



# WELCOME TO ZIMBABWE NATIONAL STATISTICS AGENCY

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800  
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# Zimbabwe National Statistics Agency

## Overview of Zimbabwe Data Management System

**Godfrey T. Matsinde (NSS Coordination)**

**01 October 2024, Pretoria  
South Africa**



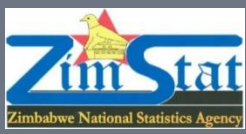
# INTRODUCTION



- The Zimbabwe National Statistics Agency (ZIMSTAT) is a corporate body established by the Census and Statistics Act.
- The Act prescribes ZIMSTAT as the main source of official statistics in Zimbabwe.



# Mandate of ZIMSTAT



## Who are we? ZIMSTAT???

Are a semi-autonomous agency under the **Ministry of Finance and Economic Development**

Mandated to:

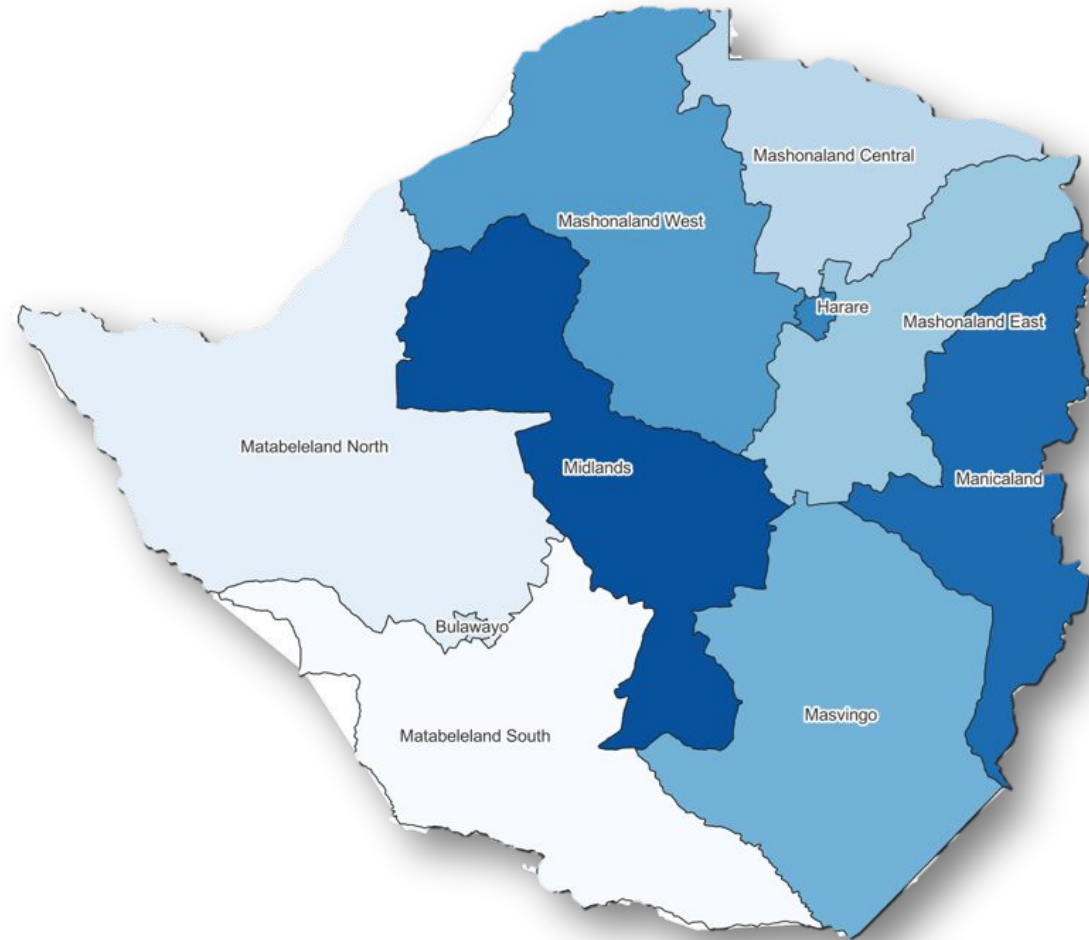
- collect, produce and disseminate official statistics
- coordinate and supervise the NSS

Activities regulated by the **Census and Statistics Act (CAP 10:29) of 2007** and provides for independence and oversight by a **Board of Directors**



## NATIONAL PRESENCE

- ZIMSTAT has offices located in all 10 Provinces of Zimbabwe.
- Offices are cascaded down to districts.





