

10TH EXPERT GROUP MEETING ON

# Statistical Data and Metadata eXchange

JANUARY 25-28, 2021

## Reference Metadata Exchange

January 25, 2021

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Metadata Technology

# What is Reference Metadata?

2. Methodology	
2.1 Concepts and definitions	<p><b>2.1.1 Concepts and definitions</b></p> <ul style="list-style-type: none"><li>• The 2004 Base has mostly adopted the recommendations, definitions and concepts of the SNA 2008. However, the changes introduced by the SNA 2008 compared to the SNA 1993 were only adopted in cases where the availability of statistical and administrative sources of information allowed it.</li><li>• Definition: GDP measures the market value of the goods and services produced by all resident producer units during the period.</li><li>• The quarterly GDP series measures value added at basic prices for each economic activity.</li></ul>
2.2 Scope	<p><b>2.2.1 Scope</b></p> <ul style="list-style-type: none"><li>• <b>Scope of the data</b><ul style="list-style-type: none"><li>• The quarterly national accounts of Argentina present data at current and constant (2004) prices of value added at basic prices for 16 economic activities, GDP and supply and demand at purchaser prices.</li><li>• The quarterly national accounts of Argentina present data at current and constant (2004) prices of value added at basic prices for 56 economic activities.</li><li>• The national accounts of Argentina present data at current and constant (2004) prices of gross output at basic prices for 56 economic activities for the definitive and provisory years.</li><li>• For the 2004 base year, the Income Generation Account was compiled for the 16 economic activities (<a href="http://www.indec.gob.ar/uploads/informesdeprensa/gib_anual_06_16.pdf">http://www.indec.gob.ar/uploads/informesdeprensa/gib_anual_06_16.pdf</a>) and the Supply and Use table for 271 products and 163 activity branches (<a href="https://www.indec.gob.ar/indec/web/Nivel4-Tema-3-9-114">https://www.indec.gob.ar/indec/web/Nivel4-Tema-3-9-114</a>).</li><li>• Income Generation Account and Labours Inputs, 2016 - II 2020.</li></ul></li></ul> <p><a href="https://www.indec.gob.ar/indec/web/Nivel4-Tema-3-9-49">https://www.indec.gob.ar/indec/web/Nivel4-Tema-3-9-49</a></p> <ul style="list-style-type: none"><li>• National Income and National Saving 2006 – 2019, annual and quarterly, at current prices. <a href="https://www.indec.gob.ar/indec/web/Nivel4-Tema-3-9-47">https://www.indec.gob.ar/indec/web/Nivel4-Tema-3-9-47</a></li><li>• Gross fixed capital formation of the general government sector 2004 - 2019, annual at current prices.</li></ul>

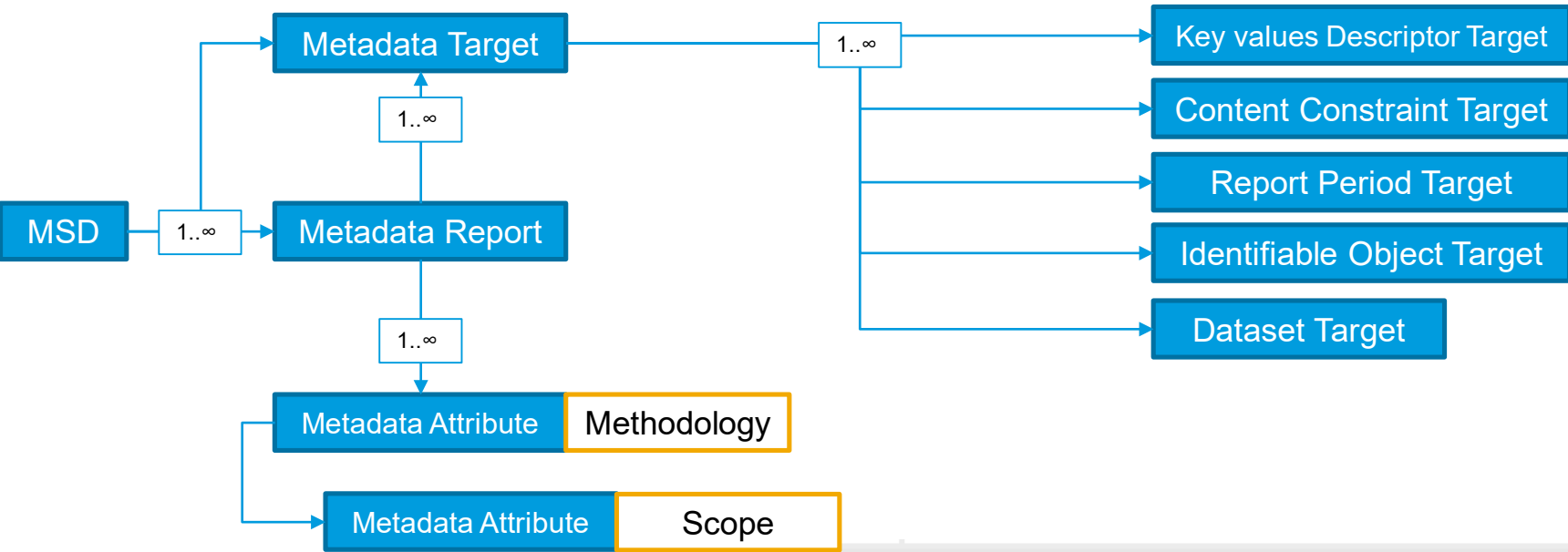
Tends to be textual information  
Information for human consumption  
Information about something in a SDMX system

