

A snapshot of Drinking Water, Sanitation and Hygiene  
in the WHO Eastern Mediterranean Region

**2017 Update and  
SDG Baselines**

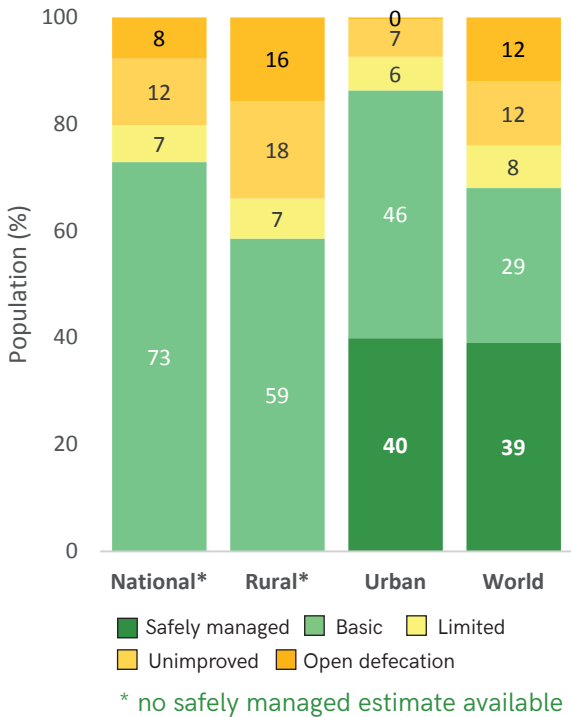
Prepared by:  
WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene  
September 2017



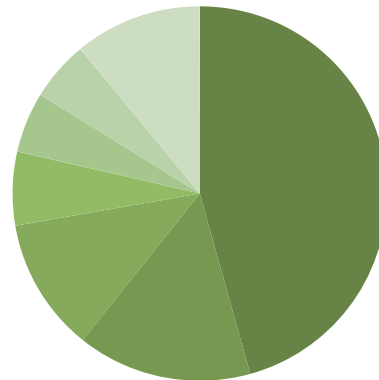


# Sanitation coverage

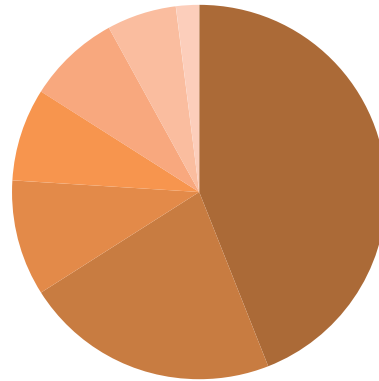
Proportion of population using safely managed, basic, limited, unimproved sanitation services or practising open defecation, 2015



174 million people in the WHO Eastern Mediterranean Region lacked a basic sanitation service in 2015, 50 million of whom practise open defecation

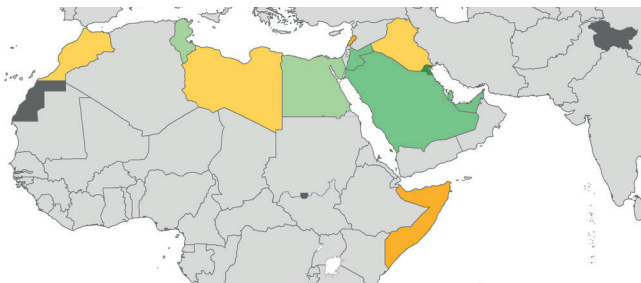


Number of people without basic sanitation services in 2015 (million)



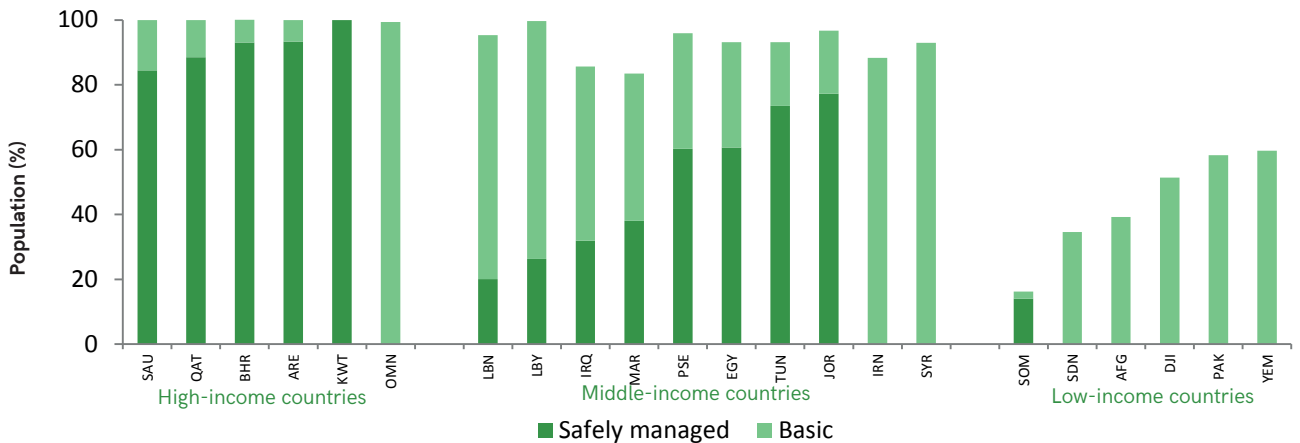
Number of people practising open defecation in 2015 (million)

