thirds of those in urban areas (64%) and one in seven people in rural areas (15%) report having sewer connections, but there are large regional variations (Figure 56). In urban areas, twice as many people have sewer connections than use on-site sanitation facilities (64% and 31% in 2020, respectively). However, in Central and Southern Asia, Oceania, and sub-Saharan Africa on-site sanitation is more common than sewer connections even in urban settings. On-site sanitation in urban areas has been increasing (septic tanks and pit latrines at rates of 0.24 and 0.06

% pts/yr, respectively) at twice the rate of sewer connections (0.14 % pts/yr), and includes communal decentralized wastewater treatment systems, for instance serving blocks of apartment buildings, as well as individual septic tanks and improved latrines. In rural areas on-site sanitation is more prevalent than sewer connections in all regions except Europe and Northern America, and growth in septic tanks and improved latrine coverage (0.68 and 0.63 % pts/yr, respectively) is faster than growth in sewer connections (0.40 % pts/yr).





The distribution of on-site and sewered sanitation varies widely by region and location



\*Disaggregated data unavailable for urban and rural areas



Data on off-site wastewater treatment were available for 103 countries, representing 92% of the global population with sewer connections. Globally, four out of five people with sewer connections (82%) are estimated to be connected with plants providing at least secondary treatment. However, this value varies widely between and within SDG regions (Figure 57). For example, in Europe and Northern America,

22 countries had universal (>99%) wastewater treatment, but in Albania, Bermuda, North Macedonia and Serbia less than 50% of sewered wastewater received secondary or better treatment. In Northern Africa and Western Asia, nine countries had universal wastewater treatment, but in Algeria, Lebanon and Libya less than 20% of sewered wastewater was treated. Globally, 594 million people have sewer connections that don't

### Wastewater treatment varies widely within SDG regions

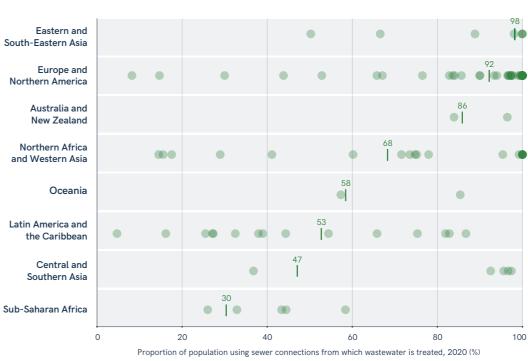
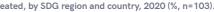


FIGURE 57 Population using sewer connections from which wastewater was treated, by SDG region and country, 2020 (%, n=103).

SANITATION SERVICES

receive sufficient treatment to count as a safely managed service. Many more are connected to wastewater treatment plants that do not provide effective treatment or comply with effluent requirements<sup>26</sup>.

Since 2010 more people have reportedly been using septic tanks than improved latrines, although latrines still dominate in rural areas (Figure 55). However, many so-called 'septic tanks' don't meet the technical definition of an impermeable septic tank with leachfield, and might be better called a 'cesspool' (a permeable pit without a separate leachfield, similar to a latrine pit but receiving more liquid). Household survey respondents and enumerators often lack the technical knowledge or training to accurately classify on-site sanitation technologies, and many existing survey questionnaires have limited response options.



• Countries Regional average

Note: Regional values are weighted averages of countries with data in the region; in sub-Saharan Africa the data cover less than 50% of the regional population

<sup>&</sup>lt;sup>26</sup> The definition of SDG indicator 6.2.1a 'proportion of population with safely managed sanitation services' does not include compliance with effluent standards, but this is covered by the household portion of SDG indicator 6.3.1 'proportion of domestic and industrial wastewater safely treated'

BOX 3 THE CHALLENGE OF MONITORING SAFE MANAGEMENT OF ON-SITE SANITATION

On-site sanitation technologies can be counted as safely managed, if they are improved, not shared, and prevent unsafe exposures along the sanitation chain, from containment to treatment and discharge. On-site storage containers that receive excreta and wastewater, like tanks and pits, are counted as 'containing' waste if they prevent the discharge of wastewater to the surface environment. On-site tanks and pits can be assessed for containment through household surveys and technical inspections, and, in some cases, administrative records can be used to classify tanks and pits as 'contained' or 'not contained' (Table 2). Inspections typically focus on compliance with construction standards and whether facilities are functioning properly or presenting a risk to human health. Further work is needed to harmonize the definitions used in national data sources to enable comparison between countries.

Improved pit latrines receive relatively little liquid inputs, and are designed to allow these liquids to infiltrate directly into the surrounding soil through the permeable sides and/ or floor of the pit, while the solid fraction slowly settles and decomposes through biodegradation. Inspections can identify pit latrines that are overflowing or leaking waste directly into the surface environment, and classify these as not contained and therefore not safely managed.

Septic tanks and cesspools receive much larger volumes of liquid inputs, including blackwater and, in some cases, greywater (wastewater generated by households but not from toilets). Septic tanks are usually impermeable, while cesspools have permeable walls or bottoms to allow liquid infiltration. Well designed and operated septic tanks and cesspools retain most of the solid fraction of wastewater, allowing the liquid fraction to either infiltrate directly into the subsurface or leave the containment through an overflow or effluent line. The solid fraction settles and decomposes over time, and well designed and operated septic tanks can be considered as equivalent to primary treatment (that is, reducing suspended solids by at least 50%, and biochemical oxygen demand (BOD) by at least 20%).

If the liquid or solid fraction overflows from a pit latrine, septic tank or cesspool, or is discharged directly to the surface environment through an effluent line, the wastewater is classified as not contained, and therefore not safely managed. A large number of so-called septic tanks in low- and middleincome countries have overflow lines that connect directly to open drains or water bodies, and household surveys and inspections can identify these as unsafe discharges. For this reason, the JMP applies an assumption of 50% containment for countries that have no data on containment of septic tanks. When the liquid fraction leaving the septic tank through an effluent line connects an infiltration system (for example, a soakaway pit or leachfield), much of the remaining suspended solids, as well as dissolved organic carbon, is removed through biodegradation and adsorption onto soil particles; this can be considered as equivalent to secondary treatment (BOD is typically reduced during infiltration by more than 70%), and therefore counted as safely managed.

If pit latrines or septic tanks have good containment, and have not yet been emptied, the excreta are considered to be safely treated and disposed of in situ. If a pit latrine or septic tank is emptied and the contents are buried on-site, the waste is also considered to be safely treated and disposed of in situ.



Measures of containment, storage and on-site treatment va

Country	Source	Year(s)	Measurement of con
Survey/Census			
Canada	Households and the Environment Survey	2013, 2015	"No problems last time p
Nigeria	Water, Sanitation and Hygiene National Outcome Routine Mapping	2019	"No leaks or overflow"
Philippines	Annual Poverty Indicators Survey	2019, 2020	Septic outlet connects to
USA	American Housing Survey	2013-2019	Households with septic t months
Bosnia and Herzegovina	Census	2013	On-site facilities classed
Ecuador	Encuesta Nacional de Empleo, Desempleo y Subempleo	2016, 2017, 2019	"Los desechos del pozo s (río, quebrada, acequia, "Waste from the septic t ditch, street, patio, land,
Ethiopia, Ghana, Honduras, Kenya, Malawi, Mali, Mozambique, Niger, Rwanda, Uganda, Zambia	World Vision survey	2017	"Closest sanitation is not
Senegal	Programme Eau Potable et Assainissement	2017	[fosses septiques ou latr. pleines de sorte qu'elles ciel ouvert, une masse d fosses de décantation ou "Septic tanks or improve they leak and/or flow inte than into soakpits or sew
South Africa	General Household Survey	2016-2018	"During the past 6 month problems with regard to Responses: any of "Toilet blocked up" "Toilet pit or chamber fu "Toilet not enclosed well "Toilet system overflowin
Inspection			
France	Observatoire des services publics d'eau et d'assanissement	2013-2017	Annual inspections check with regulations, and dor environment.
Japan	Septic Tank Inspection Results	2013-2019	Annual inspections using as "appropriate", "mostly systems are considered a
Ireland	Domestic Waste Water Treatment Systems National Inspection Plan	2014-2019	Annual inspection by put "risks to human health o regulations.
Administrative			
Austria, Latvia, Slovenia, Sweden	Eurostat	2013-2018	Proportion of independe secondary treatment
Germany	Federal Statistics Office	2013, 2016	The sum of the populati sewage treatment plant a system with other decen no public sewerage syste

ary widely between countries	
tainment	Classification
pumped, maintained or inspected"	Contained
	Contained
o sewer lines or soakage pit	Contained
anks that report no breakdowns in the last three	Contained
as "closed septic tank with overflow"	Not contained
séptico/pozo ciego terminan en algún lugar abierto , calle, patio, terreno, campo abierto)″	
ank/cesspool end up in an open place (river, stream, , open field)"	Not contained
t full, overflowing, or leaking"	Not contained
rines à fosse amélioréel "endommagées ou trop fuient et/ou se déversent dans des canalisations à d'eau ou en terrain découvert plutôt que dans des u le réseau d'égouts" ed pit latrines are damaged or overloaded so that	Not contained
o open drains, water bodies or open ground rather ver lines"	
hs, have you experienced any of the following the toilet facility usually used by this household?" ull" I or structure damaged" ng in yard"	Not contained
k to see if non-collective systems are in conformity n't present a danger to public health or the	Contained
g a checklist with over 120 items, classify systems y appropriate" and "inappropriate". "Inappropriate" as not contained.	Contained
blic health inspectors check if on-site systems pose or the environment", with reference to relevant	Not contained
ent wastewater treatment plants with at least	Contained
on with no public sewerage system with small and 50% of the population with no public sewerage tralized disposal divided by the total population with em	Contained
endent treatment plants which require emptying, aving "direct discharges".	Not contained
age tanks and pits	

### Septic tanks and pit latrines are often not emptied, especially in rural areas

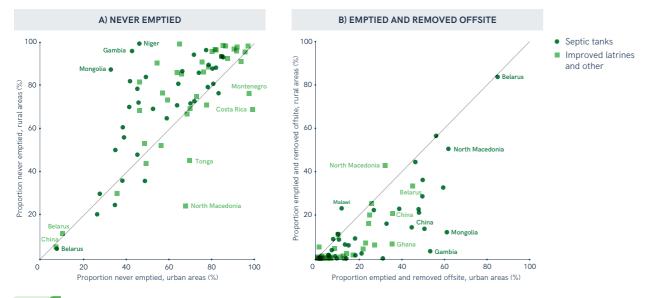


FIGURE 58 Proportion of septic tanks and improved latrines that have never been emptied (A) or have been emptied and waste removed off-site (B), in urban and rural areas, 2017-2020

In recent years new questions in household surveys have allowed many countries to collect nationally representative data on pit and tank emptying practices. Many survey respondents indicate that their pit latrine or septic tank has never been emptied; this is particularly common in rural areas (Figure 58A). Some survey respondents don't know if their on-site tanks have ever been emptied, especially in urban multi-unit dwellings and rental properties, where the survey respondents may not be responsible for emptying. Further work is needed to improve methodologies and tools for understanding emptying practices, and other aspects of safe management of on-site sanitation. Emptying and removal for off-site treatment is much more common for septic tanks and for urban areas (Figure 58B). Household survey respondents can't reliably indicate if faecal sludge is treated once it leaves the property; additional information is needed from administrative sources about the amount of faecal sludge that is collected and delivered to plants designed to treat faecal wastes. While such information may be available at the scale of individual municipalities, it is typically not aggregated at the national scale.

People in many SDG regions, in rural and urban areas, lack safely managed sanitation services

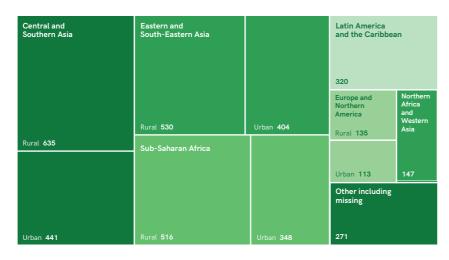


FIGURE 59 Population without safely managed sanitation services, by SDG region, 2020 (millions of people)

Note: Separate urban and rural estimates are not available for Northern Africa and Western Asia, or for Latin America and the Caribbea

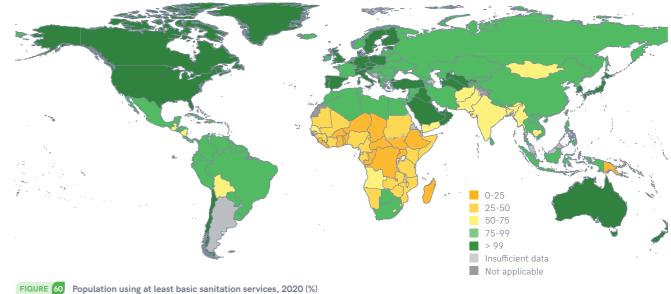
No nationally representative data are currently available about the proportion of faecal sludge that is actually treated after removal.

In the absence of information on off-site treatment of faecal sludge, in countries where sewer connections are more common than on-site sanitation facilities, the JMP assumes faecal sludge receives the same level of treatment as sewered wastewater; but in countries where

on-site sanitation is more prevalent, no estimate is made unless data are available on faecal sludge treatment. The 3.6 billion people lacking safely managed sanitation are spread around the globe, and nearly evenly divided between urban and rural areas (1.9 and 1.7 billion, respectively). Three SDG regions (Central and Southern Asia, Eastern and South-Eastern Asia, and sub-Saharan Africa) each account for roughly one billion people lacking safely managed sanitation (Figure 59).

## **Basic sanitation services**

### By 2020, 62 countries had achieved universal access (>99%) to at least basic sanitation services



In 2020 78% of the global population (6.1 billion people), had at least basic sanitation services. Two hundred and two countries had estimates for basic sanitation, including 62 countries that had already achieved universal (>99%) coverage (Figure 60). Since 2000, 2.7 billion people have gained access to basic sanitation, and the number of people lacking basic sanitation has decreased by one billion: from 2.7 billion in 2000 to 1.7 billion in 2020 (Figure 61).

Progress was most dramatic in Eastern and South-Eastern Asia, where the number of people lacking basic sanitation was cut by three guarters, and Central and Southern Asia where the number was cut in half. In sub-Saharan Africa and Oceania, the number of people lacking basic sanitation increased. In sub-Saharan Africa the proportion of the population with at least basic sanitation increased from 23% to 33% between 2000 and 2020, but the population grew by 73% over the same time period.







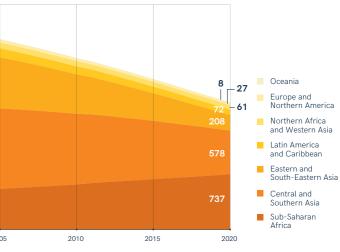
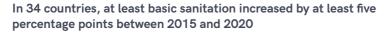


FIGURE 61 Population without basic sanitation services by SDG region, 2000-2020 (millions)



Achieving universal (>99%) coverage with at least basic sanitation services by 2030 would require doubling the historical rate of progress (1.13 percentage points per year [% pts/yr]). If historical rates of progress continue, the world will reach 90% coverage by 2030. Only the Eastern and South-Eastern Asia region (1.54 % pts/yr) is on track to achieve universal coverage by 2030 (Australia and New Zealand have already achieved universal coverage). 34 countries have seen consistent rates of progress in basic sanitation and have increased coverage by more than five % pts between 2015 and 2020 (Figure 62), including seven countries and territories where coverage has increased by at least ten % pts.

Considering historical rates of progress, only 21 of the 124 countries that haven't already achieved universal basic sanitation in urban areas are on track to do so by 2030; the situation is similar in rural areas (23 out of 131 countries on track) where coverage is lower but rates of progress are faster (1.13 % pts/yr in rural areas, compared with 0.43 % pts/yr in urban areas) (Figure 63). Cambodia, Lao People's Democratic Republic, Nepal, Tunisia and Viet Nam are notable as lower-middleincome countries that are on track for universal coverage in urban or rural areas. In a number of countries, in all income ranges, rural or more commonly urban coverage is actually decreasing.



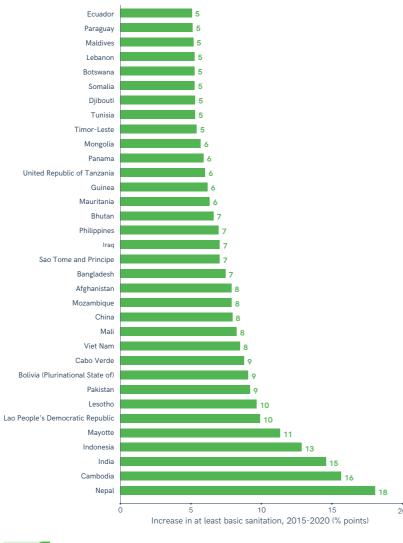


FIGURE 62 Countries with the greatest progress in increasing at least basic sanitation, 2015-2020

### Coverage of at least basic sanitation is higher in urban, but progress is faster in rural areas

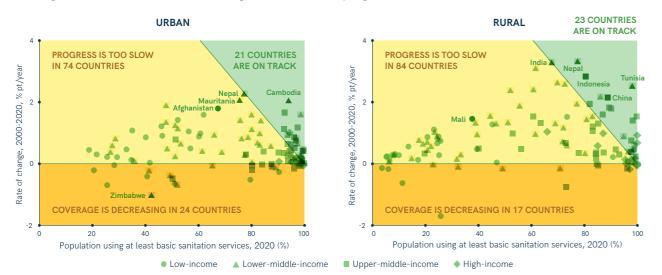
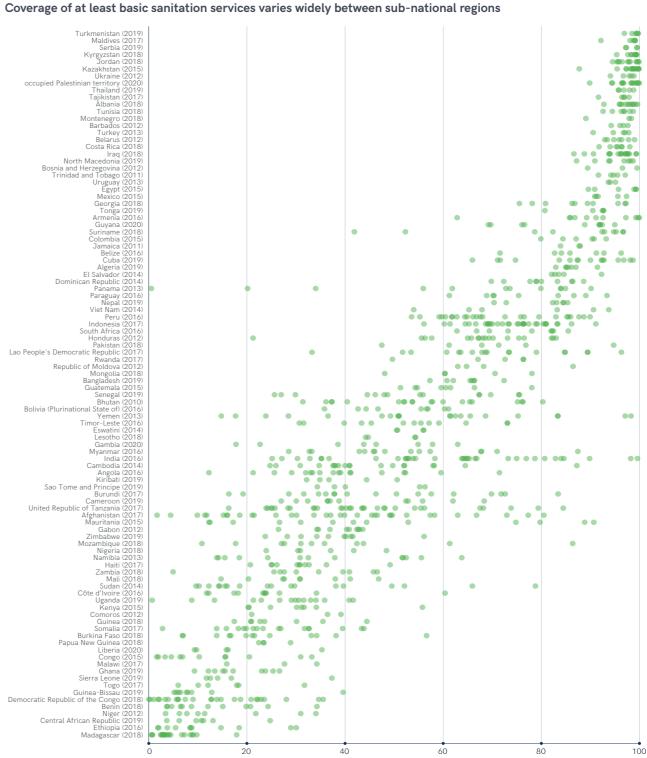


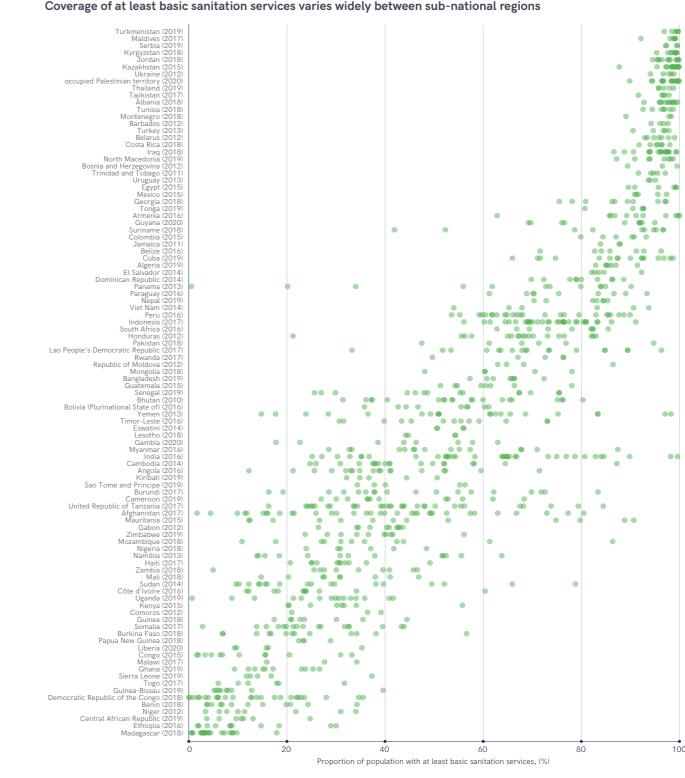
FIGURE 63 Progress in at least basic sanitation services, 2000-2020, among countries with <99% coverage in 2020 in urban (n=119) and rural (n=124) areas. Note: figure does not include countries that have estimates for 2020 but not for 2000: 5 for urban and 7 for rural settings

## Leaving no one behind

Basic sanitation coverage can vary widely by sub-national region within a country (Figure 64). In some countries (Honduras, Panama, Suriname), a few regions lag behind most, while in others (India,

Mozambique, Yemen), a few regions approach universal coverage while many have much lower coverage. In 15 countries, the gap between the highest and lowest regions was more than 50 % pts, and in Panama







and Yemen, the inter-regional gap was bigger than 80 % pts. Eswatini, Jamaica and Papua New Guinea all had relatively low inter-regional gaps (less than 10 % pts) even though the coverage in the highest region was below 90%.

FIGURE 64 Inequalities in the proportion of the population with at least basic sanitation services, by sub-national region 2010-2020 (%)



Wealth inequalities in at least basic sanitation are most pronounced in rural areas and at the national level

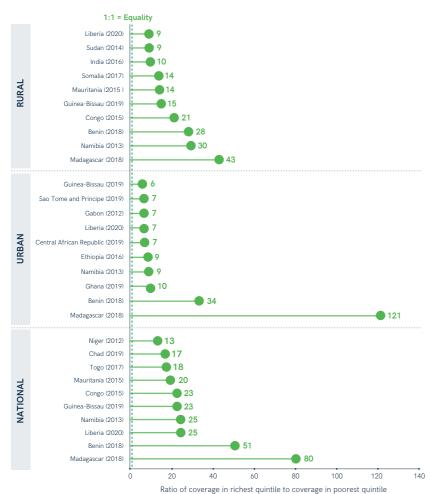


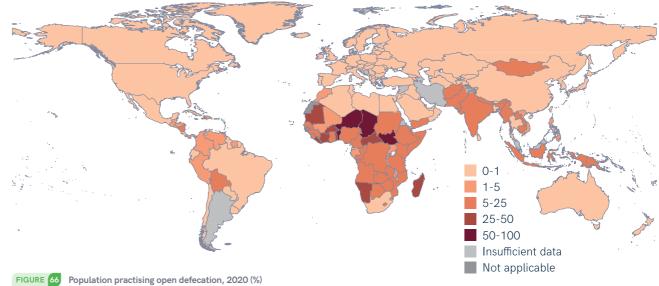
FIGURE 65 Wealth inequality ratios for at least basic sanitation services, selected countries, 2012-2020

If gaps between groups are **absolute** measures of inequalities, ratios between groups are **relative** measures. Figure 65 shows the ratio of basic sanitation coverage in the wealthiest quintile (20% of the population) compared with the poorest quintile. If coverage were the same in the two groups, the ratio would be one, shown by the dotted green line. These 'wealth inequality ratios' tend to be highest for the country as a whole since these ratios compare the wealthiest 20% (often living in urban areas) with the poorest 20% (often living in rural areas). Wealth inequality ratios are highest where the poorest have very low coverage, such as in Benin and Madagascar, where less than 2% of the poorest people in both urban and rural areas have basic sanitation. In urban areas of Madagascar, 45% of the richest but only 0.4% of the poorest people have at least basic sanitation services.

Among the 1.7 billion people without basic sanitation services in 2020, nearly a third (494 million) used no form of toilet and practised open defecation. In 55 countries at least 5% of the population still practised open defecation. Open defecation is most widespread in sub-Saharan Africa, but is also high in Central and

Southern Asia as well as Oceania (Figure 66). There is wide variability within sub-Saharan Africa: from Gambia, Mayotte, Réunion, Saint Helena, Seychelles and South Africa that have eliminated (<1%) open defecation to South Sudan, Chad and Niger where more than 60% of the population practised open defecation

In 55 countries, more than 5% of the population practised open defecation in 2020



### Open defecation varies widely between and within countries in sub-Saharan Africa

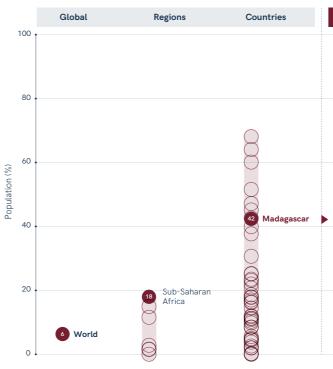


FIGURE 67 Inequalities in open defecation in Madagascar and sub-Saharan Africa, 2020 (%)

Note: Wealth quintiles and sub-national inequalities from the Madagascar 2018 MICS.

in 2020. Within Madagascar, in 2018 there was a 30 point gap between urban and rural areas, and 62 points separated the richest and poorest quintiles. In Ihorombe region, 85% practised open defecation while in Analamanga region, containing the capital Antananarivo, only 5% did (Figure 67).

Urban/Rural	Wealth quintiles	Sub-national regions
		-
		85 Ihorombe
		$\bigcirc$
	67 Poorest	
	$\bigcirc$	
54 Rural	$\bigcirc$	Q
	$\bigcirc$	8
	$\frown$	$\bigcirc$
24 Urban	$\bigcirc$	$\bigcirc$
	5 Richest	5 Analamanga
	•	• •

Assuming current rates of progress continue, the world and most SDG regions are on track to eliminate open defecation before 2030 (Figure 68). However, progress is slow in sub-Saharan Africa, and open defecation is increasing in Oceania. Within Oceania, Papua New Guinea is by far the country where open defecation is the most prevalent (practised by 1.4 million people, or 16% of the population), but the practice is also common in Kiribati (30%) and the Solomon Islands (45%). Eliminating open defecation in LDCs by 2030 will require a 2x acceleration in current rates of progress and will be especially challenging in fragile contexts where open defecation rates have decreased by just 3 % pts, from 16% in 2015 to 13% in 2020.

Globally, open defecation has been decreasing at an average rate of 0.76 percentage points per year (% pts/yr), but in a number of countries progress has been faster. In 17 countries, the rate is more than one % pt/year, and in five countries open defecation has been reduced by more than ten % pts in the last five years (Figure 69).

India is responsible for the largest drop in open defecation since 2015, in terms of absolute numbers. Within India, open defecation has been highly variable regionally since at least 2006, when the third round of the National Family Health Survey found open defecation to be practised by less than 10% of the population in four states and the Union Territory of Delhi, but by more than half the population in 11 states. By 2016, when the fourth National Family Health Survey was conducted, open defecation had decreased in all states, with the largest drops seen in Himachal Pradesh and Haryana (Figure 70). Open defecation at the national scale dropped by 16 % pts over these ten years. A comparison of Figures 69 and Figure 70 suggests that the pace of reduction picked up after 2016, with open defecation dropping by 14 % pts over only five years.

### The world is now on track to eliminate open defecation by 2030

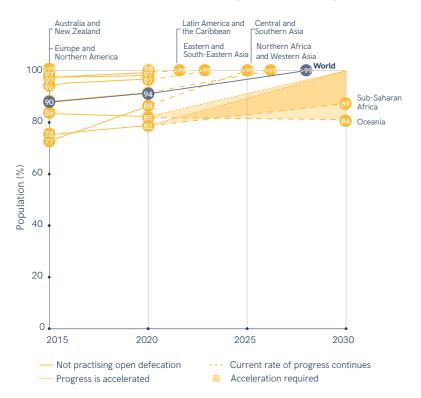


FIGURE 68 Progress in eliminating open defecation, 2015-2020, and acceleration required to reach universal coverage by 2030

In 17 countries, open defecation decreased by more than five percentage points between 2015 and 2020

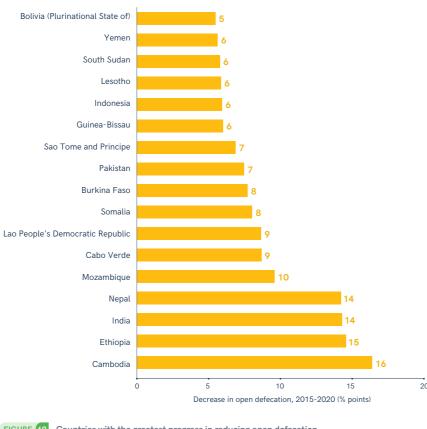
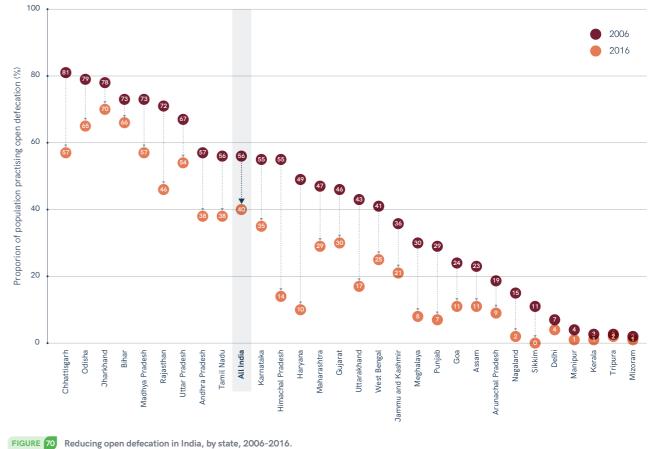


FIGURE 69 Countries with the greatest progress in reducing open defecation between 2015 and 2020



Open defecation has markedly decreased across all states in India



Source: NFHS 2006, 2016



## Data coverage and progression

Most countries have data on open defecation and basic sanitation. Estimates are available for countries totaling more than 98% of the population of each SDG region, except for Latin America and the Caribbean, where the number of countries with data on basic sanitation has dropped steadily over the last three SDG reports, from 46 in 2017 to only 35 in 2021 (Figure 71). Several countries and territories have lost estimates because they rely on decennial censuses and the most recent census is too old to use for 2020 estimates. The country with the largest population that has lost estimates is Argentina, where the most recent data source is the 2010 housing and population census. While countries and territories

in most SDG regions have lost estimates due to aging data, in most regions, the countries and territories have small populations and don't appreciably impact regional estimates.

In contrast, data coverage for safely managed sanitation services has steadily increased, and in this third SDG report, data are available for 120 countries representing 81% of the global population. Only Oceania lacks a regional estimate, because data are not available from Papua New Guinea, which represents nearly three quarters of the regional population. The increase in data coverage has come mainly in lowand middle-income countries where on-site sanitation is widespread,

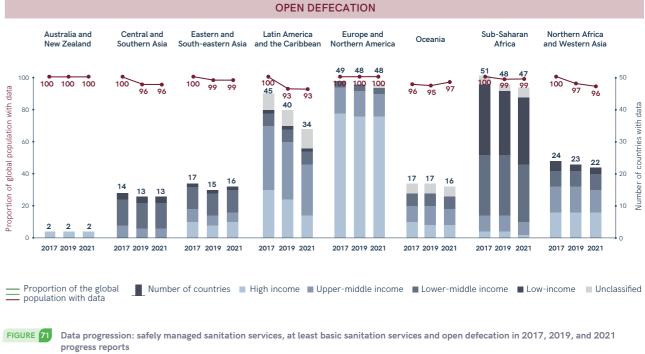
and new questions included in household surveys have collected data on pit-emptying practices. Data coverage is high for safely managed sewer wastewater (91% of the global population with sewer connections) and for safely managed and disposed of in situ (69% of the rural population with on-site sanitation and 59% of the urban population with on-site sanitation). Data on the off-site treatment of faecal sludge from emptied pit latrines and septic tanks remains scarce, with only seven countries<sup>27</sup>, representing 1% of the global population with on-site sanitation having data coverage at the national level.

27 Finland, Iceland, Japan, Lithuania, Norway, Poland, and Republic of Korea









### Data coverage for safely managed sanitation has increased in seven out of eight regions but is lowest in Oceania

AT LEAST BASIC SANITATION



# **Hygiene services**

In 2020 the COVID-19 pandemic thrust the issue of hand hygiene into prominence like never before. WHO called on countries to provide universal access to public hand hygiene stations and make their use obligatory on entering and leaving public and private commercial buildings as well as public transport facilities. In June 2020, WHO and UNICEF jointly launched the "Hand Hygiene For All" initiative, which aims to improve access to handwashing infrastructure, but also to stimulate changes in handwashing practices where facilities are available. Although it is now recognized the principal mode by which people are infected with SARS-CoV-2 is through exposure to respiratory droplets carrying infectious virus, hand hygiene remains central to the COVID-19 response and is known to be an effective measure to control many other infectious diseases. Accelerating progress towards "adequate and equitable hygiene for all" as called for in SDG target 6.2 is a no-regrets investment that leaves the world better prepared to manage future disease outbreaks and pandemics.

Progress towards the SDG target on hygiene is monitored through indicator 6.2.1b, 'the proportion of the population with handwashing facilities with soap and water at home'. Household surveys increasingly include a handwashing module that involves direct observation of handwashing facilities. Enumerators ask to see the place where household members most often wash their hands and then record the type of facility used and whether water and soap were available at the time of the survey. Data on drinking water and sanitation services have been routinely collected for many years, but collecting data on handwashing has only recently become standardized: both the Multiple Indicator Cluster Surveys (MICS) and Demographic and Health Surveys (DHS) added handwashing questions to their standard questionnaires in 2009. Accordingly, while drinking water and sanitation estimates can be produced from 2000 through 2020, hygiene trends in this report are reported only from 2015 through 2020.

The SDG service ladder for hygiene (Figure 72) defines a 'basic hygiene service' as a having a facility at home for washing hands that has both soap and water available. Households that have a handwashing facility but lack water and/or soap are classified as having 'limited hygiene services'. In some settings, ash, soil, sand, or other materials are used as handwashing agents, but these are less effective than soap and are therefore also counted as a limited service.

Since 2015 the population with access to basic hygiene services has increased by over 500 million, from 5.0 billion (67%) to 5.5 billion (71%) (Figure 73). In 2020 2.3 billion people still lacked basic hygiene, including 670 million with no handwashing facility at all. The global estimate of 71% basic hygiene in this report is higher than initial baseline estimates for the year 2017. This is because a number of countries have collected new data showing higher coverage than in previous surveys. In 13 countries the new estimates for 2020 are at least 10 percentage points higher than the 2017 baseline estimates from the previous JMP report; in Bangladesh, Cameroon, Indonesia and Pakistan (all large countries) the new estimates are more than 20 percentage points higher. Many countries still have relatively few data points - on average only two - and more data is needed for the estimates to stabilize. JMP rules allow for extrapolation of estimates for up to two years and extension for a further four years beyond the last data point. If only one data point is available estimates can be produced for four years after the data point. As such 2020 estimates are only available for countries with two surveys available from 2014 onwards, or one survey from 2016 onwards.

## SERVICE LEVEL BASIC

LIMITED **NO SERVICE** 

Note: Handwashing facilities may be located within the dwelling, yard or plot. They may be fixed or mobile and include a sink with tap water, buckets with taps, tippy-taps, and jugs or basins designated for handwashing. Soap includes bar soap, liquid soap, powder detergent, and soapy water but does not include ash, soil, sand or other handwashing agents.

hygiene services

No Service

Limited

Basic

700 billion 9%

5 billion 67%



DEFINITION
Availability of a handwashing facility with soap and water at home
Availability of a handwashing facility lacking soap and/or water at home
No handwashing facility at home

### FIGURE 72 SDG service ladder for hygiene



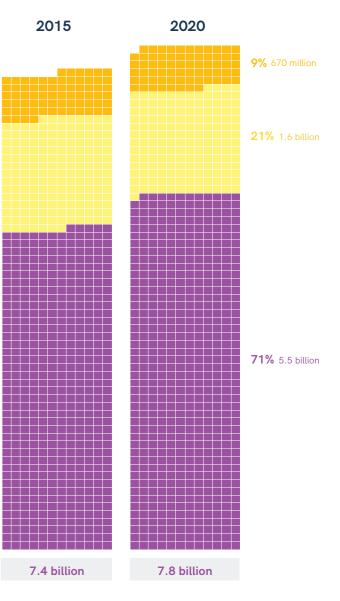


FIGURE 73 Global population with different levels of hygiene service in 2015 and 2020 (each unit represents 10 million people)

## **Basic hygiene services**

In 2020, estimates for basic hygiene coverage were available for 79 countries (Figure 74), ranging from 5% in Rwanda to >99% in Kyrgyzstan, Montenegro, North Macedonia,

and Turkmenistan. Data were most commonly available in sub-Saharan Africa (33 countries) and rarely available for regions with higher incomes. No data on basic hygiene

were available for Australia and New Zealand, and only two countries (both upper-middle income) in Europe and Northern America had estimates.



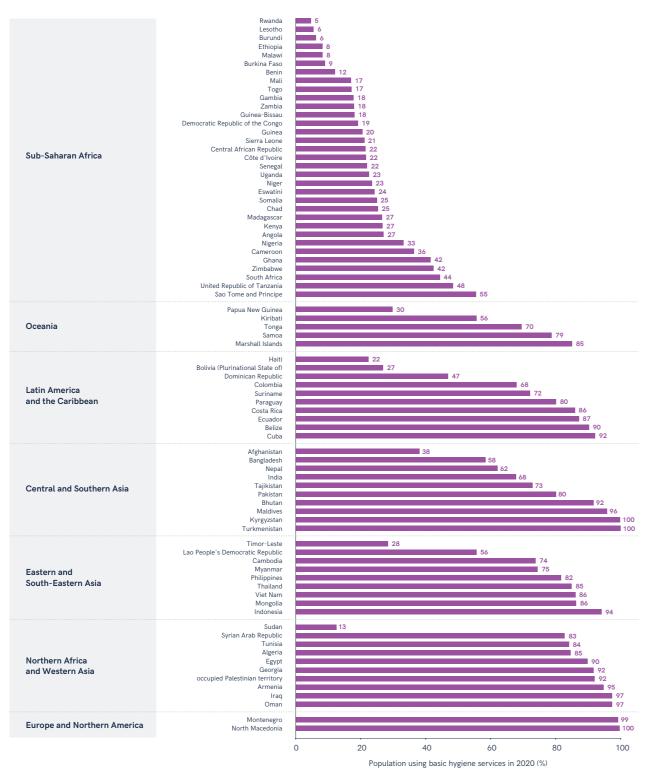
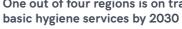


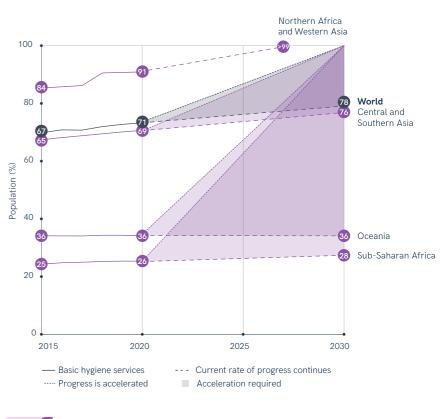
FIGURE 74 Proportion of population with basic hygiene services in 2020 by country (%)



Although most countries have relatively few data, for the first time, there were enough to produce trends for basic hygiene at the global level and for four of the SDG regions where data were available for at least 50% of the population. If current rates of progress continue, the world will reach 78% coverage with basic hygiene in 2030, leaving 1.9 billion people without basic hygiene (Figure 75). Northern Africa and Western Asia would reach universal (>99%) coverage between 2025 and 2030, while available data suggest that there has been relatively little progress in Oceania and sub-Saharan Africa over the first five years of the SDG period. In fragile contexts, at current rates of progress basic hygiene coverage would only reach 58% by 2030. However, until more data points become available these rates of progress should be taken with caution<sup>28</sup>

<sup>28</sup> In 2020, national estimates were only available for five countries in Oceania and in all cases these were based on a single data point





70 WHO | UNICEF JMP One out of four regions is on track to achieve universal (>99%) access to

FIGURE 75 Progress in basic hygiene services 2015-2020 (%), and acceleration required to reach universal coverage by 2030

#### Coverage of basic handwashing facilities is higher in urban than rural but many regions still lack data

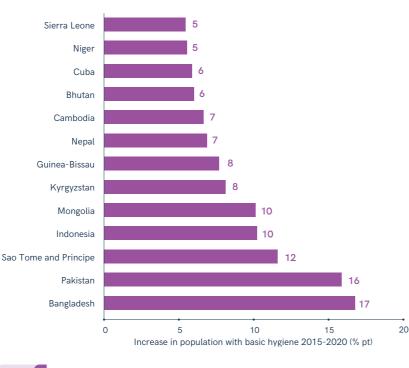


FIGURE 76 Urban and rural hygiene coverage by SDG region, 2015 and 2020 (%) \*Insufficient data to estimate hygiene services in 2020

Most of the data sources for hygiene are household surveys which routinely disaggregate data into urban and rural areas. While coverage in urban areas is generally higher than in rural areas, rates of progress tend to be higher in rural areas (Figure 76). Some surveys cover only rural areas (e.g. Perú's Encuesta Nacional de Programas Estratégico). For this reason in Northern Africa and Western Asia, Latin America and the Caribbean, and at the global level there are not enough data to produce urban estimates. Likewise, some countries have only one older data source, so estimates are available for 2015 but not 2020.

Among the 35 countries with multiple data points, 13 have increased basic hygiene by more than five % pts between 2015 and 2020, and five countries have increased coverage by more than ten % pts (Figure 77).

#### Since 2015, 13 countries have increased basic hygiene by at least 5 percentage points

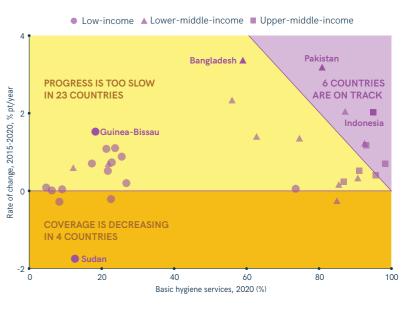




Only six of the 33 countries (three upper-middle-income and three lower-middle-income) that had yet to achieve universal (>99%) coverage by 2020 were on track to achieve universal coverage by 2030 (Figure 78).

In recent years, household surveys have refined the questions asked about handwashing facilities to include separate response categories for different types of handwashing facilities, including both fixed devices like sinks and taps, and mobile devices like jugs and portable basins. These surveys, which have been used since 2016, have shown that mobile devices are widely used in sub-Saharan Africa (Figure 79). Older surveys that don't include responses for mobile devices (shown in light purple) may significantly underestimate the population with access to handwashing facilities. This may account for the very low figures seen for Liberia (2013) and

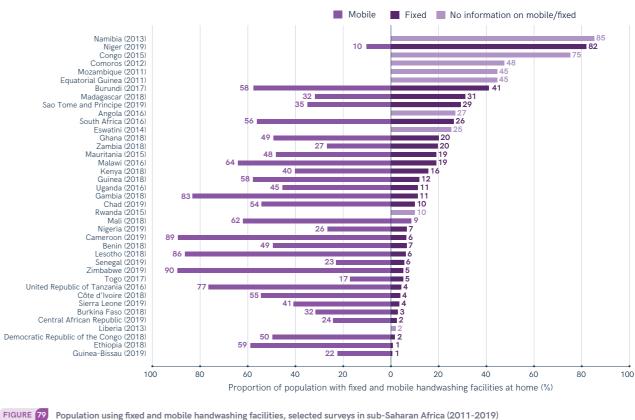
(>99%) basic hygiene by 2030





where the newer questions haven't yet been used. When new surveys become available with information Rwanda (2015), and other countries

Many people in sub-Saharan Africa use mobile devices for handwashing



72 WHO | UNICEF JMP

# 6 out of 33 countries with trend data are on track to achieve universal

FIGURE 78 Progress towards universal basic hygiene 2015-2020 among countries with <99% coverage in 2020, by income

Notes: Includes 33 countries with at least 1% lacking access to basic hygiene services in 2020. Does not include 2 countries that already had >99% access to basic hygiene services in 2020.

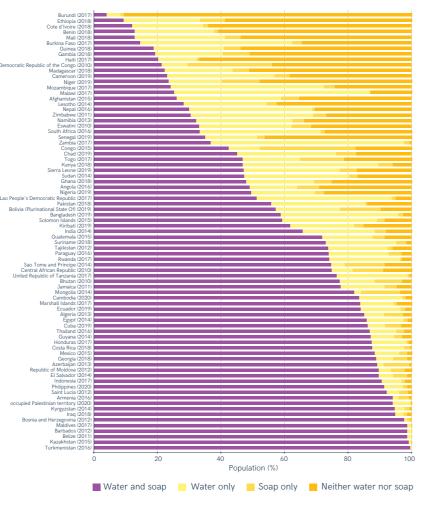
on both fixed and mobile devices the JMP uses these to update national estimates.

People living in households with handwashing facilities that lack water and/or soap are classified as having a limited hygiene service. In many countries, people with limited hygiene services in rural areas either lack water, or lack both water and soap; it is less common to have soap but lack water (Figure 80). There are exceptions: the 2010 MICS in the Democratic Republic of Congo found that 7% of facilities had water only while 26% had soap without water. But of the 73 surveys with data on both water and soap, in only ten cases was having soap without water more likely than having water without soap. In 25 surveys less than half of facilities had both soap and water.

In some countries, households without drinking water on premises still have water for domestic use and soap at household handwashing facilities (Figure 81). For example, in Mongolia 86% of the population in 2020 had basic hygiene services, although only 30% of the population had improved water on premises (85% did have a basic drinking water service - improved water within 30 minutes - and 74% had water available when needed). In other countries, households with drinking water accessible on premises still lack basic hygiene services. In the Plurinational State of Bolivia, where 86% of the population have improved water on premises, only 27% have basic hygiene; availability of soap is the limiting factor.



#### Handwashing facilities in rural areas are more likely to lack soap than to lack water





Populations with drinking water accessible on premises do not always have basic hygiene services

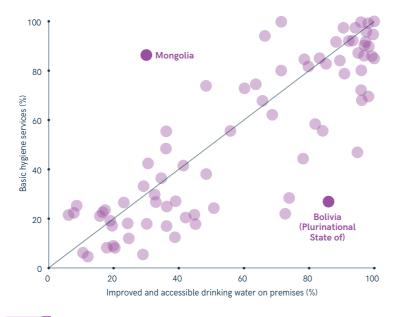


FIGURE 81 Population with basic hygiene services, and with improved drinking water sources accessible on premises by country in 2020 (%)

### Leaving no one behind

Access to basic hygiene services varies widely within regions and within countries. Among the SDG regions accessed ranged from 26% in sub-Saharan Africa to 91% in Northern Africa and Western Asia (Figure 82). There weren't enough countries with data in Latin America and the Caribbean to make a regional estimate, due to data gaps in large countries like Brazil and Mexico. Still, country estimates ranged from 22% in Haiti to 92% in Cuba Within most regions of Haiti, about 20% of people have basic hygiene services, except for Aire Métropolitaine, which includes the capital Port-au-Prince, at 32%, and the landlocked Department of Centre where access is only 14% (Figure 82).



#### Disaggregated data reveal disparities in basic hygiene between and within countries

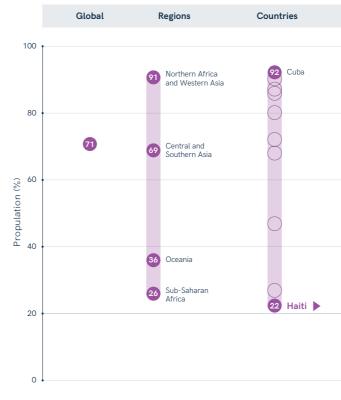


FIGURE 82 Population with basic hygiene services disaggregated by SDG region, country, urban-rural, sub-national region and wealth quintiles in Haiti (%) Note: Sub-national and wealth quintiles data are extracted from the Haiti 2017 DHS. Other data are JMP 2021 estimates for drinking water.

Urban/Rural	Wealth quintiles	Sub-national
	40 Richest	
		32 Aire
28 Urban		32 Métropolitaine
15 Rural	Poorest	14 Centre

Household surveys allow disaggregation into different population groups, revealing inequalities that aren't visible with national statistics. Access to basic hygiene services is more common in urban than rural areas; of the 76 countries with data for both urban and rural areas, only Bhutan and Gambia have higher basic hygiene in rural areas (Figure 83). In 16

countries, the urban-rural gap is more than 20 % pts; in Colombia it is 45 pts. The gaps in access between different sub-national regions within one country can be even more pronounced. Among 75 surveys with sub-national data on basic hygiene, in 12 cases the coverage gap between the highest and lowest regions is more than 50 % pts (Figure 84). These gaps can be especially pronounced in

countries with a large number of subnational regions; for example, the 2016 survey for India included data for 35 States and union territories, with access to handwashing facilities ranging from 96% in Sikkim to 29% in Odisha. See Annex 7 for the complete list of surveys with subnational inequalities, and the highest and lowest levels of coverage.

