

KEY FINDINGS OF THE 2016 REPORT OF THE MDG+ INITIATIVE: SANITATION AND WASTEWATER

النتائج الرئيسية لتقرير مبادرة MDG+ الثاني (2016): الصرف الصحي والمياه
العامة

01/11/2016

Economic And Social Commission For Western Asia

Ali Karnib, PhD
Water and Sanitation Expert
Sustainable Development Policies Division



UNITED NATIONS

الاستسها

ESCWA

1 Introduction

2 Concept and data

3 Key Findings

1

Introduction

Sanitation

Unimproved
sanitation facilities

Improved sanitation facilities

Collected wastewater

Treated Wastewater

Untreated Wastewater

Tariff
structure

Average
Cost

Treatment type

Reuse Type

Reuse Type

Primary treatment

Secondary treatment

Tertiary treatment

Agricultural

Recharge purposes

Domestic use

Release into water
course

Other reuse types

Agricultural

Recharge purposes

Domestic use

Release into water
course

Other reuse types

Flat tariff

Increasing
tariff

\$/m³

\$/cap/month

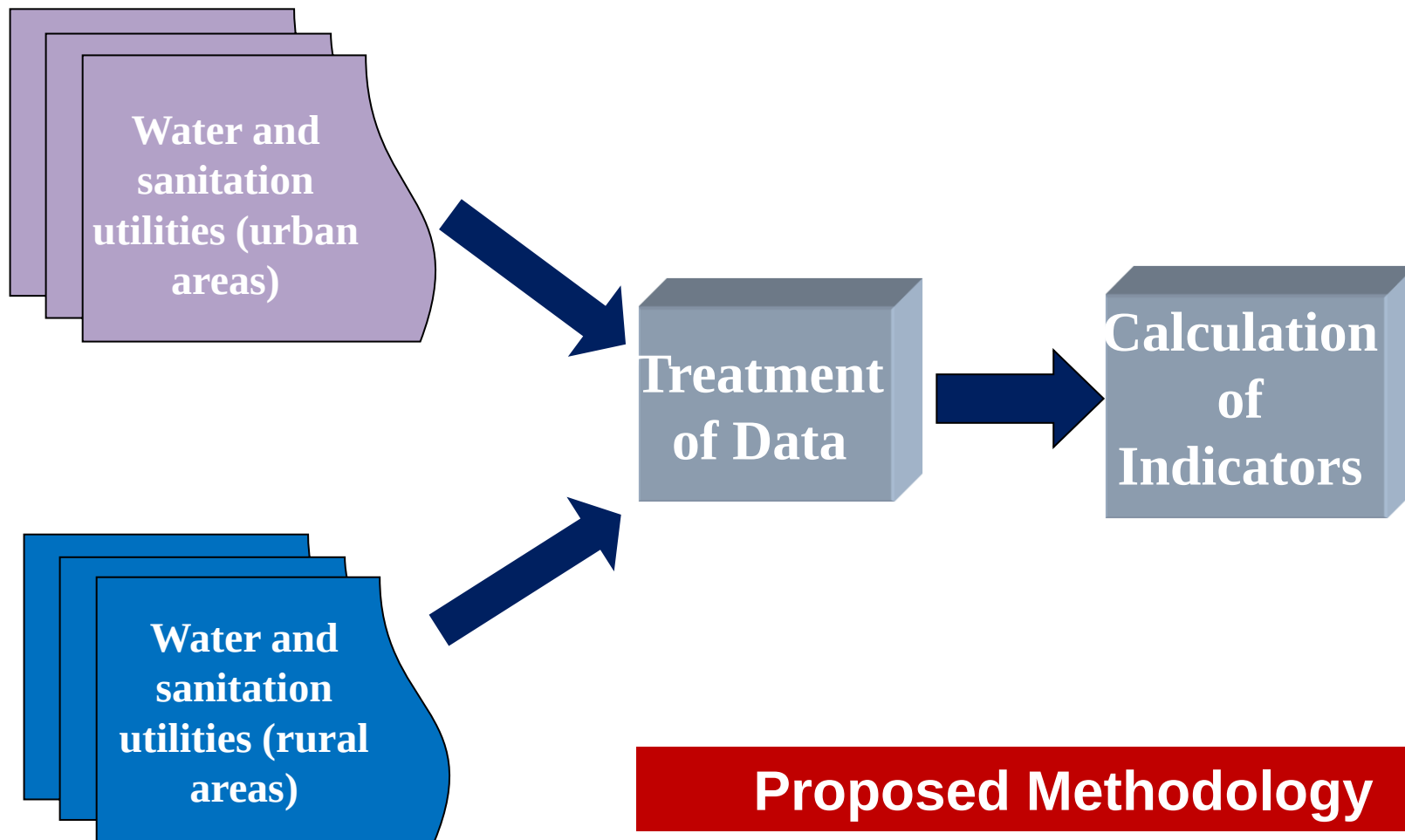
Basic
Indicator

Additional indicators



Concept and data

2 Concept and data



2

Concept and data

Second MDG+ report 2016

MDG+ Initiative indicators calculated in No. of population

Sanitation Network							
Population	2012-Data				2013-Data		
	Urban	Rural	Total		Urban	Rural	Total
Connected People	30665.53	9826.697	40492.23		32462.99	10523.30	42986.29
Treated Waste-Water Treatment:	29008.01	8470.878	37206.32		31069.24	8915.352	39984.592
Primary	6542.327	705.048	7247.375		7431.469	946.856	8378.325
Secondary	21721.199	7711.103	29432.3		22737.758	7895.986	30633.74
Tertiary	744.485	54.727	799.212		900.011	72.510	972.521
Types of Reuse after Treatment:							
Irrigation	719.6	247.563	967.16		673.53	260.255	933.78
Groundwater recharge	0	0	0		0	0	0
Domestic uses	0	0	0		0	0	0
Direct discharge to watercourse or to the sea	28293.495	8222.421	36515.92		30395.705	8652.930	39048.64
Other uses	0	0	0		0	0	0
Untreated wastewater:	1652.516	1628.39	3280.906		1393.754	1607.953	3001.7
Untreated wastewater reuses:							
Irrigation	0	0	0		0	0	0
Injection for groundwater recharge	0	0	0		0	0	0
Domestic uses	0	0	0		0	0	0
Direct discharge to watercourse or to the sea	1652.516	1628.39	3280.906		1393.754	1607.953	3001.707
Other uses	0	0	0		0	0	0
Tariff:							
Monthly Flat	-	-	-		-	-	-
Volumetric	27799.78	6545.57	34345.35		28018.15	6545.57	34563.72
Average tariff for one cubic meter:							
US-\$	0.04	0.03	-		0.04	0.03	-

