ESCWA Data Ecosystem and Implementation at the National Level

14 June 2023
New digital technologies provided additional data sources, and unconventional methodologies beyond surveys to tap into the wealth of data.

Connected citizens now provide data from:

- Mobile phones
- Social media
- Fintech transactions
- CCTV systems
- Smart watches
- Online activity
- Etc.
At ESCWA, we are developing a **data ecosystem** that leverages NSOs statistics as a data source, while capitalizing on new digital technologies to go beyond data collection.

We introduced 4 additional data layers:

1. **Data Sources**
   - Operational Systems
   - Statistical Systems/Data Providers/Member States (External and Internal)
   - Unstructured Data Sources (Web, News, Images, e-Discussions, etc.)

2. **Enterprise Data Warehouse & Data Lake**
   - Raw data, summary data, and metadata

3. **Data Marts Layer**
   - Contextualized data to Serve Particular needs
   - Trade Flows
   - SDG Gateway
   - GIS, MPI, etc.

4. **Analytics Layer**
   - Sentiment Analysis
   - Analytics
   - Reporting
   - Mining

5. **Data Access Layer**
   - Centralized Data Portal to access ESCWA Data Services (one-stop shop)
   - ESCWA Staff
   - MS, Partners, etc.
   - Portals, Data Aggregators
Thank you