Figure 83 and Figure 84 show absolute measures of inequality, as gaps between the groups with the highest and lowest basic hygiene services. Figure 85 shows a relative measure of inequality, the ratio between basic hygiene between the richest and poorest wealth quintiles. In some cases, inequality ratios can be very high even if absolute gaps are not very large. For example, in urban Liberia in 2020, the richest were 32 times as likely to have access to basic handwashing as the poorest, because even though coverage was fairly low among the richest (17%) it was

00

6

# regions in 2020

Montenegro (2018)

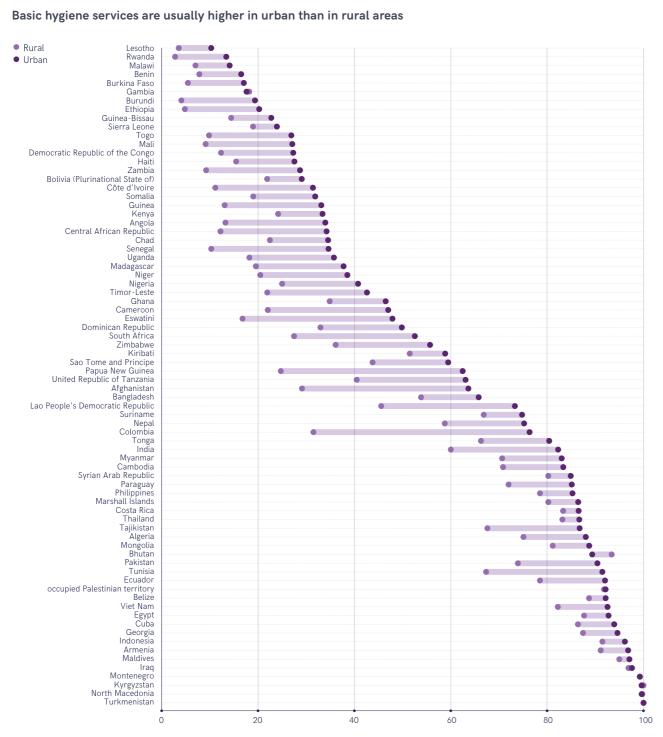


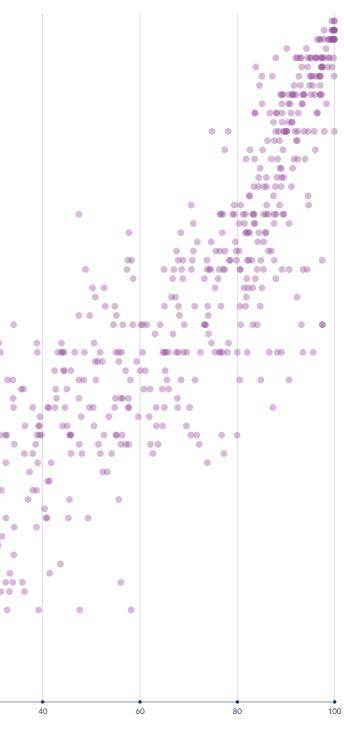
FIGURE 83 Population with basic hygiene services in urban and rural by country in 2020 (%)



FIGURE 84 Population with basic hygiene services, by sub-national region, 2011-2020 (%)

exceedingly rare among the poorest (0.5%). In other cases, high inequality ratios reflect large gaps in absolute access, such as urban Burundi where in 2017, the richest (62%) were 30 times as likely to have access as the poorest (2%). In this case both relative and absolute inequalities are large.





The ratio of richest to poorest highlights significant inequalities in basic hygiene coverage

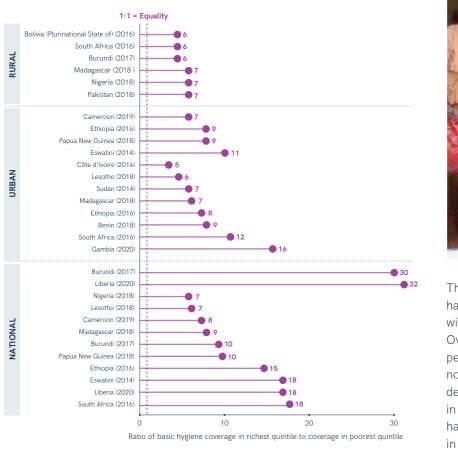








FIGURE 86 Population with no handwashing facility in 2020 (%)



The people least able to manage hand hygiene in the home are those with no handwashing facilities at all. Over the first five years of the SDG period the number of people with no handwashing facility has only decreased slightly from 700 million in 2015, to 630 million in 2020. Over half of these people (374 million) live in fragile contexts. In sub-Saharan Africa and in Oceania the number of people with no handwashing facility has increased slightly due to population growth (by 35.4 million and 0.5 million, respectively), although in both regions the proportion without handwashing facilities has stayed steady at about one third.

In 11 countries, at least half of the population had no handwashing facilities at home (Figure 86). In some of these countries, surveys have not counted mobile handwashing devices and may significantly underestimate access to handwashing facilities this may be the case for Rwanda and Eswatini. In Togo the 2017 MICS, with response categories for mobile devices, found nearly twice as many households to have basic handwashing facilities as the 2014 DHS, which didn't include responses for mobile devices. However, even when considering mobile devices, the large majority of households in Togo had no handwashing facility at all.

### Data coverage and progression

Hygiene services are much less likely to be tracked by routine administrative monitoring systems than drinking water and sanitation services. The most reliable way of collecting data on hygiene services at home is through household surveys. It is well known that people over-report their own handwashing practices, so rather than asking survey respondents about when or how often they wash their hands, it is recommended for survey teams to ask to see the place where household members reportedly wash their hands, and then to record if water and

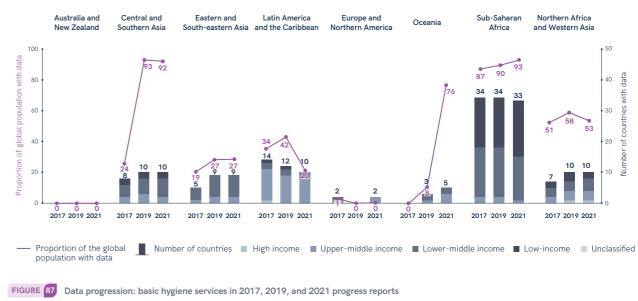
soap are available at the handwashing facilities. Handwashing data has been collected in household surveys with methods like these for over ten years, but still, many countries have not integrated such questions into their national surveys or censuses. By now, most countries that participate in internationally-managed household survey programmes like the MICS and DHS, have collected one or more rounds of data on hygiene services. However, upper-middle and high-income countries rarely include questions about handwashing facilities in household surveys, and as such, have very low data coverage.



These countries may have regulatory requirements about bathrooms and running water in homes, or may simply assume that access to basic hygiene services is universal. However, the JMP doesn't use regulations as data sources for SDG estimates. Only one high-income country (Oman) currently has survey data about access to basic hygiene services in the home.

In low- and middle-income countries, data coverage has steadily progressed over the three SDG reports (Figure 87), with large increases in coverage at the regional level as populous countries collected data for the

#### Data coverage for basic hygiene has stagnated and has decreased in four SDG regions



first time (e.g. India in Central and Southern Asia; Papua New Guinea in Oceania). However, some countries have not collected data on basic hygiene in recent years; in Mexico, the only available survey was the 2015 MICS, which by JMP rules can be used for estimates only through 2019. Accordingly, regional data coverage in Latin America and the Caribbean dropped from 42% in the 2019 report (estimates for 2000-2017) to 20% in the 2021 report (estimates for 2000-2020). Only four SDG regions have data for over 50% of the population, and can produce regional estimates for basic hygiene.

#### BOX 4 **BASIC WASH SERVICES**

Monitoring of safely managed drinking water and sanitation services requires information about drinking water quality and wastewater management that are difficult or impossible to collect in household surveys. However, the basic water, sanitation and hygiene service indicators can all be easily monitored with a few core questions. This allows the calculation of how many people have all three basic services, within the same household. This 'basic WASH services' indicator is close to the lowest of the basic water, sanitation and hygiene service indicators, among 41 recent surveys (Figure 88). Among both the richest and the poorest, basic hygiene tends to be the lowest, and thus the limiting factor for basic WASH, while basic water is the

highest of the indicators. There are exceptions: in Myanmar in 2016, basic hygiene was 12 percentage points higher than basic sanitation among the richest, and 32 points higher among the poorest. In Tunisia in 2018, basic sanitation was about 9 points higher than basic water for both the richest and the poorest; for the richest basic water was the limiting factor for basic WASH.

As for the individual basic service indicators, basic WASH is highly variable. There is often a significant gap between the richest and the other quintiles in low-coverage countries, or one region (often the capital) and the rest of the country (Figure 89). The reverse can be seen in high-coverage countries, where the poorest, and one or two regions, often lag behind the rest of the population.

#### Hygiene is often the limiting factor for basic WASH services

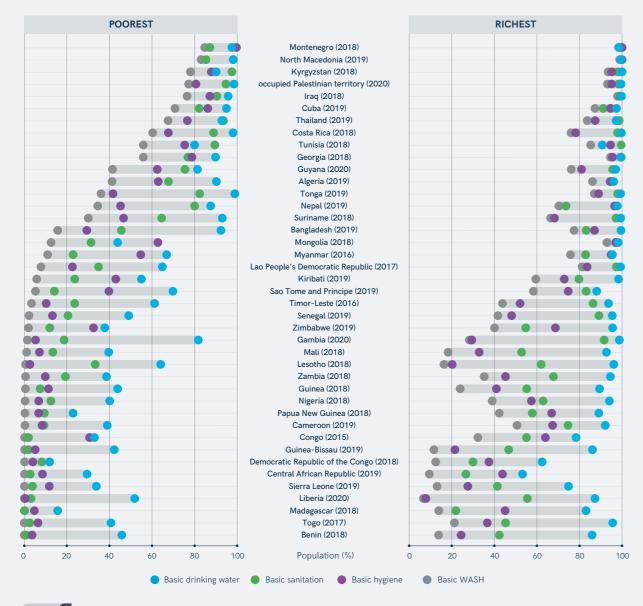
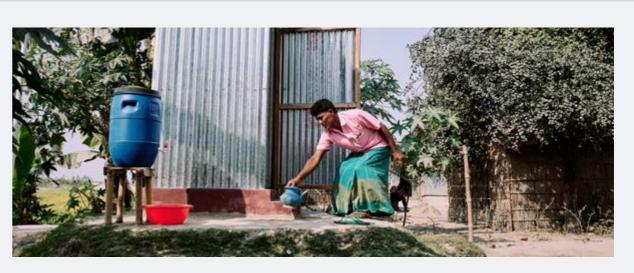


FIGURE 88 Basic drinking water, sanitation, hygiene and WASH among the richest and poorest quintiles, selected surveys 2015-2020



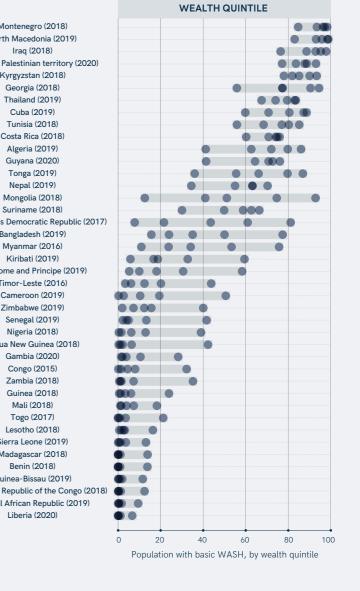
Inequalities in basic WASH show similar patterns over sub-national regions and wealth quintiles

				Montenegro (201
				North Macedonia (2
				Iraq (2018)
				occupied Palestinian territ
				Kyrgyzstan (2018)
				Georgia (2018)
				Thailand (2019)
				Cuba (2019)
				Tunisia (2018)
				Costa Rica (2018
				Algeria (2019)
				Guyana (2020)
				Tonga (2019)
				Nepal (2019)
				Mongolia (2018)
				Suriname (2018
				Lao People's Democratic Rep
				Bangladesh (201
				Myanmar (2016
				Kiribati (2019)
				Sao Tome and Principe
				Timor-Leste (201
				Cameroon (2019
				Zimbabwe (2019
				Senegal (2019)
	•			Nigeria (2018)
				Papua New Guinea (2
				Gambia (2020)
				Congo (2015)
				Zambia (2018)
				Guinea (2018)
				Mali (2018)
				Togo (2017)
				Lesotho (2018)
				Sierra Leone (201
				Madagascar (201
				Benin (2018)
				Guinea-Bissau (20
				Democratic Republic of the 0
				Central African Republi
				Liberia (2020)
				•
) 20	40	60	80	100

FIGURE 89 Basic WASH services by sub-national region and wealth quintile, selected surveys 2015-2020.

HYGIENE SERVICES







# 05.

# **Menstrual Health**

Menstruation is experienced by a large portion of the global population but until recently relatively little attention has been paid to defining and monitoring menstrual health at national levels. While the age at menarche varies, information about menstrual health is increasingly included in surveys of women and girls age 15-49. In 2020, the global population of females in this age group was 1.9 billion (up from 1.6 billion in 2000). In addition, many people start menstruating before the age of 15 and there are also transgender, intersex, and non-binary people who experience a menstrual cycle. While menstruation can be a taboo topic, the importance of menstrual health is increasingly recognized, and advances have been made both in terms of norms and monitoring, including

a recently published global definition of menstrual health<sup>29</sup>.

Menstrual health is linked to SDG target 6.2, which aims to achieve 'access to adequate and equitable sanitation and hygiene for all... paying special attention to the needs of women and girls...', and in recent years, WASH programmes have dedicated more attention to menstrual health needs. The JMP has expanded its database to incorporate harmonized menstrual health indicators, including a new tab in the JMP Country Files, and this is the first JMP progress update to include a dedicated section on menstrual health. While the definition of menstrual health (Box 5) is multi-faceted and spans different sectors, new questions related to menstrual health indicators have been progressively included in household surveys used for national and global WASH monitoring. These indicators can be grouped into the following four areas:

- Awareness of menstruation before menarche (first menstruation).
- Use of menstrual materials to capture and contain menstrual blood, such as sanitary pads, cloth, tampons, or cups. These can also be grouped into single-use and reusable materials.
- Access to a private place to wash and change while at home.

• **Participation** in activities during menstruation, such as school, work and social activities.

National data on these indicators are typically collected through household surveys that include a women's questionnaire, with a range of questions for women and girls age 15 to 49, administered by female enumerators. The questions are only asked of those who have menstruated recently (that is, during the past 3 months (Performance Monitoring and Accountability 2020 (PMA) surveys) or the last 12 months (Multiple Indicator Cluster Survey 6 (MICS6)).

Emerging national data on each of these indicators have been compiled

### BOX 5 DEFINITION OF MENSTRUAL HEALTH<sup>29</sup>

The following definition of menstrual health was published in 2021 based on a multi-stage process led by the Terminology Action Group of the Global Menstrual Collective<sup>31</sup>. Elements related to the four emerging indicators for global monitoring of menstrual health as presented in this report are highlighted in bold text.

Menstrual health is a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity, in relation to the menstrual cycle. Achieving menstrual health implies that women, girls, and all other people who experience a menstrual cycle, throughout their life-course, are able to:

- access accurate, timely, age-appropriate information about the menstrual cycle, menstruation, and changes experienced throughout the life-course, as well as related self-care and hygiene practices.
- care for their bodies during menstruation such that their preferences, hygiene, comfort, privacy, and safety are supported. This includes accessing and using effective and affordable menstrual materials and having supportive facilities and services, including water, sanitation and hygiene services, for washing the body and hands, changing menstrual materials, and cleaning and/or disposing of used materials.
- access timely diagnosis, treatment and care for menstrual cycle-related discomforts and disorders, including access to appropriate health services and resources, pain relief, and strategies for self-care.

and harmonized across countries and surveys, to the extent possible, to support cross-country comparison. The data presented in this chapter are based on the most recent available surveys. Examples of questions used in national surveys are presented at the beginning of each sub-section that follows. The JMP does not currently use a service ladder for menstrual health, as norms and standards relating to menstrual health and associated water, sanitation, and hygiene needs are still evolving. Further work is needed to refine these indicators and evaluate if others may be more relevant<sup>30</sup>.

<sup>30</sup> Recommended indicators for global monitoring are anticipated from the Menstrual Health and Hygiene Global Advisory Group, which may inform future national surveys. For more information see: <a href="https://www.publichealth.columbia.edu/sites/default/files/green\_paper\_monitoring\_menstrual\_health\_and\_hygiene.pdf">https://www.publichealth. columbia.edu/sites/default/files/green\_paper\_ monitoring\_menstrual\_health\_and\_hygiene.pdf</a>>.



- experience a positive and respectful environment in relation to the menstrual cycle, free from stigma and psychological distress, including the resources and support they need to confidently care for their bodies and make informed decisions about self-care throughout their menstrual cycle.
- decide whether and how to participate in all spheres of life, including civil, cultural, economic, social, and political, during all phases of the menstrual cycle, free from menstrual-related exclusion, restriction, discrimination, coercion, and/or violence.

<sup>&</sup>lt;sup>29</sup> Hennegan, J, et al., 'Menstrual health: a definition for policy, practice, and research', Sexual and Reproductive Health Matters, 29(1), 2021.

<sup>&</sup>lt;sup>31</sup> The Global Menstrual Collective was established in 2019 to bring together multisectoral stakeholders and coalitions working on menstrual health with the purpose of supporting coordination and bolstering collective, evidence-based advocacy to drive investment. For more information see: <www.globalmenstrualcollective.org>.

### Data coverage

Data on menstrual health are already available in many countries. By 2020, national data on at least one of the four emerging indicators had been collected in 42 countries, 31 of which had information on at least three of the four indicators. While 39 countries had data on the use of menstrual materials and access to a private place to wash and change, and 34 countries had data on participation in activities

during menstruation, Bangladesh and Egypt were the only 2 countries with national data on awareness of menstruation before menarche.

Nearly half (19) of the 42 countries with national data on the menstrual health indicators were in the sub-Saharan Africa region (Figure 90), and most were either low-income (13) or lower-middle-income countries (18). No high-income

countries had national data on any of the emerging menstrual health indicators. In addition to questions about menstrual health, many national surveys collected data on the area (urban/rural) and sub-national region where women live, in addition to age, education level, wealth quintile, ethnicity, and disability, which allow for disaggregation and a better understanding of inequalities in menstrual health.

#### Nearly half of the countries with data on menstrual health were in sub-Saharan Africa

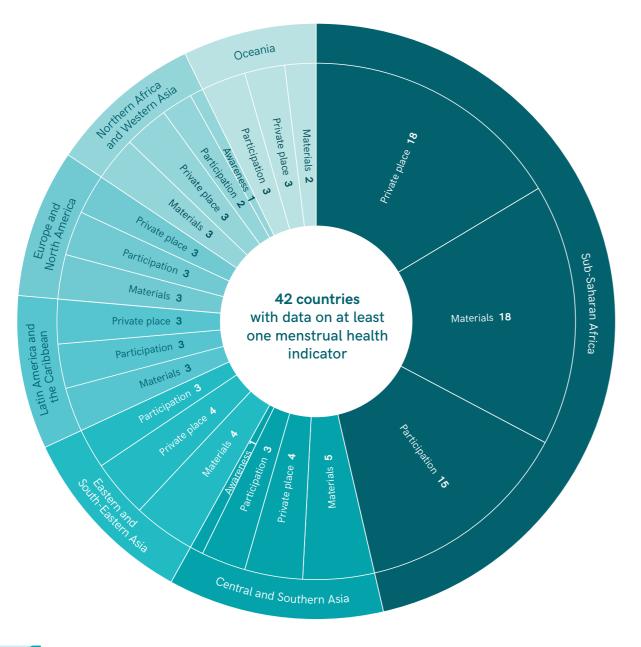


FIGURE 90 Number of countries with national data on emerging menstrual health indicators

# **Awareness**

Awareness of menstruation before menarche is a cross-cutting indicator with links to social support and implications for sexual and reproductive health, family planning, education, and psychosocial wellbeing. For these reasons, it was recommended as a key indicator by the Menstrual Health and Hygiene (MHH) Global Advisory Group in 2019<sup>32</sup>, and the associated question was included in UNICEF's Guidance for Monitoring Menstrual *Health and Hygiene*<sup>33</sup>. Examples of questions used to gather data on awareness of menstruation before menarche are provided in Table 3, starting with the recommended question from expert review.

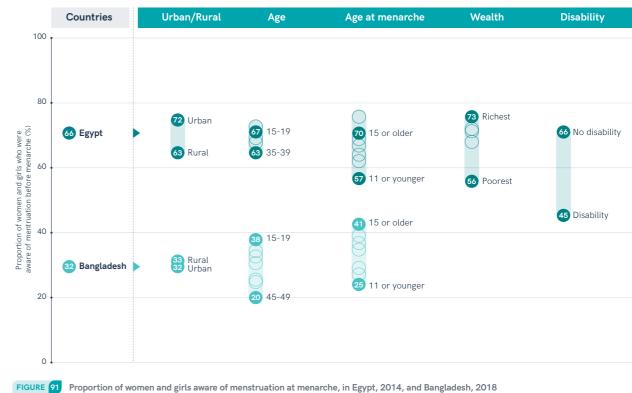
<sup>32</sup> Recommended indicators for global monitoring are anticipated from the Menstrual Health and Hygiene Global Advisory Group, which may inform future nationa surveys. For more information see: <www.publichealth columbia.edu/sites/default/files/green\_paper. monitoring\_menstrual\_health\_and\_hygiene.pdf>. <sup>33</sup> United Nations Children's Fund. Guidance for Monitoring Menstrual Health and Hygiene (version 1) UNICEF, New York, 2020 < https://www.unicef.org/ media/85461/file/MHM-Monitoring-Resource.pdf>. Note that questions are based on existing questions from multiple surveys and expert review. They are not intended to be prescriptive or comprehensive and additional work on recommended questions and indicators is underway by the Menstrual Health and Hygiene Global Advisory Group COUNTRY SOU N/A Guida Mens Hygie EGYPT Surve BANGLADESH Natio



While Bangladesh and Egypt were the only countries identified with nationally representative data on this indicator, findings suggest that a significant proportion of girls were not aware of menstruation when they had their first period. Only 32% and 66% of respondents knew about menstruation before menarche, respectively (Figure 91).

In Egypt, a higher proportion of women in urban areas (72%) were aware of menstruation before menarche than those living in rural

#### Awareness of menstruation at menarche varies widely between and within countries



RCE	YEAR	QUESTION
ance on Monitoring strual Health and ene <sup>33</sup>	2020	Before you had your first menstrual period, were you aware of menstruation?
ey of Young People	2014	Did you know prior to having it that there is something called a menstrual period?
nal Hygiene Survey	2018	আপন মিাসকি শুরুর আগ মোসকি সংক্রান্ত বষিয় কেনে কছিু জনেছেনে বা শুনছেন Did you know or hear anything about menstruation before the start of menstruation?

TABLE 3 Example questions used to collect data on awareness of menstruation before menarche

areas (63%), but in Bangladesh there was little difference. Although there may be a decrease in ability to recall menarche over time, data suggest that younger women and adolescent girls (age 15 to 19) in Bangladesh were nearly twice as likely to know about menstruation when they had their first period compared with older women (age 45 to 49), while the gap between age groups was much narrower in Egypt<sup>34</sup>.

<sup>34</sup> Egypt data were collected from women and girls age 15 to 35, while Bangladesh data were collected from women and girls age 15 to 49. The gap between age groups is narrower in Egypt, even taking this into account.

In both countries, those who reached menarche at a later age were more likely to be aware of menstruation than those who had their first period earlier in life. In Bangladesh, the proportion of girls age 15 or older at menarche who knew about menstruation during this life transition was 16 % pts higher than those who were 11 or younger. It was also possible to disaggregate data by wealth quintile and disability status in Egypt. Just over half (56%) of women from the poorest households were aware of menstruation at menarche, compared with nearly three quarters (73%) of women from the richest households. Similarly, only 45% of women with a disability knew

what was happening during their first period, compared with 66% of women without a disability.

Awareness of menstruation before menarche can also influence how girls feel when they have their first menstrual period. While there is a complex relationship between age, awareness, and socio-emotional response at menarche, on average, girls that were already aware of menstruation were less likely to report feeling shock or fear when they had their first menstrual period. In Egypt, 74% of girls who were unaware of menstruation felt shocked, afraid or cried at menarche, while only 40% of those who knew why they were bleeding had a similar

reaction. Similarly, in Bangladesh, 69% of girls who were not aware of menstruation felt scared at menarche compared to 55% of those that were aware of menstruation. However, knowledge of menstruation is not necessarily linked to positive feelings or the knowledge and skills needed to manage menstruation. In Bangladesh, 8% of girls that didn't know about menstruation felt shame at menarche while over double the proportion (17%) of those who knew about menstruation beforehand felt shame. In Egypt, 19% of those that were unaware of menstruation didn't know what to do at menarche, but a similar proportion (23%) of those that did know about menstruation also didn't know what to do.



### **Materials**

Various types of menstrual materials are used to capture and contain menstrual blood. These can include single-use and reusable materials, as well as purchased products and non-purchased materials. The use and type of menstrual materials have implications for WASH service needs, such as water and soap to wash hands and reusable materials and a safe place to dispose of single-use materials.

Several surveys have included questions on the types of menstrual materials used, including international survey programmes such as MICS and PMA, as well as country-specific surveys (Table 4). Many surveys also specifically ask if the respondent used reusable materials. While some surveys ask the respondent to indicate the materials they most commonly used, others allow multiple options to be selected. For the purposes of global monitoring, women who used materials such as sanitary pads, tampons, menstrual cups, cloth, or cotton wool during their last menstrual period were classified as using menstrual materials, while those who only used toilet paper, underwear alone, or nothing were classified as not using menstrual materials. Those reporting that they used reusable materials at any point during their last period were classified as using reusable materials.

Information on the type of menstrual materials used supports a better understanding of menstrual experiences, associated WASH service needs, and knowledge required for hygienic use and safe

COUNTRY	SOURCE	YEAR	QUESTION
N/A	Guidance on Monitoring Menstrual Health and	2020	During your last m catch menstrual b
N/A MULTIPLE MULTIPLE	Hygiene		<ul> <li>Cloth</li> <li>Reusable sanitary</li> <li>Single-use sanitar</li> <li>Tampons</li> <li>Menstrual cup</li> </ul>
MULTIPLE	MICS6 Questionnaire for Individual Women	2017-2020	Did you use any m (some surveys add Were the material
MULTIPLE	PMA 2020 Female Questionnaire	2016-2019	During your last m blood? (options va
			<ul> <li>Disposable sanita</li> <li>Reusable sanitary</li> <li>New cloth</li> <li>Old cloth</li> <li>Cotton wool</li> <li>Diaper</li> <li>Tampons</li> </ul>
			Did you wash and menstrual period?
ZIMBABWE	MICS6 Questionnaire for Individual Women	2019	What do you usua · Sanitary pads · Tampons · Cotton wool · Cloth · Menstrual cup · Tissue paper

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disposal. However, there is no commonly agreed definition of 'appropriate' menstrual materials, and how and when materials are used may be more important than the specific type of material. It is also important to consider the accessibility, quality and cost of menstrual materials. Monitoring the use of reusable materials is not intended to suggest that reusable materials are the better option, rather to understand the prevalence of different practises. While the impacts of disposable products on the environment and the functioning of sanitation facilities deserve greater research and consideration, menstrual health experts have highlighted that women should be able to use their preferred materials without additional shame or judgement.

nenstrual period, what materials did you use most often to absorb or blood?

y pads ary pads

- · Toilet paper
- · Cotton wool
- Underwear alone
- Other
- $\cdot$  No materials used

naterials such as sanitary pads, tampons or cloth? d cotton wool and menstrual cups to the list). Is reusable?

menstrual period, what did you use to collect or absorb your menstrual rary slightly by country)

tary pad (commercial) ry pad

- · Toilet paper
- Underwear alone
- Bucket
- · Other
- · No materials used
- · No response

reuse pads, cloths, or other sanitary materials during your last ?

ally use during your menstrual period?

- · Cow dung
- Paper
- · Leaves/Grass/Cobs
- · Other (Specify)
- Nothing

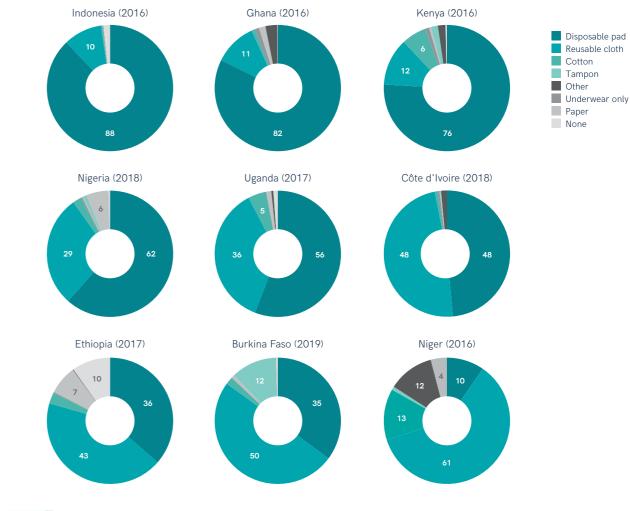
TABLE 4 Examples of questions used to collect data on the use of menstrual materials by source

The use of menstrual materials was high in most countries, ranging from 81% to universal (> 99%) (Annex 6). There was little variation between urban and rural areas, except in Lao People's Democratic Republic, Ethiopia and Niger, where there was a difference of more than ten % pts for the use of menstrual materials in urban areas compared with rural areas (Figure 92). The proportion of women who used reusable materials varies widely between countries. In

Sao Tome and Principe, and Chad, most women used reusable materials, while in North Macedonia, Tonga, Turkmenistan and Serbia almost all women used single-use materials. On average, the use of reusable materials was more common in rural areas. In Nigeria and Lesotho, women living in rural areas were more than four times as likely to use reusable materials compared with women living in urban areas. In other countries, the difference was much less substantial.

Of the 39 countries with data on the use of menstrual materials, only Madagascar and Zimbabwe collected data on the use of menstrual cups. In both countries, they were used by less than 1% of women. The types of menstrual materials used are often highly context-specific and further work is required to develop a comprehensive set of response categories that can be used for crosscountry comparison.

#### In five out of nine countries, most women and girls used disposable pads



PMA surveys, 2016-2019 Note: Women were asked to select all types of absorbents they use.

Based on data from nine countries with consistent response categories, the great majority of women reported using either disposable pads or reusable cloth, but the most common type of menstrual material varied widely between countries (Figure 93). In five of the nine countries, disposable pads were most common, while in three countries reusable cloth was more common, and in Côte d'Ivoire there was a similar usage level for disposable pads and reusable cloth. In some countries, many women used other types of menstrual materials. In Niger, 14% of women used cotton. Tampons were uncommon in all nine countries, with the highest proportion of women using tampons, in Kenya and Ghana, at just over 1%. Many women used nothing or materials

that were not classified as menstrual materials. In Nigeria, 6% of women used paper, in Burkina Faso, 12% used underwear only, and in Ethiopia, 11% used nothing.

The type of material used also varied by age. For example, in Côte d'Ivoire, 65% of those age 15-19 used disposable pads compared to 30% of women age 45-49. Reusable cloth was more commonly used by older women (73% of those age 45-49) than by younger women and girls (36% of those age 15-19). Similarly, in Nigeria, 69% and 58% of women and girls age 15-19 and age 45-49, respectively, used disposable pads.

For women using single-use materials in these nine countries,

Use of single-use and reusable materials varies widely, between countries but reusable materials are more commonly used in rural areas than urban settings

Proportion of women and girls who use mainly reusable products

F	RURAL					URBAN		
	4		Sao Tome and Principe (2019)	97		2		
	9		Sierra Leone (2017)		48		50	
	8		Chad (2019)		55 💼		38	
79	14		Madagascar (2018)		58		39	
79	21		Gambia (2018)		50 🔳		47	
78	15		Democratic Republic of the Congo (2018)			35	6	51
77	19		Central African Republic (2019)		3	9	55	
76	20		Togo (2017)		3	9	58	8
74	25		Democratic People's Republic of Korea (2017)		43		55	
73	10		Niger (2016)			35	58	8
72	28		Côte d'Ivoire (2018)		3	8	6	51
71	21		Nepal (2020)		54		41	
71	25		Bangladesh (2019)		51 🗖		47	
63	22		Burkina Faso (2019)			16		76
55	23		Ethiopia (2017)			25		71
46		<b>5</b> 2	Uganda (2017)			24		74
43		<b>5</b> 1	Nigeria (2018)			11		
29		68	Zimbabwe (2019)			11		
25		72	Kyrgyzstan (2018)			8		
24		74	Kiribati (2019)			11		
18 🗖		80	Ghana (2018)			7		
17 🗖		79	Iraq (2018)			8		
17 🗖		79	Indonesia (2016)			9		
16 🗖		83	Kenya (2016)			6		
12		85	Lesotho (2018)			3		
7		87	Algeria (2019)			3		
(	5	81	Suriname (2018)			3		
1	5	86	Mongolia (2018)			2		
	4	93	Montenegro (2019)			4		
	4	94	Cuba (2019)			2		
	3	72	Lao People's Democratic Republic (2017)			2		
	2	90	6 Costa Rica (2018)			2		-
	2	92	occupied Palestinian territory (2020)			2		
	1	9	7 North Macedonia (2019)			1		
	1	94	Tonga (2019)			1		-
	1	9	9 Turkmenistan (2019)			1		
	<1	9	8 Serbia (2019)			<1	_	

FIGURE 92 Proportion of women and girls who mainly use reusable and single-use materials, in rural and urban areas, by country

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FIGURE 93 Proportion of women and girls age 15-49, who used a particular type of menstrual material during their previous menstrual period, selected

disposal locations also varied between and within countries. In four of the nine countries (Nigeria, Ghana, Côte d'Ivoire, and Indonesia), the most common place that women disposed of used materials was in the waste bin (ranging from 52% of women in Nigeria to 74% in Indonesia). In the other five countries (Ethiopia, Niger, Kenya, Burkina Faso, and Uganda), the most common disposal location was in the pit latrine (ranging from 53% of women in Ethiopia to 87% in Uganda). Many women disposed of used materials by flushing them down a toilet in Indonesia (13%), Nigeria (13%), and Niger (11%) and many burned their used menstrual materials in Indonesia (13%), Ghana (10%), and Nigeria (10%).

### Private place to wash and change

The latest MICS6 and DHS8 women's questionnaires each include a single question about women's ability to wash and change in privacy while at home during their last menstrual period (Table 5). Other surveys, including the PMA and individual national surveys, such as the Bangladesh National Hygiene Survey, ask about privacy while changing materials. For the purposes of global monitoring, data on privacy while changing materials is used as a proxy of women and girls having a private place to wash and change.

While the single question from MICS6 and DHS8 is wellaligned with the global indicator, separate questions would permit disaggregated information on access to a private place to change and a private place to wash the body and menstrual materials. Research is needed on the reliability and utility of asking separately about changing, bathing or washing materials, as well as the performance of different approaches to assess privacy, which can be interpreted differently<sup>35</sup>.

<sup>35</sup> Larson, E, et al., 'Capturing menstrual health and

in Niamey, Niger'. Journal of Water. Sanitation and Hygiene for Development, 11(2), 295-303, 2021.

hygiene in national surveys: insights from performance monitoring and accountability 2020 resident enumerators The proportion of women and girls, age 15 to 49, who reported having a private place to wash and change during menstruation was high in most of the 39 countries with data available. While only 52%, 56% and 74% of women and girls had a private place to wash and change in Niger, Tunisia and Burkina Faso, respectively, coverage in the remaining 36 countries ranged from 80% (Côte d'Ivoire, Ethiopia, and the occupied Palestinian territory) to 99% (Costa Rica, the Democratic People's Republic of Korea, Serbia, and Turkmenistan) (Annex 6). However, coverage was often lower in rural areas compared to urban settings (Figure 94). In 12 of the 39 countries, at least 10% of women and girls living in rural areas did not have a private place to wash and change. Over half of those living in rural areas of Niger lacked a private place.

In Kenya, 69% of women changed their menstrual materials in a sanitation facility at home, 5% used sanitation facilities at school, work or other public facilities, 23% changed in their sleeping area, and 3% used their backyard, no facility, or other. In Burkina Faso, the most common location was the sleeping area (46%); followed by a sanitation facility at home (43%); backyard, no facility, or

other (11%); and a sanitation facility in a public location (<1%). Further research is required to understand the menstrual health-related WASH needs of women and girls at home, work, school and other public places.

PMA surveys from seven countries had additional details on the condition of the place where women wash and change their menstrual materials, including if the location is private, clean, safe, had a lock, and had soap and water available. In all seven countries, over half of women reported that the place was private (ranging from 52% in Niger to 95% in Indonesia). Availability of soap and water was the least prevalent feature in four of the seven countries (Côte d'Ivoire, Ghana, Kenva and Niger), while having a lock was the feature most often missing in the other three (Ethiopia, Indonesia and Uganda). Less than 10% of women in Niger reported that they had soap and water available in the place they most often wash and change during menstruation, and only 1% of women had all the elements for which data were collected. In Ethiopia, nearly two-thirds (63%) of women reported that the location was private, but only 38% and 40% of women reported that that it was clean and safe, respectively.

SOURCE	YEAR	QUESTION
Guidance on Monitoring Menstrual Health and Hygiene	2020	During your last menstrual period, were you able to wash and change in privacy while at home?
MICS6 Questionnaire for Individual Women	2017-2020	
DHS-8 Woman's Questionnaire	2020	
PMA 2020 Female Questionnaire	2016-2019	Where do you most often change your used pads, cloths, or other sanitation materials?
		While managing your menstruation, was this place private?
National Hygiene Survey	2018	আপনার পরবাির মোসকিরে কাপড়/ প্যাড বদলানারে সময় আপনার ব্যক্তগিত গাপেনীয়তা রক্ষা করত কেনে সমস্যা হয় ক? Is there any problem with privacy when changing menstrual cloths/pads'
	Guidance on Monitoring Menstrual Health and Hygiene MICS6 Questionnaire for Individual Women DHS-8 Woman's Questionnaire PMA 2020 Female Questionnaire	Guidance on Monitoring Menstrual Health and Hygiene2020MICS6 Questionnaire for Individual Women2017-2020DHS-8 Woman's Questionnaire2020PMA 2020 Female Questionnaire2016-2019

TABLE 5 Examples of questions used to collect data on having a private place to wash and change

the availability of water and soap

While few surveys gathered data on where women wash and change their menstrual materials, household data on basic hygiene services reflect a lack of soap and water more generally. This may suggest that the current indicator often reflects access to a private place to change more than a private place to wash though further research is needed.

Figure 95 shows national data on the proportion of women, age 15 to 49, with a private place to wash and change from surveys conducted between 2016 and 2020, compared with JMP estimates for basic hygiene service in 2020. In Burkina Faso, 74% of women had a private place to wash and change during menstruation, while 9% had a handwashing facility with water and soap available at home. Similarly, in Lesotho, 95% had a private place compared with only 6% with basic hygiene services. In the occupied Palestinian territory, including east Jerusalem, and Iraq, 80% and 94% of women had a private place and 92% and 97% had basic handwashing facilities, respectively.

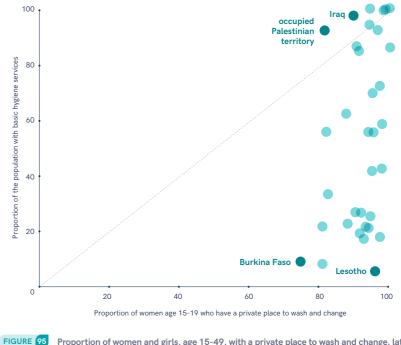
#### In 12 countries with data, at least 1 in 10 women in rural areas lacked a private place to wash and change during their last period

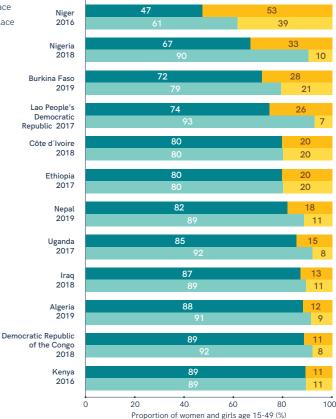
Rural: private place Urban: private place

Rural: lacking a private place Urban: lacking a private place



with soap and water at home





Proportion of women who had a private place to wash and change, selected surveys,

### In most countries with data, women and girls were more likely to have a private place to wash and change than access to handwashing facilities

Proportion of women and girls, age 15-49, with a private place to wash and change, latest survey with data available, 2016-2020, and proportion of the population with handwashing facilities with soap and water available at home based on 2020 JMP estimates

### **Participation**

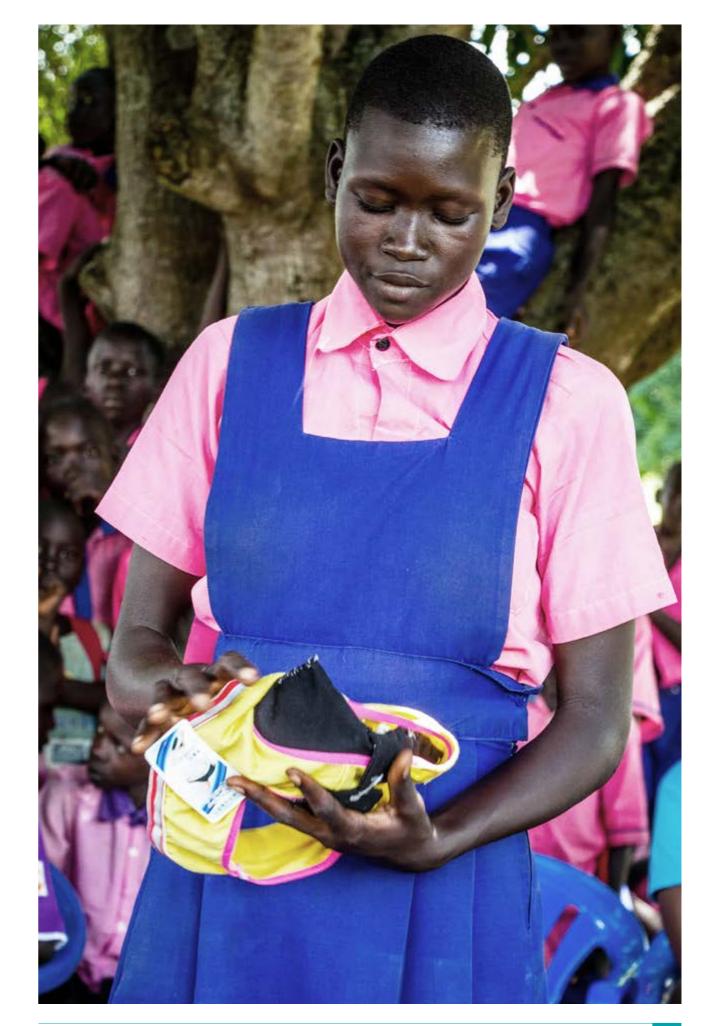
Questions on participation during menstruation often vary between survey programmes and countries, due to context-specific activities, social norms and taboos. However, most surveys ask about participation in school, work and social activities for those who typically participate in these activities. The standard MICS questionnaire asks about participation in a single question, while other surveys, such as the PMA and Bangladesh National Hygiene Survey, or the question added to the MICS in Nepal, ask about different activities separately (Table 6).



COUNTRY	SOURCE	YEAR	QUESTION							
N/A	Guidance on Monitoring Menstrual Health and Hygiene	2020	During your last menstrual period, did you miss any of the following activities due to your period? Select NA (not applicable) if the woman would not normally do this activity, for example she does not normally attend school, work, or social activities.							
			<ul> <li>Attending school: Yes/No/NA</li> <li>Paid work: Yes/No/NA</li> <li>Participating in social activities: Yes/No/NA</li> <li>[Other context specific activity]: Yes/No/NA</li> </ul>							
MULTIPLE	MICS6 Questionnaire for Individual Women	2017-2020	Due to your last menstruation, were there any social activities, school or work days that you did not attend?							
MULTIPLE	PMA 2020 Female Questionnaire	2016-2019	Aside from your own housework, have you done any work in the last month? (If yes) Due to your last menstrual period, were there any work days in the last month that you did not attend?							
			Did you attend school at any time in the past 12 months? (If yes) Due to your menstrual period, were there any school days in the past 12 months that you did not attend?							
BANGLADESH	National Hygiene Survey	2018	মাসকি চলাকালীন সময়কেনে কাজগুলনে করতনেষিথে করা হয়? What activities are forbidden during menstruation?							
			<ul> <li>Can't go to certain places</li> <li>Can't catch certain things</li> <li>Cannot take certain foods</li> <li>Not allowed to cook</li> <li>Not allowed to go out</li> <li>Abstain from religious work</li> <li>Nothing is forbidden</li> <li>Other</li> </ul>							
NEPAL	MICS6 Questionnaire for Individual Women	2019	Do you have to have the following conditions during your menstrual period? <ul> <li>Staying in an chaupadi/chhapro</li> <li>Staying in a separate room in the same house</li> <li>Staying in the cowshed</li> <li>Eating in a separate place</li> <li>Bathing in a separate place</li> <li>Staying away from school or work</li> <li>Staying away from social gatherings/meetings</li> <li>Staying away from religious work/temple visit</li> </ul>							

TABLE 6 Examples of questions used to collect data on participation in activities during menstruation





#### Non-participation during menstruation varies by geographical, socio-economic and individual characteristics





• Richest • Poorest

Secondary or higher
 Primary, pre-primary or none

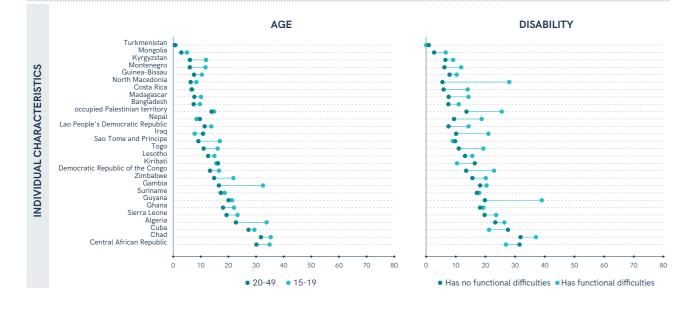


FIGURE 98 Proportion of women and girls, age 15-49, not participating in school, work or social activities during their last period, by population subgroups (%)

Harmonized data from the MICS survey on participation in school, work and social activities, as well as disaggregates of area (urban/rural), sub-national region, wealth quintile, education level, age, and disability, were available for 28 countries (Figure 96).

On average, non-participation was higher among girls and younger women (age 15 to 19, compared with women age 20 to 49). However, since respondents were asked about school, work and social activities in a single question, this difference may reflect a difference in the typical activities for each age group. For example, girls and younger women may be more likely to be enrolled in school compared with older women who may be more likely to work. PMA surveys in Burkina Faso, Côte d'Ivoire and Nigeria collected data on school and work separately, and found that 15%, 20% and 23% missed school in the past 12 months, respectively, while 16%, 22% and 17% missed work in the last month.

There was no clear pattern for participation disaggregated by area (urban/rural), wealth quintile or education level. However, in some countries, there were significant gaps between population sub-groups. For example, in Cuba, 32% of women in rural areas did not participate in one or more of the three activities during their last menstrual period, compared

with 25% of women in urban areas. Women from the poorest households in Nepal were four times less likely to participate than women from the richest. And non-participation was 11 % pts higher for women in Gambia with primary school education or lower (26%) compared with women who completed secondary school or higher (15%). Non-participation does not necessarily reflect restrictions or exclusion but may also be a reflection of not having the resources to meet their menstrual needs at school, work, or where social activities take place, or women's choice to not participate. While in some countries, wealthier women and women with a higher level of formal education were, on average, more likely to participate in their typical activities during menstruation, in other countries they were not. The proportion of women who participate in their typical activities does not always reflect women's freedom to participate.

Large gaps in non-participation were identified between sub-national regions and between women with and without a disability<sup>36</sup>. The number and size of sub-national regions varies widely between countries, but there were often big differences in participation between the highest

<sup>36</sup> Respondents were classified as having a disability if they had some difficulty in at least one functional domain. Questions on disability in the MICS6 questionnaire cover six functional domains: seeing, hearing, walking cognition, self-care, and communication. Each question has four response categories: (1) No, no difficulty, (2) Yes, some difficulty, (3) Yes, a lot of difficulty and (4) Cannot do it at all. <https://www.washingtongroup-disability.com/>

In Nepal, the poorest women and girls are less likely to participate in activities during their periods



FIGURE 97 Proportion of women and girls age 15-49, not participating in activities during their last period, by wealth quintile (%)

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and lowest sub-national regions. For example, in Cuba less than 1% of women in Las Tunas Province did not participate in school, work or social activities during their last menstruation, while 73% of women in Camagüey did not participate. The average gap between sub-national regions was four-fold across the 28 countries. In Nepal and Lao People's Democratic Republic, women in some sub-national regions were more than 20 times more likely to not participate in their usual activities due to their menstrual period than women in other sub-national regions. In many countries, women with a disability were half as likely to participate during menstruation. In North Macedonia, women with a disability were five times less likely to participate compared with women without a disability.

The additional question asked in the Nepal 2019 MICS highlights much higher rates of non-participation for activities other than school, work or social activities, particularly for women from the poorest households (Figure 97). Many of the poorest women ate, bathed and/ or slept in a separate place from family members. There was only one activity where levels of nonparticipation were not correlated with wealth: nearly all women across all wealth quintiles stayed away from religious work and temples during their menstrual period.

### Leave no one behind

Some national data sources also report menstrual health indicators disaggregated by nationally-defined ethnicity, ethno-linguistic group, or skin color (Figure 98).

In some countries, the gap for some indicators between ethnic groups was small, while in others it was substantial. In Lao People's Democratic Republic, the gap between population sub-groups was small for participation in activities during menstruation, but there was a gap of more than 30 % pts between Mon-Khmer and Lao-Tai for the proportion with a private place to wash and change and the proportion who use menstrual materials. In the Central African Republic, there was a smaller gap between ethnic groups for a private place to wash

and change and use of menstrual materials, while Haoussa women (80%) were much more likely to participate in school, work and social activities during their menstrual period than Mboum women (59%). The gap between ethnic groups in Kyrgyzstan was less than 3 % pts for all three indicators.

