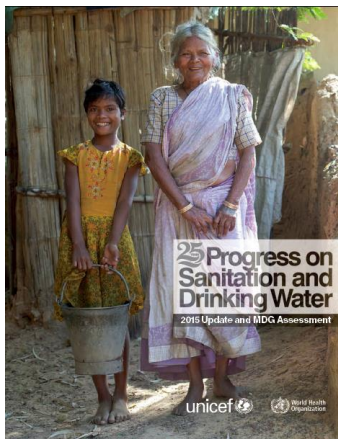


WASH and the 2030 Agenda for Sustainable Development

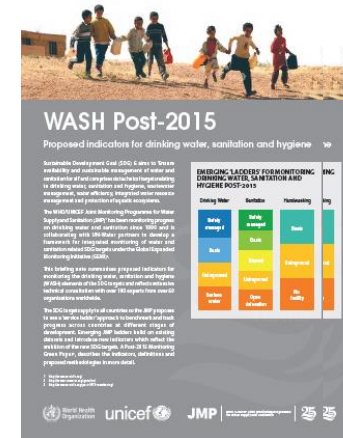


Regional Symposium
PAHO/WHO

19 August, 2016

Rick Johnston

johnstonr@who.int



Towards the 2030 Agenda

- Member States adopting the 2030 Agenda for Sustainable Development, September 2015
 - “plan of action for people, planet and prosperity”
 - “All countries and all stakeholders ... will implement this plan”
 - “We are determined to take the bold and transformative steps ... to shift the world onto a sustainable and resilient path”
 - “we pledge that no one will be left behind”

TRANSFORMING OUR WORLD:
THE 2030 AGENDA FOR
SUSTAINABLE DEVELOPMENT

A/RES/70/1



UNITED NATIONS

sustainabledevelopment.un.org

Member states are in charge

- Major shift from MDGs
- Impatience, frustration with UN
- Member states are determining
 - Global framework of goals and targets
 - Global framework of indicators
 - National frameworks for targets and monitoring

Global framework of indicators

- Inter-Agency Expert Group for the SDGs (IAEG-SDGs)
 - Established in 2015 by Statistical Commission
 - 28 Member States, numerous observers
- ToR
 - Develop a global indicator framework and list
 - Provide technical support for implementation
 - Review methodological developments and issues
- Activities to date
 - Consultations, review and tiering of indicators

15
Years

17
Goals

169
Targets

230
Indicators



From MDGs to SDGs

MDGs	SDGs
8 goals, 21 targets, 60 indicators	17 goals, 169 targets, 230 indicators
Focus on poverty reduction	Focus on 3 pillars of sustainable development
Primarily relevant to poor countries	Relevant to all countries
1 water and sanitation target	8 water and sanitation targets
2 core indicators on drinking water and sanitation	11 core indicators for water and sanitation
Monitoring through household surveys	Monitoring by national authorities, feeding into regional and global reporting

WASH and other targets

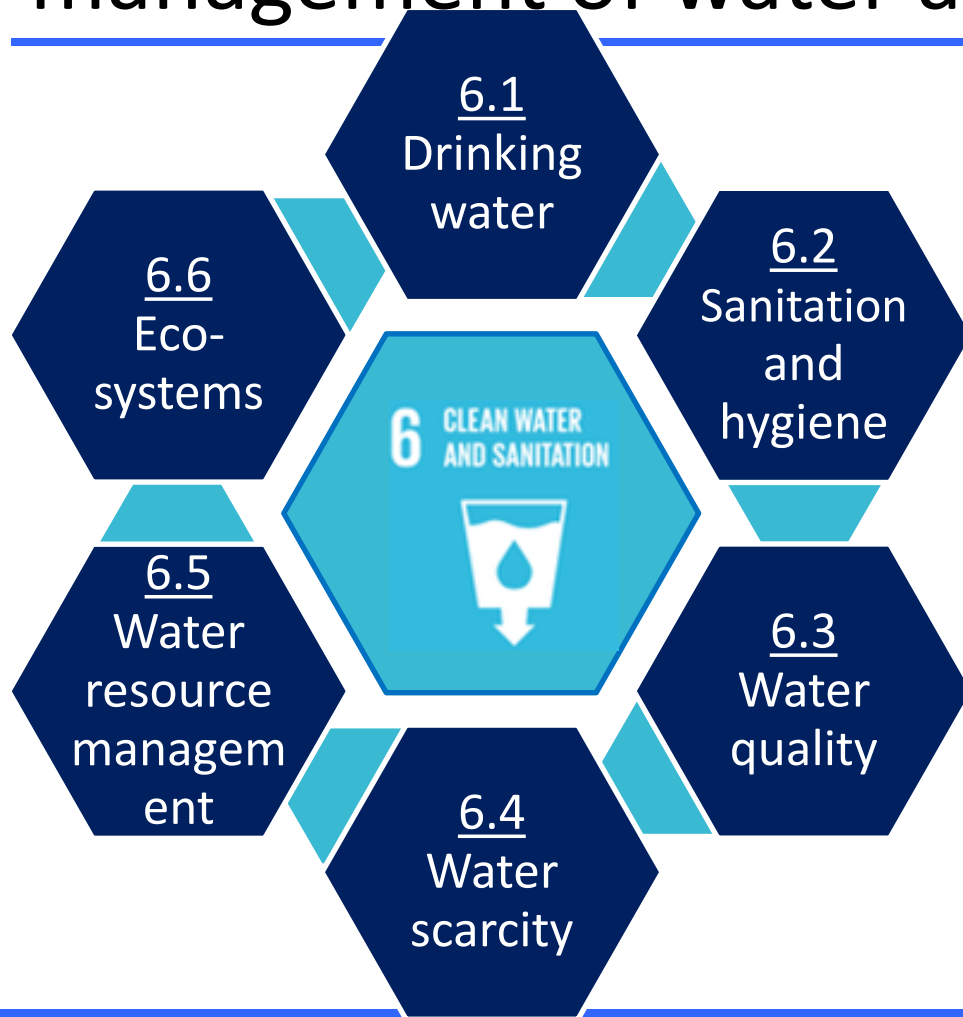
Basic services

- 1.4 For the poor
- 4.a In schools**
- 11.1 In cities
- Gender
- 4.5 Disparities in education
- 5.5 Full participation at all levels

Health-related

- 2.2 Malnutrition
- 3.1 Maternal mortality
- 3.2 Child mortality
- 3.3 Water-related diseases
- 3.8 Universal health coverage
- 3.9 Deaths and illness from water pollution**
- 11.5 Deaths from water-related disasters

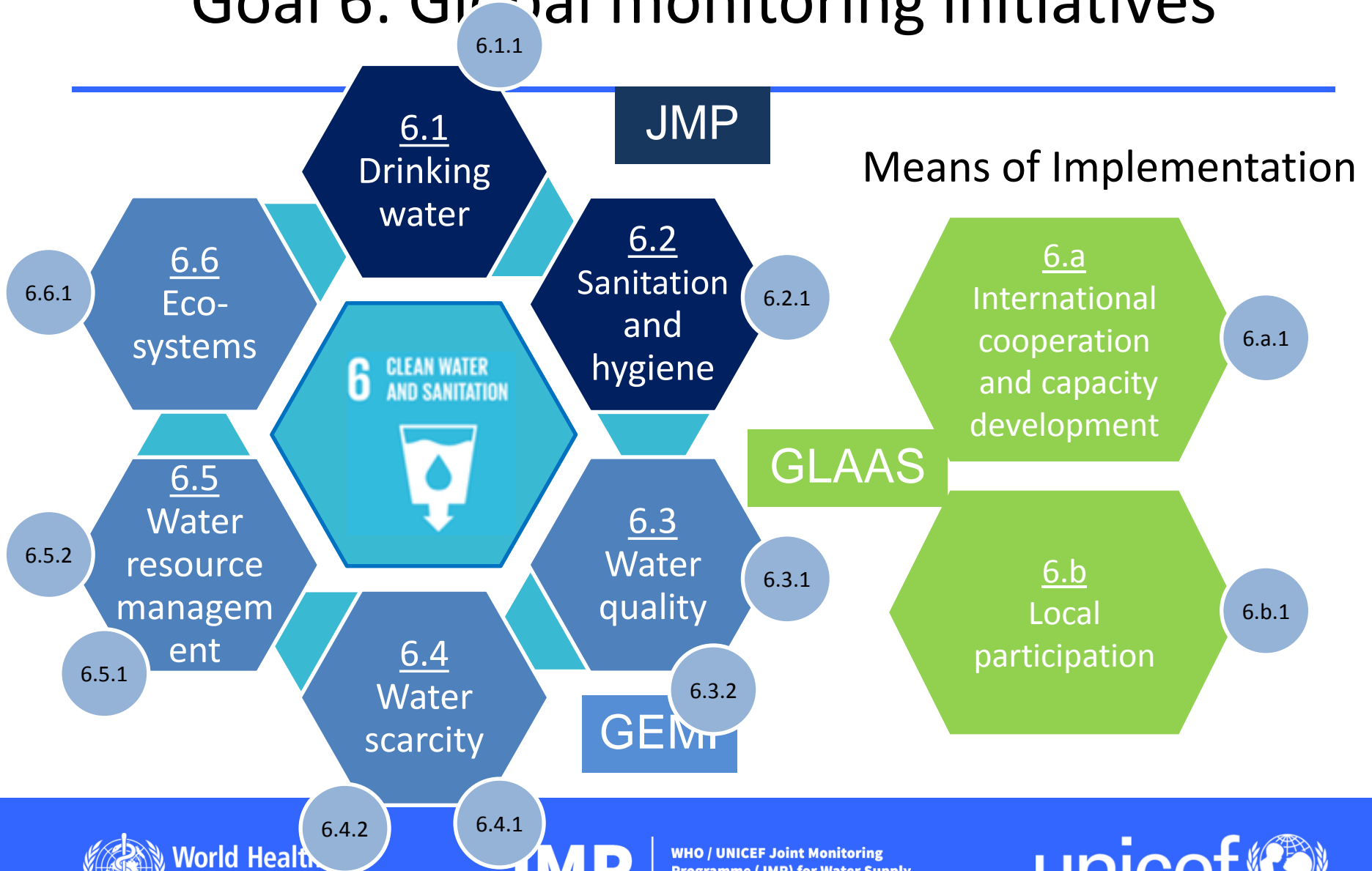
Goal 6: Ensure availability and sustainable management of water and sanitation for all



Means of Implementation



Goal 6: Global monitoring initiatives



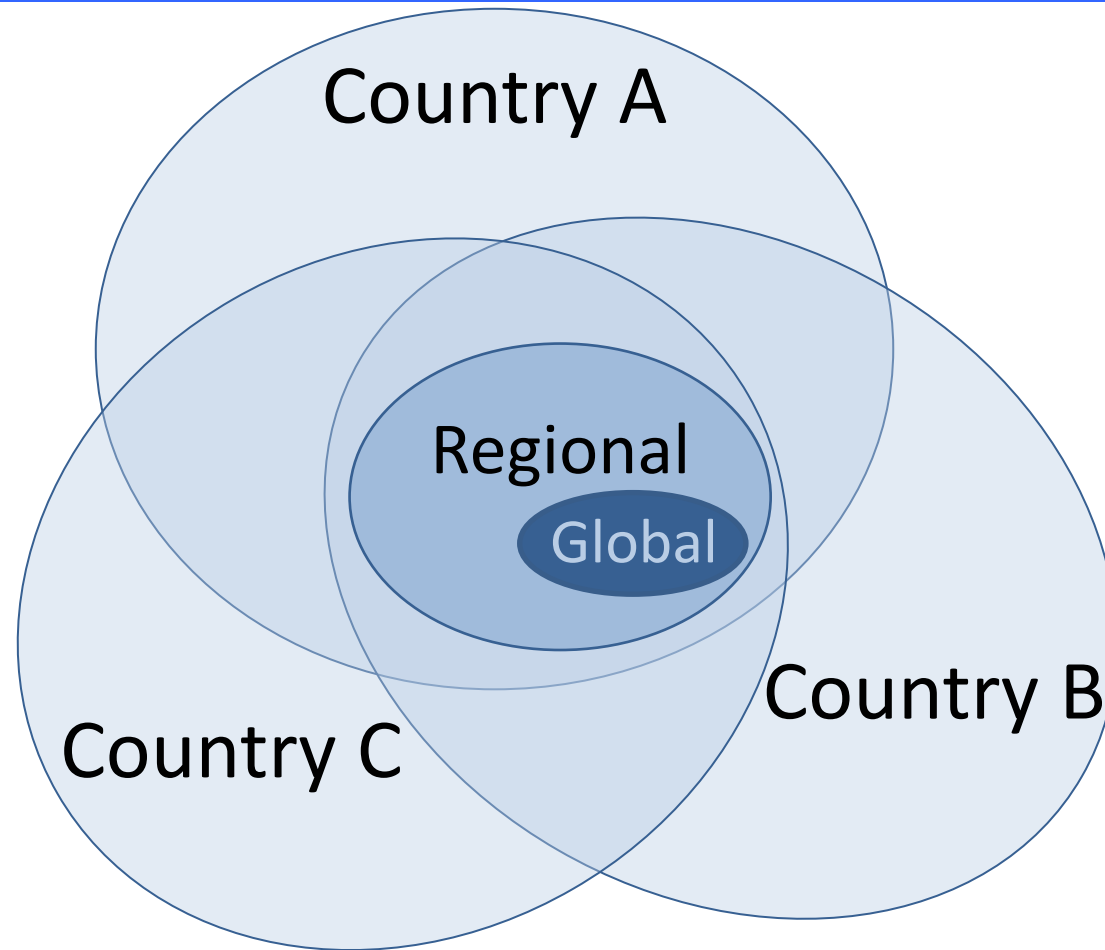
11 proposed global indicators

Indicator	(brief title)		Custodian agency
6.1.1	Safely managed drinking water services	JMP	WHO/UNICEF JMP
6.2.1	Safely managed sanitation services including handwashing		WHO/UNICEF JMP
6.3.1	Safely treated wastewater	GEMI	WHO, UN-Habitat
6.3.2	Ambient water quality in water bodies		UNEP
6.4.1	Change in water-use efficiency over time		FAO
6.4.2	Level of water stress		FAO
6.5.1	Degree of integrated water resource management implementation		UNEP
6.5.2	Transboundary basins with operational cooperation agreements		UNEP
6.6.1	Change in extent of water-related ecosystems over time		UNEP
6.a	Water and sanitation ODA as part of coordinated spending plans	GLAAS	OECD, WHO, UNEP
6.b	Participation of local communities in water and sanitation management		WHO, UNEP

