

Statistical Data and Metadata Exchange (SDMX) Global Data Structure Definition (DSD)

General Report Section 4.7

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Department of Statistics
11/10/2018



What's necessary to exchange data?

1. Agree on the format:
 - a) Microdata: SPSS, stata
 - b) Aggregate data: Excel, csv, xml, AS 
2. Communicate data structure 
3. Communicate the record's semantics:
 - a) Variables' names
 - b) Labels for variables and values (categories) 
4. Provide additional information to understanding the content ("metadata") 



Data exchange in agreed format

Miranda_Eng.sav Date modified: 18/08/2014 12:52 Date created: 29/03/2018 11:35
SPSS Statistics Data Document Size: 182 KB

Exchange microdata in agreed format

Visible: 26 of 26 Variables

1: OWNERSHIP

1 1 07 010 0701 07 02 01 1 3 1 2 1 4 2

2 1 07 010 0701 07 02 02 1 3 1 2 1 4 2

3 1 07 010 0701 07 03 01 1 3 1 2 1 4 2

4 1 07 010 0701 07 03 02 1 3 1 2 1 4 2

5 1 07 010 0701 07 03 03 1 3 1 2 1 4 2

6 1 07 010 0701 07 03 04 1 3 1 2 1 4 2

7 1 07 010 0701 07 03 05 1 3 1 2 1 4 2

8 1 07 010 0701 07 03 06 1 3 1 2 1 4 2

9 1 07 010 0701 08 05 01 1 3 1 2 1 4 2

10 1 20 1 3 1 2 1 4 2

11 1 20 1 3 1 2 1 4 2

12 1 20 1 3 1 2 1 4 2

13 1 20 1 3 1 2 1 4 2

14 1 20 1 3 1 2 1 4 2

15 1 20 1 3 1 2 1 4 2

16 1 20 1 3 1 2 1 4 2

17 1 20 1 3 1 2 1 4 2

18 1 20 1 3 1 2 1 4 2

19 1 20 1 3 1 2 1 4 2

20 1 20 1 3 1 2 1 4 2

21 1 20 1 3 1 2 1 4 2

22 1 20 1 3 1 2 1 4 2

23 1 20 1 3 1 2 1 4 2

24 1 20 1 3 1 2 1 4 2

25 1 20 1 3 1 2 1 4 2

Variables

Variable Information:

Name OWNERSHIP

Label Ownership

Type F1

Missing Values none

Measurement Nominal

Value Label

1 Owned

2 Squatted

3 Rented-Private

4 Rented-Govt

5 Leased

6 Rent-free

7 Other

Go To Paste Cancel Help

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode ON

Format

Data Structure

Data Semantics

Descriptive Metadata



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20th International Conference of Labour Statisticians
10-19 October 2018, Geneva



Data exchange in agreed format

Miranda_Eng.dat Date modified: 05/10/2018 11:24
DAT File Size: 82.1 KB

Miranda_Eng.sas Date modified: 05/10/2018 11:24
SAS System Program Size: 6.14 KB

```

/* This SAS PROGRAM was automatically generated by STAT/Transfer ver.13.3.984.0312 */
/* ENCODING CP1252 */
/* The following line should contain the complete path and NAME of your raw DATA FILE */
FILENAME datafile 'D:/WORK_SMART/ExampleMicrodata/Miranda_Eng.dat';
/* The following line should contain the directory IN which you wish your SAS FILE TO be stored */
libname library 'D:/WORK_SMART/ExampleMicrodata/';
/* The following line CONTAINS the NAME (without the extension) for your SAS dataset */
%LET dataset = Miranda_ ;

proc FORMAT library = library ;
  VALUE URBRRUR
    1 = 'Urban'
    2 = 'Rural' ;
  VALUE DWELLING
    1 = 'Undivided private house'
    2 = 'Part of a private house'
    3 = 'Flat, apartment, condominium'
    4 = 'Townhouse'
    5 = 'Double house/Duplex'
    6 = 'Combined business & dwelling'
    7 = 'Barracks' ;
  VALUE OWNERSHI
    1 = 'Owned'
    2 = 'Squatted'
    3 = 'Rented-Private'
    4 = 'Rented-Govt'
    5 = 'Leased'
    6 = 'Rent-free'
    7 = 'Other' ;
  VALUE WALLS
    1 = 'Wood'
    2 = 'Concrete/Concrete Blocks'
    3 = 'Wood & Concrete'
    4 = 'Stone'
    5 = 'Bricks'
    6 = 'Adobe'
    7 = 'Makeshift'
    8 = 'Other/don't know' ;
  VALUE ROOF