Safely managed sanitation estimate is available for 14 countries in the region



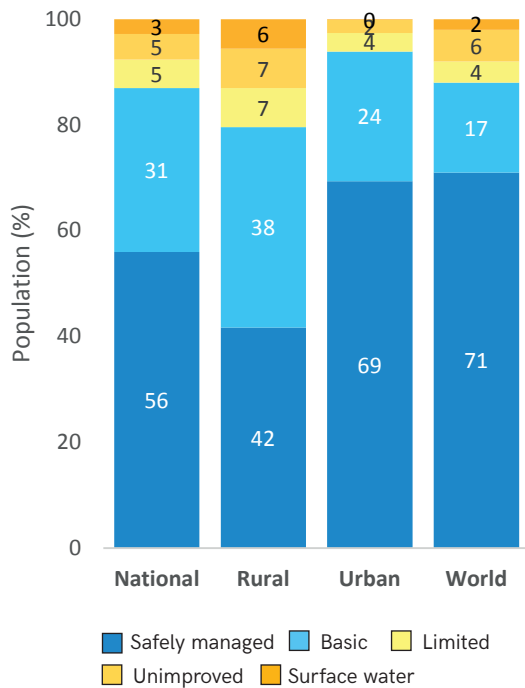
Safely managed - national

Coverage Level	Countries
<25%	Yemen, Afghanistan, Somalia, Morocco
25-50%	Iran, Sudan, Pakistan
50-75%	None
75-95%	None
>95%	None
Insufficient data	None
Not applicable	None

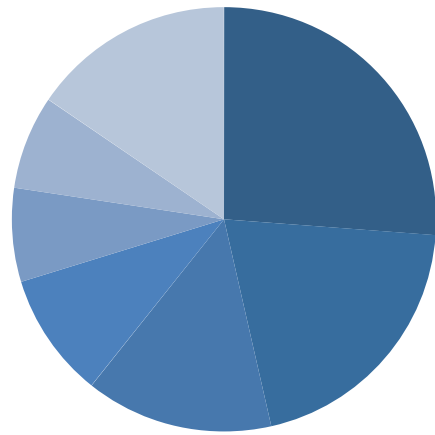


# Drinking water coverage

Proportion of population using safely managed, basic, limited, unimproved water services or surface water, 2015



84 million people in the WHO Eastern Mediterranean Region lacked a basic drinking water service in 2015, 76% of whom live in rural areas



- Pakistan, 22
- Sudan, 17
- Afghanistan, 12
- Yemen, 8
- Somalia, 6
- Morocco, 6
- Rest of the Region, 13

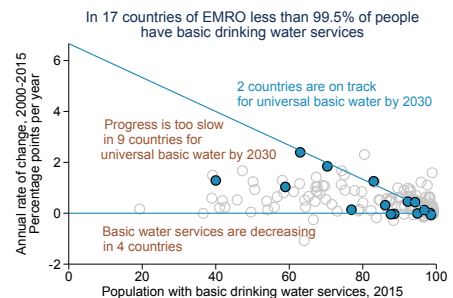
Countries in the region with the highest number of people who did not use a basic water service in 2015

◆ Safely managed drinking water estimate is available for nine countries in the region



Safely managed - national

- <25%
- 25-50%
- 50-75%
- 75-95%
- >95%
- Insufficient data
- Not applicable



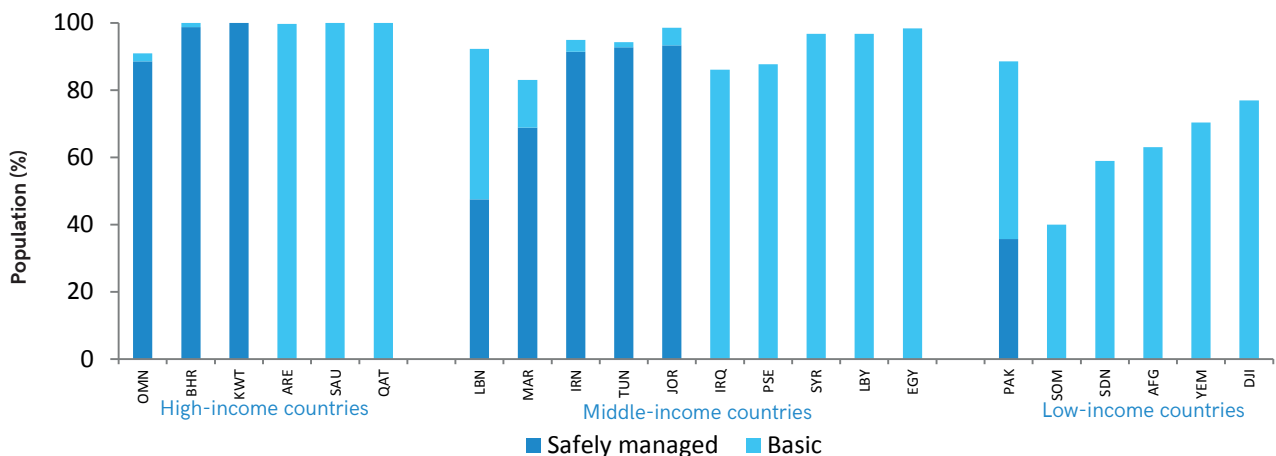
Already reached the target: ARE, BHR, KWT, QAT, SAU

On track: MAR, TUN

Progress too slow: AFG, DJI, EGY, IRQ, LBN, SDN, SOM, SYR, YEM

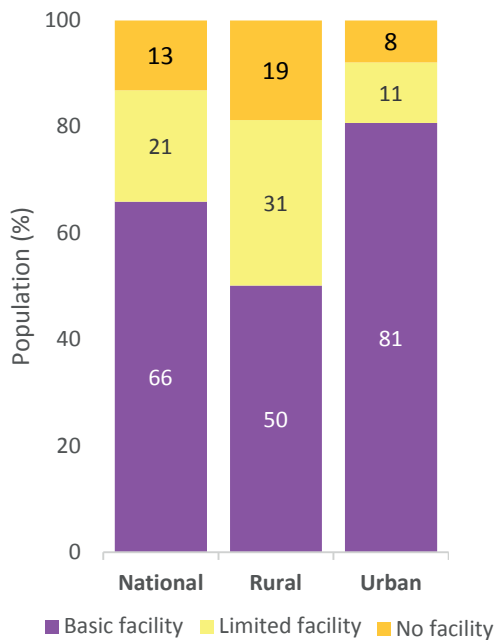
Basic water services decreasing: IRN, JOR, PAK, PSE

OMN and LBY have not been assessed (missing 2000 baseline)

