

10TH EXPERT GROUP MEETING ON

Statistical Data and Metadata eXchange

JANUARY 25-28, 2021

Stocktaking of (reusable) SDMX Tools

January 28, 2021

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SDMX Catalogue Sources

SDMX.org Tools page

https://sdmx.org/?page_id=4500

Awesome Official Statistics Software

<https://github.com/SNStatComp/awesome-official-statistics-software>

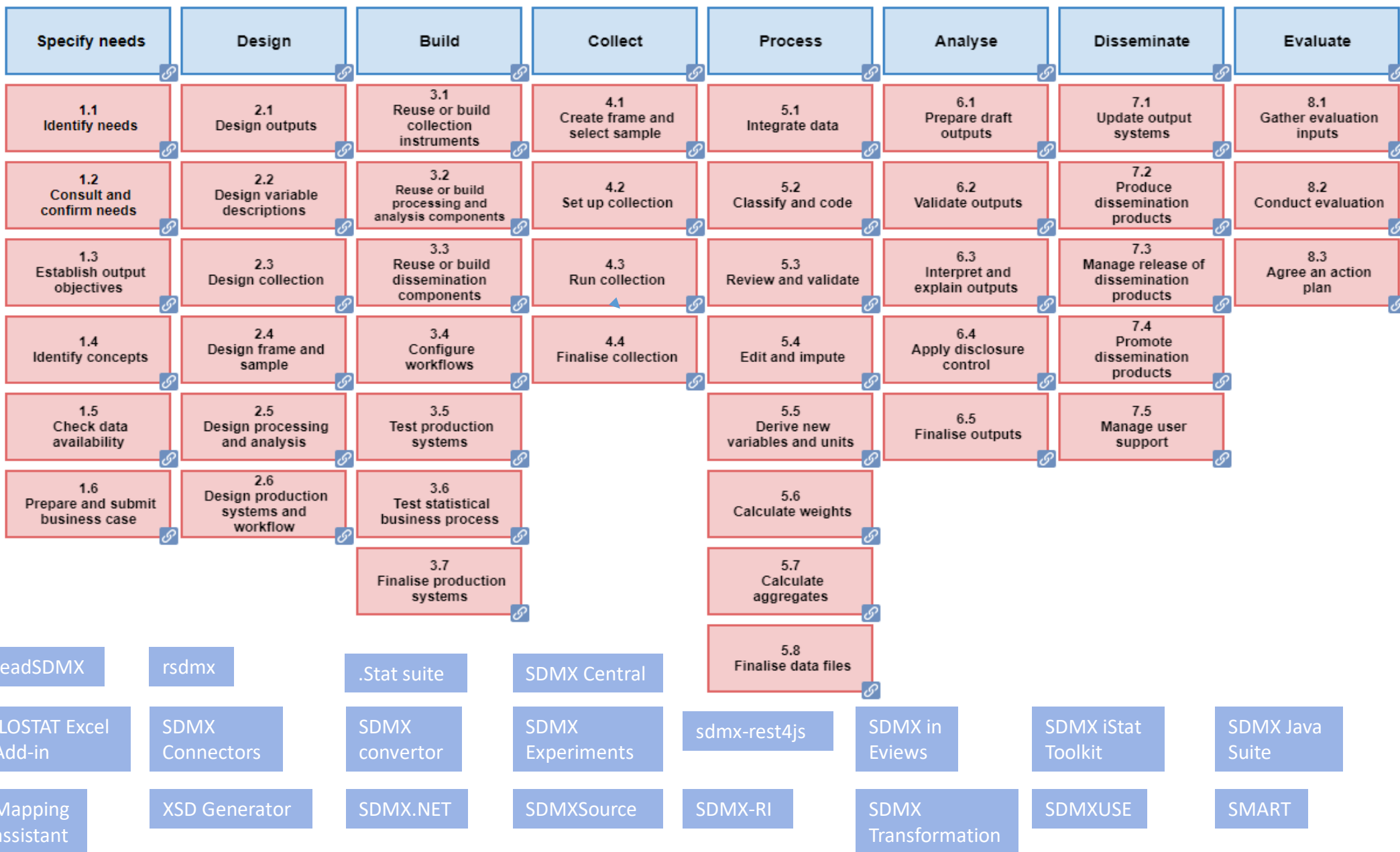
How to Classify the Tools?