```

Format

Data Structure

Data Semantics

Descriptive Metadata



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10-19 October 2018, Geneva



Data exchange in agreed format

Miranda_Eng.csv Date modified: 05/10/2018 10:28

Date created: 05/10/2018 10:28

CSV File

Size: 136 KB

DMCvEditor																										
File Edit Search View Language Settings Help																										
DISTRICT	MAJDIV	MINDIV	ED	BUILDING	HHOLD	PERSON	URBRUR	DWELLING	OWNERSHIP	WALLS	ROOF	WATER	TOILET	LIGHTING	FUEL	GARBAGE	PHONE	CELLULAR	INTERNET	RELATION	SEX	AGE	ATTENSO	UNIONST	MA	
1	07	030	0701	07	02	01	1	3	1	2	1	4	2	3	3	6	1	2	2	1	2	72	3	8	1	
1	07	030	0701	07	02	02	1	3	1	2	1	4	2	3	3	6	1	2	2	2	5	2	11	1	0	0
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1	07	030	0701	07	03	05	1	3	6	2	1	4	2	3	3	6	1	2	1	3	2	17	1	8	6	
1	07	030	0701	07	03	06	1	3	6	2	1	4	2	3	3	6	1	2	1	3	1	9	1	0	0	
1	07	030	0701	08	05	01	1	6	1	2	1	4	2	3	3	6	1	2	2	1	1	78	3	6	7	
1	20	030	1408	04	03	01	1	1	1	2	1	4	2	3	3	6	1	1	2	1	1	47	3	1	1	
1	20	030	1408	04	03	02	1	1	1	2	1	4	2	3	3	6	1	1	2	2	2	46	2	1	1	
1	20	030	1408	04	03	03	1	1	1	2	1	4	2	3	3	6	1	1	2	8	1	9	1	0	0	
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1	20	030	1408	05	04	02	1	2	3	2	1	4	2	3	3	6	1	1	2	2	2	30	3	2	1	
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1	20	030	1408	09	08	03	1	2	1	2	1	4	2	3	3	6	1	1	2	3	2	10	1	8	6	
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1	20	030	1408	09	09	02	1	2	3	2	1	4	2	3	3	6	1	2	2	7	2	17	3	8	5	
1	20	030	1408	09	10	01	1	2	3	2	1	4	2	3	3	6	1	2	2	1	1	32	3	2	1	
1	20	030	1408	09	10	02	1	2	3	2	1	4	2	3	3	6	1	2	2	2	2	25	2	2	1	
1	24	040	0901	01	05	01	1	3	4	2	6	4	1	3	3	6	1	2	2	1	2	40	3	8	1	
1	24	040	0901	01	05	02	1	3	4	2	6	4	1	3	3	6	1	2	2	7	2	42	3	8	1	
1	24	040	0901	01	05	03	1	3	4	2	6	4	1	3	3	6	1	2	2	7	2	19	1	8	6	
1	24	040	0901	01	05	04	1	3	4	2	6	4	1	3	3	6	1	2	2	7	2	16	1	8	6	

Data exchange in agreed format

Miranda_Eng.xlsx

Title: Add a title

Size: 214 KB

Microsoft Excel Worksheet Authors: Greising, Edgardo

Date modified: 05/10/2018 12:03

FILE

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INSERT

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ILOSTAT Data Explorer

Insert
Function

AutoSum

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Used

Financial

Logical

Text

Date &
Time

Lookup &
Reference

Math &
Trig

More
Functions

Name
Manager

Define Name

Use in Formula

Create from Selection

Trace Precedents

Trace Dependents

Remove All Arrows

Function Library

A1 : X ✓ fx DISTRICT

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	DISTRICT	MAJDIV	MINDIV	ED	BUILDING	HHOLD	PERSON	URBRUR	DWELLING	OWNERSHIP	WALLS	ROOF	WATER	TOILET	LIGHT
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3	1	7	10	701	7	2	2				2	1	4	2	
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- ☒ Format
- ☒ Data Structure
- ☒ Data Semantics
- ☒ Descriptive Metadata

	A	B	C
1	CODE	LABEL	
2	1	'Owned'	
3	2	'Squatted'	
4	3	'Rented-Private'	
5	4	'Rented-Govt'	
6	5	'Leased'	
7	6	'Rent-free'	
8	7	'Other'	

Exchange of aggregate data in agreed format



International
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Format



Data Structure



Data Semantics



Descriptive Metadata

Time stamp	15/02/2017
Data provider	ILO
Target Name	8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value
Indicator Name	8.5.2 Unemployment rate, by sex, age and persons with disabilities
Series Name	Unemployment rate by sex and main age group

Not available disaggregated by disability status. Unemployment defined as persons not in employment, available and seeking, unless otherwise stated in the footnotes.
Unemployment rate corresponds to the unemployed as a percentage of the labour force.

