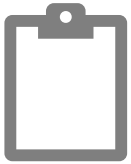




Towards a Full Integration of SDMX in the Data Value Chain – the Present and the Future of SDMX tools

Bilyana Bogdanova and Brian Buffet (BIS)
2023 SDMX Global Conference



| The survey - background



- Building upon a 2016 report on the use of SDMX by central banks by the Irving Fisher Committee (IFC).
- Assess the **state of SDMX adoption** and **usage of SDMX tools**



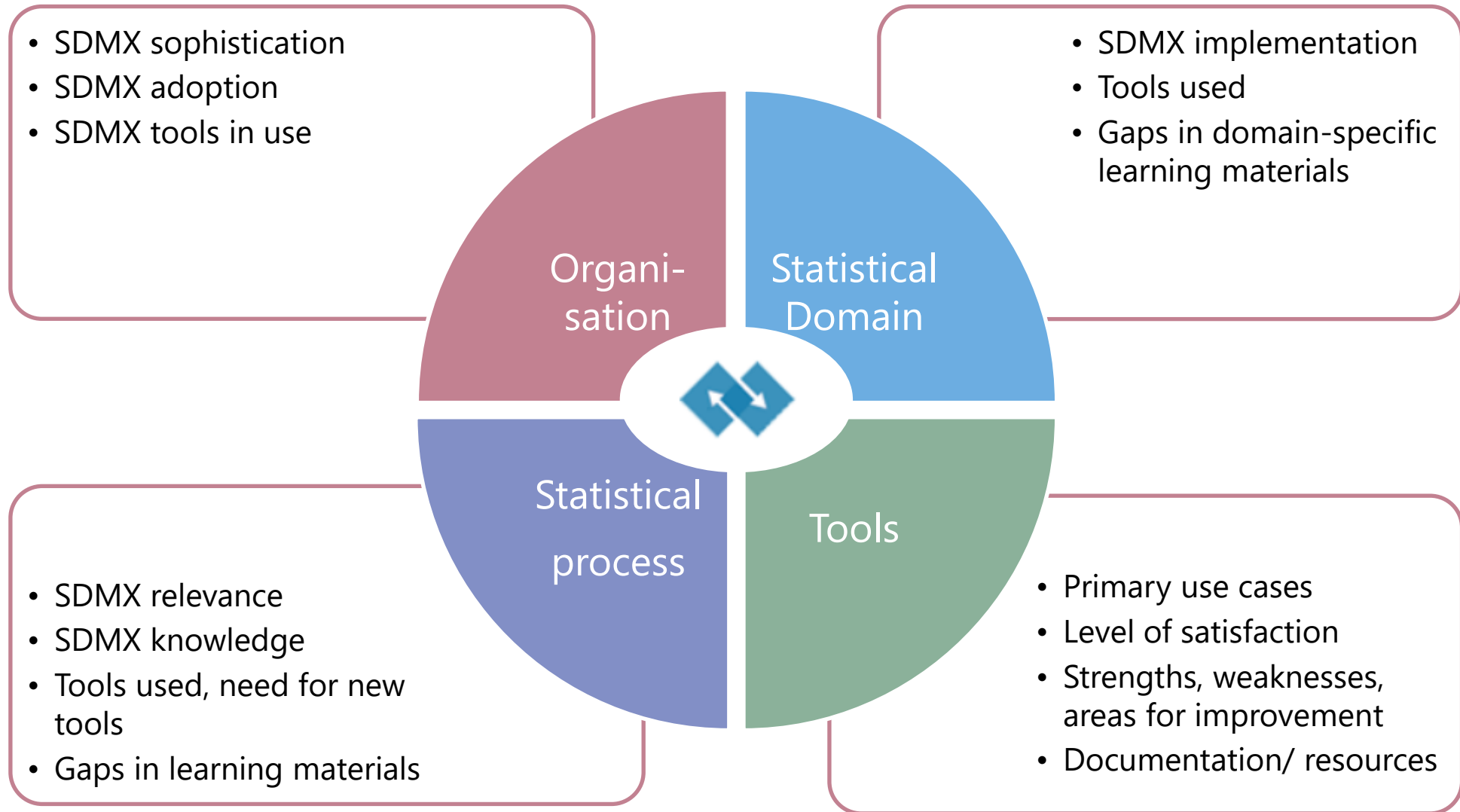
- IFC members – 97 Central Banks.*
- **Unit of analysis:** the Organisation (Central Bank).

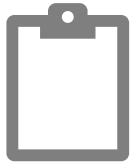


- Questionnaire was developed by a working group (7 organisations)
- Survey ran from March – August 2023



