



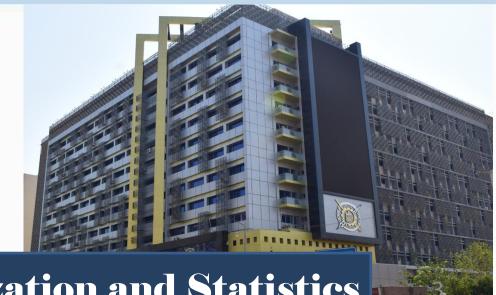
Outline



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About CAPMAS



Central Agency for Public Mobilization and Statistics



Who We are?



About CAPMAS SDMX Trip Mars **Statistical Functions Achievements Going Forward**

- ✓ The Central Agency for Public Mobilization and Statistics is the official national body that provides all state agencies with reliable data and statistics that decision-makers, as well as stakeholders and researchers in all fields rely on, So its roles are to:
- Develop, coordinate and harmonize statistics with all state agencies.
- Provide the high quality statistical and knowledge products and services necessary to support the Agenda2030 with all initiates.
- Support monitoring the implementation of the SDGs wit all international organization.
- Highlight the gaps in data to make the process of development cover all the country levels.
- Provide up-to-date data for all throw its site.

A cooperative partnership
between the National
Statistical Systems and
CAPMAS, powered by the
Standing Committee for
Statistical Affairs



CAPMAS statistical strategy





Statistical analysis and knowledge production

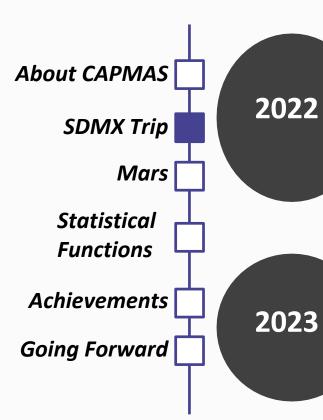
Collect data from various sources with various forms

Diversify sources Take advantage of emerging sources



SDMX Trip in CAPMAS





 Started a training about SDMX and Fusion Registry9. AS a literature review about the SDMX manuals with ESCWA.

2023

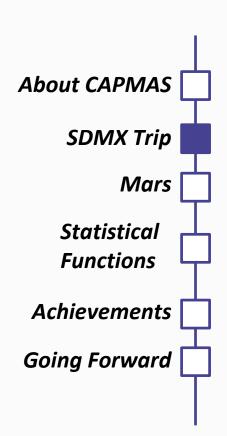
 Updating and reviewed about 77 indicators of SDG data file in SDMX format in the first stage with ESCWA as a step to update the national reporting platforms.



What is SDMX?



Statistical Data and Metadata eXchange (SDMX)



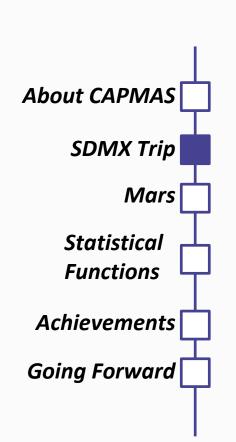
• SDMX is considered the international language of statistics, which effectively contributes to unifying the form and structure of statistical data and data until it has become an international standard and approved by obtaining the ISO 8 certificate.



Our Benefits



Statistical Data and Metadata eXchange (SDMX)



Collection

Processing

Storing

Dissemination

- Transfer of Data & Metadata
- Automate and scheduled data collection
- Standardization
- Unifying the DATA Structure



- Data processing governance
- Data quality
 - Audit
 - Correctness
 - accuracy
 - Timing
 - Relevance
 - Completeness
 - Trust
 - Standardization

- Auto-updating
- Save historical data
- Multiple copies of data structures

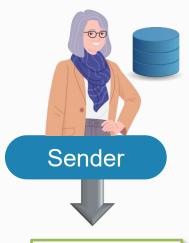


- Indexing statistical data
- Inquiry and search-Review and describe data
- controls and restricting publication
- Downloading datamachine-to-machine publishing
- switching between the Classifications