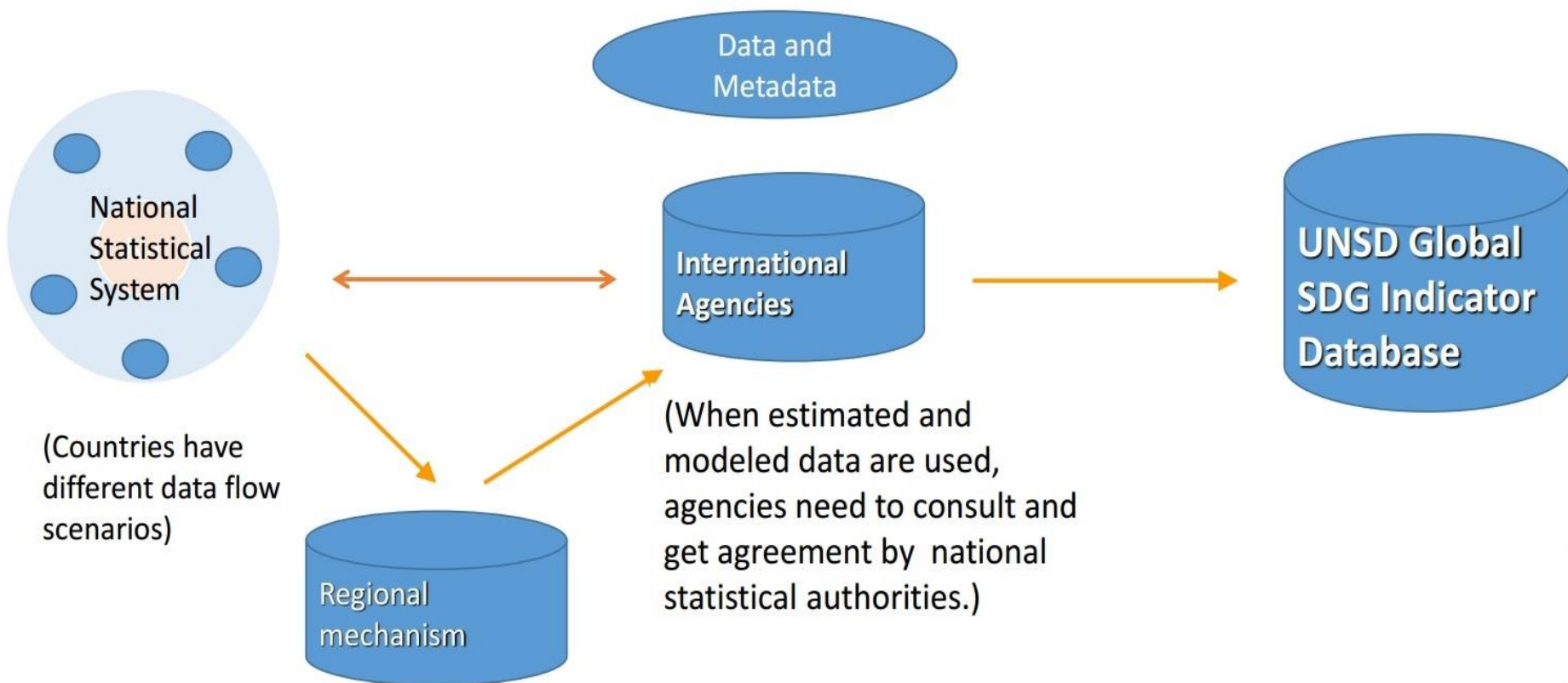
Indicator framework

- Global indicators will be the core of all other sets of indicators
- Member States will develop indicators at regional, national and sub-national levels to complement the global indicators, taking into account national circumstances.
- Thematic indicators are also being developed in a number of areas

Global, regional and national indicators



Data flow for global reporting



IAEG-SDG Tiering

- TIER I** – Indicator is conceptually clear, established methodology and standards available and data regularly produced by countries
- TIER II** – Indicator conceptually clear, established methodology and standards available but data are not regularly produced by countries
- TIER III** – Indicator for which there are no established methodology and standards or methodology/standards are being developed/tested

11 proposed global indicators

Indicator	(brief title)		IAEG Tier (Mar 16)
6.1.1	Safely managed drinking water services	JMP	I
6.2.1	Safely managed sanitation services including handwashing		I
6.3.1	Safely treated wastewater	GEMI	III
6.3.2	Ambient water quality in water bodies		III
6.4.1	Change in water-use efficiency over time		III
6.4.2	Level of water stress		I
6.5.1	Degree of integrated water resource management implementation		I
6.5.2	Transboundary basins with operational cooperation agreements		III
6.6.1	Change in extent of water-related ecosystems over time		III
6.a	Water and sanitation ODA as part of coordinated spending plans	GLAAS	I
6.b	Participation of local communities in water and sanitation management		I

47th Statistical Commission (Mar 16)

- Emphasised that global indicators are for global follow-up and review, and are not necessarily applicable to all national contexts
 - Indicators for regional, national and subnational levels of monitoring will be developed at the regional and national levels
- Agreed that IAEG-SDG should continue with tiering work over 2016
 - To report back to 48th Statistical Commission, especially on methodologies for Tier III indicators

47th Statistical Commission (Mar 16)

- Emphasised that global statistics will be based to the greatest extent possible on comparable and standardized national official statistics, provided by countries to the international statistical systems
 - When other sources and methodologies are used, these will be reviewed and agreed by the national statistical authorities
 - Importance of coordination between national statistical systems and international organizations
 - Recognized need to strengthening the reporting capacity of poorer countries

Timeline and next steps

Sep 15	UN General Assembly	Transforming our world
Dec 15	UN SG Report	
Mar 16	Statistical Commission	Considered global indicator framework
Jul 16	ECOSOC	Considered global indicator framework
Sep 16	UN General Assembly	Should finalize indicator framework
Oct 16	IAEG-SDG Meeting	Further review indicators, esp. Tier III
Mar 17	Statistical Commission	Provide more details on methodology for Tier III indicators
Jul 17	UN SG Report	First annual SDG progress report

Safely Managed Drinking Water Services



Target 6.1: Drinking water

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

6.1.1: Population using safely managed drinking water services

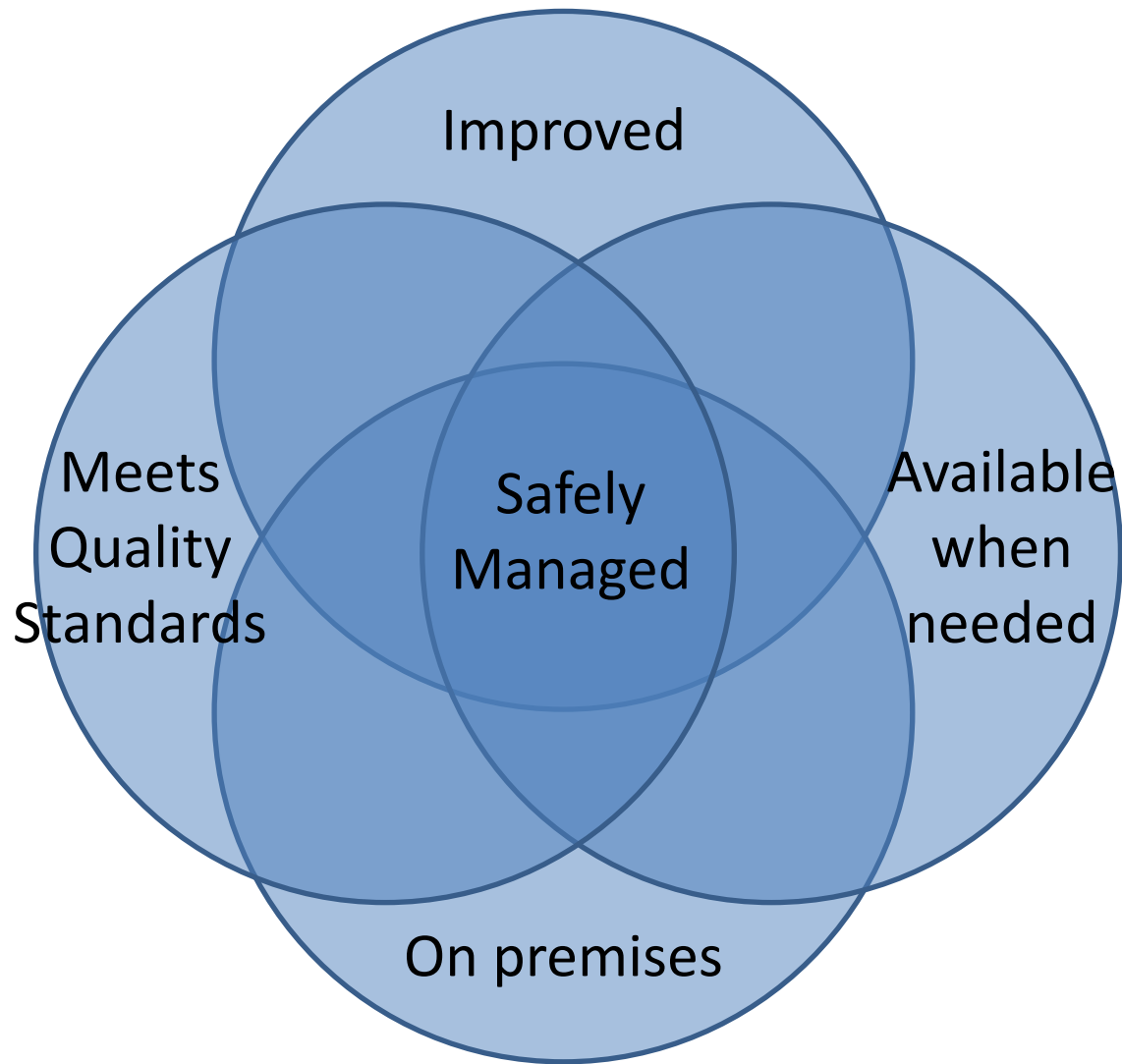
Definition: Pop. using an improved drinking water source which is:

- located on premises,
- available when needed, and
- free of faecal and priority chemical contamination
(*E. coli*/thermotolerant coliforms, arsenic, fluoride)

Accessibility

Availability

Quality



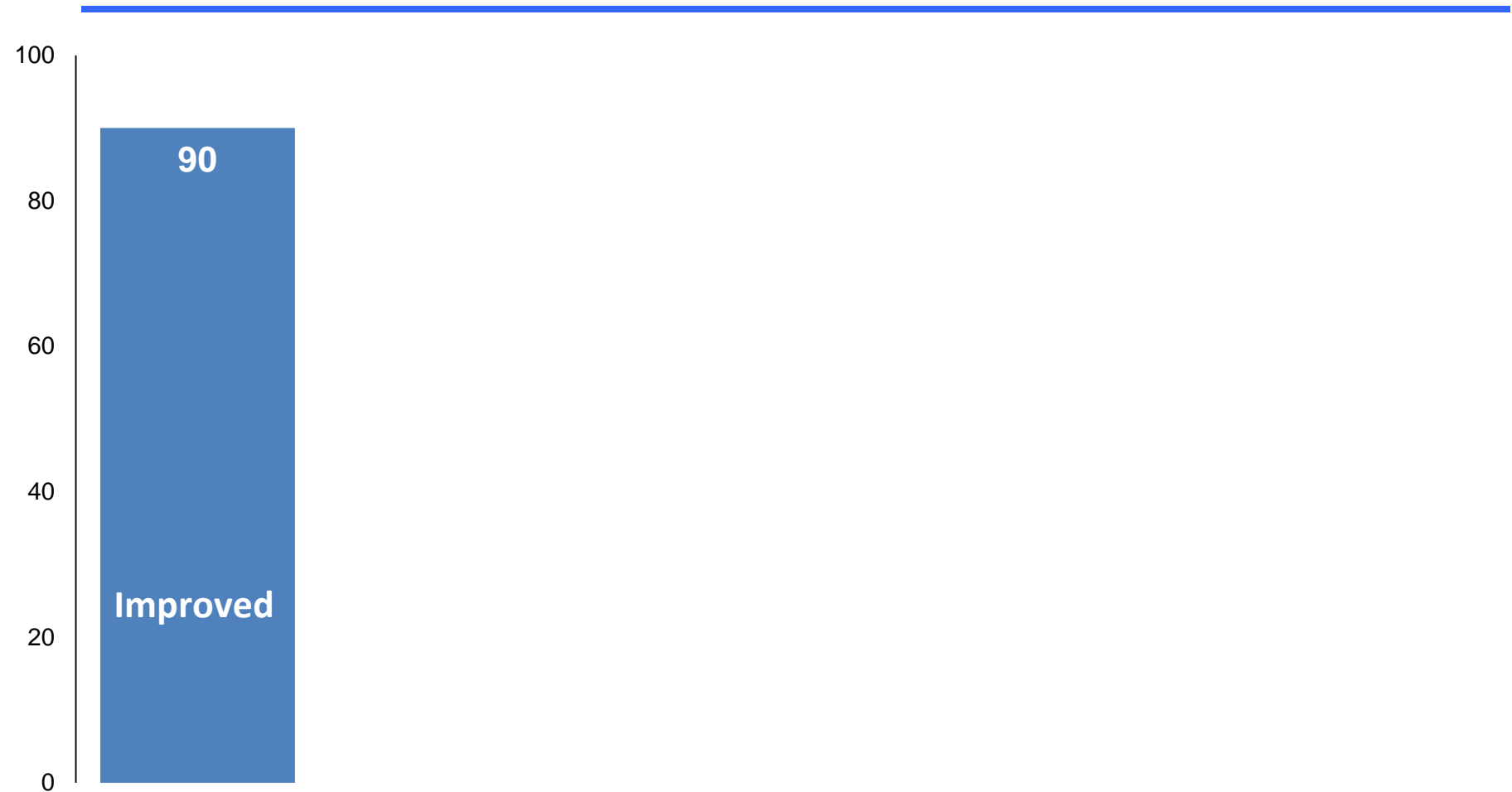
MDG/SDG	Service ladder	Progressive realization
SDG 6.1	Safely managed drinking water services	Improved source located on premises, available when needed, and free from contamination
MDG continuity	Basic service	Improved source within 30 minutes round trip collection time
	Limited service	Improved source over 30 minutes round trip collection time
	Unimproved	Unimproved source which does not protect against contamination
	No service	Surface water