2

Concept and data

Second MDG+ report 2016

MDG+ Initiative indicators calculated in Million Cubic Meter per Year

Sanitation Network							
MCM per year	2012 Data				2013 Data		
	Urban	Rural	Total		Urban	Rural	Total
Wastewater collected by sewer networks	2547.93	428.82	2976.75		2590.03	440.35	3030.38
Treated Waste Water	2430.62	352.31	2782.94		2472.71	363.51	2836.23
Treatment:							
Primary	665.41	31.04	696.45		682.41	41.94	724.35
Secondary	1712.347	319.382	2031.729		1735.438	319.383	2054.820
Tertiary	52.868	1.894	54.762		54.868	2.194	57.062
Types of Reuse after Treatment							
Irrigation	24.5	9.75	34.24		40.4	9.75	50.2
Groundwater recharge	0.000	0.000	0.000		0.000	0.000	0.000
Domestic uses	0.000	0.000	0.000		0.000	0.000	0.000
Direct discharge to watercourse or to the sea	2388.043	352.314	2740.357		2432.247	353.755	2786.002
Other uses	0	0	0		0	0	0
Untreated wastewater	138.08	77.84	215.92		101.74	76.84	178.58
Untreated wastewater reuses							
Irrigation	0	0	0		0	0	0
Injection for groundwater recharge	0	0	0		0	0	0
Domestic uses	0	0	0		0	0	0
Direct discharge to watercourse or to the sea	138.08	77.84	215.92		101.74	76.84	178.58
Other uses	0	0	0		0	0	0
Tariff							
Monthly Flat	-	-	-		-	-	-
Volumetric	-	-	-		-	-	-
Average tariff for one cubic meter:							
US \$	0.04	0.03	0.04		0.04	0.03	-

Second MDG+ report 2016

(in No. of population) -
network - Urban

[illegible]

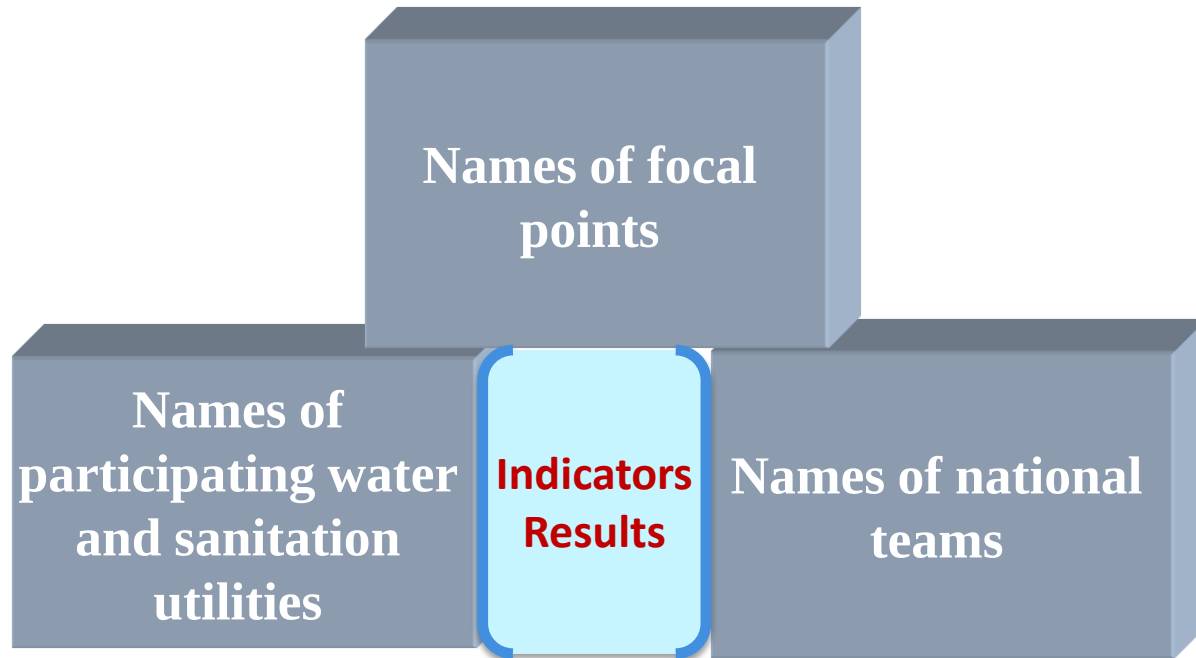
Second MDG+ report 2016

(calculated in MCM/year)

[illegible]

