



# 2023

## ANNUAL REPORT

WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP)



WHO  
UNICEF



JMP



World Health Organization

# 2023

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# 01 .

## Introduction

The WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) has produced regular updates of progress since 1990 and is responsible for global monitoring of the Sustainable Development Goal (SDG) targets related to drinking water, sanitation and hygiene (WASH).

WHO and UNICEF, through the JMP, serve as custodian agencies responsible for global reporting on SDG targets 6.1 and 6.2, and provide the UN Statistical Division with official estimates which are included in the SDG global database and annual SDG Progress Report. The JMP also actively supports the UN-Water Integrated Monitoring Initiative for SDG 6 (IMI-SDG 6) and works closely with agencies responsible for monitoring targets under other goals, including SDG 1.4 on universal access to basic services, SDG 4a WASH in schools, and SDG 6.3 on wastewater treatment.

In 2017, the JMP published global baseline estimates for WASH in households. The new SDG indicators build on established indicators of the types of facilities households use and introduce additional criteria relating to the level of service provided. The JMP has expanded its global databases and country files to incorporate this new information and further refined the methodology used to produce national, regional and

global estimates. New global databases have been established on WASH in institutions, and global baseline reports were published for WASH in schools (2018) and WASH in health care facilities (2019). Subsequently, the JMP has published updates for households in odd years and for schools and health care facilities in even years, and plans to continue this biennial cycle throughout the SDG period.

WHO and UNICEF have established long term WASH strategies that are aligned with the 2030 Agenda for Sustainable Development (UNICEF 2016-2030, WHO 2018-2025). In 2021, the JMP updated its strategy (2021-2025), which builds on the progress achieved under the existing strategy (JMP 2016-2020).



This Annual Report summarizes the main activities and results achieved and provides an overview of income and expenditure in relation to the JMP 2023 work plan and budget. It serves as a generic report for all JMP donors and stakeholders and follows the standard UNDG format for Annual Progress Reports approved by the OECD-DAC.

## JMP 5 Year Strategy 2021-2025

**JMP vision:** progressive realization of universal access to drinking water, sanitation and hygiene (WASH) and the reduction of inequalities in service levels by 2030

**JMP mission:** to produce reliable estimates of national, regional and global progress on WASH to inform decision making by government, donor and civil society organisations

### Strategic aims:

- 1 **Normative role:** to develop new indicators, methods and standards for enhanced national and global monitoring of WASH
- 2 **Global data custodian:** to maintain global databases, produce reliable estimates of status, trends and inequalities, and to visualize and share data in accessible formats
- 3 **Country engagement:** to provide technical advice, guidance materials and tools to support countries to collect and analyse data on inequalities and to report progress on WASH
- 4 **Integrated monitoring:** to build new partnerships to integrate new sources of data and to analyse interlinkages between WASH and related SDG targets

# 02.

## Resources

### JMP staff positions

The WHO/UNICEF JMP core team comprises five full-time professional staff and two part time administrative staff (Table 1). The JMP also employs a number of short-term consultants for specific tasks. The JMP is jointly overseen by the Director of Water, Sanitation and Hygiene and the Deputy Director - DAPM - Data and Analytics at UNICEF, and the Coordinator of the Water, Sanitation, Hygiene and Health Unit at WHO.

### JMP funding overview

The JMP team is very grateful for the generous support it receives from external donors and from within WHO and UNICEF. During 2023 the JMP received a total of US\$3.1 million, compared with \$1.7 million in 2022. By the end of 2023 development partners had already pledged \$3.3 million for 2024 and smaller amounts for subsequent years up to 2026 (Table 2).

