



**United
Nations**

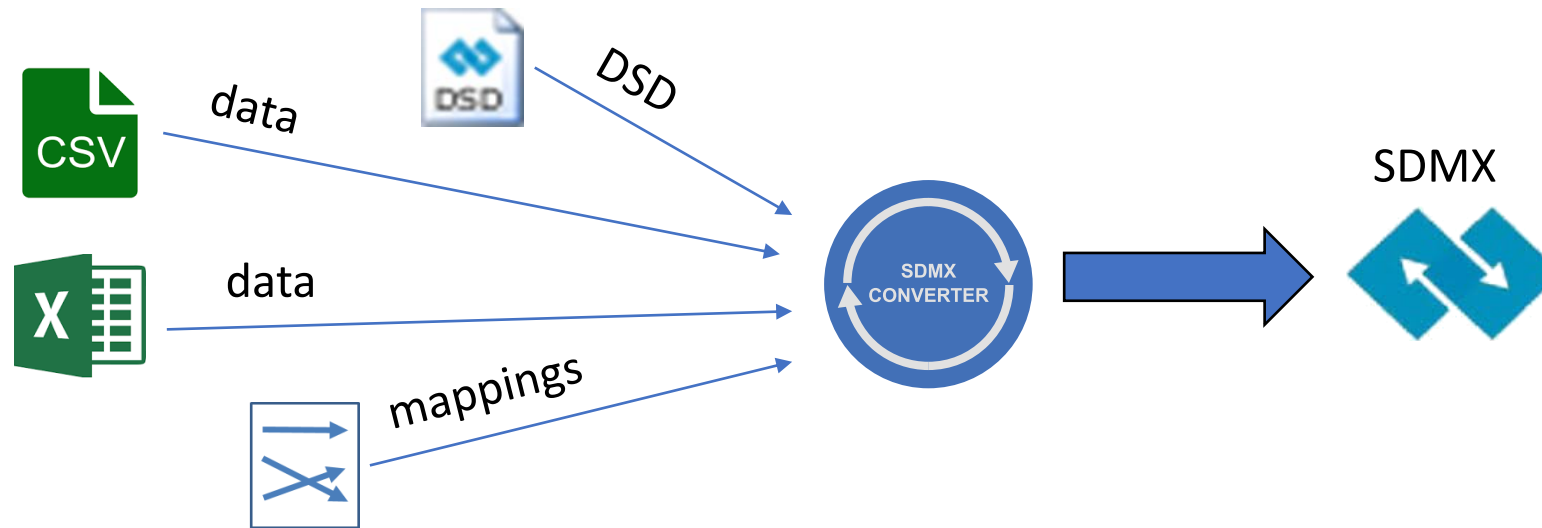
Department of Economic and Social Affairs
Statistics

Scenarios for Data Exchange and Dissemination

SDMX Tools Overview

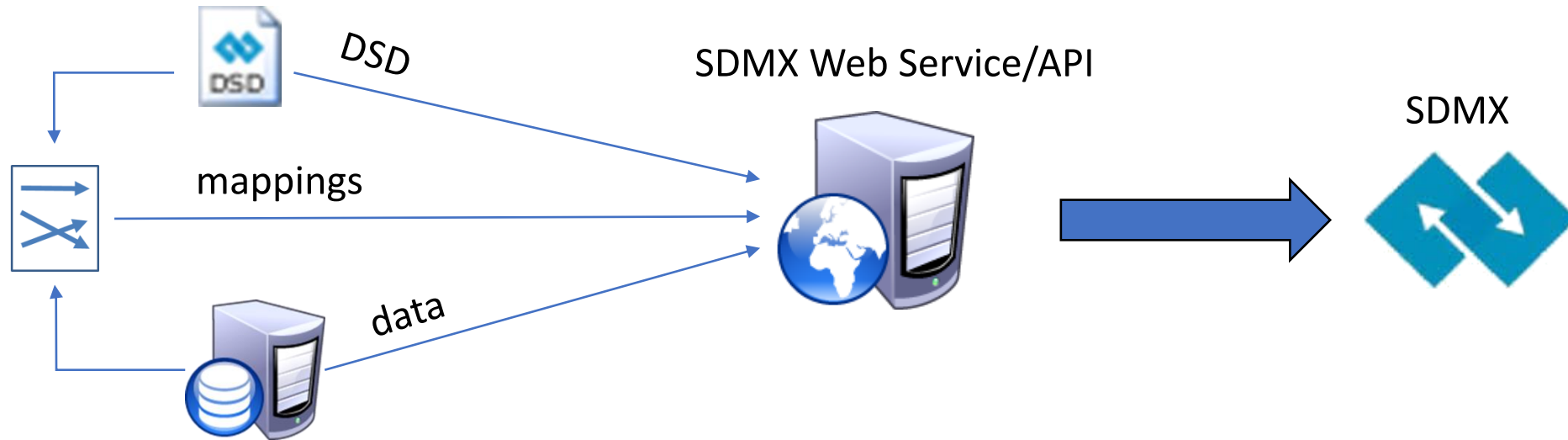
- A large number of SDMX-related tools that implement the technical specifications have been developed by different organizations.
- Some but far from all include:
 - Structure maintenance
 - [DSD Constructor](#) (ILO), [Matrix Generator](#) (OECD), [Fusion Metadata Registry](#) (Metadata Technology)
 - Data mapping and preparation
 - [SDMX Converter](#) (Eurostat), [SMART](#) (ILO), [SDMX Reference Infrastructure](#) (Eurostat) , [Fusion Registry](#) (Metadata Technology, subscription based)
 - Data, metadata, and structure dissemination
 - [.Stat](#) (OECD), [SDMX Reference Infrastructure](#) (Eurostat), [Fusion Registry](#) (Metadata Technology, subscription based)
- The tools can support various scenarios: from very limited infrastructure to fully developed information systems to SDMX-native data warehouse