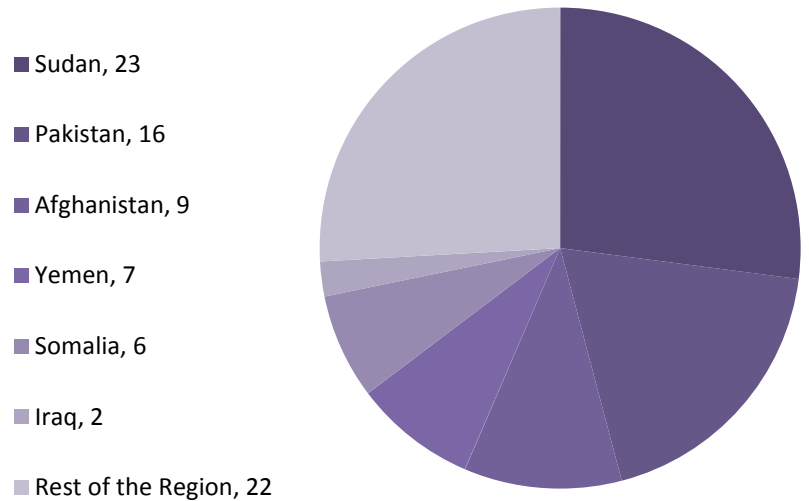


# Hygiene coverage

Proportion of population with basic, limited handwashing facilities or no facility in 2015

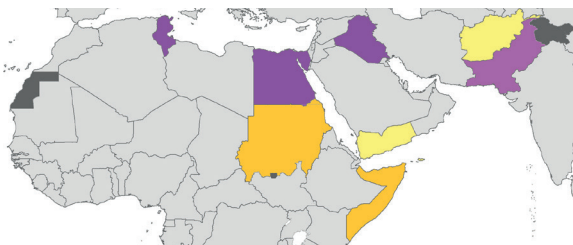


219 million people in the WHO Eastern Mediterranean Region lacked a basic handwashing facility in 2015, 85 million of whom had no facility

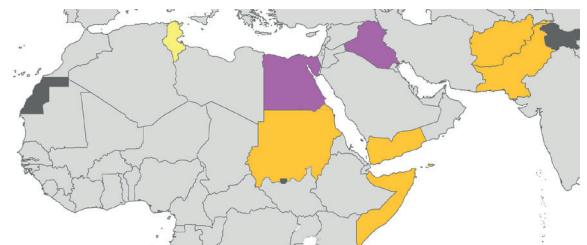


Countries in the region with the highest number of people without handwashing facilities in 2015

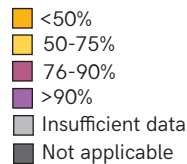
urban coverage of basic handwashing facilities exceeds 50% in 6 countries, rural coverage exceeds 50% in 3 countries



Basic - urban



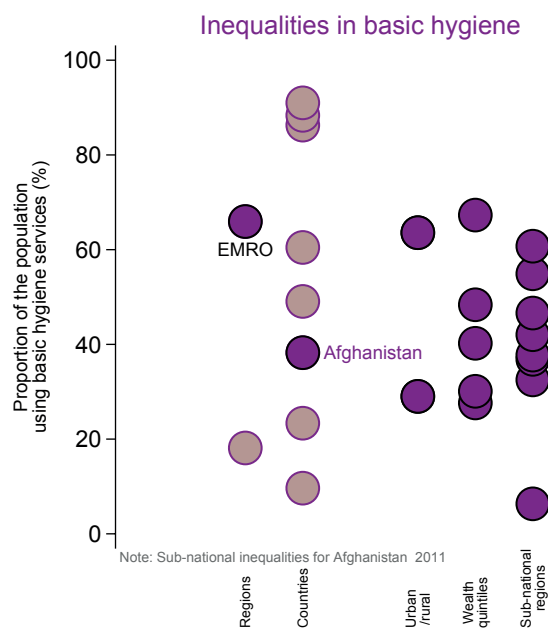
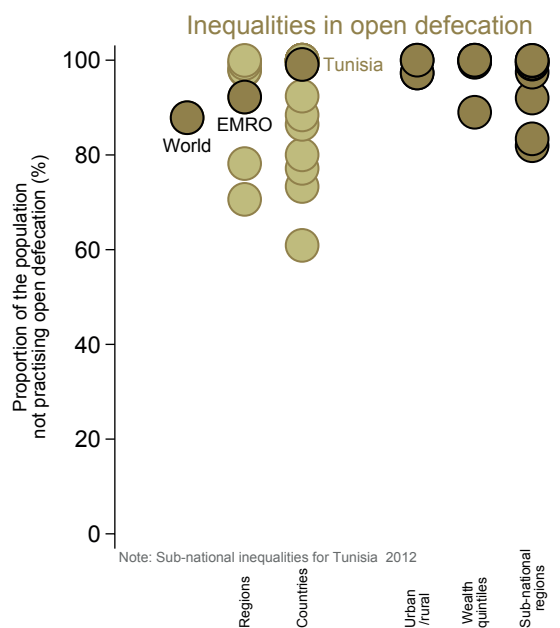
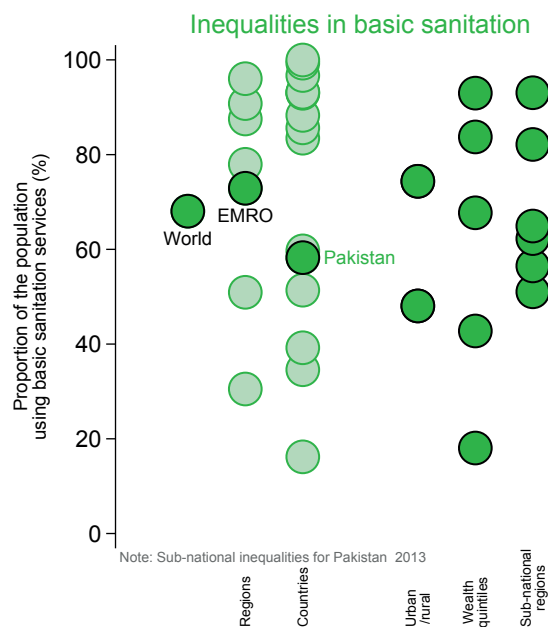
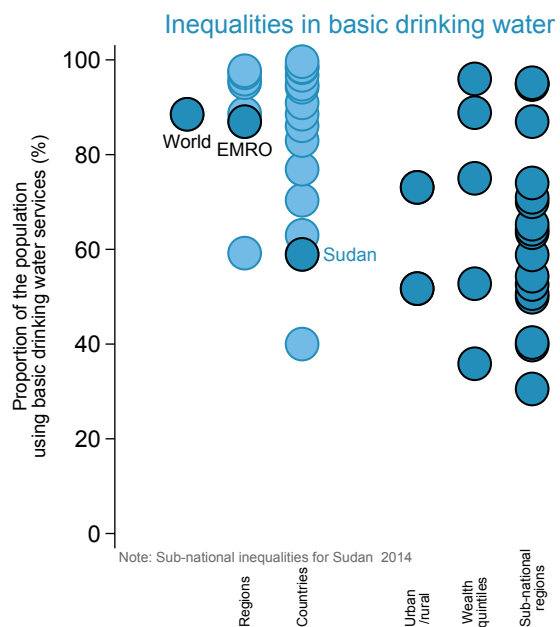
Basic - rural