Managing menstruation can be an even greater struggle for the more than 2.6 million women and girls living in emergency settings<sup>37</sup>. The United Nations High Commissioner for Refugees (UNHCR) set a target that in post-emergency contexts at least 90% of women of reproductive

<sup>37</sup> Columbia University Mailman School of Public Health, 'GATE: Menstruation & emergencies', Columbia University Mailman School of Public Health, <www.publichealth. columbia.edu/research/gate/menstruation-emergencies>, accessed 3 June, 2021.

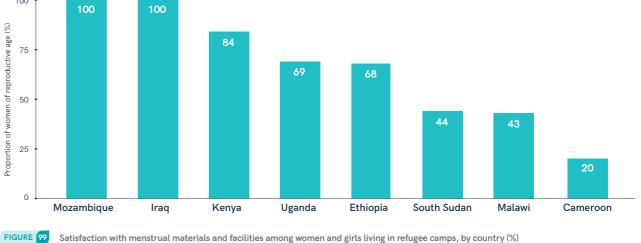
age should be satisfied with the menstrual materials and facilities available to them<sup>38</sup>. This indicator is monitored through annual Knowledge, Attitudes and Practices surveys. Data from refugee camps in eight countries show a wide range of satisfaction levels, with only two of the eight meeting the 90% target (Figure 99). Nearly all women reported they were satisfied with the menstrual materials and facilities in Mozambique and Iraq, compared with less than half of women in refugee camps in South Sudan, Malawi and Cameroon.

<sup>38</sup> UNHCR, UNHCR Refugee WASH Indicators and Taraets, UNHCR, 2020, <https://wash.unhcr.org/ download/wash-indicators-and-targets>. The UNHCR defines an emergency as the first six months after the population movement has stabilized but notes that the definition is context specific and should only serve as general guidance.



Disaggregated data reveal significant inequalities in menstrual health between ethnic groups





MENSTRUAL HEALTH

19 or)	Guyana 2020 (Ethnicity)	Kyrgyzstan 2018 (Ethnicity)	Serbia 2019 (Ethnicity)
nestizo			
	95 African/Black	95 Russian 93 Kyrgyz	99 Bosnian 93 Roma
	87 Amerindian		
nestizo	97 African/Black 95 Amerindian	98 Other etchnicity 96 Uzbek	100-Bosnian 98 Hungarian
		95 Other etchnicity 93 Kyrgyz	92 Roma
nestizo	81 Mixed Race		84 Hungarian
	77 Amerindian		
erials, and	with a private place to	wash and change during	g their last period,
riginal surve	y reports.		



# Annexes

### Annex 1: METHODS

Since it was established in 1990, the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) has been instrumental in developing global norms to benchmark progress on drinking water, sanitation and hygiene (WASH), and has produced regular progress updates on country, regional and global trends. The JMP is responsible for global monitoring of SDG targets related to WASH and collaborates with other custodian agencies through the UN-Water Integrated Monitoring Initiative for SDG6 (IMI-SDG6).

The JMP regularly convenes expert task forces to provide technical advice on specific issues and methodological challenges related to WASH monitoring,

and has established a Strategic Advisory Group to provide independent advice on the continued development of the global monitoring programme. The JMP works with a wide range of WASH sector stakeholders to progressively improve the availability and quality of national data on WASH services, and on disaggregations to highlight inequalities<sup>39</sup>.

The following is a brief summary of the JMP methodology<sup>40</sup> used for the 2021 progress update. Methodological refinements since the 2019 progress update are listed in Box A-1.

 $^{\scriptscriptstyle 39}\,$  For further details on how the JMP works, see <https://washdata.org/how-we-work/about-jmp> <sup>40</sup> JMP methodology: 2017 update and SDG baselines, WHO and UNICEF <a href="https://washdata.org/report/jmp-methodology-2017-update">https://washdata.org/report/jmp-methodology-2017-update</a>.

#### BOX A1 REFINEMENTS TO JMP METHODS IN THE 2021 UPDATE

- 1. Increase in number of datasets used to generate estimates, from 3,838 to 4,426
- 2. Producing estimates up to the year prior to publication, rather than two years prior to publication (the 2019 report covered the period 2000 to 2017).
- 3. Producing estimates for trends in hygiene services, in light of increased data availability.
- 4. Extrapolating current trends to 2030, and calculating the acceleration required to meet SDG targets.
- 5. Presentation of national statistics for a subset of countries with survey data on 'basic WASH services' (proportion of

#### Data collection and validation

JMP estimations begin with the compilation of official national data sources that contain information about household drinking water, sanitation and hygiene services. The JMP has also expanded its databases to incorporate harmonized indicators on menstrual health, which are increasingly included in household surveys.

The biennial data collection cycle for JMP household estimates begins in the fourth quarter of an even year, and estimates are published in the second guarter of the following year. The data search involves systematically visiting the websites of national statistical offices, key sector institutions such as ministries of water and sanitation, and regulators of WASH services. Other regional and global databases are also reviewed for new datasets. UNICEF and WHO regional and country offices provide support to identify newly available datasets, in consultation with national authorities.

The JMP maintains Excel country files<sup>41</sup> for each of the 234 countries, areas and territories for which population data are available. These files provide a list of the national data sources available to the JMP and show how individual data inputs have been used to generate internationally comparable estimates. Before publication, draft estimates are circulated to WHO and UNICEF country offices for a two-month period for technical consultation and feedback from national authorities<sup>42</sup>.

The primary purpose of global monitoring is to produce internationally comparable estimates that can be used to benchmark and compare progress across

<sup>42</sup> For further details on JMP country consultations see the JMP website <https://washdata.org/how-we-work/ imp-country-consultation>





the population living in households with basic drinking water, basic sanitation, and basic hygiene services).

- 6. Presentation of national statistics for a subset of countries with survey data on menstrual health (awareness, use of materials, a private place to wash and change, and participation in activities during menstruation).
- 7. Increase in the number of countries with inequalities files containing survey data disaggregated by wealth quintile and by sub-national region, from 96 to 105.

countries. The JMP uses a standard methodology to generate estimates for all countries. These sometimes differ from national statistics, which may use different definitions and/ or methods<sup>43</sup>. The purpose of the consultation is not to compare JMP and national statistics on WASH coverage, but to review the completeness or correctness of the datasets in the JMP country file and verify the interpretation of national data in the JMP estimates.

<sup>&</sup>lt;sup>43</sup> The JMP produces modelled estimates based on a regression of all available data points, whereas national tistics are often based on the most recent data point from a single data source. The JMP uses standardized population estimates produced by the UN Population Division which may differ from national figures



<sup>&</sup>lt;sup>41</sup> JMP country files can be downloaded from <https://washdata.org/data/downloads#>

### **JMP** definitions

While compiling all relevant data from official national sources, the populations using different types of drinking water and sanitation infrastructures are classified as using **improved** and **unimproved** facilities, or having no facilities at all (Table A-1). Improved drinking water sources are those that have the potential to deliver safe water by nature of their design and construction, while improved sanitation facilities are those designed to hygienically separate excreta from human contact.

Data are also collected on the level of service households receive, which are used to subdivide the population using improved facilities into those with safely managed, basic or limited drinking water and sanitation services. In addition, data are collected on the availability of handwashing facilities with soap and water at home, which are used to categorize populations as having basic, limited, or no handwashing services.

### Data sources and coverage

The JMP global database includes data inputs from: national data sources such as censuses, household surveys and administrative data; secondary datasets compiled by international or regional initiatives (for example, the European Protocol on Water and Health, the Statistical Office of the European Union, the International Benchmarking Network, and the MDG+ initiative for Arabic countries); studies conducted by research institutes; and technical information received during country consultations.

The 2021 JMP update drew on a total of 6,743 data sources, 4,426 of which were used to produce estimates (Figure A-1). Similar numbers of datasets were used for drinking water services (n=3,283) and sanitation services (n=3,243), but there were

	DRINKING WATER	SANITATION
IMPROVED FACILITIES	<ul> <li>Piped supplies</li> <li>Tap water in the dwelling, yard or plot, including piped to a neighbour</li> <li>Public taps or standpipes</li> <li>Non-piped supplies</li> <li>Boreholes/tubewells</li> <li>Protected wells and springs</li> <li>Rainwater</li> <li>Packaged water, including bottled water and sachet water</li> <li>Delivered water, including tanker trucks and small carts/tanks/drums</li> <li>Water kiosks</li> </ul>	<ul> <li>Networked sanitation</li> <li>Flush and pour-flush toilets connected to sewers</li> <li>On-site sanitation</li> <li>Flush and pour-flush toilets or latrines connected to septic tanks or pits</li> <li>Ventilated improved pit (VIP) latrines</li> <li>Pit latrines with slabs (constructed from materials that are durable and easy to clean)</li> <li>Composting toilets, including twin pit latrines with slabs and container-based systems</li> </ul>
UNIMPROVED FACILITIES	Non-piped supplies <ul> <li>Unprotected wells and springs</li> </ul>	<ul> <li>Networked sanitation</li> <li>Flush and pour-flush toilets flushed to an open drain or elsewhere<sup>9</sup></li> <li>On-site sanitation <ul> <li>Pit latrines without slabs</li> <li>Open pits</li> <li>Hanging toilets/latrines</li> <li>Bucket latrines, including pans, trays or other unsealed containers</li> </ul> </li> </ul>
NO FACILITY	Surface water <ul> <li>Open water sources located above ground, including rivers, lakes, ponds, streams, canals, reservoirs or irrigation channels</li> </ul>	<ul> <li>Open defecation</li> <li>Defecation in the bush, fields or ditches</li> <li>Defecation into surface water, including beaches, rivers, streams, the sea, or drainage channels</li> </ul>

#### TABLE A1 JMP classification of improved and unimproved facility types

<sup>6</sup> A survey response of 'flush/pour-flush to elsewhere' suggests that excreta are not being discharged into a sewer, septic tank or pit latrine but into the local environment, and that the facility should therefore be classified as unimproved.

#### National data sources used for the JMP 2021 progress report

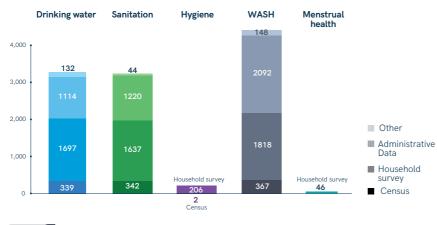


FIGURE A1 Number of data sources used in JMP 2021 report

comparatively few datasets with information on hygiene (n=208) and menstrual health (n=46).

The population data used in this report, including the proportion of the population living in urban and rural areas, are published by the United Nations Population Division. National populations were taken from the 2019 Revision of World Population Prospects (standard projections for estimates up to 2020 and probabilistic projections for 2030 figures), while the proportion of the population living in urban and rural areas was taken from the 2018 Revision of World Urbanization Prospects.

#### Data disaggregation

JMP estimates are routinely disaggregated by service level (no service, unimproved, limited, basic, and safely managed services) based on the SDG service ladders presented in the main report. Where possible, estimates are also disaggregated by other relevant geographic, socioeconomic and individual stratifiers of inequality. The JMP global database now includes inequalities files for 105 countries, which contain harmonized facility types and service level estimates disaggregated by subnational region and wealth quintile, based on recent surveys.

#### Sub-national regions refer to

administrative regions below the national level (known as admin-2), such as divisions, provinces, states and regions. Due to the limited number of surveys with disaggregated data available for the same subnational regions, trends were not estimated for this update. Wealth quintiles (richest, rich, middle, poor, poorest) can be calculated based on household income and expenditure surveys or domestic assets as recorded in household surveys. For monitoring inequalities in WASH, the JMP creates customized wealth quintiles based on domestic assets but excluding WASH infrastructure. These calculations are shown in the JMP inequalities files, along with trends estimated using JMP regression rules.

Data on access to WASH services are typically collected at the household level rather than the individual level, which means it is not possible to routinely analyse intra-household inequalities. However, menstrual health indicators can be disaggregated by the individual characteristics of women and girls age 15 to 49 (for example, age, functional difficulties, ethnicity, education level).

The JMP seeks to highlight datasets that allow other types of disaggregation. For example,

this report presents data from REACH-supported Multi-Sector Needs Assessments<sup>44</sup> of vulnerable populations in emergency settings which can be further disaggregated into displaced and non-displaced populations, as well as from UNHCR data on WASH services in refugee camps<sup>45</sup>.

# Data analysis and country estimates

For each country, the JMP develops estimates for WASH indicators by fitting regression lines to the collected data inputs, using data from 2000 onwards. If a country has only one data point or two data points less than five years apart, the JMP creates estimates using a simple average, which is extended for four years beyond the most recent data point. If there are two or more data points, covering a span of at least five years, the JMP applies linear regression with extrapolation for up to two years forwards and backwards from the last data point, and extends estimates for up to four more years<sup>46</sup>.

Ordinary least squares regression is used to estimate the proportion of the population using improved drinking water sources, as well as the population collecting drinking water directly from surface water sources. The population using unimproved drinking water sources is calculated by difference. Similarly, linear regressions estimate the proportion of the population using improved sanitation facilities (including shared facilities), and the proportion of the population practising open defecation, with the population using unimproved sanitation facilities calculated by difference. Separate linear regressions are made for specific types of improved

 <sup>44</sup> REACH Resource Centre, 'Multi-sector assessments', REACH, <www.reachresourcecentre.info/theme/ multi-sector-assessments>
 <sup>45</sup> 'WASH indicators dashboard', UNHCR, <https://wash. unhcr.org/wash-dashboard-for-refugee-settings/>
 <sup>46</sup> JMP methodology: 2017 update and SDG baselines, WHO and UNICEF <https://washdata.org/report/ jmp-methodology-2017-update>. facilities: piped drinking water, sewer connections, and septic tanks. The remaining population using improved facilities is classed as using non-piped improved water sources, or latrines and other improved sanitation facilities.

Additional regressions are made to distinguish between basic and limited drinking water and sanitation services. The population that shares an improved sanitation facility is subtracted from the trend estimates of the population using improved sanitation facilities to produce the estimate of the population using at least basic sanitation services. Likewise, trends are estimated for the proportion of the population using improved drinking water sources requiring more than 30 minutes for collection. These are subtracted from the trend estimates of improved drinking water sources to generate estimates of the population using at least basic drinking water services<sup>47</sup>. Linear regression is used to estimate basic handwashing services, drawing on data on the population observed to have handwashing facilities with soap and water at home.

Separate regressions are used for urban and rural areas, and the resulting population estimates are combined to generate national estimates for basic services.

While the data required to estimate basic drinking water, sanitation and hygiene services are readily available for most countries, the JMP has not been able to find sufficient data to estimate safely managed drinking water and sanitation services in all countries, and sometimes data are not representative of entire national populations. The JMP only makes country-level estimates if data are available for at least 50% of the relevant population.

<sup>&</sup>lt;sup>47</sup> Since safely managed drinking water and sanitation services meet the criteria for basic services, the statistics on the population with basic services often include the population with safely managed services. The JMP uses the term 'at least basic services' to be clear that the statistic refers to populations with either basic or safely managed services.

To calculate **safely managed drinking** water services, the JMP uses linear regression to separately estimate the proportion of improved drinking water sources used that are:

- accessible on premises, and
- available when needed, and
- free from contamination

These values are multiplied by the proportion of the population using improved drinking water sources to estimate the populations using improved water sources that are accessible on premises, available when needed, and free from contamination. The JMP then uses the minimum of these three values to estimate safely managed drinking water services. Many countries lack data on one or more criteria for safely managed drinking water. The JMP only produces estimates for safely managed drinking water services when data are available on drinking water quality and at least one of the other criteria (accessibility and availability).

To calculate safely managed sanitation services, the JMP uses linear regression to estimate the proportion of improved sanitation facilities from which:

- excreta are treated and disposed of in situ, or
- excreta are emptied and treated off-site, or
- wastewater is treated off-site

These values are multiplied by the proportion of the population using sewer connections or improved on-site sanitation facilities that are not shared, and added together to produce estimates of the total population using safely managed sanitation services. Many countries lack information on either the treatment of wastewater or the treatment of excreta from on-site sanitation facilities. The JMP only produces national estimates when data are available for the dominant type of sanitation system (sewered or on-site sanitation). If data are available for the dominant but not the non-dominant type of sanitation system, the JMP assumes 50% of the non-dominant type of sanitation is safely managed.



### Regional and global estimates

Regional and global estimates for basic water, sanitation and hygiene services are only made when data are available for at least 50% of the regional or global population. The JMP calculates population-weighted averages for rural and urban areas of each region<sup>48</sup> and assigns these to any countries without a national estimate for the reference year. The JMP does not use these 'imputed' statistics to produce country-level estimates.

Populations using basic, limited, unimproved and no services are then summed for each regional grouping (see Annex 2 for the regional groupings used in this report), and population-weighted rural and urban estimates are combined to calculate the regional and global populations with each level of service. An equivalent approach is taken for facility types (sewer, septic tank, latrine; piped, non-piped improved) with estimates weighted by the population using improved drinking water and sanitation facilities, rather than the total population.

Regional and global estimates for individual elements of safely managed services are calculated by summing up country-level estimates (including 'imputed' estimates for countries lacking data), if actual data are available for at least 30% of the relevant population.

The three criteria for **safely** managed drinking water services are calculated as weighted averages among the urban, rural and national populations, provided that data are available for at least 30% of the regional population using improved drinking water. These ratios are then multiplied by the proportion of the population using improved drinking water in each region. Following

<sup>48</sup> Using the M49 sub-regions. See <https://unstats. un.org/unsd/methodology/m49/overview/>

the approach taken for countries, the proportion of the population using safely managed drinking water services is then calculated at regional and global levels by taking a minimum of the three criteria for urban and rural areas. Where possible, a weighted average of the rural and urban populations is used to produce regional and global total estimates.

#### For safely managed sanitation

services, regional estimates are calculated based on the populations using sewer connections or improved on-site sanitation systems (septic tanks, latrines and other improved facilities). Estimates are only calculated where data are available for at least 30% of the population using the dominant form

of sanitation (sewer connections or on-site sanitation). The population using sewer connections is used to weight estimates of the proportion of wastewater treated, while the population using on-site facilities is used to weight estimates of excreta disposed of in situ. Data are currently insufficient to allow regional or global estimates to be made for the proportion of people using on-site sanitation facilities with excreta emptied and treated off-site.

Regional and global estimates of the population using safely managed sanitation services are calculated by adding together the populations with wastewater treated and excreta disposed of in situ for rural and urban areas. Where data coverage is below 30% for the non-dominant

	JMP website: https://washdata.org/ JMP reports: https://washdata.org/reports JMP data: https://washdata.org/data JMP country files and inequalities files: https://washdata.org/dat JMP methodological note: https://washdata.org/report/jmp-met
CROSS-CUTTING	Core questions on drinking water, sanitation and hygiene for hou https://washdata.org/report/jmp-2018-core-questions-househo
	The measurement and monitoring of water supply, sanitation and monitoring of Sustainable Development Goal (SDG) Targets 6.1 a https://washdata.org/report/unicef-who-2021-affordability-wash
	Bain, R. et al. "Establishing Sustainable Development Goal Basel Services". Water, 10(1711), 2018. https://doi.org/10.3390/w10
DRINKING WATER	Integrating water quality testing into household surveys. https://washdata.org/report/jmp-2020-water-quality-testing-hou
	WHO Guidelines for Drinking Water Quality, 4th edition, incorpo https://www.who.int/teams/environment-climate-change-and-he drinking-water-quality-guidelines
SANITATION	WHO Guidelines on sanitation and health. Geneva: World Health https://www.who.int/teams/environment-climate-change-and-he guidelines-on-sanitation-and-health
SANITATION	Ending the neglect to attain the sustainable development goals. Combat Neglected Tropical Diseases 2021–2030. https://www.w water-sanitation-and-health/burden-of-disease/wash-and-negle
HYGIENE	Ram, P. et al 2013 Practical Guidance on Measuring Hand Hygie <https: files="" publications="" sites="" wsp-prac<br="" wsp.org="" www.wsp.org="">Update.pdf&gt;</https:>
	COVID-19 Hygiene Hub <https: covid-19="" en="" hygienehub.info=""></https:>
	UNICEF, Guidance for Monitoring Menstrual Health and Hygiene https://washdata.org/sites/default/files/2020-11/UNICEF-2020
MENSTRUAL HEALTH	The Global Menstrual Collective: http://www.globalmenstrualcol
	Hennegan, J, et al., "Menstrual health: a definition for policy, pra Matters, 29(1), 2021. https://doi.org/10.1080/26410397.2021.
TABLE A2 Additional	resources for detailed information on JMP definitions and methods

form of sanitation, estimates are based only on the dominant form of sanitation. Regional and global totals are calculated by weighted averages from rural and urban areas where data permit.

The regional and global estimates for individual elements of safely managed services are calculated where (non-imputed) data are available for at least 30% of the relevant population. To produce estimates for regional or global levels, imputed estimates are produced for countries lacking data. Imputed country estimates are not published and only used for aggregation. For details on the regional groupings used in this report see Annex 2.

ata.org/data/downloads# rt/jmp-methodology-2017-update

ene for household surveys: 2018 update. ns-household-surveys

nitation and hygiene (WASH) affordability: a missing element of argets 6.1 and 6.2. ability-wash-services-full

Goal Baselines for Household Drinking Water, Sanitation and Hygiene 3390/w10121711

-testing-household-surveys

on, incorporating the 1st addendum. nge-and-health/water-sanitation-and-health/water-safety-and-quality/

Vorld Health Organization; 2018. nge-and-health/water-sanitation-and-health/sanitation-safety/

ent goals. A Global Strategy on Water, Sanitation and Hygiene to ps://www.who.int/teams/environment-climate-change-and-health/ -and-neglected-tropical-diseases

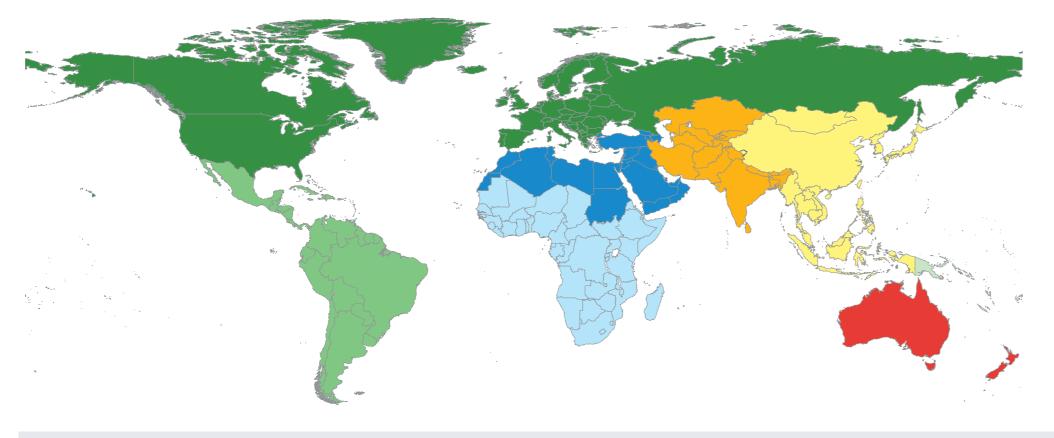
Hand Hygiene Behaviour /WSP-Practical-Guidance-Measuring-Handwashing-Behavior-2013-

and Hygiene, 2020 ICEF-2020-guidance-monitoring-MHH-v1.pdf

enstrualcollective.org

r policy, practice, and research", Sexual and Reproductive Health 397.2021.1911618

## Annex 2: REGIONAL GROUPINGS<sup>49</sup>



### SUSTAINABLE DEVELOPMENT GOALS: REGIONAL GROUPINGS

AUSTRALIA AND NEW ZEALAND: Australia, New Zealand.

**CENTRAL ASIA AND SOUTHERN ASIA:** Afghanistan, Bangladesh, Bhutan, India, Iran (Islamic Republic of), Kazakhstan, Kyrgyzstan, Maldives, Nepal, Pakistan, Sri Lanka, Tajikistan, Turkmenistan, Uzbekistan.

**EASTERN ASIA AND SOUTH-EASTERN ASIA:** Brunei Darussalam, Cambodia, China (Hong Kong Special Administrative Region), China (Macao Special Administrative Region), Democratic People's Republic of Korea, Indonesia, Japan, Lao People's Democratic Republic, Malaysia, Myanmar, Mongolia, Philippines, Republic of Korea, Singapore, Thailand, Timor-Leste, Viet Nam.

■ EUROPE AND NORTHERN AMERICA: Albania, Andorra, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bermuda, Bulgaria, Canada, Channel Islands, Croatia, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Greenland, Holy See, Hungary, Ireland, Iceland, Isle of Man, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, San Marino, Saint Pierre and Miquelon, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom of Great Britain and Northern Ireland, United States of America.

LATIN AMERICA AND THE CARIBBEAN: Anguilla, Antigua and Barbuda, Argentina, Aruba, Bahamas, Barbados, Belize, Bolivia (Plurinational State of), Bonaire, Sint Eustatius and Saba (Caribbean Netherlands), Brazil, British Virgin Islands, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Curaçao, Dominica, Dominican Republic, Ecuador, El Salvador, Falkland Islands (Malvinas), French Guiana, Guadeloupe, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Saint-Barthélemy, Saint Kitts and Nevis, Saint Lucia, Saint-Martin (French part), Saint Vincent and the Grenadines, Sint Maarten (Dutch part), Suriname, Trinidad and Tobago, Turks and Caicos Islands, United States Virgin Islands, Uruguay, Venezuela (Bolivarian Republic of).

NORTHERN AFRICA AND WESTERN ASIA: Algeria, Armenia, Azerbaijan, Bahrain, Cyprus, Egypt, Georgia, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, occupied Palestinian territory including east Jerusalem, Oman, Qatar, Saudi Arabia, Sudan, Syrian Arab Republic, Tunisia, Turkey, United Arab Emirates, Western Sahara, Yemen. OCEANIA (EXCLUDING AUSTRALIA AND NEW

**ZEALAND):** American Samoa, Cook Islands, Fiji, French Polynesia, Guam, Kiribati, Marshall Islands, Micronesia (Federated States of), Nauru, New Caledonia, Niue, Northern Mariana Islands, Palau, Papua New Guinea, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, Wallis and Futuna Islands.

**SUB-SAHARAN AFRICA:** Angola, Benin, Botswana, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mayotte, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, Saint Helena, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Togo, Uganda, United Republic of Tanzania, Zambia, Zimbabwe.

### OTHER REGIONAL GROUPINGS

#### LANDLOCKED DEVELOPING COUNTRIES (LLDCs):

Afghanistan, Armenia, Azerbaijan, Bhutan, Bolivia (Plurinational State of), Botswana, Burkina Faso, Burundi, Central African Republic, Chad, Eswatini, Ethiopia, Kazakhstan, Kyrgyzstan, Lao People's Democratic Republic, Lesotho, Malawi, Mali, Mongolia, Nepal, Niger, North Macedonia, Paraguay, Republic of Moldova, Rwanda, South Sudan, Tajikistan, Turkmenistan, Uganda, Uzbekistan, Zambia, Zimbabwe.

#### LEAST DEVELOPED COUNTRIES (LDCs):

Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Democratic Republic of the Congo, Djibouti, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kiribati, Lao People's Democratic Republic, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Niger, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Timor-Leste, Togo, Tuvalu, Uganda, United Republic of Tanzania, Vanuatu, Yemen, Zambia.

#### SMALL ISLAND DEVELOPING STATES (SIDS):

American Samoa, Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bonaire, Sint Eustatius and Saba (Caribbean Netherlands), British Virgin Islands, Cabo Verde, Comoros, Cook Islands, Cuba, Curaçao, Dominica, Dominican Republic, Fiji, French Polynesia, Grenada, Guadeloupe, Guam, Guinea-Bissau, Guyana, Haiti, Jamaica, Kiribati, Maldives, Marshall Islands, Mauritius, Micronesia (Federated States of), Montserrat, Nauru, New Caledonia, Niue, Northern Mariana Islands, Palau, Papua New Guinea, Puerto Rico, Saint-Barthélemy, Saint Kitts and Nevis, Saint Lucia, Saint-Martin (French part), Saint Vincent and the Grenadines, Samoa, Sao Tome and Principe, Seychelles, Singapore, Sint Maarten (Dutch part) , Solomon Islands, Suriname, Timor-Leste, Tonga, Trinidad and Tobago, Turks and Caicos Islands, Tuvalu, United States Virgin Islands, Vanuatu.

#### FRAGILE CONTEXTS

Afghanistan, Angola, Bangladesh, Burkina Faso, Burundi, Cambodia, Cameroon, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic People's Republic of Korea, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gambia, Guatemala, Guinea, Guinea-Bissau, Haiti, Honduras, Iran, Iraq, Kenya, Lao People's Democratic Republic, Lesotho, Liberia, Libya, Madagascar, Mali, Mauritania, Mozambique, Myanmar, Nicaragua, Niger, Nigeria, occupied Palestinian territory including east Jerusalem, Pakistan, Papua New Guinea, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Syrian Arab Republic, Tajikistan, Tanzania, Togo, Uganda, Venezuela (Bolivarian Republic of), Yemen, Zambia, Zimbabwe.

<sup>&</sup>lt;sup>49</sup> SDG regional groupings, as well as classifications of landlocked developing countries, least developed countries, and small island developing States come from United Nations Statistics Division <a href="https://unstats.un.org/sdgs/indicators/regional-groups/">https://unstats.un.org/sdgs/indicators/regional-groups/</a>. Fragile contexts from OECD <a href="https://uwww.oecd.org/dac/states-of-fragility-fa5a6770-en.htm">https://ustats.un.org/sdgs/indicators/regional-groups/</a>. Fragile contexts from OECD <a href="https://uwww.oecd.org/dac/states-of-fragility-fa5a6770-en.htm">https://ustats.un.org/sdgs/indicators/regional-groups/</a>. Fragile contexts from OECD <a href="https://uwww.oecd.org/dac/states-of-fragility-fa5a6770-en.htm">https://ustats.un.org/sdgs/indicators/regional-groups/</a>. Fragile contexts from OECD <a href="https://uwww.oecd.org/dac/states-of-fragility-fa5a6770-en.htm">https://uwww.oecd.org/dac/states-of-fragility-fa5a6770-en.htm</a>. This report additionally uses income categories from World Bank <a href="https://uatabank.worldbank.org/data/download/site-content/CLASS.xls">https://uatabank.worldbank.org/data/download/site-content/CLASS.xls</a> , as of June 2020.

### Annex 3:

## NATIONAL DRINKING WATER ESTIMATES

		ls)			NA	TION	IAL			F	URA	L			ι	JRBAI	N	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Afghanistan	2015	34 414 38 928	25	61	4 1	22	13 9	2.35	53	4	27	17	2.25	87	2	9	2	2.39
	2020 2015	2 891	26 57	75 93	4	15 3	9 <1		66 91	2 5	20 4	12 <1		>99 95	<1 2	<1 2	<1 <1	
Albania	2020	2 878	62	95	2	3	<1	0.42	94	2	4	<1	0.68	96	2	3	<1	0.00
Algeria	2015	39 728	71	93	5	1	<1	0.23	88	9	3	<1	0.33	95	4	<1	<1	0.09
Algeria	2020	43 851	74	94	5	<1	<1	0.20	90	9	<1	<1	0.00	96	4	<1	<1	0.07
American Samoa	2015	56	87	>99	<1	<1	<1	0.07	-	-	-	-	-	-	-	-	-	-
	2020	55	87	>99	<1	<1	<1		-	-	-	-		-	-	-	-	
Andorra	2015 2020	78 77	88 88	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
	2020	27 884	63	54	11	17	17		27	10	22	42		70	12	15	3	
Angola	2020	32 866	67	57	9	19	14	0.80	28	9	23	41	0.33	72	10	18	<1	0.53
A	2015	14	100	97	<1	3	<1		-	-	-	-		97	<1	3	<1	
Anguilla	2017	15	100	97	<1	3	<1	-	-	-	-	-	-	97	<1	3	<1	-
Antigua and Barbuda	2015	94	25	97	<1	3	<1	_	-	-	-	-	_	-	-	-	-	_
	2017	95	25	97	<1	3	<1		-	-	-	-		-	-	-	-	
Argentina	2015	43 075	92	99	<1	<1	<1	-	93	<1	3	4	-	>99	<1	<1	<1	0.05
Ū	2020	45 196	92	-	-	-	-		-	-	-	-		>99	<1	<1	<1	
Armenia	2015 2020	2 926 2 963	63 63	>99 >99	<1	<1	<1 <1	0.24	>99 >99	<1	<1	<1	0.56	>99 >99	<1	<1	<1	0.06
	2020	2 903	63 43	>99 98	<1 <1	<1 2	<1			<1	<1	<1			<1	<1	<1	
Aruba	2016	105	43	98	<1	2	<1	-	-	-	-	-	-	-	-	-	-	-
	2015	23 932	86	>99	<1	<1	<1		>99	<1	<1	<1		>99	<1	<1	<1	
Australia	2020	25 500	86	>99	<1	<1	<1	0.01	>99	<1	<1	<1	0.05	>99	<1	<1	<1	0.01
Austria	2015	8 679	58	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Austria	2020	9 006	59	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Azerbaijan	2015	9 623	55	92	1	4	2	1.12	84	2	9	5	1.82	>99	<1	<1	<1	0.42
	2020	10 139	56	96	1	3	<1		91	2	7	<1		>99	<1	<1	<1	
Bahamas	2015 2019	374 389	83 83	99 99	<1	1 1	<1 <1	-	-	-	-	-	-	-	-	-	-	-
	2019	1 372	89	>99	<1 <1	<1	<1		-	-	-	-		-	-	-	-	
Bahrain	2013	1 702	90	>99	<1	<1	<1	0.00	-	-	-	-	-	-	-	-	-	-
Devendendensk	2015	156 256	34	97	1	<1	1	0.15	97	1	<1	1	0.01	98	1	<1	<1	0.05
Bangladesh	2020	164 689	38	98	1	<1	<1	0.15	98	<1	<1	<1	0.21	97	2	<1	<1	-0.05
Barbados	2015	285	31	98	<1	1	<1	0.01	-	-	-	-	_	-	-	-	-	-
24, 54405	2020	287	31	99	<1	1	<1	0.01	-	-	-	-		-	-	-	-	
Belarus	2015	9 439	77	96	3	<1	<1	-0.14	98	<1	<1	<1	-0.01	96	4	<1	<1	-0.17
	2020	9 449	79	97	3	<1	<1		99	<1	<1	<1		96	4	<1	<1	
Belgium	2015 2020	11 288 11 590	98 98	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00

`-' = no estimate. For JMP estimate methods see Annex 1. For unrounded estimates see www.washdata.org

		NATIONAL							RURAL						URBAN					
				n of p /ed wa			0					tion u upplie:		Proportion of population using improved water supplies						
COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	
Afghanistan	2015 2020	23 28	37 48	-	23 28	17 22	48 54	20 24	25 35	-	20 24	11 16	46 53	32 36	73 87	-	32 36	35 42	54 58	
Albania	2015 2020	71 71	81 82	71 71	96 96	81 81	16 16	-	78 88	68 68	-	73 76	23 21	-	83 79	72 72	-	87 84	11 14	
Algeria	2015 2020	76 72	77 79	76 72	84 85	75 72	24 28	66 69	66 71	67 69	73 75	62 60	35 39	79 74	82 81	79 74	88 89	80 76	19 24	
American Samoa	2015 2020	96 98	96 99	-	98 98	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	
Andorra	2015 2020	91 91	>99 >99	>99 >99	91 91	>99 >99	<1 <1	-	>99 >99	>99 >99	-	>99 >99	<1 <1	-	>99 >99	>99 >99	-	>99 >99	<1 <1	
Angola	2015 2020	-	33 39	31 31	-	38 42	28 24	-	7 7	24 23	-	9 8	28 28	-	48 55	35 35	-	55 59	27 22	
Anguilla	2015 2017	-	88 88	88 88	-	-	-	-	-	-	-	-	-	-	88 88	88 88	-	-	-	
Antigua and Barbuda	2015 2017	-	75 75	90 90	-	94 94	2 2	-	-	-	-	-	-	-	-	-	-	-	-	
Argentina	2015 2020	-	97	-	-	96 -	3	-	86 -	-	-	82	11 -	-	98 >99	-	-	98 99	2 <1	
Armenia	2015 2020	84 87	98 >99	91 92	84 87	97 >99	2 <1	-	97 >99	91 92	-	94 >99	5 <1	-	99 >99	91 91	-	>99 >99	<1 <1	
Aruba	2015 2016	-	96 96	-	-	94 94	4 4	-	-	-	-	-	-	-	-	-	-	-	-	
Australia	2015 2020	-	97 97	96 96	-	91	9	-	88 88	-	-	84	16	99 99	99 99	-	>99 >99	92	8	
Austria	2015 2020	99 99	>99 >99	99 99	>99 >99	-	-	-	>99 >99	>99 >99	-	-	-	-	>99 >99	99 99	-	-	-	
Azerbaijan	2015 2020	85 88	87 90	-	89 92	81 91	12 6	72 78	72 78	-	81 87	64 79	22 14	96 96	>99 >99	-	96 96	96 >99	4 <1	
Bahamas	2015 2019	-	98 98	-	-	97 97	2 2	-	-	-	-	-	-	-	-	-	-	-	-	
Bahrain	2015 2020	99 99	99 99	>99 >99	>99 >99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bangladesh	2015 2020	56 59	77 82	95 96	56 59	13 15	85 83	61 62	74 81	95 96	61 62	2 3	96 96	47 53	82 84	96 96	47 53	35 36	64 63	
Barbados	2015 2020	-	98 98	89 89	-	99 99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	
Belarus	2015 2020	94 95	94 95	-	99 >99	92 96	8 4	-	94 94	-	-	74 85	26 14	-	95 95	-	-	97 >99	3 <1	
Belgium	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	

		s)			NA	TION	AL			F	URA	L			U	RBAI	И	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Belize	2015	361 398	45	97	1	2	<1	0.55	96	1	3	<1	0.69	>99	<1	<1	<1	0.38
Benin	2020 2015 2020	10 576 12 123	46 46 48	98 65 65	1 9 9	<1 21 22	<1 5 3	0.16	98 57 58	1 12 13	<1 24 24	<1 8 5	0.27	99 74 73	1 5 6	<1 18 20	<1 2 1	-0.21
Bermuda	2015 2020	64 62	100 100	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	-0.00
Bhutan	2015 2020	728 772	39 42	96 97	2 2	<1 <1	<1 <1	0.70	95 97	3 3	<1 <1	1 <1	0.88	98 98	1 1	<1 <1	<1 <1	0.12
Bolivia (Plurinational State of)	2015 2020	10 870 11 673	68 70	90 93	<1 <1	3 2	7 5	0.67	74 80	<1 <1	6 4	20 16	1.24	98 >99	<1 <1	1 <1	<1 <1	0.19
Bosnia and Herzegovina	2015 2020	3 429 3 281	47 49	96 96	4 4	<1 <1	<1 <1	-0.06	97 97	3 3	<1 <1	<1 <1	0.05	95 95	5 5	<1 <1	<1 <1	-0.19
Botswana	2015 2020	2 121 2 352	67 71	88 92	8 5	2 2	2 1	0.85	72 79	22 15	2 2	4 4	1.27	97 98	2 <1	1 2	<1 <1	0.17
Brazil	2015 2020	204 472 212 559	86 87	98 >99	<1 <1	<1 <1	1	0.29	89 96	3 <1	<1 3	8	1.13	>99 >99	<1 <1	<1 <1	<1 <1	0.08
British Virgin Islands	2015 2020	29 30	47 49	>99 >99	<1 <1	<1 <1	<1 <1	0.23	-	-	-	-	-	-	-	-	-	-
Brunei Darussalam	2015 2020	415 437	77 78	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 -	<1 -	<1 -	<1	-	>99 >99	<1 <1	<1 <1	<1 <1	0.00
Bulgaria	2015 2020	7 200 6 948	74 76	>99 >99	<1 <1	<1 <1	<1 <1	-0.04	98 97	<1 <1	2 3	<1 <1	-0.12	>99 >99	<1 <1	<1 <1	<1 <1	-0.02
Burkina Faso	2015 2020	18 111 20 903	28 31	50 47	26 31	22 21	2 <1	-0.54	39 33	30 39	29 28	2 <1	-1.04	80 80	14 15	6 5	<1 <1	0.05
Burundi	2015 2020	10 160 11 891	12 14	60 62	20 19	15 15	6 4	0.58	56 58	21 21	17 17	7 4	0.49	89 91	8 8	2 1	1 <1	0.43
Cabo Verde	2015 2020	525 556	64 67	85 89	10 8	4 3	<1 <1	0.48	73 80	16 10	10 10	<1 <1	0.50	92 93	7 7	<1 <1	<1 <1	0.31
Cambodia	2015 2020	15 521 16 719	22 24	68 71	9 14	10 6	13 9	0.93	63 65	9 16	12 7	16 12	0.91	89 90	6 9	2 <1	4 <1	0.62
Cameroon	2015 2020	23 298 26 546	55 58	64 66	11 13	18 15	7 6	0.41	42 44	11 13	32 30	15 14	0.34	82 82	11 13	5 4	<1 1	-0.02
Canada	2015 2020	36 027 37 742	81 82	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	99 >99	<1 <1	1 <1	<1 <1	0.05	>99 >99	<1 <1	<1 <1	<1 <1	-0.01
Cayman Islands	2015 2016	62 63	100 100	96 96	<1 <1	4 4	<1 <1	-	-	-	-	-	-	96 96	<1 <1	4 4	<1 <1	-
Central African Republic	2015 2020	4 493 4 830	40 42	42 37	21 26	32 34	4 4	-1.09	32 28	17 19	44 46	7 6	-0.82	58 50	27 34	15 16	<1 <1	-1.68
Chad	2015 2020	14 111 16 426	23 24	44 46	14 15	35 32	7	0.33	36 38	14 14	41 39	9 10	0.39	75 74	12 16	12 9	<1 <1	-0.04
Channel Islands	2015 2017	165 169	31 31	94 94	<1 <1	6	<1 <1	-	-	-	-	-	-	-	-	-	-	-
Chile	2015 2020	17 969 19 116	87 88	>99 >99	<1 <1	<1 <1	<1 <1	0.21	97 >99	<1 <1	3 <1	<1 <1	1.25	>99 >99	<1 <1	<1 <1	<1 <1	0.04
China	2015 2020	1 430 405 1 463 141	56 62	92 94	<1 <1	7	<1 <1	0.69	84 90	2	13 9	1 <1	0.98	98 97	<1 <1	2	<1 <1	-0.07
China, Hong Kong SAR	2015 2020	7 186 7 497	100	>99 >99	<1 <1	<1 <1	<1 <1	0.06	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.06

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
Belize	2015 2020	-	95 97	-	-	83 87	15 13	-	93 96	-	-	75 79	22 20	-	98 98	-	-	93 96	7 4
Benin	2015 2020	-	29 25	57 58	-	38 37	35 38	-	14 10	53 55	-	26 26	43 45	-	46 40	61 61	-	53 49	26 30
Bermuda	2015 2020	-	>99 >99	-	-	>99 >99	<1 <1	-	-	-	-	-	-	-	>99	-	-	>99 >99	<1 <1
Bhutan	2015	36	86	86	36	98	1	27	82	87	27	97	2	49	92	85	49	>99	<1
Bolivia (Plurinational State of)	2020 2015	37 -	88 83	-	37 -	>99 70	<1 20	28 -	83 57	-	-	>99 32	<1 42	49 -	96 95	85 81	49 -	>99 88	<1
Bosnia and Herzegovina	2020 2015	- 89	86 91	- 89	- 92	69 95	25 5	-	62 92	- 88	-	26 93	54 7	-	96 90	80 90	-	87 98	13 2
Botswana	2020 2015 2020	89 - -	91 76 82	-	90 - -	90 91	- 6 6	-	92 45 50	-	-	- 77 76	- 17 18	- 83 83	90 92 95	90 - -	- 83 83	- 97 96	- 1 2
Brazil	2015 2020	82 86	97 >99	90 91	82 86	96 98	2	63 72	82 96	77 81	63 72	79 88	13 9	85 88	99 >99	92 92	85 88	99 >99	<1 <1
British Virgin Islands	2015 2020	-	98 98	-	-	96	4	-	-	-	-	-	-	-	-	-	-	-	-
Brunei Darussalam	2015 2020	-	>99	-	-	>99 >99	<1 <1	-	99	-	-	99	<1	-	>99 >99	-	-	>99 >99	<1 <1
Bulgaria	2015 2020	97 98	99 98	97 98	97 99	>99 >99	<1 <1	-	96 96	-	-	98 97	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1
Burkina Faso	2015 2020	-	15 20	54 56	-	27 28	49 50	-	2	53 54	-	8	61 63	-	49 58	58 58	-	76 74	18 21
Burundi	2015 2020	-	9 11	-	-	33 38	46 43	-	3	-	-	25 30	51 49	-	55 58	50 51	-	88 91	9
Cabo Verde	2015 2020	-	82 88	-	-	85 90	11 7	-	73 80	-	-	73 76	17 14	-	87 92	-	-	92 97	7
Cambodia	2015 2020	25 28	48 48	-	25 28	25 32	52 53	16 18	41 42	-	16 18	12 17	60 64	54 57	71 68	-	54 57	69 80	26 20
Cameroon	2015 2020	-	27 35	47 49	-	37 36	38 43	-	6	-	-	11 10	42 46	-	44 55	48 49	-	60 55	34 40
Canada	2020 2015 2020	- 99 >99	99 >99	-	>99 >99	>99 >99	<1 <1	-	98 99	-	-	99 >99	<1 <1	-	>99 >99		-	>99 >99	<1 <1
Cayman Islands	2020 2015 2016	-	91 91	- 82 82	-	86 86	10 10	-	-	-	-	-	-	-	91 91	- 82 82	-	86 86	10 10
Central African Republic	2010 2015 2020	- 7 6	7	38 38	30 29	16 14	48 49	- 3 2	3	31 34	23 22	- 1 <1	48 47	- 13 12	13 12	82 49 43	40 40	37 32	48 52
Chad	2020 2015 2020	6 6	0 10 9	38 46 48	12 13	14 19 20	49 39 41	2 2 2	2 2 2	40 42	22 11 11	9 10	47 40 42	12 17 17	39 31	43 67 69	40 17 17	53 52	34 38
Channel Islands	2020 2015 2017	o 92 92	9 92 92	-	94 94	90 90	4	-	-	+Z	-	-	-	-	-	-	-	-	-
Chile	2017 2015 2020	98	99	99	98	99	<1	-	- 90	-	-	- 94 >99	4	99	- >99	- >99	- 99	- >99	<1
China	2020 2015 2020	99 -	>99 90	>99 88	-	>99 74	<1 19	-	98 84	79	-	53	<1 33	99 93	>99 96	>99 96	99 93	>99 90	<1 7
China, Hong Kong SAR	2020 2015 2020	- >99 >99	93 >99 >99	91	- >99 >99	80 >99 >99	15 <1 <1	-	-	-	-	61 -	-	95 >99 >99	95 >99 >99	95 -	97 >99 >99	91 >99 >99	6 <1 <1

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COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
China, Macao SAR	2015	602 649	100	>99	<1	<1	<1	0.00	-	-	-	-	-	>99	<1	<1	<1	0.00
Colombia	2020 2015 2020	47 521 50 883	100 80 81	>99 96 97	<1 <1 <1	<1 2 <1	<1 2 1	0.30	- 83 87	- <1 <1	- 7 5	- 9 7	0.70	>99 >99 >99	<1 <1 <1	<1 <1 <1	<1 <1 <1	0.10
Comoros	2015 2019	777 851	28 29	80 80	11 11	8 9	<1 -	-	77 77	12 12	11 12	<1 -	-	88 88	9 9	2 2	<1 <1	-
Congo	2015 2020	4 856 5 518	66 68	71 74	11 10	12 10	7 6	0.83	41 46	11 11	29 24	19 19	1.39	87 87	10 10	3 3	<1 <1	0.12
Cook Islands	2015 2020	18 18	74 75	>99 >99	<1 <1	<1 <1	<1 <1	0.01	-	-	-	-	-	-	-	-	-	-
Costa Rica	2015 2020	4 848 5 094	77 81	>99 >99	<1 <1	<1 <1	<1 <1	0.27	98 >99	<1 <1	<1 <1	<1 <1	0.61	>99 >99	<1 <1	<1 <1	<1 <1	0.04
Côte d'Ivoire	2015 2020	23 226 26 378	49 52	71 71	9	14 14	6	-0.02	56 56	13 13	23 23	8	-0.02	87 85	4	6	3	-0.32
Croatia	2015 2020	4 233 4 105	56 58	-	-	-	-	-	-	-	-	-		>99 >99	<1 <1	<1 <1	<1 <1	0.00
Cuba	2015 2020	11 325 11 327	77 77	96 97	2 1	2 1	<1 <1	0.22	90 94	3 3	5 2	1	0.74	98 98	1 1	1	<1 <1	0.05
Curaçao	2015 2017	160 162	89 89	>99 >99	<1 <1	<1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-
Cyprus	2015 2020	1 161 1 207	67 67	>99 >99	<1 <1	<1 <1	<1 <1	-0.01	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	-0.01
Czech Republic	2015 2020	10 601 10 709	73 74	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.01	>99 >99	<1 <1	<1 <1	<1 <1	0.00
Democratic People's Republic of Korea	2015 2020	25 184 25 779	61 62	95 94	<1 <1	4 5	<1 <1	-0.27	92 89	<1 <1	7 10	<1 <1	-0.54	97 97	<1 <1	2 2	<1 <1	-0.11
Democratic Republic of the Congo	2015 2020	76 245 89 561	43 46	43 46	13 13	34 33	10 8	0.61	21 22	12 13	51 51	17 14	0.28	72 75	14 14	12 10	2 <1	0.43
Denmark	2015 2020	5 689 5 792	88 88	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
Djibouti	2015 2020	914 988	77 78	76 76	15 15	7 7	2 2	0.03	49 47	12 12	30 31	8 10	-0.35	84 84	15 16	<1 <1	<1 <1	0.11
Dominica	2015 2017	71 71	70 70	95 95	<1 <1	5 5	<1 <1		-	-	-	-	-	-	-	-	-	-
Dominican Republic	2015 2020	10 282 10 848	79 83	96 97	<1 <1	2 1	2 2	0.31	89 90	2 1	2 1	7 7	0.48	98 98	<1 <1	1 1	<1 <1	0.08
Ecuador	2015 2020	16 212 17 643	63 64	93 95	<1 <1	3 3	4 2	0.65	83 87	<1 <1	7 7	10 6	0.88	>99 >99	<1 <1	<1 <1	<1 <1	0.46
Egypt	2015 2020	92 443 102 334	43 43	>99 >99	<1 <1	<1 <1	<1 <1	0.08	99 >99	<1 <1	<1 <1	<1 <1	0.12	>99 >99	<1 <1	<1 <1	<1 <1	0.02
El Salvador	2015 2020	6 325 6 486	70 73	96 98	<1 <1	1 <1	3	0.99	88 93	2 <1	2 <1	8	1.85	99 >99	<1 <1	<1 <1	<1 <1	0.31
Equatorial Guinea	2015 2017	1 169 1 262	71 72	64 65	3	26 26	7	-	31 31	1	46 46	22 22	-	78 78	4	18 18	<1 <1	-
Eritrea	2017 2015 2016	3 343 3 377	38 39	51 52	18 18	14 13	17 17	-	28 28	24 24	20 20	28 28	-	90 90	7 7	3	<1 <1	-
Estonia	2015 2020	1 315 1 327	68 69	>99 >99	<1 <1 <1	<1 <1 <1	<1 <1 <1	0.02	>99 -	<1 -	<1 -	<1 -	-	>99 >99 >99	7 <1 <1	<1 <1	<1 <1 <1	0.00