Country code (M49)	Country name	Year	Sex	Age group	Observation value	Footnotes about age coverage	Footnotes	Footnotes about source	Unit	Nature of data	Data source
4	Afghanistan	2005	Total	15+	8.5			Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
4	Afghanistan	2005	Male	15+	7.6			Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
4	Afghanistan	2005	Female	15+	9.5			Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Total	15+	10.7	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Total	15+	13.5	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Total	15-24	19.8	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Male	25+	10.7	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Male	15+	14.4	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Male	15-24	22.8	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Female	25+	10.6	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Female	15+	12.2	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2007	Female	15-24	15.8	Nonstandard age	Break in series	Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Total	25+	10.0	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Total	15+	13.0	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Total	15-24	24.7	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Male	25+	9.1	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Male	15+	12.5	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Male	15-24	25.5	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Female	25+	11.2	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Female	15+	13.5	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Female	15-24	23.8	Nonstandard age		Data referenc	Percentage	C	ILOSTAT - Labour Force Survey

10-19 October 2018, Geneva



Exchange of aggregate data in agreed format



International
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Format



Data Structure



Data Semantics



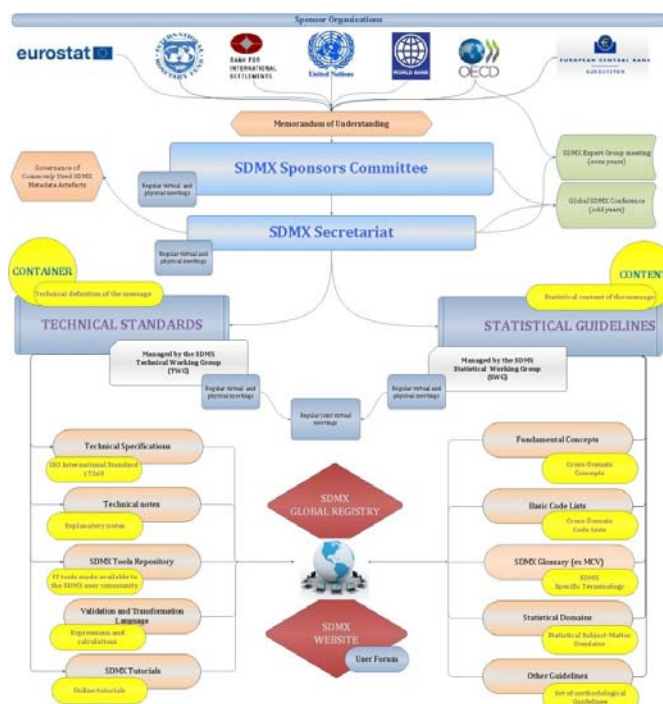
Descriptive Metadata

Series Code	Series Name	Indicator #	Reference Area	Reference Area Name	Time Period	Observation Value	Unit of M	Nature of	Sex	Age group	Classification notes	Source Details	Time Details	Footnotes
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	4	Afghanistan	2005	8.45	%	C	Male	15+		ILOSTAT - LFS - Labour force survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	4	Afghanistan	2005	7.59	%	C	Male	15+		ILOSTAT - LFS - Labour force survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	4	Afghanistan	2005	9.45	%	C	Female	15+		ILOSTAT - LFS - Labour force survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2007	13.5	%	C	Total	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2007	14.4	%	C	Male	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2007	12.2	%	C	Female	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2008	13.05	%	C	Total	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2008	12.49	%	C	Male	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2008	13.76	%	C	Female	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	27.17	%	C	Total	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	12.22	%	C	Total	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	12.15	%	C	Male	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	26.21	%	C	Male	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	9.39	%	C	Male	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	13.82	%	C	Female	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	28.52	%	C	Female	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2009	13.28	%	C	Female	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2010	14.2	%	C	Total	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2010	12.28	%	C	Male	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2010	13.76	%	C	Female	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2011	13.98	%	C	Total	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2011	13.45	%	C	Male	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2011	14.45	%	C	Female	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2012	13.44	%	C	Total	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2012	14.07	%	C	Male	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2012	12.01	%	C	Female	15+	Nonstandard age group: Excludin ILOSTAT - LFS - Labour Force Survey	ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Noncal
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	15.84	%	C	Total	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	30.29	%	C	Total	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	13.83	%	C	Total	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	27.53	%	C	Male	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	32.24	%	C	Male	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	13.14	%	C	Male	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	31.2	%	C	Female	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	26.13	%	C	Female	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2013	11.76	%	C	Female	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	19.52	%	C	Total	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	39.05	%	C	Total	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	14.71	%	C	Total	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	19.52	%	C	Male	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	42.55	%	C	Male	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	15.71	%	C	Male	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	35.21	%	C	Female	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	32.55	%	C	Female	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2014	13.4	%	C	Female	25+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2015	17.28	%	C	Total	15+		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual
SL_TU_UEM	Unemployment rate, total and by sex and age (%)	8.5.2	8	Albania	2015	38.8	%	C	Total	15-24		ILOSTAT - LFS - Labour Force Survey	Annual	Data reference period: Annual