COUNTRY, AREA OR TERRITORY	Year	Population (thousands)	% urban	NATIONAL			RURAL			URBAN		
				Basic	Limited (without water or soap)	No facility	Basic	Limited (without water or soap)	No facility	Basic	Limited (without water or soap)	No facility
Afghanistan	2015	32 527	27	38	34	28	29	38	33	64	23	13
Egypt	2015	91 508	43	88	11	1	85	14	0	92	6	2
Iraq	2015	36 423	69	91	4	5	81	7	12	95	2	2
Pakistan	2015	188 925	39	60	31	8	46	43	11	83	12	5
Somalia	2015	10 787	40	10	34	56	8	35	57	12	34	54
Sudan	2015	40 235	34	23	19	57	19	21	60	32	16	52
Tunisia	2015	11 254	67	86	8	6	67	18	15	96	3	2
Yemen	2015	26 832	35	49	26	25	38	29	33	71	20	9
WHO Eastern Mediterranean Region	2000	471 134	47	-	-	-	-	-	-	-	-	-
WHO Eastern Mediterranean Region	2015	648 453	51	66	21	13	50	31	19	81	11	8

"-" = no estimate; NA = data not applicable; for unrounded estimates see [www.washdata.org](http://www.washdata.org)

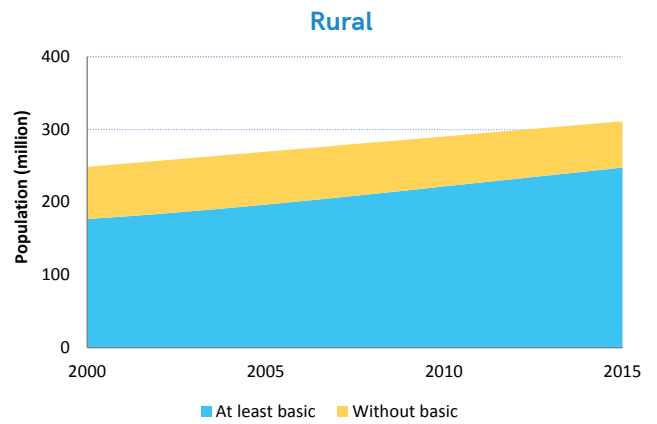
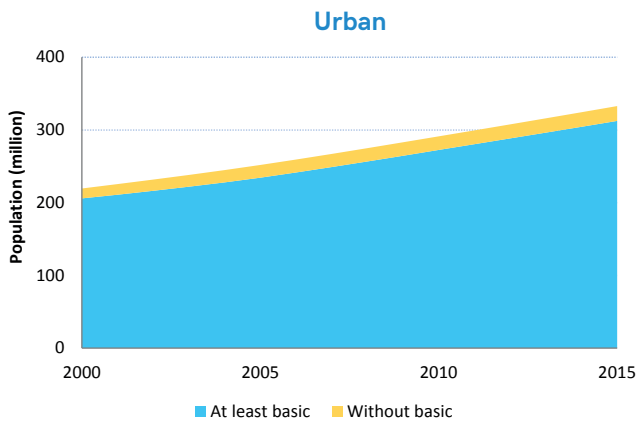
# Inequalities



Note: EMRO - WHO Eastern Mediterranean Region

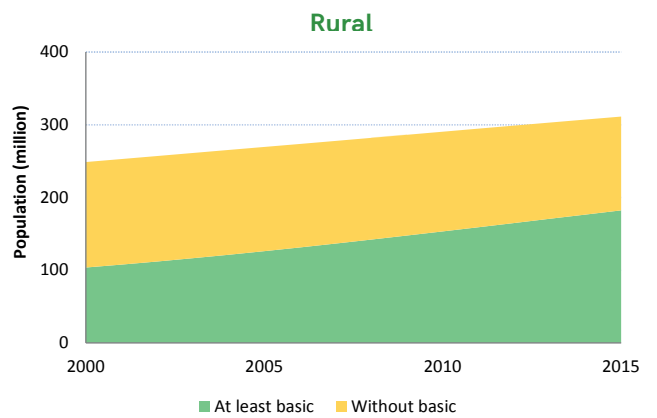
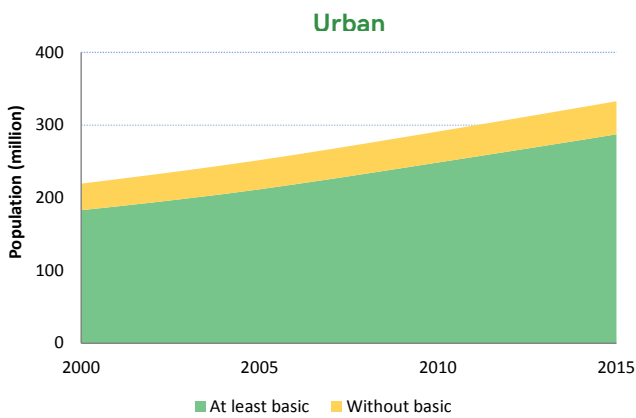
# Trends