MDG IMPROVED

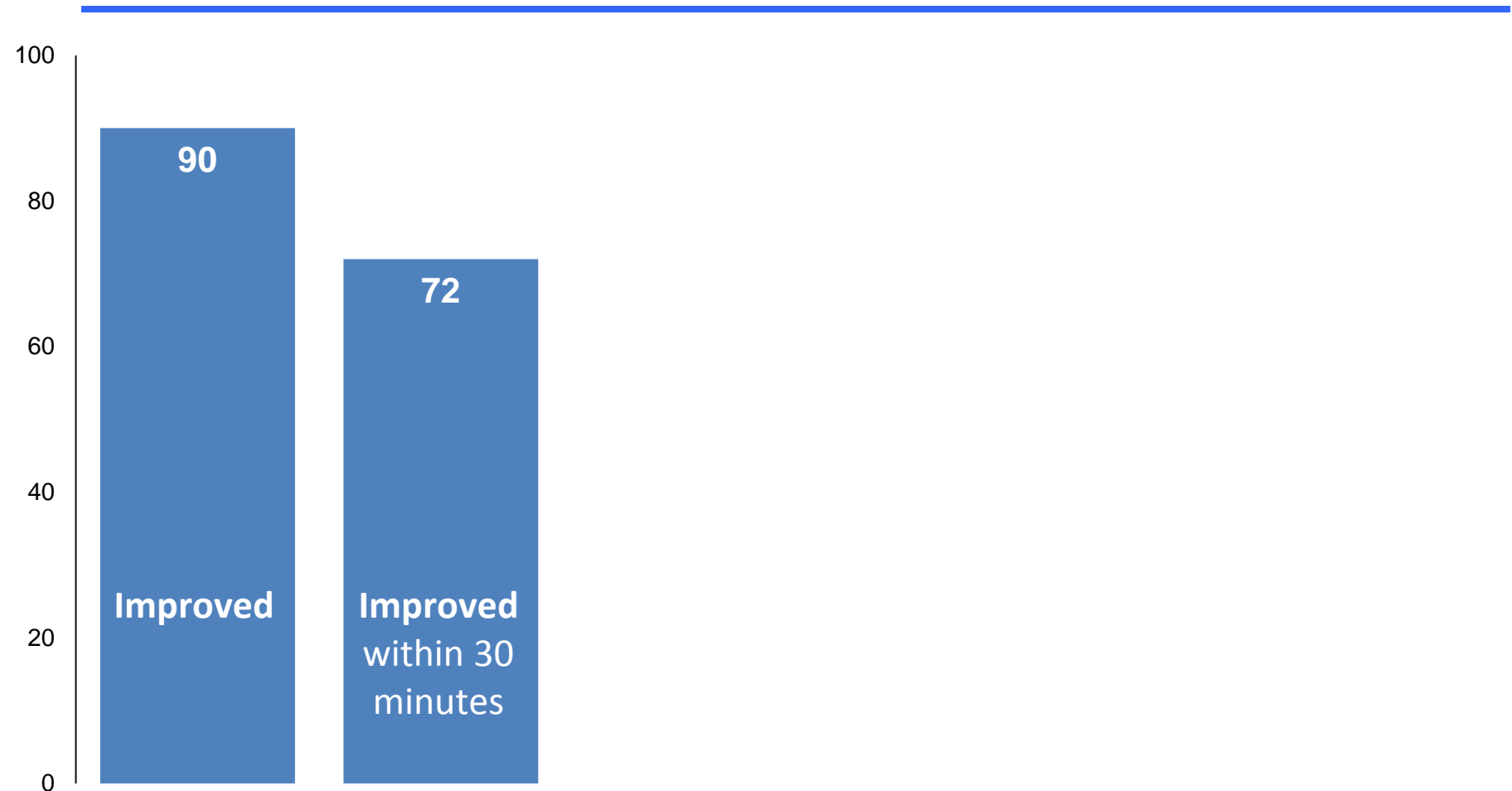
Realisation

Progressive

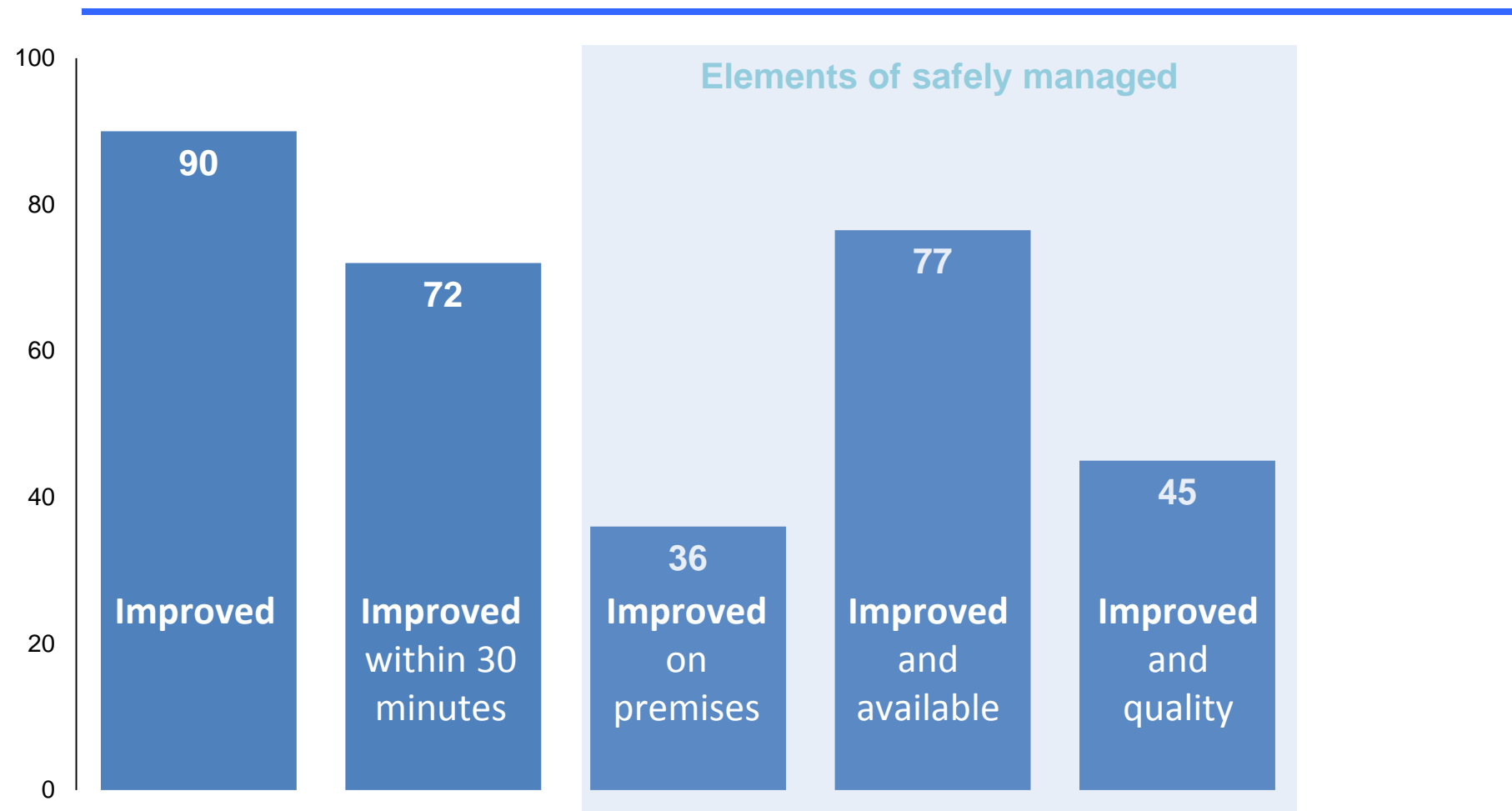
Example: Safely Managed Drinking Water



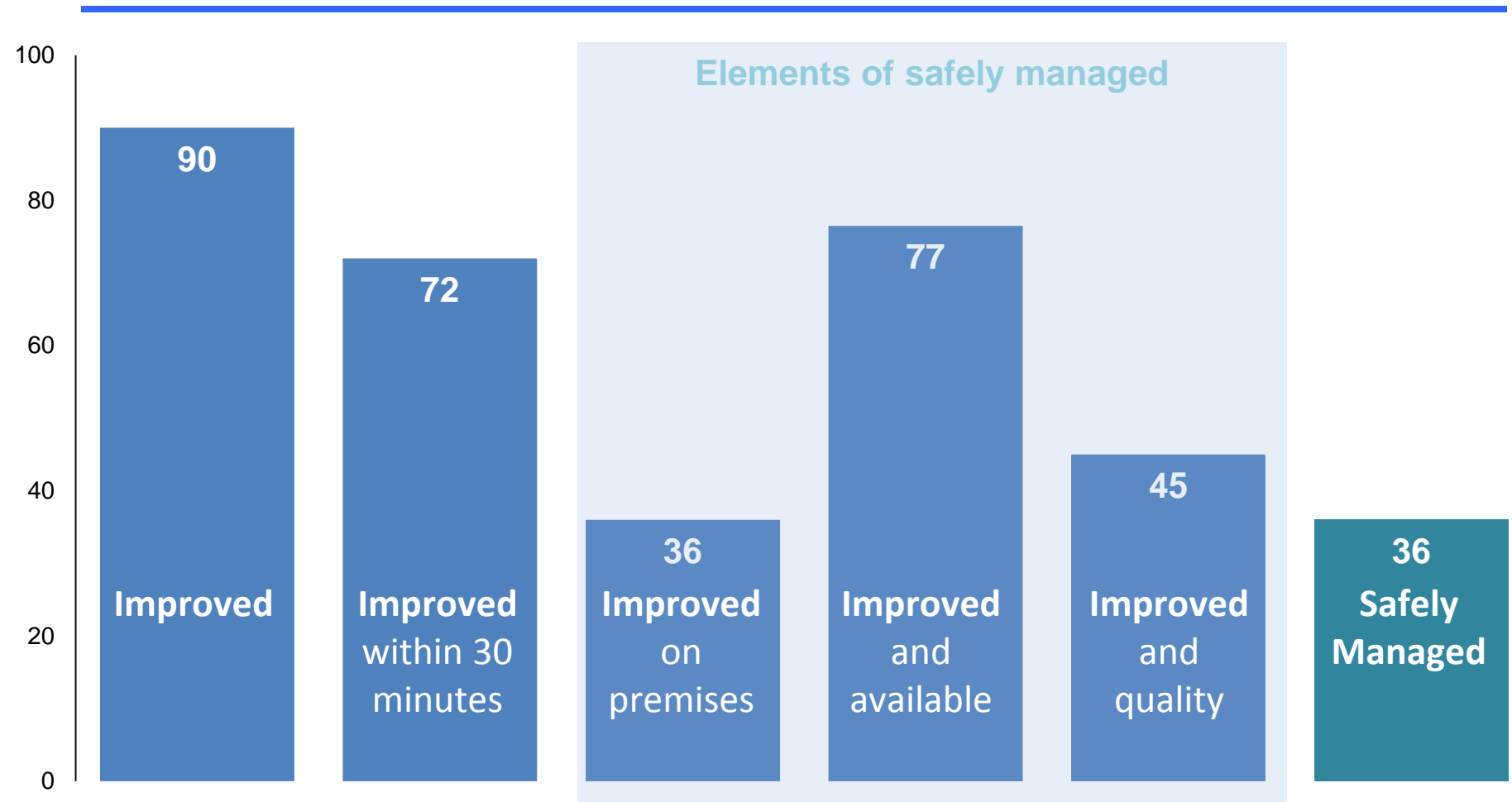
Example: Safely Managed Drinking Water



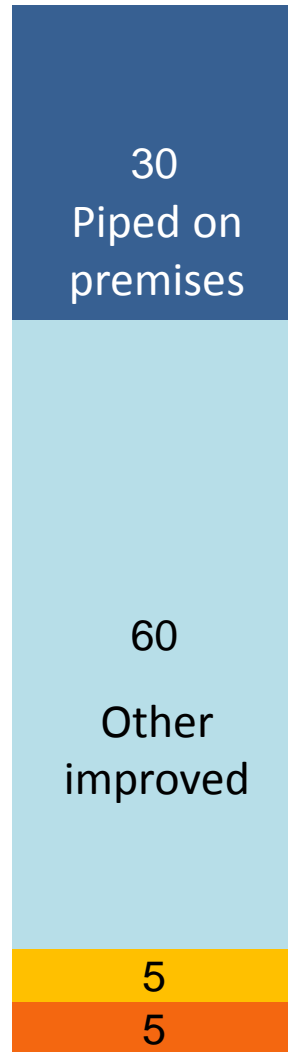
Example: Safely Managed Drinking Water



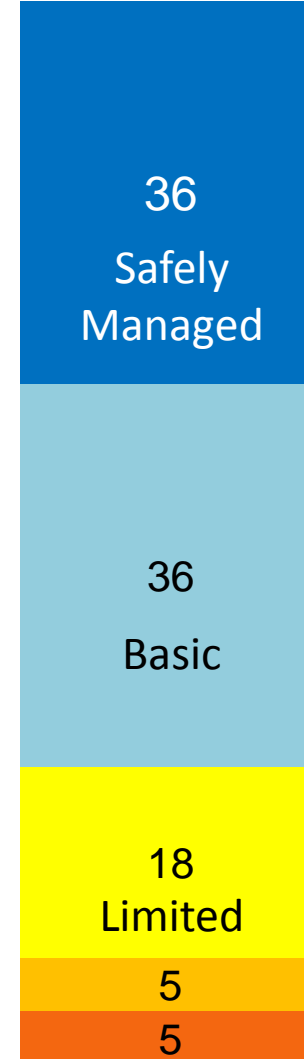
Example: Safely Managed Drinking Water



MDG Ladder



SDG Ladder



Unimproved
Surface water

Data sources

Criterion	Household Surveys	Sectoral data
Accessibility	Now: Travel time (or distance), is the water supply on premises	Maximum distance/ travel time Household connections (piped supplies)
Availability	Now: What people report using New: In the last two weeks, have you been unable to get water from your main drinking water source?	Coverage Continuity (piped) Hours of service
Quality	New: Water quality testing in household surveys	Compliance with national norms, WSPs

Data availability

- Household surveys and censuses
 - Ca. 1,700 in current JMP database
- Sectoral data
 - New desk review: 871 reports from 194 countries, areas and territories (6.9 B people)
 - IB-NET (utilities)
 - Drinking water regulators
 - Ministries responsible for service provision or oversight
 - Often partial coverage

Preliminary mapping: data availability (# of datasets)

MDG Region	Surveys (Accessibility)	Sectoral data			Sectoral
		Accessibility	Continuity	Quality	TOTAL
Causasus and Central Asia	65	--	7	5	21
Developed Countries	306	2	41	148	292
Eastern Asia	31	--	4	28	52
Latin America and the Caribbean	367	1	89	40	213
Northern Africa	42	1	9	--	19
Oceania	50	1	16	15	48
Sub-Saharan Africa	486	2	65	53	135
Southern Asia	101	2	6	12	24
South-eastern Asia	118	--	10	6	24
Western Asia	49	--	16	5	43
World	1,615	9	263	312	871

Preliminary mapping: data availability (# of countries)

MDG Region	Surveys (Accessibility)	Sectoral data			Sectoral
		Accessibility	Continuity	Quality	TOTAL
Causasus and Central Asia	8	--	7	4	7/8
Developed Countries	49	1	27	43	52/55
Eastern Asia	4	--	4	4	5/6
Latin America and the Caribbean	32	1	40	19	44/46
Northern Africa	5	1	5	--	5/6
Oceania	12	1	16	11	18/20
Sub-Saharan Africa	49	2	34	13	36/51
Southern Asia	9	2	6	4	7/9
South-eastern Asia	10	--	7	5	9/11
Western Asia	9	--	10	3	11/13
World	187	8	156	106	194/225

