



United
Nations

SDMX for SDG Indicators

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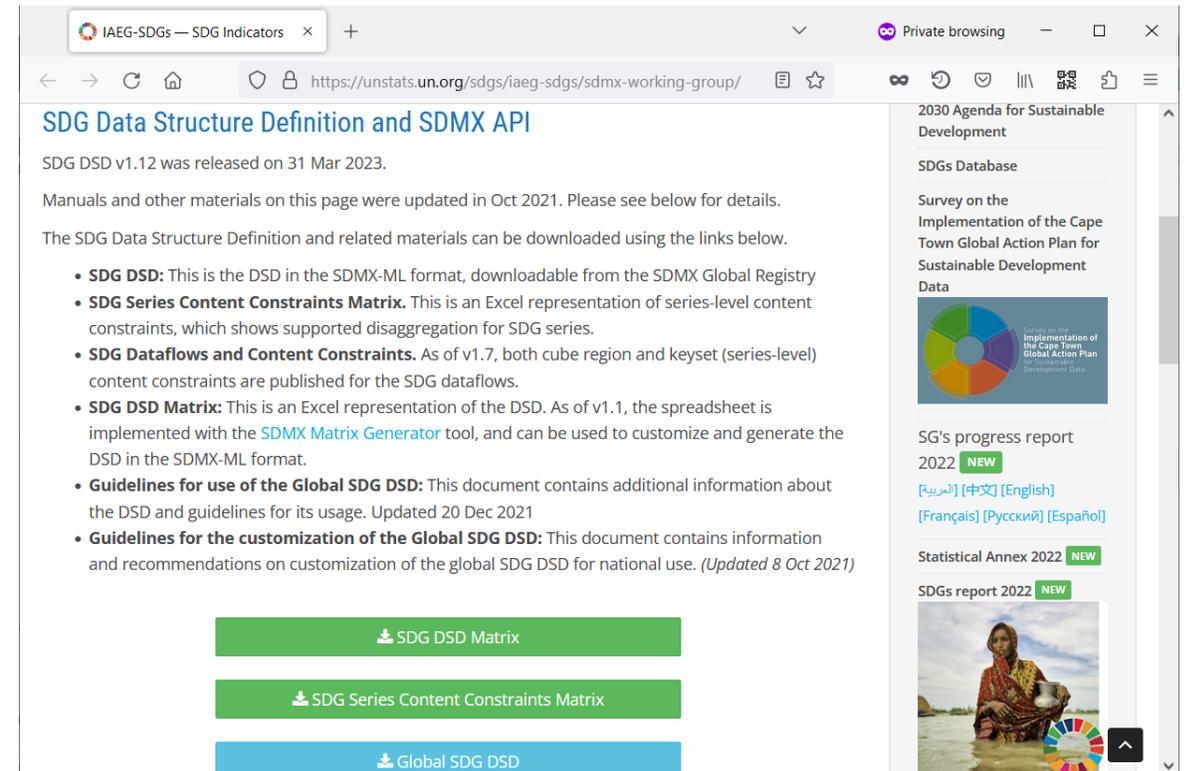
United Nations Statistics Division

12 April 2023

Working Group on SDMX for SDG Indicators

- Established by the IAEG-SDGs
- Objectives:
 - Develop global Data Structure Definition(s) and Metadata Structure Definition(s) for SDG Indicators
 - Develop, pilot, and establish data exchange mechanisms for SDG indicators

<https://unstats.un.org/sdgs/iaeg-sdgs/sdmx-working-group/>



The screenshot shows a web browser window displaying the page "SDG Data Structure Definition and SDMX API". The page content includes:

- SDG DSD v1.12 was released on 31 Mar 2023.
- Manuals and other materials on this page were updated in Oct 2021. Please see below for details.
- The SDG Data Structure Definition and related materials can be downloaded using the links below.
- A list of resources for download:
 - SDG DSD:** This is the DSD in the SDMX-ML format, downloadable from the SDMX Global Registry
 - SDG Series Content Constraints Matrix.** This is an Excel representation of series-level content constraints, which shows supported disaggregation for SDG series.
 - SDG Dataflows and Content Constraints.** As of v1.7, both cube region and keyset (series-level) content constraints are published for the SDG dataflows.
 - SDG DSD Matrix:** This is an Excel representation of the DSD. As of v1.1, the spreadsheet is implemented with the [SDMX Matrix Generator](#) tool, and can be used to customize and generate the DSD in the SDMX-ML format.
 - Guidelines for use of the Global SDG DSD:** This document contains additional information about the DSD and guidelines for its usage. Updated 20 Dec 2021
 - Guidelines for the customization of the Global SDG DSD:** This document contains information and recommendations on customization of the global SDG DSD for national use. (Updated 8 Oct 2021)

At the bottom of the page, there are three download buttons:

- SDG DSD Matrix
- SDG Series Content Constraints Matrix
- Global SDG DSD

The right sidebar of the browser shows a navigation menu with items like "2030 Agenda for Sustainable Development", "SDGs Database", "Survey on the Implementation of the Cape Town Global Action Plan for Sustainable Development Data", "SG's progress report 2022", and "SDGs report 2022".