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
China, Macao SAR	2015 2020	>99 >99	>99 >99	>99 >99	>99 >99	>99 >99	<1 <1	-	-	-	-	-	-	>99 >99	>99 >99	>99 >99	>99 >99	>99 >99	<1 <1
Colombia	2015 2020	72 73	95 96	76 76	81 82	88 89	9	39 40	79 83	-	39 40	59 60	25 27	81 80	>99 >99	81 80	91 92	95 95	4
Comoros	2015 2019	-	65 65	-	-	59 59	32 32	-	63 63	-	-	53 53	36 36	-	71 71	-	-	76 76	21 21
Congo	2015 2020	44 46	49 53	-	45 46	52 53	29 31	17 19	17 19	-	19 21	10 10	42 46	58 59	65 69	-	58 59	74 73	23 25
Cook Islands	2015 2020	-	87 87	-	-	85 89	15 11	-	-	-	-	-	-	-	-	-	-	-	-
Costa Rica	2015 2020	80 81	>99 >99	80 81	93 94	99 >99	<1 <1	80 81	97 99	80 81	83 84	97 >99	2 <1	80 80	>99 >99	80 80	96 96	>99 >99	<1 <1
Côte d'Ivoire	2015 2020	35 35	44 45	57 57	45 46	43 42	37 38	15 15	15 15	59 59	27 27	23 22	46 47	55 54	73 73	55 54	64 63	63 60	28 30
Croatia	2015 2020	-	-	-	-	-	-	-	-	-	-	-	-	94 94	97 97	-	94 94	-	-
Cuba	2015 2020	-	90 93	89 90	-	78 80	19 19	-	80 91	86 89	-	55 56	39 41	-	93 94	90 90	-	85 86	13 12
Curaçao	2015 2017	-	>99 >99	-	-	99 99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Cyprus	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1
Czech Republic	2015 2020	98 98	98 98	-	>99 >99	>99 >99	<1 <1	98 98	98 98	-	99 99	>99 >99	<1 <1	98 98	98 98	>99 >99	>99 >99	>99 >99	<1 <1
Democratic People's Republic of Korea	2015 2020	67 66	76 74	95 93	74 73	70 65	26 30	50 49	72 70	91 88	50 49	57 50	35 39	77 77	77 77	97 97	89 88	78 74	20 24
Democratic Republic of the Congo	2015 2020	16 19	16 19	41 43	38 41	32 35	24 24	<1 <1	<1 <1	28 30	23 25	7 8	25 27	37 40	37 40	58 59	58 59	65 67	21 21
Denmark	2015 2020	97 97	97 97	-	99 >99	>99 >99	<1 <1	-	98 98	-	-	>99 >99	<1 <1	-	97 97	-	-	>99 >99	<1 <1
Djibouti	2015 2020	-	46 46	-	-	81 83	9 8	-	5 5	-	-	27 26	35 33	-	58 58	-	-	97 >99	2 <1
Dominica	2015 2017	-	81 81	52 52	-	94 94	1 1	-	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	2015 2020	-	93 95	72 73	-	80 81	17 16	-	78 80	53 53	-	64 66	27 26	-	97 98	77 77	-	85 84	14 14
Ecuador	2015 2020	65 67	91 95	89 91	65 67	86 91	7 5	50 53	80 86	77 81	50 53	69 74	14 13	74 75	97 >99	96 97	74 75	96 >99	3 <1
Egypt	2015 2020	-	97 98	71 72	-	97 >99	2 <1	-	96 98	67 67	-	96 >99	3 <1	-	99 99	77 77	-	99 99	<1 <1
El Salvador	2015 2020	-	90 92	74 74	-	87 91	9 7	-	75 80	62 65	-	72 82	17 13	79 77	96 97	79 77	98 99	94 95	5 5
Equatorial Guinea	2015 2017	-	16 17	-	-	41 41	27 27	-	2 2	-	-	22 22	10 10	-	23 23	-	-	48 48	34 34
Eritrea	2015 2016	-	34 34	-	-	52 52	18 18	-	8 8	-	-	41 41	11 11	-	74 74	-	-	69 69	27 27
Estonia	2015 2020	96 96	96 96	>99 >99	96 96	96 93	4 6	-	-	-	-	89	10 -	-	-	-	-	99 -	1 -

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COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Eswatini	2015	1 104 1 160	23	67	9	11	14	0.87	58	11	13	17	0.96	95	<1	2	2	0.47
Ethiopia	2020 2015 2020	100 835 114 964	24 19 22	71 42 50	10 22 27	10 24 19	10 12 5	1.58	62 32 40	12 24 30	12 30 23	13 14 6	1.59	97 82 84	<1 14 14	2 2 1	<1 2 <1	0.45
Faeroe Islands	2015 2020	48 49	42 42	>99 >99	<1 <1	<1 <1	<1 <1	0.00	-	-	-	-	-	-	-	-	-	-
Falkland Islands (Malvi-	2020	3	76	95	<1	5	<1		78	<1	22	<1		>99	<1	<1	<1	0.00
nas)	2020 2015	3 869	79 55	95 94	<1 <1	5 3	<1 2		78 89	<1 <1	22 6	<1 5		>99 98	<1 <1	<1 1	<1 <1	0.00
Fiji	2015	896	57	94 94	<1	3	2	-0.00	89	<1	6	5	-0.06	90 98	<1	1	<1	-0.02
Finland	2015	5 481	85	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
	2020 2015	5 541 64 453	86 80	>99 >99	<1 <1	<1 <1	<1 <1		>99 >99	<1 <1	<1 <1	<1 <1		>99 >99	<1 <1	<1 <1	<1 <1	
France	2020	65 274	81	>99	<1	<1	<1	0.01	>99	<1	<1	<1	0.02	>99	<1	<1	<1	0.00
French Guiana	2015	261	84	94	<1	6	<1	-	-	-	-	-	-	-	-	-	-	-
	2020 2015	299 273	86 62	94 >99	<1 <1	6 <1	<1 <1		-	-	-	-		-	-	-	-	
French Polynesia	2020	281	62	>99	<1	<1	<1	0.00	-	-	-	-	-	-	-	-	-	-
Gabon	2015 2020	1 948 2 226	88 90	84 85	8 8	5 7	3	0.22	43 45	10 11	22 45	25	0.09	89 90	7 7	3 3	<1	-0.06
Gambia	2020	2 086	59	79	9	12	<1	0.36	68	15	16	<1	0.20	87	5	8	<1	0.24
Gambia	2020	2 417	63	81	9	10	<1	0.30	69	16	14	<1	0.20	88	4	8	<1	0.24
Georgia	2015 2020	4 024 3 989	57 59	96 97	<1 <1	3 3	<1 <1	0.18	91 94	2 <1	7 6	<1 <1	0.30	>99 >99	<1 <1	<1 <1	<1 <1	0.04
Germany	2015	81 787	77	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Germany	2020	83 784	77	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Ghana	2015 2020	27 849 31 073	54 57	80 86	8 7	4 3	8 5	1.10	67 72	11 12	6 5	15 11	0.94	91 96	5 3	3 1	<1 <1	0.93
Gibraltar	2015	34	100	>99	<1	<1	<1	0.00	-	-	-	-	-	>99	<1	<1	<1	0.00
	2020 2015	34 10 660	100 78	>99 >99	<1 <1	<1 <1	<1 <1		- >99	- <1	- <1	- <1		>99 >99	<1 <1	<1 <1	<1 <1	
Greece	2010	10 423	80	>99	<1	<1	<1	0.02	>99	<1	<1	<1	0.05	>99	<1	<1	<1	0.00
Greenland	2015	56	86	>99	<1	<1	<1	-0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
	2020 2015	57 110	87 36	>99 96	<1 1	<1 <1	<1 3		>99 -	<1	<1	<1		>99 -	<1	<1	<1	
Grenada	2017	111	36	96	1	<1	3	-	-	-	-	-	-	-	-	-	-	-
Guadeloupe	2015	400	98	>99	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
	2020 2015	400 162	98 95	>99 >99	<1 <1	<1 <1	<1 <1		-	-	-	-		-	-	-	-	
Guam	2020	169	95	>99	<1	<1	<1	0.01	-	-	-	-	-	-	-	-	-	-
Guatemala	2015	16 252 17 916	50 52	92 04	<1	5 3	2 2	0.38	87	2 2	7 5	4	0.55	97	<1	2 2	<1	0.12
Cuince	2020 2015	11 432	52 35	94 64	1 16	3 10	2 11	0.54	90 52	2 19	5 13	3 16	0.40	98 85	<1 11	3	<1 <1	0.44
Guinea	2020	13 133	37	64	21	6	8	0.54	51	26	10	13	0.43	87	13	<1	<1	0.44
Guinea-Bissau	2015 2020	1 737 1 968	42 44	59 59	11 14	30 27	<1 <1	0.15	48 50	8 9	43 40	1 <1	0.32	73 71	15 20	12 9	<1 <1	-0.38
Guyana	2020	767	26	95	1	1	2	0.38	93	2	2	3	0.40	>99	<1	<1	<1	0.35
Jayana	2020	787	27	96	1	1	2	0.00	94	2	2	3	0.40	>99	<1	<1	<1	0.00

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
Eswatini	2015 2020	-	47 51	-	-	57 61	18 20	-	34 37	-	-	47 50	22 25	87 89	90 93	96 97	87 89	91 93	5 4
Ethiopia	2020 2015 2020	- 10 13	15 20	- 52 64	- 13 15	35 41	20 29 35	- 3 5	37 3 5	- 51 63	- 7 9	22 28	25 34 42	38 39	93 64 75	97 57 67	38 39	93 87 88	4 9 11
Faeroe Islands	2015 2020	-	>99 >99	-	-	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Falkland Islands (Malvi- nas)	2015	-	92	-	-	90	5	-	67	-	-	56	22	-	>99	-	-	>99	<1
Fiji	2020 2015	-	93 71	94	-	91 84	5 10	-	67 43	-	-	56 68	22 21	-	>99 95	-	-	>99 97	<1 1
	2020 2015	- >99	71 >99	94	- >99	83 >99	11 <1	-	39 98	-	-	65 >99	24 <1	-	94 >99	-	-	97 >99	<1 <1
Finland	2020 2015	>99 99	>99 >99		>99 99	>99 >99	<1 <1	-	98 >99		•	>99 >99	<1 <1	- >99	>99 >99	-	- >99	>99 >99	<1 <1
France	2020	>99	>99	-	>99	>99	<1	-	>99	-	-	>99	<1	>99	>99	-	>99	>99	<1
French Guiana	2015 2020	90 91	90 91	-	93 93	87 88	6 6	-	-	-	-	-	-	-	-	-	-	-	-
French Polynesia	2015 2020	88 84	97 98	-	88 84	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	2015 2020	-	69 71	-	-	82 82	10 11	-	18 19	-	-	17 15	36 40	-	76 76	-	-	90 89	6 8
Gambia	2015 2020	39 45	39 45	76 78	53 54	72 77	16 13	7 8	7 8	68 70	33 33	55 65	28 21	62 67	62 68	82 82	67 67	84 84	7 8
Georgia	2015 2020	65 66	96 97	78 78	68 69	79 82	18 15	40 40	91 94	69 70	40 40	58 62	35 32	84 84	>99 >99	84 84	89 89	94 96	5 3
Germany	2015 2020	>99 >99	>99 >99	>99 >99	>99 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99	-	-	>99 >99	<1 <1
Ghana	2015	33	33	77	53	37	51	11	11	70	43	23	55	52	52	83	62	50	47
Gibraltar	2020 2015 2020	41 >99 >99	41 >99 >99	-	55 >99 >99	35 >99 >99	58 <1 <1	16 -	-	76	45	-	-	60 >99 >99	60 >99 >99	91 -	62 >99 >99	41 >99 >99	58 <1 <1
Greece	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1
Greenland	2015 2020	97	97	-	>99	>99	<1	-	98	-	-	>99	<1	-	97	-	-	>99	<1
Grenada	2020 2015 2017	97 87 87	97 90 90	- 92 92	>99 87 87	>99 92 92	<1 4 4	-	98 - -	-	-	>99	<1 - -	-	97 - -	-	-	>99	<1
Guadeloupe	2015 2020	97 98	>99 >99	-	97 98	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Guam	2015 2020	>99 >99	>99 >99	-	>99 >99	>99	<1	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	2015 2020	54 56	85 87	60 62	56 57	77 77	16 18	44 46	75 79	55 58	44 46	64 65	24 27	64 65	94 95	64 65	68 68	89 89	8 9
Guinea	2015 2020	-	31	45	-	24	55	-	14	-	-	6 7	65	-	63	40	-	59	37
Guinea-Bissau	2020 2015 2020	- 23 24	42 23 24	48 55 58	42 44	25 30 35	61 40 38	- 9 11	21 9 11	- 53 56	- 31 33	7 14 18	69 42 41	- 41 41	77 41 41	41 58 60	- 56 58	54 51 55	46 36 35
Guyana	2015 2020	-	94 94	-	-	65 65	31 31	-	91 92	-	-	58 58	37 38	-	>99 >99	-	-	86 87	14 13

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COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Haiti	2015	10 696	52	65	9	25	<1	0.52	42	12	44	2	0.12	85	6	9	<1	-0.01
Honduras	2020 2015 2020	11 403 9 113 9 905	57 55 58	67 93 96	10 <1 <1	23 6 4	<1 <1 <1	0.53	43 86 90	13 <1 <1	44 12 9	<1 <1 <1	0.66	85 99 >99	7 <1 <1	8 1 <1	<1 <1 <1	0.22
Hungary	2015 2020	9 778 9 660	71 72	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.01	>99 >99	<1 <1	<1 <1	<1 <1	0.00
Iceland	2015 2020	330 341	94 94	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
India	2015 2020	1 310 152 1 380 004	33 35	88 90	5 5	6 4	<1 <1	0.50	86 89	6 6	8 5	1 <1	0.65	93 94	3 3	3 3	<1 <1	0.06
Indonesia	2015 2020	258 383 273 524	53 57	89 92	<1 <1	9 6	2 1	0.85	81 86	<1 1	15 11	3 3	1.02	95 98	<1 <1	4 2	<1 <1	0.43
Iran (Islamic Republic of)	2015 2020	78 492 83 993	73 76	97 97	2 2	1 <1	<1 <1	0.17	92 94	4 4	3 2	<1 <1	0.33	98 99	1 1	<1 <1	<1 <1	0.03
Iraq	2015 2020	35 572 40 223	70 71	94 98	1 <1	2 <1	3 <1	0.88	85 95	3 3	3 <1	10 3	2.04	98 >99	<1 <1	1 <1	<1 <1	0.33
Ireland	2015	4 652	63	97	<1	3	<1	0.01	98	<1	2	<1	0.04	97	<1	3	<1	-0.00
Isle of Man	2020 2015	83 85	64 52	97 >99	<1 <1	<1	<1 <1	-	98 -	<1 -	2	<1 -	-	97 -	<1	3	<1 -	-
Israel	2020 2015	7 978	53 92	>99 >99	<1 <1	<1 <1	<1 <1	0.00	- >99	<1	<1	<1	0.00	- >99	<1	<1	<1	0.00
Italy	2020 2015	8 656 60 578	93 70	>99 >99	<1 <1	<1 <1	<1 <1	0.02	>99 -	<1	<1 -	<1		>99 -	-	<1 -	<1 -	-
Jamaica	2020 2015	60 462 2 891	71 55	>99 90	<1 5	<1	<1	-0.11	85	8	3	4	-0.14	95	3	1	<1	-0.12
Japan	2020 2015	2 961 127 985	56 91	91 99	5 <1	2 1	2 <1	0.03	85 -	-	3	-	-	95 -	3	1	<1	
Jordan	2020 2015	126 476 9 267	92 90	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	- 97	<1	2	<1	-0.01	- >99	<1	<1	<1	-0.02
Kazakhstan	2020 2015	10 203 17 572	91 57	99 95	<1 2	<1 3	<1 <1	0.26	97 91	<1 2	2 7	<1 <1	0.50	>99 98	<1 2	<1 <1	<1 <1	0.07
	2020 2015	18 777 47 878	58 26	95 58	2 9	3 12	<1 21	0.72	92 48	2 10	6 14	<1 27	0.72	98 87	2 4	<1 4	<1 5	0.00
Kenya	2020 2015	53 771 111	28 52	62 74	10 2	10 24	19 <1		52 58	12 2	13 40	24 <1		87 89	4 3	3 8	6 <1	
Kiribati	2020 2015	119 3 836	56 100	78 >99	4 <1	18 <1	<1 <1	0.91	61 -	2	37	<1	0.65	92	6	3	<1	0.80
Kuwait	2020	4 271 5 959	100	>99	<1	<1	<1	0.00	-	-	-	-	-	-	-	-	-	-
Kyrgyzstan	2015 2020	6 524	36 37	88 92	2 2	2 2	8 5	0.59	83 87	2 3	3 3	11 7	0.77	98 >99	<1 <1	<1 <1	1 <1	0.24
Lao People's Democratic Republic	2015 2020	6 741 7 276	33 36	77 85	3 4	14 11	5 <1	1.95	70 78	4 6	18 15	7 <1	2.05	92 97	<1 <1	6 3	<1 <1	1.02
Latvia	2015 2020	1 998 1 886	68 68	99 99	<1 <1	<1 <1	<1 <1	0.05	98 99	<1 <1	2 1	<1 <1	0.14	99 99	<1 <1	<1 <1	<1 <1	0.01
Lebanon	2015 2020	6 533 6 825	88 89	91 93	7 7	1 <1	<1 <1	0.34	-	-	-	-	-	-	-	-	-	-
Lesotho	2015 2020	2 059 2 142	27 29	71 72	11 10	15 12	4 5	0.30	63 64	13 14	18 16	5 7	0.05	90 93	5 3	5 4	<1 <1	0.61

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
Haiti	2015 2020	-	11 8	61 64	-	26 19	48 57	-	8 7	44 45	-	25 24	29 32	-	14 8	78 78	-	26 15	65 77
Honduras	2020 2015 2020	-	87 89	60 60	-	89 92	5 5	- 18 19	76 77	43 66 69	18 19	80 84	8 6	-	96 97	54 55	-	96 97	3 3
Hungary	2015 2020	92 93	>99 >99	>99 >99	92 93	>99 >99	<1 <1	89 89	>99 >99	>99 >99	89 89	99 >99	<1 <1	94 94	>99 >99	>99 >99	94 94	>99 >99	<1 <1
Iceland	2015	99	>99	-	99	>99	<1	-	>99	-	-	>99	<1	-	>99	-	-	>99	<1
India	2020 2015	>99 -	>99 59	67	>99 -	>99 44	<1 49	- 51	>99 51	61	66	>99 32	<1 59	-	>99 76	78	-	>99 68	<1 28
Indonesia	2020 2015	-	66 65	62 81	-	44 29	52 60	56 -	59 56	56 73	79	32 17	63 65	-	78 72	73 88	-	66 41	31 55
	2020 2015	- 93	66 93	85 -	- 97	35 98	59 1	- 86	60 86	78 -	- 92	21 93	65 3	- 96	72 96	90 -	- 98	45 >99	54 <1
Iran (Islamic Republic of)	2020 2015	94 57	94 88	- 67	97 57	99 82	<1 14	87 43	87 75	- 53	94 43	96 64	2 23	96 64	96 94	- 73	98 64	>99 89	<1 10
Iraq	2020	60	94	74	60	83	16	48	93	62	48	72	25	65	95	78	65	88	12
Ireland	2015 2020	97 97	97 97	-	97 97	97 97	<1 <1	-	98 98	-	-	98 98	<1 <1	-	97 97	-	-	97 97	<1 <1
Isle of Man	2015 2020	97 97	97 97	-	>99 >99	98 98	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Israel	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1
Italy	2015 2020	96 96	98 98	-	96 96	98 -	1 -	-	-	-	-	-	-	-	-	-	-	-	-
Jamaica	2015 2020	-	83 84	47 38	-	82 83	14 13	-	72 72	-	-	70 73	23 21	-	93 93	54 45	-	92 91	6 7
Japan	2015 2020	98 99	98 99	-	99 >99	98 98	1 1	-	-	-	1	1	-	-	-	-	-	-	1
Jordan	2015	75	99	75	98	91	8	-	97	78	-	82	16	-	99	75	-	92	8
Kazakhstan	2020 2015 2020	86 86 89	98 86	-	98 96	89 79	10 18	-	97 77	-	-	82 59	16 34	-	99 93	86 - -	-	90 94	9
Kenya	2015	-	89 31	55	97 -	81 33	16 34	-	83 21	49	-	63 21	31 37	- 58	94 58	73	77	94 66	6 25
Kiribati	2020 2015	- 13	33 58	62 48	- 13	33 35	39 41	- 6	23 39	56 48	- 6	22 12	41 48	58 20	58 76	78 48	77 20	60 57	31 34
	2020 2015	15 >99	56 >99	51 >99	15 >99	39 -	43 -	7 -	35 -	51 -	7	9	54 -	21 -	72 -	50 -	21 -	62 -	35 -
Kuwait	2020 2015	>99 66	>99 67	>99 80	>99 83	- 84	- 6	- 53	- 53	- 73	- 76	- 77	- 9	- 91	- 93	- 91	- 95	- 97	-
Kyrgyzstan	2020	70	71	83	88	94	<1	57	57	77	81	90	<1	92	96	92	99	>99	<1
Lao People's Democratic Republic	2015 2020	16 18	66 84	78 86	16 18	28 31	52 58	11 12	54 77	71 80	11 12	13 14	61 70	26 27	90 97	91 95	26 27	59 62	34 35
Latvia	2015 2020	95 96	95 96	-	99 >99	91 94	8 5	-	88 91	-	-	78 85	19 13	-	98 99	-	-	97 98	3 2
Lebanon	2015 2020	47 48	88 90	87 92	47 48	88 89	11 11	-	-	-	-	-	-	-	-	-	-	-	-
Lesotho	2015	23	23	68	57	67	15	7	7	65	46	58	18	69 79	69	77	85	89	6
	2020	29	29	69	58	69	14	9	9	66	47	59	18	78	78	78	86	91	4

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COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Liberia	2015	4 472	50	73	7	7	14	0.68	61	5	8	26	0.75	84	10	6	<1	0.41
	2020 2015	5 058 6 418	52 79	75 97	9 <1	3 3	13 <1		64 -	7	3	26		86	- 11	4	<1	
Libya	2020	6 871	81	>99	<1	<1	<1	0.78	-	-	-	-	-	-	-	-	-	-
Liechtenstein	2015	37	14	>99	<1	<1	<1	0.00	-	-	-	-	-	-	-	-	-	-
	2020	38 2 932	14	>99	<1	<1	<1		-	-	-	-		-	-	-	-	
Lithuania	2015 2020	2 732	67 68	97 98	<1 <1	3 2	<1 <1	0.42	91 94	<1 <1	9 6	<1 <1	0.92	>99 >99	<1 <1	<1 <1	<1 <1	0.16
Luvombourg	2015	567	90	>99	<1	<1	<1	-0.01	>99	<1	<1	<1	-0.07	>99	<1	<1	<1	0.00
Luxembourg	2020	626	91	>99	<1	<1	<1	-0.01	99	<1	1	<1	-0.07	>99	<1	<1	<1	0.00
Madagascar	2015	24 234 27 691	35	49	3	30	18	0.86	33	2	40	25	0.64	78	4	13	4	0.52
	2020 2015	16 745	39 16	53 66	3 20	32 11	12 4		36 62	2 22	44 12	18 4		80 86	4 10	14 4	1 <1	
Malawi	2020	19 130	17	70	22	6	2	0.81	67	24	6	3	0.91	86	10	3	<1	0.05
Malaysia	2015	30 271	74	97	<1	3	-	0.01	91	<1	9	-	-0.14	>99	<1	<1	<1	-0.01
Mataysia	2020	32 366	77	97	<1	3	-	0.01	90	<1	9	-	0.11	>99	<1	<1	<1	0.01
Maldives	2015	455 541	39	99	<1	1	<1	0.29	99	<1	<1	<1	0.38	99	<1	1	<1	0.06
	2020 2015	17 439	41 40	>99 74	<1 4	<1 19	<1 2		>99 63	<1 4	<1 29	<1 3		99 91	<1 4	1 5	<1 <1	
Mali	2020	20 251	44	83	4	12	1	1.65	72	4	22	2	1.65	96	4	<1	<1	1.00
Malta	2015	434	94	>99	<1	<1	<1	-0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Matta	2020	442	95	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Marshall Islands	2015	57	76	88	11	<1	<1	-	94	5	<1	<1	-	86	13	<1	<1	-
	2020 2015	59 378	78 89	89 >99	11 <1	<1 <1	<1 <1		94 -	5	<1	<1		87	13	<1	<1	
Martinique	2020	375	89	>99	<1	<1	<1	0.01	-	-	-	-	-	-	-	-	-	-
Mauritania	2015	4 046	51	67	15	18	<1	1.53	47	18	34	1	1.24	86	12	2	<1	1.11
Mauritariia	2020	4 650	55	72	13	15	<1	1.55	50	18	32	<1	1.24	89	9	1	<1	1.11
Mauritius	2015	1 259	41	>99	<1	<1	<1	0.03	>99	<1	<1	<1	0.04	>99	<1	<1	<1	0.01
	2020 2015	1 272 240	41 47	>99 97	<1 <1	<1 <1	<1 3		>99	<1	<1	<1		>99	<1	<1	<1	
Mayotte	2020	273	46	96	<1	4	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	2015	121 858	79	98	<1	1	<1	0.49	93	<1	4	2	1.19	>99	<1	<1	<1	0.24
	2020	128 933	81	>99	<1	<1	<1	0.47	98	<1	2	<1	1.17	>99	<1	<1	<1	0.24
Micronesia (Federated States of)	2015	109	22	88	<1	12	-	-	-	-	-	-	-	-	-	-	-	-
	2019 2015	114 38	23 100	88 >99	<1 <1	12 <1	<1		-	-	-	-		- >99	<1	<1	<1	
Monaco	2020	39	100	>99	<1	<1	<1	0.00	-	-	-	-	-	>99	<1	<1	<1	0.00
Mongolia	2015	2 998	68	81	4	8	8	1.17	52	5	19	24	1.61	94	3	2	<1	0.48
inongona	2020	3 278	69	85	2	7	6	,	61	3	18	18		97	2	2	<1	0110
Montenegro	2015	627 628	66 47	97	2	<1	<1	-	96	2	2	<1	-	98	2	<1	<1	-
	2020 2015	5	67 9	99 98	<1 <1	<1 2	<1 <1		98 -	<1	2	<1		>99 -	<1	<1	<1	
Montserrat	2020	5	9	98	<1	2	<1	0.00	-	-	-	-	-	-	-	-	-	-
Morocco	2015	34 664	61	84	6	9	2	1.40	64	12	19	5	2.43	96	2	2	<1	0.30
	2020	36 911	64	90	5	3	1		77	12	7	4	2.10	98	1	<1	<1	0.00
Mozambique	2015 2020	27 042 31 255	34 37	51 63	10 10	27 17	12 10	2.11	36 49	12 13	35 24	17 15	2.18	80 88	7 5	11 5	3 2	1.42

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
Liberia	2015 2020	-	13 15	-	-	6 4	74 80	-	5 5	-	-	<1 <1	66 71	-	20 24	-	-	11 8	82 88
Libya	2015 2020	-	87 90	93 96	-	75 78	22 22	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	2015 2020	94 95	94 95	-	94 98	93 96	3 2	-	83 86	-	-	81 87	9 7	99 >99	99 >99	-	>99 >99	99 >99	<1 <1
Luxembourg	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	98 97	98 97	-	>99 99	98 97	<1 1	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1
Madagascar	2015 2020	17 21	18 23	41 45	24 27	32 35	19 21	9 9	10 14	29 31	9 9	15 16	20 22	33 38	33 38	64 66	52 54	64 65	18 20
Malawi	2015 2020	-	14 18	65 69	-	22 22	64 70	-	8 10	69 75	-	10 9	74 82	-	49 54	43 43	-	80 81	15 16
Malaysia	2015 2020	94 94	94 94	-	97 97	95 95	3 2	-	83 82	-	-	83 83	8 8	-	97 97	-	-	99 99	<1 <1
Maldives	2015 2020	-	96 98	74 75	-	46 51	53 48	-	95 97	67 67	-	14 18	85 82	-	99 99	86 87	-	97 99	2 <1
Mali	2015 2020	-	31 36	65 72	-	42 50	36 37	-	16 17	59 65	-	18 22	50 54	-	54 61	74 80	-	78 85	16 15
Malta	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	>99 >99	-	>99 >99	<1 <1
Marshall Islands	2015 2020	-	83 83	80 84	-	27 31	73 69	-	89 89	-	-	9 14	91 86	-	81 82	-	-	33 36	67 64
Martinique	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Mauritania	2015 2020	-	41 43	-	-	49 53	33 32	-	27 29	-	-	35 37	30 31	-	54 54	-	-	63 66	35 33
Mauritius	2015 2020	-	>99 >99	73 73	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1
Mayotte	2015 2020	91 93	91 96	-	95 93	94 93	2 4	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	2015 2020	42 43	93 96	69 69	42 43	95 98	3 2	-	79 86	59 58	-	85 92	9 6	-	96 98	72 71	-	97 >99	2 <1
Micronesia (Federated States of)	2015 2019	-	62 62	73 73	-	44	44	-	-	-	-	-	-	-	-	-	-	-	-
Monaco	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	-	-	-	-	-	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1
Mongolia	2015 2020	28 30	28 30	71 74	76 79	27 25	58 63	8 11	8 11	55 61	45 50	4 4	54 61	38 39	38 39	79 80	91 92	38 35	59 64
Montenegro	2015 2020	85 85	95 98	85 85	92 94	89 89	10 10	-	90 98	80 80	-	74 75	24 23	87 87	97 98	87 87	>99 >99	97 96	3 4
Montserrat	2015 2020	-	98 98	-	-	98 98	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-
Morocco	2015 2020	72 80	74 84	87 92	79 85	76 80	14 15	45 61	45 61	69 80	63 74	49 59	28 31	90 91	92 97	98 >99	90 91	93 93	5 7
Mozambique	2015 2020	-	23 33	-	-	35 41	27 33	-	7 14	47 60	-	15 19	33 43	-	53 65	-	-	72 78	15 16

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COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Myanmar	2015 2020	52 681 54 410	30 31	74 84	7 2	8 5	11 10	1.84	67 78	8 2	10 7	15 13	1.98	88 95	4 <1	4 2	4 3	1.32
Namibia	2020 2015 2020	2 315 2 541	47 52	83 84	2 7 7	5 4 4	6 5	0.40	78 70 71	2 12 12	7 8 7	13 11 10	0.26	95 97 96	2	2 <1 <1	3 <1 <1	-0.09
Nauru	2015 2020	10 11	100 100	>99 >99	<1 <1	<1 <1	<1 <1	0.23	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.23
Nepal	2015 2020	27 015 29 137	19 21	88 90	3 4	7 5	2 1	0.51	87 90	3 4	8 4	2 1	0.61	90 90	3 3	6 6	1 <1	-0.14
Netherlands	2015 2020	16 938 17 135	90 92	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
New Caledonia	2015 2020	271 285	69 72	98 >99	<1 <1	2 <1	<1 <1	0.21	-	-	-	-	-	-	-	-	-	-
New Zealand	2015 2020	4 615 4 822	86 87	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
Nicaragua	2015 2020	6 223 6 625	58 59	81 82	1 2	14 14	3 3	0.05	60 59	3 4	30 30	8 8	-0.21	97 97	<1 <1	2 2	<1 <1	0.14
Niger	2015 2020	20 002 24 207	16 17	45 47	16 22	35 27	4	0.50	37 39	18 24	41 32	4	0.65	88 86	8 10	3	1	-0.34
Nigeria	2015 2020	181 137 206 140	48 52	69 78	7	15 12	10 6	1.72	53 62	7	23 21	16 10	1.56	85 92	6 3	6	3	1.27
Niue	2015 2020	2	43 46	98 97	<1 <1	2 3	<1 <1	-0.11	-	-	-	-	-	-	-	-	-	-
North Macedonia	2015 2020	2 079 2 083	57 58	97 98	2 2	<1 <1	<1 <1	0.04	98 97	1 2	1 <1	<1 <1	-0.03	97 98	2 2	<1 <1	<1 <1	0.09
Northern Mariana Islands	2015 2020	56 58	91 92	>99 >99	<1 <1	<1 <1	<1 <1	0.16	-	-	-	-	-	-	-	-	-	-
Norway	2015 2020	5 200 5 421	81 83	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
occupied Palestinian territory*	2015 2020	4 529 5 101	75 77	96 98	<1 1	3	-	0.36	95 99	<1 <1	4	-	0.58	97 98	<1 1	3	-	0.28
Oman	2020 2015 2020	4 267 5 107	81 86	90 92	8	1 <1	<1 <1	0.33	74 76	21 22	4	<1 <1	0.30	94 95	5	<1 <1	<1 <1	0.15
Pakistan	2020 2015 2020	199 427 220 892	36 37	92 89 90	4	4	2	0.15	87 89	4	2 5 5	4	0.29	94 93	3	3	<1 <1	-0.16
Palau	2020 2015 2020	18 18	78 81	>90 >99 >99	<1	4 <1 <1	<1	0.02	89 >99 >99	4 <1 <1	<1	<1	0.06	93 >99 >99	4 <1 <1	3 <1 <1	<1 <1 <1	-0.00
Panama	2015	3 968	67	93	<1 2 2	3	<1	0.24	84	2	<1 8 7	<1 6	0.45	98	2	<1	<1	0.05
Papua New Guinea	2020 2015 2020	4 315 8 108 8 947	68 13 13	94 41 45	2 2 2	2 21 22	1 35 30	0.61	86 35 39	2 2 2	7 23 24	5 40 34	0.68	98 85 86	2 2 <1	<1 8 7	<1 5 6	0.12
Paraguay	2015 2020	6 689 7 133	61 62	97 >99	<1 <1	3	<1 <1	1.20	93 >99	<1 <1	6 <1	<1 <1	2.29	>99 >99	<1 <1	<1 <1	<1 <1	0.31
Peru	2020 2015 2020	30 471 32 972	77 78	90 93	<1 <1	6	3	0.63	73 81	2	13 10	12 8	1.50	95 97	<1 <1	4	<1 <1	0.26
Philippines	2020 2015 2020	102 113 109 581	46 47	92 94	3	5	<1 <1	0.41	88 91	4	7	<1 <1	0.57	96 97	2	2	<1 <1	0.21
Poland	2020 2015 2020	38 034 37 847	60 60	>99 >99 >99	3 <1 <1	3 <1 <1	<1 <1	-	91 99 >99	4 <1 <1	1 <1	<1 <1 <1	-	>97 >99 >99	<1 <1	<1 <1	<1 <1 <1	-

\*Including east Jerusalem. UNICEF reports and the Global SDG Indicators Database refer to 'State of Palestine'.

				NATI	ONAL					RUI	RAL					URE	BAN		
					opula ater su			Prop	oortio mprov	n of p ved wa	opula ater si	tion u upplie	sing s					tion u upplie	
COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	
Myanmar	2015 2020	51 59	53 64	70 75	55 59	27 33	53 52	43 52	43 53	64 68	49 52	15 18	61 63	71 74	78 88	86 89	71 74	56 66	
Namibia	2015 2020	-	59 62	-	-	79 81	11 10	-	44 48	-	-	63 64	19 19	-	76 75	-	-	97 97	
Nauru	2015 2020	-	>99 >99	-	-	53	47	-	-	-	-	-	-	-	>99 >99	-	-	53 -	
Nepal	2015 2020	25 18	62 69	77 78	25 18	49 50	42 44	24 16	59 67	77 78	24 16	47 49	43 45	33 25	74 74	78 78	33 25	56 53	
Netherlands	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	
New Caledonia	2015 2020	96 97	96 >99	-	96 97	96 99	2 <1	-	-	-	-	-	-	-	-	-	-	-	
New Zealand	2015 2020	96 >99	>99 >99	-	96 >99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	>99 >99	-	>99 >99	
Nicaragua	2015 2020	55 56	78 79	55 56	73 78	69 70	14 13	39 39	51 54	39 39	42 52	33 33	30 30	67 67	97 97	67 67	95 96	95 95	
Niger	2015 2020	-	15 17	29 33	-	34 40	27 29	-	6 8	26 30	-	24 29	31 34	-	59 66	48 48	-	90 94	
Nigeria	2015 2020	20 22	25 29	61 67	22 24	13 10	63 72	16 18	16 18	46 52	20 23	8 8	53 61	24 25	35 40	78 81	24 25	18 12	
Niue	2015 2020	95 94	95 94	98 97	97 96	95 97	3 <1	-	-	-	-	-	-	-	-	-	-	-	
North Macedonia	2015 2020	80 77	95 96	80 80	88 85	92 92	7 7	75 66	94 93	75 75	75 66	83 82	16 17	85 85	97 98	85 85	99 98	99 >99	
Northern Mariana Islands	2015 2020	89 91	95 94	89 91	97 91	91 90	9 10	-	-	-	-	-	-	-	-	-	-	-	
Norway	2015 2020	>99 99	>99 >99	-	>99 99	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	<1 <1	-	>99 >99	-	-	>99 >99	
occupied Palestinian territory*	2015 2020	78 80	89 92	87 88	78 80	62 54	34 45	74 76	92 98	88 86	74 76	83 87	13 12	80 81	88 90	87 88	80 81	56 44	
Oman	2015 2020	89 91	89 91	-	96 >99	90 96	9 4	-	72 73	-	-	78 84	18 13	-	92 93	>99 >99	-	93 97	
Pakistan	2015 2020	36 36	76 71	79 79	36 36	29 26	64 68	33 33	74 72	77 78	33 33	16 15	75 78	42 40	79 71	82 82	42 40	51 45	
Palau	2015 2020	88 91	88 91	>99 >99	97 97	78 86	21 14	68 70	68 70	-	88 88	45 48	55 52	93 96	93 96	>99 >99	>99 >99	88 94	
Panama	2015 2020	-	92 94	83 84	-	92 93	3 3	-	82 85	71 72	-	79 81	6 7	-	98 98	89 90	-	98 99	
Papua New Guinea	2015 2020	-	26 33	25 27	-	19 18	25 29	-	20 24	22 24	-	13 13	24 29	-	65 86	46 46	-	60 53	
Paraguay	2015 2020	62 64	93 96	84 87	62 64	89 >99	8 <1	48 51	87 93	79 85	48 51	80 >99	14 <1	72 72	97 98	88 89	72 72	95 >99	
Peru	2015 2020	50 51	83 86	72 74	50 51	86 90	6 4	20 22	64 75	57 62	20 22	64 76	11 7	59 59	88 89	77 77	59 59	92 94	
Philippines	2015 2020	46 47	68 80	85 87	46 47	60 66	35 31	33 35	56 70	82 85	33 35	45 51	47 44	61 62	81 91	88 89	61 62	76 82	
Poland	2015 2020	96 98	96 98	-	>99 >99	88 89	11 11	-	93 98	-	-	76 78	22 22	-	98 99	-	-	96 97	

		s)			NA	TION	AL			F	URA	L			U	IRBAI	N	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Portugal	2015	10 368	64	>99	<1	<1	<1	0.07	>99	<1	<1	<1	0.06	>99	<1	<1	<1	0.07
Puerto Rico	2020 2015 2020	10 197 3 382 2 861	66 94 94	>99 >99 >99	<1 <1 <1	<1 <1 <1	<1 <1 <1	0.14	>99 - -	<1 - -	<1 - -	<1 - -	-	>99 - -	<1 - -	<1 - -	<1 - -	-
Qatar	2015 2020	2 566 2 881	99 99	>99 >99	<1 <1	<1 <1	<1 <1	-0.02	-	-	-	-	-	-	-	-	-	-
Republic of Korea	2015 2020	50 823 51 269	82 81	>99 >99	<1 <1	<1 <1	<1 <1		-	-	-	-	-	-	-	-	-	-
Republic of Moldova	2015 2020	4 071 4 034	42 43	89 91	1 2	10 8	<1 <1	0.37	83 85	1 2	16 13	<1 <1	0.60	97 97	2 2	2 1	<1 <1	0.11
Réunion	2015 2020	863 895	99 100	>99 >99	<1 <1	<1 <1	<1 <1	0.02	-	-	-	-	-	-	-	-	-	-
Romania	2015 2020	19 925 19 238	54 54	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00
Russian Federation	2015 2020	144 985 145 934	74 75	97 97	<1 <1	3 2	-	0.09	90 92	2 2	8 7	-	0.27	99 99	<1 <1	<1 <1	<1 <1	0.01
Rwanda	2015 2020	11 369 12 952	17 17	57 60	22 22	13 13	7 4	0.76	52 56	25 25	15 15	8 4	0.75	80 83	10 9	6 5	3 2	0.60
Saint Barthelemy	2015 2020	10 10	100 100	>99 >99	<1 <1	<1 <1	<1 <1	0.03	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.03
Saint Helena	2015 2020	6	40 40	99 >99	<1 <1	1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-
Saint Kitts and Nevis	2015 2017 2015	51 52 179	31 31 19	99 99 96	<1 <1 2	1 1 3	<1 <1 <1	-	- - 95	- 2	- 3	- <1	-	07	- 2	-	- <1	-
Saint Lucia	2015	184	19	90 97	2	1	<1	0.33	95 97	2	1	<1	0.40	97 97	2	، <1	<1	0.14
Saint Martin (French part)	2015	36	100	>99	<1	<1	<1	-0.00	-	-	-	-	-	>99	<1	<1	<1	-0.00
Saint Pierre and	2020 2015	39 6	100 90	>99 91	<1 <1	<1 9	<1 <1		-	-	-	-		>99 -	<1 -	<1	<1	
Miquelon	2020	6	90	91	<1	9	<1	-	-	-	-	-	-	-	-	-	-	-
Saint Vincent and the Grenadines	2015 2018	109 110	51 52	95 95	<1 <1	4 5	<1	-	-	-	-	-	-	-	-	-	-	-
Samoa	2015 2020	194 198	19 18	91 92	6 7	2	<1 <1	0.15	91 92	6 6	2 2	<1 <1	0.09	91 92	8 8	<1 <1	<1 <1	0.38
San Marino	2015 2020	33 34	97 97	>99 >99	<1 <1	<1 <1	<1 <1	0.00	-	-	-	-	-	-	-	-	-	-
Sao Tome and Principe	2015 2020	199 219	70 74	77 78	18 20	2 <1	3 1	0.51	71 74	17 20	4 2	8 4	0.66	80 80	19 20	<1 <1	<1 <1	0.27
Saudi Arabia	2015 2020	31 718 34 814	83 84	>99 >99	<1 <1	<1 <1	<1 <1	0.13	-	-	-	-	-	-	-	-	-	-
Senegal	2015 2020	14 578 16 744	46 48	79 85	3 2	18 13	<1 <1	1.26	66 75	5 4	28 21	<1 <1	1.75	94 95	1 <1	5 4	<1 <1	0.35
Serbia	2015 2020	8 877 8 737	56 56	93 95	6 4	<1 <1	<1 <1	0.30	95 96	5 4	<1 <1	<1 <1	0.18	92 95	7 5	<1 <1	<1 <1	0.41
Seychelles	2015 2019	95 98	55 57	96 97	<1 <1	<1 3	4	-	-	-	-	-	-	-	-	-	-	-
Sierra Leone	2015 2020	7 172 7 977	41 43	58 64	8 9	16 16	18 12	1.16	46 53	5 5	22 23	28 19	1.35	76 78	13 14	7 5	4 2	0.55