2 Concept and data

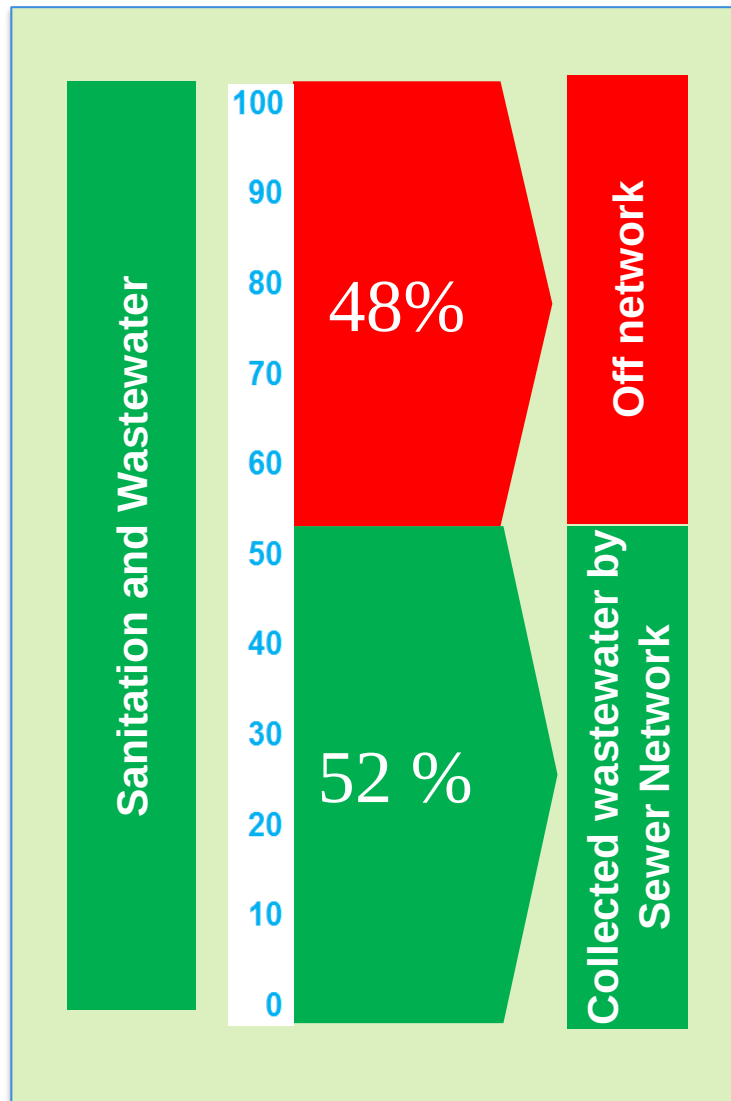
Second MDG+ report 2016



Key Findings

3

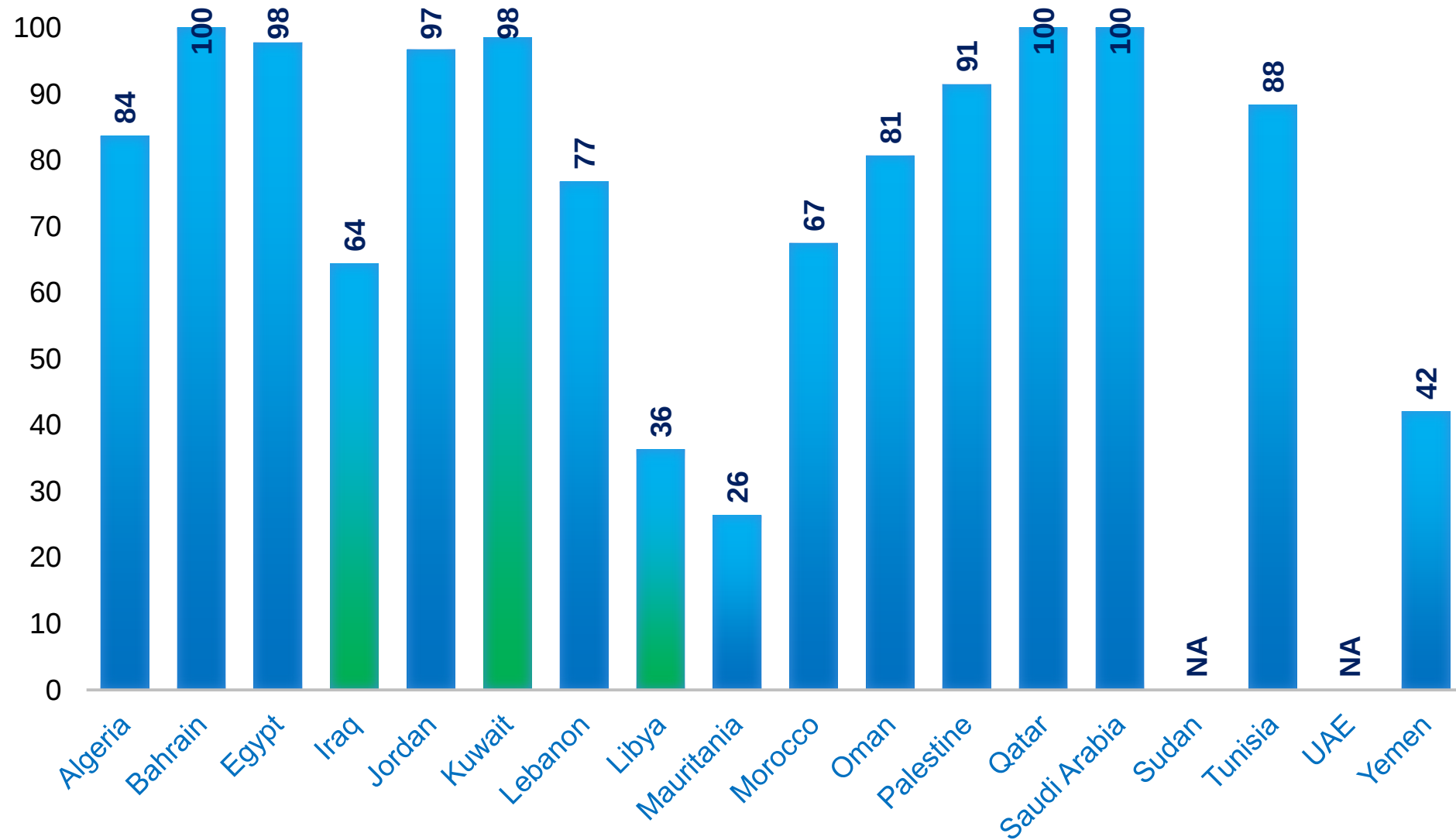
% of Population connected to piped water