SDMX for SDG Indicators: Timeline

- Oct 2016: First meeting of the SDMX-SDG Working Group
- Apr-Sep 2018: Pilot SDG data exchange
- Jun 2019: First official release of the SDG Data Structure Definition (DSD) and start of production metadata exchange
- May-Nov 2020: Pilot SDG metadata exchange
- Feb 2022: SDG Global metadata set published at SDMX API

SDMX Global Data and Metadata Exchange: current status

- Data exchange established with 36 countries and metadata exchange with 16
- Data exchange established with 5 custodian agencies
 - Thanks to some of the largest reporters switching to SDMX, **>45%** of the global database now comes from SDMX exchange
- Global metadata set published at SDMX API
 - This made it possible to link data and metadata at the SDG Global Database web site

SDG Lab



- Online platform established by UNSD as part of the SDG Global Platform to facilitate automated data exchange of SDG indicators with countries and custodian agencies.
- Used by countries to detect differences between global and national datasets. Metadata is crucial to explaining the differences.



SDG Lab was developed as part of [the UNSD-FCDO Project on SDG Monitoring](#) and is open to all countries

Customization of the SDG DSD in countries

Global SDG DSD

- Used by both countries and Custodian Agencies to submit their data to the SDG Lab through the global dataflows
- Supports the official **global** SDG indicators and their disaggregation

National SDG DSDs

- Countries create national customized DSDs by extending the global DSD with their own **national** indicators and disaggregation
- Cannot be used to report to the SDG Lab
- Are used to disseminate the full national dataset in the SDMX format, as well as in support of dissemination platforms such as Open SDG
- Can be used to establish national SDG reporting dataflows

SDG Reference Metadata exchange

- Countries and custodian agencies complete an MS Word-based, structured template.
- The template is processed by a [Metadata Authoring Tool](#) that extracts rich metadata text and converts it to SDMX, which can then be uploaded to the SDG Lab
- Global and national metadata submitted to the SDG Lab is automatically available at the SDMX API
- Updates to global metadata must be cleared by the IAEG-SDGs. Once cleared, UNSD publishes metadata at the SDG Lab. The global metadata set is available at the SDMX API.
- [Metadata dissemination site](#) works off of the SDMX API and supports metadata visualization and download. The [Global SDG database](#) now links data and metadata thanks to the API.

To establish data exchange with SDG Lab...