Scenario: no database to SDMX



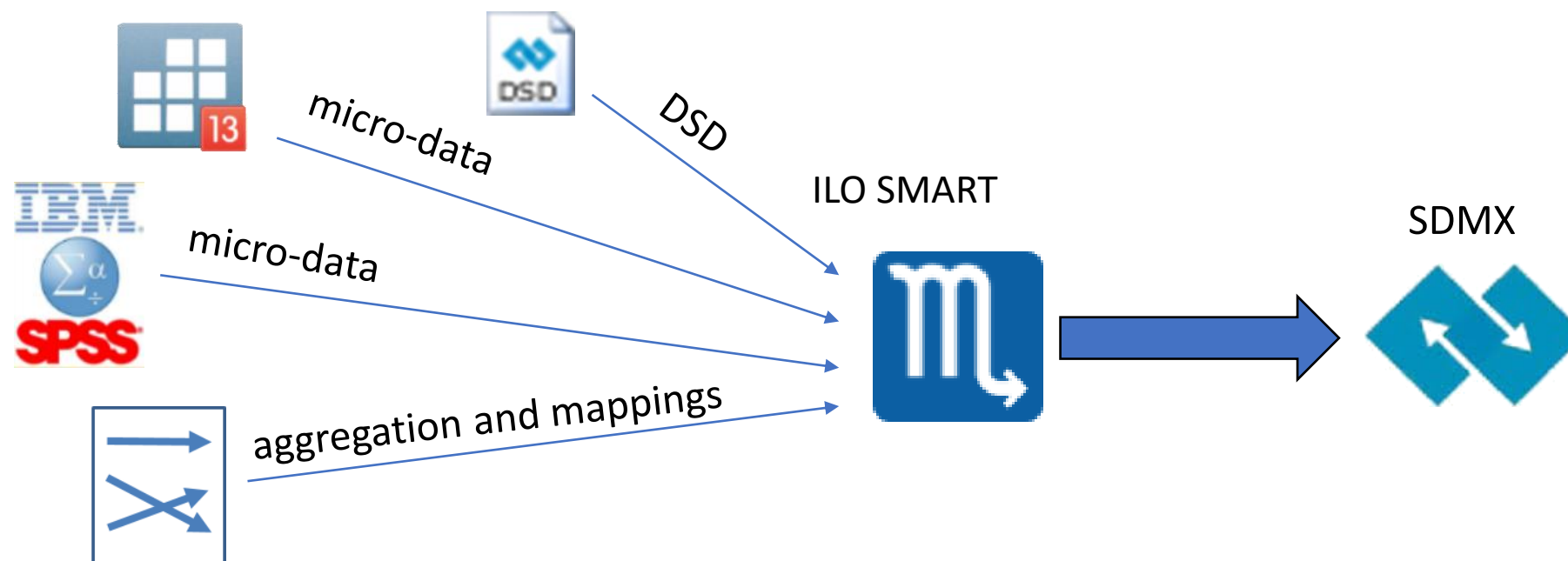
- Map data files to the DSD
- Once mapped, use a tool such as SDMX Converter to transform the data to SDMX files
- No software development!
- Most effort goes to mapping data files to the DSD
 - Can vary from very simple to very complex
- Can be used with Eurostat's SDMX Converter, ILO SMART, and other tools.