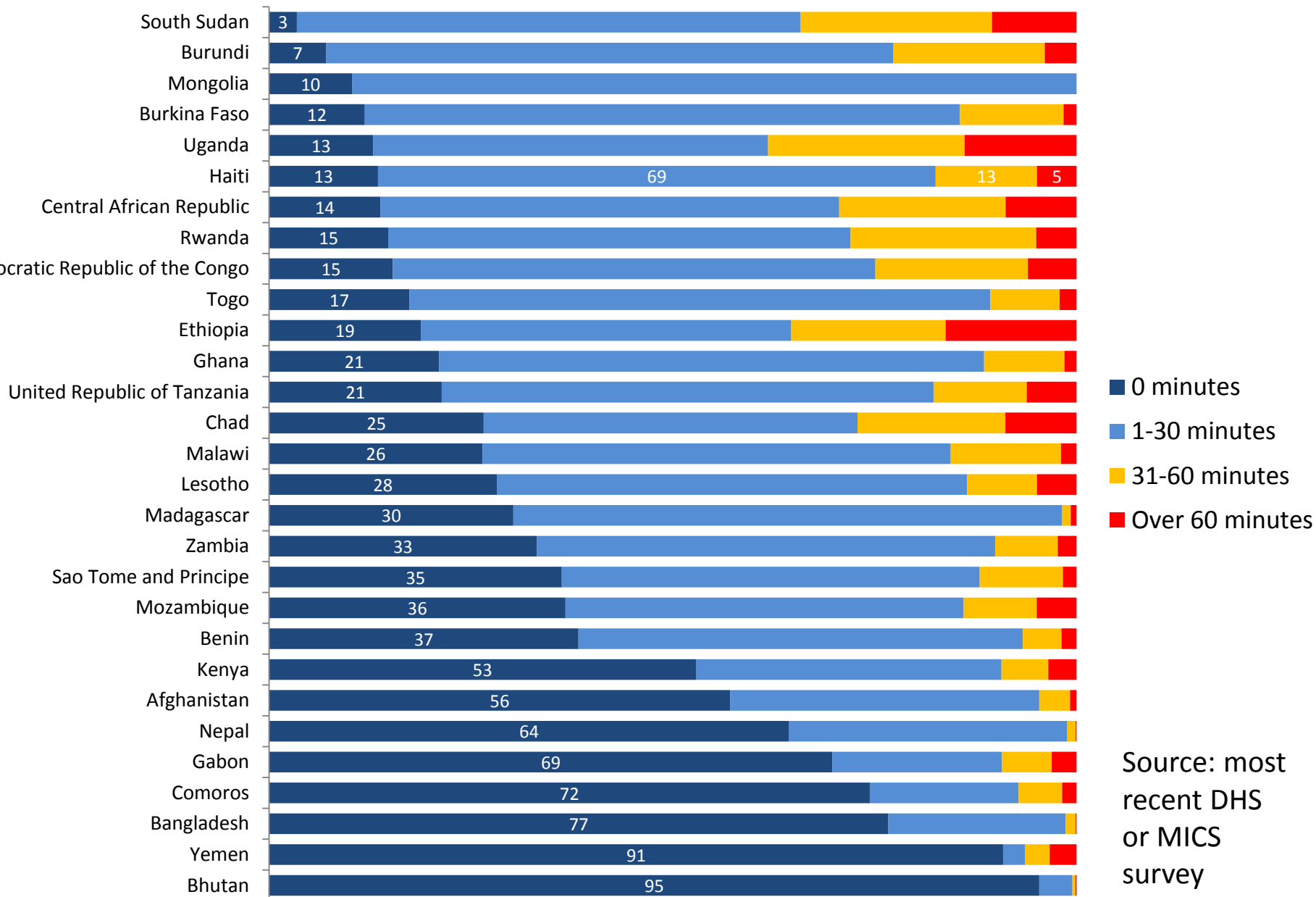
Example: Colombia

ISO 3	Data category	data type	year	Authority	urban/rural	Title	Web
COL	Utilities	DW continuity	3/2004, 2007/2010		Only urban		https://database.ib-net.org/
COL	Regulator	DW continuity	2015	Superintendencia de Servicios	Only total	Informe sectorial	http://www.superservicios.gov.co/
COL	Regulator	DW quality	2015	Superintendencia de Servicios	Only total	Informe sectorial	http://www.superservicios.gov.co/
COL	Regulator	Waste water	2015	Superintendencia de Servicios	Only total	Informe sectorial	http://www.superservicios.gov.co/
COL	Regulator	DW quality	2014	Superintendencia de Servicios	Only total	Informe sectorial	http://www.superservicios.gov.co/
COL	Regulator	DW continuity	2014	Superintendencia de Servicios	Only total	Informe sectorial	http://www.superservicios.gov.co/
COL	Regulator	Waste water	2014	Superintendencia de Servicios	Only total	Informe sectorial	http://www.superservicios.gov.co/
COL	Regulator	DW quality	2014	Superintendencia de Servicios	Only total	Diagnostico comunitario	http://www.superservicios.gov.co/
COL	Regulator	Waste water	2014	Superintendencia de Servicios	Only total	Informe tecnico	http://www.superservicios.gov.co/
COL	Report	Waste water	2000	PAHO	Only total	Regional report	http://www.bvsde.paho.org/bvsasas/i
COL	Regulator	DW quality	2015/2016	SMICAP	Only total	Boletin vigilante	http://www.ins.gov.co/
COL	Regulator	DW quality	2014	SMICAP	Urban and rural separately	Estado de la	http://www.ins.gov.co/
COL	Survey	DW accessibility	2000	USAID	Urban and rural separately	DHS2000	
COL	Survey	DW continuity	2003	Departamento Administrativo Nacional de Estadística		ECV2003	
COL	Survey	DW accessibility	2003	Departamento Administrativo Nacional de Estadística		ECV2003	
COL	Survey	DW continuity	2008	Departamento Administrativo Nacional de Estadística		ECV2008	
COL	Survey	DW accessibility	2008	Departamento Administrativo Nacional de Estadística		ECV2008	
COL	Survey	DW continuity	2009	Departamento Administrativo Nacional de Estadística		ECV2009	
COL	Survey	DW continuity	2010	Departamento Administrativo Nacional de Estadística		ECV2010	
COL	Survey	DW accessibility	2010	Departamento Administrativo Nacional de Estadística		ECV2010	
COL	Survey	DW continuity	2011	Departamento Administrativo Nacional de Estadística		ECV2011	
COL	Survey	DW continuity	2012	Departamento Administrativo Nacional de Estadística		ECV2012	
COL	Survey	DW accessibility	2010	USAID	Urban and rural separately	DHS2010	
COL	Survey	DW continuity	2013	Departamento Administrativo Nacional de Estadística		ECV2013	
COL	Survey	DW continuity	2014	Departamento Administrativo Nacional de Estadística		ECV2014	
COL	Survey	DW continuity	2015	Departamento Administrativo Nacional de Estadística		ECV2014	

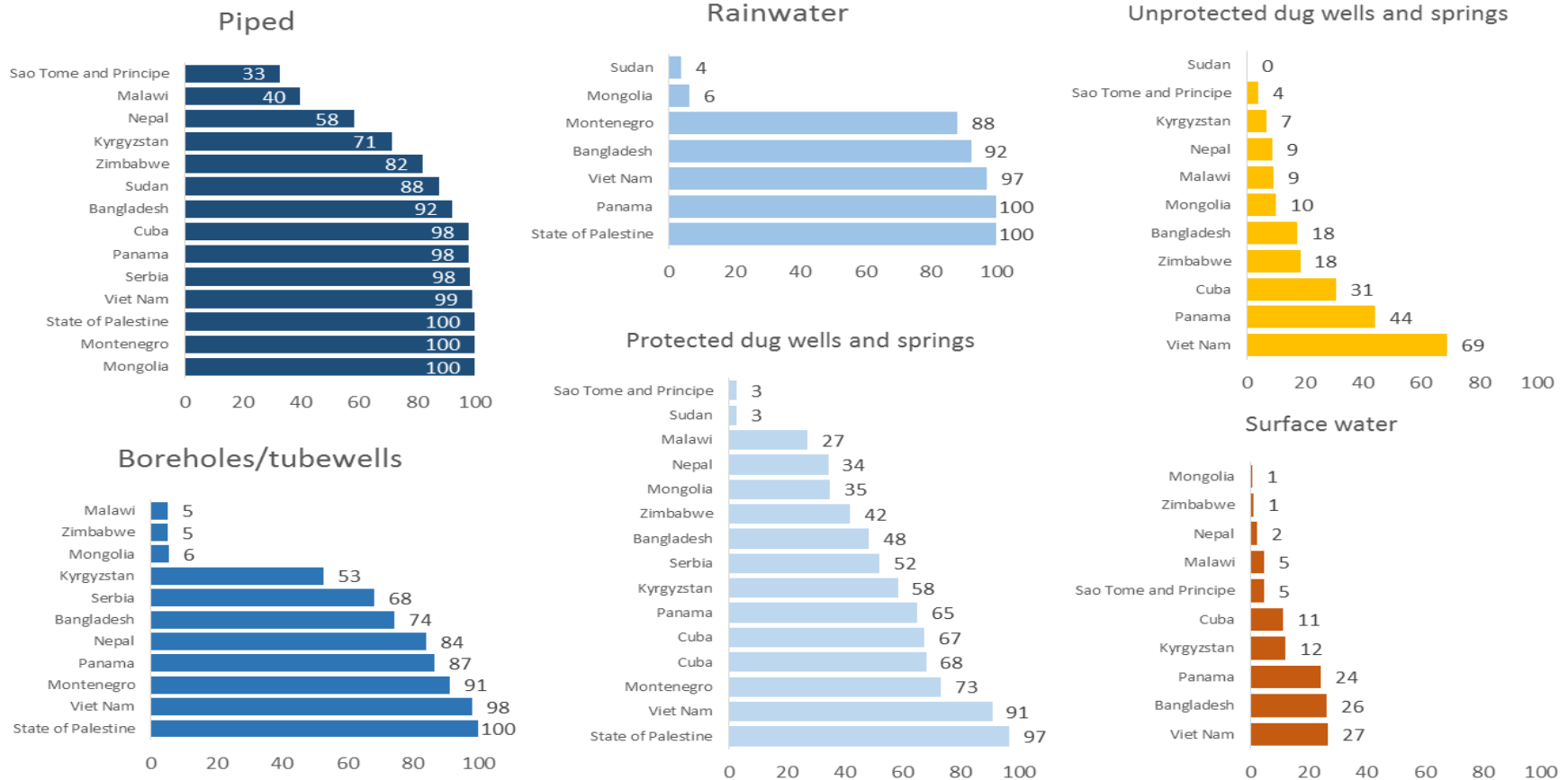
+ Accessibility
from 2 censuses, 5
other household
surveys

Accessibility (on premises, 30 min)

- Household surveys and censuses
 - On premises (piped water)
 - Travel time (sometimes distance)
 - Available for all DHS and MICS countries
- Sector data
 - Household connections, among piped water services
 - Only found data from 8 countries, 1.5B people



“On premises” varies widely by source and by country

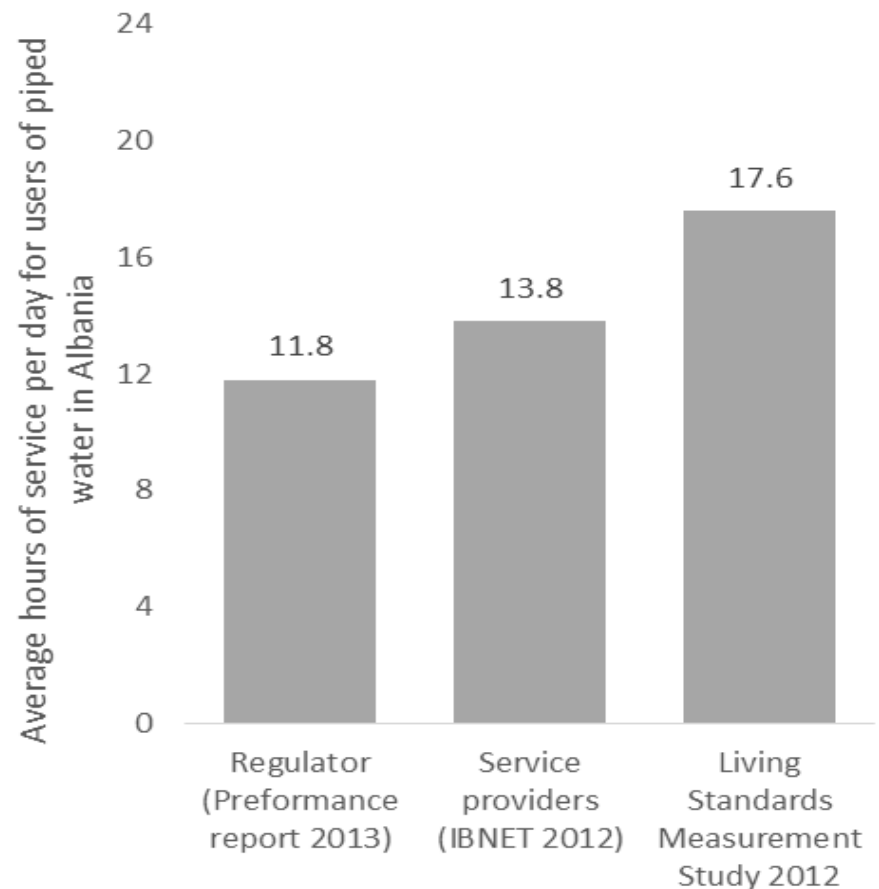


Availability

- Household surveys and censuses
 - Introducing new questions
 - Continuity (hours of service) of piped water supplies
 - In the last two weeks, have you been unable to get water from your main drinking water source?
- Sector data
 - Continuity of piped supplies (mainly from IB-NET)
 - Different benchmarks (24/7, 20 hours, 16 hours...)
 - Data from 156 countries, 6.3B people

Variability among data sources

- Example: Albania
- Good Performance Objective
 - 18 hours per day
- Strategic objective for 2013
 - 14 hours per day
- Triangulation



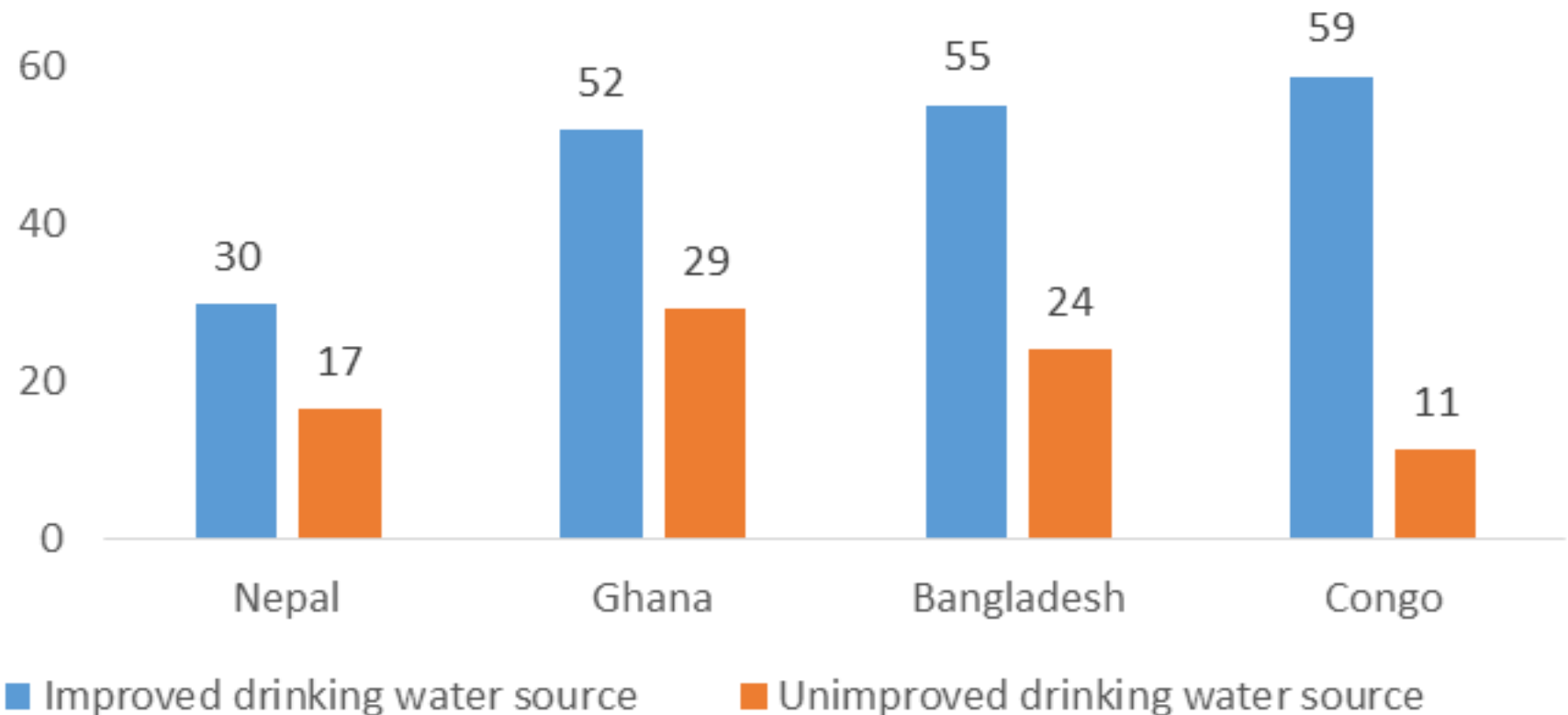
Quality

- *E. coli*/thermotolerant coliforms, arsenic, fluoride
- Household surveys and censuses
 - New module to test *E. coli* in household surveys
 - Completed in 5 countries, underway in ca. 12 more
- Sector data
 - Data from 106 countries, 5.2B people
 - Many for only formal systems, mainly urban
 - Some lack *E. coli* or thermotolerant coliforms
 - Many lack arsenic and fluoride