# DATA PRODUCTION



ZIMSTAT prescribes to international best practices as highlighted in the UN Fundamental Principles of Statistics as well as the African Charter on Official Statistics.

Such data has to meet internationally recognized standards and classifications.



# DATA STANDARDS

- Data standards refer to the established guidelines, rules, and formats for collecting, storing, processing, and exchanging data. These standards ensure data:
  - 1. Quality
  - 2. Consistency
  - 3. Interoperability
  - 4. Reusability
  - 5. Accuracy

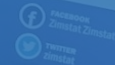
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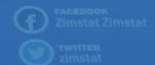
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# DATA STANDARDS

At ZIMSTAT just like other NSOs Data standards ensure accuracy, consistency, and comparability of statistical data

International Standards:

1. United Nations Fundamental Principles on Official Statistics
2. International Monetary Fund (IMF) - Balance of Payments Manual
3. World Bank - Open Data Standards
4. Organization for Economic Co-operation and Development (OECD) - Statistical Standards
5. International Statistical Institute (ISI)





# DATA CLASSIFICATIONS

- Data is produced according to international classifications some of which include:



1

**International Standard Industrial Classification (ISIC)**

2

**International Standard Classification of Occupations (ISCO)**

3

**International Classification of Diseases (ICD)**

4

**Classification of Individual Consumption According to Purpose (COICOP)**



# DATA SHARING



- Data sharing in statistics involves the exchange of data between organizations, researchers, or stakeholders to promote collaboration, efficiency, and informed decision-making. Benefits:



# TYPES OF DATA SHARING



- Data produced by ZIMSTAT is for utilisation by Government including the various stakeholders within the NSS and is shared in various types.
- 1. Open data (publicly available)
- 2. Controlled data (access restricted)
- 3. Secure data (encrypted and protected)
- 4. Shared data (collaborative access)
- 5. Linked data (combining datasets)

Microdata (individual-level data)

Macrodata (aggregated data)

Metadata (data about data)

Administrative data (government records)

Survey data



# TYPES OF DATA MODELS



- Although there are several data sharing models, the most commonly used at the Agency is the open data.

The open model is mainly used for sharing SDG data on the Open Data Portal which is currently being developed to include meta data sharing as well as adoption of the SDMX platform.

Open data (publicly available)

Controlled data (access restricted)

Secure data (encrypted and protected)

Shared data (collaborative access)

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# Open Data Portal (ODP)

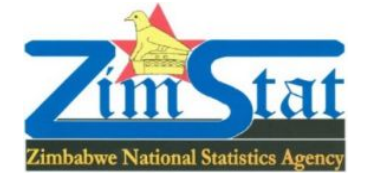


- The Open Data Platform (ODP) was developed through technical assistance from AfDB as part of Africa Information Highway
- The platform is not only dedicated to SDGs but allows the Agency to implement a one-stop platform where users can explore all statistical data being disseminated including Economic, Demographic and Social statistics.