TABLE 1 JMP Staff Positions

WHO	UNICEF
Technical Officer, WASH	Senior Statistics & Monitoring Specialist
Technical Officer, Statistics	Statistics & Monitoring Specialist
	Statistics & Monitoring Specialist
Administrative assistant - part-time	Administrative assistant - part-time

TABLE 2 JMP Funding Overview 2021-2026 (US\$ x 1,000)

Donor	Received 2021	Received 2022	Received 2023	Pledged 2024	Pledged 2025	Pledged 2026
ADA (Austria)	37	33	138	158	158	0
AfD (France)	72	55	20	21	0	0
BMGF (Bill and Melinda Gates Foundation)	413	413	762	436	86	0
BMZ (Germany)	34	49	42	46	46	46
DFAT (Australia)	51	0	100	100	0	0
DGIS (The Netherlands)	927	0	522	482	482	482
EC (European Commission)	0	0	130	177	47	47
FCDO (United Kingdom)	792	792	792	1316	920	920
SDC (Switzerland)	147	135	315	261	261	261
USAID (United States)	250	250	250	250	250	0
UN-Water	0	0	0	39	36	36
Core	392	0	0	0	0	0
<b>Grand Total</b>	<b>3115</b>	<b>1728</b>	<b>3071</b>	<b>3285</b>	<b>2285</b>	<b>1792</b>

# 03. Results

## 3.1. Normative Role: new indicators and methods

### Household surveys and censuses

During 2023, the JMP worked with the **UNICEF Multiple Indicator Cluster Surveys** team to update the indicators, questionnaires, guidance manuals, analysis scripts and data tables for **MICS7 WASH module**. The JMP team also worked with an expert group to develop a new **complementary module on menstrual health and hygiene**. The JMP continued to support the integration of SDG WASH indicators into Demographic Health Surveys, World Bank Living Standards Measurement Surveys, national household surveys and surveys conducted by UN agencies and international NGOs.

### Safely managed drinking water services

During 2023, the JMP provided technical support for the planning and implementation of water quality testing in national household surveys Azerbaijan, Bangladesh, Belize, Costa Rica, Ethiopia, Guatemala, Honduras, Iraq, Lao PDR, Lebanon, Libya, Malawi, Mongolia, Nauru, Nepal, Nicaragua, Pakistan (provincial), Sierra Leone,

Somalia, St Lucia, Sudan, Timor Leste, Tunisia and Vanuatu.

The JMP convened international consultants to review lessons from integration of water quality in >50 household surveys to date and updated the water quality testing manual and training materials for MICS7. The JMP has also developed a low-cost injection molded plastic manifold to reduce the costs of *E. coli* testing in the field.





### Safe management of on-site sanitation

During 2023, the JMP launched Phase 2 piloting of tools for **monitoring safe management of onsite sanitation** in Malawi, Moldova, Nepal and Oman and supported national inception workshops and adaptation of SMOSS **guidance materials** to country context. The JMP updated MICS7 questions on containment, emptying and disposal of excreta from onsite systems, provided technical inputs Eastern and Southern Africa Regulators Association (ESAWAS) guidance materials and supported a series of WHO/ UNICEF online trainings and regional and country workshops on safely managed sanitation.

### WASH Insecurity Analysis

During 2023, the JMP team collaborated with the **Global WASH Cluster** on the development of tools for WASH Insecurity Analysis (previously WASH Severity Classification), which aims to provide a common analytical approach for assessing WASH-related needs and WASH-related risks facing populations in a given geographic area, and to inform emergency preparedness and response planning.

### Gender

During 2023, the JMP team collaborated with Emory University on phase 2 of the JMP/GLAAS **review of opportunities for enhanced monitoring of gender in WASH**. The JMP convened a series of expert group meetings and stakeholder consultations, resulting in technical recommendations on priority gender-specific indicators for WASH monitoring under SDGs 6.1 and 6.2. During 2023, the JMP team also supported the development and rollout of the new complementary MICS7 module on menstrual health and hygiene.



## 3.2. Global databases: global custodian of WASH data

### WASH in Households

In July 2023, the JMP published **Progress on household drinking water, sanitation and hygiene 2000-2022: special focus on hygiene**. The JMP provided data and analysis for the **2023 UN Water Conference**, the UN Secretary General's **2023 SDG Progress Report** and the **SDG6 Synthesis Report** prepared for the 2023 High Level Political Forum. The JMP produced **regional snapshots of progress on WASH in households for all standard regional groupings** (SDG, LDC, LLDC, SIDS, Fragile, WHO, UNICEF and Income) as well as a number of bespoke regional groupings.

