Unleashing the Power of Data

The Africa Information Highway's Approach to Implementing SDMX in Africa.

Data Innovation Lab

Towards data driven Africa

Open data Ecosystem

Beyond data provision paradigm
Integrate other stakeholders' perspectives
Starts with creating community around data

SDMX

Standardize data structures and
enhance their quality

Open Data Portals

Enhance data accessibility and
usability

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Africa Information Highway Principles

01 Reduce Friction

reduce friction by implementing SDMX to automate data exchange

02 Data Augmentation

Implementing SDMX contributes to the improvement of data quality.

03 Collect once, Use and Reuse

efficient and sustainable practice of gathering data with the intent of maximizing its utility by employing it across various applications

04 Harness the power of partnerships

emphasizing the importance of using collaborations to amplify the impact of data initiatives and innovation, enabling collective efforts to address complex challenges effectively

Data Augmentation

Collect once, Use and Reuse

sdmx

Reduce Friction

Harness the power of partnership

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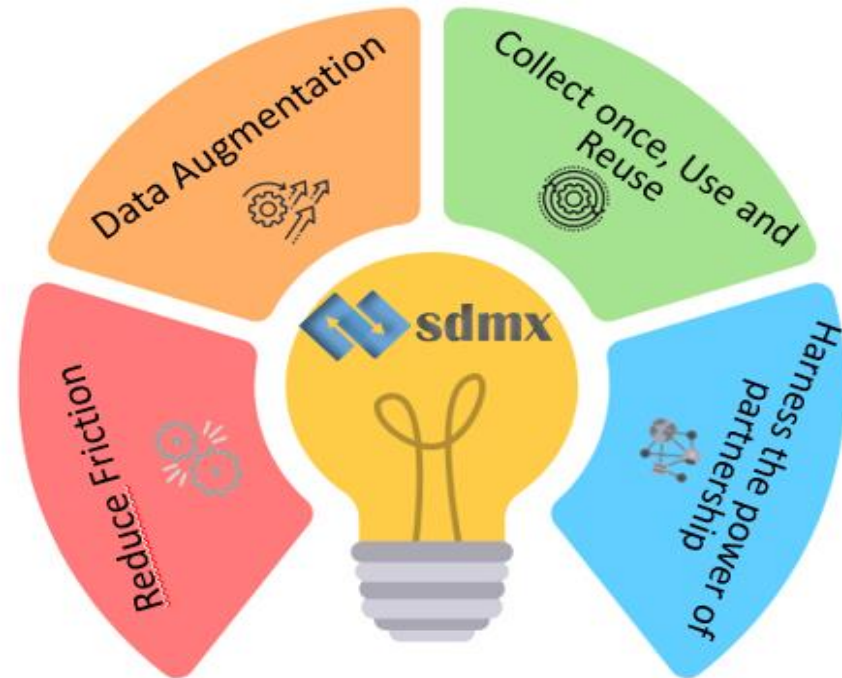
Tools

- Providing **free open** source tools
- **Easy** to deploy and use
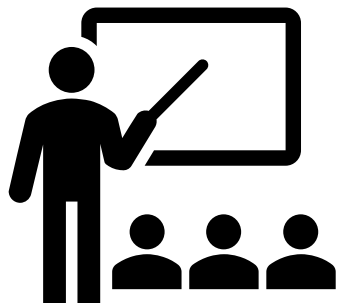
Sub regional hubs

- Sub regional **partnerships**
- Building a **network** of SDMX experts

Knowledge sharing

- **Clustering** countries
- Providing technical **assistance**

Technical assistance

- No African country left behind

- **Clustering** countries with similar capabilities

- **Hybrid** approach (remotely and physical country missions)

- Annual SDMX **work plan**

- **Sustain** skills and knowledge

- Encourage **innovation** in the use of SDMX

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Capacity building
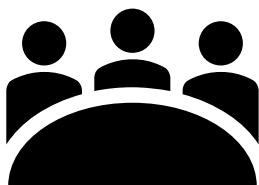
04

SDMX Regional Workshops

25

Trained countries

➢ AfDB acts as a **relay** to transfer SDMX knowledge and skills to Africa

➢ Workshops, trainings and country missions (country and regional level)

➢ Build countries' capacities to **manage**, **disseminate** and **report** data in SDMX format

➢ Offer a solid understanding of SDMX and **skills** to **harmonize** data structures

➢ **Simplify** learning SDMX path by mapping SDMX vocabulary with used terminologies