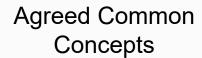




What Makes Statistical Messages **Exchange Effective?**







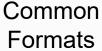


Structures with Complete Information











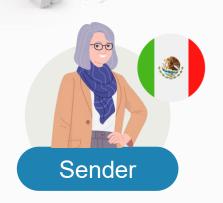


Stable and Predictable **Exchange Scheme** And Mechanism (Process)

What Are the Problems in the Convention

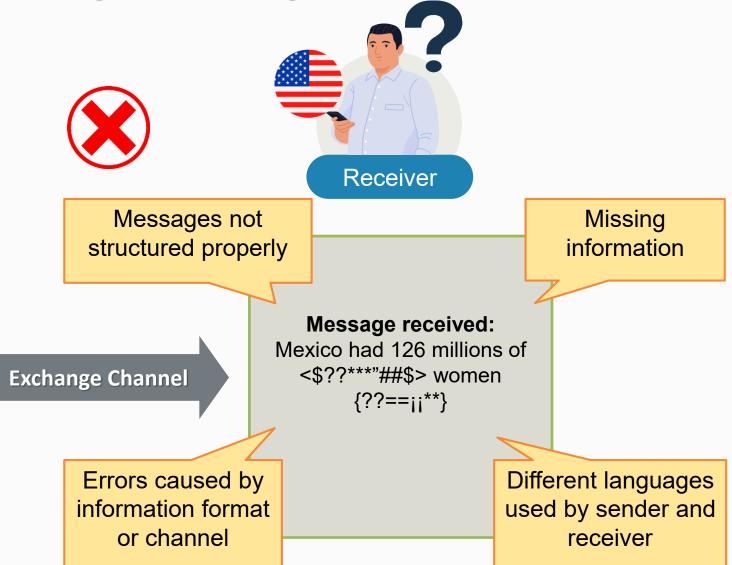






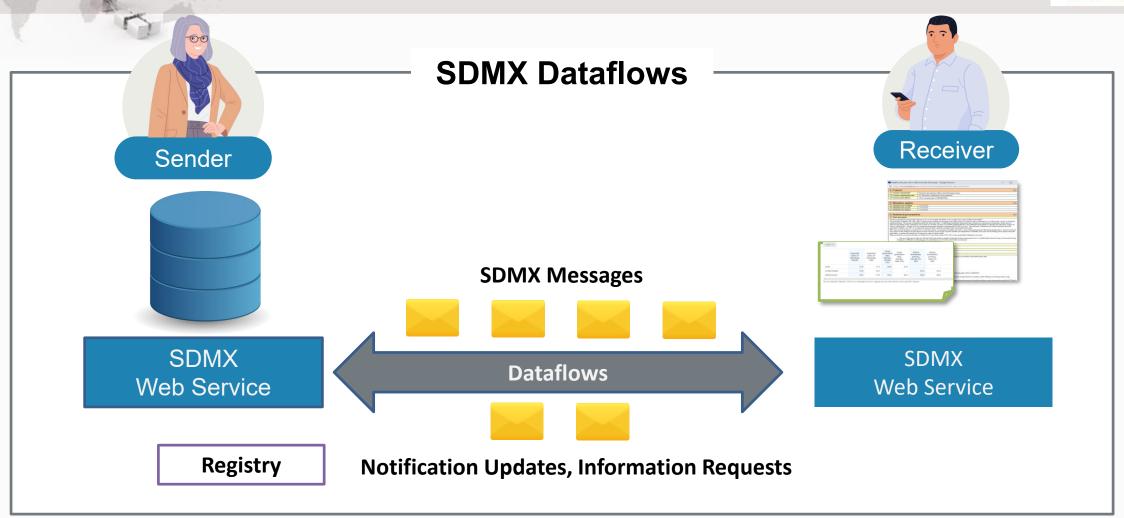
Message sent:

En 2020 Mexico tenía 126 millones de habitantes, aproximadamente la mitad eran mujeres



