



IRIS

Indicator Reporting Information System

Monitoring, data and indicators

Final Workshop on Environment Statistics for the East African Community - Arusha, Tanzania, 23-27 October 2017

Erick Litswa, IRIS Deployment Manager, Science Division, UN Environment
Capacity Building for Indicator Reporting Information System (IRIS), 23th of October 2017

“4. The availability of high-quality, timely and disaggregated data is vital for evidence-based decision-making and to ensure accountability for implementation of the 2030 Agenda...”

—Report of the Secretary-General, Progress towards the Sustainable Development Goals, 2017

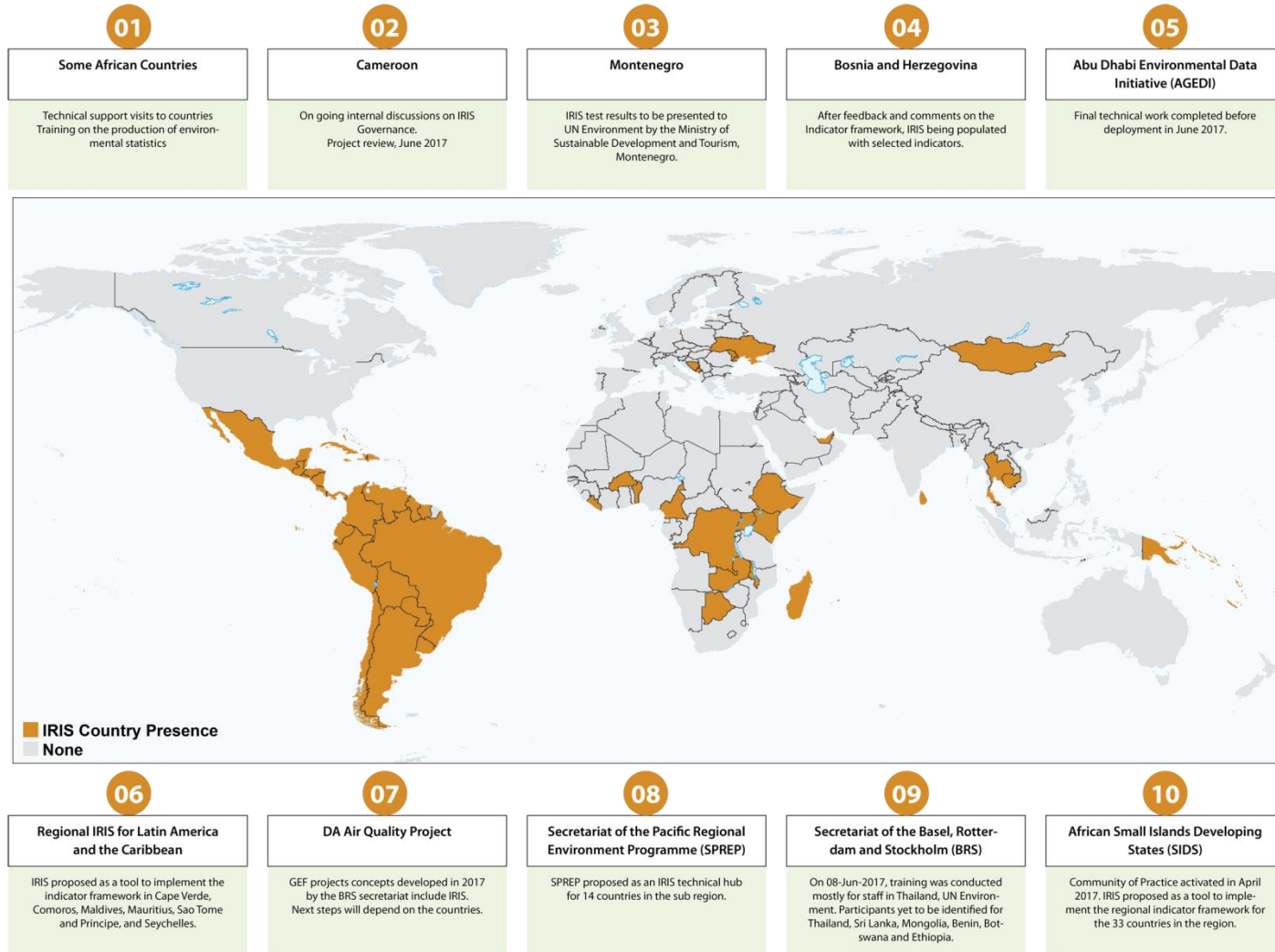
Presentation Format

- Introduction
- Data Challenge
- UN Environment's Response
- Demo
- Technical Road Map