Second	Poportio improvi >90 >99 90 >99 96 99 96 99 96 99 96 99 96 99 96 99 96 99 99									solution use spplies and a solution sol						Peda >99 >99 -	
Second	<ul> <li>Vertical and the second seco</li></ul>	Available when needed           >95         55         96         >99         >999         >999         >999         >999         >999         >999         >999         >999         >87         87	Free from contamination           66         96<	Pedia >999 >999 >999 >999 >999 >999 >999 >9	Image: Non-piped           1           2           2           3	Safely managed	6 Accessible on premises	Available when needed	<b>Free from contamination</b>	Piped 99	L> Non-piped	6 Safely managed	<pre>6</pre> 6 6 6 6	Available when needed	<b>Free from contamination</b>	Piped Pibed	
5         95           0         95           5         96           00         >99           5         96           00         96           5         99           00         >99           5         72           00         74           5         97           00         94           5         82           00         82           5         76           00         76	>99 >99 99 96 96 99 >99 72 74 >99 >99 82 82	95 95 96 >99 >99 >99 >99 >99 >99 87	98 98 >99 97 97 96 99 >99 76 76	>99 >99 >99 >99 >99 >99 >99 98 >99 63	<1 <1 <1 <1 <1 <1 <1 2 <1	92 93 - - - -	99 99	92 93	еника 97	>99	<1	98 97	>99 >99	98	99	>99	<
10     95       5     96       10     >99       5     96       10     96       5     99       10     >99       5     72       10     74       5     97       10     94       5     82       10     82       10     82       10     76	>99 99 96 96 99 >99 72 74 >99 >99 82 82	95 96 >99 >99 >99 >99 >99 >99	98 >99 97 96 99 >99 76 76	>99 99 >99 >99 >99 98 >99 63	<1 <1 <1 <1 <1 2 <1	93 - - -	99	93				97	>99				
	>99 96 99 >99 72 74 >99 >99 82 82	>99 >99 >99 >99 >99 >99 87	>99 97 96 99 >99 76 76	>99 >99 >99 98 >99 63	<1 <1 <1 2 <1	- -	-	-	-	-	-	-	•	-	-	-	
76       70       76       75       72       70       74       75       77       74       75       77       74       75       74       75       74       74       75       76       76	96 99 >99 72 74 >99 >99 82 82	>99 >99 >99 87	96 99 >99 76 76	>99 98 >99 63	<1 2 <1	- -	-	-	-	-	-	-	-	-	-	-	
5 99 5 99 5 72 0 74 5 97 0 94 5 82 0 82 5 76 0 76	99 >99 72 74 >99 >99 82 82	>99 >99 87	99 >99 76 76	98 >99 63	2 <1	-	-	-	-	-	-	-	-	-	-		
5 72 0 74 5 97 0 94 5 82 0 82 5 76 0 76	72 74 >99 >99 82 82	87	76 76	63					-	-	-	-	-	-	-	-	
5 97 0 94 5 82 0 82 5 76 0 76	>99 >99 82 82	89 - -		72	27	-	- 61	- 82	-	- 42	- 42	-	- 88	- 93	-	- 90	8
0     94       5     82       0     82       5     76       0     76	>99 82 82	-	97		20		63	85	-	57	30	-	89	94	-	93	ć
0         82           5         76           00         76	82	-	94	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	
0 76	76	-	97 97	64 -	36 -	67 67	67 67	-	96 96	35 -	65 -	95 95	95 95	-	99 99	90 -	1
-	76	-	94 93	90 94	7 4	-	55 56	-	-	75 85	16 8	-	83 83	-	-	96 97	
5 10	10	68	41	38	41	4	4	64	32	31	46	- 41	41	91	86	74	1
0 12 5 >99	12 >99	71	43 >99	38 >99	44 <1	5 -	5	67	33	30	50 -	46 >99	46 >99	92	87 >99	76 >99	1
0 >99 5 89	>99 98	-	>99 89	>99 98	<1 1	-	-	-	-	-	-	>99	>99	-	>99	>99	<
0 89	99	-	89	98	<1	-	-	-	-	-	-	-	-	-	-	-	
5 - 7 -	98 98	87 87	-	98 98	<1 <1	-	-	-	-	-	-	-	-	-	-	-	
5 -	93 94	72 73	-	95 97	2 2	-	93 94	70 71	-	95 96	2 2	-	93 94	79 79	-	98 98	<
5 <b>97</b>	>99	-	97	>99	<1	-	-	-	-	-	-	97	>99	-	97	>99	<
	>99 83	- 91	97 91	>99 91	<1 <1	-	-	-	-	-	-	97 -	>99 -	-	97 -	>99 -	<
	83 94	91 70	91	91 93	<1 2	-	-	-	-	-	-	-	-	-	-	-	
8 -	94	70	-	93	2	-	-	-	-	-	-	-	-	-	-	-	
	90 91	75 75	46 46	85 84	13 14	-	90 91	-	-	84 83	14 15	-	90 91	-	-	88 87	1 1
	>99 >99	>99 >99	>99 >99	>99 >99	<1 <1	-	-	-	-	-	-	-	-	-	-	-	
5 34	34	67	77	92	3	23	23	65	55	82	6	39	39	67	86	96	4
	36 99	- 68	- 80	97 81	1 18	25 -	- 25	- 69	- 58	- 88	6	40 -	40 -	- 68	- 88	>99	<
	>99 62	49	-	84 70	16 12	-	- 44	- 46	-	- 57	- 14	-	- 84	- 54	-	- 85	(
- 0	73	53	-	75	12	-	59	51	-	65	14	-	87	54	-	85	1
	91 93	92 92	75 75	91 94	8 5	67 67	91 92	90 90	67 67	83 90	16 10	82 82	91 94	93 93	82 82	98 98	
	95 96	-	-	95 95	2 2	-	-	-	-	-	-	-	-	-	-	-	
5 <b>9</b>	15	48	10	22	44	7	7	40	8	11	39	12	26	60	12	38	5 5
	No         97           5         83           5         83           5         -           8         -           5         46           5         99           0         599           0         36           5         34           0         36           5         -           0         36           5         -           0         36           5         -           0         -           5         -           0         -           5         -           0         -           5         -           0         -           5         -           0         -           5         -           6         -           7         -           6         -           7         -           6         -           7         -           6         -           7         -           7         -           7	N         N           0         97         >99           5         83         83           0         83         83           5         -         94           5         46         90           5         46         91           5         46         91           5         46         91           5         59         >99           60         34         34           10         36         36           5         -         99           10         36         36           5         -         99           10         36         36           5         -         62           10         -         99           10         75         93           5         75         91           10         75         95           9         -         95           9         -         95           9         -         95	N         N           97         >99         -           5         83         83         91           5         83         83         91           5         63         83         91           5         -         94         70           5         -         94         70           5         46         90         75           60         46         91         75           5         >99         >99         >99           5         34         34         67           60         36         36         68           5         -         99         -           60         36         36         68           5         -         99         -           60         -         >99         -           70         -         53         53           5         75         91         92           6         -         95         -           7         95         -         95           6         9         95         -           7         96	N         N         N           0         97         >99         -         97           5         83         83         91         91           5         83         83         91         91           5         -         94         70         -           5         -         94         70         -           6         -         94         70         -           8         -         94         70         -           8         -         94         70         -           6         46         90         75         46           90         46         91         75         46           91         599         >99         >99         >99           5         34         34         67         77           60         36         36         68         80           5         -         99         -         -           6         99         -         -         -           6         99         3         92         75           6         75         93         92	No         No<	No.         Property         Property	No.         Prop.         P	No.         Prop.         P	10         97         >99         -         97         >99         <1         -	10         10<	10         10<	10         10<	10         10<	10         10<	10         10<	10         17         17         97         99         1 <td>n         n&lt;         n         n         n         n         n         n         n         n         n         n         n         n</td>	n         n<         n         n         n         n         n         n         n         n         n         n         n         n

		s)			NA	τιοΝ	IAL			F	URA	L			U	RBAI	N	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Singapore	2015	5 592 5 850	100	>99	<1	<1	<1	0.00	-	-	-	-	-	>99	<1	<1	<1	0.00
Sint Maarten (Dutch part)	2020 2015 2017	40 41	100 100 100	>99 95 95	<1 <1 <1	<1 5 5	<1 <1 <1	-	-	-	-	-	-	>99 95 95	<1 <1 <1	<1 5 5	<1 <1 <1	-
Slovakia	2015 2020	5 436 5 460	54 54	>99 >99	<1 <1	<1 <1	<1 <1	0.09	>99 >99	<1 <1	<1 <1	<1 <1	0.16	>99 >99	<1 <1	<1 <1	<1 <1	0.04
Slovenia	2015 2020	2 071 2 079	54 55	>99 >99	<1 <1	<1 <1	<1 <1	0.00	-	-	-	-	-	-	-	-	-	-
Solomon Islands	2020	603	22	>99 69	6	19	6	-0.57	63	6	23	7	-0.85	- 91	4	4	-	0.05
	2020 2015	687 13 797	25 43	67 49	6 23	21 20	6 8		59 29	7 29	27 29	7 13		91 74	4 16	4	1 <1	
Somalia	2020	15 893	46	56	28	13	2	1.64	37	37	22	4	1.57	79	17	4	<1	0.97
South Africa	2015 2020	55 386 59 309	65 67	92 94	3 3	2 1	3 2	0.47	79 83	7 7	5 4	9 6	0.86	99 >99	<1 <1	<1 <1	<1 <1	0.03
South Sudan	2015 2020	10 716 11 194	19 20	41 41	31 37	14 14	15 8	-	37 34	33 42	14 14	16 10	-	61 70	22 19	10 11	7 <1	-
Spain	2015	46 672 46 755	80 81	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	<1 <1	-0.00
Sri Lanka	2015 2020	20 908 21 413	18 19	90 92	<1 <1	7	2	0.61	88 91	1 <1	8 7	3	0.67	98 >99	<1 <1	1 <1	<1 <1	0.34
Sudan	2015 2020	38 903 43 849	34 35	59 60	26 27	6 4	9 9	0.85	52 53	27 27	8 6	13 14	0.89	73 74	25 25	<1 <1	1 1	0.67
Suriname	2015 2020	559 587	66 66	96 98	<1 1	1 <1	2 <1	0.45	91 97	1 2	1 <1	7 2	1.21	98 99	<1 <1	<1 <1	<1 <1	0.06
Sweden	2015 2020	9 765 10 099	87 88	>99 >99	<1 <1	<1 <1	<1 <1	0.02	>99 >99	<1 <1	<1 <1	<1 <1	0.07	>99 >99	<1 <1	<1 <1	<1 <1	0.01
Switzerland	2015	8 297 8 655	74	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00
Syrian Arab Republic	2020 2015	17 997	74 52	>99 94	<1 6	<1 <1	<1 <1	0.12	>99 91	<1 8	<1 <1	<1 <1	0.25	>99 95	<1 4	<1 <1	<1 <1	-0.01
	2020 2015	17 501 8 454	55 27	94 76	6 3	<1 4	<1 17		92 70	8	<1 5	<1 22		95 95	4	<1 1	<1 3	
Tajikistan	2020	9 538	28	82	3	3	12	1.27	77	3	4	16	1.62	96	<1	2	2	0.24
Thailand	2015 2020	68 715 69 800	48 51	>99 >99	<1 <1	<1 <1	<1 <1	0.31	99 >99	<1 <1	<1 <1	<1 <1	0.40	>99 >99	<1 <1	<1 <1	<1 <1	0.10
Timor-Leste	2015 2020	1 196 1 318	29 31	75 85	3 2	16 8	5 4	-	69 80	4 2	20 11	7 6	-	90 96	2 2	8 2	<1 <1	-
Togo	2015	7 323	40	64	6	17	14	1.16	47	7	23	22	1.16	88	3	8	<1	0.58
Tokelau	2020 2015	8 279 1	43 0	69 >99	6 <1	14 <1	11 <1	0.06	52 >99	8 <1	21 <1	19 <1	0.06	91 -	3	5	<1	_
Tonga	2020 2015	1	0 23	>99 99	<1 <1	<1 <1	<1 <1	0.03	>99 98	<1 1	<1 <1	<1 <1	0.01	- >99	<1	<1	<1	0.09
Trinidad and Tobago	2020 2015	106 1 370	23 53	99 98	<1 1	<1 <1	<1 <1	0.33	98 -	1	<1	<1		>99 -	<1 -	<1 -	<1	
-	2020 2015	1 399 11 180	53 68	99 95	1 3	<1 2	<1 <1		- 86	- 8	- 7	-<1		- >99	- <1	- <1	- <1	
Tunisia	2020	11 819	70	98	2	<1	<1	0.45	94	3	3	<1	1.11	>99	<1	<1	<1	0.04
Turkey	2015 2020	78 529 84 339	74 76	96 97	2 2	2 <1	<1 <1	0.17	94 96	3 3	3 <1	<1 <1	0.35	97 97	2 2	1 <1	<1 <1	0.07

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
Singapore	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	-	-	-	-	-	-	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1
Sint Maarten (Dutch part)	2015 2017	-	93 93	-	-	91 91	5	-	-	-	-	-	-	-	93 93	-	-	91 91	5
Slovakia	2015 2020	99 >99	>99 >99	-	99 >99	98	2	-	>99	-	-	>99	<1	-	>99 >99	-	-	97	3
Slovenia	2015	96	98	-	96	-	-	-	>99 -	-	-	>99	<1 -	-	-	-	-	-	-
Solomon Islands	2020 2015	98 -	98 53	38	>99	- 48	27	-	- 44	- 56	-	42	- 28	-	- 83	-	-	- 71	- 24
	2020 2015	-	52 28	37 51	-	46 37	27 35	-	41 6	53 33	-	38 17	28 41	-	83 58	- 75	-	70 63	24 27
Somalia	2020 2015	-	36 75	60 73	-	47 89	37 6	-	9 45	42 53	-	22 72	52 14	- 84	68 91	80 84	- 98	76 98	20 1
South Africa	2020	-	78	70	-	91	6	-	51	48	-	76	15	81	91	81	>99	98	2
South Sudan	2015 2020	-	2 3	-	-	6 4	66 74	-	2 3	-	-	5 3	65 73	-	5 4	-	-	11 10	72 78
Spain	2015 2020	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1	99 99	>99 >99	-	99 99	>99 >99	<1 <1	>99 >99	>99 >99	-	>99 >99	>99 >99	<1 <1
Sri Lanka	2015 2020	-	75 78	85 87	-	37 39	54 53	-	71 75	82 85	-	28 30	61 61	91 93	91 93	98 >99	98 98	77 79	22 21
Sudan	2015 2020	-	38 39	82 84	-	44 46	41 41	-	24 25	78 81	-	32 34	46 47	-	63 64	88 89	-	67 69	31 30
Suriname	2015 2020	55 56	93 96	81 83	55 56	78 80	19 19	38 41	86 93	76 82	38 41	59 64	33 34	63 63	97 98	83 83	63 63	88 89	11 11
Sweden	2015	>99	>99	-	>99	87	12	-	>99	-	-	76	23	-	>99	-	-	89	11
Switzerland	2020 2015	>99 94	>99 >99	-	>99 94	88 >99	12 <1	-	>99 >99	-	-	77 >99	23 <1	-	>99 >99	-	-	89 >99	11 <1
	2020 2015	94 -	>99 84	- 93	94 -	>99 74	<1 25	-	>99 76	- 93	-	>99 71	<1 29	-	>99 92	- 93	-	>99 78	<1 22
Syrian Arab Republic	2020 2015	- 52	85 54	94 52	- 69	71 61	29 18	-	77 42	94 48	-	71 51	29 22	-	92 88	93 62	-	71 90	29 6
Tajikistan	2020	55	60	55	74	65	19	-	49	52	-	56	24	-	90	64	-	90	7
Thailand	2015 2020	-	98 >99	99 >99	-	70 81	29 19	-	98 >99	98 >99	-	56 71	43 29	-	>99 >99	>99 >99	-	86 91	14 9
Timor-Leste	2015 2020	-	61 74	-	-	59 66	19 22	-	51 65	-	-	53 58	20 24	-	83 92	52 55	-	75 82	17 16
Тодо	2015 2020	17 20	17 20	58 62	32 34	28 25	42 50	6 7	6 7	46 51	17 18	13 13	41 48	33 37	33 37	75 77	54 55	49 42	43 52
Tokelau	2015	-	92	-	-	95	4	-	92	-	-	95	4	-	-	-	-	-	-
Tonga	2020 2015	- 29	97 98	91	29	95 >99	4 <1	- 23	97 98	90	23	95 >99	4 <1	- 51	- 99	94	51	99	<1
Trinidad and Tobago	2020 2015	30 -	98 98	91 81	30	>99 91	<1 8	23 -	98 -	90	- 23	>99	<1 -	51 -	>99	- 94	51 -	>99	<1
-	2020 2015	- 78	99 91	82 79	- 78	93 91	7 7	- 66	- 79	- 70	- 66	- 75	- 19	- 84	- 96	- 84	- 84	- 98	-
Tunisia	2020	79	89	81	79	93	7	69	79	73	69	77	20	84	94	84	84	>99	<1
Turkey	2015 2020	-	92 93	-	-	95 95	3 4	-	88 89	-	-	86 86	10 13	-	94 94	-	-	98 98	<1 <1

		ls)			NA	TION	AL			R	URA	L			U	RBA	N	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change in basic
Turkmenistan	2015	5 565	50	98	<1	<1	1	0.64	96	1	<1	2	1.04	>99	<1	<1	<1	0.18
	2020	6 031	53	>99	<1	<1	<1		>99	<1	<1	<1		>99	<1	<1	<1	
Turks and Caicos Islands	2015 2018	36 38	92 93	94 94	<1 <1	6 6	<1 <1	-	-	-	-	-	-	-	-	-	-	-
	2018	11	93 60	>99	<1	<1	<1		- >99	<1	<1	<1		- >99	<1	<1	<1	
Tuvalu	2020	12	64	>99	<1	<1	<1	-	>99	<1	<1	<1	-	>99	<1	<1	<1	-
	2015	38 225	22	48	30	15	7	4.47	40	34	18	9		77	16	7	1	0.44
Uganda	2020	45 741	25	56	27	12	5	1.47	48	32	14	6	1.46	79	14	6	1	0.44
Ukraine	2015	44 922	69	94	6	<1	<1	-0.20	99	<1	<1	<1	0.27	91	8	<1	<1	-0.42
okraile	2020	43 734	70	94	6	<1	<1	0.20	>99	<1	<1	<1	0.27	91	8	<1	<1	0.12
United Arab Emirates	2015	9 263	86	>99	<1	<1	<1	-0.00	-	-	-	-	-	-	-	-	-	-
	2020	9 890	87	>99	<1	<1	<1		-	-	-	-		-	-	-	-	
United Kingdom	2015 2020	65 860 67 886	83 84	>99 >99	<1	<1	<1 <1	-0.00	>99 >99	<1 <1	<1	<1 <1	0.00	>99 >99	<1	<1 <1	<1	0.00
United Republic of	2020	51 483	84 32	53	<1 11	<1 21	14		39	13	<1 28	20		83	<1 7	7	<1 3	
Tanzania	2020	59 734	35	61	11	15	13	1.65	45	14	21	19	1.43	89	6	2	3	1.18
United States Virgin	2015	105	95	99	<1	1	<1		-	-	-	-		-	-	-	-	
Islands	2020	104	96	99	<1	1	<1	-0.00	-	-	-	-	-	-	-	-	-	-
United States of America	2015	320 878	82	>99	<1	<1	<1		98	<1	2	<1		>99	<1	<1	<1	0.01
United States of America	2020	331 003	83	>99	<1	<1	<1	-	>99	<1	<1	<1	-	>99	<1	<1	<1	0.01
Uruguay	2015	3 412	95	>99	<1	<1	<1	0.13	91	5	4	<1	1.02	>99	<1	<1	<1	0.04
oruguay	2020	3 474	96	>99	<1	<1	<1	0.10	95	5	<1	<1		>99	<1	<1	<1	0.01
Uzbekistan	2015	30 930	51	98	<1	<1	2	0.65	96	<1	<1	4	1.01	>99	<1	<1	<1	0.22
	2020	33 469	50	98	<1	<1	2		96	<1	<1	4		>99	<1	<1	<1	
Vanuatu	2015 2020	271 307	25 26	90 91	1 1	2 <1	7 8	0.47	87 88	1	2 <1	10 10	0.52	>99 >99	<1 <1	<1 <1	<1 <1	0.18
Venezuela (Bolivarian	2020	30 082	88	95	<1	4	1		-	-	-	-			-	-	-	
Republic of)	2020	28 436	88	94	<1	6	-	-0.18	-	-	-	-	-	-	-	-	-	-
	2015	92 677	34	93	<1	6	<1		91	<1	8	<1		98	<1	2	<1	
Viet Nam	2020	97 339	37	97	<1	3	<1	0.82	96	<1	4	<1	0.98	>99	<1	<1	<1	0.21
Wallis and Futuna Islands	2015	12	0	>99	<1	<1	<1	-0.03	>99	<1	<1	<1	-0.03	-	-	-	-	_
Tractio and Futuria Istarius	2020	11	0	>99	<1	<1	<1	0.00	>99	<1	<1	<1	0.00	-	-	-	-	
Yemen	2015	26 498	35	56	26	15	3	0.99	45	29	21	5	1.07	76	21	3	<1	0.17
	2020	29 826	38	61	29	8	3		51	34	12	4		77	21	2	<1	
Zambia	2015	15 879	42	61	6	23	10	0.86	44	7	33	16	0.94	86	3	10	1	0.17
	2020	18 384	45	65	6	22	7		48	8	32	12		87	3	9	<1	
Zimbabwe	2015	13 815 14 863	32	65 63	12	16 16	7 7	-0.46	51 49	16	23	10	-0.58	94 02	4	2	<1	-0.13
	2020	14 003	32	63	14	16	/		48	19	23	10		93	5	2	<1	

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COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
Turkmenistan	2015 2020	91 95	93 >99	98 >99	91 95	53 52	46 48	85 92	90 >99	97 >99	85 92	26 24	72 76	96 97	96 >99	>99 >99	97 97	80 77	20 23
Turke and Oxions Islands	2015	-	90	-	-	68	26	-	-	-	-	-	-	-	-	-	-	-	-
Turks and Caicos Islands	2018	-	90	-	-	68	26	-	-	-	-	-	-	-	-	-	-	-	-
Tuvalu	2015 2020	-	98	-	-	>99	<1	-	-	-	-	>99	<1	50	-	>99 >99	50	>99	<1
	2020	- 12	98 12	- 69	- 47	- 20	- 58	- 6	- 6	- 66	- 34	- 10	- 64	50 36	- 36	>99	50 91	>99 55	<1 37
Uganda	2020	17	17	73	62	23	60	8	8	72	52	13	67	43	43	78	93	53	40
Ukraine	2015	89	92	-	93	68	32	89	99	-	89	33	66	89	89	-	95	83	16
	2020	89	92	-	94	64	36	90	>99	-	90	29	71	89	89	-	95	79	20
United Arab Emirates	2015 2020	-	99 99	>99 >99	-	93 >99	7 <1	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	2015	>99	>99	-	>99	>99	<1	-	>99	-	-	>99	<1	-	>99	-	-	>99	<1
United Kingdom	2020	>99	>99	-	>99	>99	<1	-	>99	-	-	>99	<1	-	>99	-	-	>99	<1
United Republic of Tanzania	2015	-	24	30	-	37	28	-	12	28	-	25	27	-	48	34	-	62	29
United States Virgin	2020 2015	- 98	36 98	33	- 99	38 47	34 52	-	20	32	-	26	34	-	- 66	36	-	60	36
Islands	2020	98	98	-	99	47	52	-	-	-	-	-	-	-	-	-	-	-	-
United States of America	2015 2020	96 97	>99 >99	96 97	>99 >99	99 99	<1 1	-	97 >99	94 97	-	95 95	3 5	97 97	>99 >99	97 97	>99 >99	>99 >99	<1 <1
Uruguay	2015	-	98	>99	-	>99	<1	-	91	-	-	91	5	94	99	>99	94	>99	<1
	2020 2015	- 59	99 59	>99	- 91	>99 71	<1 27	- 31	95 31	-	- 88	>99 53	<1 43	95 86	99 86	>99 99	95 93	>99 89	<1 10
Uzbekistan	2013	59 59	59 59	-	91 91	70	27	31	31	-	88	53 52	43 44	86	86	>99 >99	93 93	88	11
Vanuatu	2015	-	50	-	-	48	43	-	43	-	-	38	51	56	71	-	56	79	21
	2020	-	50	-	-	48	45	-	43	-	-	37	53	57	71	-	57	78	22
Venezuela (Bolivarian Republic of)	2015 2020	-	86 86	49 26	-	81 79	14 15	-	-	-	-	-	-	-	-	-	-	-	-
Viet Nam	2015 2020	-	93 97	-	-	39 48	54 48	-	91 96	-	-	20 26	71 69	-	98 >99	98 >99	-	76 85	22 14
Wallis and Futuna Islands	2015 2020	59 59	99 98	-	59 59	>99 99	<1 <1	59 59	99 98	-	59 59	>99 99	<1 <1	-	-	-	-	-	-
Yemen	2015 2020	-	44 49	52 57	-	51 56	31 34	-	29 33	47 54	-	39 43	35 41	-	73 74	60 61	-	74 77	23 22
Zambia	2015 2020	-	27 30	49 52	-	32 32	35 39	-	7 9	48 53	-	5 5	46 52	50 50	54 57	50 50	89 90	70 66	19 24
Zimbabwe	2015 2020	30 30	34 31	60 60	41 41	31 27	47 49	14 13	14 13	58 57	28 28	10 9	58 58	65 65	75 68	65 65	68 69	74 67	23 31

### Annex 4:

# NATIONAL SANITATION ESTIMATES

2020       2 878       62       >99       <1       <1       >99       <1       <1       >99       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1	-0.33 -0.02 -0.04
Afghanistan       2020       38 928       26       50       11       28       11 $1.43$ $0.77$ $33$ 15 $1.27$ $0.33$ $67$ $21$ $12$ $11$ $1.79$ Albania       2015       2 891       57       98       1       1 $11$ $24$ $-0.49$ <	-0.02
Albania       2015       2 891       57       98       1       1       <1       Output       96       1       2       <1       Output       99       <1       <1       <1         2020       2 878       62       >99       <1	-0.04
Albania       2020       2 878       62       >99       <1       <1       0.49       -0.04       >99       <1       <1       0.76       -0.06       >99       <1       <1       0.12         2015       39 728       71       87       9       3       1       78       11       7       4       90       8       1       <1	-0.04
Alexania 2015 39728 71 87 9 3 1 0.07 0.01 78 11 7 4 0.00 0.70 90 8 1 <1 0.17	-
	-
2020 43 851 74 <b>86</b> 11 4 <1 <b>79</b> 12 9 <1 <b>88</b> 10 2 <1	-
American Samoa         2015         56         87         57         42         <1         <1         - <td>0.00</td>	0.00
2015 78 88 >99 <1 <1 <1 >99 <1 <1 <1 >99 <1 <1 <1	0.00
Andorra 2020 77 88 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 >99 <1 <1 0.00 0.00 0.00 >99 <1 <1 0.00 0.00 0.00 >99 <1 <1 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
Angola 2015 27 884 63 47 19 11 23 1.21 -1.24 21 5 17 56 0.83 -0.63 62 27 7 3 0.89	-0.96
Angola       2020       32 866 67       52       21       9       18       1.21       -1.24       24       6       15       54       0.83       -0.63       65       28       6       1	-0.70
Anguilla         2015         14 100         97         2         <1         -         -         -         97         2         <1         <1	-
Antigua and         2015         94         25         88         4         8         <1         -	-
2015 43 075 92 <b>95</b> 2 3 - <b>77</b> 4 20 - <b>97</b> 2 <1 <1	
Argentina 2020 45 196 92 99 1 <1 <1	-0.07
Armenia 2015 2 926 63 93 <1 6 <1 0.35 -0.00 82 2 16 <1 0.31 -0.00 >99 <1 <1 <1 0.38	-0.00
2020 2 963 63 94 <1 6 <1 0.35 -0.00 83 1 15 <1 0.31 -0.00 >99 <1 <1 <1 0.38	-0.00
Aruba	-
2016 105 43 <b>98</b> <1 <1 <b>1</b>	
Australia         2015         23 932         86         >99         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1	-
2015 8 679 58 >99 <1 <1 <1 >99 <1 <1 <1 >99 <1 <1 <1 >1 >99 <1 <1 <1	
Austria 2020 9 006 59 >99 <1 <1 <1 <1 -0.00 0.00 >99 <1 <1 <1 0.00 0.00 >99 <1 <1 <1 <1 -0.00	0.00
Azerbaijan 2015 9 623 55 96 3 1 <1 96 2 2 <1 96 4 <1 <1	-0.00
2020 10 139 56 <b>96</b> 4 <1 <1	0.00
2015         374         83         95         3         2         <1         -	-
2019 389 83 <b>95</b> 3 2 <b>&lt;1</b>	
Bahrain         2013         1372         67         79         1 <th1< th="">         1         <th1< th="">         &lt;</th1<></th1<>	-
2015 156 256 34 47 21 29 3 45 17 34 4 50 29 20 <1	
Bangladesh         2020         164 689         38         54         24         22         <1         1.52         -0.84         55         18         27         <1         1.83         -1.02         53         33         15         <1         0.60	-0.25
Barbados 2015 285 31 96 2 <1 <1	_
2020 287 31 98 2 <1	
Belarus         2015         9 439         77         98         2         <1         <1         0.32         0.00         97         2         2         <1         0.05         0.00         98         2         <1         <1         0.42	0.00
2020       9 449       79       98       2       <1	
Belgium         2015         11 288         96         299         <1         <1         <1         <1         <1         <1         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         99         <1         <1         <1         0.00         0.00         0.00         999         <1         <1         <1         0.00         0.	0.00
2015 361 45 87 9 3 1 83 11 4 2 92 6 1 <1	
Belize 2020 398 46 88 9 2 <1 0.29 -0.19 84 12 4 <1 0.18 -0.34 94 6 <1 <1 0.41	-0.03

'-' = no estimate. For JMP estimate methods see Annex 1. For unrounded estimates see www.washdata.org

				N	IATIO	ONAL						RUI	RAL						URI	BAN		
COUNTRY,		of usi sanit	f pop ing in tatior	ortion ulation nprov n faci ng sha	on /ed lities	of p usin sanita	oportio opulat g impro tion fac ding sh	ion oved cilities	of usi sanit	pop ng in atior	ortior ulation prov n faci g sha	on ved lities	of p usin sanita	roportio populating impro- ition fa- iding sh	tion oved cilities	of usi sanit	Propo popu ng in ation ludin	ulatio nprov n faci	on ved lities	of ן usin sanita	roportio populating impro- ition fa- iding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Afghanistan	2015 2020	-	-	-	-	42 49	8 9	3 3	-	-	-	-	42 49	2 2	<1 1	-	-	-	-	41 51	27 28	9 9
Albania	2015	46	9	4	33	15	7	77	50	19	9	22	32	14	51	44	1	<1	42	2	2	96
	2020 2015	48 19	9 5	4	35 13	16 4	4 8	79 84	54 23	21 14	9 <1	23 9	39 9	8 21	53 58	44 17	2 2	<1 <1	42 15	2	2 3	96 94
Algeria	2020	18	4	<1	14	3	6	88	23	12	<1	10	9	18	64	16	<1	<1	15	<1	1	97
American Samoa	2015 2020	-	-	-	24	11 11	39 39	49 49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2020	- >99	<1	<1	23 >99	<1	-	>99	- >99	<1	<1	>99	<1	-	>99	- >99	<1	<1	>99	<1	-	>99
Andorra	2020	>99	<1	<1	>99	<1	-	>99	>99	<1	<1	>99	<1	-	>99	>99	<1	<1	>99	<1	-	>99
Angola	2015 2020	-	-	-	-	7 1	47 58	13 13	-	-	-	-	5 4	20 25	1	-	-	-	-	7 <1	63 75	19 19
Anguilla	2015	-	-	-	-	4	94	1	-	-	-	-	-	-	-	-	-	-	-	4	94	1
	2017	-	-	-	-	4	94	1	-	-	-	-	-	-	-	-	-	-	-	4	94	1
Antigua and Barbuda	2015 2017	-	-	-	-	11 11	79 79	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Argentina	2015	51	14	7	25	16	25	57	-	-	-	2	38	37	5	47	12	7	28	14	24	61
0	2020 2015	- 62	- 12	- 7	- 43	- 23	- 2	- 69	-	-	-	- 13	- 58	- 5	- 21	47 62	11	6 <1	30 60	12 2	22 <1	66 97
Armenia	2020	69	11	8	51	21	2	71	-	-	-	16	56	6	22	71	<1	<1	71	<1	<1	>99
Aruba	2015	-	-	-	5	2	91	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2016 2015	- 69	- <1	- <1	5 69	2 <1	91 11	5 89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia	2020	74	<1	<1	74	<1	11	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Austria	2015 2020		4	4 4	92 93	1 1	7 6	92 93	>99 >99	7 7	7 7	84 84	<1 <1	15 15	84 84	>99 >99	<1 <1	<1 <1	98 98	2 2	<1 <1	98 98
Amerika	2020		21	1	2	43	5	51	-	-	-	<1	78	5	14	12	8	<1	4	15	5	81
Azerbaijan	2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	4	<1	4	7	5	88
Bahamas	2015 2019	-	-	-	-	<1 <1	77 77	21 21	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Bahrain	2015	86	<1	<1	86	<1	14	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dumum	2020 2015		<1 32	<1 <1	91 2	<1 44	9 18	91 7	- 34	- 34	- <1	- <1	- 49	- 12	- <1	- 32	- 26	- <1	- 6	- 34	- 27	- 18
Bangladesh	2013		36	<1	2	49	20	9	42	42	<1	<1	57	16	<1	34	26	<1	7	35	27	23
Barbados	2015	-	-	-	-	88	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2020 2015	- 76	- 10	-	- 62	92 17	4 9	3 74	- 55	- 30	- <1	- 25	46	- 22	30	- 82	5	-	-73	- 8	- 5	- 87
Belarus	2020	74	9	4	61	14	11	74	49	27	<1	22	41	31	26	80	4	5	71	7	7	86
Belgium	2015 2020		4 <1	4	77 89	7 <1	15 11	78 89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dalias	2020	-	-	<1	-	28	59	9		-	-	-	43	51	<1		-	-	-	9	69	20
Belize	2020	-	-	-	-	25	64	9	-	-	-	-	39	56	<1	-	-	-	-	8	73	18

COUNTRY,		nousands)	an			NAT	ION	AL				RL	IRAL	-				UR	BAN	I
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic Annual rate of change in open defecation
Benin	2015 2020	10 576 12 123	46 48	15 17	19 20	11 12	55 52	0.39	-0.80	6 8	9 10	10 11	75 70	0.27	-0.82	25 27	30 30	12 12	33 31	0.33 -0.25
Bermuda	2015 2020	64	100 100	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	-0.00 0.00
Bhutan	2015	728	39	70	9	19	2	1.48	-0.49	67	6	25	3	1.90	-0.59	75	15	9	<1	0.23 -0.21
Bolivia (Plurinational	2020 2015	772 10 870	42 68	77 57	10 19	14 9	<1 15			76 35	7 6	17 19	<1 40			77 67	14 25	9 5	<1 4	
State of)	2020	11 673	70	66	17	7	10	1.55	-1.17	44	4	19	33	1.50	-1.50	75	23	2	<1	1.36 -0.74
Bosnia and	2015	3 429	47	95	<1	4	<1	_	-	92	<1	7	<1	-	-	99	<1	<1	<1	0.02 -0.02
Herzegovina	2020	3 281	49	-	-	-	-			-	-	-	-			99	<1	<1	<1	0.02 0.02
Botswana	2015 2020	2 121 2 352	67 71	75 80	5 6	8 5	12 10	1.41	-0.60	49 52	10 11	8 5	34 31	0.98	-0.53	87 91	3 4	8 4	1 <1	1.13 -0.14
Duranil	2015	204 472		86	<1	12	2	0.05	0.40	56	<1	33	10	1.00	- /-	91	<1	8	<1	0.40.015
Brazil	2020	212 559	87	90	<1	10	<1	0.85	-0.43	63	<1	34	2	1.32	-1.61	94	<1	6	<1	0.63 -0.15
British Virgin Islands	2015 2016	29 29	47 47	97 97	<1 <1	3 3	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	
Brunei	2015	415	77	96	<1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	
Darussalam	2020 2015	7 200	- 74	- 86	-	- <1	- <1			- 84	- 16	- <1	- <1			- 87	- 13	- <1	- <1	
Bulgaria	2013	6 948		86	14	<1	<1	0.01	0.00	84	16	<1	<1	-0.00	0.00	87	13	<1	<1	0.00 0.00
Burkina Faso	2015	18 111	28	20	26	7	48	0.55	-1.63	11	18	8	63	0.56	-1.58	43	45	5	7	-0.41 -0.15
Durkina raso	2020	20 903		22	32	6	40	0.00	1.00	13	24	8	55	0.00	1.00	40	51	3	6	0.41 0.10
Burundi	2015 2020	10 160 11 891		46 46	11 13	41 39	3 3	0.03	-0.01	46 46	7 7	44 43	3 3	0.04	0.00	42 41	41 46	16 12	<1 <1	0.03 -0.08
	2015	525	64	70	6	<1	23			59	3	<1	38			77	8	<1	15	
Cabo Verde	2020	556	67	79	6	<1	14	1.98	-1.85	72	1	<1	27	2.54	-2.24	83	9	<1	8	1.35 -1.28
Cambodia	2015	15 521		53	7	4	36	2.95	-3.38	45	7	4	44	3.05	-3.64	83	7	2	8	2.01 -1.84
	2020 2015	16 719 23 298		69 43	8 16	4 35	19 6			61 23	8	5 58	25 12			93 59	7 25	<1 16	<1 <1	
Cameroon	2020	26 546		45	15	35	6	0.35	-0.12	23	5	60	12	-0.07	-0.09	61	22	16	<1	0.36 -0.01
Canada	2015	36 027	81	>99	<1	<1	<1	-0.04	0.00	99	<1	1	<1	-0.02	0.00	>99	<1	<1	<1	-0.05 0.00
Callada	2020	37 742		>99	<1	<1	<1	0.04	0.00	99	<1	1	<1	0.02	0.00	>99	<1	<1	<1	0.00 0.00
Cayman Islands	2015 2016		100 100	84 84	12 12	4 4	<1 <1	-	-	-	-	-	-	-	-	84 84	12 12	4 4	<1 <1	
Central African	2015	4 493		16	14	46	25			7	5	50	37			29	26	39	6	
Republic	2020	4 830	42	14	16	45	25	-0.32	0.12	6	6	49	39	-0.17	0.24	25	29	39	7	-0.69 0.13
Chad	2015 2020	14 111 16 426	23 24	11 12	5 5	18 19	66 64	0.11	-0.36	4 4	1 1	14 16	80 79	-0.14	-0.36	34 40	19 18	30 26	17 17	0.86 -0.08
Channel Islands	2015	165		99	<1	2	<1			-	-	-	-			-	-	-	-	
Channel Islands	2017	169	31	99	<1	2	<1	-	-	-	-	-	-	-	-	-	-	-	-	
Chile	2015	17 969	87	>99	<1	<1	<1	0.39	-0.11	97 >99	<1	1	1	1.58	-0.17	>99 >99	<1	<1	<1	0.19 -0.11
	2020 2015	19 116 1 430 405		>99 84	<1 3	<1 12	<1 <1			>99 76	<1 3	<1 20	<1 1			>99 91	<1 3	<1 6	<1 <1	
China	2020	1 463 141		92	3	5	<1	1.77	-0.11	88	3	9	<1	2.14	-0.18	95	2	2	<1	0.86 0.01
China,	2015	7 186		97	<1	3	<1	-0.01	0.00	-	-	-	-	-	_	97	<1	3	<1	-0.01 0.00
Hong Kong SAR	2020	7 497		97	<1	3	<1			-	-	-	-			97	<1	3	<1	
China, Macao SAR	2015 2020		100 100	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.00 0.00

				Ν	IATI	ONAI	-					RU	RAL						URE	BAN		
COUNTRY,		o us sani	Propo f pop ing in tatior ludin	ulatio nprov n faci	on /ed lities	of usir sanita	roporti popula ig impr ition fa iding sl	tion oved cilities	of usi sanit	f pop ing ir tatio	ortior ulation nprov n faci ng sha	on /ed lities	of usin sanita	roportic populat ng impro ation fac uding sh	ion oved cilities	o us sani	Propo f pop ing in tatior ludin	ulatio nprov n faci	on ved lities	of   usin sanita	roportion populating impro- ntion fa- nding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Benin	2015 2020	-	-	-	-	29 31	4	<1 <1	-	-	-	-	15 17	<1 <1	<1 <1	-	-	-	-	45 46	8 8	2 2
Bermuda	2015 2020	-	-	-	2 2	95 95	-	5	-	-	-	-	-	-	-	-	-	-	2 2	95 95	-	5 5
Bhutan	2015 2020	63 65	52 49	2 1	9 15	14 8	55 61	10 18	64 67	61 62	<1	3 5	21 13	48 65	3 5	60 63	38 31	4 3	19 29	2 <1	65 56	22 35
Bolivia (Plurinational	2020	46	9	8	28	18	12	46	-	-	<1	4	29	7	5	53	7	6	40	13	14	64
State of)	2020	53	10	9	33	20	13	50	-	-	-	5	34	8	6	60	8	7	45	13	15	69
Bosnia and Herzegovina	2015 2020	35	- 25	<1 -	10 -	<1	41	- 55	-	-	-	5	<1 -	- 64	29	19 30	4	<1 1	15 25	<1 <1	16 16	84 84
Botswana	2015	-	-	-	-	74	5	1	-	-	-	-	56	3	<1	-	-	-	-	83	6	2
Dotomana	2020 2015	- 44	- 8	-	- 32	79 9	5 15	1 62	-	-	-	-	60 24	3 26	<1 7	- 46	- 7	- 3	- 36	87 7	6 13	2 72
Brazil	2013	49	7	4	38	8	13	69	-	-	-	5	24	20	9	51	5	3	43	5	11	72
British Virgin Islands	2015 2016	-	-	-	-	2 2	73 73	22 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brunei Darussalam	2015 2020	-	-	-	-	1	-	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2020	63	3	3	56	<1	16	84	52	10	8	35	<1	47	53	66	1	<1	64	<1	6	94
Bulgaria	2020	72	3	3	67	<1	14	86	60	9	8	43	<1	42	58	76	<1	<1	74	<1	5	95
Burkina Faso	2015 2020	-		-	-	43 51	2 2	<1 <1	-	-	-	-	29 38	<1 <1	<1 <1	1	-	-	-	80 83	6 6	2 2
Burundi	2015 2020	-	-	-	-	53 54	3 4	<1 <1	-	-	-	-	53 54	<1 <1	<1 <1	-	-	-	-	53 57	24 28	5 2
Cabo Verde	2015 2020	-	-	-	-	<1 2	53 56	22 28	-	-	-	-	1 <1	59 71	1 2	-	-	-	-	<1 2	51 48	34 41
Cambodia	2015 2020	-	-	-	-	<1 <1	47 60	14 17	-	-	-	-	<1 <1	47 63	5	-	-	-	-	<1 <1	45 52	45 48
Cameroon	2015	-	•	-	-	47	11	<1	-	•	-	-	29	<1	<1	-	-	-	-	62	20	2
Cameroon	2020	-	-	-	- 69	46 5	13 11	1	- 83	-	-	- 52	27 2	1 35	<1 63	-	- <1	-	- 73	60 6	22	2 87
Canada	2015 2020	83 84	<1 <1	13 14	70	6	11	82 81	84	2 2	28 29	52	2	35	62	83 84	<1	10 10	74	7	6 6	86
Cayman Islands	2015 2016	-	•	-	16 16	7 7	70 70	19 19	-	-	-	-	-	-	-	-	-	-	16 16	7 7	70 70	19 19
Central African Republic	2015 2020	15 14	15 14	<1 <1	<1 <1	29 30	<1 <1	<1 <1	7 6	7 6	<1 <1	<1 <1	12 12	<1 <1	<1 <1	28 24	28 24	<1 <1	<1 <1	54 53	<1 <1	<1 <1
Chad	2015	9	9	<1	<1	15	<1	<1	4	4	<1	<1	5	<1	<1	28	27	<1	<1	48	3	2
	2020 2015	10 82	10 <1	<1 <1	<1 82	16 <1	<1 17	<1 82	3	3	<1	<1	-	<1 -	<1 -	32	32 -	<1 -	<1	53 -	3	2
Channel Islands	2017	82	<1	<1	82	<1	17	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chile	2015 2020	71 79	4 3	3 3	65 73	3 2	9 9	87 89	-	-	-	14 16	20 14	59 66	19 20	73 81	<1 <1	<1 <1	72 81	<1 <1	2 2	97 98
China	2015	52	3	2	48	19	9	60	29	5	<1	24	37	12	30	71	1	3	66	5	6	83
	2020	70	3	2	64	17	11	67	44	6	<1	38	35	15	40	86	2	4	80	6	8	84
China, Hong Kong SAR	2015 2020	86 86	2 2	2 2	83 83	3 3	-	93 93	-	-	-	-	-	-	-	86 86	2 2	2 2	83 83	3 3	-	93 93
China,	2015		<1	<1	61	<1	-	>99	-	-	-	-	-	-	-	61	<1	<1	61	<1	-	>99
Macao SAR	2020	67	<1	<1	67	<1	-	>99	-	-	-	-	-	-	-	67	<1	<1	67	<1	-	>99

COUNTRY,	nousands)	an		I	NATI	ION	AL				RU	IRAL					UR	BAN	I	
AREA OR TERRITORY	rear Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Colombia 20 20			89 94	6 3	1 <1	4 3	0.94	-0.30	78 84	4 3	3 <1	15 11	1.30	-0.81	92 96	6 3	<1 <1	<1 <1	0.76	-0.07
20 20 20	15 77	7 28	36 36	13 13	50 51	<1	-	-	32 32	12 12	56 56	<1	-	-	45 45	17 17	37 38	<1	-	-
20 Congo 20	15 4 85	6 66	19 20	33 34	40 37	9 8	0.43	0.01	6	9	63 62	22 23	0.02	0.35	26 27	45 46	28 25	2 2	0.55	-0.06
Cook Islands	15 1	8 74	98 >99	<1	2	-	0.34		-	-	-	-	-	-	-	-	-	-	-	-
20 Costa Rica	15 4.84		97	<1	<1 2	<1	0.21	-0.03	94	-	4	<1	0.38	-0.05	- 98	<1	-	<1	0.07	-0.02
20 Côte d'Ivoire 20 20	15 23 22	6 49	98 31 35	<1 22 23	1 20 18	<1 28 25	0.68	-0.53	97 16 21	<1 15 14	3 23 24	<1 46 41	0.66	-0.90	98 45 48	<1 30 30	<1 16 12	<1 9 10	0.44	0.27
Croatia 20 20	15 4 23	3 56	96 97	2 2	1 <1	<1 <1	0.02	0.00	95 95	4	2 2	<1 <1	0.01	0.00	98 98	2 2	<1 <1	<1 <1	0.02	0.00
<b>Cuba</b> 20	15 11 32	5 77	90 91	3 2	6 7	<1 <1	0.16	-0.07	84 86	4 <1	11 12	2 <1	0.37	-0.19	92 93	3 2	4 5	<1 <1	0.08	-0.03
20 <b>Curaçao</b> 20			99 99	<1 <1	<1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Cyprus</b> 20			>99 >99	<1 <1	<1 <1	<1 <1	-0.02	0.00	99 99	<1 <1	1 1	<1 <1	-0.05	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Czech Republic 20			>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Democratic People's 20 Republic of Korea 20			82 85	2 <1	16 15	<1 <1	-	-	71 73	<1 <1	28 27	<1 <1	-	-	88 92	3 1	9 7	<1 <1	-	-
Democratic Republic <sup>20</sup> of the Congo 20		5 43 1 46	17 15	21 20	50 52	12 12	-0.43	0.08	14 11	11 9	57 61	18 19	-0.63	0.21	22 20	33 33	42 43	4 4	-0.21	0.07
Denmark 20		9 88 2 88	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
<b>Djibouti</b> 20 20		4 77 8 78	61 67	6 7	15 10	17 16	0.98	-0.16	19 22	2 2	14 12	65 64	0.52	-0.19	74 79	7 8	16 10	3 3	1.07	-0.08
Dominica 20		1 70 1 70	80 80	3 3	11 11	6 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic 20		2 79 8 83	85 87	10 9	2 1	3 2	0.48	-0.14	75 77	14 14	4 3	7 6	0.35	-0.18	87 89	9 8	1 1	2 1	0.36	-0.05
20 Ecuador 20		2 63 3 64	86 92	9 7	2 <1	3 <1	1.10	-0.65	80 89	7 8	3 <1	9 3	1.79	-1.29	90 93	9 7	<1 <1	<1 <1	0.65	-0.22
<b>Egypt</b> 20		3 43 4 43	96 97	3 2	1 1	<1 <1	0.30	-0.09	94 96	4 3	2 2	<1 <1	0.34	-0.12	99 >99	1 <1	<1 <1	<1 <1	0.25	-0.04
El Salvador 20 20		5 70 6 73	83 82	14 17	<1 <1	2 <1	-0.05	-0.48	72 70	20 27	2 2	6 1	-0.20	-0.93	88 87	11 13	<1 <1	<1 <1	-0.15	-0.14
Equatorial Guinea 20 20		9 71 2 72	66 66	10 10	21 21	3 3	-	-	57 57	6 6	33 33	4 4	-	-	70 70	11 11	16 16	3 3	-	-
Eritrea 20 20		3 38 7 39	12 12	10 10	11 11	67 67	-	-	6 6	2 2	4 4	89 89	-	-	22 22	22 22	23 23	33 33	-	-
Estonia 20 20	15 131	5 68 7 69	>99 >99	<1 <1	<1 <1	<1 <1	-0.03	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	-0.04	0.00
Eswatini 20	15 110	4 23 0 24	61 64	22 22	9 10	8 4	0.79	-0.98	62 68	17 16	10 11	10 5	1.26	-1.24	55 52	38 41	7 7	<1 <1	-0.73	-0.08

				N	IATI	ONAI	L					RUI	RAL						URE	BAN		
COUNTRY,		of usi sanit	f pop ing in tatio	ortion ulation nprov n faci ng sha	on /ed lities	of usir sanita	roporti popula ng impr ation fa uding sl	tion oved cilities	of usi sanit	Propo f pop ing in tatior ludin	ulatio nprov n faci	on ved lities	of p usin sanita	roportio populat g impro ition fac iding sh	ion oved cilities	of usi sanit	Propo populari ng in tation ludin	ulatio nprov n faci	on /ed lities	of ן usin sanita	roportio populating impro- ition fa- iding sh	tion oved cilitie:
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Colombia	2015	18	5	<1	12	3	16	76	-	-	-	2	11	57	14	16	2	<1	14	1	5	92
Comoros	2020 2015 2019	18 - -	5 - -	<1	12 - -	3 38 38	16 5 5	78 5 5	-	-	-	2 - -	11 36 36	64 4 4	13 4 4	17 - -	2	<1 - -	15 - -	1 44 44	5 10 10	93 8 8
Congo	2015 2020	-	-	-	-	37 38	13 15	1	-	-	-	-	14 14	<1 <1	<1 <1	-	-	-	-	50 50	19 22	2
Cook Islands	2015 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Costa Rica	2015 2020	32 30	20 21	<1 <1	12 9	<1 <1	74 77	24 21	37 37	34 34	<1 <1	3 2	1 <1	89 92	5 5	31 29	16 18	<1 <1	14 11	<1 <1	69 74	30 25
Côte d'Ivoire	2015 2020	-	-	-	-	31 33	15 17	7 7	-	-	-	-	24 27	6 7	1 1	-	-	-	-	39 39	24 27	13 12
Croatia	2015 2020	74 68	11 11	11 9	52 47	5 5	36 36	57 58	-	-	-	26 23	8 8	61 61	29 29	84 76	6 6	5 5	73 65	3 3	17 17	79 79
Cuba	2015 2020	37 37	23 19	1 <1	13 16	19 16	21 16	54 61	53 51	48 44	<1 <1	5 7	43 37	23 22	21 27	33 32	15 12	1	16 19	12 10	20 14	64 71
Curaçao	2015 2017	-	-	-	3	<1 <1	81 81	18 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyprus	2015 2020	77 77	11 11	11 11	54 55	<1 <1	45 45	54 55	-	-	-	16 18	<1 <1	83 81	16 18	86 86	7 7	7 7	73 73	<1 <1	27 27	73 73
Czech Republic	2015 2020	81 85	<1 <1	<1 <1	81 85	<1 <1	17 14	83 86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Democratic People's Republic of Korea	2015 2020	-	<1 <1	-	-	27 32	8	48 42	9 1	<1 <1	<1 <1	9 <1	42 55	12 17	17 2	-	1	-	-	18 19	6 7	68 67
Democratic Republic of the Congo	2015 2020	15 13	15 13	<1 <1	<1 <1	31 26	7 9	<1 <1	14 11	14 11	<1 <1	<1 <1	25 20	<1 <1	<1 <1	16 15	16 14	<1 <1	<1 <1	38 33	15 20	1 <1
Denmark	2015 2020	90 92	<1 <1	<1 <1	90 92	<1 <1	9 8	91 92	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Djibouti	2015 2020	34 37	31 35	<1 <1	2 2	51 57	11 11	5 5	18 21	18 21	<1 <1	<1 <1	21 24	<1 <1	<1 <1	38 42	35 39	<1 <1	3 3	60 67	15 15	7 7
Dominica	2015 2017	-	-	-	-	9 9	61 61	13 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	2015 2020	-	-	-	-	18 11	57 69	20 16	-	-	-	-	39 31	46 57	5 3	-	-	-	-	13 7	60 71	24 19
Ecuador	2015 2020	42 42	27 25	<1 <1	15 17	8 5	27 27	60 67	55 60	49 53	<1 <1	6 7	19 14	45 54	24 28	34 31	13 9	<1 <1	20 22	2 <1	17 12	81 88
Egypt	2015 2020	63 67	9 7	7 5	47 55	3	31 21	64 74	58 63	14 12	11 9	32 42	6 6	49 37	43 55	70 73	2 <1	1 <1	67 73	<1 <1	8 <1	92 >99
El Salvador	2015 2020	-	-	-	2	39 36	17 20	41 43	-	-	-	<1 <1	73 74	18 23	1 <1	18 17	15 14	<1 <1	2	25 23	16 19	58 58
Equatorial Guinea	2015 2017	-	-	-	-	59 59	6	11 11	-	-	-	-	52 52	5 5	7 7	-	-	-	-	63 63	7	12 12
Eritrea	2015 2016	-	-	-	-	13 13	5 5	3	-	-	-	-	7 7	1	<1 <1	-	-	-	-	24 24	12 12	8
Estonia	2015 2020	93 93	6 5	6 5	81 84	12 10	5 4	83 86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eswatini	2015 2020	-	-	-	3	67 69	6	9 10	-	-	-	1	74 78	3 3	3 3	-	-	-	10 9	46 42	16 21	30 30