SDMX Statistical Messages Exchange







SDMX Components





Technical Standards



Statistical Guidelines



IT Architecture and Tools

(Core of SDMX)

- Formats
- Structures
- Functionalities

(Harmonisation and Governance of Concepts)

Management

- Concepts
- Classifications
- Methodologies
- Modelling

(Support of the SDMX Implementation)

- Design
- Map
- Package
- Exchange
- Disseminate

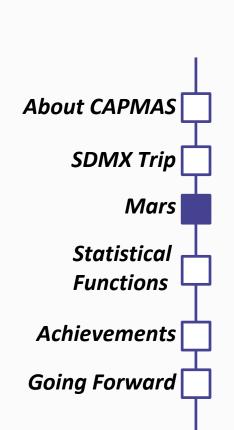


Overview about MARS Project



Overview about MARS System





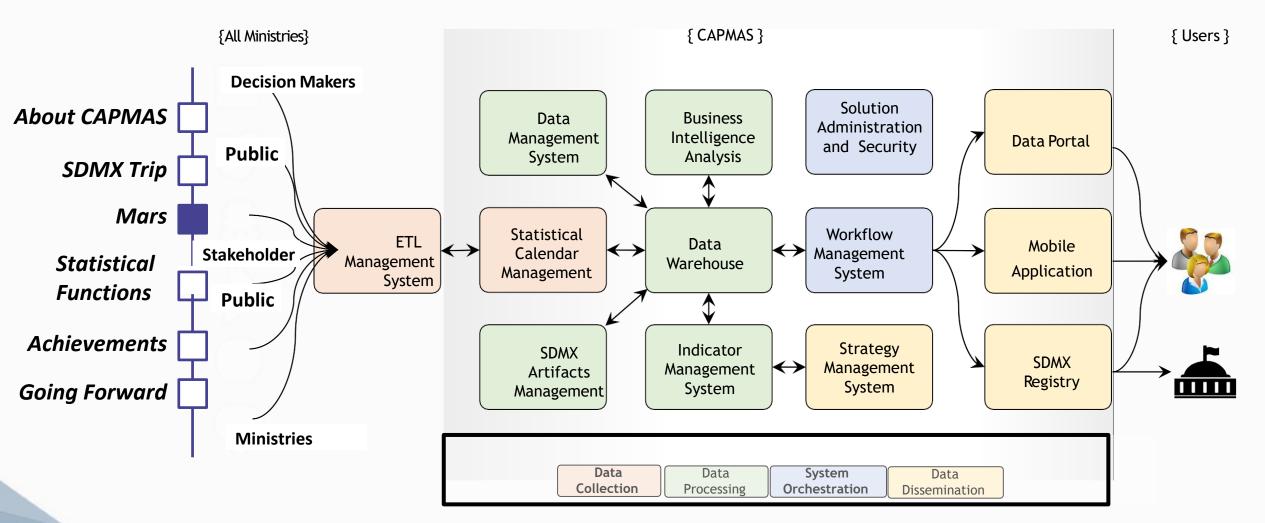
MARS: Is a monitoring application for reporting SDGs, which automated data collection, storage and dissemination system by ESCWA.

- ☐ Platform used by CAPMAS as the core practical solution.
- ☐ Its main functionality to provide "end-to-end" official statistics management in response to dynamic internal and external stakeholders needs.
- ☐ Its delivered a variety of services through the deployment of multiple integrated applications and tools.
- ☐ Integrated system between CAPMAS and the data source



Mars Platform Components







What is the Impact?



About CAPMAS SDMX Trip Mars **Statistical Functions Achievements Going Forward**

CAPMAS

- ✓ Fully Automated Data Project
- ✓ Fast way of exchange data
- ✓ Centralized data warehouse
- ✓ Measure the strategy indicators
- ✓ Filling the data gaps
- Cover various statistical topics with the Current resources.