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SDMX



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SDMX



Statistical Data and Metadata eXchange

SDMX is an ISO standard (ISO 17369) designed to describe statistical data and metadata, normalise their exchange, and improve their efficient sharing across statistical and similar organisations. It provides an integrated approach to facilitating statistical data and metadata exchange, enabling interoperable implementations within and between systems concerned with the exchange, reporting and dissemination of statistical data and their related meta-information.

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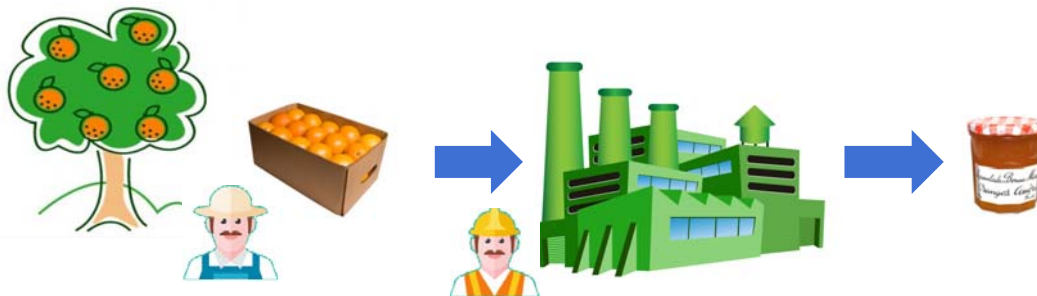


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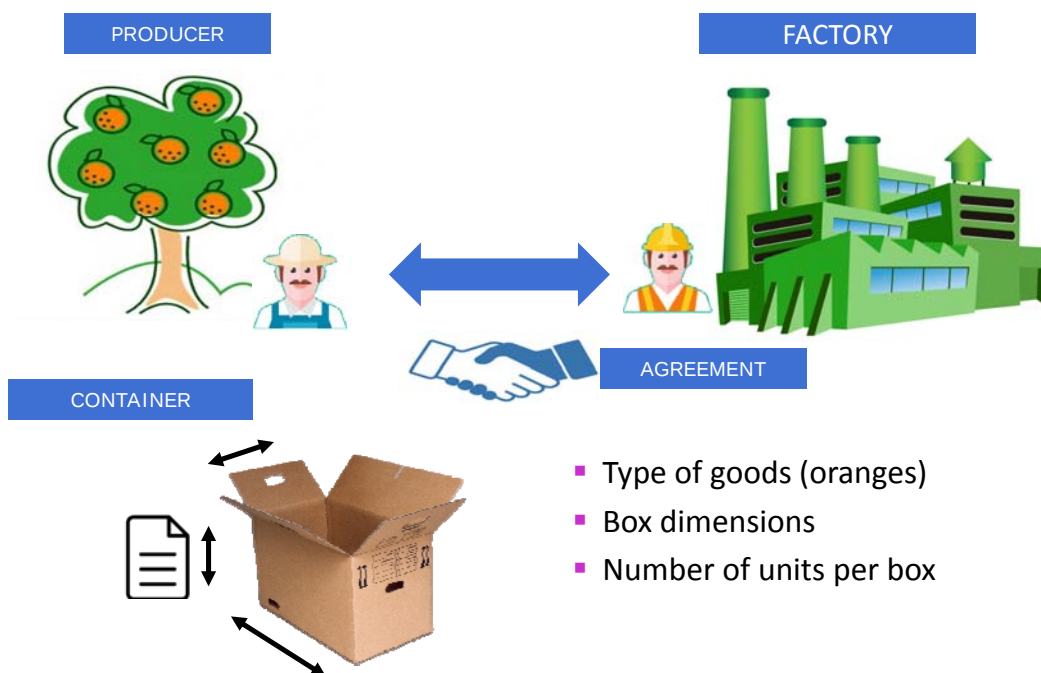