COUNTRY,		housands)	an			NAT	ION	AL				RU	IRAL					UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Ethiopia	2015 2020	100 835 114 964	19 22	7 9	7 9	54 65	32 17	0.31	-3.00	5 5	2 3	56 71	37 21	0.24	-3.28	20 21	30 31	43 45	8 3	0.30	-0.98
Faeroe Islands	2015 2020	48	42	91 -	<1	9	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falkland Islands (Malvinas)	2015 2020	3	76 79	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Fiji	2015 2020	869 896	55 57	96 >99	2	2	<1 <1	0.98	-0.03	95 >99	2	3	<1 <1	1.43	-0.06	97 >99	2	<1 <1	<1 <1	0.49	-0.01
Finland	2015	5 481	85	>99	<1	<1	<1	-0.00	0.00	>99	<1	<1	<1	-0.00	0.00	>99 >99	<1	<1	<1	0.00	0.00
France	2020 2015 2020	5 541 64 453 65 274	86 80 81	>99 99 99	<1 1 1	<1 <1 <1	<1 <1 <1	-0.00	0.00	>99 99 99	<1 1 1	<1 <1 <1	<1 <1 <1	0.00	0.00	>yy 99 99	<1 1 1	<1 <1 <1	<1 <1 <1	0.00	0.00
French Guiana	2020 2015 2020	261 299	84 86	92 92	<1 <1	8	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
French Polynesia	2020 2015 2020	273 281	62 62	97 97 97	<1 <1	3	<1 <1	-0.05	-0.08	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	2020 2015 2020	1 948 2 226	88 90	49 50	28 29	21 19	2	0.79	-0.01	40 40	15 15	41 40	5 5	0.50	0.06	50 51	30 30	19 17	2	0.79	-0.00
Gambia	2015 2020	2 086 2 417	59 63	46 47	20 13	33 40	1 <1	-0.21	-0.27	34 26	11 8	52 66	3 <1	-1.70	-0.48	55 60	25 16	20 24	<1 <1	0.88	-0.05
Georgia	2015 2020	4 024	57 59	87 86	2	12 13	<1 <1	-0.24	-0.05	76 72	<1 <1	23 27	<1 <1	-0.76	-0.11	94 95	2	3	<1 <1	0.08	0.00
Germany	2015 2020	81 787 83 784	77 77	>99 >99	<1	<1 <1	<1 <1	0.00	0.00	99 99	1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Ghana	2015 2020	27 849 31 073	54	19 24	49 47	13 11	19 18	0.81	-0.19	13 17	37 35	19 16	32 32	0.72	-0.01	24 28	59 56	9	8	0.77	-0.06
Gibraltar	2015 2020	34	100 100	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Greece	2015 2020	10 660 10 423	78	99 99	1	<1 <1	<1 <1	0.07	-0.04	98 98	2 2	<1 <1	<1 <1	0.17	-0.10	>99 >99	<1 <1	<1 <1	<1 <1	0.03	-0.01
Greenland	2015 2020	56 57	86 87	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Grenada	2015 2017	110 111	36 36	91 91	2 2	3 3	4 4			-	-	-	-	-	-	-	-	-	-	-	-
Guadeloupe	2015 2020	400 400	98	99 >99	<1 <1	1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guam	2015 2016	162 163	95	90 90	9	<1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	2015 2020	16 252 17 916	50	67 68	9 11	19 19	5	0.31	-0.58	54 56	8 11	30 30	8 3	0.47	-0.93	80 79	10 11	8 9	2 <1	-0.06	-0.14
Guinea	2020 2015 2020	11 432 13 133	35	24 30	25 28	36 30	16 12	1.05	-0.79	16 21	15 18	46 43	23 18	0.87	-1.06	38 46	43 45	, 17 8	1	1.21	-0.04
Guinea-Bissau	2015 2020	1 737 1 968	42	14 18	11 14	58 58	16 10	0.65	-1.30	4	2	67 74	27 18	0.22	-1.83	29 35	24 28	45 37	1	1.08	-0.17
Guyana	2020 2015 2020	767	26	85 86	10 10	4	<1 <1	0.35	-0.03	83 84	11 12	4	<1 <1	0.36	-0.04	91 92	7	2	<1 <1	0.35	-0.04
Haiti	2020 2015 2020	10 696 11 403	52	33 37	26 28	20 16	22 18	1.02	-0.95	22 25	15 17	27 26	36 31	0.74	-1.02	42 46	37 37	13 9	9	0.91	-0.11
	2020	11 403	57	37	28	16	18	1.02	0.70	25	17	26	31	0.74	1.02	46	37	9	8	0.71	0.11

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COUNTRY,		o us sani	Propo f pop ing in tation ludin	ulatio nprov n faci	on /ed lities	of µ usin sanita	roporti popula g impr tion fa ding sl	tion oved cilities	of usi sanit	f pop ing in tatior	ortior ulatio nprov n facil g sha	on ved lities	ا of usin sanita	roportic populat ng impro ation fac uding sh	ion oved cilities	of usi sanit	Propo pop ng in tatior ludin	ulatio nprov n faci	on ved lities	of p usin sanita	roportio populat g impro tion fa ding sh	tion oved cilitie
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Ethiopia	2015 2020	6 7	5 6	<1 <1	<1 <1	12 14	2	<1 <1	3 4	3 4	<1 <1	<1 <1	6 8	<1 <1	<1 <1	15 16	14 15	<1 <1	<1 <1	38 40	8 10	3 3
Faeroe Islands	2020 2015 2020	-	<1 -	-	-	<1	91 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falkland Islands (Malvinas)	2015 2020	-	-	-	-	<1 <1	-	>99 >99	-	-	-	-	<1 <1	-	>99 >99	-	-	-	-	<1 <1	-	>99 >99
Fiji	2015 2020	-	-	-	-	15 16	63 63	20 21	-	-	-	-	27 31	68 68	1 1	-	-	-	-	5 6	59 59	35 35
Finland	2015 2020	84 84	<1 <1	<1 <1	84 84	<1 <1	16 15	84 85	-	-	-	-	-	-	-	-	-	-	-	-	-	-
France	2015 2020	79 79	<1 <1	<1 <1	79 79	<1 <1	18 18	82 82	-	-	-	-	-	-	-	-	-	-	-	-	-	-
French Guiana	2015 2020	-	•	-	-	9 8	39 38	44 46	-	-	-	-	-	-	-	-	-	-	-	-	-	-
French Polynesia	2015 2020	-	-	-	-	<1 <1	79 78	19 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	2015 2020	-		-	-	43 45	-	33 34	-	-	-	-	46 46	-	9 9	-	-	-	-	43 45	-	37 37
Gambia	2015 2020	32 29	31 28	<1 <1	<1 <1	45 36	19 23	2 2	33 24	33 24	<1 <1	<1 <1	44 32	2 2	<1 <1	31 32	30 31	<1 <1	1 1	45 38	30 35	4 3
Georgia	2015 2020	37 34	22 17	<1 <1	15 17	32 24	2 2	54 61	48 44	45 42	<1 <1	2 2	65 60	4 4	8 8	30 28	4 <1	<1 <1	25 28	7 <1	1 <1	89 96
Germany	2015 2020	97 97	1 1	1 1	95 95	<1 <1	3 3	96 96	91 92	5 5	5 5	82 82	3 3	14 14	83 83	98 99	<1 <1	<1 <1	98 99	<1 <1	<1 <1	>99 >99
Ghana	2015 2020	11 13	10 13	<1 <1	<1 <1	49 48	15 20	4 3	11 15	11 15	<1 <1	<1 <1	47 49	2 3	<1 <1	11 12	10 11	<1 <1	<1 <1	51 48	26 32	6 5
Gibraltar	2015 2020	-	-	-	-	<1 <1	-	>99 >99	-	-	-	-	-	-	-	-	-	-	-	<1 <1	-	>99 >99
Greece	2015 2020	88 92	6 4	6 4	77 85	<1 <1	23 15	77 85	-	-	-	34 42	<1 <1	65 57	35 43	94 97	3 <1	3 <1	89 95	<1 <1	10 4	90 96
Greenland	2015 2020	91 92	<1 <1	<1 <1	91 92	<1 <1	9 8	91 92	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grenada	2015 2017	-	-	-	-	28 28	59 59	7 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guadeloupe	2015 2020	-	-	-	-	13 11	47 49	39 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guam	2015 2016	-	-	-	-	2 2	26 26	71 71	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	2015 2020	-	-	-	-	26 25	9 10	42 44	-	-	-	-	38 39	10 12	14 16	-	-	-	-	14 13	7 7	69 70
Guinea	2015 2020	-	-	-	-	38 44	9 12	2 2	-	-	-	-	28 35	2 3	<1 <1	-	-	-	-	56 58	21 28	4 5
Guinea-Bissau	2015 2020	10 12	9 12	<1 <1	<1 <1	11 14	13 16	2 1	3 4	3 4	<1 <1	<1 <1	4 5	2 3	<1 <1	18 22	17 22	<1 <1	1 <1	22 26	27 34	4 2
Guyana	2015 2020	-	-	-	-	29 27	64 66	2 2	-	-	-	-	36 34	59 61	<1 <1	-	-	-	-	10 9	79 81	8 8
Haiti	2015 2020	-	-	-	-	46 48	12 17	<1 <1	-	-	-	-	35 40	2 3	<1 <1	-	-	-	-	56 55	21 27	1 <1

COUNTRY,		iousands)	u			NAT	ION	AL				RU	JRAL					UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Honduras	2015 2020	9 113 9 905	55 58	79 84	9 9	5 3	8 4	1.04	-0.77	73 80	7 8	6 4	14 8	1.39	-1.22	84 86	10 10	4 2	2	0.52	-0.14
Hungary	2015	9 778	71	98	2	<1	<1	-0.00	0.00	99	1	<1	<1	0.00	0.00	98	2	<1	<1	0.00	0.00
	2020 2015	9 660 330	72 94	98 99	2 1	<1 <1	<1 <1			99 >99	1 <1	<1 <1	<1 <1			98 99	2 1	<1 <1	<1 <1		
Iceland	2020	341	94	99	1	<1	<1	-0.00	0.00	>99	<1	<1	<1	0.00	0.00	99	1	<1	<1	0.00	0.00
India	2015 2020	1 310 152 1 380 004	33 35	57 71	11 12	3 2	29 15	2.81	-2.96	50 67	7 8	3 2	40 22	3.24	-3.49	71 79	19 19	2 <1	7 <1	1.54	-1.29
Indonesia	2015	258 383	53	74	10	4	12	2 12	-1.32	63	10	7	20	2.83	-1.73	83	10	2	5	1.65	-0.60
	2020	273 524 78 492	57	86	6	1	6 <1	2.72	1.02	80 78	7	2	11	2.00	1.75	92	6 7	<1	2 <1	1.00	0.00
Iran (Islamic Republic of)	2015 2020	78 492 83 993		88 90	10 10	1 <1	-	0.61	-	82	17 18	4 <1	1	1.07	-	92 93	7	<1 <1	<1	0.26	-0.00
Iraq	2015		70	93	4	3	<1	1.50	-0.24	88	3	8	<1	2.32	-0.73	95	4	1	<1	1.13	-0.01
	2020 2015	40 223 4 652	71 63	>99 91	<1 7	<1 2	<1 <1			>99 94	<1 5	<1	<1 <1			>99 89	<1 8	<1 2	<1 <1		
Ireland	2020	4 938	64	91	7	2	<1	0.09	0.00	94	5	<1	<1	0.14	0.00	90	8	2	<1	0.07	0.00
Israel	2015 2020	7 978 8 656	92 93	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	-0.03	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Italy	2020	60 578	70	>99	<1	<1	<1	0.00	0.00	>99	<1	<1	<1	0.00	0.00	>99	<1	<1	<1	0.00	0.00
Italy	2020	60 462	71	>99	<1	<1	<1	-0.00	0.00	>99	<1	<1	<1	0.00	0.00	>99	<1	<1	<1	0.00	0.00
Jamaica	2015 2020	2 891 2 961	55 56	86 87	13 12	<1 <1	<1 <1	0.19	-0.00	89 91	10 8	<1 <1	<1 <1	0.46	-0.03	83 83	15 15	<1 <1	<1 <1	-0.02	0.02
Japan	2015	127 985	91	>99	<1	<1	<1	-0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
oupun	2020 2015	126 476 9 267	92 90	>99 97	<1 2	<1 <1	<1 <1	0.00	0.00	- 96	- 2	-	- <1			- 98	-	- <1	- <1		
Jordan	2015	10 203		97	2	1	<1	-0.08	-0.01	90 95	2	2	<1	-0.16	-0.03	90 97	2	1	<1	-0.07	0.00
Kazakhstan	2015	17 572		98	2	<1	<1	0.05	-0.00	99	<1	<1	<1	0.10	-0.00	97	3	<1	<1	0.02	0.00
	2020 2015	18 777 47 878		98 32	2 23	<1 34	<1 11			>99 31	<1 15	<1 40	<1 14			97 36	3 45	<1 18	<1 2		
Kenya	2020	53 771		33	25	33	9	0.11	-0.46	32	17	41	11	0.10	-0.51	36	48	15	1	0.03	-0.09
Kiribati	2015	111		43	13	10	34	0.67	-0.72	35 39	5 6	11	49	0.90	-0.40	51	20	9	20	0.19	-0.69
	2020 2015	119 3 836		46 >99	17 <1	8 <1	30 <1			-	-	8	47 -			51 -	25	8	16 -		
Kuwait	2020	4 271	100	>99	<1	<1	<1	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Kyrgyzstan	2015 2020	5 959 6 524		97 98	3 2	<1 <1	<1 <1	0.28	-0.01	99 >99	<1 <1	<1 <1	<1 <1	0.36	-0.00	94 95	5 5	<1 <1	<1 <1	0.15	-0.01
Lao People's	2015	6 741	33	70	2	3	25	2.54	-2.25	58	2	4	36	2 50	-2.35	93	2	1	4	1.55	-1.06
Democratic Republic	2020	7 276		79	3	1	16	2.00	-2.25	69	3	2	26	2.37	-2.55	98	2	<1	<1	1.55	-1.00
Latvia	2015 2020	1 998 1 886	68 68	92 92	2 2	6 5	<1 <1	0.24	0.00	83 84	1 1	16 15	<1 <1	0.58	0.00	96 96	3 3	2 1	<1 <1	0.08	0.00
Lebanon	2015	6 533	88	94	<1	5	<1	1.11	-0.00	-	-	-	-	-	_	-	-	-	-	-	
	2020 2015	6 825 2 059		>99 41	<1 16	<1 15	<1 28			- 40	- 8	- 16	- 36			- 41	- 39	- 14	- 6		
Lesotho	2015	2 0 5 9		50	21	7	20	2.11	-1.27	40 52	o 11	9	29	2.34	-1.37	47	46	2	5	1.30	-0.25
Liberia	2015	4 472		17	27	15	41	0.25	-0.86	6	18	14	63	0.12	-0.86	28	35	16	20	0.22	-0.50
	2020 2015	5 058 6 418		18 92	29 7	15 <1	38 <1			6 -	19 -	16 -	59 -			29 -	39 -	-	18 -		
Libya	2020	6 871		92	7	<1	<1	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-

				Ν	IATI	ONAL	-					RU	RAL						URE	BAN		
COUNTRY,	L	of usi sanit	Propo f pop ing in tatior ludin	ulation prov n faci	on /ed lities	ا of usin sanita	roporti popula Ig impr Ition fa Iding sl	tion oved cilities	of usi sanit	f pop ing in tatior	ortior ulatio nprov n faci g sha	on ved lities	of p usin sanita	oportic populat g impro tion fac ding sh	ion oved cilities	of usi sanit	Propo f pop ing in tatior ludin	ulatio nprov n faci	on ved lities	ا of usin sanita	roportion populating impro- ntion fa- nding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Honduras	2015 2020	48 50	33 34	2 2	13 14	26 25	24 27	38 41	64 71	62 69	<1 <1	2 2	44 48	31 34	5 6	34 35	9 9	3 3	22 23	11 9	19 21	65 67
Hungary	2020 2015 2020	85 88	6 4	6	74 80	25 2 <1	27 20 16	78 84	77 81	11 9	11	2 54 63	40 3 <1	42 36	56 64	88 91	3	3	82 86	9 1 <1	21 11 8	88 92
Iceland	2020	00 74	4 <1	4 <1	80 74	<1	7	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-
locialità	2020 2015	84 36	<1 33	<1 <1	84 3	<1 27	6 30	94 11	- 37	- 37	- <1	- <1	- 34	- 23	- <1	- 33	- 24	- <1	- 9	- 13	- 46	- 31
India	2020	46	42	<1	4	35	36	13	51	50	<1	<1	46	28	1	37	27	<1	11	13	51	34
Indonesia	2015 2020	-	-	-	-	4 5	68 76	11 11	-	-	-	-	3 6	56 67	14 14	-	-	-	-	5 5	78 83	10 10
Iran (Islamic	2015	-	-	-	24	68	1	28	-	-	-	1	92	1	1	-	-	-	32	60	1	38
Republic of)	2020 2015	- 41	- 25	- <1	30 16	63 13	1 55	36 28	- 43	- 40	- <1	<1 4	99 18	1 67	<1 6	- 40	- 19	- <1	40 21	51 11	1 50	47 37
Iraq	2015	41	25 25	<1	10 18	8	55 62	28 30	43 44	40 39	<1	4 5	10	82	o 8	40 42	19	<1	21 24	7	50 54	37
Ireland	2015	79	20	1	58	6	26	66	71	51	<1	20	10	67	22	84	2	2	80	3	2	92
	2020 2015	83 91	20 <1	1 <1	61 91	7 </td <td>25 &lt;1</td> <td>67 &gt;99</td> <td>73 89</td> <td>52 1</td> <td>&lt;1 1</td> <td>21 87</td> <td>12 &lt;1</td> <td>65 5</td> <td>22 95</td> <td>89 91</td> <td>2 &lt;1</td> <td>2 &lt;1</td> <td>84 91</td> <td>4 &lt;1</td> <td>2 &lt;1</td> <td>92 &gt;99</td>	25 <1	67 >99	73 89	52 1	<1 1	21 87	12 <1	65 5	22 95	89 91	2 <1	2 <1	84 91	4 <1	2 <1	92 >99
Israel	2020	95	<1	<1	95	<1	<1	>99	93	1	1	91	<1	4	95	95	<1	<1	95	<1	<1	>99
Italy	2015 2020	96 96	<1 <1	<1 <1	94 94	<1 <1	3 3	97 97	94 94	2 2	2 2	91 91	<1 <1	6 6	94 94	96 96	<1 <1	<1 <1	95 95	<1 <1	2 2	98 98
Jamaica	2015	-	-	-	7	52	25	22	-	-	-	2	74	19	6	-	-	-	12	34	29	35
Jamaica	2020	-	-	-	8	51	25	23	-	-	-	2	74	19	6	-	-	-	12	34	29	36
Japan	2015 2020	79 81	<1 <1	5 2	74 79	6 2	20 18	74 79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jordan	2015	81	9	9	64	1	33	65	-	-	-	14	2	82	14	84	7	7	69	1	28	70
	2020 2015	82 -	8	8	66 36	2 54	30 8	67 38	-	-	-	20 3	3 89	74 7	21 3	84 91	7 15	7 15	70 61	2 27	26 8	71 64
Kazakhstan	2020	-	-	-	36	54	9	37	-	-	-	2	90	7	2	91	15	15	60	27	10	63
Kenya	2015 2020	-	-	-	-	45 47	4 5	6 6	29 29	29 29	<1 <1	<1 <1	45 47	<1 1	<1 <1	-	-	-	-	46 48	12 16	23 20
Visibati	2020	25	21	<1	4	15	30	11	24	23	<1	<1	20	18	2	26	19	<1	7	11	41	19
Kiribati	2020	27	23	<1	4	18	33	11	27	27	<1	<1	24	21	<1	26	19	<1	7	13	43	20
Kuwait	2015 2020		<1 <1	<1 <1	>99 >99	<1 <1	-	>99 >99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kyrgyzstan	2015	91	77	<1	15	83	<1	16	96	95	<1	1	98	<1	1	84	45	<1	39	55	2	43
Lao People's	2020 2015	92 54	78 54	<1 <1	15 <1	84 53	<1 17	16 1	96 51	96 50	<1 <1	<1 <1	>99 51	<1 9	<1 <1	86 61	46 60	<1 <1	39 1	57 59	1 34	42 2
Democratic Republic	2020	61	61	<1	<1	60	21	1	60	60	<1	<1	60	11	<1	63	62	<1	<1	60	38	2
Latvia	2015 2020	72 83	<1 <1	<1 <1	72 83	<1 <1	17 9	77 85	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lebanon	2020 2015 2020	15 16	4	<1 <1	11 11	8	7 13 13	74 78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lesotho	2020	38	38	<1	<1	55	1	1	40	40	<1	<1	48	<1	<1	34	33	<1	<1	73	3	4
2000110	2020	48	47	<1	<1	69	1	1	51	51	<1	<1	62 21	<1	<1	39	39	<1	<1	87	3	4
Liberia	2015 2020	-	-	-	-	23 23	19 24	1 <1	-	-	-	-	21 22	2 3	<1 <1	-	-	-	-	25 24	37 43	2 <1
Libya	2015	22	10	2	10	22	8	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2020	22	10	2	10	22	8	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

COUNTRY,		nousands)	an			NAT	ION	AL				RU	JRAL					UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Liechtenstein	2015 2020	37 38	14 14	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	2015 2020	2 932 2 722	67 68	92 94	2	6 4	<1 <1	0.48	0.00	83 86	2 2	15 11	<1 <1	0.99	0.00	97 98	2 2	1 <1	<1 <1	0.22	0.00
Luxembourg	2015 2020	567 626	90 91	98 98	2 2	<1 <1	<1 <1	-0.01	0.00	99 99	1 1	<1 <1	<1 <1	-0.00	0.00	97 97	2 2	<1 <1	<1 <1	-0.00	0.00
Madagascar	2015 2020	24 234 27 691	35 39	10 12	16 20	32 25	42 42	0.41	0.16	7 8	11 14	30 24	52 54	0.31	0.35	16 19	26 31	35 27	22 24	0.45	0.30
Malawi	2015 2020	16 745 19 130	16 17	25 27	13 13	55 55	7 4	0.27	-0.53	24 25	10 11	58 59	8 5	0.28	-0.61	34 34	25 26	39 39	2 1	0.13	-0.06
Malaysia	2015 2020	30 271 32 366	74 77	>99 -	<1 -	<1 -	<1 -	-	-	99 -	<1 -	<1 -	1	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.08	-0.02
Maldives	2015 2020	455 541	39 41	94 >99	<1 <1	5 <1	<1 <1	1.22	-0.74	91 99	<1 <1	8 <1	<1 <1	1.53	-1.03	99 >99	1 <1	<1 <1	<1 <1	0.36	-0.00
Mali	2015 2020	17 439 20 251	40 44	37 45	18 17	37 32	9 5	1.48	-0.81	29 37	9 7	50 47	13 9	1.46	-0.96	50 56	31 30	17 14	1 <1	1.05	-0.20
Malta	2015 2020	434 442	94 95	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Marshall Islands	2015 2020	57 59	76 78	83 84	6 6	1 <1	10 10	-	-	59 59	7 7	3 3	32 32	-	-	91 91	5 5	<1 <1	3 3	-	-
Martinique	2015 2020	378 375	89 89	99 >99	<1 <1	1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mauritania	2015 2020	4 046 4 650	51 55	43 50	9 8	13 12	35 31	1.62	-1.22	17 19	6 6	16 16	61 58	0.60	-0.90	68 75	11 9	11 8	10 8	2.02	-0.61
Mauritius	2015 2020	1 259 1 272	41 41	96 -	4	<1 -	<1 -	-	-	95 -	4	<1 -	<1 -	-	-	96 96	4 4	<1 <1	<1 <1	0.19	-0.00
Mayotte	2015 2020	240 273		89 >99	<1 <1	11 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	2015 2020	121 858 128 933	79 81	89 92	7 7	2 <1	2 <1	0.77	-0.47	78 86	8 10	6 3	7 <1	1.60	-1.30	92 94	6 6	<1 <1	1 <1	0.45	-0.19
Micronesia (Federated States of)	2015 2019	109 114	22 23	88 88	<1 <1	12 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monaco	2015 2020		100 100	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Mongolia	2015 2020	2 998 3 278	68 69	62 68	25 21	4 3	10 8	1.14	-0.47	43 51	22 19	7 5	29 25	1.29	-0.71	71 76	26 22	2 2	<1 <1	0.77	-0.03
Montenegro	2015 2020	627 628	66 67	96 98	1 <1	3 2	<1 <1	-	-	92 94	<1 <1	7 6	<1 <1	-	-	98 >99	1 <1	1 <1	<1 <1	-	-
Montserrat	2015 2020	5 5	9 9	87 89	10 11	1 <1	1 <1	0.38	-0.19	-	-	-	-	-	-	-	-	-	-	-	-
Morocco	2015 2020	34 664 36 911	61 64	83 87	4 2	7 9	7 2	0.97	-1.06	66 71	2 <1	16 23	16 5	1.12	-2.11	93 96	5 2	2 2	<1 <1	0.61	-0.09
Mozambique	2015 2020	27 042 31 255	34	29 37	5	36 37	30 21	1.40	-1.95	17 23	2	40 45	41 30	1.11	-2.20	53 61	9 11	27 23	10 5	1.59	-1.01
Myanmar	2015 2020	52 681 54 410	30	71 74	11 12	10 8	8	0.51	-0.16	68 71	10 10	12 9	11 10	0.67	-0.18	80 79	13 15	6 5	<1 <1	0.01	-0.03
Namibia	2015 2020	2 315 2 541	47	34 35	12 12 13	5 5	49 47	0.36	-0.46	18 20	4	6	72 71	0.33	-0.29	52 50	21 21	4	23 25	-0.49	0.56

				N	IATI	ONAL	_					RUI	RAL						URE	BAN		
COUNTRY,		of usi sanit	f pop ing in tatior	ortion ulation nprov n faci ng sha	on /ed lities	) of usin sanita	roporti populat ng impro ation fa uding sh	tion oved cilities	of usi sanit	f pop ing in tatior	ortior ulatic nprov n facil g sha	on ved lities	of p usin sanita	roportic populat og impro ation fac iding sh	ion oved cilities	of usi sanit	Propo pop ing in tatior ludin	ulatio nprov n faci	on /ed lities	of ן usin sanita	oportio oopulat g impro tion fa ding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Liechtenstein	2015 2020	99 99	<1 <1	<1 <1	99 99	<1 <1	1	99 99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	2015 2020	91 94	<1 1	<1 1	89 91	2	-	93 93	82 86	2 4	2 4	77 78	5 8	-	81 81	95 98	<1 <1	<1 <1	95 98	<1 <1	-	99 >99
Luxembourg	2015 2020	96 97	<1 <1	<1 <1	95 96	<1 <1	2 2	98 98	88 89	5 5	5 5	79 80	<1 <1	19 19	81 81	96 97	<1 <1	<1 <1	96 97	<1 <1	<1 <1	>99 >99
Madagascar	2015 2020	9 10	9 10	<1 <1	<1 <1	21 25	5 6	<1 1	7 8	7 8	<1 <1	<1 <1	16 20	1 1	<1 <1	13 14	12 14	<1 <1	<1 <1	29 33	12 14	2 2
Malawi	2015 2020	23 24	22 24	<1 <1	<1 <1	34 36	3 3	2 2	22 24	22 23	<1 <1	<1 <1	32 35	<1 <1	<1 <1	27 27	25 25	<1 <1	2 2	40 39	13 14	6 7
Malaysia	2015 2020	73 -	<1 -	<1	73	<1	23	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maldives	2015 2020	-	-	-	-	3 1	34 33	59 66	-	-	-	-	4 2	55 55	33 42	-	-	-	-	<1 <1	<1 <1	>99 >99
Mali	2015 2020	16 20	16 20	<1 <1	<1 <1	50 58	3 4	2 1	21 28	21 28	<1 <1	<1 <1	36 44	<1 <1	<1 <1	9 10	8 9	<1 <1	1 <1	70 75	7 8	4 3
Malta	2015 2020	92 92	<1 <1	<1 <1	92 92	<1 <1	2	98 98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marshall Islands	2015 2020	-	-	-	-	5	43 51	41 38	-	-	-	-	13 3	50 59	2 3	-	-	-	-	3 <1	40 48	53 48
Martinique	2015 2020	-	-	-	-	2 1	51 52	45 46	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mauritania	2015 2020	-	-	-	-	36 40	14 15	2 3	-	-	-	-	20 22	4 4	<1 <1	-	-	-	-	51 55	24 24	5 5
Mauritius	2015 2020	-	-	-	16 -	69 -	7	23	-	-	-	4	85 -	9 -	5	-	-	-	35 34	47 47	4 4	49 49
Mayotte	2015 2020	-	-	-	-	18 7	35 35	35 58	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	2015 2020	45 57	5 5	3 3	38 50	3 2	15 16	77 81	-	-	-	16 22	12 11	41 47	34 38	47 60	2 2	1 1	44 56	<1 <1	9 8	89 91
Micronesia (Federated States of)	2015 2019	-	-	-	-	37 37	38 38	13 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monaco	2015 2020		<1 <1	<1 <1	>99 >99	<1 <1	-	>99 >99	-	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	>99 >99	<1 <1	-	>99 >99
Mongolia	2015 2020	49 56	42 46	<1 <1	7 10	61 64	<1 <1	25 25	41 49	40 47	<1 <1	<1 2	61 66	<1 <1	4 4	52 59	42 45	<1 <1	10 13	62 63	<1 <1	35 34
Montenegro	2015 2020	41 45	19 20	1 2	20 24	2 <1	47 52	48 45	38 39	29 30	<1 <1	9 9	5 2	68 75	20 17	42 49	14 15	2 3	26 31	1 <1	36 42	62 58
Montserrat	2015 2020	-	-	-	-	<1 <1	78 80	19 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morocco	2015 2020	38 39	11 10	5 4	22 24	14 12	18 18	55 59	-	-	-	<1 <1	29 28	35 39	5 6	40 41	3 3	1 1	36 37	4 3	6 6	88 89
Mozambique	2015 2020	-	-	-	-	25 31	7 10	1	15 21	15 21	<1 <1	<1 <1	18 24	<1	<1 <1	-	-	-	-	40 44	19 25	4
Myanmar	2015 2020	61 61	60 60	<1 <1	<1 <1	65 62	16 22	1 <1	63 64	62 64	<1 <1	<1 <1	69 68	8 13	<1 <1	57 53	56 52	<1 <1	1 <1	56 49	34 42	3 2
Namibia	2015 2020	-	-	-	-	10 11	2	33 35	-	-	-	-	13 15	2	7	-	-	-	-	7	2	63 62

COUNTRY,		nousands)	an			NAT	ION	AL				RU	IRAL					UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Nauru	2015 2017		100 100	66 66	31 31	1	3 3	-	-	-	-	-	-	-	-	66 66	31 31	1 1	3 3	-	-
Nepal	2017 2015 2020	27 015 29 137	19	59 77	14 11	4	24 10	3.13	-2.97	57 77	11 9	4	28 11	3.27	-3.28	64 76	26 19	2 <1	8	2.22	-0.78
Netherlands	2015 2020	16 938 17 135	90 92	98 98	2 2	<1 <1	<1 <1	-0.02	0.00	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	98 98	3 3	<1 <1	<1 <1	0.00	0.00
New Caledonia	2015 2020	271 285	69 72	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	2015 2020	4 615 4 822	86 87	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Nicaragua	2015 2020	6 223 6 625		72 73	7 7	14 13	7 7	0.80	-0.45	60 61	5 6	19 19	16 15	0.92	-0.79	81 81	8 8	10 9	2 1	0.63	-0.13
Niger	2015 2020	20 002 24 207		13 15	8 10	8 7	72 68	0.47	-0.69	7 7	4 6	6 7	83 79	0.28	-0.70	44 52	28 30	14 7	14 11	1.42	-0.51
Nigeria	2015 2020	181 137 206 140		38 43	21 20	20 19	21 19	0.70	-0.39	32 33	10 8	28 29	31 30	0.25	-0.19	46 52	33 30	12 10	10 8	1.10	-0.25
Niue	2015 2020	2 2		97 96	<1 <1	3 4	<1 <1	-0.22	0.00	-	-	-	-	-	-	-	-	-	-	-	-
North Macedonia	2015 2020	2 079 2 083	57 58	95 98	2 <1	2 <1	<1 <1	0.49	-0.01	92 97	3 1	5 2	<1 <1	0.75	-0.03	98 >99	2 <1	<1 <1	<1 <1	0.30	0.00
Northern Mariana Islands	2015 2020	56 58		78 79	19 19	3 2	<1 <1	0.19	-0.00	-	-	-	-	-	-	-	-	-	-	-	-
Norway	2015 2020	5 200 5 421		98 98	2 2	<1 <1	<1 <1	-0.00	0.00	98 98	2 2	<1 <1	<1 <1	0.00	0.00	98 98	2 2	<1 <1	<1 <1	0.00	0.00
occupied Palestinian territory*	2015 2020	4 529 5 101	75 77	96 99	3 1	<1 <1	<1 <1	0.41	-0.03	95 98	4 <1	<1 <1	<1 <1	0.54	-0.04	97 99	3 1	<1 <1	<1 <1	0.36	-0.02
Oman	2015 2020	4 267 5 107		>99 >99	<1 <1	<1 <1	<1 <1	0.51	-	>99 >99	<1 <1	<1 <1	<1 <1	1.05	-	>99 >99	<1 <1	<1 <1	<1 <1	0.29	-0.02
Pakistan	2015 2020	199 427 220 892		59 68	9 11	17 14	15 7	1.94	-1.56	49 60	10 13	19 15	22 12	2.36	-2.16	77 82	7 6	15 11	1 <1	0.94	-0.26
Palau	2015 2020		78 81	99 >99	<1 <1	1 <1	<1 <1	0.41	0.00	97 99	<1 <1	3 1	<1 <1	0.93	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.18	0.00
Panama	2015 2020	3 968 4 315		79 85	4 3	12 9	5 4	1.11	-0.17	60 65	4 4	22 19	14 12	1.04	-0.26	88 93	5 2	7 4	<1 <1	1.01	-0.06
Papua New Guinea	2015 2020	8 108 8 947		19 19	4 4	62 60	15 16	0.05	0.17	14 15	3 4	66 64	17 18	0.12	0.19	52 49	9 9	36 38	4 4	-0.43	0.01
Paraguay	2015 2020	6 689 7 133		88 93	3 3	8 3	<1 <1	1.12	-0.03	79 88	2 2	18 8	1 <1	1.82	-0.02	93 95	4 4	2 <1	<1 <1	0.50	-0.03
Peru	2015 2020	30 471 32 972		75 79	9 9	9 8	8 4	0.77	-0.71	53 60	4 5	21 22	22 13	1.54	-1.84	82 84	10 10	5 4	3 2	0.40	-0.25
Philippines	2015 2020	102 113 109 581		75 82	15 11	4 3	6 4	1.06	-0.36	72 82	14 9	5 4	8 5	1.49	-0.53	79 82	16 14	2 2	3 2	0.56	-0.17
Poland	2015 2020	38 034 37 847		99 >99	<1 <1	1 <1	<1 <1	0.57	0.00	98 >99	<1 <1	2 <1	<1 <1	1.11	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.24	0.00
Portugal	2015 2020	10 368 10 197		>99 >99	<1 <1	<1 <1	<1 <1	0.11	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.19	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.05	0.00
Puerto Rico	2015 2020	3 382 2 861		>99 >99	<1 <1	<1 <1	<1 <1	0.12	0.00	-	-	-	-	-	-	-	-	-	-	-	-

NATIONAL Proportion Proportion P of population of population of p using improved using improved using sanitation facilities sanitation facilities sanitation (excluding shared) (including shared) (excluding COUNTRY, Year AREA OR TERRITORY tic tanks Safely Sept Latr Š 2015 -44 29 23 Nauru 2017 -- - - 44 29 23 2015 **37** 35 <1 2 23 45 5 **37** Nepal 2020 49 47 <1 2 29 54 5 50 2015 97 <1 <1 97 <1 <1 >99 97 Netherlands 2020 97 <1 <1 97 <1 <1 >99 97 2015 -New Caledonia 2020 -2015 **81** 2 1 78 3 13 84 New Zealand 2020 82 <1 <1 82 <1 15 85 2015 - - 19 45 10 24 Nicaragua 2020 - - 19 45 10 25 2015 14 14 <1 <1 16 4 <1 10 Niger 2020 16 16 <1 <1 19 5 <1 11 2015 28 25 <1 2 36 16 8 25 Nigeria 2020 **31** 28 <1 3 32 21 9 **26** 2015 - - - <1 96 Niue 2020 - - - <1 96 2015 12 6 <1 6 7 16 75 18 North Macedonia 2020 **12** 5 <1 7 7 11 81 18 2015 -- - - <1 45 52 Northern Mariana Islands 2020 -- - - <1 44 54 2015 64 <1 <1 62 2 15 83 Norway 2020 65 <1 <1 63 2 13 85 occupied Palestinian 2015 59 17 5 37 20 28 52 territory\* 2020 67 23 5 39 30 17 53 48 - - 20 2 77 2015 -20 Oman 2020 - - - 21 2 76 21 2015 -- - - 14 29 25 Pakistan 2020 -- - - 21 30 27 2015 - - - - <1 29 70 Palau 2020 - - - - <1 29 71 - - - 13 37 33 2015 -Panama 2020 -10 43 34 - - -2015 -3 13 5 5 Papua New Guinea 2020 - - 3 12 5 7 -2015 **57** 52 <1 5 40 42 9 63 Paraguay 2020 60 56 <1 4 43 45 8 71 2015 41 5 3 37 7 7 69 Peru 2020 53 5 4 50 9 5 74 2015 **55** 52 <1 3 13 72 58 6 Philippines 2020 61 58 <1 3 16 70 7 66 2015 89 9 18 62 <1 35 63 Poland 2020 **91** 9 18 64 <1 36 64 2015 **78** 10 10 58 6 30 64 Portugal 2020 85 10 10 65 6 29 65 2015 33 <1 <1 33 <1 - >99 Puerto Rico 2020 33 <1 <1 33 <1 ->99

\*Including east Jerusalem. UNICEF reports and the Global SDG Indicators Database refer to 'State of Palestine'.

		RUI	RAL						URE	BAN		
popu ig in ition	ortior ulatic nprov nfacil g sha	on red lities	of p usin sanita	oportio opulat g impro tion fao ding sh	ion oved cilities	of usi sanit	f pop ng in tatior	ortior ulatic nprov n facil g sha	on red lities	of p usin sanita	oportio opulat g impro tion fac ding sh	ion oved cilities
Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
-	-	-	-	-	-	-	-	-	-	44	29	23
37	- <1	- <1	- 24	43	- 2	- 35	- 28	- <1	-	44 17	29 54	23 19
49	<1	<1	31	53	2	42	35	<1	7	20	58	17
1	1	95	<1	5	95	97	<1	<1	97	<1	<1	>99
1	1	95	<1	5	95	97	<1	<1	97	<1	<1	>99
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	<1	61	3	<1	-	-	-	32	34	15	41
-	-	<1	62	4	<1	-	-	-	33	33	15	41
9	<1	<1	9	1	<1	38	37	<1	<1	52	16	3
11 22	<1	<1	12	1	<1	43	42 27	<1	<1	55 38	24	3
23 24	<1 <1	1 2	33 30	5 7	3 4	31 35	31	<1 <1	4 4	38 34	28 35	13 13
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
13	1	4	15	35	45	9	<1	<1	8	<1	2	97
12	1	4	17	27	54	8	<1	<1	8	<1	<1	>99
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
31	<1	5	37	51	10	66	12	7	47	14	20	66
43	<1	5	56	33	10	72	17	7	49	22	12	66
-	-	2 2	6 6	92 92	2 2	-	-	-	24 24	2 2	74 74	24 24
-	-	-	19	34	6	-	-	-	-	6	19	59
-	-	-	29	38	7	-	-	-	-	9	18	62
-	-	-	<1	56	41	-	-	-	-	<1	22	78
-	-	-	<1 26	56 35	43 4	-	-	-	-	<1 7	22 38	78 48
-	-	-	23	42	4	-	-	-	-	5	43	48
-	-	<1	12	3	2	29	10	5	14	14	17	29
-	-	1	11	4	3	28	7	4	17	13	10	35
62	<1	<1	54	27	<1	53	46	<1	7	31	51	15
71	<1	<1 9	62 10	28	<1	54 40	47	<1	6 45	31	55	14
-	_	9 14	19 23	22 22	16 20	49 64	2 2	1 2	45 60	4 5	3 <1	85 88
56	<1	2	19	63	4	51	48	<1	4	5	81	9
64	<1	2	22	64	4	55	51	<1	4	10	76	10
-	-	25	1	71	25	93	3	3	87	<1	11	88
-	-	28	<1	72	28	94	3	3	88	<1	11	88
-	-	28 31	9 9	59 59	31 31	85 93	5 5	5 5	75 82	4 4	14 14	82 82
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

COUNTRY,		nousands)	an			NAT	ION	AL				RU	IRAL	-				UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Qatar	2015 2020	2 566	99	>99	<1	<1	<1	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Korea	2020 2015 2020	2 881 50 823 51 269	99 82 81	>99 >99 >99	<1 <1 <1	<1 <1 <1	<1 <1 <1	-0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Moldova	2015 2020	4 071 4 034	42 43	76 79	11 11	13 10	<1 <1	0.24	0.01	69 73	10 10	21 17	<1 <1	0.54	0.01	86 87	12 12	2 <1	<1 <1	-0.11	0.00
Réunion	2015 2020	863 895	99 100	>99 >99	<1 <1	<1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	2015 2020	19 925 19 238	54 54	83 87	<1 <1	17 13	<1 <1	-	-	69 76	<1 <1	31 24	<1 <1	-	-	95 97	<1 <1	5 3	<1 <1	-	-
Russian Federation	2015 2020	144 985 145 934	74 75	88 89	<1 <1	12 11	<1 <1	0.25	0.00	69 72	<1 <1	31 28	<1 <1	0.67	0.00	95 95	<1 <1	5 5	<1 <1	0.08	0.00
Rwanda	2015 2020	11 369 12 952	17 17	64 69	13 15	20 14	2 2	1.17	-0.12	66 73	9 10	22 15	3 2	1.52	-0.14	53 50	34 39	11 10	1 1	-0.64	-0.01
Saint Barthelemy	2015 2020	10		>99 >99	<1 <1	<1 <1	<1 <1	0.05	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.05	0.00
Saint Helena	2015 2020	6	40 40	>99 >99	<1 <1	<1 <1	<1 <1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Kitts and Nevis	2015 2017	51 52	31 31	95 95	1 1	2 2	1 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Lucia	2015 2020	179 184	19 19	83 83	10 10	<1 <1	6 6	-0.08	-0.07	84 84	9 9	<1 <1	7 7	-0.06	0.02	77 79	18 18	1 <1	4 2	-0.21	-0.37
Saint Martin (French part)	2015 2020		100 100	>99 >99	<1 <1	<1 <1	<1 <1	0.05	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.05	0.00
Saint Pierre and Miquelon	2015 2020		90 90	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-		-		-	-		-	-		-
Saint Vincent and the Grenadines	2015 2018	109 110	52	87 87	3 3	6 6	3 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Samoa	2015 2020	194 198	18	96 97	3 3	<1 <1	<1 <1	0.11	0.01	97 97	2 2	<1 <1	<1 <1	0.13	0.01	95 95	4 4	<1 <1	<1 <1	0.04	0.00
San Marino	2015 2020	34	97 97	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Sao Tome and Principe	2015 2020	199 219	70 74	41 48	6 6	4 4	50 43	1.36	-1.41	31 39	5 4	3 3	60 54	1.28	-1.24	45 51	6 6	5 4	45 39	1.20	-1.25
Saudi Arabia	2015 2020	31 718 34 814		>99 >99	<1 <1	<1 <1	<1 <1	0.08	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Senegal	2015 2020	14 578 16 744		52 57	16 17	18 15	14 11	0.97	-0.66	40 46	9 9	27 24	25 20	1.25	-0.90	67 68	24 26	8 5	2 1	0.33	-0.12
Serbia	2015 2020	8 877 8 737		97 98	<1 <1	2 2	<1 <1	0.12	-0.00	95 96	<1 <1	4 4	<1 <1	0.07	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.16	-0.00
Seychelles	2015 2020	95 98		>99 >99	<1 <1	<1 <1	<1 <1	0.29	-0.07	-	-	-	-	-	-	-	-	-	-	-	-
Sierra Leone	2015 2020	7 172 7 977		15 17	34 38	32 29	19 16	0.31	-0.49	8 10	23 26	41 39	28 25	0.28	-0.60	24 25	50 54	20 15	5 5	0.22	-0.07
Singapore	2015 2020	5 592 5 850			<1 <1	<1 <1	<1 <1	0.00	0.00	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Sint Maarten (Dutch part)	2015 2017	40	100 100	99 99	<1 <1	1 1	<1 <1	-	-	-	-	-	-	-	-	99 99	<1 <1	1 1	<1 <1	-	-

				Ν	IATI	ONAL	-					RU	RAL						URE	BAN		
COUNTRY,		of usi sanit	Propo f pop ing in tatior ludin	ulatio nprov n faci	on /ed lities	of ן usin sanita	roporti populat g impr ition fa iding sh	tion oved cilities	of usi sanit	Propo popul ng in tatior ludin	ulatio nprov n facil	on ved lities	of p usin sanita	roportic populat g impro ition fac iding sh	ion oved cilities	of usi sanit	Propo f pop ing in tatior ludin	ulatio nprov n faci	on ved lities	of µ usin sanita	oportio oopulat g impro tion fac ding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Qatar	2015 2020	91 97	<1 <1	<1 <1	91 97	<1 <1	9 3	91 97	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Korea	2015 2020	95 >99	<1 <1	1 <1	93 >99	2 <1	5 <1	94 >99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Moldova	2015 2020	-	-	-	27 28	44 47	9 9	34 34	-	-		3 3	65 69	10 10	3 4	77 79	9 9	8 9	60 61	16 17	8 8	74 75
Réunion	2015 2020	-	-	-	-	3 3	48 45	48 51	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	2015 2020	73 83	18 15	15 15	40 53	35 31	2 1	46 55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Russian Federation	2015 2020	60 61	6 6	4 4	50 51	10 10	3 3	75 77	49 52	16 16	11 11	23 25	29 30	5 5	35 37	63 64	2 2	2 1	59 60	4 3	2 2	89 90
Rwanda	2015 2020	-	-	-	-	76 83	<1 <1	1 1	49 54	49 54	<1 <1	<1 <1	75 83	<1 <1	<1 <1	-	-	-	-	80 82	2 1	6 6
Saint Barthelemy	2015 2020	-	-	-	-	12 7	84 88	4 6	-	-	-	-	-	-	-	-	-	-	-	12 7	84 88	4 6
Saint Helena	2015 2020	-	-	-	-	<1 <1	48 48	52 52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Kitts and Nevis	2015 2017	-	-	-	-	2 2	87 87	7 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Lucia	2015 2020	-	-	-	-	7 7	82 82	5 5	-	-	-	-	8 8	82 82	4 4	-	-	-	-	2 5	82 82	11 11
Saint Martin (French part)	2015 2020	-	-	-	-	<1 <1	39 40	60 60	-	-	-	-	-	-	-	-	-	-	-	<1 <1	39 40	60 60
Saint Pierre and Miquelon	2015 2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Vincent and the Grenadines	2015 2018	-	-	-	-	16 16	67 67	7 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Samoa	2015 2020	48 48	48 48	<1 <1	<1 <1	11 10	88 89	<1 <1	50 50	50 50	<1 <1	<1 <1	13 11	86 88	<1 <1	37 37	37 36	<1 <1	<1 <1	5 3	94 96	<1 <1
San Marino	2015 2020	70 70	<1 <1	<1 <1	70 70	<1 <1	15 15	85 85	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sao Tome and Principe	2015 2020	29 35	24 27	<1 <1	6 8	24 29	9 7	13 17	24 30	20 25	<1 <1	4 6	22 26	5 4	10 13	31 36	25 28	<1 <1	6 8	26 30	11 8	14 19
Saudi Arabia	2015 2020	53 59	<1 <1	<1 <1	53 59	<1 <1	47 41	53 59	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Senegal	2015 2020	21 24	19 22	<1 <1	2 2	27 29	33 37	8 8	21 24	21 24	<1 <1	<1 <1	27 30	21 25	<1 <1	21 24	17 20	<1 <1	4 4	26 28	47 49	17 17
Serbia	2015 2020	19 18	11 10	<1 <1	8 8	4 1	38 39	56 57	22 20	20 17	<1 <1	3 3	8 <1	70 76	18 19	16 17	4 4	<1 <1	12 13	1 2	13 11	85 86
Seychelles	2015 2020	-	-	-	-	<1 <1	82 82	17 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra Leone	2015 2020	13 14	13 14	<1 <1	<1 <1	44 48	5 6	<1 <1	8 10	8 10	<1 <1	<1 <1	31 35	<1 <1	<1 <1	19 20	19 20	<1 <1	<1 <1	62 66	11 13	1 1
Singapore	2015 2020		<1 <1		>99 >99	<1 <1	-	>99 >99	-	-	-	-	-	-	-	>99 >99	<1 <1	<1 <1	>99 >99	<1 <1	-	>99 >99
Sint Maarten (Dutch part)	2015 2017	-	-	-	-	47 47	43 43	9 9	-	-	-	-	-	-	-	-	-	-	-	47 47	43 43	9 9