➢ **Streamline** data modeling process using generic Data Structure Definition

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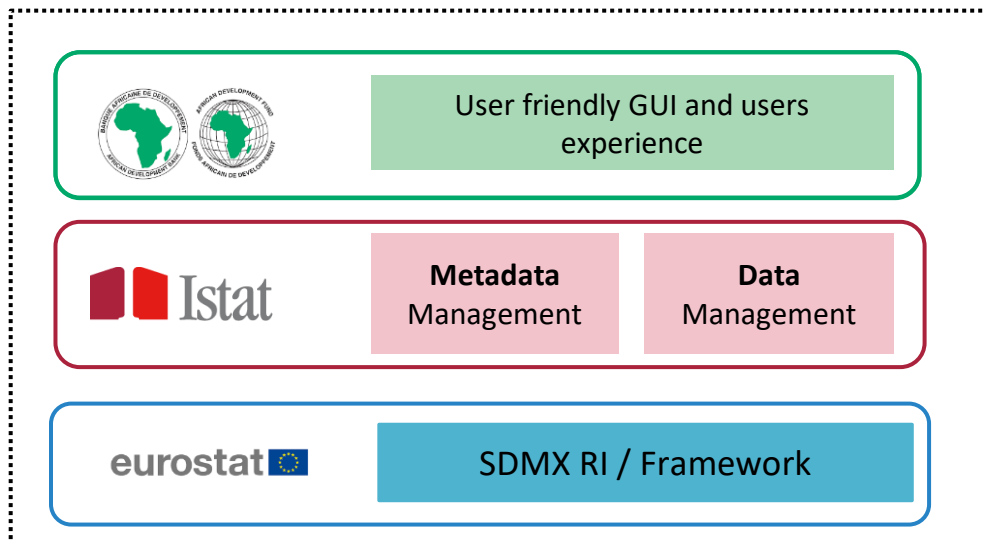COMESA

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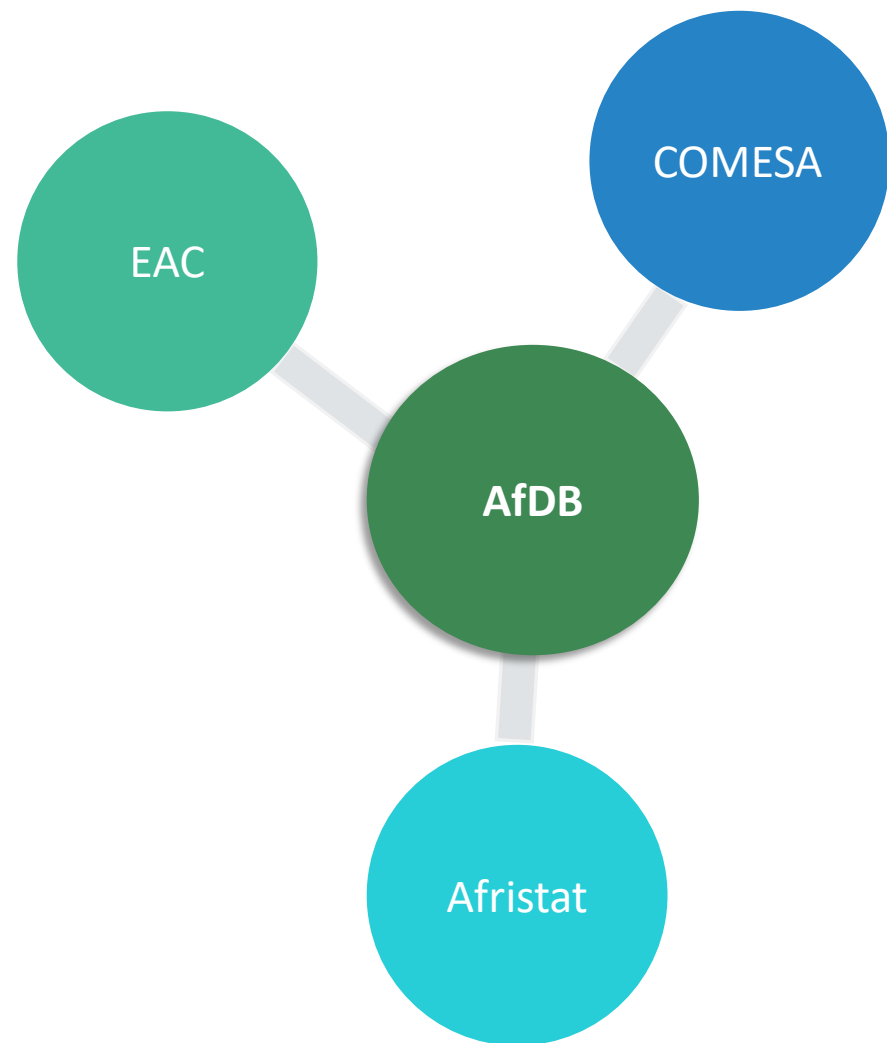
- The **hubs** are hosted by the sub regional organizations