### WASH in Schools

In late 2023, the JMP prepared updated country estimates for WASH in schools and circulated these to WHO and UNICEF regional and country offices for a two-month period of **country consultation** with national stakeholders. The JMP team prepared guidance notes and held a series of regional webinars to explain the methods used to produce national estimates, as well as bilateral meetings with individual countries to discuss national data sources.

### WASH in health care facilities

In late 2023, the JMP circulated updated country estimates for WASH in health care facilities to WHO and UNICEF regional and country offices for a two-month period of **country consultation** with national stakeholders. The JMP team prepared guidance notes and held a series of regional webinars to explain the methods used to produce national estimates, as well as bilateral meetings with individual countries to discuss national data sources. The JMP also produced a detailed description of the methods used to produce estimates for WASH in health care facilities.



Progress on household drinking water, sanitation and hygiene 2000-2022: special focus on hygiene



2023 SDG Progress Report



SDG6 Synthesis Report



## Inequalities

The JMP team restructured and expanded its global database on inequalities in WASH services and identified new sources of disaggregated data for >100 countries. The JMP is in the process of updating the global database on inequalities and plans to publish updated JMP country files on inequalities during 2024.

## washdata.org

During 2023, the JMP worked with the web team to implement a number of small changes to improve navigation, report management, and tracking of user downloads, but the planned upgrade of the JMP website was postponed due to lack of funding.

The latest JMP estimates were included in WHO and UNICEF data portals and shared with the UN Statistical Division for inclusion in the official **SDG global database**. They have also been included in a wide range of other global development databases, including the **World Development Indicators** and the UN-Water Integrated Monitoring Initiative for **SDG 6 data portal**.

### 3.3. Country and regional engagement: strengthening national monitoring

#### International and regional meetings

During 2023, the JMP team has participated in a series of international and regional workshops to disseminate JMP estimates and to support national authorities to collect the data required to report on the agreed SDG indicators for WASH in households, schools and health care facilities.

- Meetings of the UN-Water Integrated Monitoring Initiative for SDG 6 targets (IMI-SDG 6).
- Meetings of the UN Statistical Commission, the Inter-Agency Expert Group on SDG indicators (IAEG), and EuroStat.
- Global and regional preparatory meetings for the 2023 UN Water Conference.
- Global conferences including UN Water Conference, IRC All Systems Connect, World Water Week, UNC Water and Health, RegNet, Global Hygiene Symposium and Sanitation and Water for All global partnership.
- Global and regional WASHNET meetings of UNICEF WASH staff and key partners in East Asia, East Africa, Latin America, Middle East, South Asia and West Africa.

- Regional meetings of WASH sector professionals including AfricaSan, the European Protocol on Water and Health, IWA Congress and the WASH in Schools International Learning Alliance in Asia and in Africa.

#### JMP webinars and trainings

The JMP team has also delivered numerous webinars and training sessions on national and global monitoring of SDG WASH targets. During 2023, the JMP provided inputs to a series of global webinars organized by IMI-SDG 6 and supported MICS regional planning workshops in Europe and Central Asia, Middle East and North Africa, West and Central Africa, South Asia, Latin America and the Caribbean and East and Southern Africa. Presentations on SDG monitoring were also delivered to students at the London School of Hygiene and Tropical Medicine, Ecole Polytechnique Fédérale de Lausanne and SDG6 WaveMakers. During 2023, the JMP also held webinars with UNICEF and WHO regional and country offices to discuss country consultations on updated JMP estimates for WASH in schools and health care facilities, which will be published in 2024.