COUNTRY,		housands)	an			NAT	ION	AL				RU	JRAL					UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Slovakia	2015 2020	5 436 5 460	54 54	98 98	2 2	<1 <1	<1 <1	-0.11	0.00	96 96	4 4	<1 <1	<1 <1	-0.18	0.00	99 99	1	<1 <1	<1 <1	-0.06	0.00
Slovenia	2015 2020	2 071 2 079	54 55	98 98	<1 <1	1	<1 <1	0.01	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Solomon Islands	2015 2020	603 687	22 25	32 35	5 6	15 15	48 45	0.72	-0.82	19 21	2 2	19 19	60 58	0.40	-0.65	77 78	17 18	<1 <1	5 4	0.81 -	·0.21
Somalia	2015 2020	13 797 15 893		34 39	17 17	18 21	31 23	0.96	-1.78	19 25	10 9	19 24	52 42	0.88	-1.98	54 56	26 26	16 17	4 <1	0.50 -	0.56
South Africa	2015 2020	55 386 59 309	65 67	74 78	15 15	9 7	3 <1	0.99	-0.60	71 81	7 5	17 14	6 <1	1.95	-1.25	76 77	19 19	4 3	<1 <1	0.30 -	0.12
South Sudan	2015 2020	10 716 11 194	19 20	11 16	8 9	16 15	66 60	-	-	7 9	5 6	12 11	76 73	-	-	29 42	17 19	29 31	24 8	-	-
Spain	2015 2020	46 672 46 755	80 81	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Sri Lanka	2015 2020	20 908 21 413	18 19	91 94	5 4	3 2	<1 <1	0.85	-0.27	91 94	5 4	3 2	<1 <1	0.84	-0.29	90 93	7 4	4 3	<1 <1	0.88 -	-0.17
Sudan	2015 2020	38 903 43 849	34 35	35 37	8 8	30 31	27 24	0.82	-1.35	23 24	6 6	32 33	38 36	0.66	-1.39	58 60	12 12	26 26	4 2	0.98 -	·1.11
Suriname	2015 2020	559 587	66 66	86 90	8 6	3 3	3 1	0.60	-0.37	76 82	10 9	5 6	9 3	1.21	-1.11	92 94	6 5	1 1	<1 <1	0.29	0.00
Sweden	2015 2020	9 765 10 099	87 88	>99 >99	<1 <1	<1 <1	<1 <1	0.02	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.06	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.01	0.00
Switzerland	2015 2020	8 297 8 655	74 74	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.00	0.00
Syrian Arab Republic	2015 2020	17 997 17 501		90 90	9 10	<1 <1	<1 -	-0.04	-	89 90	9 10	<1 <1	1	0.22		91 90	8 10	<1 <1	<1 <1	-0.27	0.00
Tajikistan	2015 2020	8 454 9 538	28	95 97	3 3	1 <1	<1 <1	0.34	-0.06	96 98	2 2	1 <1	<1 <1	0.45	-0.07	94 94	5 5	1 1	<1 <1	0.06 -	0.04
Thailand	2015 2020	68 715 69 800	51	97 99	3 1	<1 <1	<1 <1	0.31	-0.06	97 98	2 2	<1 <1	<1 <1	0.23	-0.09	97 >99	3 <1	<1 <1	<1 <1	0.46 -	0.01
Timor-Leste	2015 2020	1 196 1 318	31	51 57	9 10	18 15	22 18	-	-	43 49	7 7	19 17	31 27	-	-	71 74	13 15	14 11	2 <1	-	-
Тодо	2015 2020	7 323 8 279		16 19	25 27	10 9	49 45	0.45	-0.70	7 8	10 10	12 12	71 70	0.27	-0.32	30 33	48 49	7 6	14 12	0.46 -	0.59
Tokelau	2015 2020	1		94 97	4 3	2 <1	<1 <1	1.00	-	94 97	4 3	2 <1	<1 <1	1.00	-	-	-	-	-	-	-
Tonga	2015 2020	101 106	23 23	93 93	3 6	4 1	<1 <1	0.19	-0.01	92 92	3 7	5 1	<1 <1	0.30	-0.01	97 95	2 4	<1 <1	<1 <1	-0.15 -	0.00
Trinidad and Tobago	2015 2020	1 370 1 399		94 94	6 6	<1 <1	<1 <1	0.19	-0.02	-	-	-	-	-	-	-	-	-	-	-	-
Tunisia	2015 2020	11 180 11 819	68 70	92 97	4 2	3 1	1 <1	1.05	-0.51	83 97	8 2	6 <1	4 <1	2.47	-1.35	96 98	2 1	2 1	<1 <1	0.22 -	0.03
Turkey	2015 2020	78 529 84 339		96 >99	<1 <1	3 <1	<1 <1	0.63	-0.02	90 97	2 1	8 <1	<1 <1	1.40	-0.04	99 >99	<1 <1	<1 <1	<1 <1	0.20 -	0.01
Turkmenistan	2015 2020	5 565 6 031		97 >99	2 <1	<1 <1	<1 <1	0.32	-0.03	99 >99	<1 <1	<1 <1	<1 <1	0.20	-0.04	96 >99	4 <1	<1 <1	<1 <1	0.48 -	0.01
Turks and Caicos Islands	2015 2018		92 93	88 88	<1 <1	10 10	2 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				Ν	IATI	ONAL	-					RU	RAL						URE	BAN		
COUNTRY,		of usi sanit	f pop ing in tatio	ortion ulation nprov n faci ng sha	on /ed lities	of usin sanita	roporti popula ng impr ation fa uding sl	tion oved cilities	of usi sanit	Propo f pop ing in tatior ludin	ulatio nprov n faci	on ved lities	of   usin sanita	roportic populat og impro ation fac uding sh	ion oved cilities	of usi sanit	Propo f pop ing in tatior ludin	ulatio nprov n faci	on ved lities	of   usin sanita	roportio populating impro- tion fa- iding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Slovakia	2015 2020	82 82	8 8	8 8	66 65	4 4	27 27	69 69	75 75	12 12	12 12	51 51	6 6	39 39	55 55	88 88	5 5	5 5	78 78	3 3	16 16	82 82
Slovenia	2015 2020	61 72	<1 <1	<1 <1	61 72	<1 <1	33 27	66 72		-	-	-	-	-	-		-	-	-	-	-	-
Solomon Islands	2015 2020	-	-	-	-	17 20	13 13	7 7	-	-	-	-	14 16	4 4	2 2	-	-	-	-	28 33	43 40	23 23
Somalia	2015 2020	27 32	25 29	<1 <1	2 2	41 46	3 4	7 6	16 21	16 20	<1 <1	<1 1	26 29	1 2	2 3	41 44	36 41	<1 <1	5 3	61 66	5 7	14 10
South Africa	2015 2020	-	-	-	-	29 30	3	57 61	-	-	-	-	68 77	4	5	-	-	-	-	8	2	85 88
South Sudan	2015 2020	-	-	-	-	18 23	<1 <1	<1 <1	-	-	-	-	12 15	<1 <1	<1 <1	-	-	-	-	44 57	1	1
Spain	2020 2015 2020	95	2	2	92	3	1	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sri Lanka	2015	96 -	2	2	92 -	4 90	1	95 3	-	-	-	-	93	2	-	-	-	-	-	79	6	11
Sudan	2020 2015	-	-	-	-	94 37	2 6	2 <1	-	-	-	-	97 28	1 <1	<1 <1	-	-	-	-	84 53	4 15	9 3
Suriname	2020 2015	- 27	- 26	<1	<1	38 9	6 84	1 2	- 36	- 36	<1	<1	30 18	<1 66	<1 1	- 22	- 21	<1	<1	53 4	16 93	3 2
Sweden	2020 2015	25 95	24 4	<1 4	1 87	3 <1	91 12	2 88	34 90	33 8	<1 8	<1 74	8 <1	81 25	2 74	21 95	19 3	<1 3	1 89	<1 <1	96 10	3 90
Switzerland	2020 2015	95 >99	4 <1	4 <1	87 98	<1 1	-	88 99	91 99	8 2	8 2	74 95	<1 3	25 2	75 95	96 >99	3 <1	3 <1	89 >99	<1 <1	10 -	90 >99
Syrian Arab	2020 2015	>99 -	<1 -	<1	>99	<1 17	- 7	>99 74	99 -	<1 -	<1 -	98	<1 31	2 14	98 52	>99 -	<1 -	<1	>99	<1 4	- 1	>99 95
Republic Tajikistan	2020 2015	-	-	-	-	17 80	7 2	76 15	- 58	- 58	-	-	33 94	14 3	52 <1	-	-	-	-	4 43	1 <1	95 55
Thailand	2020 2015	- 24	- 19	- <1	- 5	80 3	3 87	16 10	59 21	59 18	<1 <1	<1 3	95 4	4 89	<1 7	- 28	- 21	- <1	- 7	40 1	<1 84	58 14
Timor-Leste	2020 2015	26 -	19 -	<1	7	3 32	83 17	14 11	22 -	18 -	<1 -	4	5 32	87 10	8 8	30 -	20 -	<1	9	2 32	79 34	19 18
Togo	2020 2015	- 8	- 8	- <1	- <1	38 24	17 17	11 <1	- 6	- 6	- <1	- <1	38 14	10 3	8 <1	- 12	- 12	- <1	- <1	38 39	33 39	18 <1
-	2020 2015	9 -	9	<1	<1 -	23	- 22	<1	7 -	7	<1 -	<1 -	15 -	-	<1 -	12 -	12 -	<1 -	<1 -	34 -	47 -	<1 -
Tokelau	2020 2015	- 35	- 34	- <1	- <1	- 11	- 83	- 2	- 38	- 37	- <1	- <1	- 13	- 80	- 2	- 26	- 25	- <1	- <1	- 5	- 92	-
Tonga Trinidad and	2020 2015	34	32	<1	1	9	87 73	3 20	37	36	<1	1	11	85	3	23	22	<1	1	2	95	2
Tobago	2010 2020 2015	-	-	-	-	6	73	20	-	- // //	-	-	-	- 20	-	-	- 7	-	-	- 7	-	-
Tunisia	2020	81	19 21	<1 <1	55 59	18 22	20 17	57 60	52 63	44 53	<1 <1	8 10	43 51	38 38	9 10	85 89	8	1	76 80	7 9	12 8	80 82
Turkey	2015 2020	74 78	6 5	5 4	63 69	13 11	-	84 89	73 80	21 19	15 15	37 46	42 38	-	50 61	75 78	1 1	1 <1	72 76	3 2	-	96 98
Turkmenistan	2015 2020	-	-	-	-	71 69	2 2	26 29	-	-	-	-	98 98	<1 1	<1 <1	-	-	-	-	45 43	2 3	52 54
Turks and Caicos Islands	2015 2018	-	-	-	-	17 17	61 61	9 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-

COUNTRY,		iousands)	n			NAT	ION	AL				RU	JRAL					UR	BAN	I	
AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change in basic	Annual rate of change in open defecation
Tuvalu	2015	11	60	84	7	<1	9		-	82	5	<1	14	-	-	85	9	<1	6	-	-
	2018	12		84	8	<1	9			82	5	<1	14			85	9	<1	6		
Uganda	2015 2020	38 225 45 741	22	19	16	58	7 5	0.16	-0.49	17	9	66	8	0.13	-0.55	28	41	29	2	-0.04	-0.01
	2020	43 741	25 69	20 97	18 2	58 <1	5 <1			17 96	10 3	67 <1	6 <1			28 98	39 2	31 <1	2 <1		
Ukraine	2020	43 734	70	98	2	<1	<1	0.18	-0.00	97	3	<1	<1	0.44	-0.01	98	2	<1	<1	0.05	0.00
United Arab	2015	9 263	86	99	<1	<1	<1			-	-	-	2			-	-	-	2		
Emirates	2020	9 890	87	>99	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	2015	65 860	83	>99	<1	<1	<1	0.00	0.00	>99	<1	<1	<1	0.00	0.00	>99	<1	<1	<1	0.00	0.00
United Kingdom	2020	67 886	84	>99	<1	<1	<1	-0.00	0.00	>99	<1	<1	<1	0.00	0.00	>99	<1	<1	<1	0.00	0.00
United Republic	2015	51 483	32	26	14	49	11	1.33	0.03	19	5	61	15	0.98	0.18	40	35	24	2	1.85	-0.06
of Tanzania	2020	59 734	35	32	19	39	11	1.00	0.00	23	6	55	16	0.70	0.10	47	42	9	1	1.00	0.00
United States	2015	105	95	>99	<1	<1	<1	0.02	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands	2020	104	96	>99	<1	<1	<1			-	-	-	-			-	-	-	-		
United States of America	2015	320 878	82	>99	<1	<1	<1	-0.01	0.00	>99	<1	<1	<1	-0.05	0.00	>99	<1	<1	<1	-0.00	0.00
of America	2020	331 003	83	>99	<1	<1	<1			99	<1	1	<1			>99	<1	<1	<1		
Uruguay	2015 2020	3 412 3 474	95 96	97 98	2 1	<1 <1	<1 <1	0.23	-0.07	95 99	1 <1	3 <1	1 <1	0.68	-0.23	97 98	2 1	<1 <1	<1 <1	0.20	-0.05
	2020	30 930	51	>99 >99	<1	<1	<1			>99	<1	<1	<1			90 >99	<1	<1	<1		
Uzbekistan	2020	33 469	50	>99	<1	<1	<1	0.37	-0.00	>99	<1	<1	<1	0.58	-0.00	>99	<1	<1	<1	0.12	0.00
	2015	271	25	53	16	30	<1			50	12	38	<1			65	27	8	<1		
Vanuatu	2020	307	26	53	16	31	<1	-0.15	-0.10	49	12	39	<1	-0.20	-0.14	65	27	8	<1	-0.11	0.02
Venezuela (Bolivarian	2015	30 082	88	95	<1	1	4			-	-	-	-			-	-	-	-		
Republic of)	2020	28 436	88	96	<1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Viet Nam	2015	92 677	34	81	4	12	4	1.87	-0.74	75	4	16	5	2 13	-0.90	93	3	3	2	0.77	-0.19
Victinum	2020	97 339	37	89	4	4	3	1.07	0.71	85	5	6	4	2.10	0.70	96	3	<1	1	0.77	0.17
Wallis and	2015		0	95	<1	<1	5	-	-	95	<1	<1	5	-	-	-	-	-	-	-	-
Futuna Islands	2020		0	93	<1	<1	7			93	<1	<1	7			-	-	-	-		
Yemen	2015	26 498		52	5	28	15	0.44	-1.12	36	5	37	23	0.47	-1.35	81	5	13	2	-0.52	-0.15
	2020	29 826		54	5	31	10			39	5	41	15			79	5	15	1		
Zambia	2015 2020	15 879 18 384		30 32	17	38	15	0.49	-0.83	20	7	48	25	0.77	-1.09	43	31 25	24	2 2	-0.27	-0.09
	2020	13 815		32 38	20 27	37 10	11 25			25 33	7 17	49 13	19 37			41 49	35 48	22 3	2 <1		
Zimbabwe	2020	14 863		35	30	11	23	-0.47	-0.36	32	18	15	35	-0.15	-0.49	42	55	3	<1	-1.07	-0.18

				N	ATI	ONAL						RU	RAL						URE	BAN		
COUNTRY,		of usi sanit	f pop ing in tatior	ortior ulatio nprov n faci g sha	on ved lities	of p usin sanita	oportio opulat g impro tion fao ding sh	ion oved cilities	of usi sanit	Propo pop ing in tatior ludin	ulatio nprov n faci	on ved lities	of p usin sanita	oportic oopulat g impro tion fac ding sh	ion oved cilities	of usi sanit	Propo f popu ing in tatior ludin	ulatio nprov n faci	on /ed lities	of ן usin sanita	roportio populat g impro ition fac iding sh	tion oved cilities
AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
Tuvalu	2015	6	6	<1	<1	9	8	74	8	8	<1	<1	8	15	63	5	5	<1	<1	10	4	81
	2018	6	6	<1	<1	9	8	74	8	8	<1	<1	8	15	63	5	5	<1	<1	10	4	81
Uganda	2015 2020	-	-	-	<1	33 35	2 2	<1	15	15	<1	<1	25 27	<1 <1	<1	-	-	-	<1	60 58	7 7	2 2
	2020	65	- 24	- 13	<1 28	35 48	2 <1	<1 51	16	16	<1	<1	27 94	3	<1 3	- 61	- 13	- 8	<1 40	58 27	/ <1	Z 73
Ukraine	2020	72	24	15	33	48	<1	51	-	-	-	2	95	3	3	69	13	9	47	27	<1	73
United Arab	2015	92	2	2	89	3	7	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emirates	2020	>99	1	1	96	3	<1	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	2015 2020	98 98	<1 <1	<1 <1	97 97	<1 <1	2 2	98 98	94 94	3 3	3 3	88 88	<1 <1	12 12	88 88	99 99	<1 <1	<1 <1	99 99	<1 <1	<1 <1	>99 >99
United Republic	2015	22	22	<1	<1	33	6	1	18	18	<1	<1	22	2	<1	30	29	<1	1	58	14	3
of Tanzania	2020	26	26	<1	<1	40	10	<1	22	22	<1	<1	26	3	<1	35	34	<1	<1	67	21	1
United States Virgin Islands	2015 2020	-	-	-	-	<1 <1	56 57	42 42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
United States	2015	98	9	8	80	<1	17	82	-	-	-	31	<1	68	32	97	3	3	91	<1	6	94
of America	2020	98	7	7	82	<1	15	85	-	-	-	35	<1	63	36	97	3	2	92	<1	5	95
Uruguay	2015 2020	-	-	-	-	3 4	36 33	60 61	-	-	-	-	7 12	87 85	2 2	-	-	-	-	2 4	34 31	63 64
	2015	-	-	-	-	76	<1	24	-	-	-	-	>99	<1	<1	-	-	-	-	52	<1	47
Uzbekistan	2020	-	-	-	-	73	<1	27	-	-	-	-	>99	<1	<1	-	-	-	-	47	<1	52
Vanuatu	2015	-	-	-	-	46	20	3	-	-	-	-	56	3	2	-	-	-	-	14	70	8
vanuatu	2020	-	-	-	-	44	21	3	-	-	-	-	55	3	2	-	-	-	-	13	70	8
Venezuela (Bolivarian	2015	22	<1	<1	21	1	10	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Republic of)	2020	23	<1	<1	23	<1	6	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Viet Nam	2015 2020		-	-	-	16 21	67 71	1 1	-	-	-	-	24 32	54 57	<1 <1	-	-	-	-	1 1	92 95	2 2
Wallis and	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Futuna Islands	2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	2015 2020		7 8	2	19 21	2 4	25 24	29 30	-	-	-	<1 <1	4 7	30 30	7 7	61	4 3	3 3	54 54	<1 <1	16 14	69
	2020		0	2	- 21	4 32	24 5	30 10	- 20	- 19	<1	<1	26	30	<1	61	3	3	-	< 1 40	14 11	69 22
Zambia	2013	-	_	-	-	32 36	э 8	8	20	24		<1	20 30	1	<1	_	-	_	-	40 43	15	18
	2015	27	23	<1	4	34	5	27	31	31	<1	<1	46	2	2	19	6	<1	13	8	9	79
Zimbabwe	2020		22	<1	4	33	6	26	30	30	<1	<1	46	3	1	16	5	<1	11	7	12	78

# Annex 5: NATIONAL HYGIENE ESTIMATES

					NATIC	DNAL			RUF	RAL			URB	AN	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic
Afghanistan	2015	34 414	25	38	34	28	0.08	29	38	33	0.00	64	23	13	0.00
Algeria	2020 2015 2020	38 928 39 728 43 851	26 71 74	38 84 85	34 9 11	28 7 5	0.13	29 74 75	38 14 16	33 12 9	0.25	64 88 88	23 6 9	13 5 3	-0.03
Angola	2015 2020	27 884 32 866	63 67	26 27	15 15	59 58	0.14	13 13	14 14	73 73	0.00	34 34	16 16	50 50	0.00
Armenia	2015 2020	2 926 2 963	63 63	93 95	2 <1	5 5	0.40	87 91	4 <1	10 10	0.85	96 97	2 1	2 2	0.13
Azerbaijan	2015 2017	9 623 9 845	55 55	89 89	9	2	-	87 87	11 11	2	-	91 91	8	1	-
Bangladesh	2015 2020	156 256 164 689	34 38	42 58	48 36	- 10 6	3.33	35 54	54 39	- 12 7	3.85	55 66	38 30	6 4	2.07
Barbados	2015 2016	285 286	31 31	88 88	2	9 9	-	-	-	-	-	-	-	-	-
Belize	2015 2020	361 398	45 46	88 90	7 10	5 <1	0.51	88 89	7 11	5 <1	0.19	88 92	7 8	5 <1	0.89
Benin	2015 2020	10 576 12 123	46 48	9 12	47 44	44 44	0.56	6 8	50 48	44 44	0.43	13 17	43 40	43 43	0.61
Bhutan	2015 2020	728 772	39 42	86 92	13 8	1 <1	1.19	84 93	14 6	2 <1	1.83	88 89	11 10	<1 <1	0.26
Bolivia (Plurinational State of)	2015 2020	10 870 11 673	68 70	27 27	13 13	60 60	0.02	22 22	26 26	52 52	0.00	29 29	8 8	63 63	0.00
Bosnia and Herzegovina	2015 2016	3 429 3 386	47 48	97 97	2 2	1 1	-	96 96	2 2	2 2	-	99 99	<1 <1	<1 <1	-
Burkina Faso	2015 2020	18 111 20 903	28 31	9 9	46 27	46 64	0.04	5 5	47 27	48 68	0.12	19 17	42 29	38 54	-0.43
Burundi	2015 2020	10 160 11 891	12 14	6 6	91 94	3 <1	0.01	4 4	93 96	3 <1	0.01	21 19	77 81	2 <1	-0.37
Cambodia	2015 2020	15 521 16 719	22 24	67 74	13 13	20 14	1.32	62 71	15 14	24 15	1.86	87 83	6 8	7 9	-0.82
Cameroon	2015 2020	23 298 26 546	55 58	36 36	60 60	4 4	0.15	22 22	74 74	4 4	0.00	47 47	49 49	4 4	0.00
Central African Republic	2015 2020	4 493 4 830	40 42	19 22	10 15	71 63	0.51	13 12	10 15	78 72	-0.08	28 34	11 16	61 50	1.19
Chad	2015 2020	14 111 16 426	23 24	21 25	26 30	53 44	0.88	16 22	27 31	56 47	1.24	37 35	23 29	40 37	-0.46
Colombia	2015 2020	47 521 50 883	80 81	67 68	4	29 28	0.15	32 32	5 5	63 63	0.00	76 76	4	20 20	0.00
Comoros	2015 2016	777 796	28 29	16 16	35 35	49 49	-	15 15	33 33	52 52	-	18 18	42 42	40 40	-
Congo	2015 2019	4 856 5 381	66 67	48 48	34 34	18 18	-	32 32	43 43	25 25	-	56 56	29 29	14 14	-
Costa Rica	2015 2020	4 848 5 094	77 81	85 86	10 9	5 5	0.24	83 83	12 12	5 5	0.04	85 87	9 9	6 5	0.26
Côte d'Ivoire	2015 2020	23 226 26 378	49 52	18 22	37 37	45 41	0.67	9 11	41 50	50 39	0.42	28 31	32 25	40 44	0.73
Cuba	2015 2020	11 325 11 327	77 77	86 92	10 7	4 <1	1.17	78 86	12 14	10 <1	1.71	89 94	9 5	2 <1	1.00
Democratic People's Republic of Korea	2015 2020	25 184 25 779	61 62	-	-	<1 <1	-	-	-	<1 <1	-	-	-	<1 <1	-

'-' = no estimate. For JMP estimate methods see Annex 1. For unrounded estimates see www.washdata.org

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					NATIO	DNAL			RUF	RAL			URB	AN	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic
Democratic Republic of the Congo	2015 2020	76 245 89 561	43 46	19 19	38 38	43 42	0.09	12 12	39 39	49 49	0.00	27 27	38 38	35 35	0.00
Dominican Republic	2015 2020	10 282 10 848	79 83	46 47	14 14	40 39	0.13	33 33	13 13	54 54	0.00	50 50	14 14	36 36	0.00
Ecuador	2015 2020	16 212 17 643	63 64	87 87	10 9	3 3	0.02	79 79	16 16	5 5	0.00	92 92	6 6	2 2	0.00
Egypt	2015 2020	92 443 102 334	43 43	88 90	11 9	<1 <1	0.30	85 88	14 12	<1 <1	0.46	92 93	6 6	2 2	0.08
El Salvador	2015 2018	6 325 6 421	70 72	91 91	7	3		86 86	10 10	4		92 92	5	2 2	
Equatorial Guinea	2015 2020	1 169	71	24 -	22	53	-	20	25	56 -	-	26 -	21	53 -	-
Eswatini	2015 2020	1 104 1 160	23 24	24 24	31 31	45 44	0.05	17 17	33 33	50 50	0.00	48 48	26 26	26 26	0.00
Ethiopia	2015 2020	100 835 114 964	19 22	8 8	54 54	39 38	0.07	5 5	52 52	43 43	0.00	20 20	60 60	20 20	0.00
Gambia	2015 2020	2 086 2 417	59 63	18 18	74 74	8 8	-0.00	18 18	76 76	6 6	0.00	18 18	73 73	9 9	0.00
Georgia	2015 2020	4 024 3 989	57 59	92 92	7 7	1 1	0.03	87 87	11 11	2 2	0.00	95 95	4 4	1 1	0.00
Ghana	2015 2020	27 849 31 073	54 57	41 42	37 37	22 22	0.08	35 35	40 40	25 25	0.00	47 47	34 34	19 19	0.00
Guatemala	2015 2019	16 252 17 581	50 51	77 77	21 21	3 3	-	70 70	27 27	3 3	-	83 83	14 14	2 2	-
Guinea	2015 2020	11 432 13 133	35 37	20 20	51 51	28 28	0.07	13 13	57 57	30 30	0.00	33 33	42 42	25 25	0.00
Guinea-Bissau	2015 2020	1 737 1 968	42 44	10 18	8 13	82 69	1.53	8 14	7 12	85 74	1.30	14 23	9 14	77 63	1.75
Guyana	2015 2018	767 779	26 27	77 77	11 11	12 12		78 78	12 12	10 10	-	75 75	9 9	16 16	-
Haiti	2015 2020	10 696 11 403	52 57	23 22	54 69	23 9	-0.21	17 15	56 71	27 14	-0.21	30 28	51 68	19 5	-0.42
Honduras	2015 2016	9 113 9 271	55 56	84 84	10 10	6 6		80 80	15 15	5 5	-	87 87	6 6	7 7	-
India	2015 2020	1 310 152 1 380 004	33 35	67 68	30 29	3 3	0.10	60 60	37 37	3 3	0.00	82 82	16 16	2 2	0.00
Indonesia	2015 2020	258 383 273 524	53 57	84 94	6 6	10 <1	2.03	77 91	9 9	15 <1	2.94	90 96	4 4	6 <1	1.17
Iraq	2015 2020	35 572 40 223	70 71	94 97	3 2	3 <1	0.70	88 97	6 3	6 <1	1.76	96 98	2 2	1 <1	0.24
Jamaica	2015 2020	2 891	55 -	67 -	16 -	17 -	-	63 -	18 -	18 -	-	69 -	14 -	16 -	-
Kazakhstan	2015 2020	17 572 18 777	57 58	>99 -	<1 -	<1 <1	-	99 -	<1 -	<1 <1	-	>99 -	<1 -	<1 <1	-
Kenya	2015 2020	47 878 53 771	26 28	27 27	33 33	40 40	0.04	24 24	32 32	44 44	0.00	33 33	37 37	29 29	0.00
Kiribati	2015 2020	111 119	52 56	55 56	31 31	14 14	0.06	51 51	32 32	17 17	0.00	59 59	30 30	12 12	0.00
Kyrgyzstan	2015 2020	5 959 6 524	36 37	92 >99	7 <1	1 <1	1.61	90 >99	9 <1	1 <1	1.99	95 >99	4 <1	<1 <1	0.93

					NATIO	DNAL			RUF	RAL			URE	BAN	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic
Lao People's Democratic Republic	2015 2020	6 741 7 276	33 36	55 56	35 34	10 10	0.18	46 46	43 43	11 11	0.00	73 73	19 19	8 8	0.00
Lesotho	2015	2 059	27	5	43	51	0.03	4	44	53	0.00	10	42	48	0.00
	2020 2015	2 142 4 472	29 50	6 1	43 1	51 97	0.00	4 <1	44	53 98	0.00	10 2	42 1	48 97	0.00
Liberia	2015	4 472	50 51	1	1	97 97	-	<1	1	98 98	-	2	1	97	-
Madagascar	2015	24 234	35	26	44	30	0.20	18	45	36	0.26	39	41	20	-0.27
-	2020 2015	27 691 16 745	39 16	27 10	43 75	30 15		20 8	44 75	36 17		38 18	42 76	20 7	
Malawi	2020	19 130	17	8	76	16	-0.28	7	75	18	-0.22	14	78	8	-0.71
Maldives	2015 2020	455 541	39 41	96 96	2 2	2 2	0.01	95 95	1	4 4	0.00	97 97	2 2	<1 <1	0.00
	2020	17 439	41 40	96 16	54	30		95 9	61	4 29		97 27	42	<1 31	
Mali	2020	20 251	44	17	53	30	0.14	9	61	29	0.00	27	42	31	0.00
Marshall Islands	2015	57	76	85	13	2	0.02	80	15	4	0.00	86	12	2	0.00
	2020 2015	59 4 046	78 51	85 52	13 28	2 20		80 36	15 31	4 33		86 66	12 26	2 8	
Mauritania	2015	4 526	55	52 53	28	20 19	-	30 36	31	33	-	00 66	20	8	-
Maria	2015	121 858	79	90	7	3		84	11	5		91	6	2	
Mexico	2019	127 576	80	90	7	3	-	84	11	5	-	91	6	2	-
Mongolia	2015	2 998	68	76	12	12	2.01	60	17	22	4.14	84	9	7	1.01
-	2020 2015	3 278 627	69 66	86 >99	14	<1 <1		81 >99	19 <1	<1 <1		89 >99	11	<1 <1	
Montenegro	2013	628	67	>99	<1	<1	-0.00	>99	<1	<1	0.00	>99	<1	<1	0.00
Mozambiqua	2015	27 042	34	12	32	55		8	37	55		21	24	55	
Mozambique	2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Myanmar	2015	52 681	30	74	20	5	0.03	71	23	6	0.00	83	14	3	0.00
	2020 2015	54 410 2 315	31 47	75 44	20 44	5 12		71 27	23 58	6 15		83 62	14 28	3 9	
Namibia	2013	2 403	49	45	43	12	-	27	58	15	-	62	28	9	-
Nepal	2015	27 015	19	55	44	1	1.37	51	48	1	1.59	75	24	<1	0.03
heput	2020	29 137	21	62	36	1	1.07	59	40	2	1.07	75	24	1	0.00
Niger	2015 2020	20 002 24 207	16 17	18 23	59 53	23 24	1.10	15 20	59 51	26 28	1.18	35 39	59 60	6 2	0.61
	2020	181 137	48	33	37	31		25	41	34		41	32	27	
Nigeria	2020	206 140	52	33	36	30	0.13	25	41	34	0.00	41	32	27	0.00
Niue	2015	2	43	-	-	19	-	-	-	-	-	-	-	-	-
	2020	2 2 079	46	-	-	21		-	-	-		-	-	-	
North Macedonia	2015 2020	2 079	57 58	>99 >99	<1 <1	<1 <1	-0.00	>99 >99	<1 <1	<1 <1	0.00	>99 >99	<1 <1	<1 <1	0.00
occupied Palestinian	2016	4 636	76	92	7	1		92	6	2		92	7	<1	
territory*	2020	5 101	77	92	7	1	-	92	6	2		92	7	<1	
Oman	2015	4 267	81 04	97	-	-	0.00	-	-	-	-	-	-	-	-
	2020 2015	5 107 199 427	86 36	97 64	- 29	- 7		- 53	- 39	- 8		- 85	- 11	- 4	
Pakistan	2010	220 892	37	80	18	2	3.15	74	24	2	4.25	90	8	2	1.09
Papua New Guinea	2015	8 108	13	30	29	41	0.03	25	30	45	0.00	62	26	11	0.00
	2020	8 947	13	30	29	41	0.00	25	30	45	0.00	62	26	11	0.00
Paraguay	2015	6 689 7 133	61 42	80	18	2	0.04	72	25	3	0.00	85	13	2	0.00
	2020 2015	7 133 30 471	62 77	80	18	2		72 55	25 42	3 3		85	- 13	2	
Peru	2013	32 972	78	-	-	-	-	55	42	3	0.00	-		-	-
Philippines	2015	102 113	46	82	12	7	0.02	79	13	9	0.00	85	10	4	0.00
muppines	2020	109 581	47	82	12	7	0.02	79	13	9	0.00	85	10	4	0.00
Republic of Moldova	2015 2016	4 071 4 066	42 43	87 87	7 7	6 6	-	82 82	10 10	8 8	-	93 93	2 2	4 4	-

					NATIO	ναι			RUF	201			URE	AN	
		L (S				JINAL									
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic	Basic	Limited (without water or soap)	No service	Annual rate of change in basic
Rwanda	2015	11 369	17	4	9	87	0.08	2	9	88	0.06	13	7	80	0.14
	2020 2015	12 952 179	17 19	5 87	10 7	86 5		3 87	10 7	87 5		13 88	8	79 5	
Saint Lucia	2016	180	19	87	7	5	-	87	7	5	-	88	7	5	-
Samoa	2016	195	19	79	-	-	-	-	-	-	-	-	-	-	-
	2020 2015	198 199	18 70	79 44	- 14	- 42		- 47	- 17	- 36		- 43	- 13	- 44	
Sao Tome and Principe	2015	219	74	44 55	17	42 28	2.30	47	20	36	-0.66	43 59	15	44 25	3.38
Senegal	2015	14 578	46	21	21	57	0.11	10	20	69	0.00	35	22	43	0.00
Senegal	2020	16 744	48	22	21	57	0.11	10	20	69	0.00	35	22	43	0.00
Sierra Leone	2015	7 172 7 977	41 43	16	28	56	1.08	12 19	29 14	60	1.46	21 24	27	52	0.49
	2020 2015	603	43 22	21 38	15 34	64 28		28	40	67 31		24 71	16 12	60 17	
Solomon Islands	2020	687	25	-	-	-		28	-	-	0.00	-	-	-	-
Somalia	2015	13 797	43	25	54	21	0.07	19	55	26	0.00	32	54	15	0.00
Joinalia	2020	15 893	46	25	54	21	0.07	19	55	26	0.00	32	54	15	0.00
South Africa	2015 2020	55 386 59 309	65 67	44 44	44 43	12 12	0.13	27 27	55 55	18 18	0.00	53 53	38 38	10 10	0.00
	2020	38 903	34	21	21	58		-	-	-		-	-	-	
Sudan	2020	43 849	35	13	-	-	-1.75	-	-	-	-	-	-	-	-
Suriname	2015	559	66	72	17	11	0.00	67	25	8	0.00	75	13	12	0.00
	2020	587	66	72	17	11		67	25	8		75	13	12	
Syrian Arab Republic	2015 2020	17 997 17 501	52 55	83 83	9 9	9 9	0.03	80 80	9 9	11 11	0.00	85 85	8 8	7 7	0.00
	2015	8 454	27	73	22	6		67	26	7		88	11	2	
Tajikistan	2020	9 538	28	73	24	4	0.05	68	28	4	0.10	87	12	2	-0.17
Thailand	2015	68 715	48	85	9	6	0.03	83	11	6	0.00	87	7	6	0.00
	2020	69 800 1 196	51	85	9	6		83	11	6		87	7	6	
Timor-Leste	2015 2020	1 318	29 31	28 28	65 64	7 7	0.08	22 22	69 69	9 9	0.00	43 43	54 54	4 4	0.00
T	2015	7 323	40	14	11	75	0.70	7	10	83	0.50	24	13	63	0.7
Тодо	2020	8 279	43	17	9	74	0.70	10	7	83	0.58	27	11	62	0.67
Tonga	2015	101	23	70	29	2	-0.00	66	32	1	0.00	80	16	4	0.00
5	2020 2015	106 1 370	23 53	70 90	29 4	2		66	32	1		80	16	4	
Trinidad and Tobago	2013		-	-	-	-	-	-	-	_	-	_	-	_	-
Tunisia	2015	11 180	68	86	6	8	-0.29	67	14	18	0.03	94	3	3	-0.55
Tuttisia	2020	11 819	70	84	5	11	0.27	67	9	24	0.00	91	3	5	0.00
Turkmenistan	2015	5 565	50	98	<1	2	0.47	97	<1	3	0.67	99 >99	<1	<1	0.28
	2020 2015	6 031 38 225	53 22	>99 19	<1 30	<1 51		>99 15	<1 31	<1 53		>99 31	<1 27	<1 41	
Uganda	2020	45 741	25	23	32	45	0.73	18	34	48	0.56	36	27	37	0.90
United Republic	2015	51 483	32	48	35	17	0.16	40	40	19	0.00	63	25	12	0.00
of Tanzania	2020	59 734	35	48	35	17	0.110	40	40	19	0.00	63	25	12	0.00
Vanuatu	2015 2017	271 285	25 25	25 25	43 43	32 32	-	17 17	46 46	36 36		48 48	33 33	19 19	-
	2017	92 677	25 34	25 86	43 13	2		82	40	2		48 93	7	<1	
Viet Nam	2020	97 339	37	86	12	2	0.07	82	16	2	0.00	93	7	<1	0.00
Yemen	2015	26 498	35	48	27	24	_	36	31	33	_	70	21	9	_
	2017	27 835	36	49	27	24		36	31	33		70	21	9	
Zambia	2015 2020	15 879 18 384	42 45	17 18	31 31	51 51	0.11	9 9	29 29	62 62	0.00	29 29	35 35	36 36	0.00
	2020	13 815	32	42	55	3		36	60	3	0.07	29 56	42	2	6.65
Zimbabwe	2020	14 863	32	42	55	3	-0.01	36	60	3	0.00	56	42	2	0.00

\*Including east Jerusalem. UNICEF reports and the Global SDG Indicators Database refer to 'State of Palestine'.

### Annex 6:

### NATIONAL MENSTRUAL HEALTH DATA

						Ν	IATIC	DNA	L				RUR	AL					URB	AN		
			ıd girls ds)	ation)	w	and g ho ha	ortion girls a ave m e previ	ige 18 ensti	5-49 ruate	d	w	and g ho ha	ortion girls a ave m e previ	ge 1 ensti	5-49 ruate	d	w	and ho h	ortion girls a ave m e previ	ge 18 enstr	5-49 uate	d
COUNTRY, AREA OR TERRITORY	Year	Survey name	Population of women and age 15-49 (thousands)	% urban (of total population)	Awareness of menstruation before menarche	Private place to wash and change	Participation in activities during menstruation	Use of menstrual materials	Use of reusable materials	Use of single-use materials	Awareness of menstruation before menarche	Private place to wash and change	Participation in activities during menstruation	Use of menstrual materials	Use of reusable materials	Use of single-use materials	Awareness of menstruation before menarche	Private place to wash and change	Participation in activities during menstruation	Use of menstrual materials	Use of reusable materials	Use of single-use materials
Algeria	2019	MICS	10 921	73	-	90	75	95	5	90	-	88	77	94	7	87	-	91	74	95	3	91
Bangladesh	2018	NHS	45 211	37	32	83	45	-	-	-	33	84	44	-	-	-	31	82	59	-	-	-
Bangladesh	2019	MICS	45 733	37	-	97		98	66	30	-	97		98	71	25	-	97		98	51	47
Burkina Faso	2017	PMA	4 446	29	-	70	81	90	49	41	-	66	78	87	59	29	-	82	78	97	18	79
Burkina Faso	2019	PMA	4 736	30	-	74	84	87	50	37	-	72	82	85	63	22	-	79	82	92	16	76
Central African Republic	2019	MICS	1 112	42	-	92	68	95	62	33	-	92	66	96	77	19	-	92	72	94	39	55
Chad	2019	MICS	3 603	23		93	67	95	80	15	-	94	66	95	87	8	-	92	69	93	55	38
Costa Rica	2018	MICS	1 309	79	-	99	93	99	2	96	-	99	92	99	2	96	-	99	94	99	2	96
Côte d'Ivoire	2018	PMA	6 039	51	-	80	78	99	50	49	-	80	68	100	72	28	-	80	81	99	38	61
Cuba	2019	MICS	2 574	77	-	95	72	98	3	95	-	97	67	98	4	94	-	94	74	97	2	95
Democratic People's Republic of Korea	2017	MICS	6 654	62	-	99	98	99	55	43	-	99	99	99	74	25	-	99	98	99	43	55
Democratic Republic of the Congo	2018	MICS	18 690	44	-	90	86	95	56	39	-	89	85	93	78	15	-	92	86	96	35	61
Egypt	2009	SYP	21 074	43	-	-	-	99	-	-	-	-	-	98	-	-	-	-	-	100	-	-
Egypt	2014	SYP	23 043	43	66	-	-	99	-	-	63	-	-	98	-	-	72	-	-	99	-	-
Ethiopia	2017	PMA	25 832	20	-	80		83	46	37	-	80	-	78	55	23	-	80		96	25	71
Gambia	2018	MICS	548	61	-	96	80	98	58	40	-	98	83	99	79	21	-	95	79	98	50	47
Ghana	2016	PMA	7 099	55	-	83		98	13	86	-	80		98	21	77	-	86		99	5	93
Ghana	2018	MICS	7 409	56	-	94	81	98	13	85	-	93	80	98	18	80	-	95	82	98	7	91
Guinea-Bissau	2019	MICS	479	44	-	-	92	-	-	-	-	-	93	-	-	-	-	-	90	-	-	-
India	2016	NFHS	340 849	33	-	-	-	99	-	-	-	-	-	99	-	-	-	-	-	99	-	-
Indonesia	2016	PMA	70 109	54	-	93	-	98	13	85	-	90	-	97	17	79	-	96	-	99	9	91
Iraq	2018	MICS	9 668	70	-	89	89	96	11	85	-	87	88	96	17	79	-	89	90	96	8	87
Kenya	2016	PMA	12 485	26	-	89	-	99	13	86	-	89	-	99	16	83	-	89	-	99	6	94

Proportion of wome and girls age 15-49 who have menstruat and girls ands) opulation) in the previous yea Survey name Population of women age 15-49 (thous: oq COUNTRY, Year urban (of total AREA OR and TERRITORY age % Kiribati 2019 MICS 30 55 93 84 98 -16 2018 MICS 1 604 36 - 93 93 97 18 Kyrgyzstan Lao People's 2017 LSIS 1862 34 **81 88 82** 3 -. Democratic Republic Lesotho 2018 MICS 551 28 - **95 87 98** 8 Madagascar 2018 MICS 6 451 37 - **91 92 94** 73 Mongolia 2018 MICS 849 68 - **89 97 91** 3 Montenegro 146 67 - 97 93 97 4 2019 MICS Nepal 2014 MICS 7765 18 - - 31 -2019 MICS 8840 20 - 87 0 94 59 Nepal Niger 2016 PMA 4 339 16 - **52 - 85** 63 2018 PMA 44 911 50 - **81 77 95** 23 Nigeria North Macedonia 2019 MICS 507 58 98 93 99 occupied Palestinian 2020 MICS 1 277 77 - 80 - - 2 territory\* Samoa 2020 pMICS 44 18 - 81 - 81 Sao Tome and 2019 MICS 50 74 **94 89 100** 97 -Principe 2019 MICS 2006 56 - 99 91 98 Serbia Sierra Leone 2017 MICS 1816 42 **93 80 97** 68 -Suriname 2018 MICS 147 66 - 96 83 93 Togo 2017 MICS 1 875 41 **92 88 96** 57 -2019 pMICS 26 23 Tonga -94 84 Turkmenistan 2019 MICS 1 565 52 - **99 99 99** 1 Uganda 2017 PMA 9670 23 -**87 - 98** 41 Zimbabwe 2019 MICS 3795 32 - 97 84 98 22

NATIONAL

'-' = no estimate. For JMP estimate methods see Annex 1. For unrounded estimates see www.washdata.org

				RUR	AL					URB	AN		
er 19 1te ar*	d	w	and { ho ha	ortion girls a ave m prev	ge 14 enstr	5-49 uate		w	and g ho ha	rtion girls a ave m prev	ge 1 ensti	5-49 ruate	d
	Use of single-use materials	Awareness of menstruation before menarche	Private place to wash and change	Participation in activities during menstruation	Use of menstrual materials	Use of reusable materials	Use of single-use materials	Awareness of menstruation before menarche	Private place to wash and change	Participation in activities during menstruation	Use of menstrual materials	Use of reusable materials	Use of single-use materials
6	82	-	91	85	98	24	74	-	94	83	98	11	87
8	79	-	93	94	97	25	72	-	94	91	97	8	89
3	79	-	74	88	75	3	72	-	93	88	94	2	92
3	90	-	94	86	98	12	85	-	95	88	98	3	96
3	21	-	91	92	93	79	14	-	90	90	97	58	39
3	89	-	90	96	91	5	86	-	89	97	92	2	90
ŀ	93	-	98	94	97	4	93	-	97	93	97	4	93
	-	-	-	30	-	-	-	-	-	36	-	-	-
9	35	-	82	0	93	71	21	-	89	0	94	54	41
3	22	-	47	-	83	73	10	-	61	-	94	35	58
3	72	-	67	79	95	43	51	-	90	74	96	11	85
	98	-	97	92	98	1	97	-	98	94	99	1	98
2	94	-	83	-	-	2	92	-	80	-	-	2	94
	-	-	-	-	-	-	-	-	-	-	-	-	-
7	3	-	93	87	100	96	4	-	95	90	99	97	2
	98	-	99	89	98	0	98	-	99	92	98	1	98
8	29	-	90	80	97	88	9	-	96	80	97	48	50
ŀ	89	-	96	82	87	6	81	-	96	83	95	3	92
7	39	-	90	87	96	76	20	-	93	88	97	39	58
	93	-	94	84	-	1	94	-	94	87	-	1	90
	98	-	99	99	99	1	99	-	99	99	99	1	98
1	57	-	85	-	98	46	52	-	92	-	98	24	74
2	76	-	96	83	97	29	68	-	97	84	99	11	88

\*Including east Jerusalem. UNICEF reports and the Global SDG Indicators Database refer to 'State of Palestine'.

# Annex 7: INEQUALITIES IN BASIC SERVICES

							INEQ	UALII	TIES E	BY WE	EALTH	QUIN	TILE				
			Basi	c drin			Basic			Ope		Basi	c hyg	iene	Bas	ic W/	ASH*
				water I		sa	nitati		de	efecat			. 78				
COUNTRIES, AREAS AND TERRITORIES	Year	Survey Name	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: poorest to richest	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: richest to poorest
Afghanistan	2015	DHS	45	92	2.0	10	57	5.8	27	2	16.1	8	61	8.0	-	-	-
Albania	2018	DHS	93	98	1.1	94	99	1.1	<1	<1	-	-	-	-	-	-	-
Algeria	2019	MICS	89	96	1.1	72	95	1.3	3	<1	-	62	96	1.5	41	86	2.1
Angola	2016	DHS	21	89	4.3	15	87	5.9	72	<1	1291.6	9	57	6.2	-	-	
Armenia	2016	DHS	>99	>99	1.0	86	96	1.1	<1	<1	-	85	>99	1.2	-	-	-
Azerbaijan	2006	DHS	69	98	1.4	68	92	1.4	<1	<1	-	-	-	-	-	-	-
Bangladesh	2019	MICS	94	>99	1.1	48	82	1.7	5	<1	-	31	86	2.8	16	77	4.9
Barbados	2012	MICS	99	>99	1.0	93	98	1.1	2	<1	-	79	91	1.2	-	-	-
Belarus	2012	MICS	99	>99	1.0	91	>99	1.1	<1	<1	-	-	-	-	-	-	-
Belize	2016	MICS	95	97	1.0	66	98	1.5	5	<1	-	83	94	1.1	-	-	-
Benin	2018	DHS	44	83	1.9	<1	43	50.9	85	14	6.1	4	22	5.6	<1	14	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Bhutan	2010	MICS	91	>99	1.1	38	92	2.4	7	<1	56.2	72	90	1.2	-	-	-
Bolivia (Plurinational State of)	2016	EDS	77	>99	1.3	23	88	3.8	51	<1	119.0	7	41	5.7	-	-	-
Bosnia and Herzegovina	2012	MICS	98	>99	1.0	83	99	1.2	<1	<1	-	90	>99	1.1	-	-	
Burkina Faso	2018	MIS	40	78	1.9	7	51	6.8	62	7	8.5	-	-	-	-	-	-
Burundi	2017	DHS	54	80	1.5	26	61	2.3	7	<1	171.3	2	17	9.8	-	-	
Cambodia	2014	DHS	61	95	1.6	14	91	6.6	80	2	32.2	49	90	1.9	-	-	-
Cameroon	2019	DHS	38	92	2.4	12	80	6.5	22	<1	778.3	8	65	8.3	<1	51	171.0
Central African Republic	2019	MICS	27	52	2.0	2	28	12.4	55	2	26.4	8	42	5.4	<1	9	74.1
Chad	2019	MICS	43	77	1.8	2	39	17.1	86	20	4.3	23	48	2.1	<1	20	44.5
Colombia	2015	DHS	74	>99	1.3	62	99	1.6	26	<1	-	-	-	-	-	-	-
Comoros	2012	DHS	70	93	1.3	24	53	2.2	<1	<1	12.4	13	26	2.1	-	-	-
Congo	2015	MICS	34	92	2.7	3	61	22.8	32	<1	57.1	36	73	2.0	<1	32	176.9
Costa Rica	2018	MICS	99	>99	1.0	91	98	1.1	<1	<1	5.5	73	97	1.3	60	76	1.3
Côte d'Ivoire	2016	MICS	51	98	1.9	8	77	10.0	49	<1	73.5	11	51	4.8	-	-	-
Cuba	2019	MICS	96	98	1.0	83	92	1.1	<1	<1	1.9	86	95	1.1	71	87	1.2
Democratic Republic of the Congo	2018	MICS	18	93	5.1	7	29	4.2	24	2	12.9	7	37	5.0	<1	12	93.7
Dominican Republic	2014	MICS	92	>99	1.1	58	98	1.7	9	<1	67.3	24	83	3.5	-	-	
Egypt	2015	DHS	>99	>99	1.0	89	97	1.1	<1	<1	-	-	-	-	-	-	-
El Salvador	2014	MICS	86	>99	1.2	65	98	1.5	9	<1	698.4	82	94	1.1	-	-	
Eswatini	2014	MICS	41	98	2.4	40	55	1.4	34	<1	59.4	3	48	17.5	-	-	-

\*Basic WASH refers to the proportion of population that have basic drinking water, basic sanitation, and basic hygiene services.  $\infty$  The infinity symbol is used where the poorest quintile has 0% basic WASH.