Environment Live - a HUB connecting to worldwide data on the environment

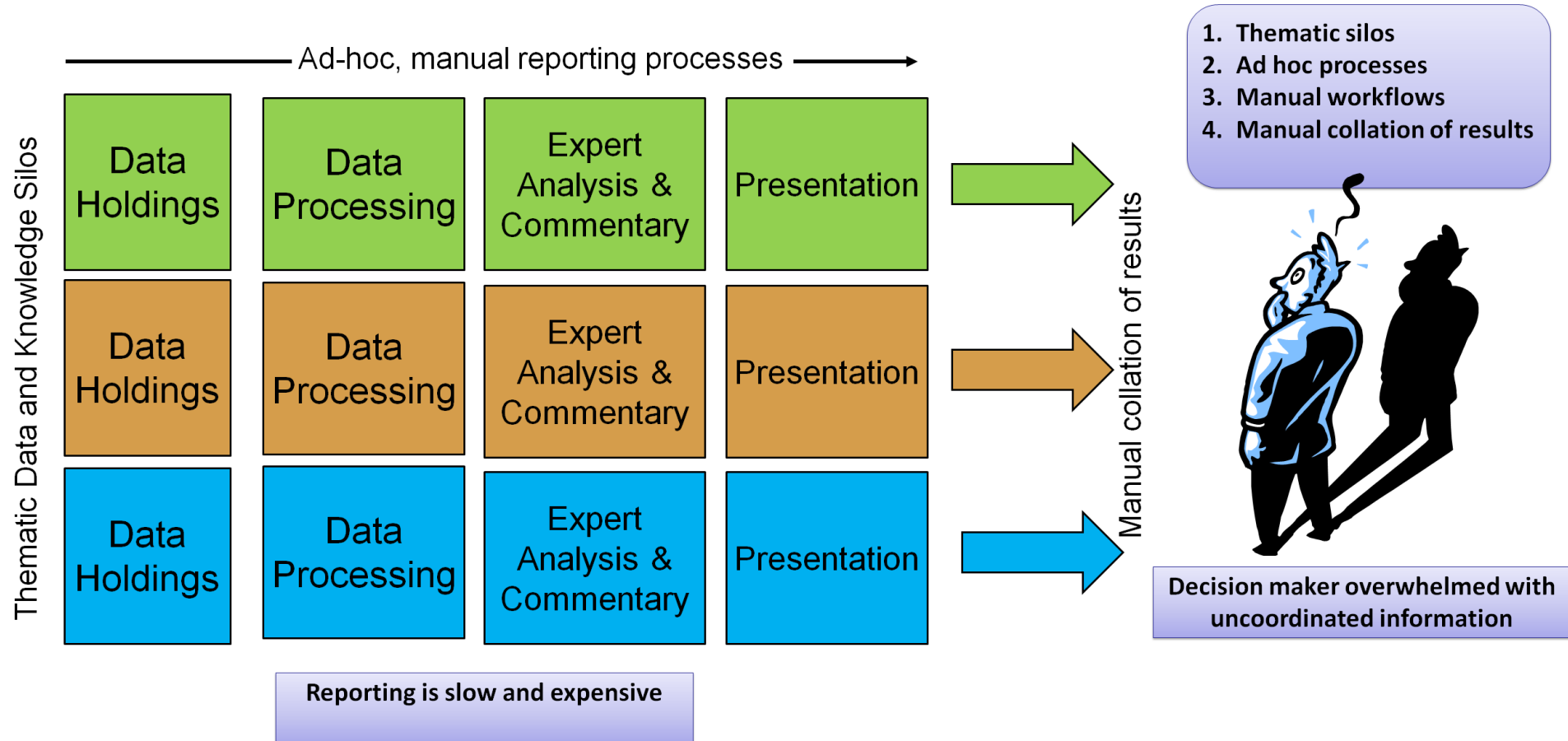


Worldwide Projects and Countries having an IRIS component



Data Challenge

What is the challenge?



