Role of SDMX in a Single Metadata Management Architecture

#sdmx2021

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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)*

artefacts

Business View

guidelines

registry spec

IT View

REST API, open source tools

Official Statistics Value Chains

Domain 1

Domain 2

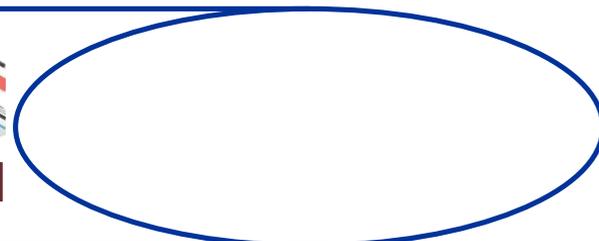Our special domain

Observe   Collect   Validate   Process   Report   Disseminate

Domain X

Domain Y

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National Organisation: SDMX for reporting

Domain 1

Domain 2

Our special domain

Observe Collect Validate Process Report Disseminate

Domain X

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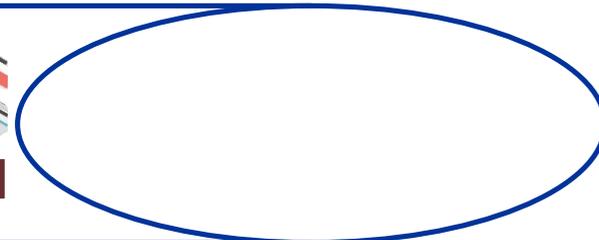
International Organisation: SDMX for collection

