Role of SDMX in a Single Metadata Management Architecture

SDMX Expert Group
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SDMX in a Metadata Management Architecture

1. Why metadata?  
   Metadata layers

2. SDMX Business Cases

3. Business Architecture Blueprint

4. Conclusions and Outlook
Why Metadata: Data Integration challenges

Methodology
- How is data defined, created, calculated
- What is the business process

Semantics
- How is data structured, coded, linked
- What is the quality, access, governance process

Data
- How is data stored
- What is the technical process
Semantics: Structural Metadata Management Layers

**What?**
- concepts, code lists, structures
- REF_AREA, CL_AREA (AT=Austria), National Accounts DSD

**Who?**
- people taking part in design
- Reference standards / coding team
- Business analysts, subject matter experts

**Where?**
- structural metadata repository
- Global / shared / local registries

**How?**
- information model, web service API
- Machine to machine communication, IT services (e.g. validation)

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**Business View**
- artefacts
- guidelines
- registry spec

**IT View**
- REST API, open source tools

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Official Statistics Value Chains

Domain 1

Domain 2

Our special domain

Domain X

Domain Y

Observe Collect Validate Process Report Disseminate

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National Organisation: SDMX for reporting

Domain 1

Domain 2

Our special domain

Domain X

Domain Y

Observe  Collect  Validate  Process  Report  Disseminate
International Organisation: SDMX for collection

Domain 1

Domain 2

Our special domain

Domain X

Domain Y

Observe Collect Validate Process Report Disseminate

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Business Architecture Blueprint

- Minimise value chain silos
- Maximise standardised data management
- Single metadata repo for complete data life cycle
- Unified user experience
Single Metadata: standardisation by function

Step 0
Strategic Vision

Step 1
Central Registry

Step 2, 3, 4
Expand as needed
→ Business value
→ Tools cooperation

Step n
Seamless integration
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4. SDMX is there for you
   → create your architecture blueprint
   → choose where SDMX helps you most