Decision Makers

 Monitoring Strategy by Create special Dashboard for different topics. **Ministries**

Public

- ✓ Easy to search/store data
- ✓ User friendly data portal
- ✓ Select Multi-Datasets from Multi-Domains
- ✓ Interactive Dashboard



Employees

- Promote a culture of data science
- ✓ Simplify the use of the data warehouse
- ✓ Simplify analysis of the data
- Creation of the Dashboard
- Dealing with different parts of the system
- ✓ Save time & effort



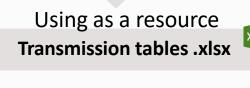


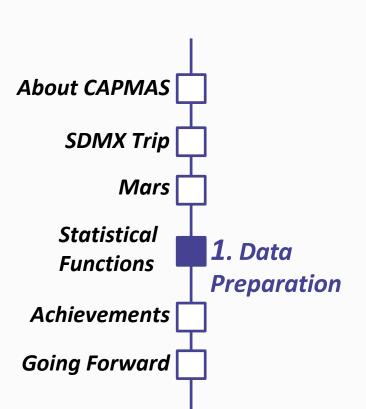
Statistical Functions



a. Structures Building







{ Brainstorming to specify: }



- Dimensions
- Attributes
- Measures
- Code lists
- Frequencies

{ Resulting in }



- Cross-section concepts
- Related section concepts
- Some tables need more than one DSD
- Naming ways of all artefacts and related IDs

Structure Modeling

Building **SDMX**artefacts in Fusion
Registry

Normalization

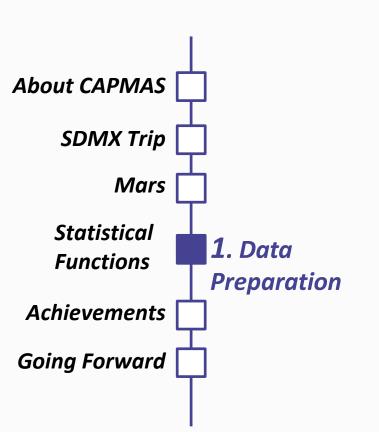
- Common Concepts
- Code-lists
- DSDs
- DFs
- Metadata

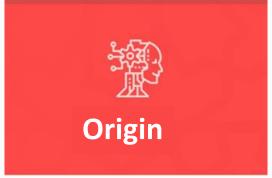
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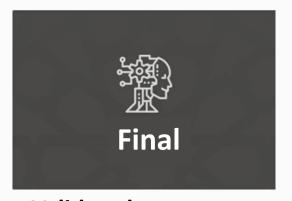
b. Building three registries to match Egypt needs