Structure Metadata (Dataflow)  
Data (One or more Series,  
Observation)

# Types of Reference Metadata

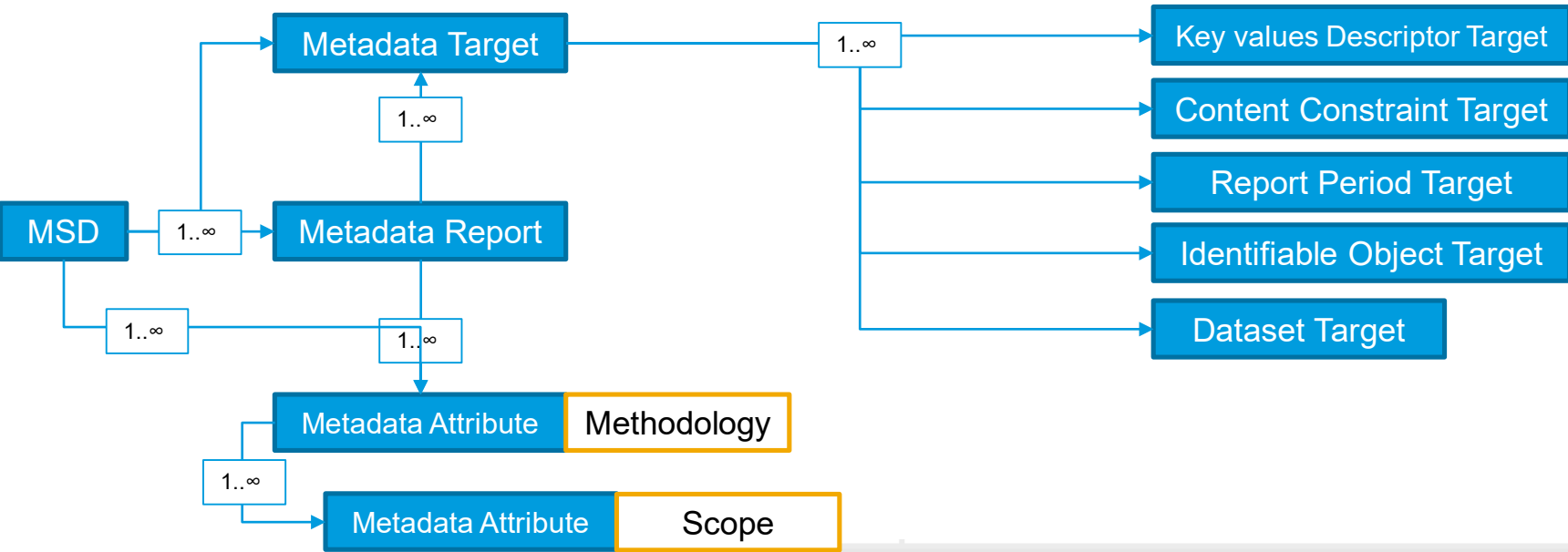
- Metadata that is reported against structures
  - example collection methodology, accuracy, timeliness
- Metadata that travels closely to the Data
  - example footnotes
- Type 1 – Continues to be described by the MSD
- Type 2 – Described in the DSD that also describes the Data

