Session Wrap-up: The Added Value of SDMX 3.0

January 27, 2021

Edgardo Greising
Head of Knowledge Management Solutions Unit / ILO
Chair SDMX-TWG
New features in SDMX 3.0

- Semantic versioning
- Improve the exchange of reference metadata
- New features to support microdata
  - Support microdata exchange
  - Multiple measures
  - Multiple values for attributes
  - Simplify DSD Dimensions
- Enhanced artefacts
  - Enhance the constraints artefacts
  - Reorganising constraints
  - Improve mapping by enhancing the Structure Set artefact
  - Referencing of hierarchical codelists
  - Schema attribute attachment at series & group level
New features in SDMX 3.0

- Improved codelists' handling
  - Codelist extension / composition
  - Discriminated union of codelists

- Support for geospatial information

- Enhanced SDMX API
  - Support reference metadata in the Restful API
  - Deprecation of the SOAP API
  - Group all structural metadata queries under a structure resource
  - Support resource management - structures and data
  - Improve clarity and documentation of the API
  - Improving API data queries

- Deprecation of obsolete formats
Once upon a time...

- “Roadmap 2020” approved at the beginning of 2016
- Strategic objectives:
  1. Strengthening the implementation of SDMX;
  2. Making data usage easier via SDMX (especially for policy use);
  3. Using SDMX to modernise statistical processes, as well as continuously improving the standards and IT infrastructure;
  4. Improving communication in general, including a better interaction between international partners
- The implementation of the Roadmap required new features not available in SDMX 2.1
Once upon a time...

- By Q2-2016 “work packages” were defined in the TWG to work on the implementation of these new features, always following the vision in the Roadmap.
- The SWG released/updated a number of Guidelines on best practices in using SDMX, and promoted the development of global DSDs for several statistical domains.
- However, that was not enough to achieve strategic objectives 2. and 3.
  2. Making data usage easier…
  3. Using SDMX to modernise statistical processes…
- After a joint meeting in June 2018, the TWG and SWG proposed to the Secretariat the implementation of a new version of the standard: **SDMX 3.0**
...and here we are now

- Making data usage easier via SDMX
  - Semantic versioning
  - New features to support microdata
  - Support for geospatial information
  - Enhanced SDMX API

- Using SDMX to modernise statistical processes, as well as continuously improving the standards and IT infrastructure
  - Improve the exchange of reference metadata
  - Enhanced artefacts
  - Improved codelists' handling
  - Deprecation of obsolete formats
  - Enhanced SDMX API
Sponsors' preferences

- Semantic versioning
- Reference metadata exchange
- New features to support microdata
- Enhanced artefacts
- Improved codelist handling
- Support for geospatial information
- Enhanced SDMX API
- Deprecation of obsolete formats
Public's preferences

- Semantic versioning
- Reference metadata exchange
- New features to support microdata
- Enhanced artefacts
- Improved codelist handling
- Support for geospatial information
- Enhanced SDMX API
- Deprecation of obsolete formats

Semantic versioning: 70%
Reference metadata exchange: 60%
New features to support microdata: 50%
Enhanced artefacts: 60%
Improved codelist handling: 70%
Support for geospatial information: 60%
Enhanced SDMX API: 70%
Deprecation of obsolete formats: 50%

- Semantic versioning
- Reference metadata exchange
- New features to support microdata
- Enhanced artefacts
- Improved codelist handling
- Support for geospatial information
- Enhanced SDMX API
- Deprecation of obsolete formats

Sponsors / Public
Which of the new features in SDMX 3.0 do you think adds more value?

<table>
<thead>
<tr>
<th>Feature</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semantic Versioning</td>
<td>0%</td>
</tr>
<tr>
<td>Reference Metadata Exchange</td>
<td>0%</td>
</tr>
<tr>
<td>New Features to Support Microdata</td>
<td>0%</td>
</tr>
<tr>
<td>Enhanced Artefacts</td>
<td>0%</td>
</tr>
<tr>
<td>Improved Codelists’ Handling</td>
<td>0%</td>
</tr>
<tr>
<td>Support for Geospatial Information</td>
<td>0%</td>
</tr>
<tr>
<td>Enhanced SDMX API</td>
<td>0%</td>
</tr>
<tr>
<td>Deprecation of Obsolete Formats</td>
<td>0%</td>
</tr>
</tbody>
</table>
Preferences

- Semantic versioning
- Reference metadata exchange
- New features to support microdata
- Enhanced artefacts
- Improved codelists' handling
- Support for geospatial information
- Enhanced SDMX API
- Deprecation of obsolete formats

[Bar chart showing preferences with categories: Sponsors, Public, EGM]