UN Environment's Response

Where can you find data online?

The screenshot shows the Environment Live website interface. At the top left is the logo "environment live" with the tagline "Science and data for people". A navigation bar contains links: "Who we are | What we do | Data downloader | Mapping Tools | Geospatial Applications | Themes | Web Intelligence | OARE | Ontology | Publications | Multimedia | News and Stories | Contact us". Below this is a "Data and Statistics" menu with sub-items "Assessments", "World Data", and "Sustainable Development Goals". Other buttons include "Get Involved", "Log In", and a "Select Language" dropdown. A search bar is located below the navigation. A dark blue banner reads "LATEST: To see UNEP's project presence, [click here](#)". The main content area features four image-based categories: "Early Warning and Foresight" (a hand holding a globe), "Sustainable Development Goals and Statistics" (farmers in a field), "Global, Country and Regions Impact" (a world map), and "Impact on Citizens and People" (people cleaning a beach). The footer contains the UN Environment logo and copyright information: "Copyright © UN Environment | Terms of Use | Site Map | Feedback".

What data can you find on Environment Live about a selected Country?

You will...

1. Select "Global, Country and Regions Impact"
2. Select a country [Tanzania, Uganda, Kenya, Rwanda, Burundi, South Sudan, etc.]
3. Select "Data and Maps" Picture
4. Select Data Tab

What data can you find on Environment Live about a selected Country?

Country Profile Maps and Data Sustainable Development Goals Dashboard Legal Instruments Resources Data Downloader Web Intelligence **United Republic of Tanzania**

Select Country/Region/Global

United Republic of Tanzania

Maps ▾ **Data** Country Data

Access to improved water sources

Data Source: [MDG ,MDG Indicators Database](#)

Year	% of population
1990	54.0
1991	54.0
1992	54.0
1993	54.0
1994	54.0
1995	54.0
1996	54.0
1997	54.0
1998	54.0
1999	54.0
2000	54.0
2001	54.0
2002	54.0
2003	55.0
2004	55.0
2005	55.0
2006	55.0
2007	55.0
2008	55.0
2009	55.0
2010	55.0
2011	55.0
2012	56.0
2013	56.0
2014	56.0
2015	56.0

Legend (drag to move box):
— United Republic of Tanzania

This data series was updated from the original source on: 2015

Definition:

Analyze one indicator across countries

Select countries:

Select indicator:

Select year(s):
from: to: (optional)