## Drinking water



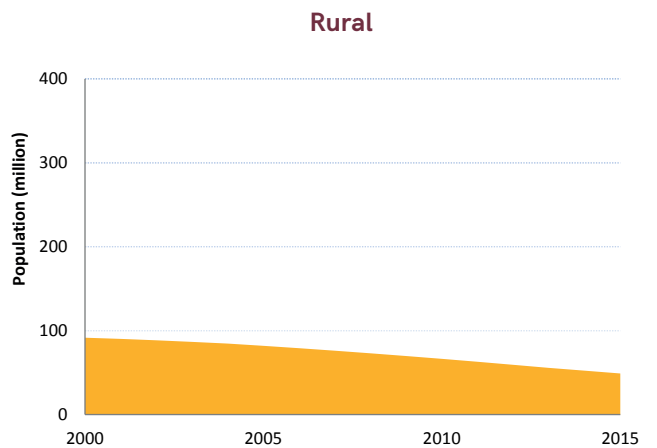
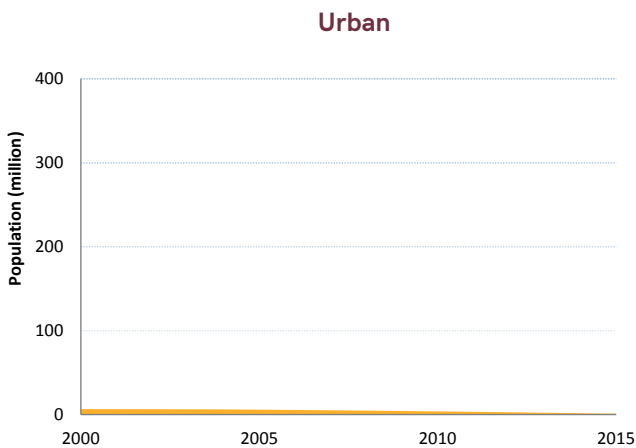
In 2015, 93.9% of the urban population and 79.6% of the rural population used a basic drinking water service.

## Sanitation



In 2015, 86.3% of the urban population and 58.5% of the rural population used a basic sanitation service.