# SDMX v2.1 – MSD Model



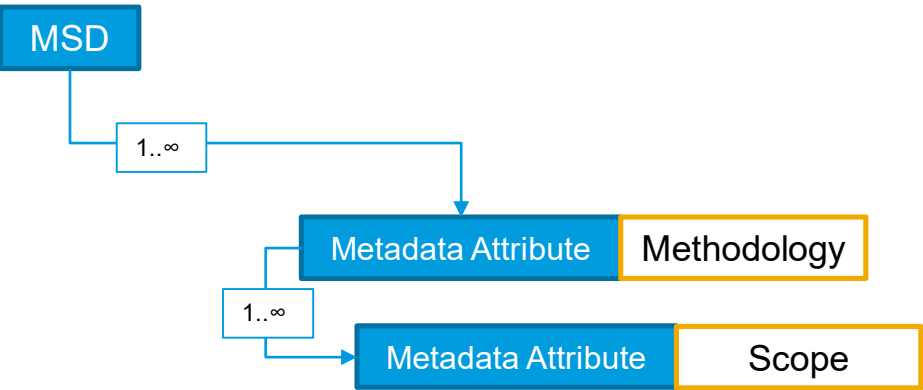
2. Methodology	
2.2 Scope	2.2.1 Scope <ul style="list-style-type: none"> <li>• Scope of the data               <ul style="list-style-type: none"> <li>• The quarterly national accounts of Argentina present data at current and constant (2004) prices of value added at basic prices for 16 economic activities, GDP and supply and demand at</li> </ul> </li> </ul>

# SDMX v3.0 – MSD Model



2. Methodology	
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# SDMX v3.0 – MSD Model

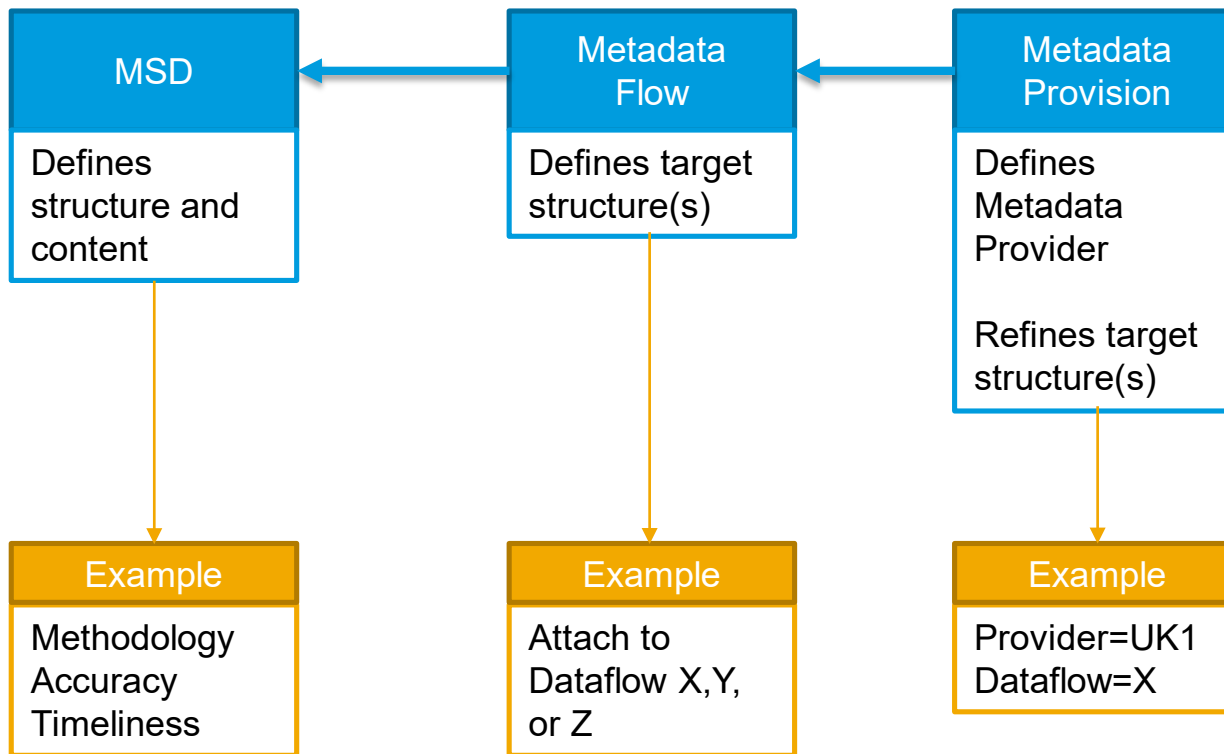


2. Methodology	
2.2 Scope	<p><b>2.2.1 Scope</b></p> <ul style="list-style-type: none"> <li>• <b>Scope of the data</b></li> <li>• The quarterly national accounts of Argentina present data at current and constant (2004) prices of value added at basic prices for 16 economic activities, GDP and supply and demand at</li> </ul>

