SDMX in Data Collection, Data Dissemination and Data Modelling presented by Gyorgy Gyomai
What is SDMX?

**Standard/initiative for exchange and dissemination of statistical data and metadata**

- **Sponsored** by 7 international organisations (BIS, ECB, Eurostat, IMF, OECD, UNSD, Worldbank)
- ISO standard (since 2005, version 2.1 since 2013)
- Has a **permanent governance structure** with a statistical and a technical working group and ownership group(s)
- It is made up of an **information model**, its **XML, JSON and EDI implementation**, **web-service** and **registry definitions** and an ever growing set of **guidelines**
Why SDMX?

– Internationally agreed structures and code-sets for major statistical domains, which means that content will be widely understood without further co-ordination

– Readily available tools, allowing a quick-start (registries, web-services, converters, a growing number of CSPA-tools)

– Easy (structural) validation

– Open-readiness as a potential by-product
Global DSDs and other artefacts

• Domains completed - hosted in the global registry:
  – National Accounts + Government Finance Statistics
  – Balance of Payments + Foreign Direct Investment

• Work in progress:
  – International merchandise trade statistics
  – Education
  – Labour
  – Prices

• Some other initiatives also in progress or planned

• One global multi-domain DSD exercise for Sustainable Development Goals (SDG)
A few SDMX artefacts

**Concept Scheme** of a Statistical Domain
  e.g. National Accounts

- REF_AREA: Reference Area (e.g. country)
- TIME_PERIOD: Time Period
- ...
- ACCOUNTING_ENTRY: Accounting Entry
- EXPENDITURE: Expenditure by Functions of Gov.

**DSD**: NA_MAIN

- CL_AREA
- ...
- CL_ACCOUNT_ENTRY
- CL_COFOG
Guidelines for modelling a statistical domain in SDMX

- A step-by-step guide to determine the optimal number of DSDs to fully cover concepts in a statistical domain and conveniently fit to existing/envisaged data-exchanges
- It complements the content oriented guidelines and generic guidelines on designing DSDs and cross-domain code-lists

Benefits
- Speeds up/focuses the negotiation process between organisations planning data exchanges
- It can serve as a reference to optimise the design of datasets in data-warehouses
Project management checklist (clickable)