
Open Data Services Sphinx Base

Release 0.1

Open Data Services

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This site contains draft work using JSON Schema to define and document metrics and indicators.

One example is currently available:

- *Indicator: Women's Participation In Training*

CHAPTER 1

Contents

1.1 Indicator: Women's Participation In Training

Indicator Name	Women's Participation in Training
Indicator ID/Code	Number X.X
Element/ Theme	Social/ Gender
Description	Women attending and completing trainings
Metric	% of participants that complete trainings who are women
Unit	Expressed as percent of total people attending
Report Frequency or Timing	Annually, can be updated as needed
Disaggregation	Data could be disaggregated by regional or municipality level to reduce naming duplications and to determine potential target or focal areas
Benchmarking	UN SDG—5. Gender Equality https://www.un.org/sustainabledevelopment/gender-equality/
Performance Standard	A value of 0.5 indicates that the gender gap is zero or close to zero (gender equity).
Limitations	Would detail any limitations of the synthesized approach

1.1.1 Indicator definition

This indicator is defined using JSON Schema. The schema `pcWomenCompletingTraining2.json` can be used to validate this indicator.

Title	Description	Type	Format	Required
code		string		Required
pcWCT	The code for this indicator is pcWCT.			
value		number		Required
Women completing training (as a percentage of the individuals completing training)	The total number of participants completing training whose sex is known, divided by the number of participants completing training whose sex is 'Female'.			

1.1.2 Indicator calculation

This indicator builds on two other metrics:

- nPWT - Training: Female participants
- nTPART - Training: Total Participants

If the bullets above are hyperlinks, you can navigate to find more information on collecting these metrics.

Title	Description	Type	Format	Required
numerator		object		
Numerator	Numerator			
numerator/code		string		
nPWT	The code for this indicator is nPWT			
numerator/value		number		
Training: Female participants	Number of training participants whose sex is female.			
denominator		object		
Denominator	Denominator			
denominator/code		string		
nTPART	The code for this indicator is nTPART			
denominator/value		number		
Training: total participants	Total number of people participating in training.			

1.1.3 Dimensions

Title	Description	Type	Format	Required
dimensions		object		
Dimen- sions	Dimensions uniquely identify a statistical observation, and can also be used to express disaggregated data.			
dimensions/periodStart		string	date	Required
Period start	When does the period covered by the observation start?			
dimensions/periodEnd		string	date	Required
Period end	When does the period covered by the observation end?			
dimensions/ geographicCoverage		object		
Geo- graphic cover- age	The geographic area covered by this observation. A location can be described by either a geometry (point location, line or polygon), or a gazetteer entry, or both.			
dimensions/ geographicCoverage/ description		[string]		
De- scrip- tion	A name or description of this location. This might include the name(s) of the location(s), or might provide a human readable description of the location to be covered. This description may be used in a user-interface.			
dimensions/ geographicCoverage/ geometry		[object]		
Geom- etry	We follow the GeoJSON standard to express basic location information, using latitude and longitude values in the WGS84 (EPSG:4326) projection. A point location can be identified by geocoding a delivery address. For concession licenses, or other contracts covering a polygon location which is not contained in a known gazetteer, polygon and multi-polygon can be used.			
dimensions/ geographicCoverage/ gazetteer		[object]		
Gazetteer	A gazetteer is a geographical index or directory. The specific gazetteer used should be specified in scheme, and one or more codes from that gazetteer used in identifier.			
dimensions/ geographicCoverage/uri		[string]		
URI	A URI to a further description of the location. This may be a human readable document with information on the location, or a machine-readable description of the location.			

1.1.4 Attributes

Title	Description	Type	Format	Required
attributes		object		
Attributes	Attributes provide descriptive information about an observation.			
attributes/source		string		
Source	A free text description of the source of this observation			
attributes/sourceType		string		
Source type	What type of source is this? Select one of ['estimate', 'farmerRecall', 'officialStatistics']			

1.1.5 Examples

JSON Representation

This data can be represented in JSON in the following structure.

```
{
  "metrics": [
    {
      "code": "pcWCT",
      "value": 0.3,
      "numerator": {
        "code": "nPWT",
        "value": 3
      },
      "denominator": {
        "code": "nTPART",
        "value": 10
      },
      "dimensions": {
        "periodStartDate": "2017-01-01",
        "periodEndDate": "2018-01-01",
        "geographicCoverage": {
          "description": "United Kingdom",
          "gazeteer": {
            "scheme": "geonames",
            "identifiers": [
              "2635167"
            ]
          }
        }
      }
    },
    {
      "attributes": {
        "source": "Survey",
        "sourceType": "estimate"
      }
    }
  ]
}
```

Tabular representation

This data can be represented in tabular form with the following structure.

code	value	num- er- a- tor/ code	num- er- a- tor/ value	de- nom- i- na- tor/ code	de- nom- i- na- tor/ value	di- men- sions/ period	di- men- sions/ period	dimen- sions/geog- raphical	dimen- sions/geog- raphical	dimen- sions/geog- raphical	at- tribute	at- tribute
pcWC	D.3	nPW	T3	nT- PART	10	2017- 01-01	2018- 01-01	United Kingdom	geonames	2635167	Sur- vey	esti- mate

Data entry form (Experimental)

We can generate example data entry forms using the JSON Schema.

This is a [static example](#)

CHAPTER 2

ToDo

- Automatically generate tabular representations of data
- Factor out dimensions and attributes into their own library