MICS Paraguay, 2016



Improved sources are more often free from *E. coli*



Data completeness assessment

- Many of the sector data are incomplete
 - Geographically
 - Formal supplies only, no water quality for rural areas
 - Different proxies
 - E.g. residual chlorine, instead of *E. coli*/TTC measures
- Global estimates may require assumptions
 - As long as they don't affect too much population
 - Results in less robust assessment (lower grade)

Data completeness score

4

- NSO endorses all data sources used
- Assumptions affect < 10% of the population

3

- Assumptions affect < 10% of the population

2

- Assumptions affect 10-25% of the population

1

- Assumptions affect 25-50% of the population
- Estimate made in JMP reports but not sent to UNSD

0

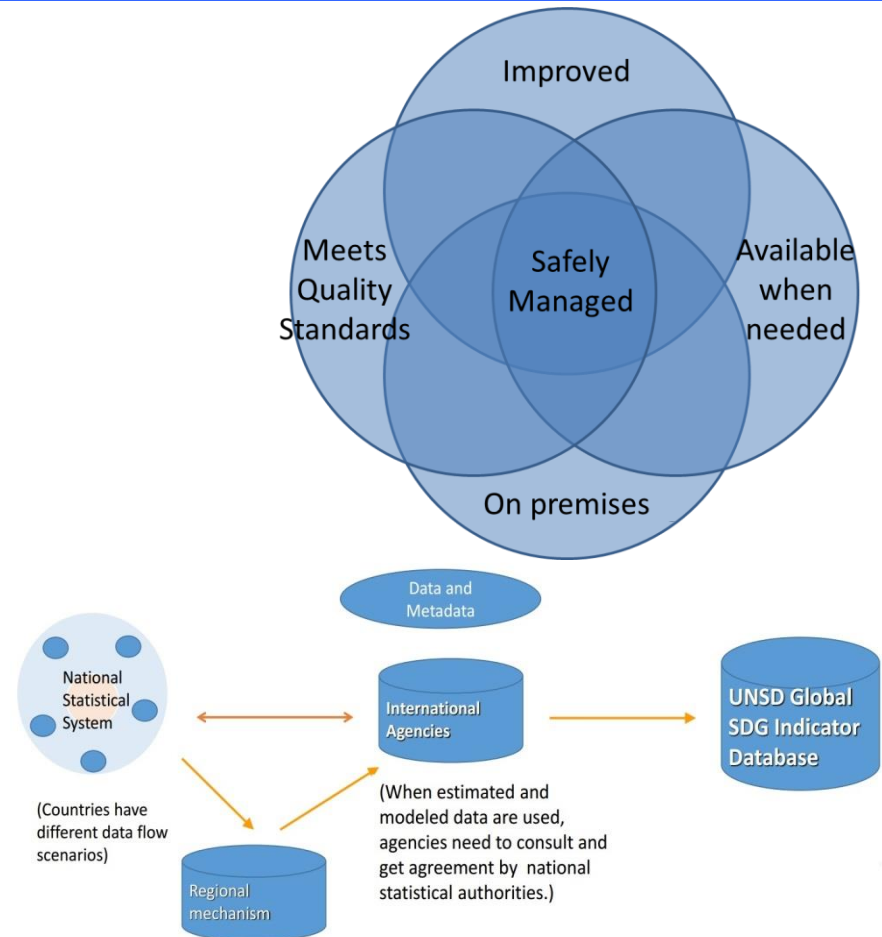
- Assumptions affect > 50% of the population
- No estimate made

Examples of assumptions

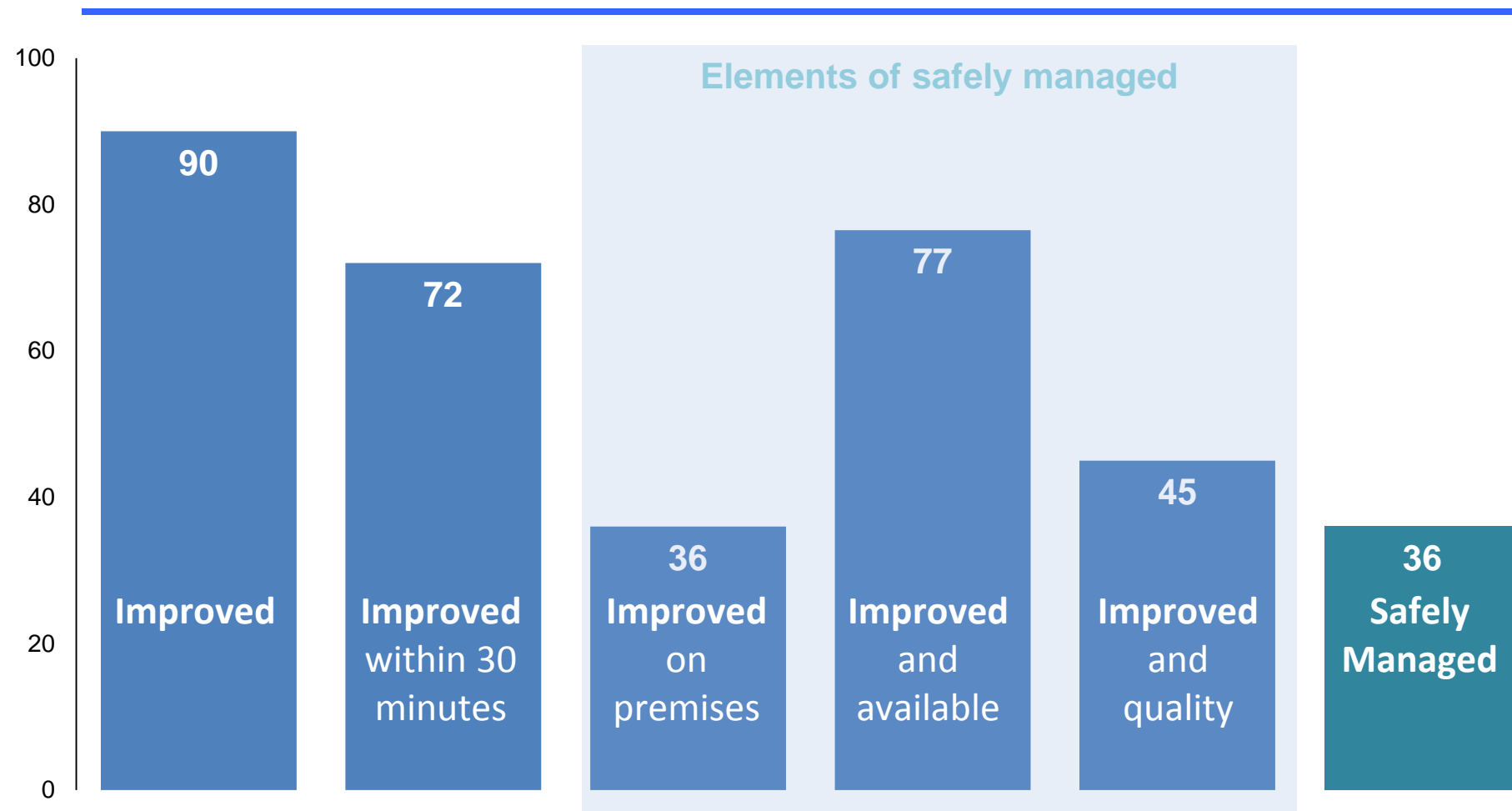
- 5% of the population uses traditional wells, no information on if these are improved
 - Assume 50% improved, Grade 3
- 20% of the population uses boreholes, no information on availability
 - Assume 50% available, Grade 2
- 40% of the population uses informal supply, no information on quality
 - Assume 50% meet standards, Grade 1

Putting it all together

- Combine elements at lowest possible level
 - Household
 - Service provider
 - National
- Triangulate when multiple sources are available

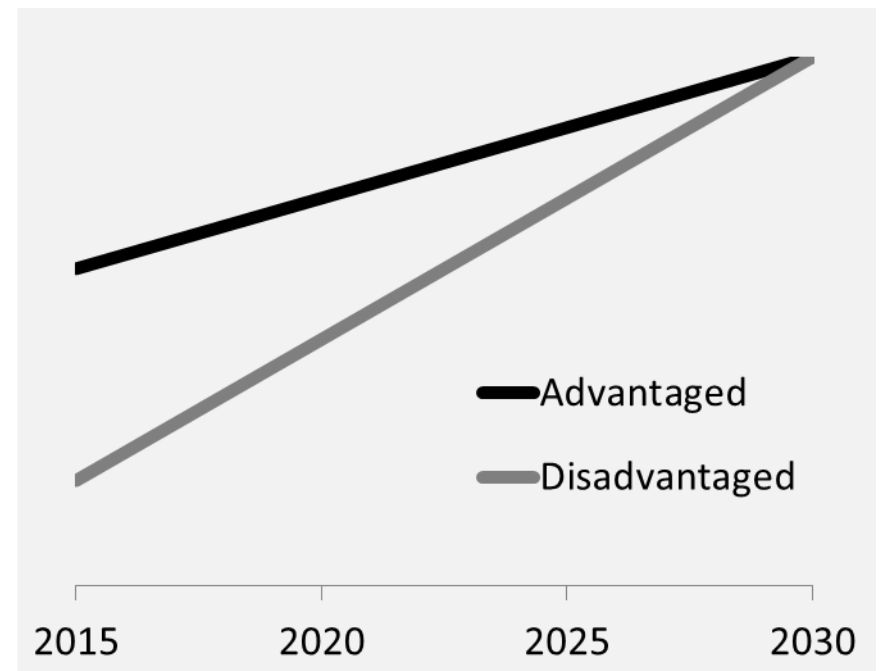


Example: Safely Managed Drinking Water

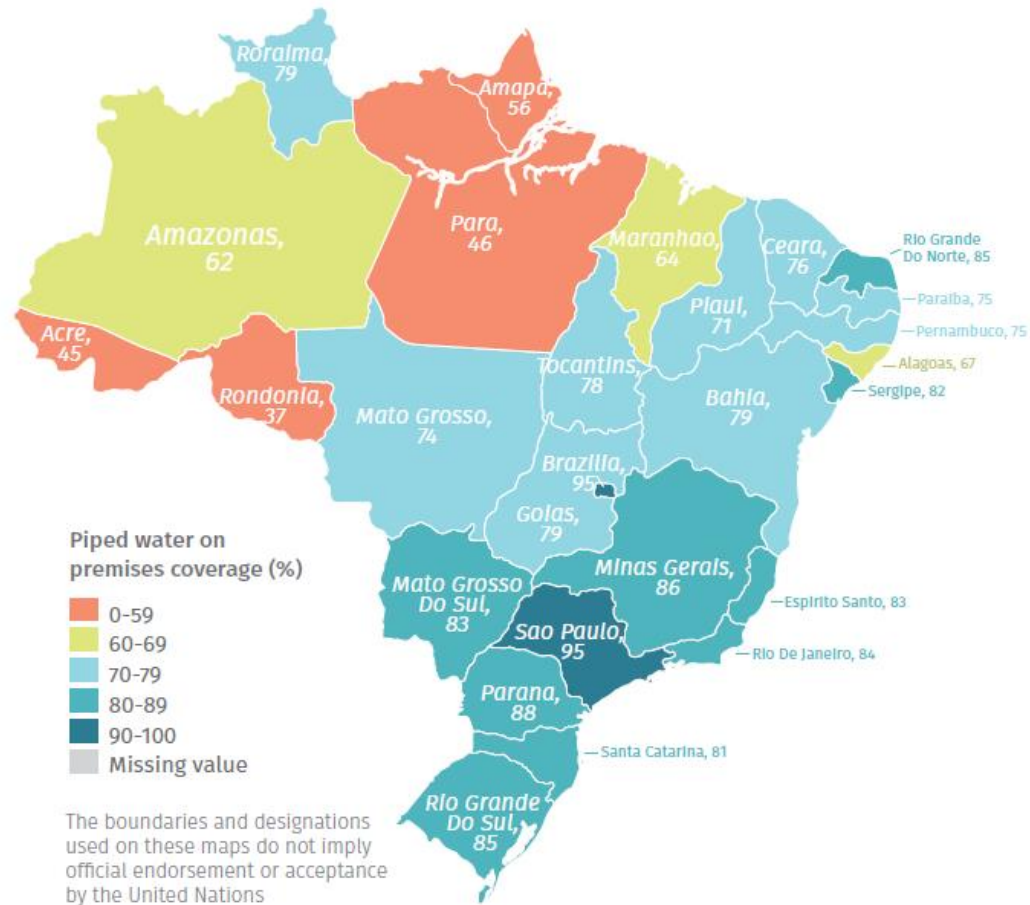
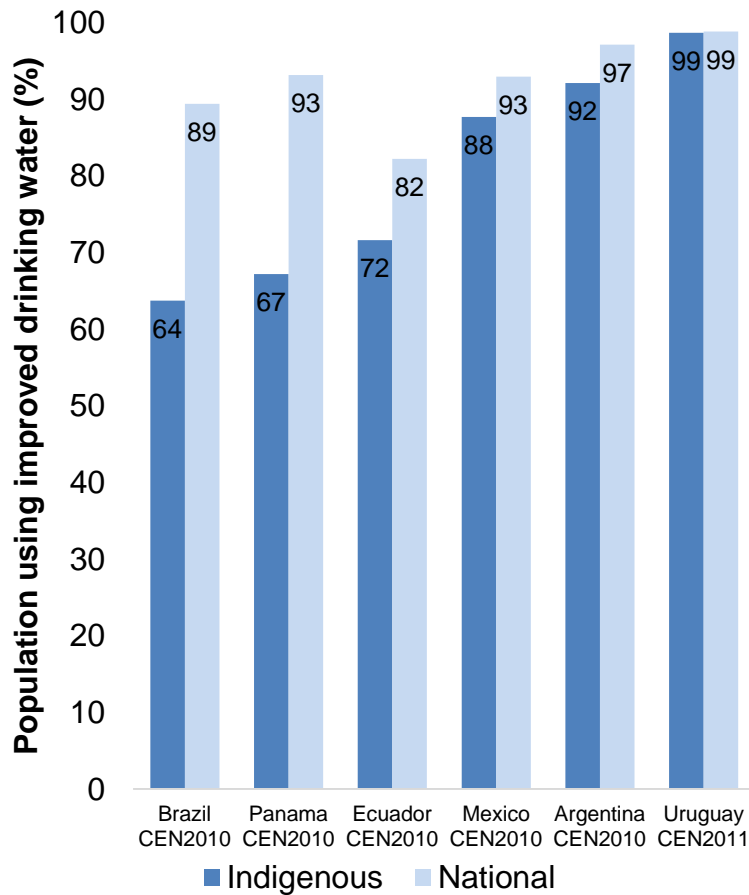


SDG targets 'leave no one behind'

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



Inequalities in LAC



Next steps

- Data collection through end of 2016
 - September: data request to regional and country offices
- Data analysis through end of 2016
 - Produce estimates and data completeness grades
- Country consultation on estimates, early 2017
- Publish 2017 baseline report, mid-2017

