



unicef



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for every child

Open Data Platform

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# United Nations International Children's Emergency Fund

- established in 1946
- to provide immediate relief to children and mothers affected by World War II



now: United Nations Children's Fund

- over 190 countries and territories
- works to protect the rights of every child, help them survive, thrive and fulfil their potential.

# Open Data Platform

**WHAT?**

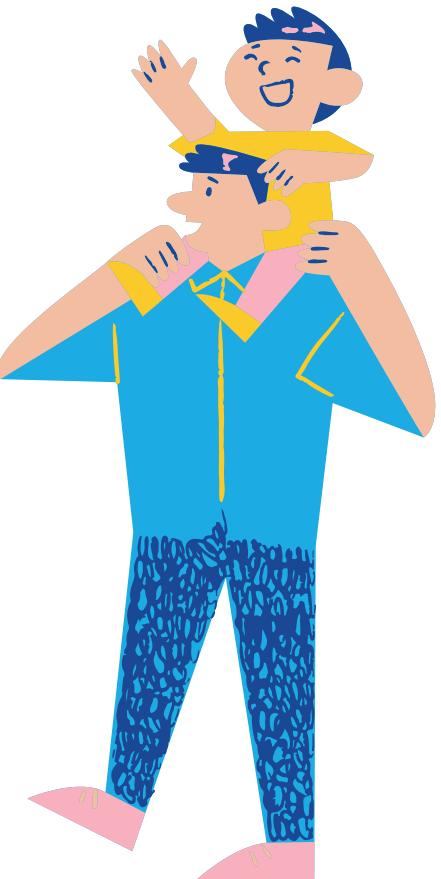
- statistical, **structured data** on the situation of children and women around the world

**FOR  
WHOM?**

- governments, other UN agencies, international NGOs, think tanks and academics, media and individuals

**WHY?**

- provide insights to prompt action to improve the lives of children and women



- <https://data.unicef.org>

## HOW?

- data is collected via programmes and studies such as:

- <https://mics.unicef.org/>



Multiple Indicator Cluster Surveys (MICS)  
=> UNICEF's global household survey program

- <https://www.worldbank.org/en/programs/lsms>



- <https://www.dhsprogram.com/>



*and more.....*



# SUSTAINABLE DEVELOPMENT GOALS



- including indicators from the Sustainable Development Goals (SDGs) related to children

SDGs for Children - UNICEF Data



https://data.unicef.org



UNICEF Data: Monitoring the situation of children and women

Search...



DATA BY TOPIC ▾

DATA BY COUNTRY ▾

RESOURCES ▾

SDGS

QUERY DATA ▾

BLOG



## The State of the World's Children 2024 – Statistical Compendium

The future of childhood hangs in the balance if urgent action is not taken to safeguard children's rights in a changing world. *The State of the World's Children 2024: Statistical Compendium* presents the most recent key statistics on child survival, development and protection for the world's countries, areas and regions.

[Access the compendium](#)



How Many?



Publications



Datasets



Guidance



Journal articles



Data visualizations &  
dashboards

# Data by topic

<b>ADOLESCENTS</b>	<b>EDUCATION</b>	<b>MATERNAL AND NEWBORN HEALTH</b>	<b>CHILD NUTRITION</b>
<b>CHILD AND ADOLESCENT HEALTH</b>	Pre-primary education Primary education Secondary education Learning and skills Remote learning and digital connectivity	Antenatal care Delivery care Maternal mortality Newborn care	Child malnutrition Women's nutrition Low birthweight Infant and young child feeding Breastfeeding Diets Iodine Vitamin A
Early childbearing Diarrhoeal disease Immunization Malaria Mental health Pneumonia Non-communicable diseases	<b>GENDER EQUALITY</b>	<b>MIGRATION</b>	<b>POVERTY</b>
<b>CHILDREN WITH DISABILITIES</b>	Gender norms and unpaid work Child marriage Sexual and reproductive health Female genital mutilation Intimate partner violence	Migration Displacement	<b>PROTECTION</b>
<b>CLIMATE CHANGE</b>	<b>HIV/AIDS</b>	<b>MORTALITY</b>	<b>WATER, SANITATION AND HYGIENE</b>
<b>EARLY CHILDHOOD DEVELOPMENT</b>	Global and regional trends EMTCT Paediatric Adolescent treatment Adolescent prevention	Stillbirths Neonatal mortality Under-5 mortality Child and youth mortality, ages 5-24 Child survival and the SDGs	Water Sanitation Hygiene
Development status Early childhood education Home environment			



# How to access

## Main Website UI

<https://data.unicef.org>

- simple method to access data
- download as CSV/Excel
- multiple ways based on specific needs
  - [data by topic](#)
  - [data by country](#)
  - [query data warehouse\\*](#) => more specific filters  
(indicator, year range, geographic area, sex)



\*UNICEF uses a custom catalogue system  
for their data warehouse

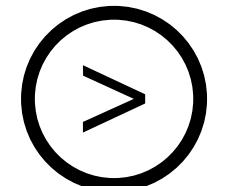
## Web Services

<https://sdmx.data.unicef.org/webservice/data.html>

<https://data.unicef.org/sdmx-api-documentation/>

- more advanced, programmatic method
- SDMX\* API Query
- CSV, JSON, XML
- need to understand the data structure:  
*Dataflow (Agency Id, Id, Version), Dimension & Codelist*

\*The Statistical Data and Metadata eXchange (SDMX) is an ISO standard designed to describe statistical data and metadata. It is used by the UN and many other statistical organizations.



Demo

# Data Quality



- use unique identifiers for querying and retrieving specific data
- but not in RDF format
- is it consistent?

Link your data to other data to provide context.



Use URIs to denote things, so that people can point at your stuff.



Make it available in a non-proprietary open format (e.g., CSV instead of Excel)



Make it available as structured data (e.g., Excel instead of image scan of a table)



Make your stuff available on the Web (whatever format) under an open license.



# Thank you!

Feel free to ask questions if you have any.