						IN	EQUA	LITIE	S BY	SUBN		IAL R	EGIC	N			
				c drin water			Basic nitati		d	Oper efecat		Basi	c hyg	iene	Bas	ic W/	ASH*
		U		water		Sd	liitati		u	lecat							
COUNTRIES, AREAS AND TERRITORIES	Year	Survey Name	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest
Afghanistan	2015	DHS	12	97	8.0	2	70	32.7	<1	80	00	<1	66	229.0	-	-	-
Albania	2018	DHS	87	>99	1.1	93	>99	1.1	<1	<1	-	-	-	-	-	-	-
Algeria	2019	MICS	91	99	1.1	83	91	1.1	<1	3	76.2	71	91	1.3	58	73	1.3
Angola	2016	DHS	28	87	3.1	12	71	5.8	2	85	36.0	4	56	15.6	-	-	-
Armenia	2016	DHS	99	>99	1.0	63	>99	1.6	<1	<1	-	85	>99	1.2	-	-	-
Azerbaijan	2006	DHS	64	>99	1.5	53	95	1.8	<1	2	00	-	-	-	-	-	-
Bangladesh	2019	MICS	94	>99	1.1	57	72	1.3	<1	7	92.0	34	68	2.0	24	48	2.0
Barbados	2012	MICS	>99	>99	1.0	94	98	1.0	<1	<1	17.4	85	91	1.1	-	-	-
Belarus	2012	MICS	>99	>99	1.0	93	99	1.1	<1	<1	-	-	-	-	-	-	-
Belize	2016	MICS	95	>99	1.1	72	96	1.3	<1	8	64.9	82	94	1.1	-	-	-
Benin	2018	DHS	33	98	3.0	4	34	9.2	6	88	14.0	1	29	20.3	<1	15	60.2
Bhutan	2010	MICS	68	>99	1.5	31	80	2.6	<1	6	29.9	49	94	1.9	-	-	-
Bolivia (Plurinational State of)	2016	EDS	78	99	1.3	36	61	1.7	3	47	14.3	13	39	3.0	-	-	-
Bosnia and Herzegovina	2012	MICS	88	>99	1.1	89	>99	1.1	<1	<1	-	90	98	1.1	-	-	-
Burkina Faso	2018	MIS	14	81	5.8	7	57	8.2	8	70	9.0	-	-	-	-	-	-
Burundi	2017	DHS	37	93	2.5	16	83	5.1	<1	10	36.5	1	23	18.0	-	-	-
Cambodia	2014	DHS	53	96	1.8	25	87	3.5	4	69	16.3	30	98	3.3	-	-	-
Cameroon	2019	DHS	40	97	2.4	27	68	2.5	<1	16	00	11	77	6.9	6	40	6.2
Central African Republic	2019	MICS	16	61	3.8	4	25	6.7	3	49	18.0	4	41	9.4	<1	9	21.4
Chad	2019	MICS	5	94	19.2	3	51	15.8	4	87	24.0	18	50	2.8	<1	25	40.0
Colombia	2015	DHS	88	>99	1.1	80	93	1.2	<1	13	00	-	-	-	-	-	-
Comoros	2012	DHS	81	87	1.1	21	39	1.9	<1	3	11.0	6	24	4.4	-	-	-
Congo	2015	MICS	20	90	4.5	2	33	20.1	<1	38	47.8	18	66	3.6	<1	14	33.1
Costa Rica	2018	MICS	98	>99	1.0	92	98	1.1	<1	<1	-	83	91	1.1	63	78	1,2
Côte d'Ivoire	2016	MICS	50	99	2.0	12	60	5.1	1	50	38.4	6	40	6.3	-	-	-
Cuba	2019	MICS	93	>99	1.1	66	99	1.5	<1	3	43.1	75	>99	1.3	59	98	1.7
Democratic Republic of the Congo	2018	MICS	2	97	49.8	<1	36	817.1	<1	41	91.6	<1	56	116.8	<1	13	œ
Dominican Republic	2014	MICS	93	99	1.1	70	89	1.3	<1	12	21.0	29	65	2.2	-	-	-
Egypt	2015	DHS	>99	>99	1.0	90	>99	1.1	<1	<1	-	-	-	-	-	-	-
El Salvador	2014	MICS	92	>99	1.1	82	92	1.1	<1	5	37.9	87	91	1.0	-	-	-
Eswatini	2014	MICS	52	79	1.5	51	56	1.1	4	25	6.4	10	25	2.5	-	-	-

							INEQ	UALIT	IES B	BY WE	EALTH	QUIN	TILE				
				c drin water		sa	Basic nitati		de	Ope efecat		Basi	c hyg	iene	Bas	ic W/	ASH
COUNTRIES, AREAS AND TERRITORIES	Year	Survey Name	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: poorest to richest	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: richest to poorest
Ethiopia	2016	DHS	27	84	3.1	4	18	5.2	55	7	7.5	1	21	14.9	-	-	-
Gabon	2012	DHS	55	96	1.8	15	86	5.9	6	<1	115.1	-	-	-	-	-	-
Gambia	2020	DHS	82	98	1.2	21	87	4.2	3	<1	-	4	20	4.8	1	28	19.2
Georgia	2018	MICS	91	>99	1.1	80	>99	1.3	<1	<1	-	82	98	1.2	56	95	1.7
Ghana	2018	MICS	54	99	1.8	12	47	3.8	46	2	29.9	28	60	2.2	1	34	29.3
Guatemala	2015	DHS	84	>99	1.2	39	92	2.3	18	<1	235.5	51	92	1.8	-	-	-
Guinea	2018	DHS	43	92	2.1	7	57	7.8	32	<1	-	13	42	3.3	<1	24	43.0
Guinea-Bissau	2019	MICS	45	91	2.0	2	48	22.8	28	<1	1063.8	10	22	2.3	<1	12	67.8
Guyana	2020	MICS	86	96	1.1	80	96	1.2	2	<1	-	68	91	1.3	41	76	1.8
Haiti	2017	DHS	28	95	3.4	10	68	7.0	57	1	48.7	13	40	3.2	-	-	-
Honduras	2012	DHS	94	>99	1.1	56	87	1.5	27	<1	68.3	75	90	1.2	-	-	-
India	2016	DHS	87	98	1.1	11	91	8.4	83	2	54.1	25	92	3.7	-	-	-
Indonesia	2017	DHS	74	99	1.3	44	97	2.2	26	<1	36.0	-	-	-	-	-	-
Iraq	2018	MICS	96	>99	1.0	91	99	1.1	<1	<1	-	88	>99	1.1	76	98	1.3
Jamaica	2011	MICS	88	98	1.1	76	99	1.3	<1	<1	-	53	82	1.6	-	-	-
Jordan	2018	DHS	>99	>99	1.0	96	>99	1.0	<1	<1	-	-	-	-	-	-	-
Kazakhstan	2015	MICS	98	>99	1.0	96	99	1.0	<1	<1	-	98	>99	1.0	-	-	-
Kenya	2015	MIS	38	94	2.5	10	58	5.5	40	<1	206.0	-	-	-	-	-	-
Kiribati	2019	MICS	56	99	1.7	25	78	3.1	64	1	50.9	44	71	1.6	6	59	10.2
Kyrgyzstan	2018	MICS	88	>99	1.1	98	99	1.0	-	-	-	91	>99	1.1	78	93	1.2
Lao People's Democratic Republic	2017	MICS	61	>99	1.6	30	98	3.3	65	<1	824.9	21	85	4.0	8	81	10.4
Lesotho	2018	MICS	61	96	1.6	35	66	1.9	57	<1	103.5	3	24	7.4	<1	16	25.9
Liberia	2020	DHS	55	88	1.6	2	59	24.6	70	4	15.6	<1	10	17.6	<1	7	194.0
Madagascar	2018	MICS	17	84	4.9	<1	24	80.4	67	5	13.5	5	43	9.2	<1	14	600.9
Malawi	2016	DHS	55	82	1.5	16	40	2.4	13	<1	26.0	3	22	6.5	-	-	-
Maldives	2017	DHS	99	>99	1.0	97	99	1.0	<1	<1	-	86	97	1.1	-	-	-
Mali	2018	DHS	42	96	2.3	17	56	3.3	28	<1	78523.6	5	31	6.2	1	18	16.5
Mauritania	2015	MICS	34	95	2.8	4	87	19.6	85	<1	531.0	30	78	2.6	-	-	-
Mexico	2015	MICS	94	>99	1.1	81	>99	1.2	4	<1	-	80	97	1.2	-	-	-
Mongolia	2018	MICS	42	99	2.4	33	97	2.9	38	<1	-	63	98	1.5	13	93	7.4
Montenegro	2018	MICS	99	99	1.0	87	>99	1.1	<1	<1	-	>99	>99	1.0	85	98	1.2
Mozambique	2018	MIS	35	95	2.7	15	79	5.2	49	<1	51.7	-	-	-	-	-	-
Myanmar	2016	DHS	67	95	1.4	22	83	3.7	30	<1	324.1	57	95	1.7	11	76	6.9
Namibia	2013	DHS	51	>99	1.9	4	87	24.6	92	<1	422.7	17	79	4.5	-	-	-
Nepal	2019	MICS	88	97	1.1	80	77	1.0	9	<1	270.0	49	98	2.0	34	70	2.0
Nicaragua	2011	ENDESA	51	98	1.9	43	91	2.1	33	<1	90.3	-	-	-	-	-	-
Niger	2006	DHS	31	70	2.2	2	37	24.1	93	25	3.7	4	27	7.0	-	-	-

						IN	EQUA	LITIE	S BY	SUBN		IAL R	EGIC	N			
				c drin			Basic			Ope		Basi	c hyg	iene	Bas	ic W/	ASH
				water		sa	nitati	on	de	efecat	ion		<i>7</i> e				
COUNTRIES, AREAS AND TERRITORIES	Year	Survey Name	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest
Ethiopia	2016	DHS	34	98	2.9	2	30	16.1	1	71	61.2	2	38	15.5	-	-	-
Gabon	2012	DHS	53	95	1.8	26	44	1.6	<1	12	403.7	-	-	-	-	-	-
Gambia	2020	DHS	79	>99	1.3	18	63	3.5	<1	10	00	4	16	4.5	2	15	7.1
Georgia	2018	MICS	85	>99	1.2	76	97	1.3	<1	<1	-	84	97	1.2	62	89	1.4
Ghana	2018	MICS	50	98	1.9	8	25	3.0	7	67	9.9	19	55	2.8	2	19	9.2
Guatemala	2015	DHS	81	>99	1.2	51	78	1.5	<1	15	20.0	59	88	1.5	-	-	-
Guinea	2018	DHS	50	95	1.9	17	44	2.5	<1	40	00	4	44	11.7	1	18	14.3
Guinea-Bissau	2019	MICS	38	97	2.6	5	40	7.7	<1	32	00	<1	29	380.2	<1	11	00
Guyana	2020	MICS	64	>99	1.5	69	95	1.4	<1	9	œ	58	86	1.5	38	70	1.8
Haiti	2017	DHS	42	92	2.2	21	49	2.4	7	48	6.6	14	32	2.3	-	-	_
Honduras	2012	DHS	<1	99	00	21	83	3.9	2	42	26.0	47	90	1.9	-	-	-
India	2016	DHS	63	>99	1.6	25	>99	4.0	<1	70	00	29	96	3,3	-	-	-
Indonesia	2017	DHS	70	>99	1.4	56	91	1.6	2	26	15,2	-	-	-	-	_	-
Iraq	2018	MICS	92	>99	1.1	87	>99	1.1	<1	<1	-	88	>99	1.1	75	98	1.3
Jamaica	2011	MICS	91	>99	1.1	84	88	1.0	<1	<1	2.8	63	74	1.2	-	_	-
Jordan	2018	DHS	98	>99	1.0	95	>99	1.1	<1	<1		-	-	-	-	_	-
Kazakhstan	2015	MICS	95	>99	1.1	88	>99	1.1	<1	<1	-	96	>99	1.0	-	-	-
Kenya	2015	MIS	42	98	2.3	20	56	2.7	<1	26	00	-	-	-	-	-	_
Kiribati	2019	MICS	55	96	1.7	32	51	1.6	22	55	2.5	51	59	1.2	14	31	2.2
Kyrgyzstan	2018	MICS	72	>99	1.4	95	>99	1.0	_	-	-	84	>99	1.2	65	97	1.5
Lao People's Democratic Republic	2017	MICS	63	>99	1.6	33	96	2.9	<1	65	94.7	17	87	5.1	9	84	9.4
Lesotho	2018	MICS	65	84	1.3	44	54	1.2	7	44	6.2	3	12	3.7	1	6	4.6
Liberia	2020	DHS	70	79	1.1	9	35	3.8	21	62	2.9	<1	6	11.3	<1	2	11.7
Madagascar	2018	MICS	11	74	6.9	<1	18	30.1	5	85	16.6	3	36	12.3	<1	11	41.5
Malawi	2016	DHS	61	66	1.1	18	31	1.8	4	6	1.4	8	15	1.7	-	-	-
Maldives	2017	DHS	99	>99	1.0	92	>99	1.1	<1	<1	-	85	97	1.1	-	-	-
Mali	2018	DHS	32	96	3.0	15	47	3.2	<1	61	1810.1	7	27	3.9	3	12	4.7
Mauritania	2015	MICS	42	>99	2.4	12	91	7.4	1	79	57.6	14	91	6.4	-	-	-
Mexico	2015	MICS	96	>99	1.0	91	97	1.1	<1	1	3.1	86	92	1.1	-	-	-
Mongolia	2018	MICS	61	95	1.5	48	78	1.6	<1	23	1471.6	72	85	1.2	35	63	1.8
Montenegro	2018	MICS	98	>99	1.0	89	98	1.1	<1	<1	2.7	>99	>99	1.0	89	97	1.1
Mozambique	2018	MIS	34	>99	3.0	11	86	8.0	<1	52	235.6	-	-	-	-	-	-
Myanmar	2016	DHS	64	94	1.5	29	87	3.1	2	54	27.2	58	98	1.7	16	65	4.1
Namibia	2013	DHS	53	98	1.9	14	64	4.6	12	83	6.8	18	72	4.0	-	-	-
Nepal	2019	MICS	89	97	1.1	70	85	1.2	<1	16	20.3	50	85	1.7	40	65	1.6
Nicaragua	2011	ENDESA	57	93	1.6	-	-	-	-	-	-	-	-	-	-	-	-
Niger	2006	DHS	26	91	3.5	1	32	25.2	11	93	8.3	4	31	8.1	-	-	-
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COUNTRIES, AREAS AND TERRITORIES	Year	Survey Name	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: poorest to richest	Poorest	Richest	Ratio: richest to poorest	Poorest	Richest	Ratio: richest to poorest
Nigeria	2018	DHS	43	95	2.2	12	65	5.3	42	3	12.3	8	60	7.3	<1	39	96.1
North Macedonia	2019	MICS	98	>99	1.0	85	>99	1.2	<1	<1	-	99	>99	1.0	83	99	1.2
occupied Palestinian territory*	2020	MICS	98	>99	1.0	96	99	1.0	<1	<1	-	84	98	1.2	77	93	1.2
Pakistan	2018	DHS	78	98	1.2	30	97	3.3	45	<1	-	17	94	5.5	-	-	-
Panama	2013	MICS	87	>99	1.2	53	>99	1.9	10	<1	-	-	-	-	-	-	-
Papua New Guinea	2018	DHS	22	89	4.0	10	63	6.4	22	5	4.4	7	69	10.4	<1	42	124.3
Paraguay	2016	MICS	81	>99	1.2	47	98	2.1	3	<1	-	56	94	1.7	-	-	-
Peru	2016	ENDES	77	>99	1.3	49	98	2.0	23	<1	178.2	-	-	-	-	-	-
Philippines	2017	DHS	83	>99	1.2	54	97	1.8	17	<1	-	70	94	1.4	35	90	2.6
Republic of Moldova	2012	MICS	71	96	1.3	53	90	1.7	<1	<1	-	73	96	1.3	-	-	-
Rwanda	2015	DHS	41	80	2.0	40	64	1.6	9	<1	44.4	<1	15	18.4	-	-	-
Saint Lucia	2012	MICS	97	>99	1.0	72	99	1.4	7	<1	-	70	96	1.4	-	-	-
Sao Tome and Principe	2019	MICS	84	94	1.1	15	81	5.6	74	11	6.6	43	77	1.8	5	58	11.1
Senegal	2019	DHS	50	98	2.0	22	90	4.1	41	<1	3001.1	11	44	4.1	2	42	18.5
Serbia	2019	MICS	98	>99	1.0	95	>99	1.0	<1	<1	-	-	-	-	-	-	-
Sierra Leone	2019	DHS	38	74	2.0	4	45	10.3	40	2	21.8	14	27	2.0	<1	13	144.8
Somalia	2017	SHFS	42	96	2.3	4	36	9.0	67	<1	2187.1	-	-	-	-	-	-
South Africa	2016	DHS	68	>99	1.5	59	97	1.7	8	<1	-	4	80	18.4	-	-	-
Sudan	2014	MICS	36	96	2.7	7	78	10.8	54	<1	124.6	16	49	3.0	-	-	-
Suriname	2018	MICS	94	>99	1.1	64	98	1.5	10	<1	-	53	90	1.7	30	66	2.2
Tajikistan	2017	DHS	72	98	1.4	98	95	1.0	<1	<1	-	53	91	1.7	-	-	-
Thailand	2019	MICS	99	>99	1.0	93	98	1.1	<1	<1	-	79	95	1.2	68	84	1.2
Timor-Leste	2016	DHS	61	96	1.6	24	86	3.6	55	<1	251.9	12	54	4.4	3	44	12.9
Тодо	2017	MICS	40	95	2.3	3	55	17.6	79	4	18.1	7	36	5.1	<1	21	00
Tonga	2019	MICS	>99	>99	1.0	82	98	1.2	<1	<1	-	43	90	2.1	36	87	2.4
Trinidad and Tobago	2011	MICS	98	>99	1.0	86	99	1.2	<1	<1	-	77	94	1.2	-	-	-
Tunisia	2018	MICS	88	98	1.1	91	>99	1.1	4	<1	-	79	>99	1.3	56	85	1.5
Turkey	2013	DHS	96	>99	1.0	86	>99	1.2	<1	<1	-	-	-	-	-	-	-
Turkmenistan	2016	MICS	98	>99	1.0	99	98	1.0	<1	<1	-	98	>99	1.0	-	-	-
Uganda	2016	DHS	43	82	1.9	5	46	9.1	21	<1	135.3	10	52	5.1	-	-	-
Ukraine	2012	MICS	98	99	1.0	96	>99	1.0	<1	<1	-	-	-	-	-	-	-
United Republic of Tanzania	2016	DHS	25	87	3.5	2	57	33.5	27	<1	997.4	23	77	3.4	-	-	-
Uruguay	2013	MICS	99	>99	1.0	87	97	1.1	2	<1	-	-	-	-	-	-	-
Viet Nam	2014	MICS	80	>99	1.2	37	98	2.7	23	<1	-	62	98	1.6	-	-	-
Yemen	2013	DHS	32	96	3.0	12	95	7.8	60	2	28.7	20	76	3.9	-	-	-
Zambia	2018	DHS	41	94	2.3	21	64	3.0	22	<1	163.3	11	46	4.1	<1	35	57.4
Zimbabwe	2019	MICS	36	94	2.6	12	54	4.6	55	<1	-	31	70	2.2	2	40	20.2
	/				2.0										_		_ /

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				water		sa	nitati	on	de	efecat	ion	Basi	c hyg	iene	Das		431
COUNTRIES, AREAS AND TERRITORIES	Year	Survey Name	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest	Lowest	Highest	Ratio: highest to lowest
Nigeria	2018	DHS	57	87	1.5	24	48	2.0	9	51	5.5	8	53	7.0	3	27	7.8
North Macedonia	2019	MICS	98	>99	1.0	87	99	1.1	<1	<1		98	>99	1.0	84	97	1.2
occupied Palestinian territory*	2020	MICS	98	>99	1.0	90	>99	1.1	<1	2	00	89	97	1.1	78	96	1.2
Pakistan	2018	DHS	62	97	1.6	47	95	2.0	<1	21	134.8	31	78	2.5	-	-	-
Panama	2013	MICS	47	>99	2.1	<1	90	164.5	<1	56	00	-	-	-	-	-	-
Papua New Guinea	2018	DHS	36	62	1.7	22	29	1.3	5	44	8.4	19	41	2.2	6	16	2.5
Paraguay	2016	MICS	81	>99	1.2	61	93	1.5	<1	4	115.4	68	87	1.3	_	_	_
Peru	2016	ENDES	66	99	1.5	54	90	1.7	<1	25	33.7	-	-	-	-	-	-
Philippines	2017	DHS	72	>99	1.4	36	87	2.4	<1	22	103.4	57	94	1.7	22	76	3.5
Republic of Moldova	2012	MICS	77	98	1.3	63	86	1.4	<1	<1	-	83	95	1.1		-	-
Rwanda	2012	DHS	42	80	1.9	46	65	1.4	1	5	4.8	2	15	9.9	-	_	-
Saint Lucia	2012	MICS	-	-	-	-	-	-	÷.	-	-	-	-	-	-	-	-
Sao Tome and Principe	2012	MICS	76	95	1.2	34	56	1.6	30	58	2.0	39	62	1.6	12	33	2.6
Senegal	2017	DHS	20	>99	5.1	26	76	2.9	<1	33	443.6	1	58	45.7	1	26	25.1
Serbia	2019	MICS	20 97	>99	1.0	97	>99	1.0	<1	<1	440.0	-	50	-	-	20	-
Sierra Leone	2017	DHS	41	72	1.7	12	37	3.2	3	41	14.4	5	31	6.6	<1	6	7.0
Somalia	2017	SHFS	36	98	2.7	3	44	15.6	<1	71	∞	5	51	0.0		Ū	7.0
South Africa	2017	DHS	71	>99	1.4	63	85		<1	5	11.9	11	- 74				
Sudan								1.4						6.6	-	-	-
Suriname	2014	MICS	33	95	2.9	10	79	8.2	2	45	25.9	2	49	32.1	-	-	-
Tajikistan	2018	MICS	84	>99	1.2	42	97	2.3	<1	31	00	53	85	1.6	19	66	3.5
Thailand	2017	DHS	69	>99	1.4	92	98	1.1	<1	<1	-	51	92	1.8	-	-	-
	2019	MICS	97	>99	1.0	96	99	1.0	<1	<1	-	84	90	1.1	55	83	1.5
Timor-Leste	2016	DHS	65	95	1.5	31	73	2.4	4	49	13.1	9	39	4.4	6	32	5.3
Togo	2017	MICS	44	96	2.2	10	46	4.8	3	73	22.3	8	29	3.8	<1	16	24.4
Tonga	2019	MICS	97	>99	1.0	81	93	1.1	<1	<1	-	47	74	1.6	43	70	1.6
Trinidad and Tobago	2011	MICS	98	>99	1.0	92	97	1.1	<1	<1	-	77	96	1.2	-	-	-
Tunisia	2018	MICS	88	99	1.1	93	99	1.1	<1	3	00	85	98	1.2	61	82	1.3
Turkey	2013	DHS	97	99	1.0	91	98	1.1	<1	<1	-	-	-	-	-	-	-
Turkmenistan	2016	MICS	98	>99	1.0	98	>99	1.0	<1	<1	-	98	>99	1.0	-	-	-
Uganda	2016	DHS	37	98	2.6	2	38	19.1	<1	67	498.1	4	60	13.9	-	-	-
Ukraine	2012	MICS	98	>99	1.0	94	99	1.1	<1	<1	-	-	-	-	-	-	-
United Republic of Tanzania	2016	DHS	26	97	3.7	7	75	10.8	<1	45	1847.8	13	92	7.3	-	-	-
Uruguay	2013	MICS	97	>99	1.0	94	95	1.0	<1	<1	26.0	-	-	-	-	-	-
Viet Nam	2014	MICS	84	>99	1.2	54	94	1.7	<1	22	284.1	71	95	1.3	-	-	-
Yemen	2013	DHS	38	>99	2.6	15	98	6.6	<1	47	473.7	13	80	6.1	-	-	-
Zambia	2018	DHS	36	92	2.5	5	47	9.4	<1	50	57.8	5	34	6.3	3	15	6.0
Zimbabwe	2019	MICS	51	98	1.9	24	56	2.4	<1	60	00	25	70	2.8	7	39	5.2

\*Including east Jerusalem. UNICEF reports and the Global SDG Indicators Database refer to 'State of Palestine'.

## Annex 8:

## REGIONAL DRINKING WATER ESTIMATES

		s)			NA	TION	IAL			R	RURA	L			U	RBA	N	
COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change (basic)	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change (basic)	At least basic	Limited (more than 30 mins)	Unimproved	Surface water	Annual rate of change (basic)
SDG REGIONS																		
Australia and New Zealand	2015 2020	28 547 30 322	86 86	>99 >99	<1 <1	<1 <1	<1 <1	0.01	>99 >99	<1 <1	<1 <1	<1 <1	0.04	>99 >99	<1 <1	<1 <1	<1 <1	0.01
Central and Southern Asia	2015 2020	1 896 327 2 014 709		89 91	4 4	6 4	1 <1	0.45	86 89	5 5	7 5	2 1	0.58	94 95	3 3	3 2	<1 <1	0.05
Eastern and South-Eastern Asia	2015 2020	2 279 490 2 346 709		92 94	<1 <1	6 4	1 <1	0.64	85 89	2 2	12 8	2 1	0.92	97 98	<1 <1	2 2	<1 <1	0.05
Latin America and the Caribbean	2015 2020	623 934 653 962		96 97	<1 <1	2 1	1 <1	0.34	86 90	2 1	7 4	6 4	0.93	99 >99	<1 <1	1 <1	<1 <1	0.12
Europe and Northern America	2015 2020	1 100 090 1 116 506		99 >99	<1 <1	<1 <1	<1 <1	0.03	97 98	<1 <1	2 1	<1 <1	0.12	>99 >99	<1 <1	<1 <1	<1 <1	-0.00
Oceania	2015 2020	11 312 12 356	23	55 57	2 2	17 18	26 23	0.31	44 47	2 3	21 22	33 29	0.39	92 93	1 <1	4 4	2 3	0.06
Sub-Saharan Africa	2015 2020	958 577 1 094 366		60 65	12 13	18 16	10 7	0.99	44 49	15 17	26 23	15 11	0.94	84 87	8 7	6 5	2 1	0.50
Northern Africa and Western Asia	2015 2020	481 520 525 869		90 92	5 6	3 1	1 1	0.41	82 85	9 10	6 3	3 3	0.66	96 96	3 3	<1 <1	<1 <1	0.14
OTHER REGIONAL GROUPINGS																		
Landlocked Developing Countries	2015 2020	473 817 533 143	30 31	64 68	13 15	16 13	7 4	0.79	53 57	16 19	22 18	9 6	0.91	90 91	6 6	4 2	<1 <1	0.22
Least Developed Countries	2015 2020	940 860 1 057 131		63 67	12 13	17 14	8 6	0.81	53 57	14 16	22 19	11 9	0.74	83 85	9 9	6 5	2 <1	0.47
Small Island Developing States	2015 2020	66 523 69 410	61	83 83	3 3	9 9	5 5	0.14	63 64	5 5	19 19	13 12	0.16	95 95	2 2	2 2	<1 <1	-0.01
Fragile contexts	2015 2020	1 600 667 1 782 109		71 74	9 9	13 11	7 5	0.67	59 63	11 12	19 17	11 9	0.70	88 90	6 6	4 4	1 <1	0.28
INCOME GROUPINGS																		
Low income	2015 2020	603 234 686 089		55 59	16 18	21 17	9 6	0.88	42 47	18 21	27 23	12 9	0.93	81 83	11 12	6 5	1 <1	0.36
Lower-middle income	2015 2020	2 750 658 2 954 195		85 88	5 5	7 5	3 2	0.54	81 84	5 5	9 7	4 4	0.67	93 94	3 3	3 3	<1 <1	0.15
Upper-middle income	2015 2020	2 834 637 2 936 970		93 95	<1 <1	5 3	<1 <1	0.55	86 90	2 2	11 7	2 <1	0.90	98 98	<1 <1	2 1	<1 <1	0.05
High income	2015 2020	1 188 497 1 214 601		>99 >99	<1 <1	<1 <1	<1 <1	0.04	99 >99	<1 <1	<1 <1	<1 <1	0.13	>99 >99	<1 <1	<1 <1	<1 <1	0.02
WORLD	2015 2020	7 379 797 7 794 799		88 90	3 4	6 5	2 2	0.42	79 82	5 6	11 9	4 3	0.61	96 96	2 2	2 2	<1 <1	0.05

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					of pop wate							ulatio er sup			roport g impi				
		using	5 mp	loved	wate	i sup	plies	using	5 mp	loved	wate	a sup	plies	using	gimpi	ovec	Wate	i sup	plies
COUNTRY, AREA OR TERRITORY	Year	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped	Safely managed	Accessible on premises	Available when needed	Free from contamination	Piped	Non-piped
SDG REGIONS																			
Australia and New Zealand	2015	-	98	96	-	93	7	-	90	96	-	86	14	97	>99	97	99	94	6
	2020 2015	- 58	98 64	96 71	61	>99 43	<1 51	- 56	90 56	96 66	61	>99 29	<1 62	97 62	>99 79	97 81	>99 62	>99 67	<1 30
Central and Southern Asia	2020	62	69	68	68	42	53	62	62	63	70	29	65	63	80	77	63	65	33
Eastern and South-Eastern Asia	2015	-	86 89	88	-	67 73	25 23	-	78 83	79 84	-	46 52	41 39	92 93	92 93	95 95	92 95	85 86	13
	2020 2015	- 75	89 92	90 78	77	90	6	- 49	76	65	49	52 72	16	93 82	93 96	95 82	95 84	80 95	12 4
Latin America and the Caribbean	2020	75	94	78	79	92	6	53	82	66	53	77	15	81	97	81	86	96	3
Europe and Northern America	2015	95	95	96	98	95	4	-	90	93	-	86	12	97	97	97	99	98	2
	2020 2015	96 -	96 40	97 34	- 98	96 34	3 22	-	91 28	95 29	-	89 22	9 24	97 53	97 81	97 53	99 80	98 78	1 16
Oceania	2020	-	44	36	-	33	27	-	30	30	-	21	28	53	90	53	78	72	21
Sub-Saharan Africa	2015	27	27	54	33	33	38	11	11	47	20	18	41	51	51	66	53	58	34
	2020 2015	30 77	31 84	59 78	36 78	35 82	43 14	13	13 70	52 69	-	20 70	46 21	54 82	56 92	68 83	54 82	56 89	38 10
Northern Africa and Western Asia	2020	79	86	79	79	83	14	-	74	72	-	73	21	82	92	84	82	89	10
OTHER REGIONAL GROUPINGS																			
Landlocked Developing Countries	2015	33	34	63	38	40	37	19	19	58	26	25	44	66	70	73	66	77	19
1.0	2020 2015	35 33	38 35	67 61	41 37	43 30	40 45	22 25	22 25	64 58	29 30	28 17	48 50	66 52	74 58	75 68	66 52	77 58	20 34
Least Developed Countries	2010	37	40	64	40	33	47	28	28	62	32	19	54	55	63	69	55	60	34
Small Island Developing States	2015	-	68	69	-	65	21	-	46	52	-	42	27	-	82	80	-	80	18
	2020	-	68	69	-	62	24	-	47	52	-	40	29	-	81	80 72	-	76 60	21 34
Fragile contexts	2015 2020	41 43	46 49	64 67	41 43	36 36	44 47	31 33	33 35	59 62	31 33	19 20	51 54	55 55	66 67	72 73	55 55	58	38
INCOME GROUPINGS																			
Low income	2015	25	25	57	32	35	36	12	12	52	21	20	41	54	54	69	58	66	26
	2020 2015	29 55	29 61	62 69	36 56	37 42	40 48	14 52	14 52	57 64	24 55	22 29	46 57	58 58	58 74	71 79	58 58	67 64	27 32
Lower middle income	2015	58	65	68	50 61	42 43	48 50	5∠ 58	52 58	62	55 63	29 30	60	58	76	79	58 58	62	32 35
Upper middle income	2015	75	88	86	75	76	18	-	79	78	-	55	32	90	93	90	90	89	9
	2020	77	90	87	77	81	15	-	84	82	-	62	30	90 07	93	90	94	90	8
High income	2015 2020	97 98	99 >99	97 98	99 >99	97 98	2 2	-	96 97	95 97	-	93 95	6 5	97 98	>99 >99	97 98	>99 >99	98 99	1 1
WORLD	2015	70	74	78	70	64	28	53	59	68	53	40	44	85	88	87	85	84	14
	2020	74	77	78	75	65	28	60	62	68	60	42	46	86	88	86	86	83	15

## Annex 9:

## REGIONAL SANITATION ESTIMATES

COUNTRY, AREA OR TERRITORY		iousands)	n		I	NAT	ION	AL				RU	IRA	L				UR	BAI	N	
	Year	Population (thousands)	% urban	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change (basic)	Annual rate of change (open defecation)	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change (basic)	Annual rate of change (open defecation)	At least basic	Limited (shared)	Unimproved	Open defecation	Annual rate of change (basic)	Annual rate of change (open defecation)
SDG REGIONS																					
Australia and New Zealand	2015 2020	28 547 30 322	86 86	>99 >99	<1 <1	<1 <1	<1 <1	-0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Central and Southern Asia	2015 2020	1 896 327 2 014 709	35 37	59 71	11 12	7 5	23 12	2.38	-2.34	52 67	8 9	8 6	32 18	2.83	-2.86	73 79	17 17	5 3	5 <1	1.18	-0.89
Eastern and South-Eastern Asia	2015 2020	2 279 490 2 346 709	56 61	84 91	4 3	9 4	3 2	1.54	-0.27	75 86	5 4	15 7	5 3	1.94	-0.37	91 95	4 3	4 2	<1 <1	0.73	-0.07
Latin America and the Caribbean	2015 2020	623 934 653 962	80 81	86 89	4 4	6 5	3 2	0.75	-0.41	67 73	5 6	16 15	11 6	1.24	-1.17	90 93	4 4	4 3	1 <1	0.51	-0.14
Europe and Northern America	2015 2020	1 100 090 1 116 506	76 77	97 98	<1 <1	2 2	<1 <1	0.09	-0.00	93 94	<1 <1	6 6	<1 <1	0.20	-0.00	99 99	<1 <1	<1 <1	<1 <1	0.03	-0.00
Oceania	2015 2020	11 312 12 356	23 23	35 35	4 5	47 46	14 15	-0.01	0.11	24 24	3 4	56 54	18 19	0.04	0.14	74 71	8 9	16 17	3 3	-0.17	0.01
Sub-Saharan Africa	2015 2020	958 577 1 094 366	39 42	30 33	18 19	31 31	22 18	0.50	-0.72	21 23	9 9	38 41	31 27	0.33	-0.79	44 46	31 32	18 17	7 5	0.49	-0.21
Northern Africa and Western Asia	2015 2020	481 520 525 869	62 63	87 88	4 3	6 6	4 3	0.51	-0.32	74 77	4 4	12 12	9 7	0.67	-0.58	94 95	3 2	2 2	<1 <1	0.28	-0.08
OTHER REGIONAL GROU	UPINGS	5																			
Landlocked Developing Countries	2015 2020	473 817 533 143	30 31	41 43	10 11	28 30	21 16	0.48	-1.05	32 35	6 7	33 37	29 22	0.55	-1.30	61 62	21 22	15 14	3 2	0.08	-0.23
Least Developed Countries	2015 2020	940 860 1 057 131	32 35	33 37	15 16	32 31	20 16	0.78	-0.98	27 31	9 9	37 38	27 22	0.77	-1.07	46 48	27 29	22 20	5 4	0.50	-0.35
Small Island Developing States	2015 2020	66 523 69 410	61 61	68 68	9 9	15 15	8 8	0.12	-0.15	47 44	7 7	30 32	16 16	0.05	-0.24	83 83	10 10	5 5	2 2	0.02	-0.01
Fragile contexts	2015 2020	1 600 667 1 782 109	40 43	45 48	14 15	25 24	16 13	0.75	-0.74	34 37	9 10	32 32	25 20	0.80	-0.93	61 62	21 22	15 13	4 3	0.36	-0.18
INCOME GROUPINGS																					
Low income	2015 2020	603 234 686 089	32 34	29 30	12 14	35 37	24 19	0.34	-0.95	21 23	7 8	40 44	32 26	0.32	-1.11	45 46	24 26	25 24	6 4	0.11	-0.27
Lower-middle income	2015 2020	2 750 658 2 954 195	38 40	58 68	12 13	10 8	19 11	1.86	-1.79	51 63	9 9	12 10	28 17	2.26	-2.24	70 75	19 19	6 4	5 2	0.85	-0.63
Upper-middle income	2015 2020	2 834 637 2 936 970	63 67	85 91	4 3	9 4	2 1	1.37	-0.25	76 85	4 4	16 8	4 3	1.89	-0.38	91 94	4 3	4 2	<1 <1	0.67	-0.08
High income	2015 2020	1 188 497 1 214 601	80 81	>99 >99	<1 <1	<1 <1	<1 <1	0.04	-0.00	98 98	<1 <1	2 2	<1 <1	0.08	-0.00	>99 >99	<1 <1	<1 <1	<1 <1	0.02	-0.00
WORLD	2015 2020	7 379 797 7 794 799	54 56	73 78	7 7	10 8	10 6	1.13	-0.76	58 66	6 7	16 14	19 13	1.55	-1.14	85 88	8 8	5 3	2 <1	0.43	-0.19

			NATION									RUF	RAL						URB	AN		
		of usi sanit	Propo popu ng im ation luding	ulatio prov facil	on red lities	of p using sanitat	oportic opulat g impro tion fac ding sh	ion oved cilities	of usi sanit	Propo f popu ing in tation ludin	ulatio nprov n facil	on red lities	of µ usin sanita	oportio oopula g impro tion fa ding sh	tion oved cilities	of usi sanit	Propo f popu ing im tation luding	ilatio prov facil	on red lities	of p using sanitat	oportic opulat g impro tion fac ding sh	ion oved cilities
COUNTRY, AREA OR TERRITORY	Year	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections	Safely managed	Disposed in situ	Emptied and treated	Wastewater treated	Latrines and other	Septic tanks	Sewer connections
SDG REGIONS																						
Australia and New Zealand	2015 2020	71 76	-	-	71 76	<1 <1	12 12	88 88	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central and Southern Asia	2015 2020	38 47	33 40	-	5 6	31 38	26 31	13 15	38 50	38 49	-	<1 <1	37 48	22 26	1 2	38 41	24 25	-	14 16	20 20	35 39	34 38
Eastern and South-Eastern Asia	2015 2020	49 60	10 11	-	39 49	16 16	25 27	47 52	32 43	13 16	-	19 27	30 30	26 31	23 29	62 72	8 8	-	54 63	6 6	24 25	65 67
Latin America and the Caribbean	2015 2020	28 34	-	-	28 34	10 9	17 17	63 67	-	-	-	7 9	25 25	31 35	17 19	33 40	-	-	33 40	6 6	14 13	74 78
Europe and Northern America	2015 2020	76 78	-	-	74 76	5 4	11 10	82 84	44 46	-	-	44 46	13 13	32 31	48 50	86 87	2 2	-	83 85	2 2	4 4	93 94
Oceania	2015 2020	-	-	-	5 5	14 13	16 16	9 10	-	-	-	1 1	15 14	10 10	2 3	-	-	-	17 17	11 11	38 36	33 34
Sub-Saharan Africa	2015 2020	19 21	19 21	-	-	32 32	9 12	7 7	18 19	18 19	-	-	27 28	2 3	1 1	22 23	22 23	-	-	39 38	19 24	17 16
Northern Africa and Western Asia	2015 2020	37 42	-	-	37 41	11 10	20 18	59 63	-	-	-	18 23	20 18	29 27	30 35	53 56	5 4	-	49 52	6 5	15 13	77 80
OTHER REGIONAL GR	OUPI	NGS																				
Landlocked Developing Countries	2015 2020	29 31	25 26	-	5 5	36 38	6 8	9 9	26 28	26 28	-	<1 <1	33 35	4 5	1 1	37 37	22 23	-	15 14	42 43	11 13	29 27
Least Developed Countries		24 26	24 26	-	-	32 35	12 14	4	23 25	22 25	-	<1	29 31	7	<1 <1	26 27	26 27	-	-	40 41	22 25	10 11
Small Island Developing States	2015 2020	-	-	-	16 16	22 21	25 26	31 30	-	-	-	2 2	30 27	18 18	6 7	25	-	-	25 25	17 17	29 31	47 45
Fragile contexts	2015 2020		25 26	-	6 7	31 33	14 16	13 14	25 28	25 28	-	-	30 33	10 12	3 3	37 38	23 24	-	13 14	34 33	19 22	28 28
INCOME GROUPINGS																						
Low income	2015 2020	17 18	17 18	-	-	29 31	6 7	7 6	16 17	16 17	-	-	23 26	2 3	2 2	19 20	19 20	-	-	40 41	13 15	17 15
Lower middle income	2015 2020		32 37	-	6 7	28 33	28 31	15 17	38 47	36 45	-	2 2	34 42	23 26	3 4	37 40	24 26	-	13 14	19 20	35 38	34 36
Upper middle income	2015 2020	44 54	7 7	-	37 47	16 15	18 20	54 60	27 37	9 10	-	19 28	32 31	23 27	25 31	54 62	5 5	-	48 57	7 7	16 17	72 74
High income	2015 2020	85 87	4 4	-	81 83	2 1	14 12	84 86	56 58	-	-	56 58	4 3	37 35	58 60	87 89	-	-	87 89	1 <1	8 7	90 92
WORLD	2015 2020	47 54	18 20	-	30 34	19 21	20 22	41 43	36 44	25 31	-	10 13	30 34	21 24	14 15	57 62	11 12	-	46 50	11 11	19 20	64 64

# Annex 10: **REGIONAL HYGIENE ESTIMATES**

					NATI	ONAL			RUI	RAL			URE	BAN	
REGION	Year	Population (thousands)	% urban	Basic	Limited (without water or soap)	No service	Annual rate of change (basic)	Basic	Limited (without water or soap)	No service	Annual rate of change (basic)	Basic	Limited (without water or soap)	No service	Annual rate of change (basic)
SDG REGIONS															
Australia and New Zealand	2015 2020	28 547 30 322	86 86	-	-	-	-	-	-	-	-	-	-	-	-
Central and Southern Asia	2015 2020	1 896 327 2 014 709	35 37	65 69	31 28	4 3	0.72	57 61	38 35	5 4	0.81	81 82	17 16	2 2	0.29
Eastern and South-Eastern Asia	2015 2020	2 279 490 2 346 709	56 61	-	-	-		-	-	-		-	-	-	-
Latin America and the Caribbean	2015 2020	623 934 653 962	80 81	-	-	-	-	60 -	-	- 20	-	-	-	-	-
Europe and Northern America	2015 2020	1 100 090 1 116 506	76 77	-	-	-	-	-	-	-		-	-	-	-
Oceania	2015 2020	11 312 12 356	23 23	36 36	29 28	35 36	0.01	27 27	31 30	42 43	0.01	66 -	-	-	-
Sub-Saharan Africa	2015 2020	958 577 1 094 366	39 42	25 26	40 40	35 34	0.22	17 18	43 44	39 39	0.14	37 37	35 36	28 27	0.07
Northern Africa and Western Asia	2015 2020	481 520 525 869	62 63	84 91	10 7	6 3	1.26	76 87	15 10	9 3	2.23	-	-	-	-
OTHER REGIONAL GROUPINGS															
Landlocked Developing Countries	2015 2020	473 817 533 143	30 31	35 35	37 37	28 28	-0.04	26 26	42 42	32 33	0.03	56 53	26 28	18 19	-0.44
Least Developed Countries	2015 2020	940 860 1 057 131	32 35	32 37	39 36	29 27	0.95	26 31	42 39	32 30	1.03	44 47	32 32	23 21	0.53
Small Island Developing States	2015 2020	66 523 69 410	61 61	53 52	24 28	23 20	-0.26	36 33	31 37	33 30	-0.59	64 63	19 23	17 14	-0.14
Fragile contexts		1 600 667 1 782 109	40 43	43 48	34 31	23 21	0.98	33 40	40 36	27 25	1.33	58 59	25 25	17 16	0.25
INCOME GROUPINGS															
Low income	2015 2020	603 234 686 089	32 34	28 31	39 38	34 31	0.69	20 24	42 40	38 36	0.74	43 44	33 34	25 22	0.33
Lower-middle income		2 750 658 2 954 195	38 40	63 65	28 27	9 9	0.39	56 58	35 33	10 9	0.55	75 74	18 18	8 8	-0.08
Upper-middle income		2 834 637 2 936 970	63 67	-	-	-	-	-	-	-	-	-	-	-	-
High income		1 188 497 1 214 601	80 81	-	-	-	-	-	-	-	-	-	-	-	-
WORLD		7 379 797 7 794 799	54 56	67 71	23 21	9 9	0.69	55 60	33 29	12 11	1.08	-	-	-	-



UN-Water coordinates the efforts of United Nations entities and international organizations working on water and sanitation issues. By doing so, UN-Water seeks to increase the effectiveness of the support provided to Member States in their efforts towards achieving international agreements on water and sanitation. UN-Water publications draw on the experience and expertise of UN-Water's Members and Partners.

#### **PERIODIC REPORTS:**

#### SDG 6 Progress Update 2021 - summary

This summary report provides an executive update on progress towards all of SDG 6 and identifies priority areas for acceleration. The report, produced by the UN-Water Integrated Monitoring Initiative for SDG 6, presents new country, region and global data on all the SDG 6 global indicators.

#### SDG 6 Progress Update 2021 - 8 reports, by SDG 6 global indicator

This series of reports provides an in-depth update and analysis of progress towards the different SDG 6 targets and identifies priority areas for acceleration: Progress on Drinking Water, Sanitation and Hygiene (WHO and UNICEF); Progress on Wastewater Treatment (WHO and UN-Habitat); Progress on Ambient Water Quality (UNEP); Progress on Water-use Efficiency (FAO); Progress on Level of Water Stress (FAO); Progress on Integrated Water Resources Management (UNEP); Progress on Transboundary Water Cooperation (UNECE and UNESCO); Progress on Water-related Ecosystems (UNEP). The reports, produced by the responsible custodian agencies, present new country, region and global data on the SDG 6 global indicators.

#### **United Nations World Water Development Report**

The United Nations World Water Development Report (WWDR) is UN-Water's flagship report on water and sanitation issues, focusing on a different theme each year. The report is published by UNESCO, on behalf of UN-Water and its production is coordinated by the UNESCO World Water Assessment Programme. The report gives insight on main trends concerning the state, use and management of freshwater and sanitation, based on work done by the Members and Partners of UN-Water. Launched in conjunction with World Water Day, the report provides decision-makers with knowledge and tools to formulate and implement sustainable water policies. It also offers best practices and in-depth analyses to stimulate ideas and actions for better stewardship in the water sector and beyond.

### UN-Water Global Analysis and Assessment of Sanitation and Drinking-Water (GLAAS)

GLAAS is produced by the World Health Organization (WHO) on behalf of UN-Water. It provides a global update on the policy frameworks, institutional arrangements, human resource base, and international and national finance streams in support of sanitation and drinking water. It is a substantive input into the activities of Sanitation and Water for All (SWA) as well as the progress reporting on SDG 6 (see above).

The progress reports of the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) The JMP is affiliated with UN-Water and is responsible for global monitoring of progress towards SDG6 targets for universal access to safe and affordable drinking water and adequate and equitable sanitation and hygiene services. Every two years the JMP releases updated estimates and progress reports for WASH in households, schools and health care facilities.

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