| The survey – 4 focus areas



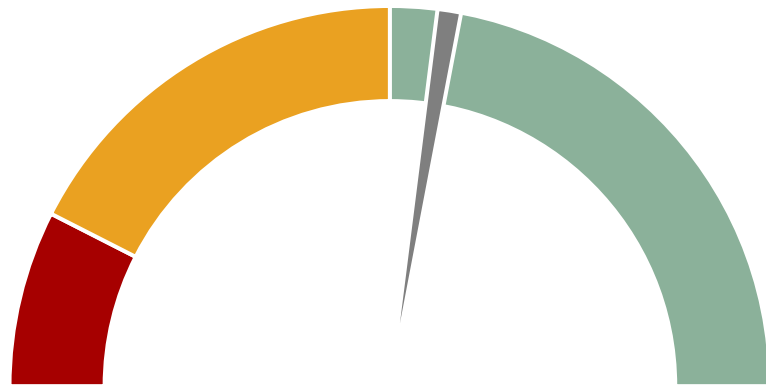


| The survey – key takeaways: the Present

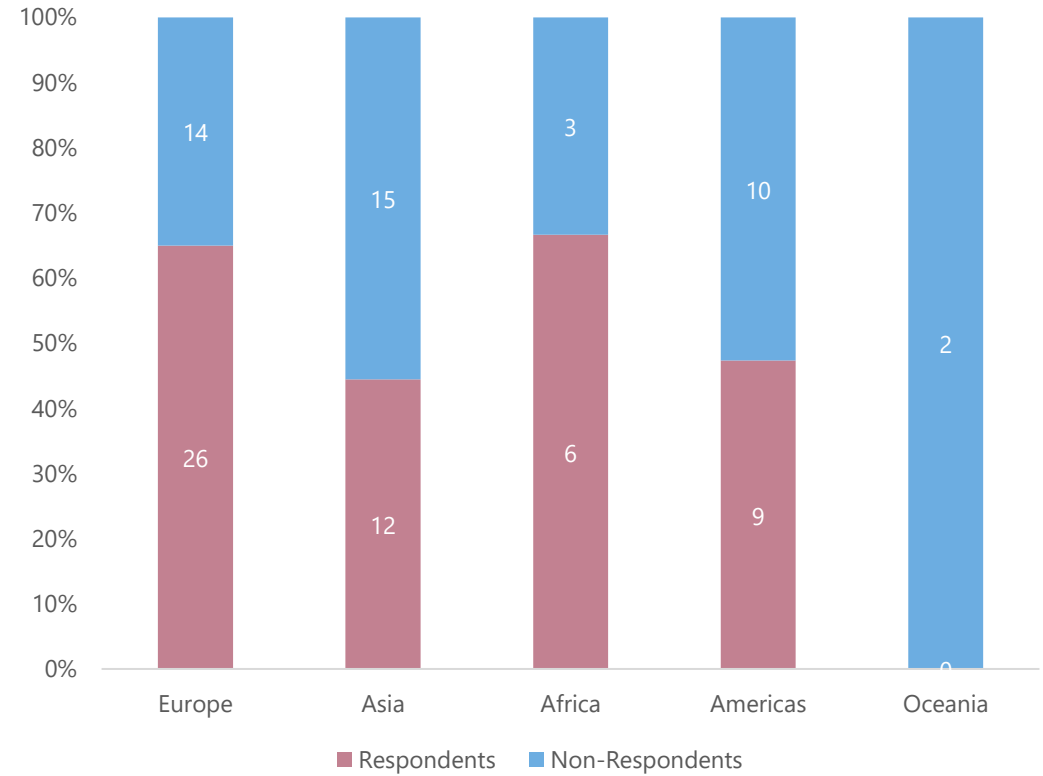
- SDMX adoption and relevance
 - ~**80%** of respondent central banks are **using or implementing SDMX**
 - *Need to adapt internal tools* and *Lack of resource* are **key barriers to SDMX adoption**
 - **SDMX 2.1** is the predominantly used version of the standard
 - Along the **statistical value chain**, SDMX **most relevant** for *Reporting to other institutions* and *Data Production*
- SDMX tools
 - Overall **satisfaction** is **good**
 - **Open-source tools and libraries** are the **most used**.
 - There is a **vast range of tools in use, but** many by only a few respondents
 - The **main barrier** to using **open-source tools** is **cyber security**