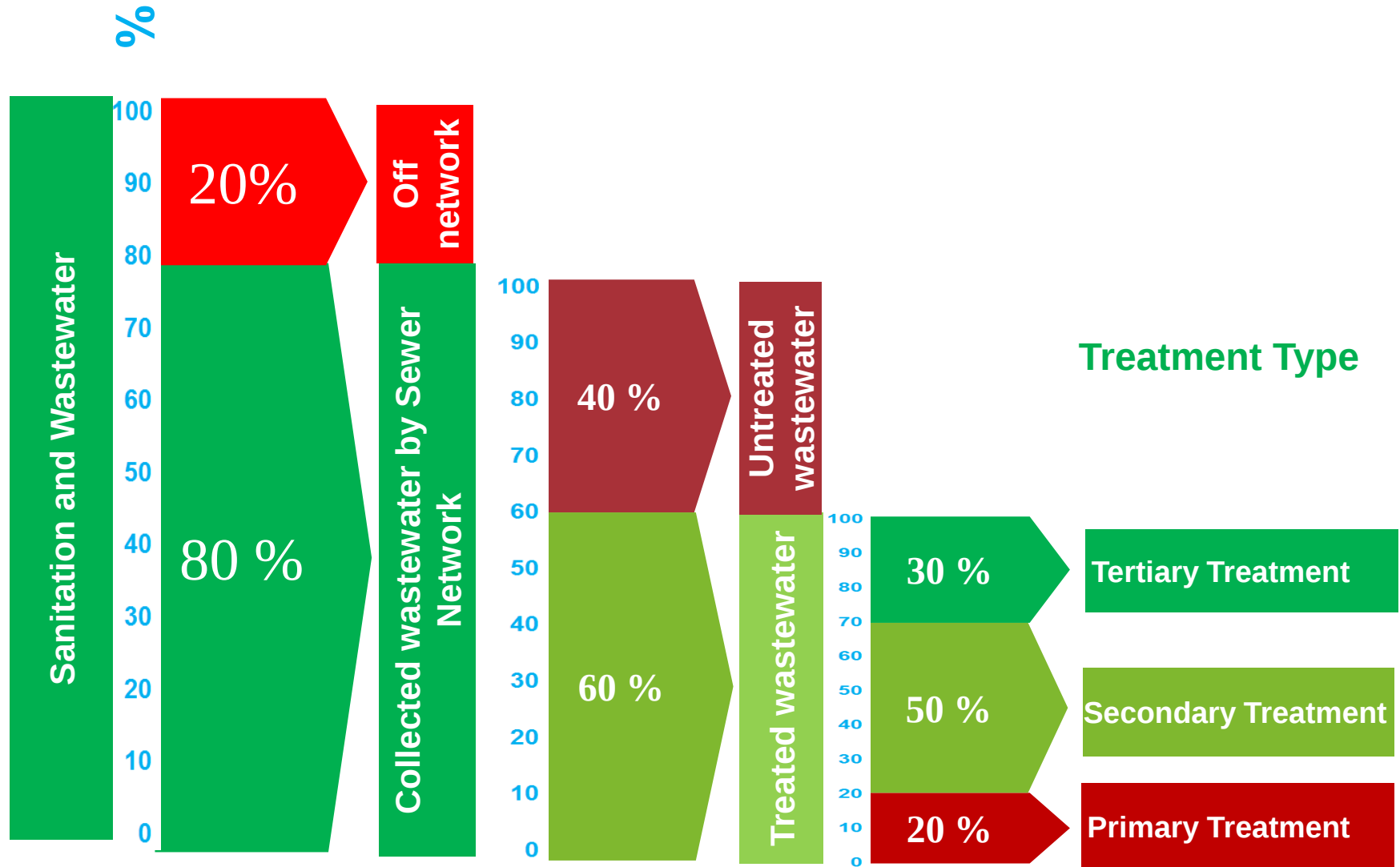
3

% Population connected to piped water network

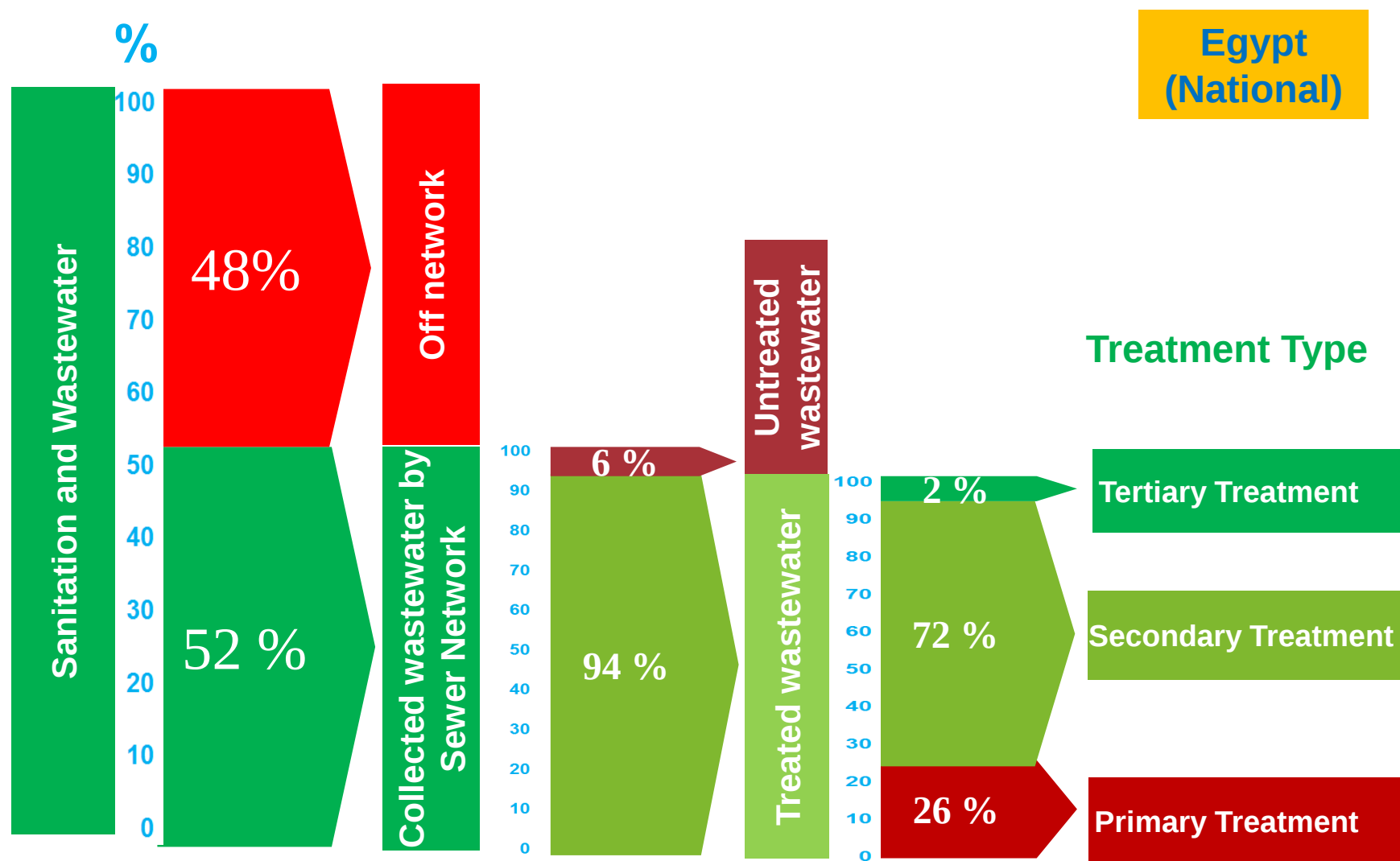
National level



Treated Wastewater and Treatment Type

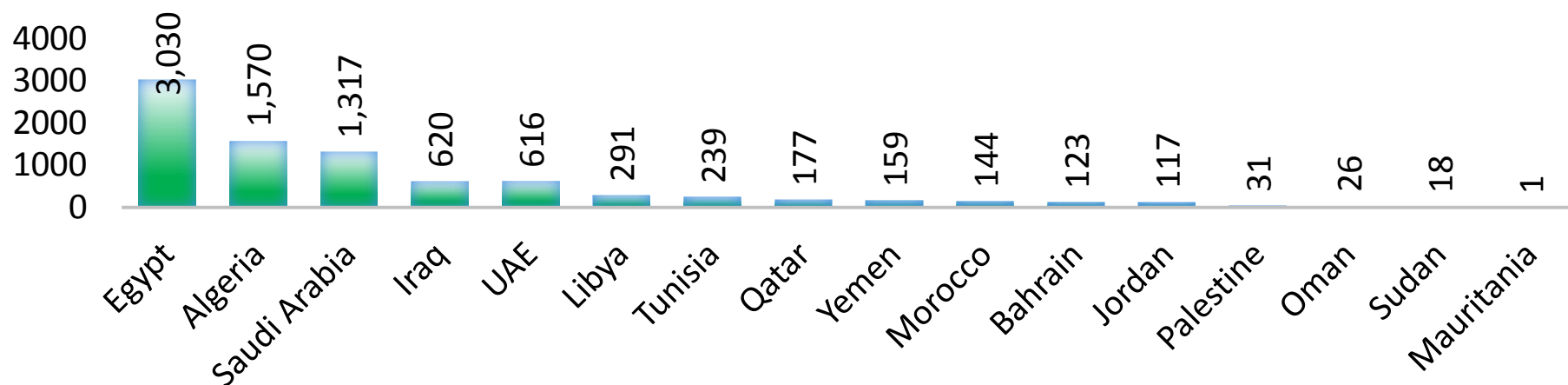


Treated Wastewater and Treatment Type



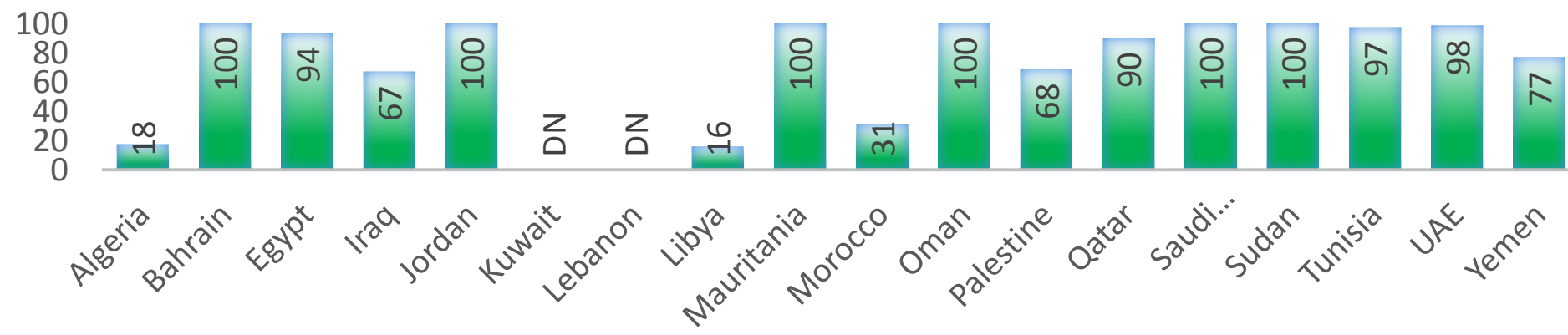