Store the original data from the data sources



Validated, Transformed to SDMX

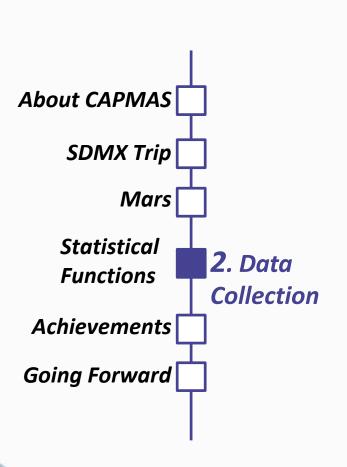


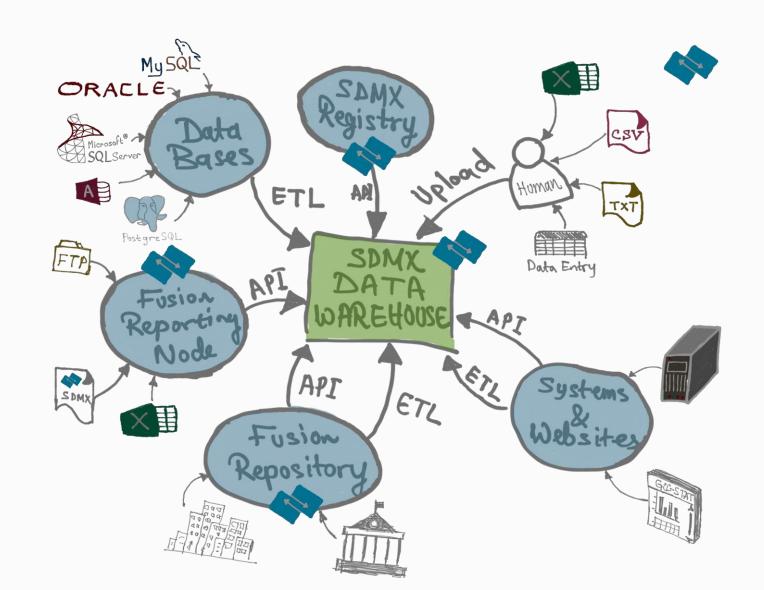
Approved data to be disseminated



Linking options



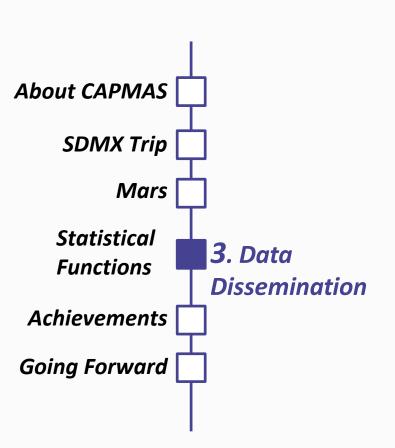






Egypt-Data Portal







Datasets

Linked to dissemination instant (dataset name, description, data, download as different data types).

3:02

Explorer

Linked Directly to dissemination instant and users can work with data and build there own tables.

Dashboards

make dashboards ready using Tableau or superset tools and embed them on the data portals as interactive dashboards.

4

Statistical Demand Management

Linked to dissemination and it is a place where we can build strategy and its goals and indicators are read and updated due to any update in the registry.

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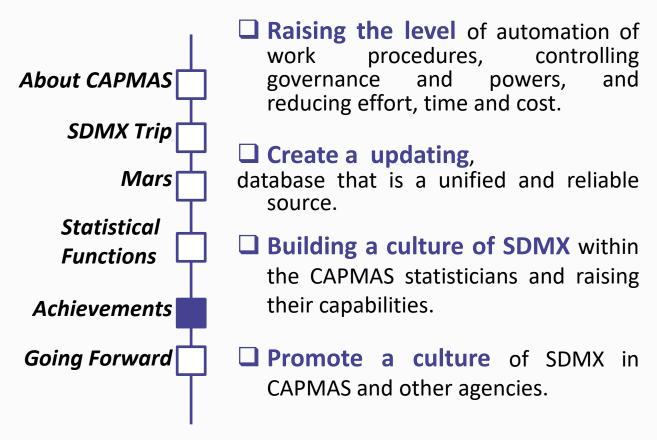


Achievements



Achievements





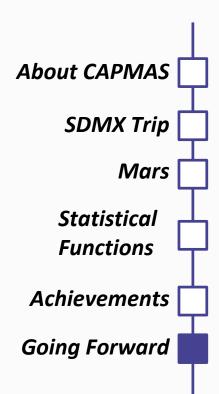
- Build an integrated solution that covers the entire statistics functions lifecycle from collection to dissemination.
- Ability to transfer data of large size or different shape and form.
- Ease of publishing which facilitates the process of exchanging data and from machine to machine.
- Readiness to auto connect with any data providers, regardless of their systems or technologies, and to automate and schedule the automatic fetching of statistical and descriptive data.



Going Forward



Going Forward

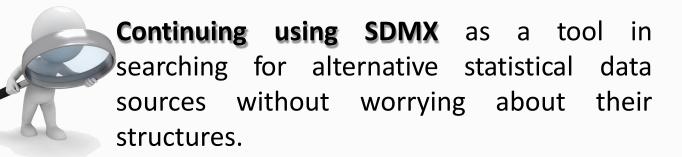






Support & &sist assistStatistical system in implementing the SDMX.

Completing the Automation collection process in CAPMAS and covering all the statistical fields.





Thank you for your attention Egypt