| The survey – response rate

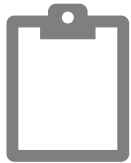


Very good response rate = 54%

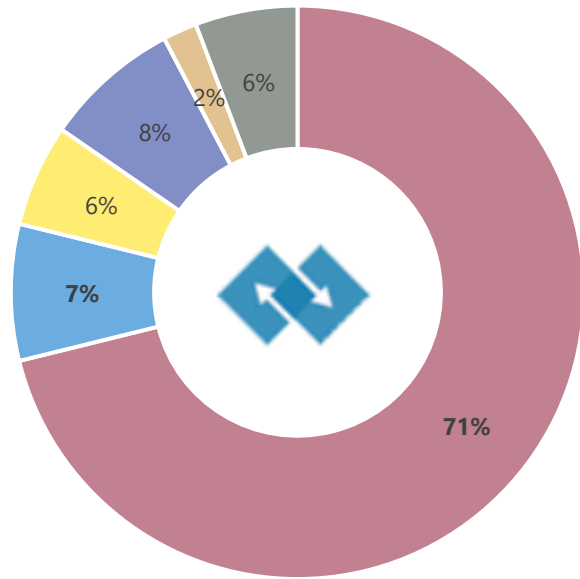


Initial Findings

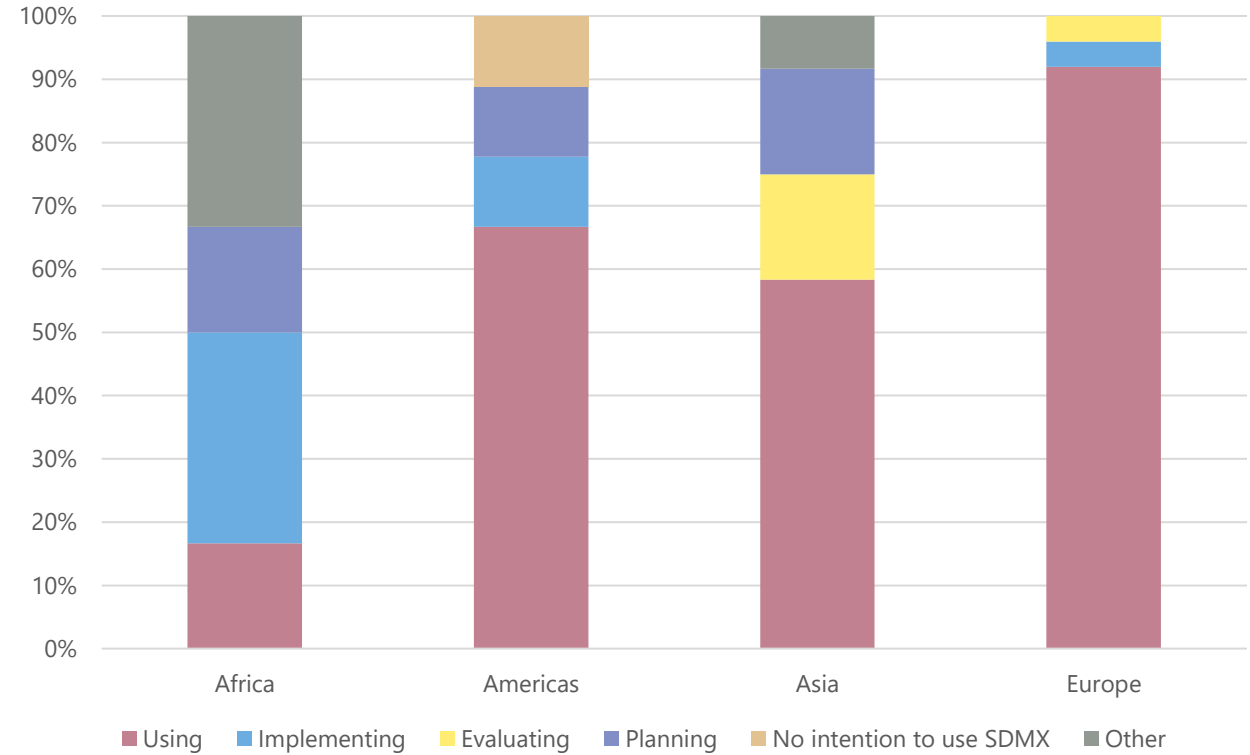
Preliminary results of the 2023 IFC survey



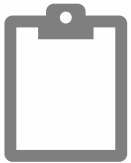
| The survey – SDMX usage



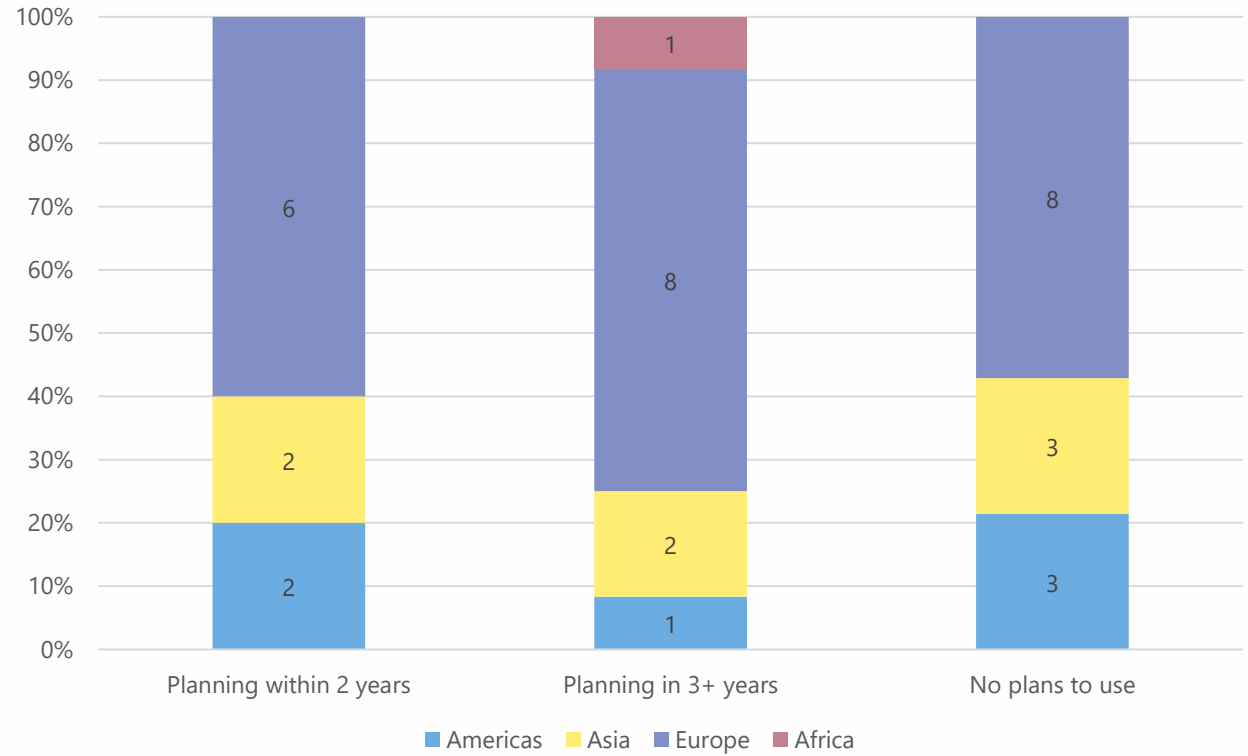
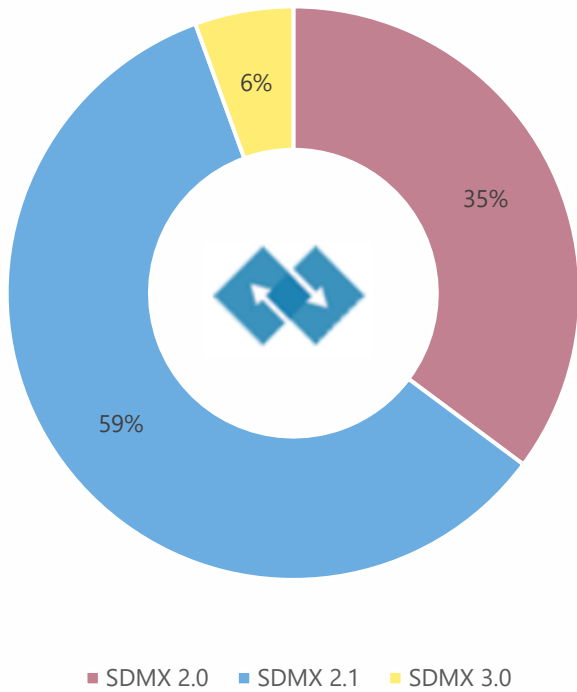
■ Using ■ Implementing ■ Evaluating ■ Planning ■ No intention to use SDMX ■ Other