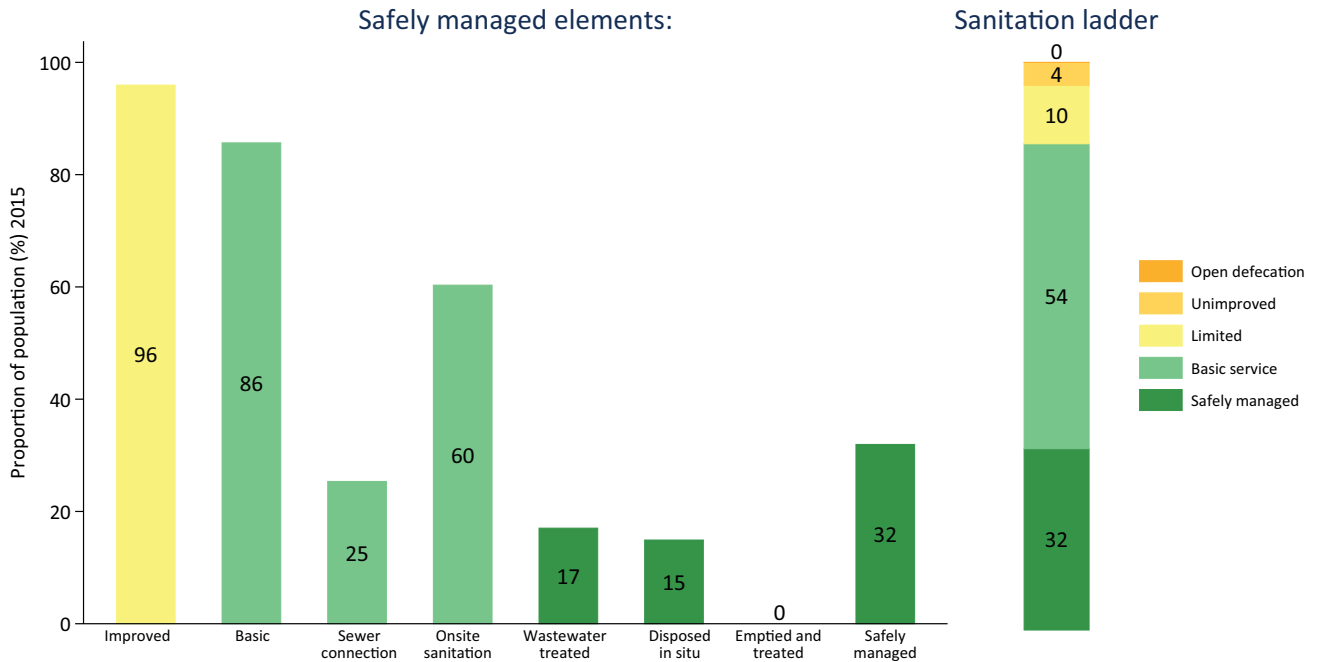
## Open defecation



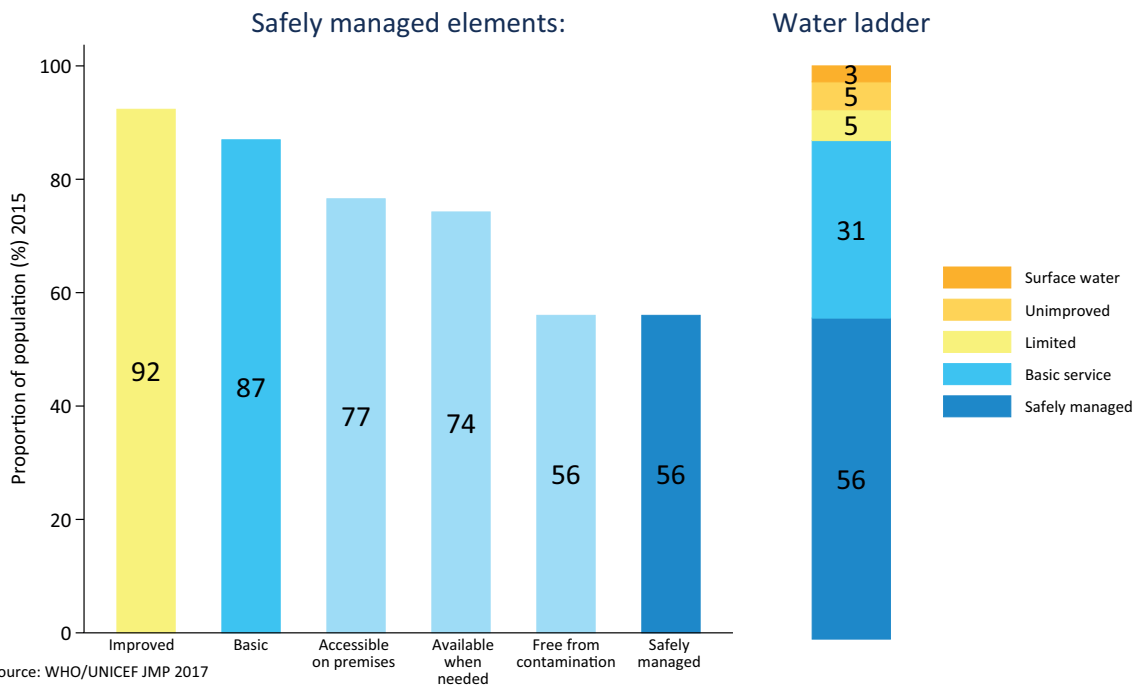
In 2015, 0.3% of the urban population and 15.7% of the rural population practised open defecation.

# Safely managed services

Safely managed sanitation (2015)  
Iraq, national



Safely managed drinking water (2015)  
WHO Eastern Mediterranean Region, Total



Source: WHO/UNICEF JMP 2017





# Sanitation estimates

COUNTRY, AREA OR TERRITORY	Year	NATIONAL Proportion of population using improved sanitation facilities (excluding shared)							RURAL Proportion of population using improved sanitation facilities (excluding shared)							URBAN Proportion of population using improved sanitation facilities (excluding shared)						
		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	2000	-	-	-	-	17	6	2	-	-	-	-	20	1	1	-	-	-	-	7	19	5
	2015	-	-	-	-	30	7	3	-	-	-	-	31	1	1	-	-	-	-	30	19	7
Bahrain	2000	93	7	0	87	13	0	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	93	7	0	87	13	0	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Djibouti	2000	-	-	-	-	36	10	5	-	-	-	-	13	0	0	-	-	-	-	43	13	6
	2015	-	-	-	-	36	10	5	-	-	-	-	13	0	0	-	-	-	-	43	13	6
Egypt	2000	53	33	0	20	61	5	27	-	-	-	3	79	7	4	62	19	0	43	36	2	59
	2015	61	17	0	43	12	22	58	-	-	-	26	20	36	34	70	3	0	67	3	3	91
Iran (Islamic Republic of)	2000	-	-	-	-	63	0	24	-	-	-	-	68	0	11	-	-	-	-	59	0	32
	2015	-	-	-	-	63	1	24	-	-	-	-	77	1	1	-	-	-	-	58	1	33
Iraq	2000	21	7	0	14	10	44	20	11	11	0	1	15	39	1	25	6	0	20	8	47	29
	2015	32	15	0	17	27	33	25	26	24	0	2	40	42	3	35	12	0	23	21	29	35
Jordan	2000	77	22	0	55	1	43	55	-	-	-	3	2	92	3	83	15	0	68	0	31	68
	2015	77	19	0	58	0	39	58	-	-	-	6	0	90	6	82	14	0	68	0	29	68
Kuwait	2000	100	0	0	100	0	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	100	0	0	100	0	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lebanon	2000	16	8	0	9	14	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	20	9	0	11	17	1	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Libya	2000	29	19	0	10	30	8	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	26	16	0	11	23	8	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morocco	2000	31	13	0	18	18	9	42	-	-	-	0	31	14	2	38	6	0	32	6	5	76
	2015	38	17	0	21	10	24	49	-	-	-	0	22	49	3	39	5	0	34	2	8	79
Oman	2000	-	-	-	-	9	0	79	-	-	-	1	0	75	1	-	-	-	13	0	80	13
	2015	-	-	-	-	10	5	85	-	-	-	1	10	88	1	-	-	-	13	3	84	13
Pakistan	2000	-	-	-	-	0	14	17	-	-	-	-	0	11	3	-	-	-	-	1	20	46
	2015	-	-	-	-	8	27	23	-	-	-	-	11	33	4	-	-	-	-	3	17	54
Qatar	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	88	12	0	77	23	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	2000	64	34	0	29	68	1	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	84	16	0	69	30	1	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Somalia	2000	20	19	0	0	22	0	0	8	8	0	0	8	0	0	43	43	0	0	49	1	0
	2015	14	14	0	0	16	0	0	7	7	0	0	8	0	0	24	24	0	0	28	0	0
Sudan	2000	-	-	-	-	20	1	0	-	-	-	-	11	0	0	-	-	-	-	38	3	1
	2015	-	-	-	-	29	5	1	-	-	-	-	22	1	0	-	-	-	-	43	12	2
Syrian Arab Republic	2000	-	-	-	-	19	6	68	-	-	-	-	37	10	43	-	-	-	-	2	1	92
	2015	-	-	-	-	17	5	71	-	-	-	-	36	10	43	-	-	-	-	2	1	92
Tunisia	2000	58	18	0	40	6	29	45	-	-	-	4	16	36	5	74	12	0	62	1	23	71
	2015	73	18	0	56	24	12	58	-	-	-	7	56	20	7	89	6	0	82	6	7	85
United Arab Emirates	2000	93	7	0	86	2	11	87	81	18	0	63	6	31	63	95	4	0	92	1	6	93
	2015	93	6	0	88	2	10	88	81	18	0	63	6	31	63	95	4	0	92	1	6	93
West Bank and Gaza Strip	2000	58	25	0	32	0	51	44	-	-	-	7	0	87	10	61	19	0	42	0	37	56
	2015	60	23	0	38	16	29	51	-	-	-	8	32	57	10	63	16	0	47	11	21	63
Yemen	2000	-	-	-	3	26	7	8	-	-	-	0	24	3	0	53	26	0	27	34	18	32
	2015	-	-	-	8	9	25	27	-	-	-	0	10	27	6	67	12	0	56	5	18	67
WHO Eastern Mediterranean Region	2000	-	-	-	16	27	10	24	-	-	-	4	27	9	6	29	-	-	29	27	11	45
	2015	-	-	-	24	21	18	34	-	-	-	8	22	25	11	40	-	-	40	20	11	56