Treated Wastewater and Treatment Type

The collected wastewater volume by piped sewer networks (million cubic meter/year)



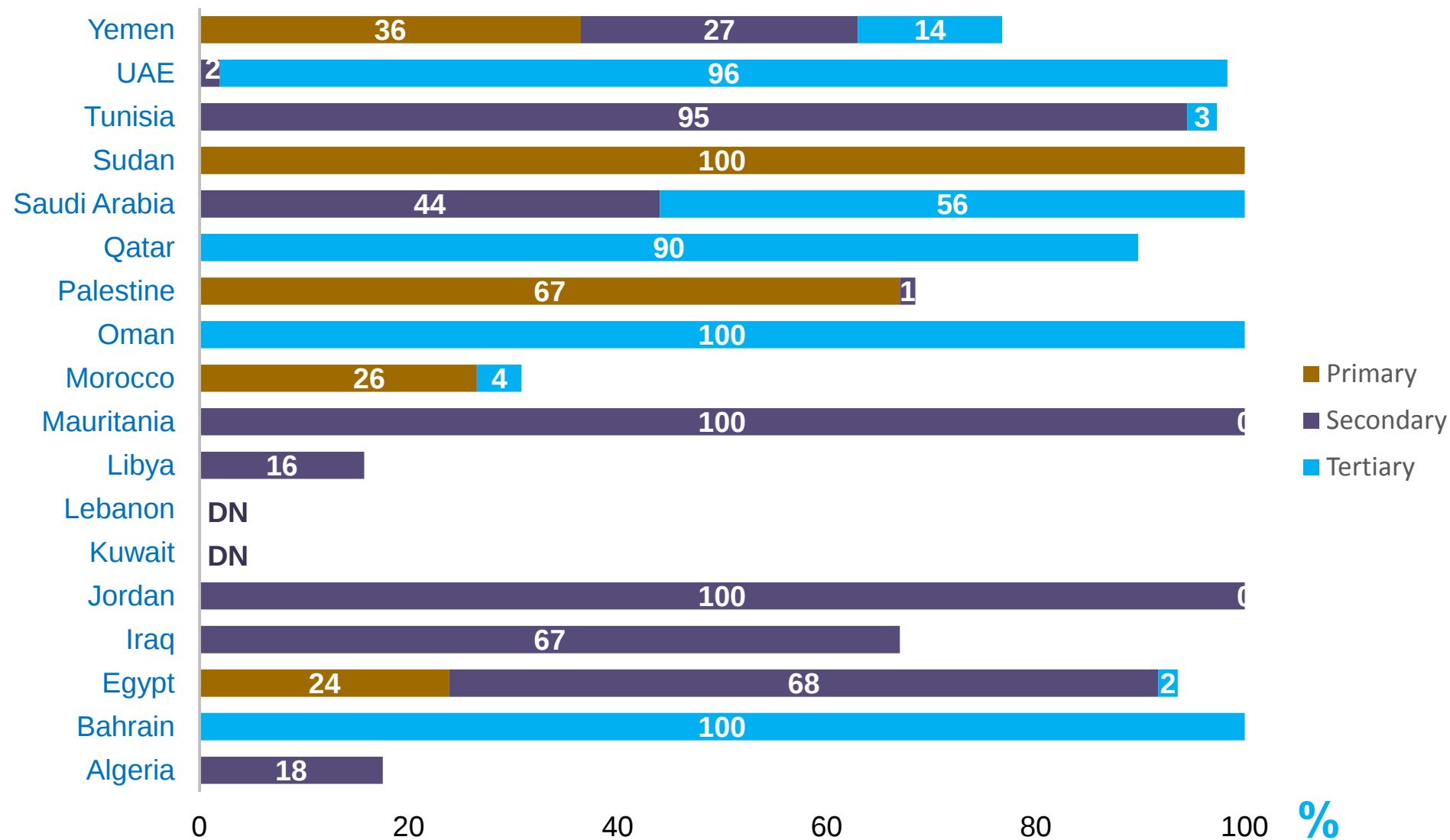
Proportion of the annual collected wastewater volume by piped sewer networks receiving treatment prior to discharge (%)