Domain 1

Domain 2

Our special domain

Observe   Collect   Validate   Process   Report   Disseminate
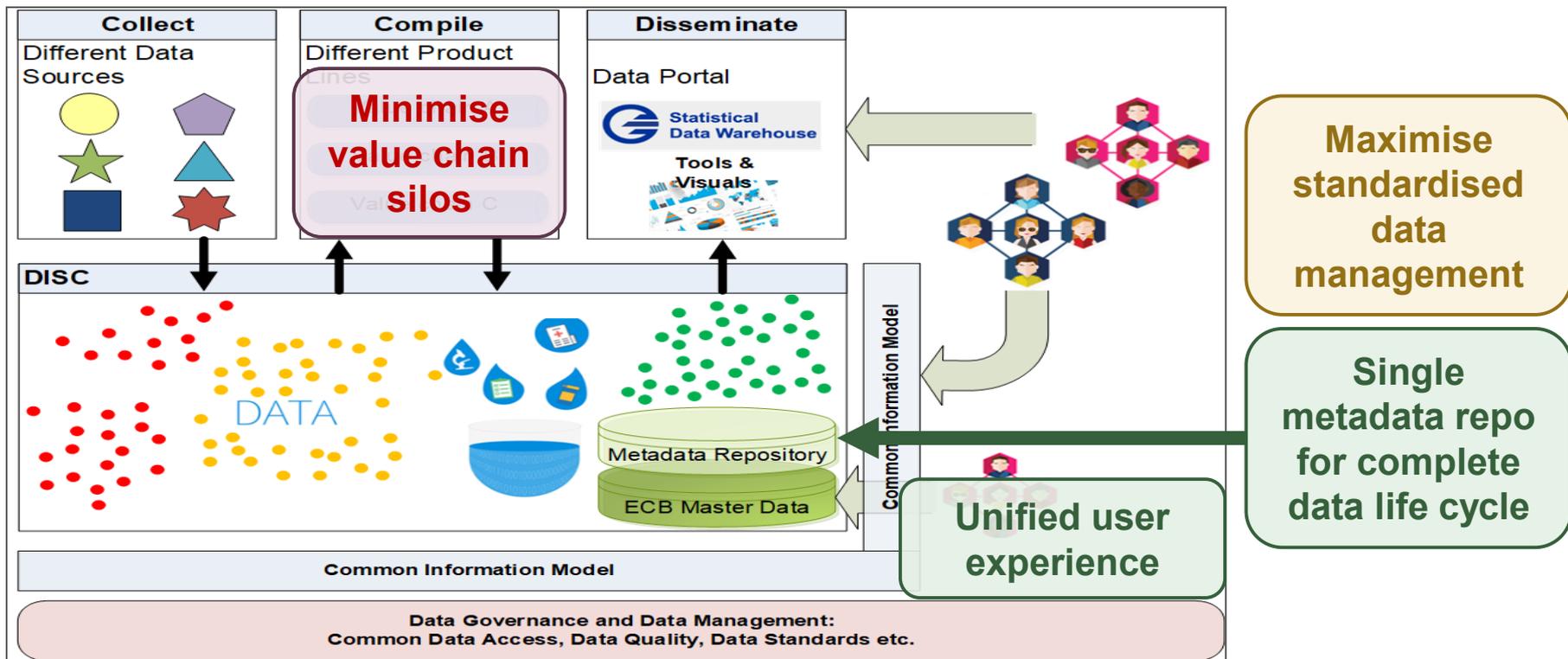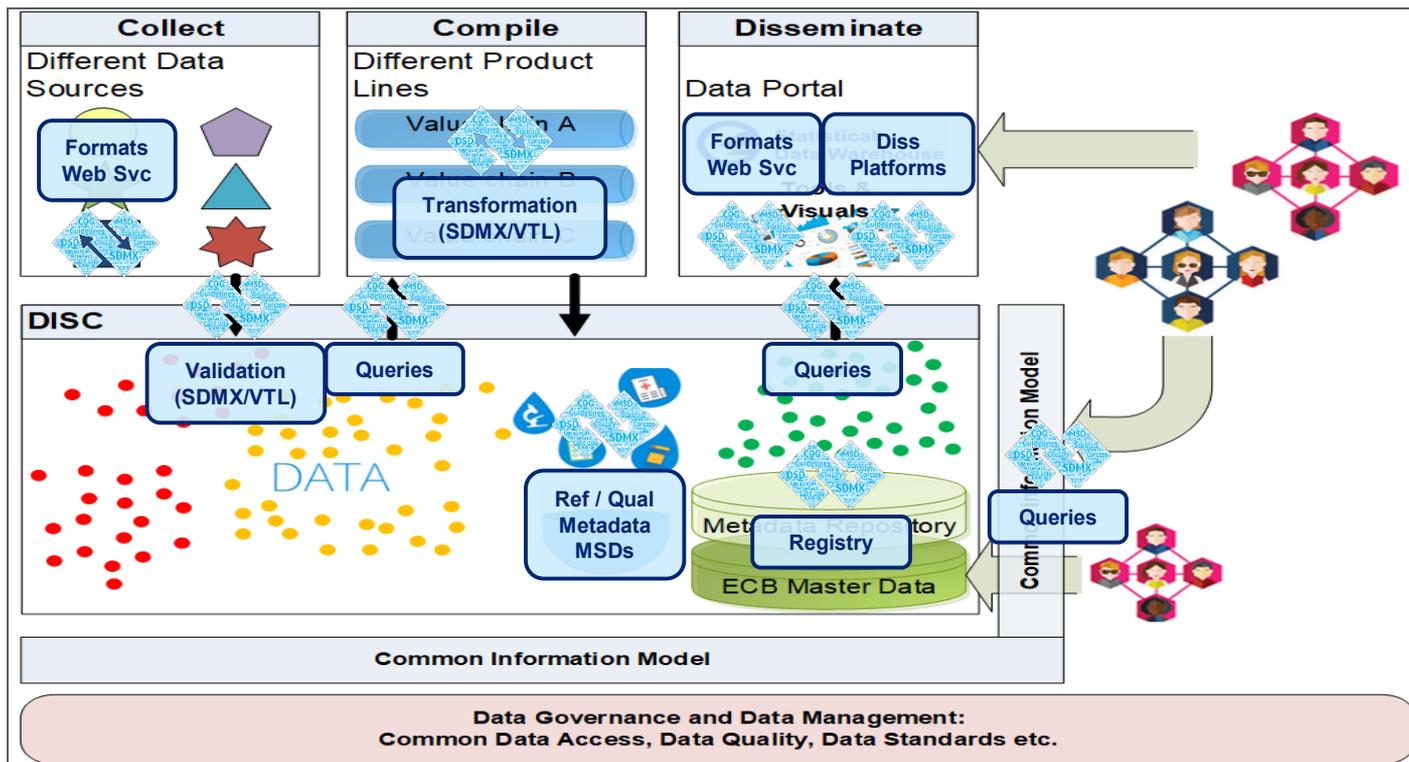
Domain X

Domain Y

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Business Architecture Blueprint

Single Metadata: standardisation by function

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4 **SDMX is there for you**
→ **create your architecture blueprint**
→ **choose where SDMX helps you most**