## Open Data Portal (ODP) conti...

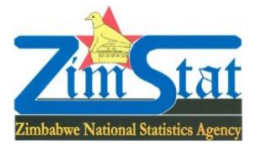
- ODP allow users to access a wide range of development data and the tool allows ZIMSTAT and Stakeholders among other things to:
  - a) Upload SDGs or National datasets and maintain them updated regularly.
  - b) Create Dashboard for each indicator once the data are uploaded
  - c) Publish through the SDGs page on which users can browse to visualize SDGs indicators.
  - d) Disseminate SDGs/ local metadata through a metadata page setup



# Open Data Portal Demonstration



# Open SDG



The ONS SDG team are responsible for developing [Open SDG](#). This is a **free-to-use, open-source platform for managing and publishing data and statistics** related to the SDGs

The aim is to inform users of each country's contribution to the global agenda and **inform decision making for a sustainable future**

Zimbabwe data for the Sustainable Development Goals

Select each goal for indicator data.



Download all data (.zip)

[Download all data \(.zip\)](#)

Size: 17.8 kB  
Data last updated - Sep 30, 2024

ZimStat at SDG

Zimstat has a mission of producing effective and efficient statistical system that contributes to the improvement of the wellbeing of all citizens by 2030 including SDGs, it is the implementing Agency.

[Read more](#)

Publications & Useful resources

[National Strategy for the Development of Statistics III \(NSDS III\)](#)

[Zimbabwe Peer Review of the National Statistical System Report](#)

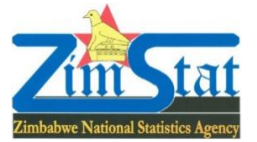
[The Sustainable Development Goals in Zimbabwe](#)





# Open SDG – Reporting Data platform

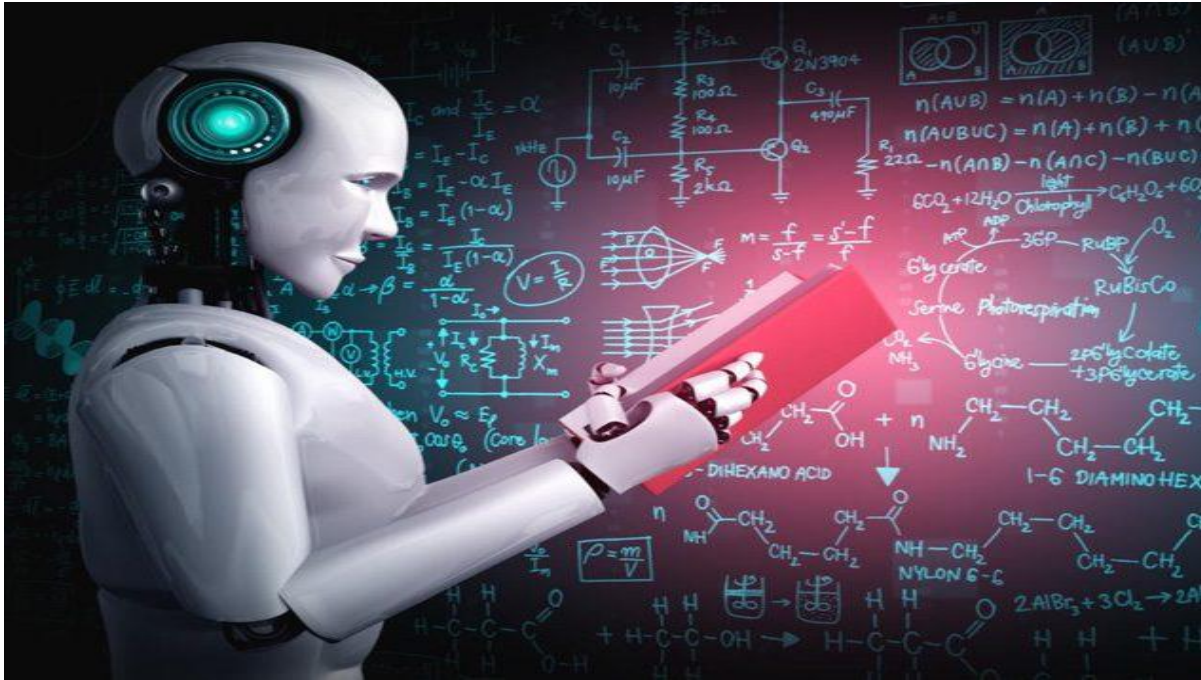
## Sustainable Development Goals (SDG)



