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SDMX Oriented Dissemination System: Implementation Case Study at the Central Bank of Malta

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Agenda

Introduction

Current Dissemination Practices

SDMX Implementation

Migration

Tools

Study Case

Conclusion and Way Forward



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Introduction

- The Central Bank of Malta collects and disseminates a wide range of data and statistics.
- These include monetary, banking, financial markets, financial stability, and payment systems data.
- Compliance with European (ECB) and international standards (IMF SDDS) is essential.
- Using SDMX Information Model for transmission of data
- CBM has its own information model for collection, processing and compiling data
- Conversion is needed and done in a separate system for dissemination



Current Dissemination Practices

Approaches	SDMX Oriented
Central Bank of Malta Web Site: <ul style="list-style-type: none">• Static Excel Files• Links to ECB SDWH to Dynamic Queries	Partially Yes
Data Transmission to ECB via EXDI – Data Transmission to IMF SSDS+ via Website	Yes
Data Sharing with National Authorities with SFTP	No



SDMX Implementation - Migration

Migration Plan

- ❖ Business Needs (Aggregated/Non-Aggregated Data, CBM & National Authorities)
- ❖ Matching current information model and SDMX model
- ❖ Direct implementation of SDMX Oriented dataflows (ECB, IMF)
- ❖ Conversion of other datasets and data dictionaries

Migration Steps

- ❖ Conversion of current data dictionaries to SDMX
 - ❖ Elements to Codelists
 - ❖ Structure Items to Data Structure Definitions
 - ❖ Time, Classification, Measures and Attributes
 - ❖ Categorisation and Data Flows
- ❖ Using R as a conversion system



SDMX Implementation – Tools

Option 1

- Open Source
- Linux Platform
- Full Community Support
- Complex authentication
- Visualisation and customized needed dashboards

Option 2

- Open Source
- Windows Platform
- Less community support
- GUI for Metadata Management
- Simple authentication
- Visualisation packet (Dashboard and graphs)



SDMX Implementation – Study Case

Scenarios

Datasets

- Interest Rate Statistics (Agg)
- Interest Rate Statistics (Non-Agg)

Dimensions

Agg: Medium Scale

Non-Agg: Large Scale

Dataflows and DSDs

- Public (Agg)
- CBM Internal Use (Non-Agg)
- National Authorities Hub (Non-Agg)

Dashboards

- Full Agg
- Selected Non-Agg

Codelists

- Common for Agg and Non-Agg



Conclusion and Way Forward

- CBM is planning to investigate Option 2
 - CBM has know-how on Windows environment
 - Meta Management GUI full-fills business needs
 - Dissemination Tool is easy to manage internal and external data dissemination
- Future tests will be conducted with CBM Internal Users and National Authorities



Thanks!



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