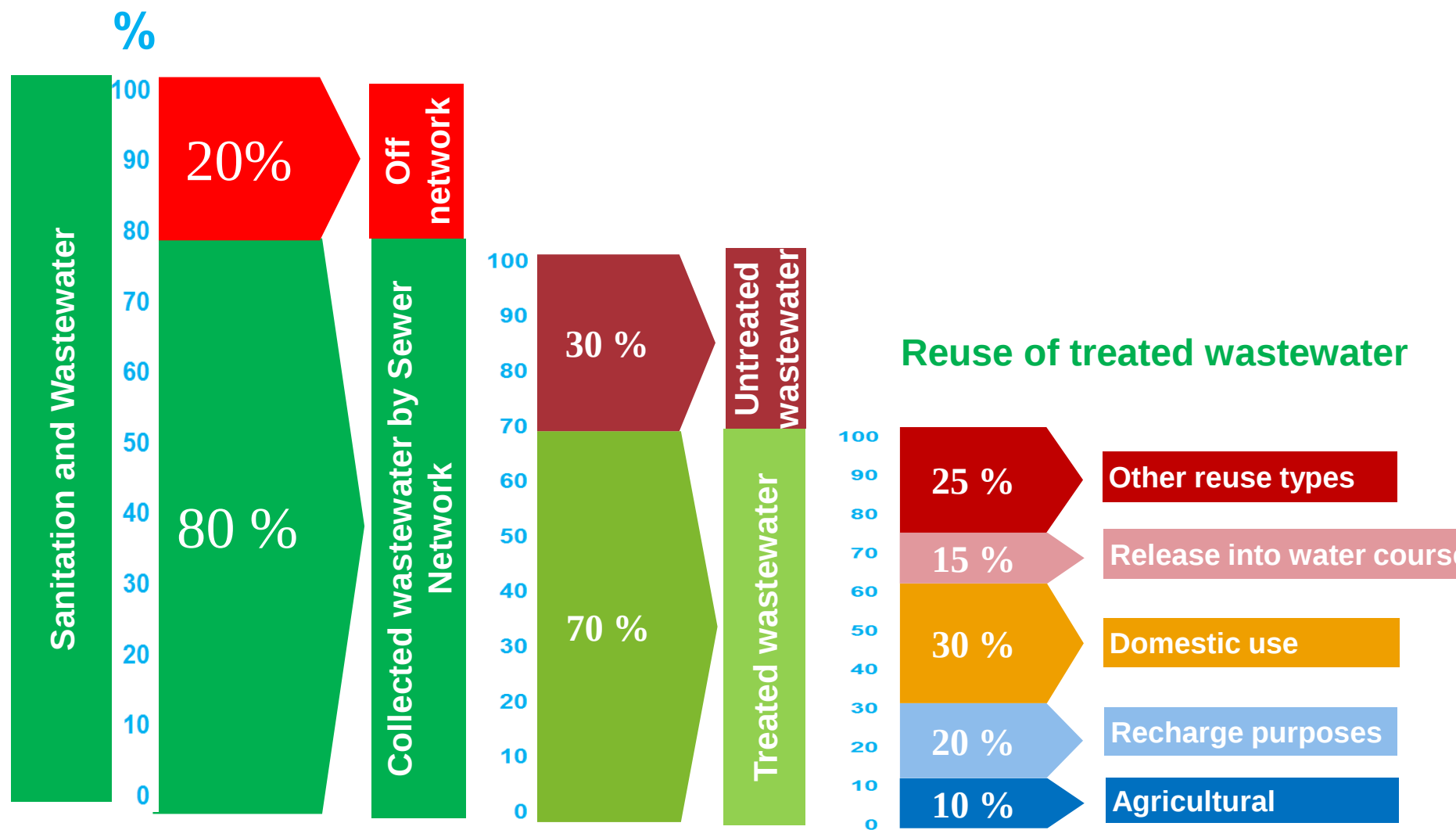
%

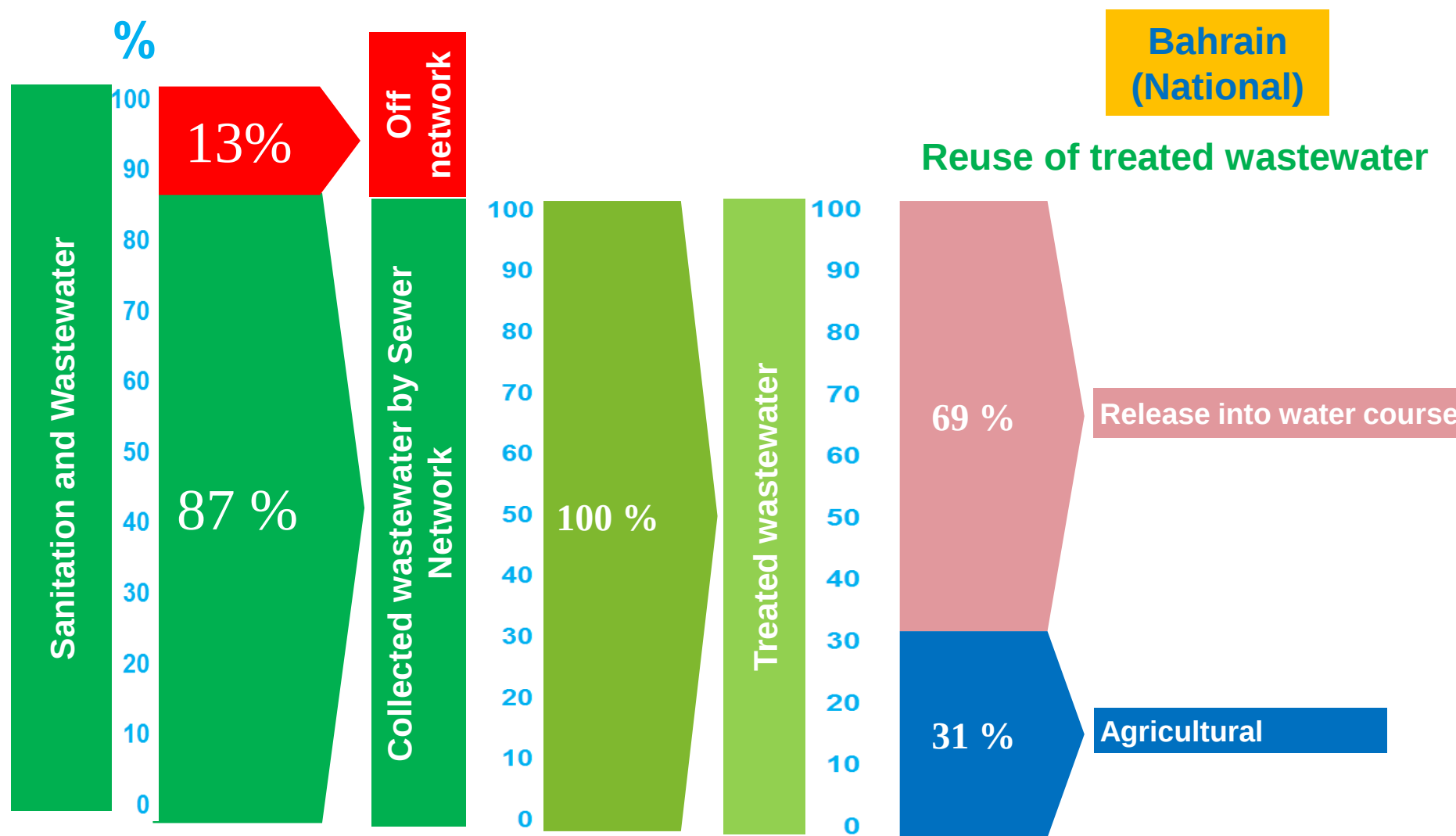


Treated Wastewater and Treatment Type

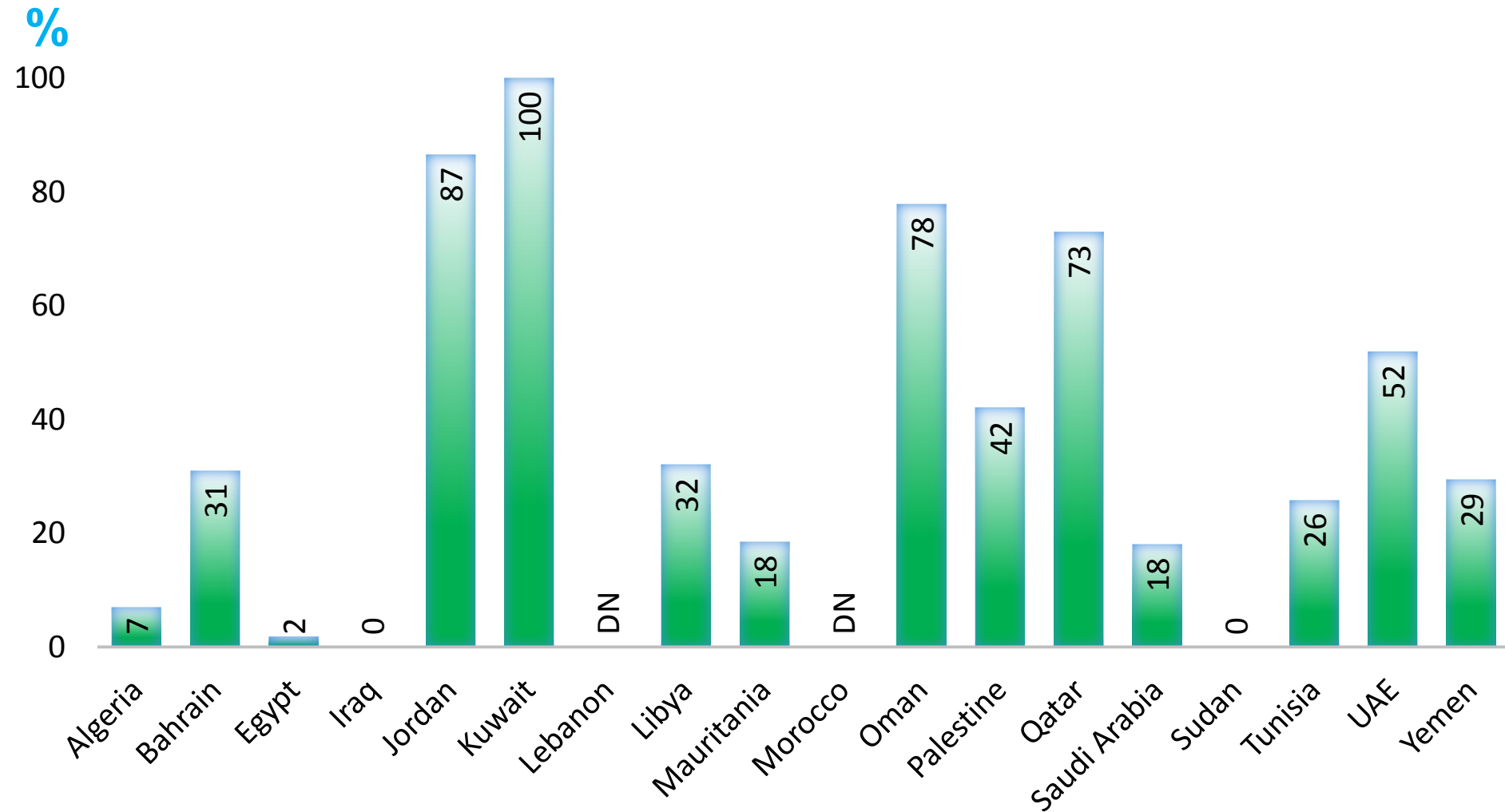
Proportion of the annually collected wastewater volume by piped sewer networks that are receiving primary, secondary and tertiary treatment (%)