# Drinking water estimates

COUNTRY, AREA OR TERRITORY	ISO3	Year	Population (thousands)	% urban	NATIONAL					RURAL					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	AFG	2000	19 702	21	27	2	46	24		21	2	49	28		50	3	37	10	
		2015	32 527	27	63	6	16	15	2.39	53	6	20	20	2.17	89	4	6	1	2.62
Bahrain	BHR	2000	667	88	100	-	0	0		-	-	-	-		-	-	-	-	
		2015	1 377	89	100	-	0	0	0.01	-	-	-	-	-	-	-	-	-	-
Djibouti	DJI	2000	723	77	75	15	9	1		51	13	32	4		82	15	3	0	
		2015	888	77	77	15	6	2	0.14	55	14	24	7	0.24	83	15	1	0	0.09
Egypt	EGY	2000	68 335	43	98	0	1	0		97	1	2	0		99	0	0	0	
		2015	91 508	43	98	0	1	0	0.01	98	1	2	0	0.02	99	0	1	0	-0.00
Iran (Islamic Republic of)	IRN	2000	65 850	64	95	2	3	0		89	4	6	1		98	1	1	0	
		2015	79 109	73	95	2	3	0	-0.01	89	4	6	0	0.01	97	1	2	0	-0.09
Iraq	IRQ	2000	23 575	68	81	2	5	12		52	6	11	31		95	0	3	3	
		2015	36 423	69	86	9	2	3	0.32	78	8	5	9	1.74	90	9	1	0	-0.35
Jordan	JOR	2000	4 767	80	100	-	0	0		99	-	1	0		100	-	0	0	
		2015	7 595	84	99	-	1	0	-0.07	97	-	3	0	-0.13	99	-	1	0	-0.06
Kuwait	KWT	2000	1 929	98	100	0	0	0		-	-	-	-		-	-	-	-	
		2015	3 892	98	100	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Lebanon	LBN	2000	3 235	86	85	7	8	0		-	-	-	-		-	-	-	-	
		2015	5 851	88	92	7	0	0	0.46	-	-	-	-	-	-	-	-	-	-
Libya	LBY	2000	5 337	76	-	-	-	-		-	-	-	-		-	-	-	-	
		2015	6 278	79	97	-	3	0	-	-	-	-	-	-	-	-	-	-	-
Morocco	MAR	2000	28 951	53	64	4	29	2		31	6	57	5		93	2	5	0	
		2015	34 378	60	83	7	7	3	1.26	64	13	16	8	2.16	96	2	2	0	0.19
Oman	OMN	2000	2 239	72	-	-	-	-		-	-	-	-		-	-	-	-	
		2015	4 491	78	91	9	0	0	-	78	22	0	0	-	95	5	0	0	-
Pakistan	PAK	2000	138 250	33	89	3	3	5		85	3	5	7		98	2	0	1	
		2015	188 925	39	89	3	6	2	-0.03	87	3	6	4	0.14	92	2	7	0	-0.41
Qatar	QAT	2000	593	96	100	-	0	0		-	-	-	-		-	-	-	-	
		2015	2 235	99	100	-	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	SAU	2000	21 392	80	97	-	3	0		-	-	-	-		-	-	-	-	
		2015	31 540	83	100	-	0	0	0.21	-	-	-	-	-	-	-	-	-	-
Somalia	SOM	2000	7 385	33	21	9	36	35		7	6	39	48		48	14	29	8	
		2015	10 787	40	40	19	29	12	1.29	20	18	43	19	0.90	70	20	9	1	1.44
Sudan	SDN	2000	28 080	32	43	19	29	8		35	18	35	11		60	21	16	3	
		2015	40 235	34	59	26	6	9	1.03	52	27	8	13	1.09	73	25	1	1	0.85
Syrian Arab Republic	SYR	2000	16 354	52	95	2	3	0		90	4	6	1		100	1	0	0	
		2015	18 502	58	97	2	1	0	0.13	94	4	2	0	0.28	99	0	1	0	-0.05
Tunisia	TUN	2000	9 699	63	88	4	7	1		70	11	17	2		98	0	2	0	
		2015	11 254	67	94	4	1	0	0.44	83	12	4	0	0.86	100	0	0	0	0.14
United Arab Emirates	ARE	2000	3 050	80	100	-	0	0		100	-	0	0		100	-	0	0	
		2015	9 157	86	100	-	0	0	-0.00	100	-	0	0	0.00	100	-	0	0	0.00
West Bank and Gaza Strip	PSE	2000	3 224	72	88	0	10	1		84	1	12	3		90	0	9	1	
		2015	4 668	75	88	0	12	0	-0.04	94	1	5	0	0.64	86	0	14	0	-0.28
Yemen	YEM	2000	17 795	26	43	12	40	5		30	12	53	6		79	14	6	1	
		2015	26 832	35	70	21	4	5	1.84	63	25	6	7	2.20	85	15	0	0	0.38
WHO Eastern Mediterranean Region		2000	471 135	47	82	4	10	5		71	5	16	8		94	2	3	1	
		2015	648 452	52	87	5	5	3	0.35	80	7	7	6	0.56	94	4	2	0	0.01

"-" = no estimate; NA = data not applicable; for unrounded estimates see [www.washdata.org](http://www.washdata.org)

