



# SDMX Implementations

Marko Javorek, Statistics Division, ESCAP




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Economic and Social Commission for Asia and the Pacific



## SDMX levels of engagement

- SDMX standards and tools can be used to facilitate data exchange at different levels:
  - Data collection;
  - Data dissemination;
  - Data warehousing.
- The use of SDMX is not limited to NSO-international agencies, it can be also used internally within an NSS (between agencies).



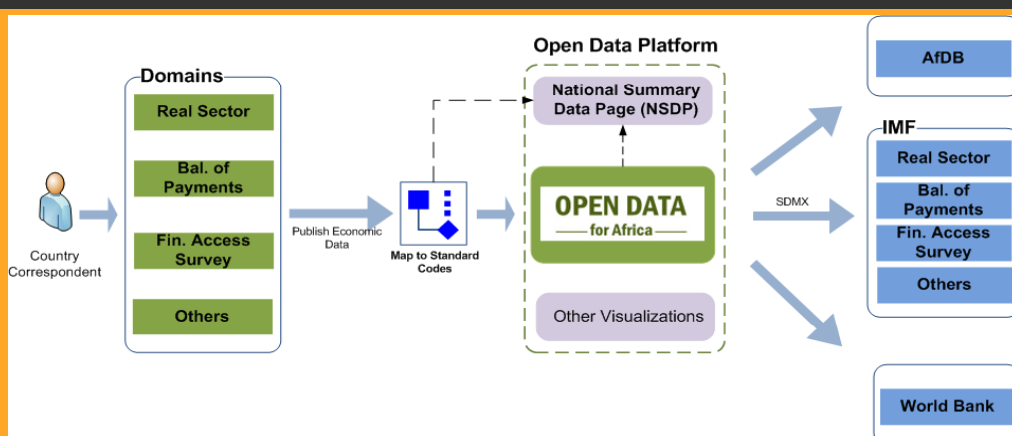
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## IMF

- SDDS Plus
  - Additional data categories & longer time series compared to SDDS
  - SDMX: The dissemination format selected for SDDS Plus, replacing HTML
  - For countries without SDMX capacity they provide an Excel-to-SDMX Converter
- Open Data Platform (sponsored by AfDB)
  - Country Open Data is ready-to-use solution for implementing country's Open Data program. It provides a public website on Internet which provides end-to-end experience for data users from data access to data analysis to content building to sharing/dissemination.
  - No infrastructure investment needed, but no capacity building
  - Using SDDS Plus DSD - dissemination DSD



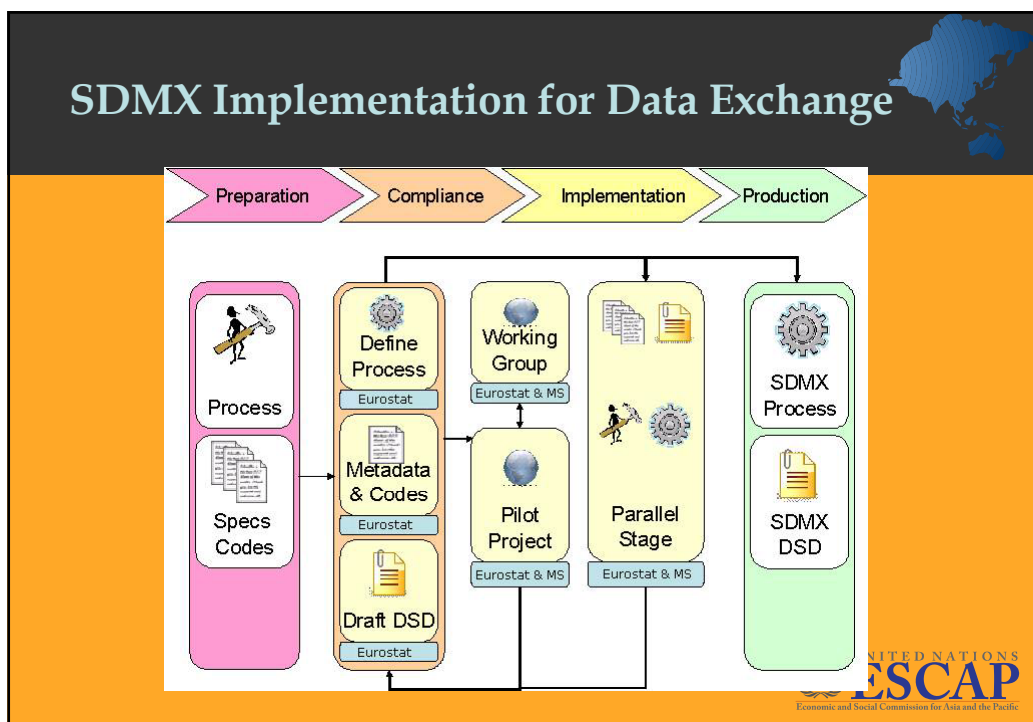
## SDMX Data Submission (IMF/AfDB - ODP)