Safely Managed Sanitation Services



Target 6.2: Sanitation and hygiene

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

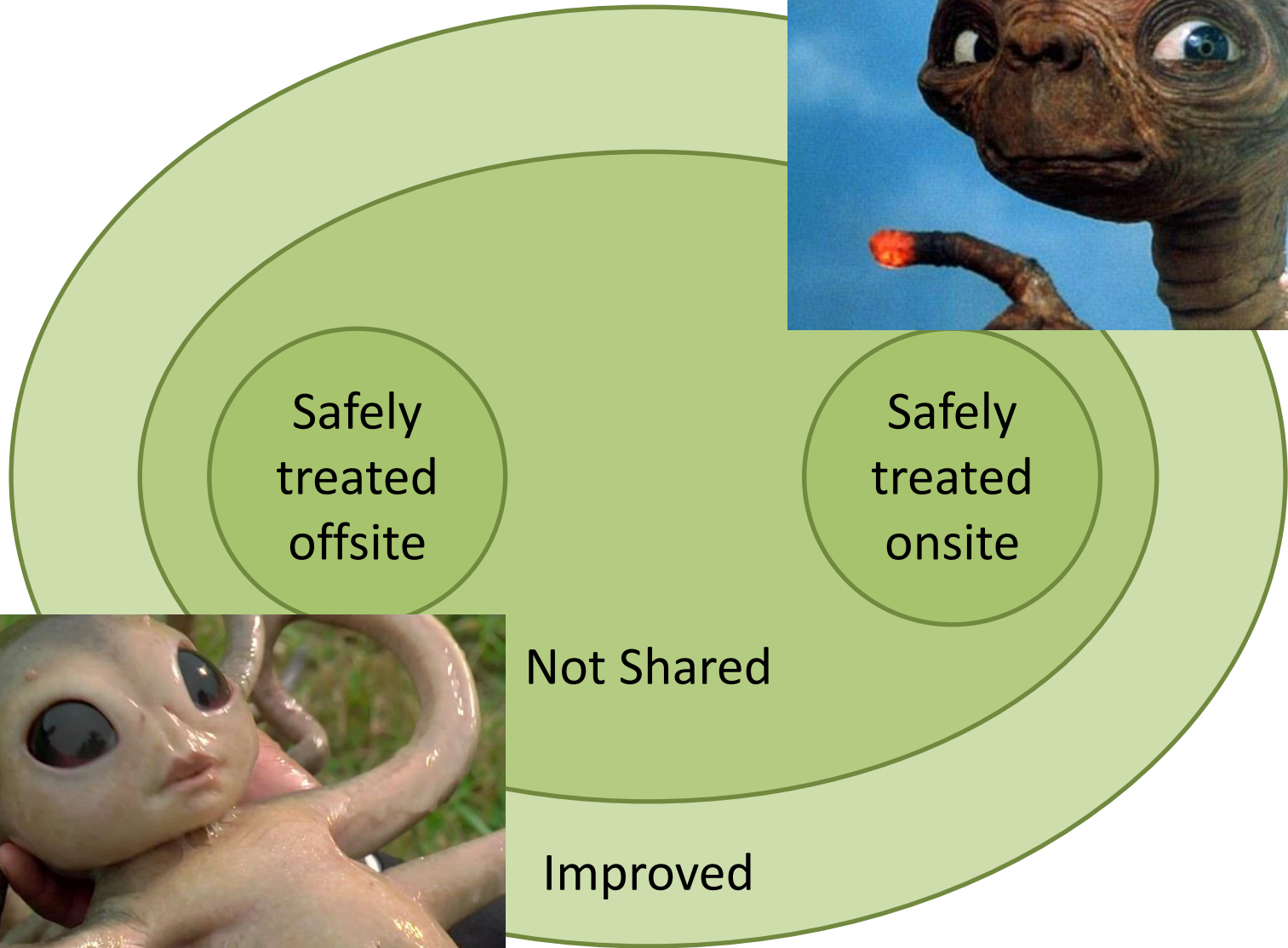
6.2.1: Population using safely managed sanitation services including a handwashing facility with soap and water

Definition: Pop. using an improved sanitation facility which is:

- not shared with other households and where
- excreta are safely disposed in situ or
- transported and treated off-site

Accessibility

Quality



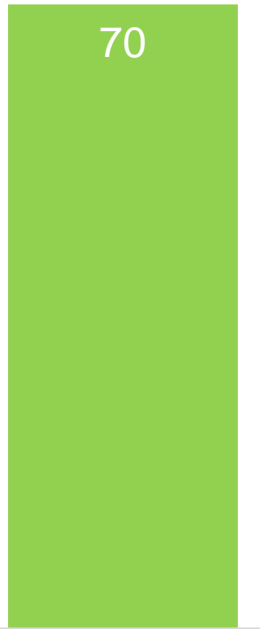
MDG/SDG	Service ladder	Progressive realization
SDG 6.2	<p>Safely managed sanitation services</p>	<p>Private improved facility where faecal wastes are safely disposed on site or transported and treated off-site; plus a handwashing facility with soap and water</p>
MDG continuity	<p>Basic service</p>	<p>Private improved facility which separates excreta from human contact</p>
	<p>Limited service</p>	<p>Improved facility shared with other households</p>
	<p>Unimproved</p>	<p>Unimproved facility which does not separate excreta from human contact</p>
	<p>No service</p>	<p>Open defecation</p>

