

Welcome to the global portion of the hackathon!

Our theme this year focuses on one of the United Nation's Sustainable Development Goals, specifically: Goal No. 6, which aims to "Ensure availability and sustainable management of water and sanitation for all."

The goal includes a variety of targets the UN hopes to reach by 2030, as well as statistical indicators to assess how well countries are meeting those targets. With data compiled by the UN and other organizations, your challenge is to prototype a visualization, interactive, or other ways to tell a story, highlight new solutions to help reach the UN's goal, or help policy makers and journalists when evaluating broad or country-specific success toward reaching the goal.

The individual targets that make up Sustainable Develop Goal No. 6, the statistical indicators attached to each target, and the data sources used to assess those indicators are listed at the end of this document. The UN has already done the work of compiling all of the data it uses to assess countries' compliance with Goal No. 6, and a spreadsheet with country-by-country data from 2000 to 2019 is available on our github site here: <http://i.mp/FOIAFestData>

For a deeper dive, you might also wish to explore any of the following individual data resources. The first four are sources of the data compiled by the UN, and the last two are general portals that include data on water and sanitation:

- **The WHO/UNICEF Joint Monitoring Programme for Water Supply** is a global database of nearly 5,000 datasets on drinking water, sanitation and hygiene.
<https://washdata.org/data>
- **GEMStat**, the Global Environment Monitoring System, has detailed data on pollutants in various waterways
<https://gemstat.org/data/>
- **AQUASTAT** is maintained by the Food and Agricultural Organization of the United Nations and is used to calculate "water use efficiency."
<http://www.fao.org/nr/water/aquastat/sets/index.stm#main>
- **Centre on Water and Environment**, a joint project of UN Environment and the Danish group DHI, evaluates water resources management.
A spreadsheet of current scores is available on our github site here: <http://i.mp/FOIAFestData>
For more-detailed country-by-country information, including data from previous years, go here: <http://iwrmdataportal.unepdhi.org/dataoverview.html>.
- **World Health Organization Global Health Observatory** has data on water, sanitation and hygiene.
<http://apps.who.int/gho/data/node.main.166?lang=en>
- **Open SDG Data Hub** provides geospatial data and an API Explorer for data related to the Sustainable Development Goals.
<http://www.sdg.org/search?groupIds=e03793e08ed849be8e8b3abebf7ec983&sort=name>

Good luck! And thanks for participating.

SUSTAINABLE DEVELOPMENT GOAL 6

Ensure availability and sustainable management of water and sanitation for all

TARGET	INDICATOR 1	INDICATOR 2
6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all	6.1.1 Proportion of population using safely managed drinking water services	
6.2 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 Proportion of population using safely managed sanitation services, including a hand-washing facility with soap and water	
6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally	6.3.1 Proportion of wastewater safely treated	6.3.2 Proportion of bodies of water with good ambient water quality
6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity	6.4.1 Change in water-use efficiency over time	6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources
6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate	6.5.1 Degree of integrated water resources management implementation (0-100)	6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation
6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes	6.6.1 Change in the extent of water-related ecosystems over time	
6.A By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies	6.A.1 Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan	
6.B Support and strengthen the participation of local communities in improving water and sanitation management	6.B.1 Proportion of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management	

- Here are the sources of data the UN draws on in assessing each of the indicators listed above:

INDICATOR	PRIMARY SOURCE	SECONDARY SOURCE
6.1.1	WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (2019)	
6.2.1	WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (2019)	
6.3.1	WHO 2018	
6.3.2	Environment Live	
6.4.1	Food and Agriculture Organization of United Nations (FAO)	
6.4.2	Food and Agriculture Organization of United Nations (FAO)	
6.5.1	Environment Live, UNEP	
6.5.2	Data compiled by UNECE and UNESCO as co-custodians	Relevant country authority
6.6.1	Global Surface Water Explorer extraction for UN Environment	Environment Live
6.a.1	The Organisation for Economic Co-operation and Development (OECD).	
6.b.1	Key indicators of the UN-Water Global Analysis and Assessment of Sanitation and Drinking-Water (GLAAS).	

- Detailed explainer sheets for each indicator – covering rationale, methodology, limitations and other information – are available at this website:
<https://unstats.un.org/sdgs/metadata/>