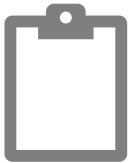


■ Using ■ Implementing ■ Evaluating ■ Planning ■ No intention to use SDMX ■ Other

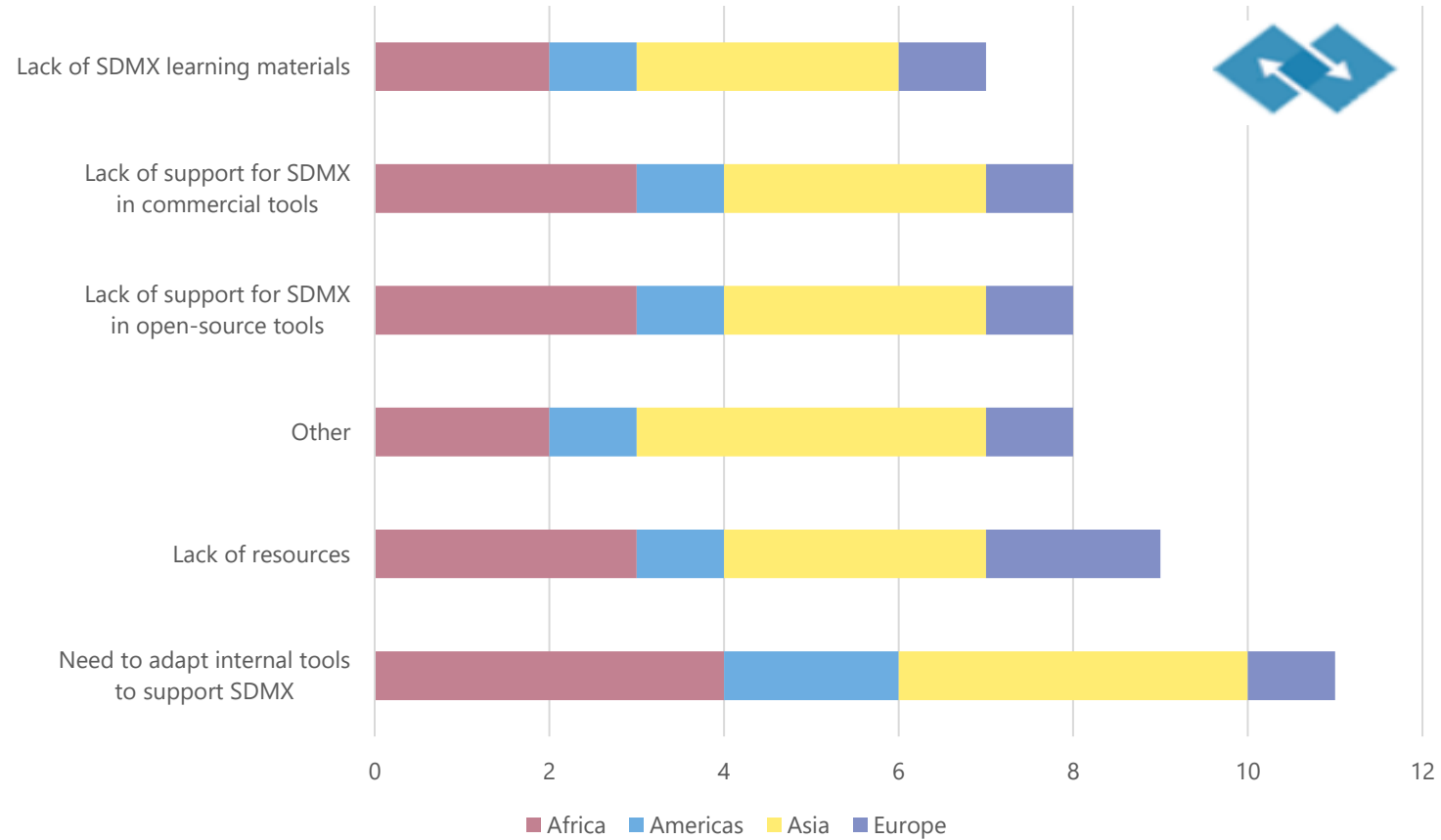


| The survey – SDMX versions and SDMX 3.0 migration plans





| The survey – Not using SDMX. Why?