MIDG IMPROVED

Realisation

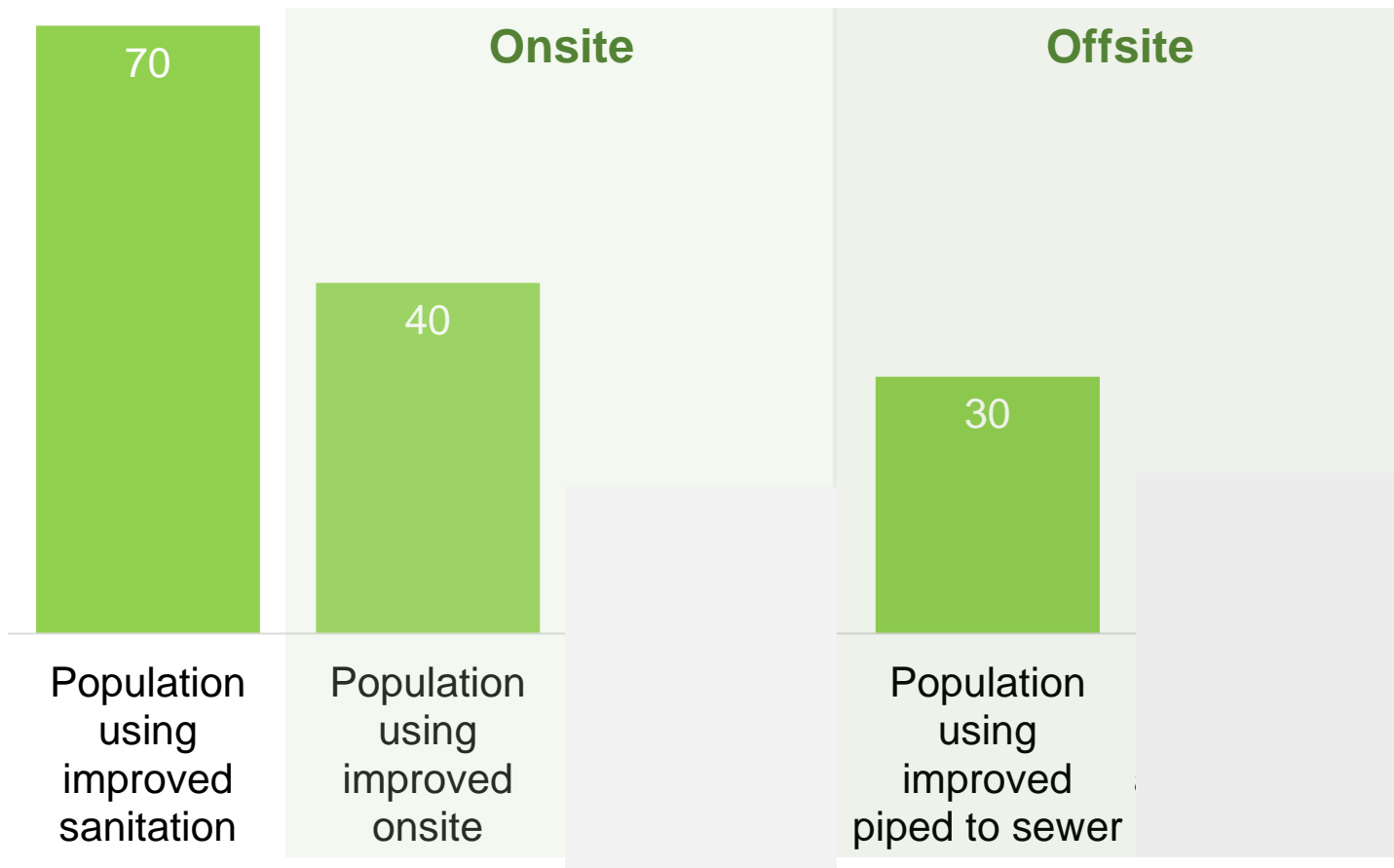
Progressive

Example of Safely Managed Sanitation

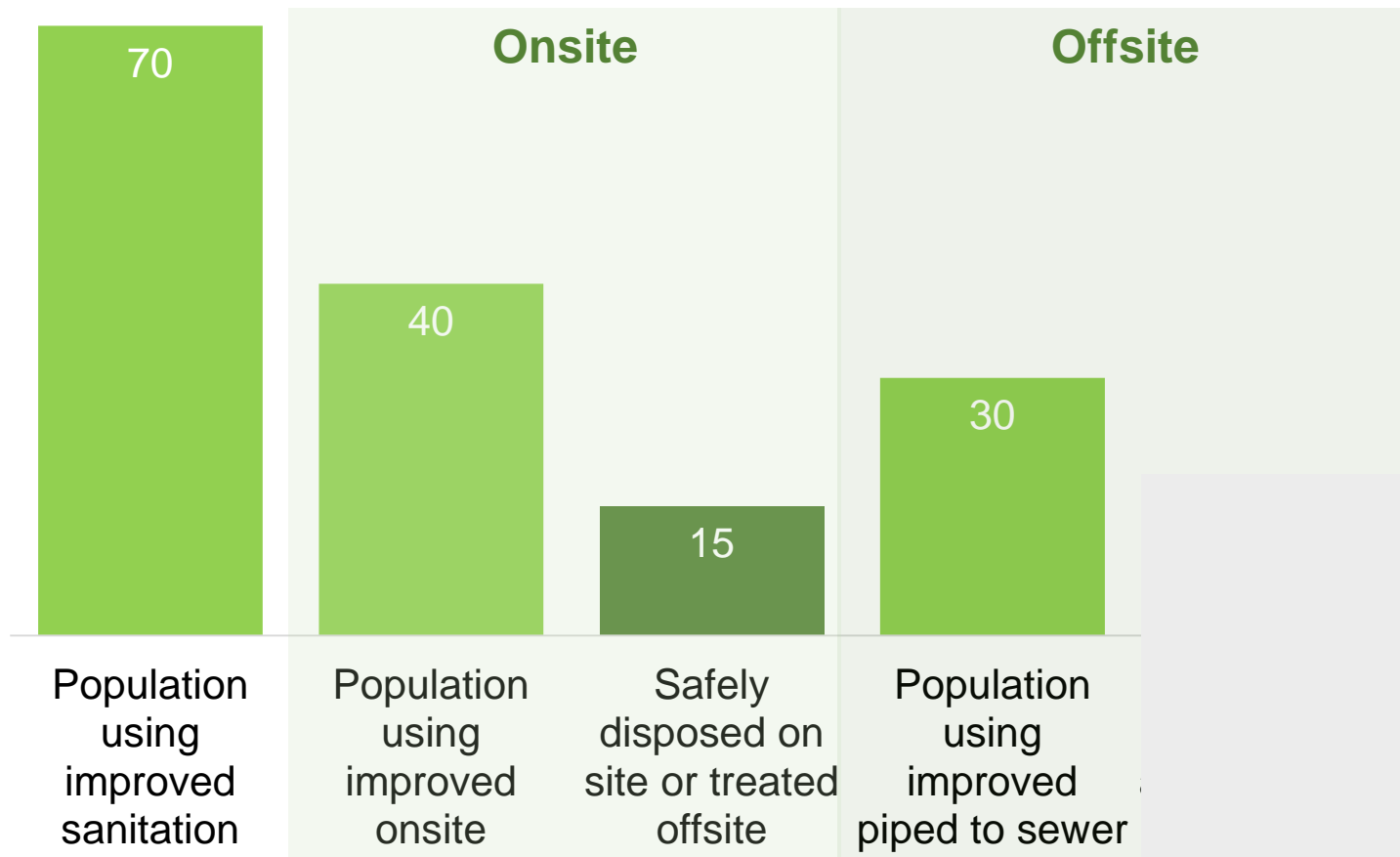


Population
using
improved
sanitation

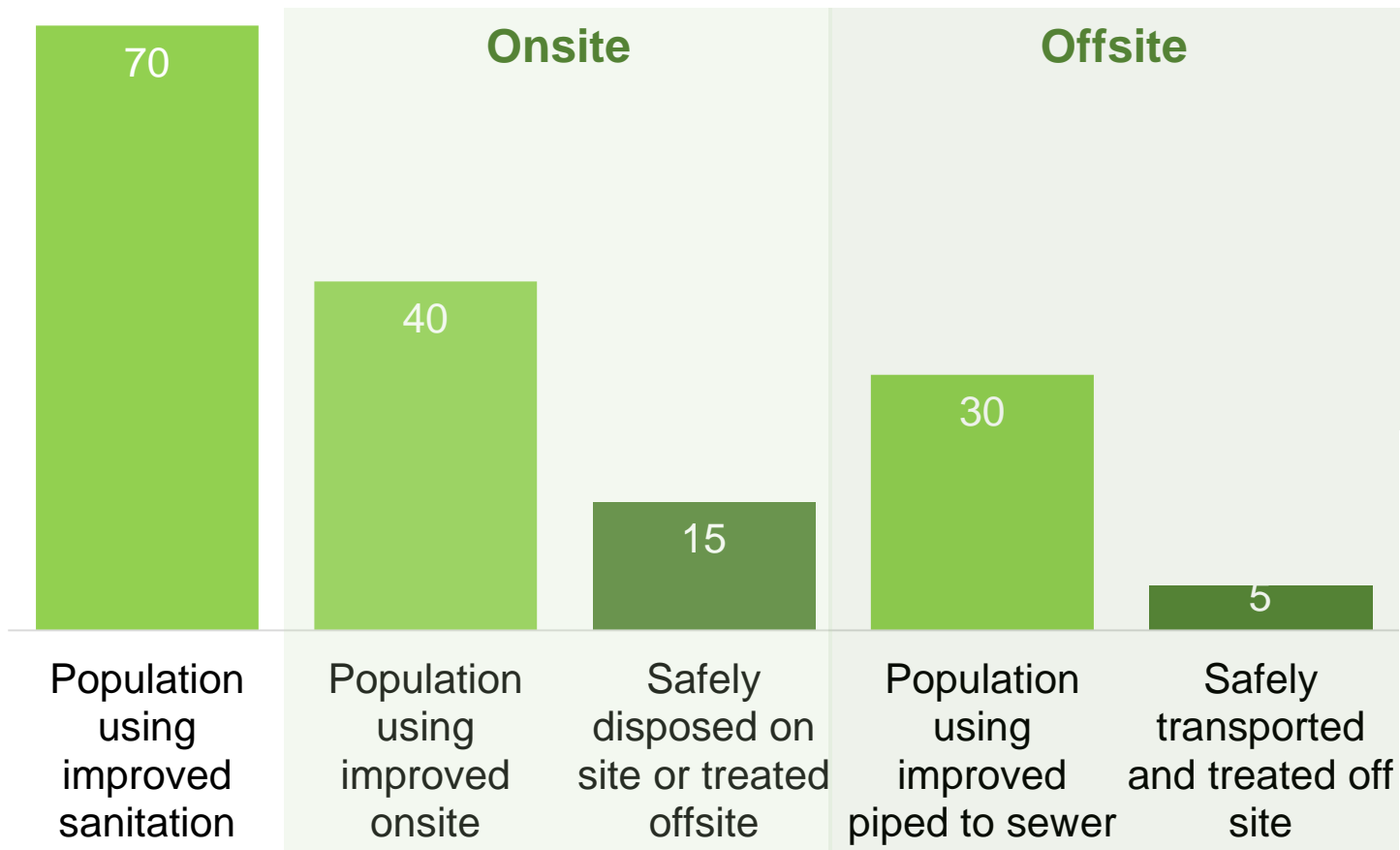
Example of Safely Managed Sanitation



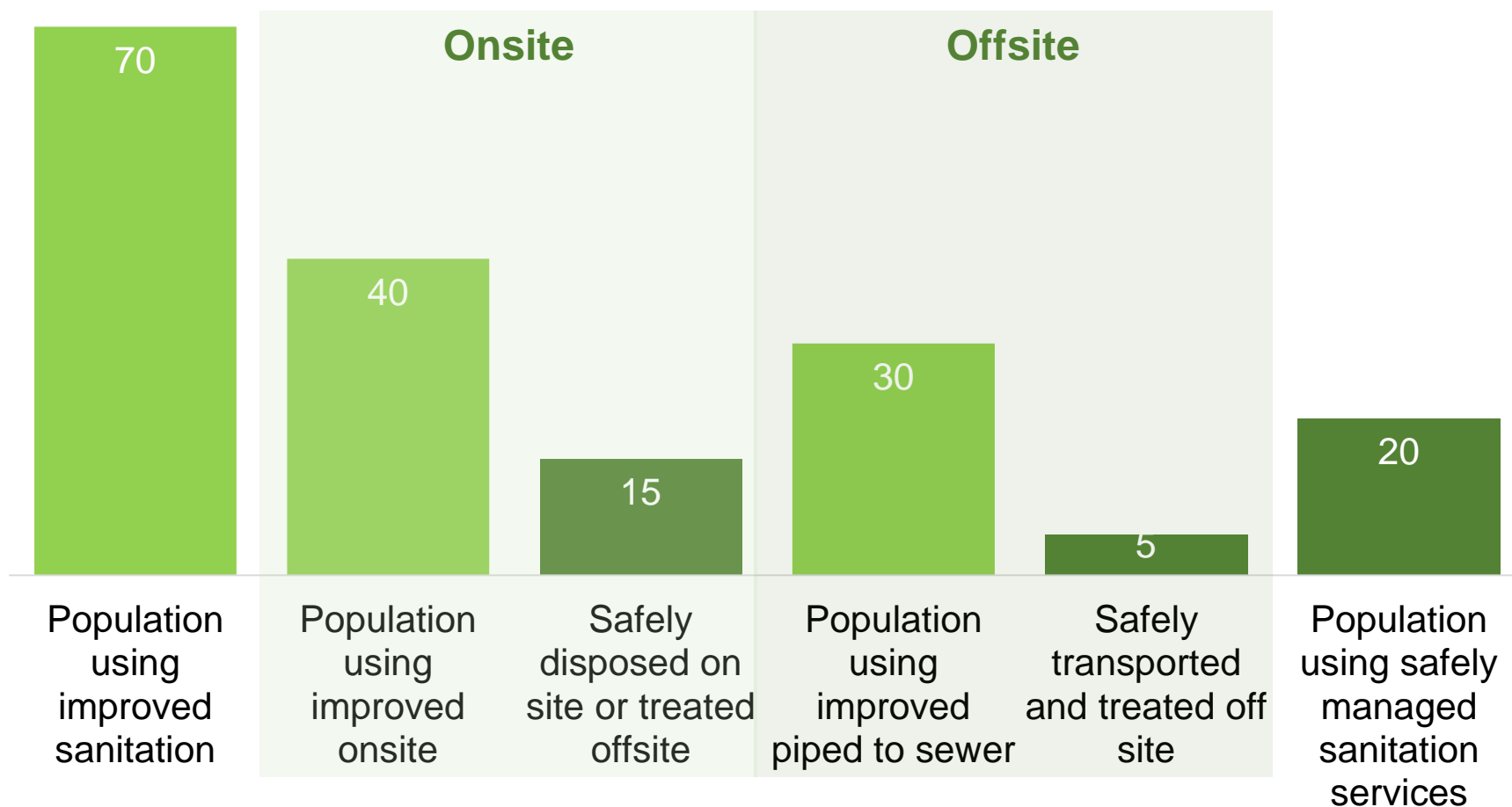
Example of Safely Managed Sanitation

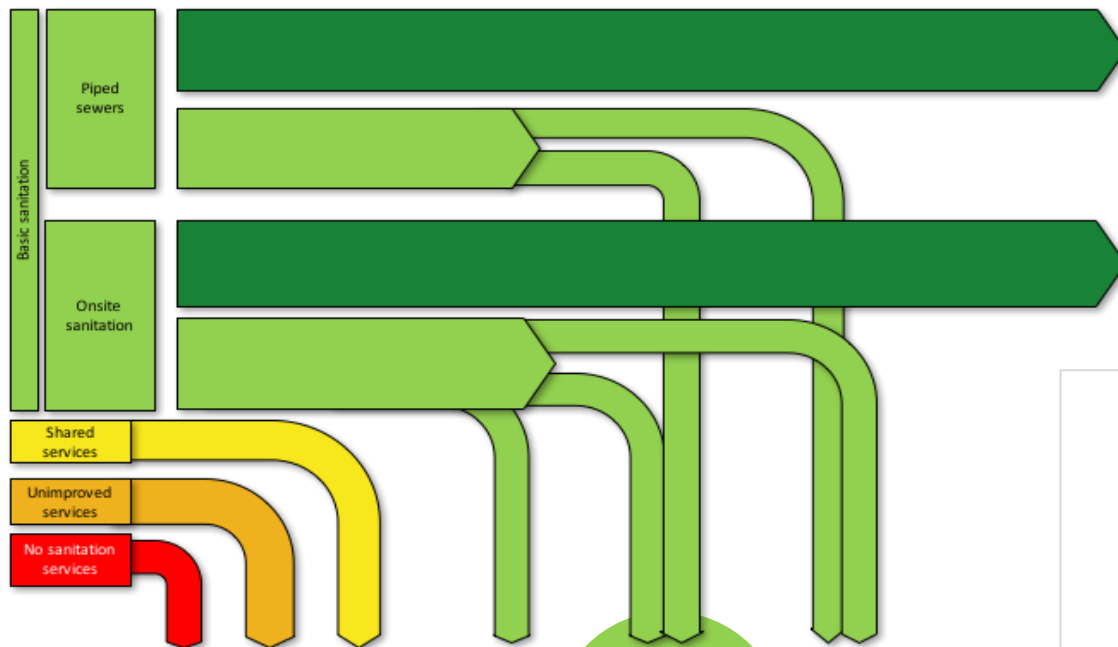


Example of Safely Managed Sanitation



Example of Safely Managed Sanitation

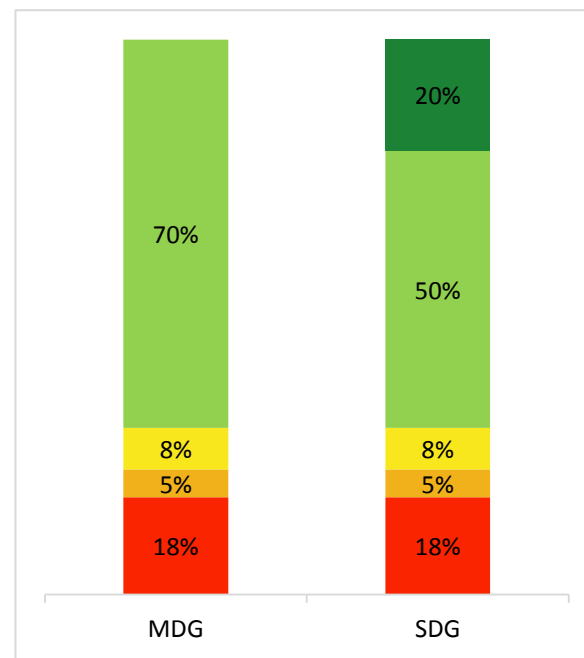




20%

Safely Managed Services

18% Open defecation
 5% Unimproved
 8% Limited
 50% Basic



Spreadsheet Tool

Guidance note - simplified calculation of safely-managed servicesv4.xlsx - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Add-Ins Acrobat

B21 $=B11*B9/100$

Simplified template for calculating illustrative safely managed sanitation estimates
To use this template enter values in the orange cells, the others will update automatically

INPUTS (change the values in orange)	Value	Notes (include data source when available)
Setting:	Example setting	Add name of the setting, e.g. Urban Tanzania
Population practicing open defecation	17.50	e.g. from DHS 2015
Population using unimproved sanitation facilities	5.00	e.g. from DHS 2015
Population using shared sanitation facilities	7.50	e.g. from DHS 2015
Population using improved sanitation	70.00	e.g. from DHS 2015
Proportion of improved sanitation facilities which are:		
Improved onsite facility	57.71	Onsite sanitation facilities include latrines and septic tanks
Improved piped to user	42.29	Onsite sanitation facilities include sewer connections
Proportion of onsite facilities which are:		
Contained, emptied and transported to treatment	47.50	
Dispersed off-site	28.50	Proportion of facilities where excreta are safely disposed
Proportion of improved piped to user which:		
Reach treatment plants	100.00	Proportion of sewer connections where wastewater reach
Proportion of wastewater treated	17.50	Proportion of wastewater adequately treated

OUTPUTS	Value	Notes
Population using improved onsite	40	
Safely disposed onsite or treated off-site	15	
Not safely managed	26	
Population using improved piped to user	30	
Safely transported and treated off-site	5	
Not safely managed	24	
Population using basic sanitation facilities	50	Improves minus safely managed
Population using safely managed sanitation services	20	Calculated treating availability and quality independently

MDG vs SDG ladder

Legend: Improved (green), Shared (yellow), Unimproved (orange), Open defecation (brown), Safely managed (dark green), Basic (medium green), Limited (light green), Unimproved (yellow), Open defecation (brown)

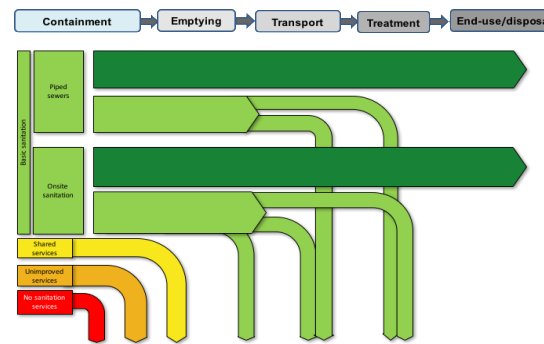
Adjustment for safely-managed

Legend: Population using improved sanitation (green), Population using improved onsite (medium green), Safely disposed onsite or treated off-site (dark green), Population using improved piped to user (light green), Safely transported and treated off-site (yellow), Population using safely managed sanitation services (dark green)

Links between Targets 6.2 and 6.3

- “Proportion of wastewater safely treated”

- Common elements
 - Mass flow approach



- Differences

- 6.2 includes open defecation and on-site wastes
- 6.3 includes more on treatment and reuse
- 6.3 includes commercial and hazardous industrial wastes

6.3 Treatments and exposures

Design Treatment level	<u>High exposure</u> (reuse for restricted irrigation and/or disposal in water used for drinking)	<u>Medium exposure</u> (reuse for unrestricted irrigation, disposal in large water body)	<u>Low exposure</u> (long ocean outfall, river water)
Advanced treatment of effluent and sludges (pathogen minimization)	Safely treated	Safely treated	Safely treated
Tertiary treatment (enhanced pollutants removal)	Safely treated	Safely treated	Safely treated
Secondary treatment	Not safely treated	Safely treated	Safely treated
Primary treatment only	Not safely treated	Not safely treated	Safely treated
Untreated discharge into water bodies	Not safely treated	Not safely treated	Not safely treated

6.3 Domestic and industrial wastewater

- Domestic wastewater
 - Sewerage, plus deliveries of sludge from onsite
- Industrial wastewater
 - Non-hazardous
 - Hazardous
 - Treated on-site, discharged to environment
 - Discharged to sewers (with or without treatment)

Preliminary mapping for 6.2: data availability (# of datasets)

MDG Region	Surveys (Improved)	Surveys (Shared)	Sectoral (Wastewater)
Causasus and Central Asia	53	15	9
Developed Countries	372	55	101
Eastern Asia	28	7	20
Latin America and the Caribbean	340	120	83
Northern Africa	32	9	9
Oceania	50	17	16
Sub-Saharan Africa	471	157	15
Southern Asia	92	24	4
South-eastern Asia	108	31	8
Western Asia	40	13	22
World	1,586	448	287

Improved facilities, not shared

- Household surveys and censuses
 - Facility classification
 - Shared or not (some surveys)
- Sector data
 - Connection to sewerage
 - Little to no data on septic tanks and latrines
 - Little to no data on sharing

Safely treated off-site

- Household surveys and censuses
 - Connected to sewer line
 - No information about if wastes reach treatment plant
- Sector data
 - Wastewater treatment
 - Primary, secondary. Possibly reuse and exposures?
 - Little to no information on faecal sludge management (from onsite systems)

Safely disposed onsite

- Household surveys and censuses
 - New questions:
 - Has pit latrine/septic tank ever been emptied?
- Sector data

Data completeness assessment

- Many of the sector data are incomplete
 - Geographically
 - Formal supplies only, no information for rural areas
 - Wastes lost in transport
 - On-site sanitation
- Global estimates may require assumptions
 - As long as they don't affect too much population
 - Results in less robust assessment (lower grade)

Data completeness score

4

- NSO endorses all data sources used
- Assumptions affect < 10% of the population

3

- Assumptions affect < 10% of the population

2

- Assumptions affect 10-25% of the population

1

- Assumptions affect 25-50% of the population
- Estimate made in JMP reports but not sent to UNSD

0

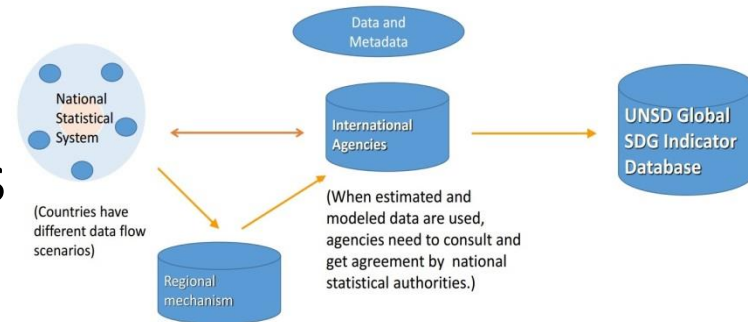
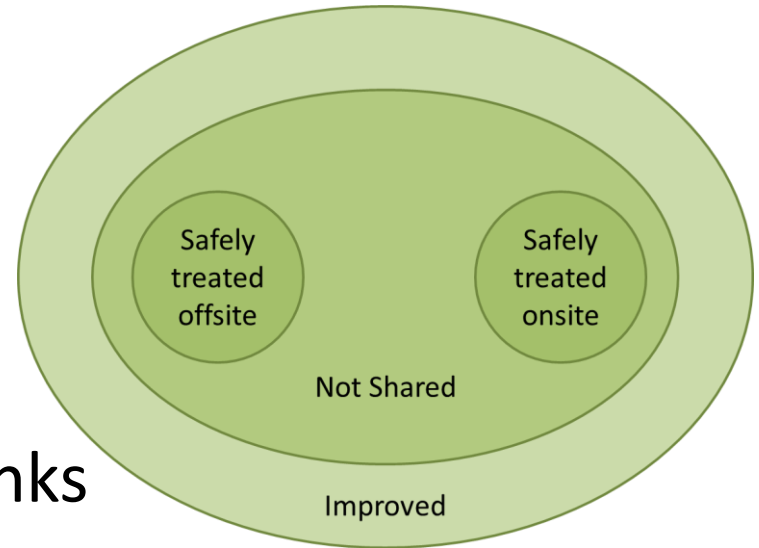
- Assumptions affect > 50% of the population
- No estimate made