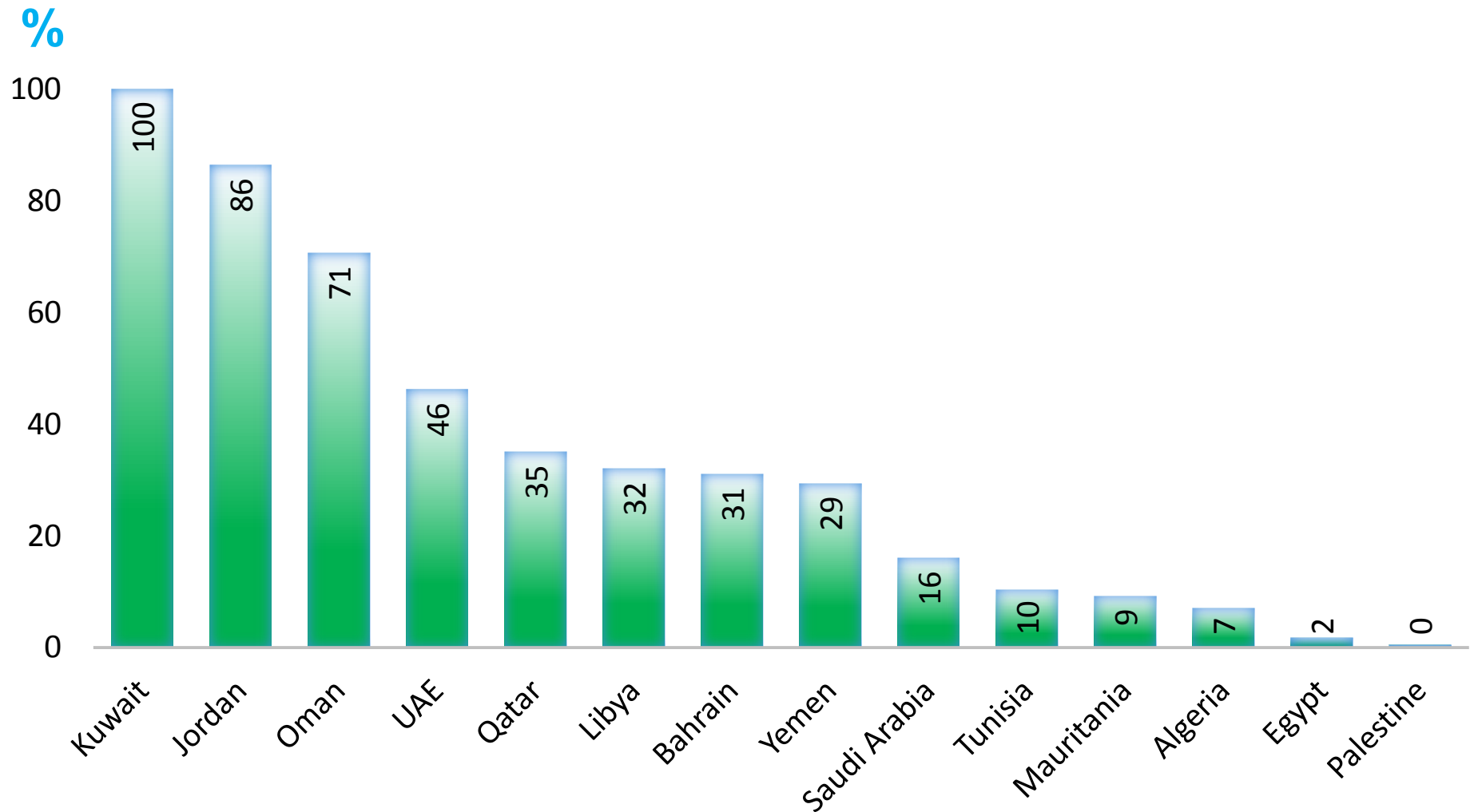
Proportion of the annually treated wastewater volume that is being reused (%)

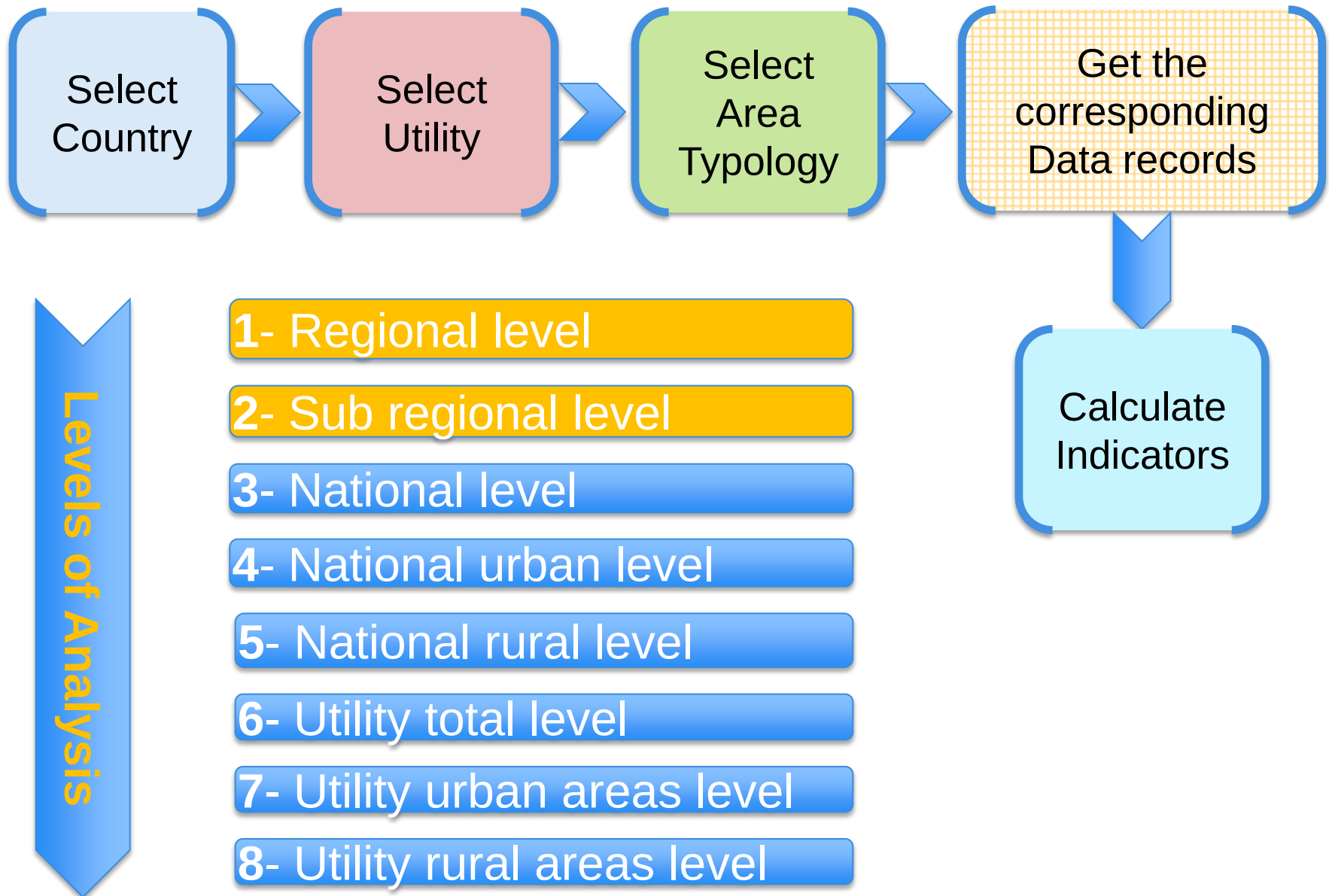


3

Reuse of treated wastewater

Proportion of the annually treated wastewater volume that is being used in irrigation (%)





THANK YOU

Economic And Social Commission For Western Asia

Ali Karnib, PhD
Water and Sanitation Expert
Sustainable Development Policies Division



UNITED NATIONS

الاسكوا

ESCWA