| The survey – Barriers to SDMX 3.0 adoption



Lack of support for SDMX 3.0 in open-source tools



Lack of SDMX 3.0 learning materials

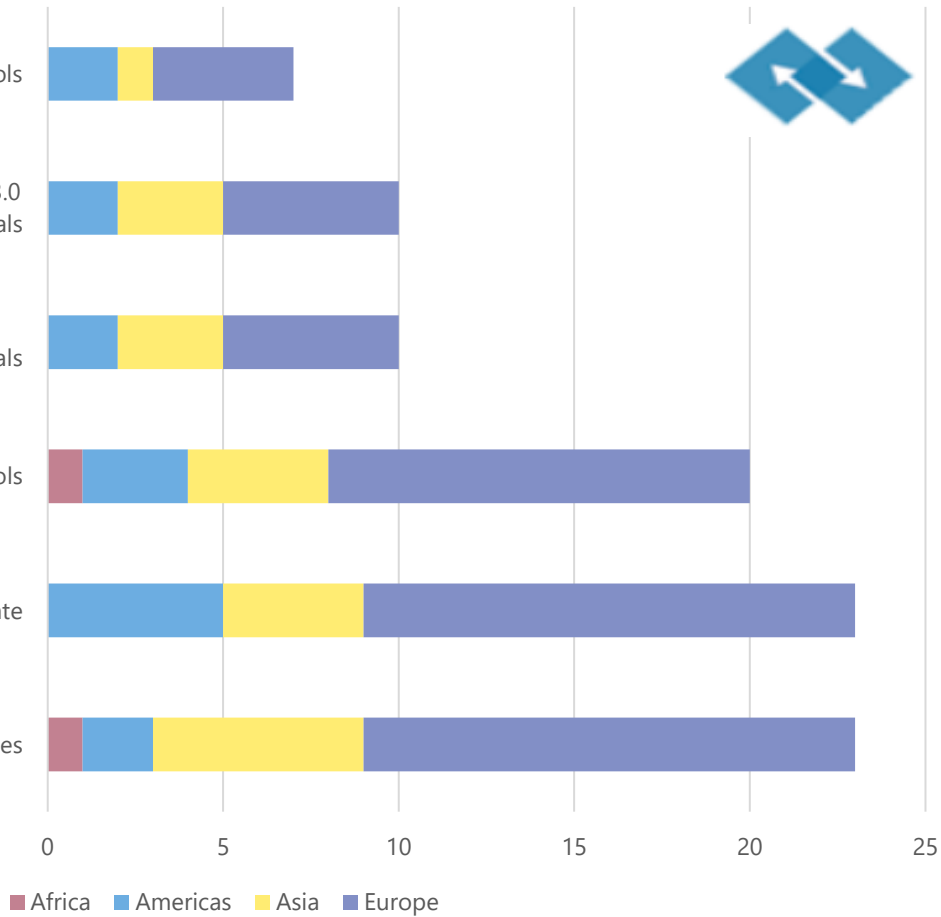
Lack of SDMX 3.0 implementation reference materials