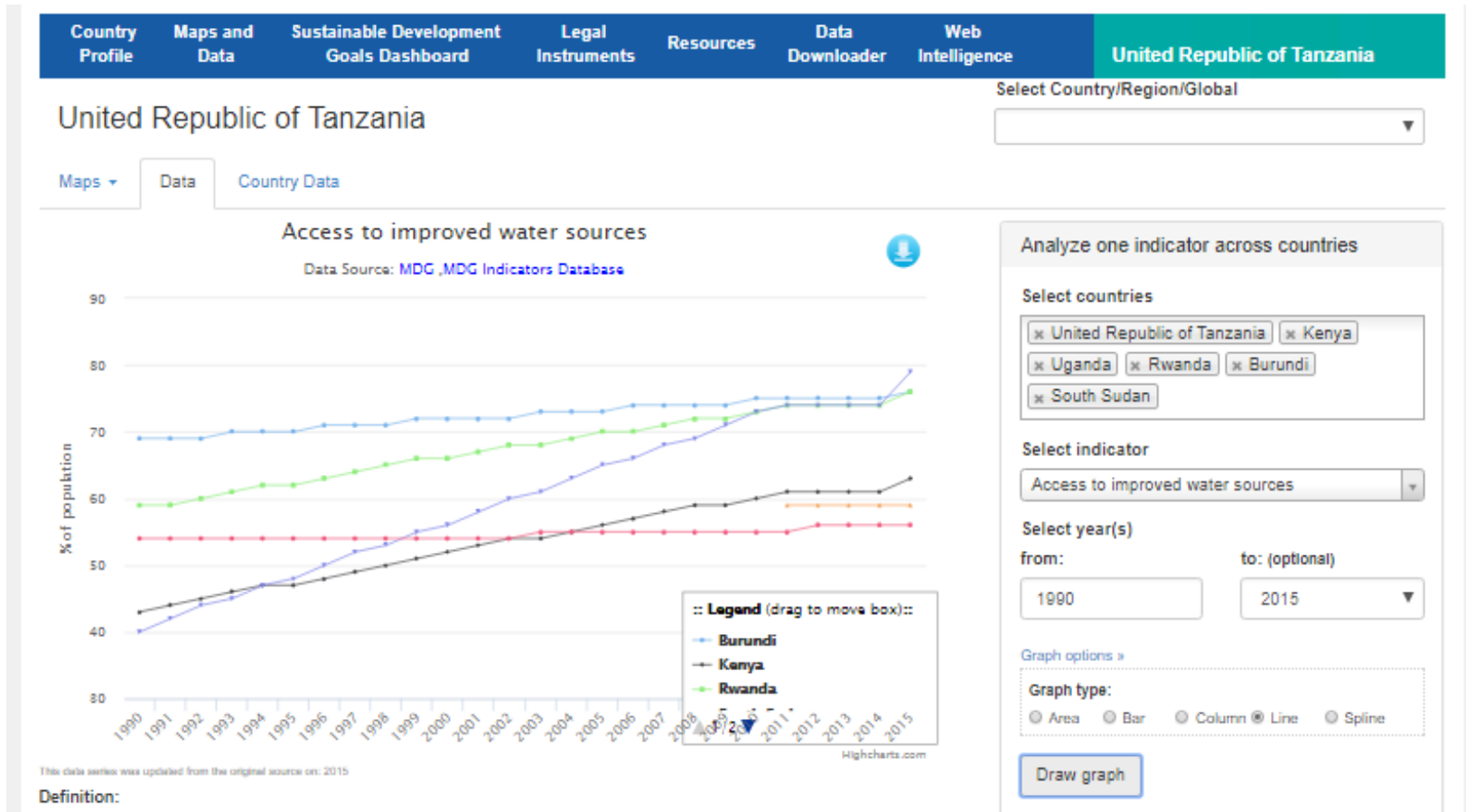
Graph options »
Graph type: Area Bar Column Line Spline

How does the selected country compare with others on the selected indicator?

You will...

1. Select countries required
2. Select "Draw Graph"

How does the selected country compare with others on the selected indicator?



How do i get that data?

You will...

1. Select Download Icon
2. Select appropriate format
3. Provide appropriate name and path
4. Select save
5. Open the file

How do i get that data?

Country Profile
Maps and Data
Sustainable Development Goals Dashboard
Legal Instruments
Resources
Data Downloader
Web Intelligence
United Republic of Tanzania

United Republic of Tanzania Select Country/Region/Global

Maps ▾ Data Country Data

Access to improved water sources

Data Source: MDG ,MDG Indicators Database

Download PNG image
 Download JPEG image
 Download PDF document
 Download SVG vector image
Download CSV

:: Legend (drag to move box)::

—●— Burundi

—●— Kenya

—●— Rwanda

Year	Burundi (%)	Kenya (%)	Rwanda (%)
1990	69	43	59
1995	70	47	62
2000	72	52	66
2005	73	55	70
2010	74	59	72
2015	74	63	73

This data series was updated from the original source on: 2015

Definition:

Analyze one indicator across countries

Select countries

✕ United Republic of Tanzania
✕ Kenya
✕ Uganda
✕ Rwanda
✕ Burundi
✕ South Sudan

Select indicator

Access to improved water sources

Select year(s)

from: to: (optional)

Graph options >

Graph type:

Area
 Bar
 Column
 Line
 Spline

Draw graph

How do i get that data?

A	B	C	D	E	F	G	H	I
	Burundi	Kenya	Rwanda	South Sud	Uganda	United Republic of Tanzania		
1990	69	43	59		40	54		
1991	69	44	59		42	54		
1992	69	45	60		44	54		
1993	70	46	61		45	54		
1994	70	47	62		47	54		
1995	70	47	62		48	54		
1996	71	48	63		50	54		
1997	71	49	64		52	54		
1998	71	50	65		53	54		
1999	72	51	66		55	54		
2000	72	52	66		56	54		
2001	72	53	67		58	54		
2002	72	54	68		60	54		
2003	73	54	68		61	55		
2004	73	55	69		63	55		
2005	73	56	70		65	55		
2006	74	57	70		66	55		
2007	74	58	71		68	55		

What types of data are available on Environment Live?