Collection - Structure and Content Standards						
<b>Dimensions</b>						
Position in key	Concept Mnemonic	Description	Code List Mnemonic	Description	Maint. Org.	
1	DATA_DOMAIN	Data Domain	CL_DATADOMAIN	DATA_DOMAIN code list	IMF	
2	REF_AREA	Reference country or area	CL_REF_AREA	Area code list	SDMX	
3	INDICATOR	Economic Indicator	CL_INDICATOR	Economic Indicators Code List	IMF	
4	COUNTERPART_AREA	Counterpart country or area	CL_REF_AREA	Area code list	SDMX	
5	TIME_PERIOD	Time			SDMX	
<b>Attributes</b>						
Attachment Level	C/M	Concept Mnemonic	Description	Code List Mnemonic	Description	Maint. Org.
DataSet	C	COMMENT	Detailed description of the data set	Uncoded	Free Text (up to 1050 characters)	IMF
Series	M	FREQ	Frequency	CL_FREQ	FREQ code list	SDMX
Series	C	BASE_PER	Base Period		TIME_PERIOD format	SDMX
Series	M	UNIT_MULT	Unit multiplier	CL_UNIT_MULT	Unit multiplier code list	SDMX
Observation	C	OBS_STATUS	Observation status	CL_OBS_STATUS	Observation status code list	SDMX (Expanded by IMF)
Series	C	TIME_FORMAT	Time Format	CL_TIME_FORMAT	Time Format code list	SDMX
<b>Measures</b>						
		Concept Mnemonic	Description	Code List Mnemonic	Description	Maint. Org.
		OBS_VALUE	Observation Value			SDMX

## Eurostat

- Data exchange between EU NSOs and Eurostat based on SDMX
- Development of SDMX-RI
- Eurostat Census Hub - an "information hub", based on the concept of data sharing, where a group of partners agree on providing access to their data according to standard processes, formats and technologies
- Eurostat SDMX Registry



## Other international organisation

- UNSD-Dfid Country Data (11 countries)
  - DevInfo & MDG Data Structure Definition
- OECD: Short-term economic statistics (STES)
  - STES DSD and using Eurostat SDMX-RI
- WB: Collecting and Maintaining External Debt Data - Debtor Reporting System (DRS)
  - New DSD for the loan level data
- ILO: ILOStat
  - Collection and dissemination of labour statistics
  - Data and metadata interchange with OECD and Eurostat, and collecting data from a number of "pilot" countries who agree to use SDMX in 2014.

## Australia



- Very broad scope of use of SDMX (reporting & dissemination)
- Implementation on the way, to be finished by 2015/16
- ABS.Stat (<http://stat.abs.gov.au/>) interactive free online tool that presents data in a searchable, flexible and dynamic way and via SDMX Services; and provides users with two options:
  - web browser interface where you can view, query and download data;
  - web services interface described in a machine-actionable format using the Statistical Data and Metadata Standard (SDMX) allowing machine-to-machine mechanisms for accessing and sharing ABS data.



## Republic of Korea



- KODAPS (Korean Data Provision System)
  - Automated data provision to international organizations previously done manually and SDMX web service
  - Relieving the burden of international organizations
  - Advantage when collecting statistics of other countries or international organizations
  - Promoting SDMX to other national agencies (e.g. BoK)
  - Host SDMX Expert Group Meeting

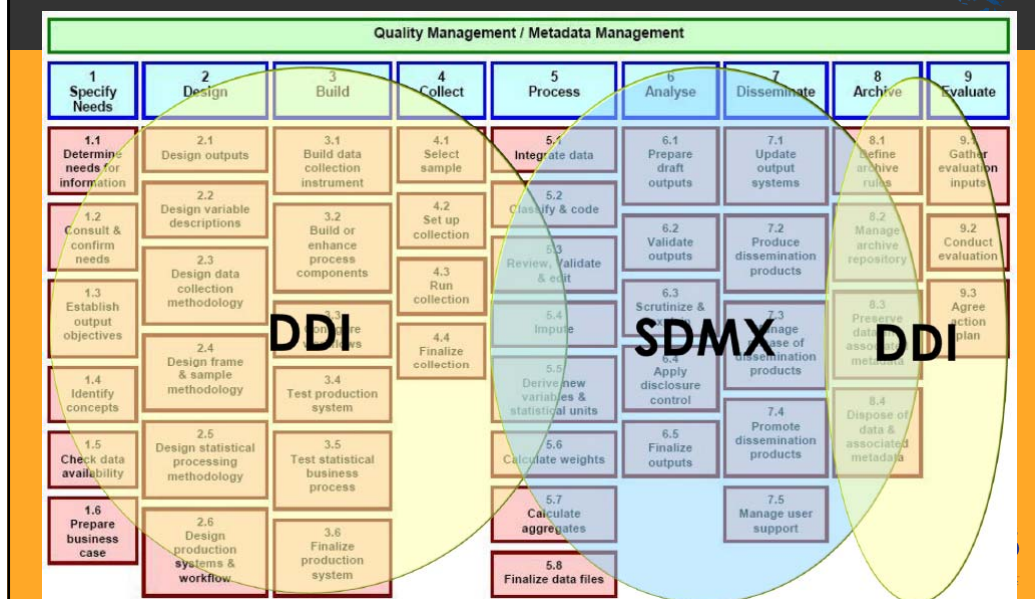


## SDMX and other standards

- DDI
  - The Data Documentation Initiative (DDI) is a standard dedicated to microdata documentation
  - enables documentation of complex microdatafiles
  
- GSBPM
  - Generic Statistical Business Process Model (GSBPM) for business concepts



## Link between GSBPM, DDI and SDMX



## DSD Overview



DSD Title	Maintenance agency	Nature of DSD
Balance of Payments (BOP)	IMF	global
National Accounts (NA) [30 September 2013]	Eurostat	global
Foreign Direct Investment (FDI)	OECD	global
Government Finance Statistics (GFS)		
Eco-Fin	IMF	corporate
MDGs		global
Debt Reporting by Developing Countries		
R&D data	OECD, UNESCO	
National Statistics Data Page for SDDS Plus	IMF	corporate
Fisheries catch statistics	FAO	
Fisheries landings statistics	Eurostat	
Waste statistics		
Education	Eurostat	
Health	Eurostat	
Air transport statistics		
Pesticide statistics		
International merchandise trade statistics		
Job vacancy statistics		
Labour cost index		
Short-term Economic Indicators	OECD	corporate