Need to adapt internal tools

No business case to migrate











Lack of resources





| The survey – SDMX Relevance vs Knowledge

Relevance











					
	20	20	7	13	1
	3	34	22	7	
		8	18	3	3
		4	3	6	3
	2		9	6	14

Knowledge



| The survey – **SDMX Relevance** vs Knowledge

Relevance











					
	20	20	7	13	1
	3	34	22	7	
		8	18	3	3
		4	3	6	3
	2		9	6	14

Knowledge

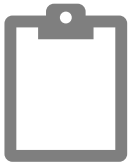


| The survey – SDMX Relevance vs Knowledge

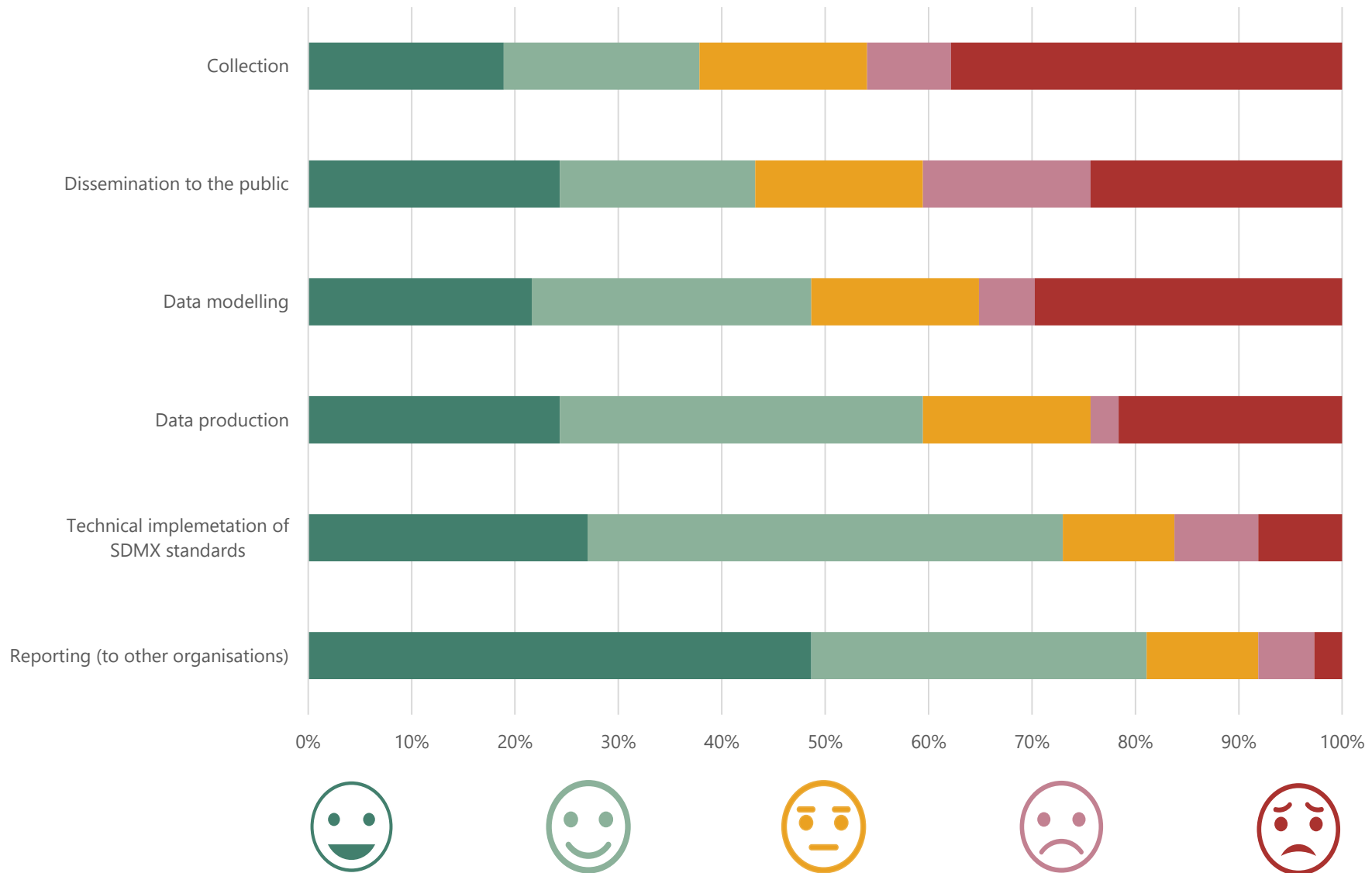
Relevance

						
	20	20	7	13	1	
	3	34	22	7	Knowledge gap	
		8	18	3		
		4	3	6	3	
	2		9	6	14	

Knowledge

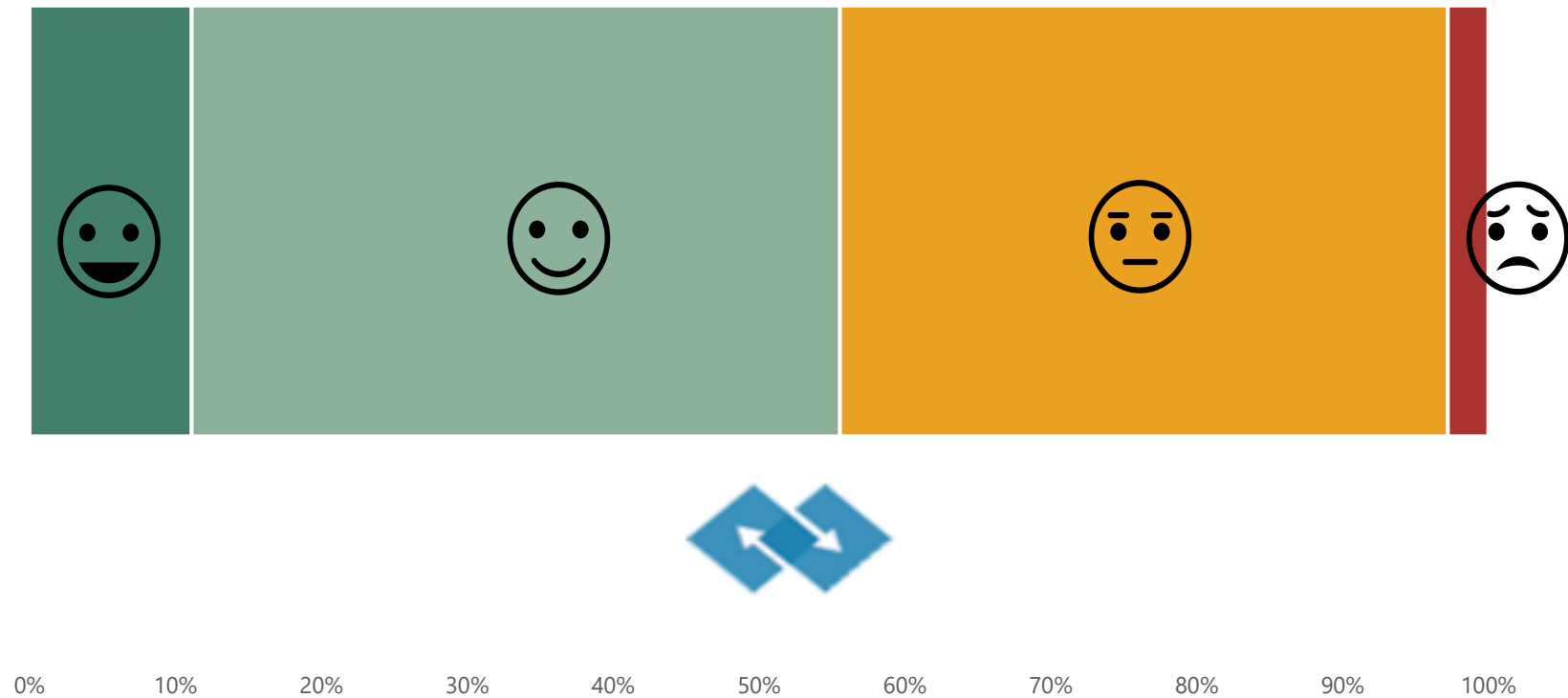


| The survey – SDMX relevance in the statistical value chain