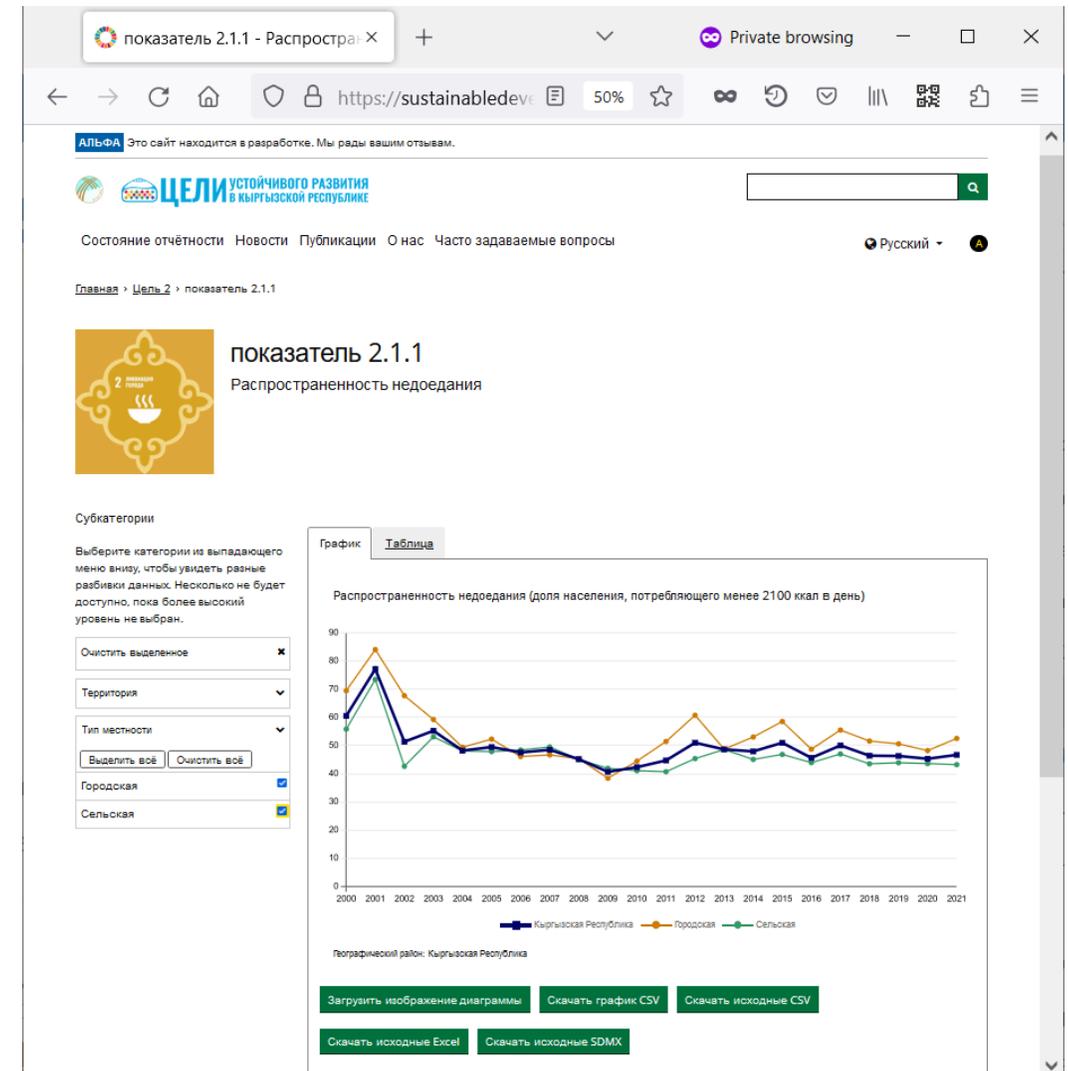
- Map your global indicators and disaggregation to the global SDG DSD
- Convert your global indicator data to SDMX
- Upload your indicators to the SDG Lab

To establish metadata exchange with SDG Lab...

- Compile metadata for your indicators
- Complete the SDG Metadata Template with compiled metadata
- Convert the completed template to SDMX using the SDG Metadata Authoring Tool
- Upload the metadata to SDG Lab

Open SDG

- Data dissemination and exchange platform that supports the global SDG DSD.
- Successfully and actively used by about 20 countries
- Open source, free to use, multi-lingual. Supported by the UK Office of National Statistics.
- Active cooperation with UNSD on data exchange.



Capacity Building

- Extensive training provided to 20 countries as part of the UNSD-FCDO Project on SDG Monitoring
- A series of online and in-person workshops for the ESCWA region
 - ESCWA aims to soon establish SDMX exchange with all its countries
- Training for countries in the African region as part of an ECA project
- Training for countries in the Asian region thanks to Asian Development Bank and ESCAP support
- Capacity building will be provided as part of the upcoming SDMX Global Conference

Capacity Building: e-learning

- The [SDMX Foundation e-learning course](#) is introductory training developed by the Asian Development Bank in cooperation with UNSD, ESCAP, and SIAP.
- Provides an overview of the Business Case as well as Content-Oriented Guidelines, IT Architecture and Tools, implementation steps

The graphic features a central blue circle with the text "ONLINE TRAINING COURSE Statistical Data and Metadata eXchange (SDMX) Foundation". To the left is a light blue circle containing the ADB logo, United Nations logo, and DESA Statistics logo. Below this is the text "LEARN and COLLABORATE" and "Participate in the online training. Registration will start on 13 February 2023." To the right is a QR code with the text "Scan to register". Below the QR code are the logos for SIAP (United Nations) and ESCAP 75 (United Nations). At the bottom left, it says "REGISTER at <https://elearn.adb.org/course/view.php?id=486>" and "Questions? Contact us at sdmx@adb.org".

ADB
United Nations | DESA Statistics

sdmx

Scan to register

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Capacity Building: e-learning (2)

- The [SDMX for SDG Indicators e-learning course](#) developed by UNSD and the SDMX-SDG Working Group
- Intended for participants with basic knowledge of SDMX
 - The SDMX Foundation course can be taken prior to the SDMX-SDGs course to satisfy the prerequisites
- Explores the SDG Data Structure Definition, SDG Dataflows and content Constraints, customization of the SDG DSD for national use, and other aspects of data exchange



SDMX User Forum

- An open and inclusive online community to connect and share knowledge on SDMX
- Part of the **Global Network of Data Officers and Statisticians**
- A forum where you can
 - Ask questions
 - Find or provide answers
 - Connect with experts and peers
- Join by clicking on this link:

<https://yammer.com/unstats/>



hosted on the



Thank you