Examples of assumptions

- 5% of the population uses latrines, no information on if these are improved
 - Assume 50% improved, Grade 3
- 20% of the population uses septic tanks, no information on emptying or safe disposal
 - Assume 50% safely disposed on site, Grade 2
- 40% of the population uses rural latrines, no information on emptying or safe disposal
 - Assume 50% safely disposed on site, Grade 1

Putting it all together

- Additive approach
 - Safely managed wastes from sewerage
 - Safely managed wastes from pit latrines, septic tanks treated off-site
 - Safely managed wastes from pit latrines, septic tanks disposed of on-site



Target 6.2: Sanitation and hygiene

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

Emerging data on handwashing show that the presence of facilities with water and soap varies widely between countries and regions

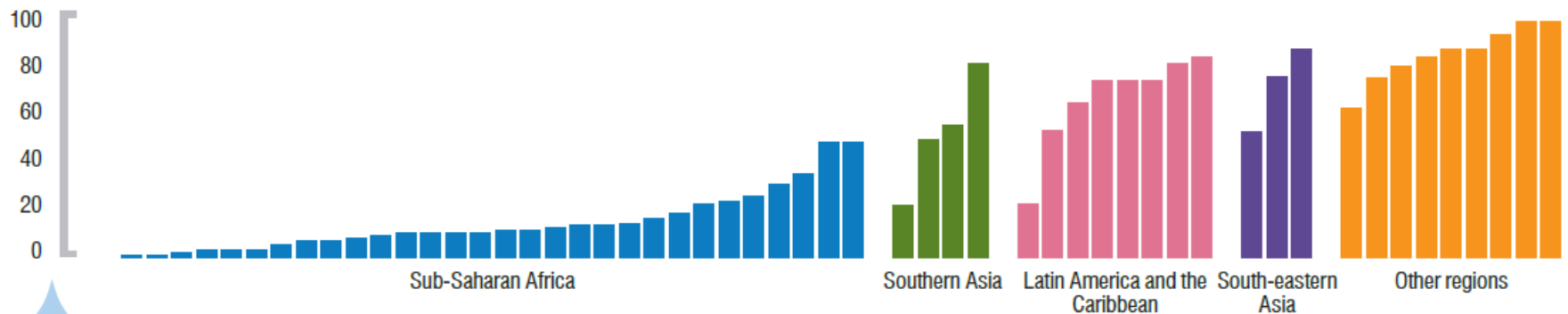
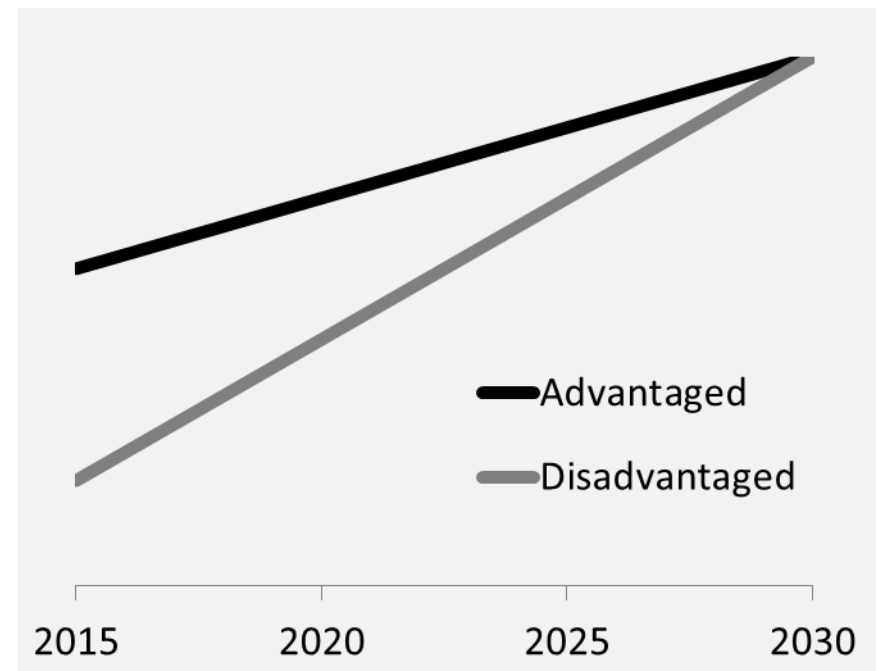


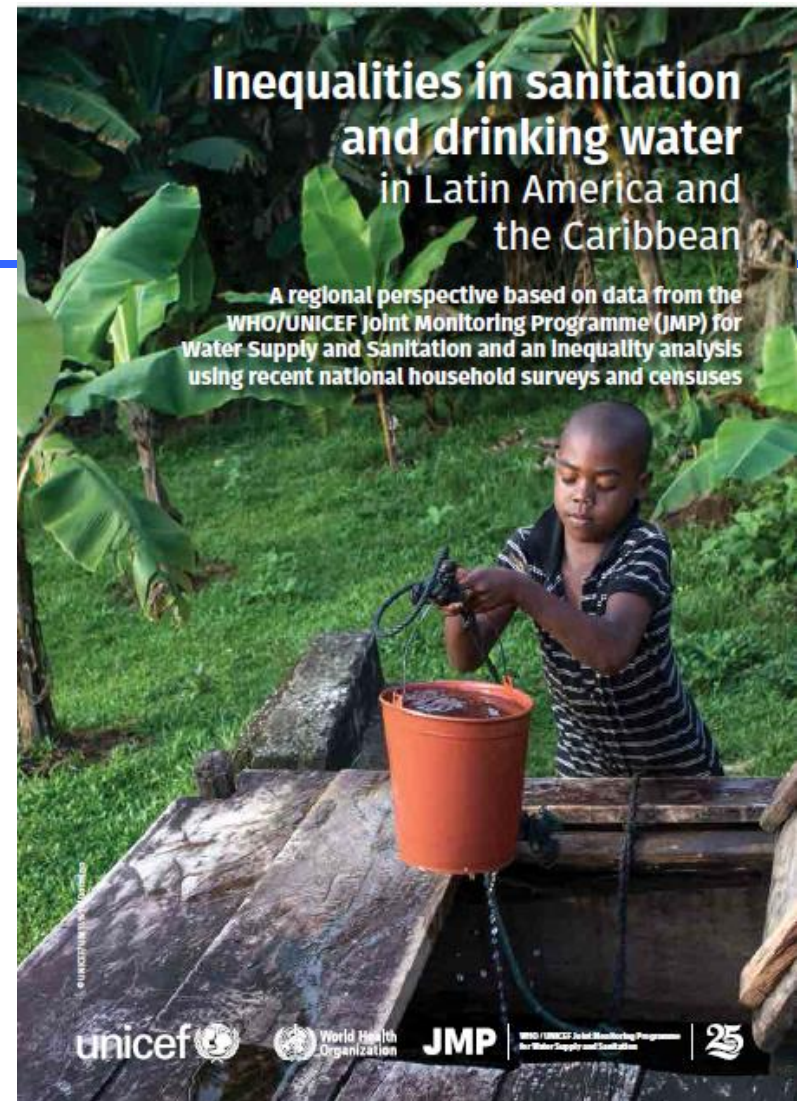
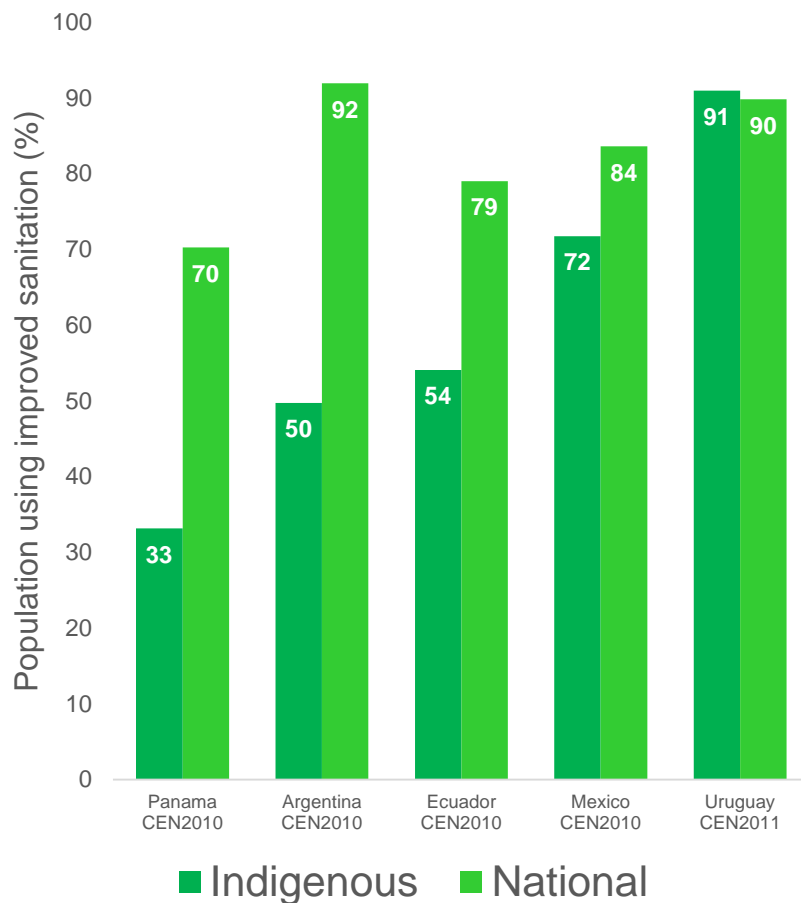
Fig.40 Proportion of the population with a handwashing facility with soap and water (2009-2014)

SDG targets 'leave no one behind'

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

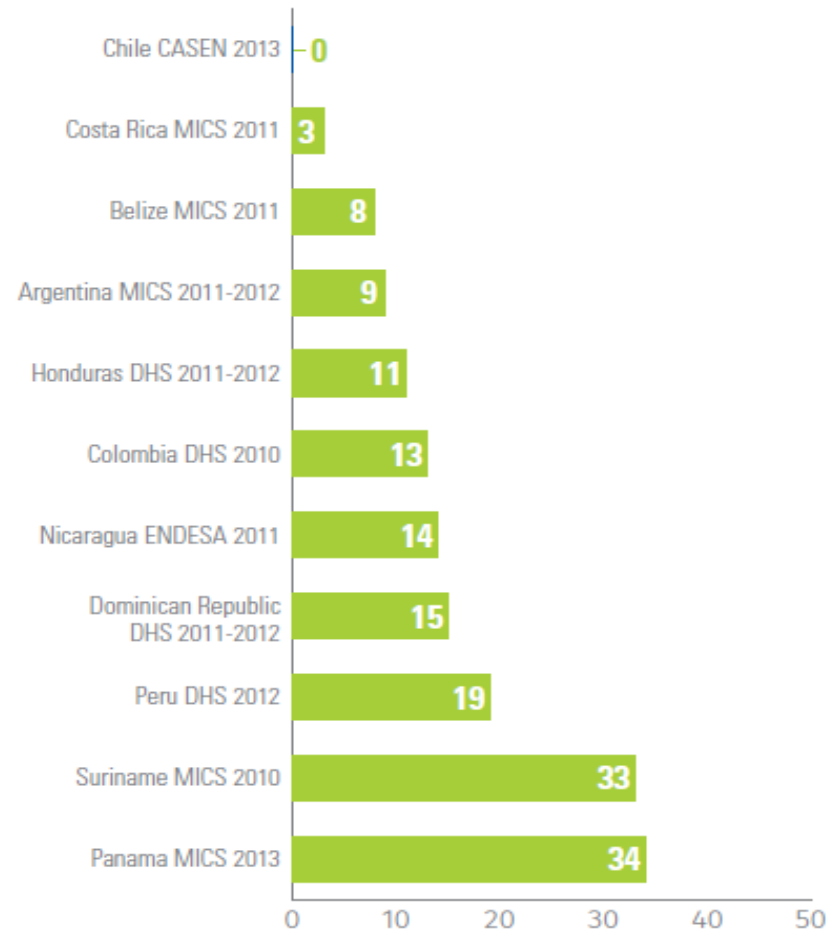
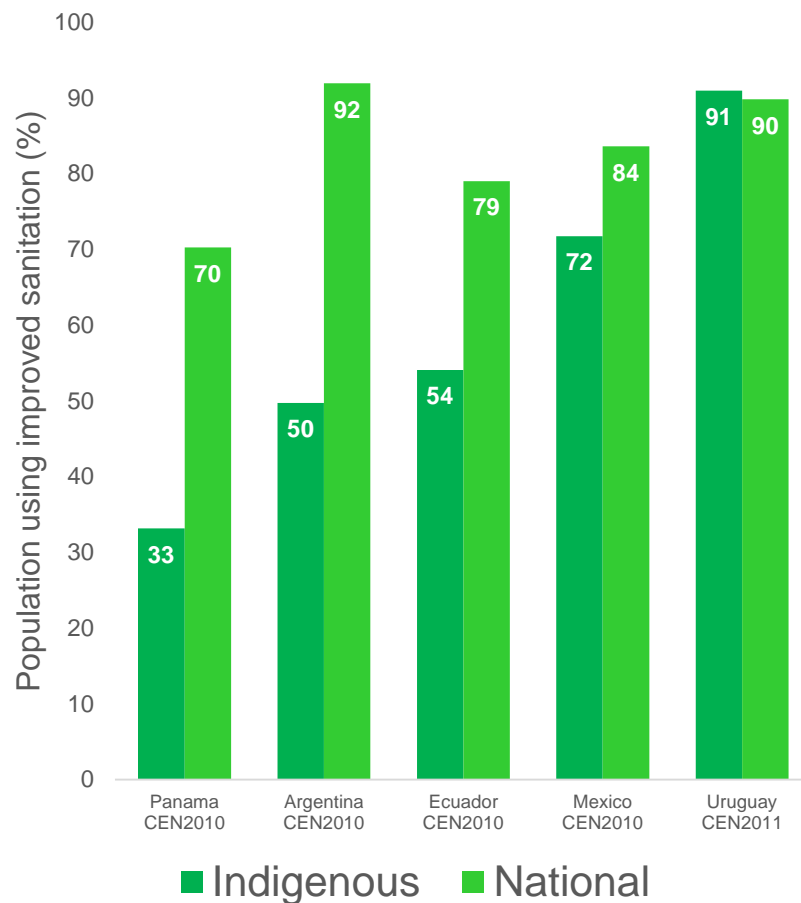


Gap between indigenous and national populations



Gap between indigenous and national populations

Gap between national and those with no formal education



Next steps

- Data collection through end of 2016
 - September: data request to regional and country offices
- Data analysis through end of 2016
 - Produce estimates and data completeness grades
- Country consultation on estimates, early 2017
- Publish 2017 baseline report, mid-2017

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