#### Country support

During 2023, the JMP team has supported WHO and UNICEF country offices to integrate core questions on SDG WASH indicators into national monitoring systems including household surveys, censuses, health facility surveys, school surveys and Education Management Information Systems. The JMP launched a second round of pilots to monitor safe management of onsite sanitation and supported the implementation of the water quality testing module in a large number of national household surveys. During 2023, water quality testing was started or completed in seven countries (Azerbaijan, Laos People's Democratic Republic, Lebanon, Mongolia, Nicaragua, and Tunisia) and technical support was also provided to 17 countries (Bangladesh, Belize, Costa Rica, Ethiopia, Guatemala, Honduras, Iraq, Libya, Malawi, Nauru, Nepal, Pakistan (provincial), Sierra Leone, Somalia, Sudan, St Lucia, Timor Leste and Vanuatu) that plan to implement water quality surveys in 2024.

## 3.4. Integrated monitoring: interlinkages between WASH and other SDGs

### UN-Water Initiative for Integrated Monitoring of SDG 6

The Inter-Agency Expert Group on SDG Indicators (IAEG-SDG) has nominated WHO and UNICEF to serve as custodian agencies responsible for global monitoring of SDG WASH targets 6.1 and 6.2. The WHO/UNICEF JMP also works closely with agencies responsible for monitoring other SDG 6 targets under the UN-Water Integrated Monitoring Initiative for SDG 6 (IMI-SDG 6). The JMP shares sanitation data with WHO and UN Habitat for monitoring progress towards SDG target 6.3 for safe treatment of wastewater, and contributed to the second SDG 6 Synthesis Report which will be published in 2023.

In 2023 IMI-SDG 6 contributed data and analysis for the 2023 UN Water Conference. The JMP team collaborated with other custodian agencies on a series of global webinars on SDG 6 monitoring and contributed to the ongoing IMI-SDG 6 initiative on gender contextualization.

### International reports and programmes

Each year the JMP contributes WASH data and analysis to the UN Secretary General's SDG Progress Report and to numerous other UN flagship reports on poverty, nutrition, health, education, children, gender and disability. The JMP is often asked to provide data to inform high level decision making by global partnerships including Sanitation and Water for All, Education for All, Scaling Up Nutrition and Countdown 2030. The JMP data are also used extensively by bilateral and multilateral donors when allocating ODA for WASH. Finally, the JMP data are used by UNICEF and WHO to monitor progress towards corporate goals, strategies and workplans.

### Burden of disease attributable to inadequate WASH

In early 2023, WHO released updated estimates of the **global burden of disease attributable to inadequate water, sanitation and hygiene**. These estimates draw extensively on the JMP global database, including the growing body of data on availability of handwashing facilities with soap and water, and take account of sanitation coverage at both the household and community levels. Burden of disease estimates were widely disseminated by WASH sector stakeholders during the 2023 UN Water Conference.

# 04. Management and planning

In January 2023, the JMP/GLAAS Strategic Advisory Group met in person and provided advice on the implementation of the JMP's strategy and the development of data products

to meet the needs of different users. The SAG emphasized the importance of maintaining the rigour and reliability of core estimates and products used for SDG reporting while also

investing in the development of new indicators and methods on gender and climate resilience which could enhance national and global monitoring post-SDGs.



# 05. JMP 2024 workplan and budget

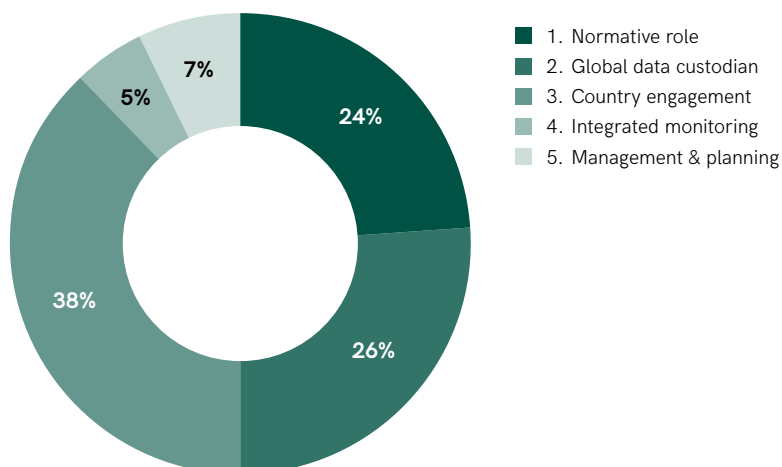
The JMP 2024 work plan outlines and major activities planned under each of the pillars of the JMP five-year strategy 2021-2025. Note that the budget for each item includes both activity costs and staff time. The total budget required for the regular operation of the JMP is \$US 3-4 million, including staff costs. The JMP budget for 2024 is \$3,473,000, subject to the availability of funding.