Merchandise exchange

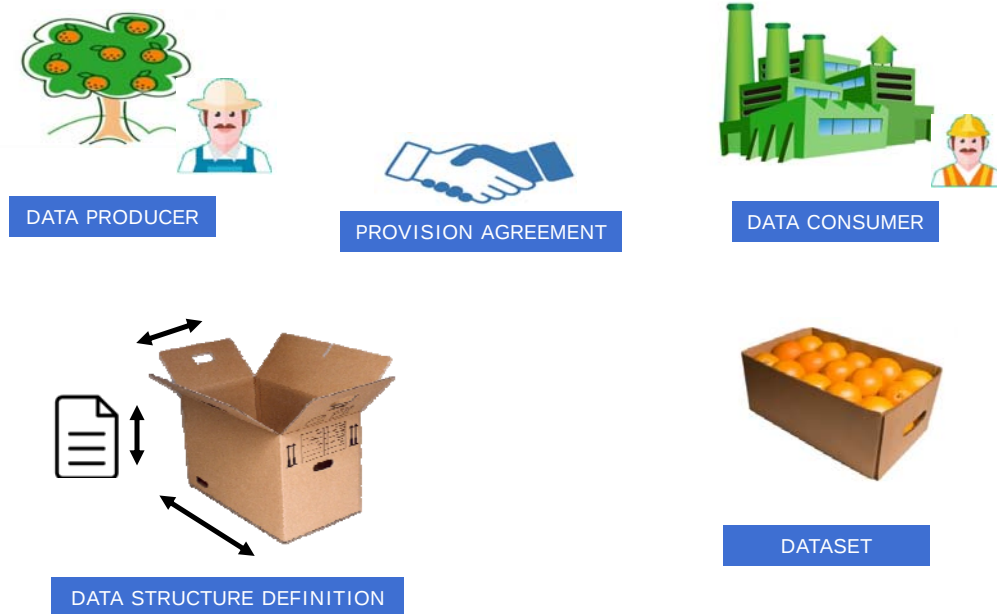


Data exchange is not much different from any other products exchange...

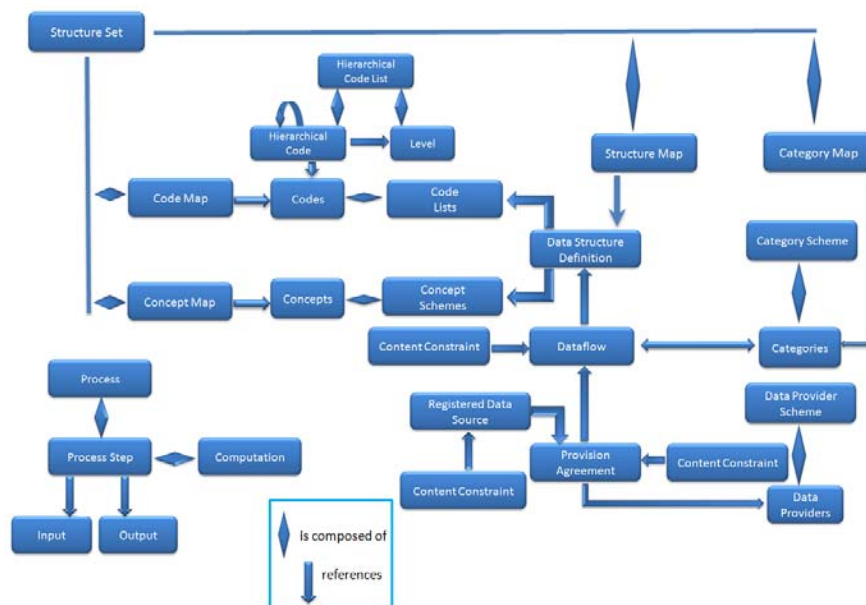
Merchandise exchange



Data exchange



SDMX Information Model



Deriving a Data Structure from a table

Concept Name	Role	Identifier	Code list
COUNTRY	Dimension		
VARIABLE	Dimension	REPRESENTED_VARIABLE	CL_REPRESENTED_VARIABLE
SEX	Dimension	SEX	CL_SEX
AGE	Dimension	AGE	CL_AGE
TIME	Dimension	TIME_PERIOD	
OBS_VALUE	Measure		
UNIT OF MEASURE	Attribute	UNIT_MEAS	CL_UNIT_MEASURE
AGE_COVERAGE	Attribute	AGE_COV	CL_AGE_COV
FOOTNOTES	Attribute	FOOTNOTES	
NATURE_OF_DATA	Attribute	NATURE	CL_NATURE
SOURCE	Attribute	SOURCE	

8	Albania	2008	Male	15-24	25.5	Nonstandard age	Data referend	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Female	25+	11.2	Nonstandard age	Data referend	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Female	15+	13.5	Nonstandard age	Data referend	Percentage	C	ILOSTAT - Labour Force Survey
8	Albania	2008	Female	15-24	23.8	Nonstandard age	Data referend	Percentage	C	ILOSTAT - Labour Force Survey

■ DIMENSIONS
 ■ ATTRIBUTES
 ■ MEASURE

Why using SDMX for data exchange?