Scenario: database to SDMX



- Use software such as SDMX Reference Infrastructure to map the database to the DSD
- Once mapped, data is available at the SDMX API
- No software development!
- Most effort goes to mapping the database to the DSD

Scenario: micro-data to SDMX



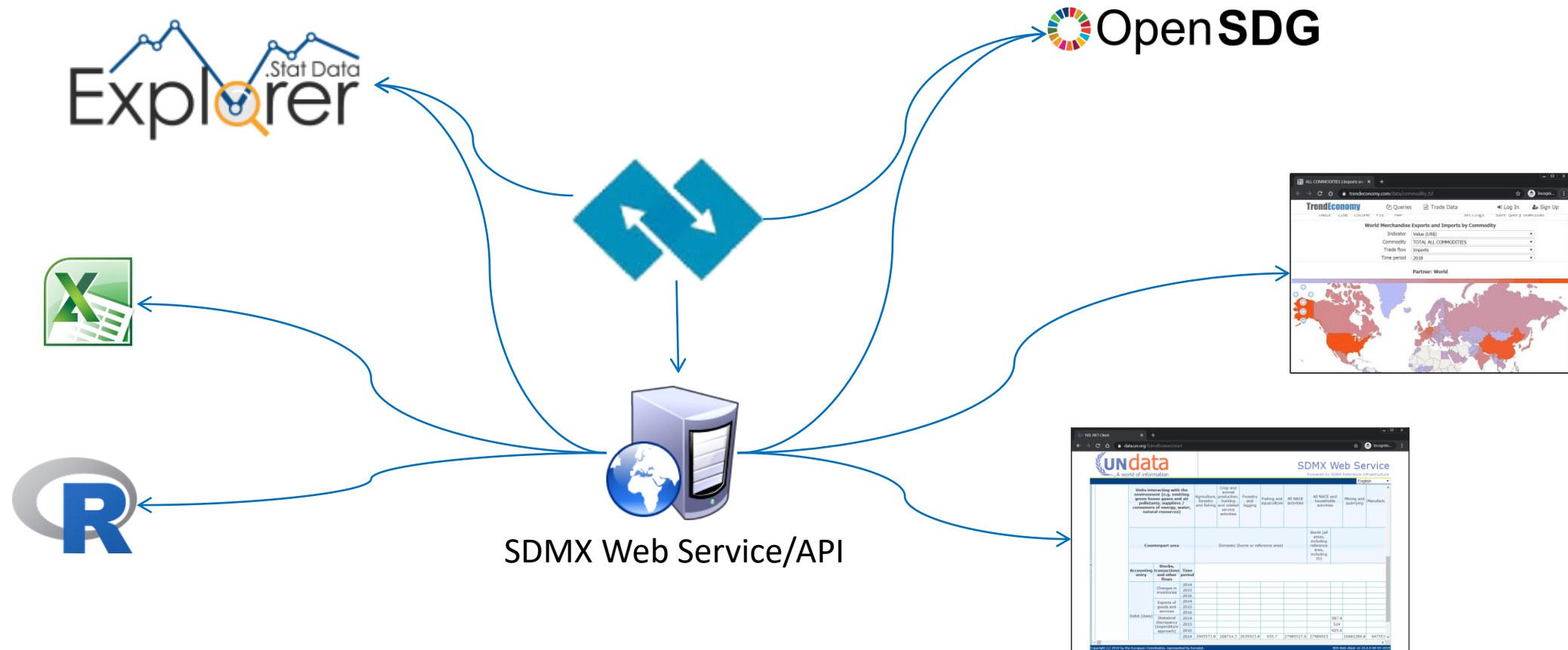
- The ILO SMART tool enables the user to define aggregation operations on micro-data sets, map the aggregates to codes and concepts of a DSD, and convert the data to SDMX
- No software development
- Most effort goes to defining aggregation and mapping

Scenario: SDMX to database

- In most scenarios, existing data is mapped to a DSD and converted to SDMX.
- Increasingly often, however, the data is already in SDMX, and tools are used to automatically create a dissemination database based on the DSD, load the data, and have it published.
- **.Stat Data Lifecycle Manager** (part of the .Stat suite), **ISTAT Data Manager** (part of the ISTAT Toolkit), and **Fusion Registry Enterprise Edition** are some of the tools that implement this paradigm.

What then?

- Once converted to SDMX, a variety of platforms can be used to disseminate and visualize the data



For further information

- SDMX Web site: <http://sdmx.org>
- SDMX tools: https://sdmx.org/?page_id=4500
- SDMX Global Registry: <http://registry.sdmx.org>
- Eurostat's SDMX InfoSpace: <https://ec.europa.eu/eurostat/web/sdmx-infospace>

THANK YOU!