- Build countries' capacities within the region to **manage**, **disseminate** and **report** data in SDMX format

- At least one staff of the sub regional organization should be **certified** as an AIH trainer

- A **network** of experts from the hubs to better support countries
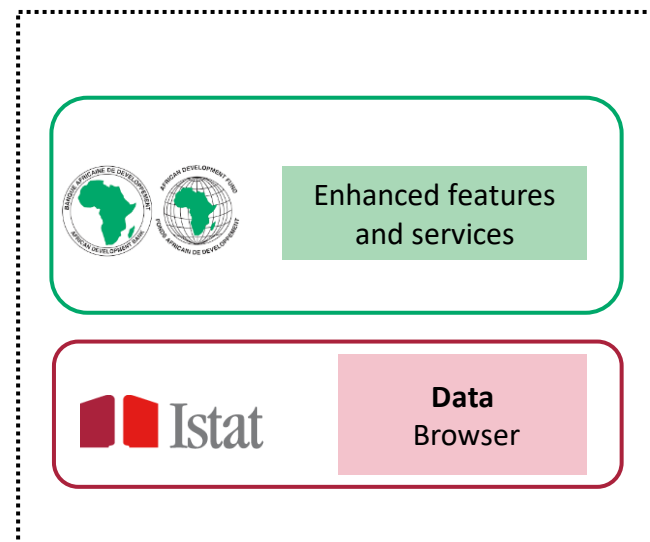
SDMX tools and technologies
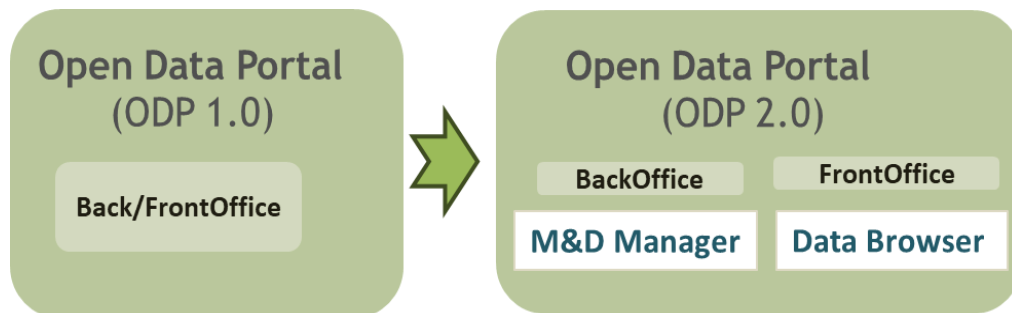
- **Open** source
- **Easy** to install and configure for African countries
- **Interoperability** & scalability
- **Multilingual** & customizable
- **Hybrid** deployment (countries' premises or AfDB Data centers)

Open Data Portal (ODP 1.0)
Back/FrontOffice

Open Data Portal (ODP 2.0)
BackOffice | FrontOffice
M&D Manager | Data Browser

Backend

User friendly GUI and users experience

Istat: **Metadata** Management | **Data** Management

eurostat: SDMX RI / Framework

API

Frontend

Enhanced features and services

Istat: **Data** Browser

Open Data Portal (ODP 2.0)

M&D Manager

Metadata Manager

- SDMX Registry
- Nomenclature server
- DCAT data catalogs

- Structural metadata management
- Reference metadata editor

Data Manager

- Data cubes
- Mapping
- Data loading
- Data flows

- Plugin Manager
- Mapping Handler
- Transformation   *NEW*
- Processing (aggregation/derivation)
- Easy loader

Data browser Manager

Dissemination

- GUI (Data Browser)
  NEW Custom pages
- M2M (APIs)
  - SDMX
  - CKAN (DCAT)

Reporting

- Ad-hoc utilities

Building Structures

Mapping data cubes on ECOFIN DSD

Publishing Data categories

Example of feature ODP 2.0- Easy Loader

Example of feature for ODP 2.0- Mapping Handler

Way forward

Formalize
the hubs

data modeling
capacity building

Migration to the
new system

Partnerships

- In collaboration with sub-regional organizations, the Bank will continue to implement its ambitious program with the aim of making a tangible impact in Africa

- Considering the vast size of the African continent and the substantial need for skills, the Bank remains open to collaborating with all SDMX sponsor agencies for a mutually impactful partnership to drive effective SDMX implementation in Africa.

Reveal the Power of Data in Africa

Thank you

Contact us

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