1. Improves accuracy and reliability to all those involved in supplying or using statistical data
2. Provides major benefits in the preparation, analysis and communication of statistical information.
3. Offers cost savings and greater efficiency by automating data reporting/collection activities



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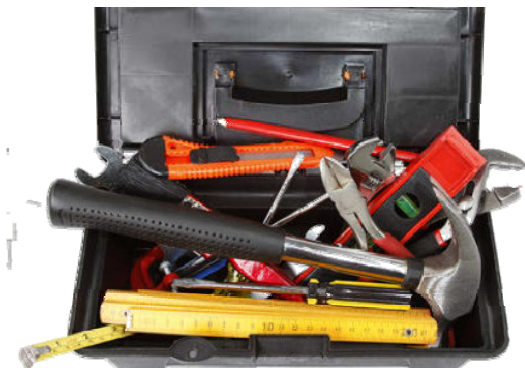
Data Structure Definition (DSD)



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Data Structure Definition (DSD)



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Why Global Artefacts?

1. Facilitates interoperability
2. *De facto* agreement on the structure of the data to be exchanged
3. Alignment with international standards
4. Agreement on concepts to be included in the data structure and their code lists
5. Homogeneous set of descriptive metadata



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Global DSD projects

- Consumer Prices Indices



- First version already released

- Sustainable Development Goals



- Pilot phase just finished.
- Feedback received being analysed
- Work on metadata structures

- Labour Statistics



- Pilot phase about to be launched



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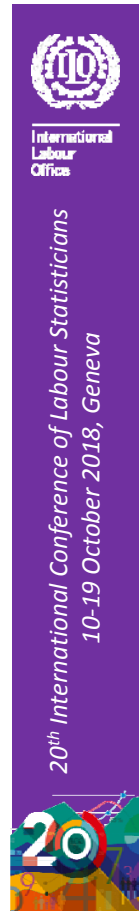
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Points of note

- Points of note for ICLS
 - Comment on the relevance of the ongoing work for the development of SDMX global artefacts
 - Support for the implementation of the SDMX standard to facilitate data reporting activities

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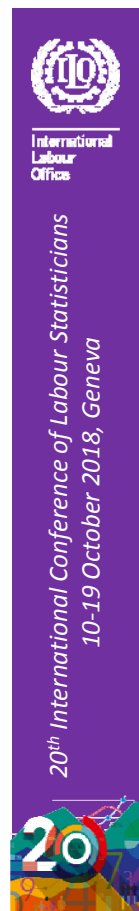


20th ICLS

Thank you!