- Functional mapping
- GSBPM statistical lifecycle mapping
 - An idea from the [awesome list](#)
- Types of License
- Other important factors:
 - Documentation, Ease of delivery, Maintenance cycle, Quality, Community involvement

Functional Mapping

	Data reporting/ dissemination	Manage/ Store Structural metadata	Author Structural metadata	SDMX collection/ provisioning/ validation	Data discovery (DCAT, Schema.org)	Code libraries	Connectors	Transform/ transcode	Data/ref metadata editing	Data visualisation
Data structure wizard										
SDMX Matrix Generator										
DSD Constructor										
Euro-SDMX Registry										
Flex-CB Vis Framework										
Fusion Registry Community										
Fusion Registry Enterprise										
Fusion Transformer	readSDMX	rsgmx	.Stat suite		SDMX Central					
OpenSDMX	ILOSTAT Excel Add-in	SDMX Connectors	SDMX convertor	SDMX Experiments	sdmx-rest4js	SDMX in Eviews	SDMX Java Suite	SDMX iStat Toolkit		
pandaSDMX	Mapping assistant	XSD Generator	SDMX.NET	SDMXSource	SDMX-RI	SDMX CSPA Transformation	SDMXUSE	SMART		

Generic Statistical Business Process Model



Data structure wizard

SDMX Matrix Generator

DSD Constructor

Euro-SDMX Registry

Flex-CB Vis Framework

Fusion Registry Community

Fusion Registry Enterprise

Fusion Transformer

OpenSDMX

pandaSDMX

Types of License

"Open source"	Permissive software license	Free software license	European Union Public Licence V.1.1	Apache License, Version 2.0	Open source (GPL -3)	LGPL 3.0	MIT license	Proprietary public licence agreement	Proprietary commercial software license
Data Structure Wizard	Flex-CB Visualisation Framework	Fusion Transformer	Mapping Assistant	pandaSDMX	Read SDMX	SDMX-Experiments	SDMX Matrix Generator	Fusion Registry Community	Fusion Registry Enterprise
Euro-SDMX registry	OpenSDMX	DSD Constructor					.Stat suite		? SDMX Central
r sdmx	SDMX Java Suite	ILOSTAT Excel Add-in							
SDMX in EViews		SDMX Connectors for Statistical Software							
SDMX Istat Toolkit		SDMX converter							
SDMXUSE		SDMX.NET							
		SDMXSource							
		SDMX-RI							
		SDMX Transformation							
		SMART							
		XSD Generator							

What are the Gaps in SDMX Tools lists?

Functional

- Data/reference metadata editing
- Data discovery (DCAT, Schema.org)
- Data visualisation
- SDMX collection/provisioning/validation

Statistical lifecycle (relevant to SDMX or VTL)

- Data validation
- Edit and impute, Derivation, Calculate aggregates
- Manage release of dissemination products (time lag, release calendar, etc.)

Also

- Bridging/integration with other standards (DDI, XBRL, JSON-Stat, GSIM)
- Commercial tool integration (Oracle, Microsoft, etc.)
- Necessary upgrades for SDMX 3.0

Food for thought

Addressing the gaps

- Many tools built from motivation, inspiration - how to encourage this?
- How to attract funding to upgrade/create tools?
- How to encourage commercial vendors to add SDMX?
- Motivate a threshold for quality and maintenance?

How to showcase the tools?

- Reformat [SDMX.org Tools](#)
- Add to the [awesome list](#)
- ???

Are you willing to share other reusable SDMX tools?

- Send details to secretariat@sdmx.org