# Drinking water estimates

COUNTRY, AREA OR TERRITORY	Year	NATIONAL Proportion of population using improved water supplies					RURAL Proportion of population using improved water supplies					URBAN Proportion of population using improved water supplies								
		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	2000	-	14	-	-	6	23	-	8	-	-	2	21	-	38	-	-	-	21	31
	2015	-	40	-	-	12	56	-	26	-	-	6	54	-	76	-	-	-	30	63
Bahrain	2000	99	99	-	99	97	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	99	99	-	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Djibouti	2000	-	45	-	-	76	14	-	5	-	-	30	35	-	57	-	-	-	90	7
	2015	-	46	-	-	80	12	-	5	-	-	24	45	-	58	-	-	-	96	3
Egypt	2000	-	90	63	-	88	11	-	84	62	-	79	19	-	98	63	-	-	99	1
	2015	-	97	71	-	98	1	-	95	66	-	97	1	-	98	77	-	-	98	2
Iran (Islamic Republic of)	2000	91	91	-	94	91	6	83	83	-	86	83	11	96	96	-	98	-	96	3
	2015	91	91	-	94	93	4	83	83	-	86	87	7	94	94	-	97	-	95	3
Iraq	2000	-	75	38	-	76	7	-	32	26	-	41	17	-	95	44	-	-	92	2
	2015	-	71	69	-	82	13	-	66	46	-	65	22	-	72	80	-	-	90	9
Jordan	2000	94	95	94	99	97	3	-	90	91	-	86	13	-	97	95	-	-	100	0
	2015	93	95	93	98	86	12	-	88	90	-	80	17	-	96	94	-	-	87	12
Kuwait	2000	100	100	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	100	100	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lebanon	2000	44	83	65	44	84	8	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	48	89	88	48	85	14	-	-	-	-	-	-	-	-	-	-	-	-	-
Libya	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	-	85	-	-	41	56	-	-	-	-	-	-	-	-	-	-	-	-	-
Morocco	2000	55	55	67	61	59	9	19	19	34	31	19	19	86	86	95	87	95	0	
	2015	69	69	86	79	76	13	39	39	69	63	50	27	89	89	98	90	94	4	
Oman	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	89	89	-	97	88	12	-	75	-	-	73	27	-	93	100	-	-	92	8
Pakistan	2000	38	83	-	38	34	58	32	77	-	32	19	69	51	95	-	51	64	36	
	2015	36	77	-	36	33	58	32	75	-	32	19	71	41	80	-	41	55	38	
Qatar	2000	-	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	-	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	2000	-	79	-	-	60	36	-	-	-	-	-	-	-	-	-	-	-	-	-
	2015	-	99	-	-	98	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Somalia	2000	-	11	22	-	11	19	-	1	7	-	4	9	-	31	52	-	24	38	
	2015	-	19	43	-	30	29	-	2	22	-	8	30	-	45	75	-	62	28	
Sudan	2000	-	28	60	-	29	34	-	17	54	-	18	36	-	52	73	-	51	30	
	2015	-	38	82	-	44	41	-	24	78	-	32	46	-	63	88	-	67	31	
Syrian Arab Republic	2000	-	79	-	-	80	17	-	64	-	-	63	31	-	93	-	-	-	96	4
	2015	-	81	-	-	86	13	-	67	-	-	80	18	-	92	-	-	-	90	9
Tunisia	2000	37	86	92	37	80	12	-	70	-	-	58	23	-	96	98	-	-	92	6
	2015	93	93	99	99	87	12	-	83	-	-	68	28	-	98	100	-	-	96	4
United Arab Emirates	2000	-	89	99	-	79	21	-	85	-	-	71	29	-	90	99	-	-	80	19
	2015	-	89	99	-	-	-	-	85	-	-	-	-	-	90	99	-	-	-	-
West Bank and Gaza Strip	2000	-	81	81	-	84	4	-	81	79	-	69	16	-	81	81	-	-	90	0
	2015	-	80	80	-	52	36	-	90	89	-	81	14	-	77	77	-	-	42	43
Yemen	2000	-	31	35	-	43	12	-	16	27	-	35	7	-	70	58	-	-	66	27
	2015	-	49	58	-	42	50	-	35	56	-	24	64	-	75	62	-	-	76	24
WHO Eastern Mediterranean Region	2000	53	74	62	54	58	27	38	60	54	38	38	38	71	89	71	73	81	15	
	2015	56	77	74	56	63	29	42	66	64	42	44	43	69	87	83	69	81	16	



## The unfinished Water, Sanitation and Hygiene Agenda

### DRINKING WATER



- Extending **basic drinking water service** to 13% (84 million) in the region mainly in Afghanistan, Morocco, Pakistan, Somalia, Sudan and Yemen.
- Accelerating and sustaining progress towards 2030 universal basic water: progress is too slow in 9 countries and basic water services are decreasing in 3 countries.
- Managing drinking water safety: 87% of the population has basic water services, but 44% (285 million) are served by unsafely managed water.
- Reducing urban/rural inequalities: 18 million people still collect drinking water directly from **surface water** sources, 97% live in rural areas. 84 million people still lacked even a **basic drinking water** service.
- Improving monitoring of drinking water safety: reporting on **safely managed water services** was possible in only 9 countries.

### SANITATION



- Ending open defecation still practiced by 50 million mainly in Afghanistan, Morocco, Pakistan, Somalia, Sudan and Yemen.
- Extending **basic sanitation services** to 27% (175 million) mainly in Afghanistan, Iran, Pakistan, Somalia, Sudan and Yemen.
- Managing sanitation safety: in the 14 countries, where it was possible to estimate **safely managed sanitation services**, 89% of the population had basic sanitation services but 44% had used unsafely managed sanitation services.
- Reducing urban/rural inequalities: **open defecation** is practiced by 0.3% of the urban vs. 15.7% of the rural population
- Improving monitoring of sanitation safety: available data were insufficient to make a regional estimate of the population using **safely managed sanitation services**.

### HYGIENE



- Improving access to hand washing facilities (with soap and water):
  - 34% of the population (220 million) has no **basic handwashing** facility
    - One out of five people (136 million) use a **limited handwashing facility** (without water or soap).
  - 13% of the population (84 million) has access to no facilities
  - Coverage of **basic handwashing** facilities with soap and water varied from 10 to 91 per cent.
  - The rural /urban inequalities are wide: 81 per cent and 50 per cent of the urban and rural population uses **basic handwashing** facilities.
- Improving monitoring of access to **basic handwashing** facilities: many high-income countries lacked sufficient data to estimate the population with **basic handwashing** facilities.

JMP website: [www.washdata.org](http://www.washdata.org)