Sdmx.support@ilo.org

greising@ilo.org



CPI STATISTICS GLOBAL DSD MATRIX

CONCEPT	IDENTIFIER	ROLE	CODE LIST
Reference area	REF_AREA	Dimension	IMF:CL_AREA(1.8)
Frequency of observation	FREQ	Dimension	SDMX:CL_FREQ(2.0)
Indicator type	IND_TYPE	Dimension	ESTAT:CL_IND_TYPE(1.0)
Index type	IDX_TYPE	Dimension	ESTAT:CL_IDX_TYPE(1.0)
Base period	BASE_PER	Dimension	ObservationalTimePeriod
Item in the classification	ITEM	Dimension	ESTAT:CL_ITEM_PRICE(1.0.1)
Geographical coverage	COVERAGE_GEO	Dimension	ESTAT:CL_COVERAGE_GEO(1.0)
Population coverage	COVERAGE_POP	Dimension	ESTAT:CL_COVERAGE_POP(1.0)
Seasonal adjustment	SEASONAL_ADJUST	Dimension	ESTAT:CL_SEASON_ADJUST(1.0)
Time transformation	TRANSFORMATION	Dimension	ESTAT:CL_TRANSFORMATION(1.2.1)
Unit of measure	UNIT_MEASURE	Dimension	IMF:CL_UNIT(1.9)
Custom breakdown	CUST_BREAKDOWN	Dimension	ESTAT:CL_CUST_BREAKDOWN(1.0)
Time period	TIME_PERIOD	Time dimension	ObservationalTimePeriod
Observation value	OBS_VALUE	Measure	Double (CPI)/Integer (HICAP)
Observation status	OBS_STATUS	Attribute (O)	ESTAT:CL_OBS_STATUS(2.2)
Confidentiality status	CONF_STATUS	Attribute (O)	SDMX:CL_CONF_STATUS(1.1)
Custom breakdown label	CUST_BREAKDOWN_LB	Attribute (O)	String
Decimals	DECIMALS	Attribute (M)	Integer
Time format	TIME_FORMAT	Attribute (M)	SDMX:CL_TIME_FORMAT(1.0)
Unit multiplier	UNIT_MULT	Attribute (M)	Integer
Embargo time	EMBARGO_TIME	Attribute (O)	DateTime
Base period of the weight	IND_BASE_PER	Attribute (O)	ObservationalTimePeriod
Base period start	BASE_PER_START	Attribute (O)	ObservationalTimePeriod
Base period end	BASE_PER_END	Attribute (O)	ObservationalTimePeriod
Reporting year start day	REPYEARSTART	Attribute (O)	gMonthDay
Reporting year end day	REPYEAREND	Attribute (O)	gMonthDay
Observation pre-break value	PRE_BREAK_VALUE	Attribute (O)	Double
Time period collection	TIME_PER_COLLECT	Attribute (O)	IMF:CL_TIME_COLLECT(1.0)
Data Update – Last Update	LAST_UPDATE	Attribute (O)	DateTime
Title	TITLE	Attribute (O)	String
Data compilation	DATA_COMP	Attribute (O)	String
Compiling agency	COMPILING_ORG	Attribute (O)	IMF:CL_ORGANISATION(1.7)
Dissemination organisation	DISS_ORG	Attribute (O)	IMF:CL_ORGANISATION(1.7)
Comments on dataset level	COMMENT_DSET	Attribute (O)	String
Comments to the observation value	COMMENT_OBS	Attribute (O)	String
Comments on series level	COMMENT_TS	Attribute (O)	String



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SDG GLOBAL DSD MATRIX

CONCEPT	ROLE	CODE LIST
FREQ	Dimension	CL_FREQ
REPORTING_TYPE	Dimension	CL_REPORTING_TYPE
SERIES	Dimension	CL_SDG_SERIES
REF_AREA	Dimension	CL_AREA
SEX	Dimension	CL_SEX
AGE	Dimension	CL_AGE
URBANISATION	Dimension	CL_URBANISATION
INCOME_WEALTH_QUANTILE	Dimension	CL_QUANTILE
EDUCATION_LEV	Dimension	CL_EDUCATION_LEV
OCCUPATION	Dimension	CL_OCCUPATION
CUST_BREAKDOWN	Dimension	CL_SDG_CUST_BREAKDOWN
COMPOSITE_BREAKDOWN	Dimension	CL_SDG_COMP_BREAKDOWN
DISABILITY_STATUS	Dimension	CL_DISABILITY_STATUS
TIME_PERIOD	Time dimension	Uncoded
OBS_VALUE	Measure	Uncoded
UNIT_MULT	Attribute (M)	CL_UNIT_MULT
UNIT_MEASURE	Attribute (M)	CL_UNIT_MEASURE
OBS_STATUS	Attribute (M)	CL_OBS_STATUS
NATURE	Attribute (O)	CL_NATURE
TIME_DETAIL	Attribute (O)	Uncoded
COMMENT_OBS	Attribute (O)	Uncoded
TIME_COVERAGE	Attribute (O)	Uncoded
UPPER_BOUND	Attribute (O)	Uncoded
LOWER_BOUND	Attribute (O)	Uncoded
BASE_PER	Attribute (O)	Uncoded
SOURCE_DETAIL	Attribute (O)	Uncoded



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LABOUR STATISTICS GLOBAL DSD MATRIX