TABLE 3 JMP workplan and budget

2024 Activities	Total 2024
<b>1. Normative role: development of indicators and methods for enhanced monitoring of WASH</b>	<b>844</b>
<b>1.1. Household surveys and censuses</b>	
<ul style="list-style-type: none"> <li>Develop updated WASH survey tools for MICS7</li> <li>Integrate WASH indicators in other household survey programmes and censuses</li> <li>Develop training materials for WASH in household surveys and censuses</li> </ul>	76
<b>1.2. Safely managed drinking water services</b>	
<ul style="list-style-type: none"> <li>Consolidate guidance and training materials for water quality testing</li> <li>Finalize review of water quality field test kits</li> </ul>	84
<b>1.3. Safely managed sanitation services</b>	
<ul style="list-style-type: none"> <li>Complete pilot monitoring safe management of onsite sanitation (Phase 2)</li> <li>Consolidate guidance materials for monitoring SMOSS</li> <li>Develop training materials for assessing containment of on-site sanitation</li> </ul>	110
<b>1.4. Hygiene</b>	
<ul style="list-style-type: none"> <li>Continue development of new indicator for personal hygiene (bathing)</li> </ul>	16
<b>1.5. WASH outside the home</b>	
<ul style="list-style-type: none"> <li>Publish methodological note: WASH in HCF</li> <li>Refine methods for estimating regional statistics for schools and health care facilities</li> </ul>	77
<b>1.6. Gender</b>	
<ul style="list-style-type: none"> <li>Support pilot testing of priority list of gender-specific indicators</li> <li>Disseminate survey module on menstrual health and hygiene</li> </ul>	225

2024 Activities	Total 2024
<b>1.7. Climate resilient WASH</b> <ul style="list-style-type: none"> <li>• Launch review of indicators for monitoring climate resilient WASH</li> <li>• Establish technical working group on climate resilient WASH</li> </ul>	204
<b>1.8. Cross cutting issues</b> <ul style="list-style-type: none"> <li>• Support ongoing development of WASH insecurity analysis</li> </ul>	52
<b>2. Global data custodian: maintain global databases and produce estimates</b>	<b>888</b>
<b>2.1. Database management and estimation methods</b> <ul style="list-style-type: none"> <li>• Identify and compile new data sources (schools, hcf, households)</li> <li>• Finalize 2024 country files and estimates: Schools</li> <li>• Finalize 2024 country files and estimates: Health care facilities</li> <li>• Prepare 2025 country files and estimates: Households</li> <li>• Harmonize JMP code book, scripts and data files</li> <li>• Share data between databases on 6.2 and 6.3</li> </ul>	492
<b>2.2. Disaggregated data on inequalities</b> <ul style="list-style-type: none"> <li>• Expand database on inequalities (subnational region, wealth, other)</li> <li>• Expand database on menstrual health to include disaggregation by age</li> </ul>	124
<b>2.3. Geospatial analysis</b> <ul style="list-style-type: none"> <li>• Produce sub-national maps integrating data on WASH and other variables</li> </ul>	15
<b>2.4. Produce estimates and reports</b> <ul style="list-style-type: none"> <li>• WASH in schools: production, translation, printing, distribution</li> <li>• WASH in HCF: production, translation, printing, distribution</li> <li>• washdata maintenance and update</li> </ul>	175
<b>2.5. Technical inputs into international meetings and events</b> <ul style="list-style-type: none"> <li>• UNSD, IAEG SDG, regional commissions</li> <li>• UN-Water, SWA, World Water Forum, Stockholm, UNC Water and Health</li> </ul>	82
<b>3. Country engagement: provide guidance and tools to support countries</b>	<b>1,331</b>
<b>3.1. Direct technical support to countries</b> <ul style="list-style-type: none"> <li>• Support water quality testing in 10-15 household surveys</li> <li>• Support phase 2 SMOSS pilots in 4-5 countries</li> <li>• On demand support for monitoring of WASH in households, schools and health care facilities</li> <li>• Support WHO and UNICEF country offices with SDG planning and monitoring</li> </ul>	1,157
<b>3.2. Remote technical support to countries</b> <ul style="list-style-type: none"> <li>• Update and expand package of JMP training materials</li> <li>• Develop offline tools for developing data snapshots</li> </ul>	71
<b>3.3. Engagement with regions</b> <ul style="list-style-type: none"> <li>• Support regional platforms (AMCOW, SACOSAN, Observatorio, ACWA, SOPAC, etc)</li> <li>• Support WHO and UNICEF regional offices</li> </ul>	102