From the selected Country home page, you will...

1. Select "Legal Instruments "

What types of data are available on Environment Live?




Country Profile Maps and Data Sustainable Development Goals Dashboard Legal Instruments Resources Data Downloader Web Intelligence **United Republic of Tanzania**

Select Country/Region/Global


United Republic of Tanzania

Legal Instruments

InforMEA Reporting obligations

 **InforMEA** Explore InforMEA  

Home » Parties » United Republic of Tanzania

 **United Republic of Tanzania** View another party

Map and sites

- Party status 17
- Action plans 4
- National reports 82
- Legislation 342
- Court Decisions 8
- Summary
- View on UNEPLive

Map of sites Ramsar sites 4 WHC sites 7

Legend

What is reporting burden for the selected country?

From the selected Country home page, you will...

1. Select "Legal Instruments"
2. Select "Reporting Obligations" Tab"

What is reporting burden for the selected country?

Country Profile
Maps and Data
Sustainable Development Goals Dashboard
Legal Instruments
Resources
Data Downloader
Web Intelligence
United Republic of Tanzania

Select Country/Region/Global

United Republic of Tanzania

Legal Instruments

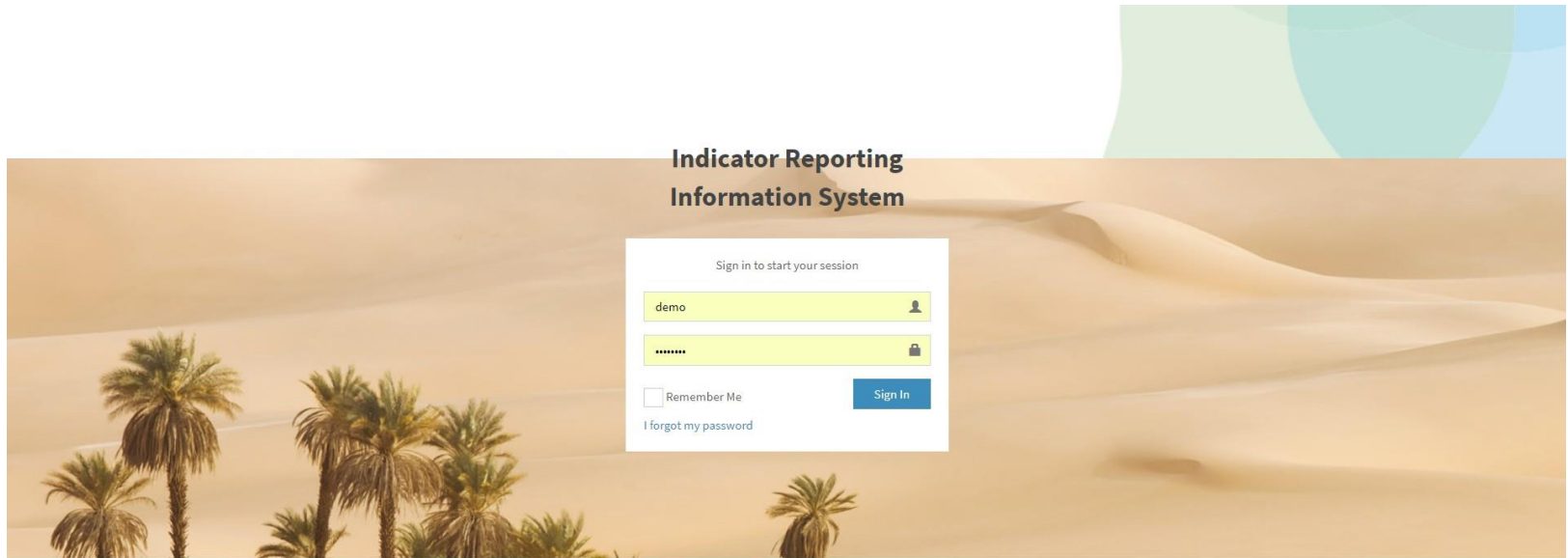
Show entries Search:

