Use of the SDMX Information Model to Build Transversal IT Platforms

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A structured set of technologies supporting the aspects defined by an architecture for the whole enterprise.
Security Architecture

Business Architecture

Processes

Applications Architecture

Information Systems

Data Architecture

Databases and Repositories

Technological Architecture

Common Software Services

Communications and Computing Infrastructure
Capacity to share and make use of statistical information among different parties or electronic systems without distortions of its meaning, not needing to communicate to get additional specifications or make ad-hoc adjustments for each specific case.

Implies achieving minimum compliance regarding the **semantical**, **structural**, **syntactical**, and **technical** aspects of the statistical data and metadata.
A standardised object model for modelling statistical domains centring on the structure of their data and metadata sets, the coding schemes used for classification, and the rules for controlling the exchange of data and metadata between organisations. This document provides a UML specification with a supporting narrative.
SDMX Artefacts as statistical Interoperability Building Blocks
SDMX Artefacts in the Statistics Information Lifecycle for the Construction of IT Transversal Platforms

Provision Agreements

Data and Metadata Flows, Constraints

SDMX Tools, Category Schemes, Organisation Schemes, Reporting Taxonomies

1. Specify Needs
2. Design
3. Build
4. Collect
5. Process
6. Analyse
7. Disseminate
8. Evaluate

Concept Schemes, DSD, MSD, CodeLists
SDMX APIs
SDMX Structure and Source Maps, Transformation Schemes

Strong remark: The ideas and patterns behind the SDMX Information Model are relevant for instrumenting the transversal platforms for internal uses, not the formats.
First Stage

Concept-Driven Information Systems Platform

Data Transversal Platform

Applications Transversal Platform

- Information Production Services
- Information Dissemination Services
- PTracking
- Data Interoperability Services
- Metadata Management
- Metadata Integration System

Data Transversal Platform

Consuming Applications

Services Inventory and Registry

External Information Resources

Internal Information Resources

Metadata Integration System

SDMX Information Model Inside

Common API communicate the different modules of the platform
SDMX Information Model contains valuable artefacts that are useful for achieving statistical interoperability

*(interoperability is in SDMX DNA)*

Can be used to support the whole statistical production process

*(tool to improve information production process)*

It can be used in combination with other standards and models to build enterprise-wide platforms

*(a relevant component of the statistics standards and models ecosystem)*

Finally: Don’t think that the SDMX concept is limited to its technological components: REST, XML, JSON, CSV, and so on...

*(the concept of SDMX goes beyond the formats)*
Thank You

Questions

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