CONCEPT	IDENTIFIER	ROLE	CODE LIST
Reference area	REF_AREA	Dimension	CL_AREA
Subregion codes	REGION	Dimension	CL_REGION
Reference period of the indicator	INDICATOR_REF_PER	Dimension	CL_FREQ
Frequency	FREQ	Dimension	CL_FREQ
Data Source	SOURCE_TYPE	Dimension	CL_SOURCE_TYPE
Measure	MEASURE	Dimension	CL_MEASURE
Unit of measure	UNIT_MEASURE	Dimension	CL_UNIT_MEASURE
Aggregation Operation	AGGREGATION_OPERATION	Dimension	CL_AGGREGATION_OPERATION
Seasonal Adjustment	SEASONAL_ADJUST	Dimension	CL_SEASONAL_ADJUST
Labour force status	LABOUR_FORCE_STATUS	Dimension	CL_LABOUR_FORCE_STATUS
Status of Worker	WORKER_STATUS	Dimension	CL_WORKER_STATUS
Type of hours	HOURS_TYPE	Dimension	CL_HOURS_TYPE
Type of value	VALUE_TYPE	Dimension	CL_VALUE_TYPE
Sex	SEX	Dimension	CL_SEX
Age	AGE	Dimension	CL_AGE
Education level (eg, ISCED)	EDUCATION_LEV	Dimension	CL_EDUCATION_LEVEL
Economic activity (eg, ISIC)	ACTIVITY	Dimension	CL_ACTIVITY
Occupation (eg, ISCO)	OCCUPATION	Dimension	CL_OCCUPATION
Degree of urbanisation (residence)	DEG_URB	Dimension	CL_DEG_URB
Migrant status	MIGRANT_STATUS	Dimension	CL_MIGRANT_STATUS
Origin of migrant	MIGRANT_ORIGIN	Dimension	CL_AREA
Destination of migrant	MIGRANT_DESTINATION	Dimension	CL_AREA
Nationality	NATIONALITY	Dimension	CL_AREA
Type of Production Unit, e.g. Informal, Formal, Household	PROD_UNIT	Dimension	CL_PRODUNIT
Number of persons engaged in the economic unit	SIZECLASS	Dimension	CL_SIZECLASS
Composite breakdown	COMPOSITE_BREAKDOWN	Dimension	CL_COMPOSITE_BREAKDOWN
Time period	TIME_PERIOD	Time dimension	Uncoded
Observation value	OBS_VALUE	Measure	Uncoded
Observation status	OBS_STATUS	Attribute (O/M)	CL_OBS_STATUS
Confidentiality status	CONF_STATUS	Attribute (O/M)	CL_CONF_STATUS
Composite breakdown in use	COMPOSITE_BREAKDOWN_PFX	Attribute (O)	CL_COMPOSITE_BREAKDOWN_PFX
Decimals	DECIMALS	Attribute (O)	Uncoded
Time format	TIME_FORMAT	Attribute (O)	CL_TIME_FORMAT
Unit multiplier	UNIT_MULT	Attribute (M)	CL_UNIT_MULT
Currencies	CURRENCY	Attribute (O)	CL_CURRENCY
Embargo date and time	EMBARGO_TIME	Attribute (O)	Uncoded
Base period	BASE_PER	Attribute (O/M)	Uncoded
Pre-break value	PRE_BREAK_VALUE	Attribute (O)	Uncoded
Reason for break in series	BREAK_REASON	Attribute (O)	CL_BREAK
Maximum age of the population of this series	COVERAGE_MAXAGE	Attribute (O)	CL_COVERAGE_MAXAGE
Minimum age of the population of this series	COVERAGE_MINAGE	Attribute (O)	CL_COVERAGE_MINAGE
Ownership sector	COVERAGE_OWN	Attribute (O)	CL_COVERAGE_OWN
Geographical coverage	COVERAGE_GEO	Attribute (O)	CL_COVERAGE_GEO
Data reference period	COVERAGE_PER	Attribute (O)	CL_COVERAGE_PER
Time period collection	TIME_PER_COLLECT	Attribute (O/M)	CL_TIME_COLLECT
Economic or other sectors covered by the statistics	COVERAGE_ACTIVITY	Attribute (O)	CL_COVERAGE_ACTIVITY
Economic unit size coverage	COVERAGE_SIZECLASS	Attribute (O)	CL_SIZECLASS
Measure notes	MEASURE_NOTES1	Attribute (O)	CL_MEASURE_NOTES
Measure notes	MEASURE_NOTES2	Attribute (O)	CL_MEASURE_NOTES
Measure notes	MEASURE_NOTES3	Attribute (O)	CL_MEASURE_NOTES
Measure notes	MEASURE_NOTES4	Attribute (O)	CL_MEASURE_NOTES
Measure notes	MEASURE_NOTES5	Attribute (O)	CL_MEASURE_NOTES
Title of the statistical source	TITLE_STAT_SOURCE	Attribute (O)	Uncoded
Title	TITLE_TS	Attribute (O)	Uncoded
Compiling organisation	COMPIILING_ORG	Attribute (O)	CL_ORGANISATION
Organisation disseminating the data being reported	DISS_ORG	Attribute (O)	CL_ORGANISATION
Data compilation	DATA_COMP	Attribute (O)	Uncoded
Detailed description of the group of series	COMMENT_TS	Attribute (O)	Uncoded
Comments to the observation value	COMMENT_OBS	Attribute (O)	Uncoded
Comments on dataset level	COMMENT_DSET	Attribute (O)	Uncoded



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