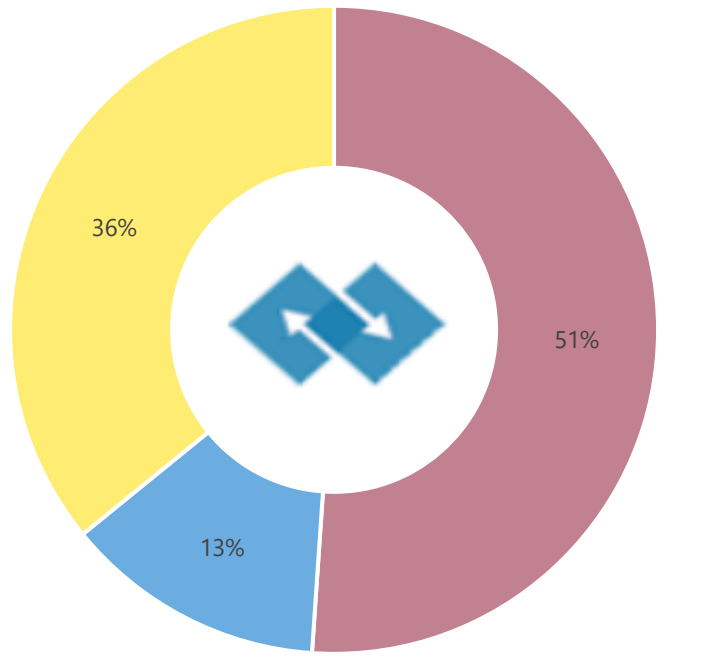


| The survey – Overall satisfaction with SDMX tools

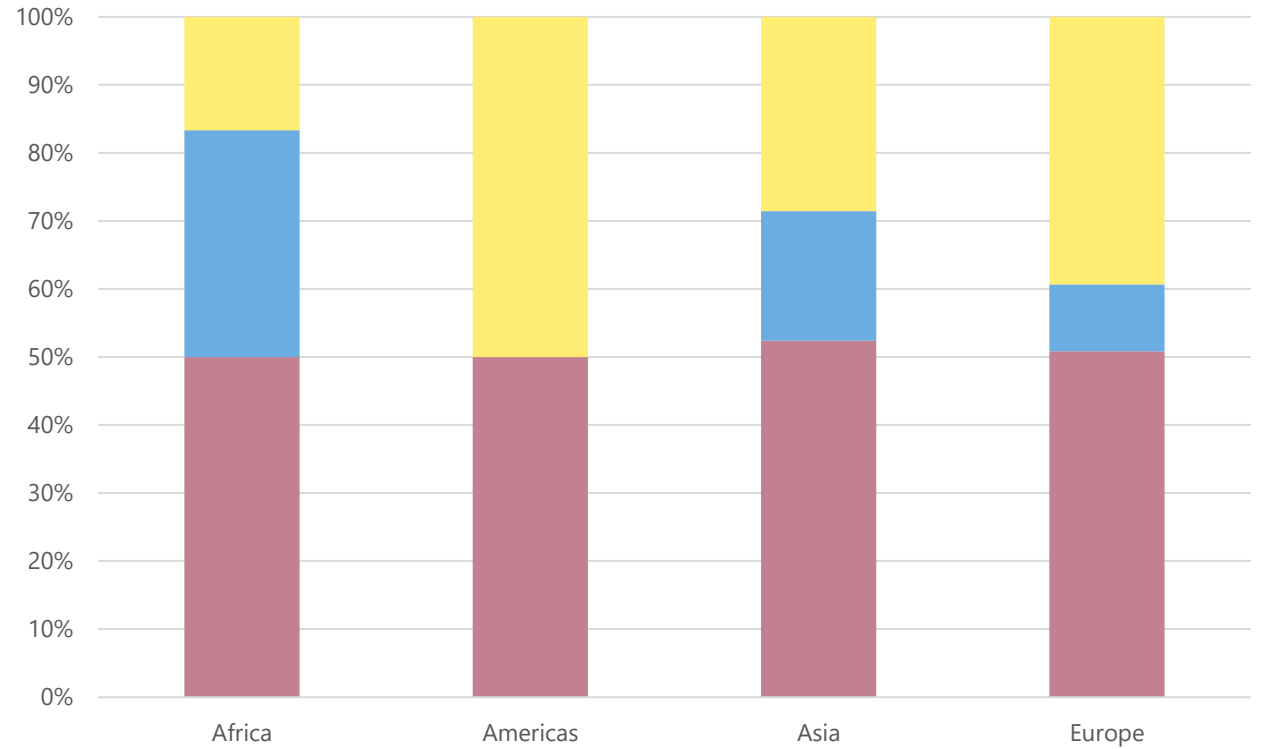




| The survey – SDMX tools, by type



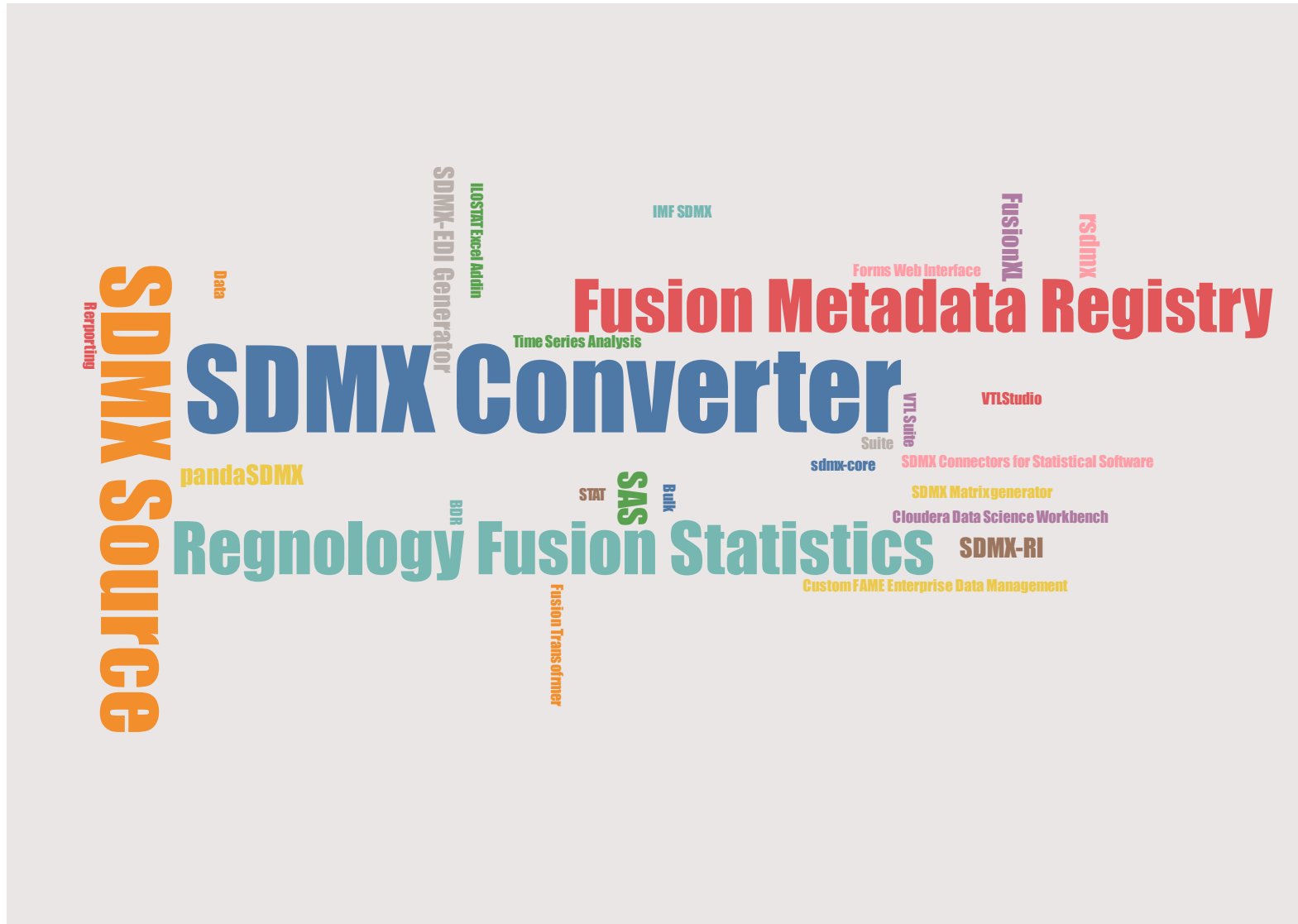
■ Open-source tools or open source library
 ■ Commercial tool
 ■ Inhouse or other

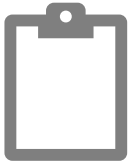


■ Open-source tools or open source library
 ■ Commercial tool
 ■ Inhouse or other

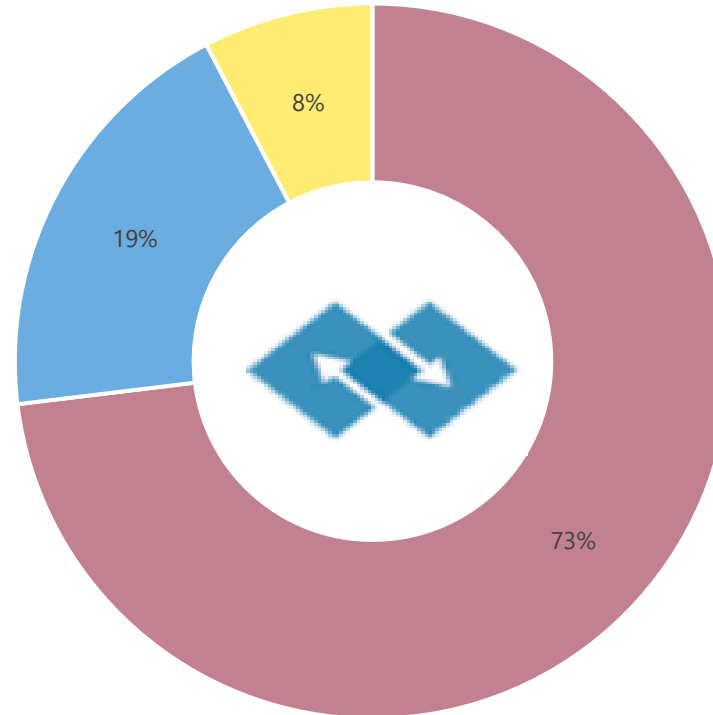


| The survey – open-source and commercial tools

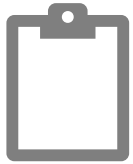




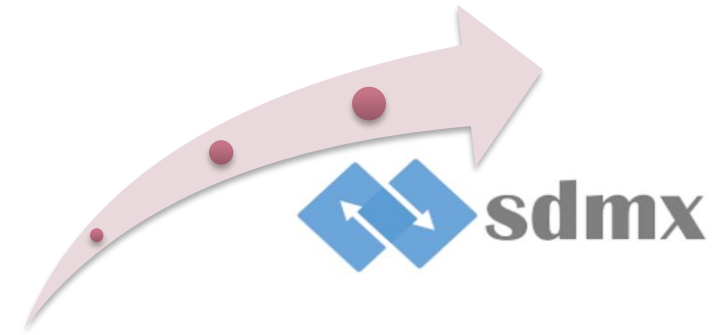
| The survey – Barriers to using open-source tools



- Cyber security must approve use of open-source tools or open source library
- Policies require that in order to use an open-source tool, the source code must be provided
- Polices forbid the use of open-source tools



| The survey – key takeaways for the future



- SDMX adoption and relevance
 - **13%** of respondent central banks are **evaluating or planning to implement SDMX**
 - There is a **knowledge gap**. Learning initiatives to **close this gap** are **essential!**
- Empower the data community through
 - Tools are not keeping up with the standard. Lack of support for SDMX 3.0.
 - Address **barriers to adoption and use of open-source tools**
 - Continued strong **cooperation** and **collaboration** to support SDMX in tools through the full value chain



Thank You