2024 Activities	Total 2024
<b>4. Integrated monitoring: collaborate on analysis of WASH interlinkages with other SDG targets</b>	<b>154</b>
<b>4.1. Engagement with other global data initiatives</b> <ul style="list-style-type: none"> <li>Support interagency data initiatives (UN-Water, IMI)</li> <li>Contribute to global and regional databases (SDG 6, UNSD, World Bank, AU, etc)</li> <li>Engage with secondary data providers (UIS, EuroStat, OECD, UNSD, SIASAR, MSNA)</li> </ul>	57
<b>4.2. Cross sectoral analysis</b> <ul style="list-style-type: none"> <li>Joint analysis of WASH and Gender</li> <li>Inputs to SDG 6 Synthesis Report, SDG 6 Data Portal</li> </ul>	41
<b>4.3. Data inputs to UNICEF and WHO flagship reports</b> <ul style="list-style-type: none"> <li>Inputs to UNICEF and WHO flagship reports</li> </ul>	22
<b>4.4. Data inputs to UNICEF and WHO Strategic Planning</b> <ul style="list-style-type: none"> <li>Corporate reporting of progress on WASH indicators for Strategic Plan</li> <li>Inputs to corporate strategies and frameworks relating to WASH (urban, water, sanitation, climate, humanitarian)</li> </ul>	34
<b>5. Management and planning</b>	<b>256</b>
<b>5.1. Strategic advisory group</b> <ul style="list-style-type: none"> <li>In person meeting in January/February</li> <li>Virtual meeting in June/July</li> </ul>	42
<b>5.2. JMP meetings</b> <ul style="list-style-type: none"> <li>JMP team planning</li> <li>JMP expert group meetings</li> </ul>	31
<b>5.3. JMP Staff</b>	184
<b>Grand Total</b>	<b>3,473</b>





## 06.

# Financial Implementation

The JMP received a total of \$3,071,349 from development partners in 2023 and \$982,000 were carried over from 2022. The combined expenditure by UNICEF and WHO on the JMP during 2023 was \$2,564,662. The surplus of \$1,488,687 will be carried over into 2023.

TABLE 4 JMP Balance Sheet, 2023 (US\$ x 1,000)

Income	
Donor funding received in 2023	3,071
Funds carried over from 2022	982
<b>Total</b>	<b>4,053</b>
Expenditure	
<b>Normative role:</b> development of indicators and methods for enhanced monitoring of WASH	372
<b>Global data custodian:</b> maintain global databases and produce estimates	554
<b>Country engagement:</b> provide guidance and tools to support countries	1,285
<b>Integrated monitoring:</b> collaborate on analysis of WASH interlinkages with other SDG targets	79
<b>Management and planning</b>	275
<b>Total</b>	<b>2,565</b>
<b>Balance</b>	<b>1,489</b>



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