# Type 1: Metadata Against Structures

- Described with a **Metadata Structure Definition**
- The MSD describes the structure and content of a metadata collection
  - Concepts (e.g. Collection Methodology)
  - Hierarchy of Concepts
  - Cardinality of Concepts
  - Content of Concepts
- The MSD no longer defines allowable targets
- The MSD only describes ONE report structure

# Type 1: Metadata Against Structures

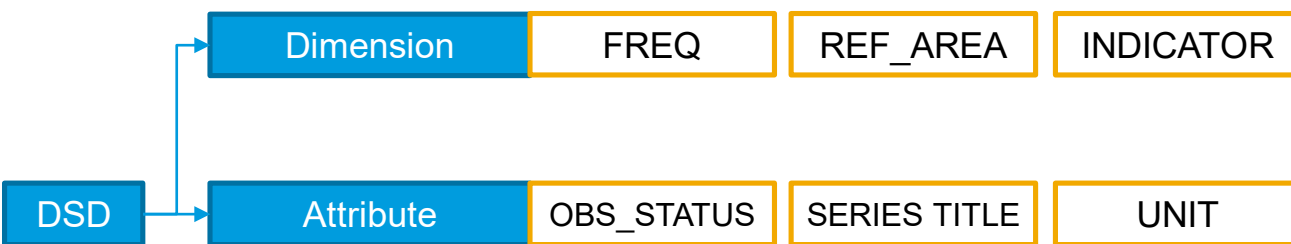




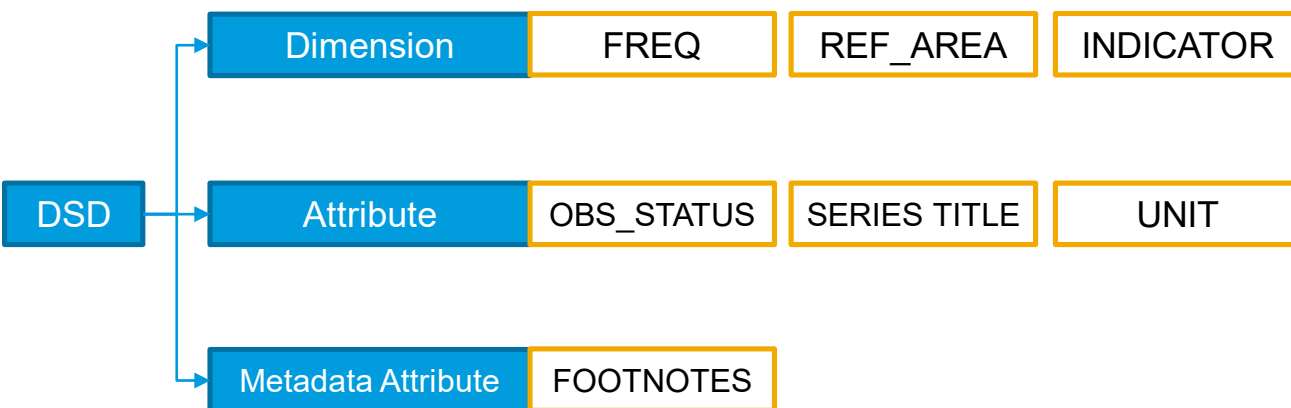
# Type 1: Metadata Against Structures

- Metadata Acts like Structures for Maintenance
- It has an Id, Version, and Owner (Metadata Provider)
- Metadata Provider can view, export, modify, and save their metadata
  
- Think about this type of metadata like one would maintain a Microsoft word document, open, edit, save.
  - The whole document is opened
  - Part of the document is modified
  - The whole document is saved
- It is the Metadata Provider who maintains their documents

# SDMX 2.1 DSD



# SDMX 3.0 DSD



# Type 2: Metadata Against Data

- Described in the **Data Structure Definition**
- Less restrictive Data Attribute
  - A Metadata Attribute is linked to one or more Concepts and can be reported against a combination of any at report time
  - Metadata can be reported and exported with or without the associated data
  - Content can be HTML
  - Content can be multilingual text

# Type 2: Metadata Against Data

- This metadata is maintained like data
- Each reported metadata concept is maintained independently in the context of the dataset