- Open source
- Free to reuse
- Supports SDMX (Statistical Data and Metadata eXchange)
- Disaggregation
- Accessible
- Collaborative
- Fully customisable
  
- <https://sdg-zimbabwe.github.io/site/>



# DATA INTEROPERABILITY

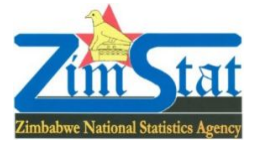


Interoperability refers to the standards, protocols, technologies, and mechanisms that allow data to flow between diverse systems with minimal human intervention. It allows diverse systems to talk to each other and share information in real time.

As part of the Modernisation and Innovation drive, ZIMSTAT partnered some international bodies and NSOs to assist technically to improve data exchange through the introduction of modern tools and systems.



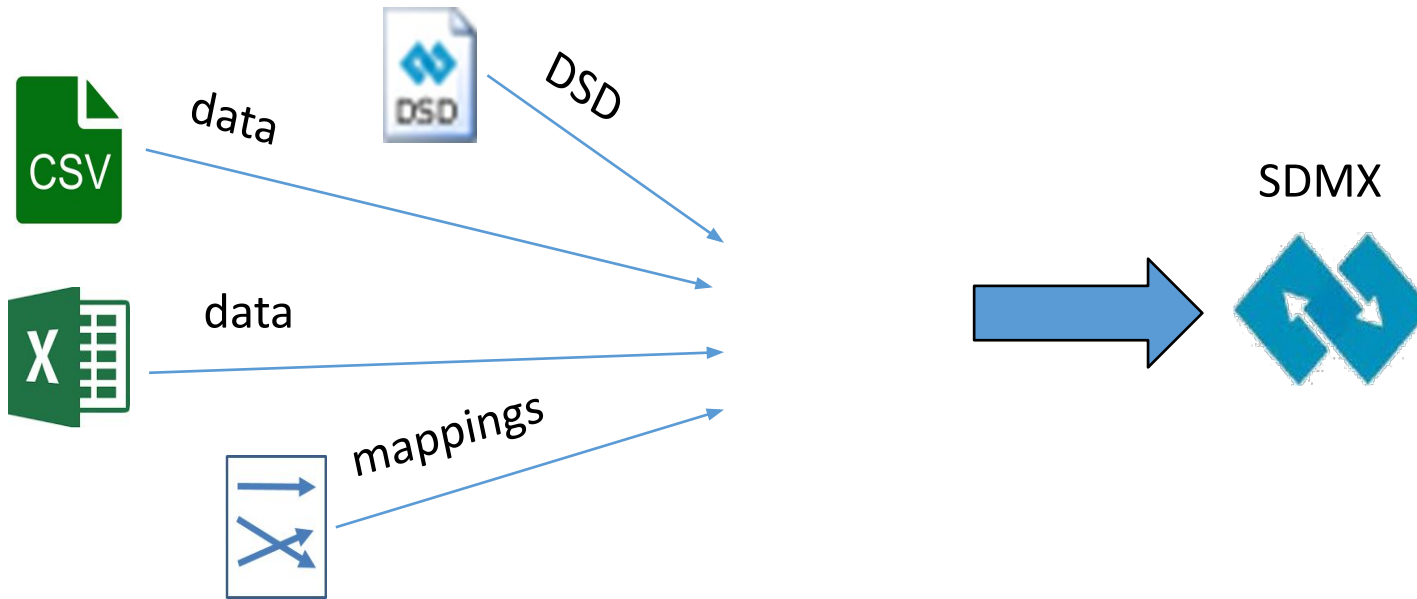
# GitHub



Open SDG platforms are run through GitHub where you can:

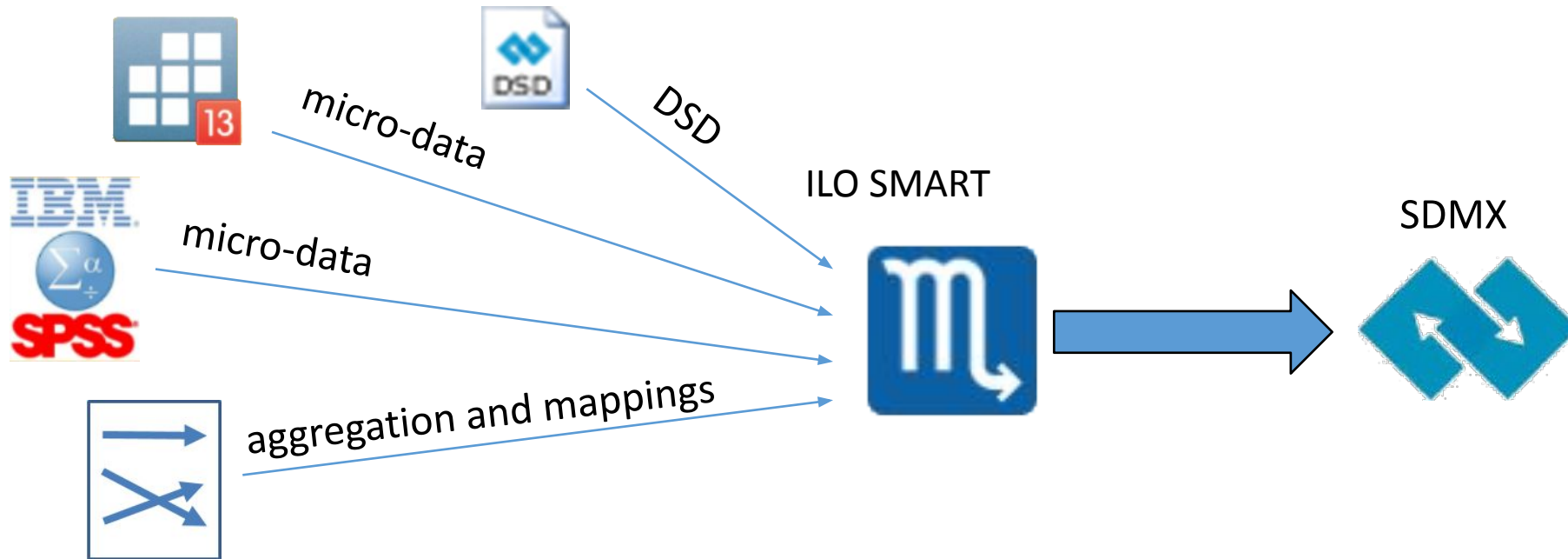
- Control a **site** repository and a **data** repository which join together to make your platform.
- Allow access to your whole team to edit and upload data and metadata.
- Join the Open SDG community on the [Open SDG discussions](#) page and raise any problems on the [issues page](#).







# Scenario: micro-data to SDMX



- The ILO SMART tool enables the user to define aggregation operations on micro-data sets, map the aggregates to codes and concepts of a DSD, and convert the data to SDMX
- No software development
- Most effort goes to defining aggregation and mapping



# CHALLENGES

1. Cyber security Framework
2. Lack of adequate resources for all planned activities
3. Data quality and validation  
(Development of a Quality Assurance Framework)
4. Metadata standards
5. Governance and regulatory frameworks
6. Slow adoption of available modern digital technologies





# OPPORTUNITIES AND NEXT STEPS

ZIMSTAT plays a critical role in the country on the provision of quality data. As a result the Agency needs to modernize in line with global trends and some of the short term initiatives include:

- Use of Alternative Data Sources (Citizen generated, Big Data,
- Increase Partnerships with International Bodies to improve availability of modern technologies and digital skills
- Introduce electronic data sharing
- Expanding use of SDMX for metadata sharing
- Tracking goal and indicator progress (Agenda 2030, Agenda 2063)
- Building capacity on use of modern tools and software, python
- Strengthen coordination of the NSS ( Data for Dev. & Innov. Committee)