Obligation	Legislative Instrument	Report To	Reporting Format	Deadline
DDT Registration	Stockholm Convention on Persistent Organic Pollutants (POPs)	Secretariat of the Stockholm Convention	DDT Questionnaires	2016-12-31
Implementation plan	Stockholm Convention on Persistent Organic Pollutants (POPs)	Secretariat of the Stockholm Convention	Guidance for Developing a National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants	
National Report	Stockholm Convention on Persistent Organic Pollutants (POPs)	Secretariat of the Stockholm Convention	Electronic Reporting System of the Stockholm Convention (SC-ER S)	2018-12-31
National Report	Convention on the Conservation of Migratory Species of Wild Animals	UNEP-CMS Secretariat	CMS Family Online Reporting System	2017-04-30
National report on the implementation of the Convention on Biological Diversity	Convention on Biological Diversity	Convention on Biological Diversity	National Reports Guidelines	2017-03-31
Thematic reports	Convention on Biological Diversity	Convention on Biological Diversity	Thematic Reports Guidelines	
Yearly report to the Basel Convention	Basel Convention on the control of transboundary movements of hazardous wastes and their disposal	Basel Convention	Electronic Reporting System of the Basel Convention	2015-12-31
Obligation	Legislative Instrument	Report To	Reporting Format	Deadline

Showing 1 to 7 of 7 entries
Previous Next

Demo

IRIS-Home



To request IRIS instance



IRIS-Learning Resources

 Help ▼

User Guide(updated version being developed)

Bibliography

IRIS Terminology

About AGEDI

What is IRIS?

IRIS-Data Sources

Data Sources

Any type of data storage mechanism that can contain MULTIPLE tabular data structures. Examples include: Relational Database Management System (RDBMS) and Spreadsheet workbook. A Data source is linked to one or (usually) many Data Sets.

Add datasource

Datasource type

Excel

Upload Excel file

Choose File

Envir....ods

Upload

- API
- Database
- Excel
- IRIS Report

IRIS-Datasets

Datasets

A SINGLE tabular data structure i.e. fields (columns) and records (rows). Examples include

- i. RDBMS Table or View
- ii. Spreadsheet Worksheet.

A Data set is linked to one Data Source.



[Home](#) > [Datasource](#) > [edit_datatable](#)

Select Language | ▼

Edit dataset : Multistation Table

Datasource



MultiStationTest2 ▼

Name	<input type="text" value="Multistation Table"/>		Contributor	<input type="text"/>	
Coverage	<input type="text"/>		Creator	<input type="text"/>	
Date	<input type="text"/>		Description	<input type="text"/>	
Format	<input type="text"/>		Identifier	<input type="text"/>	
Language	<input type="text"/>		Publisher	<input type="text"/>	
Relation	<input type="text"/>		Rights	<input type="text"/>	
Source	<input type="text"/>		Subject	<input type="text"/>	
Title	<input type="text"/>		Type	<input type="text"/>	

Update

IRIS-Indicator 1/6

Index	A metric calculated from a set of aggregated or weighted parameters or indicators (modified from OECD 2003)
Indicator	A metric derived from (one or more) Parameters, which points to, provides information about, describes the state of a phenomenon/environment/area, with a significance extending beyond that directly associated with a parameter value (modified from OECD 2003)
Indicator Implementation	<p>A methodological specification for</p> <ol style="list-style-type: none">1. calculating the value and2. visualising an Indicator Instance <p>The Indicator Implementation also includes the specification of Supporting Information that the inform the subject matter expert's narrative for an Indicator Instance</p> <p>An Indicator Implementation comprises:</p> <ol style="list-style-type: none">1. set of (one or more) Parameters and/or Statistics2. calculation method (if any) used to calculate an Indicator Instance from the parameters3. Specifies how an Indicator Instance is visualised <p>One Indicator may be associated with more than one Indicator Implementation.</p>
Indicator Instance	The value of an Indicator for a specified geography and period of time.

 **Indicator** [Home](#) > [Indicatordefinition](#) > [edit](#)  Select Language ▼

Name



Indicator Type

Simple Indicator



Aggregated Indicator



Composite Indicator



Index



IRIS-Indicator 2/6

Indicator family


Theme Well Being  



Sub Theme Abundance of Selected Key Species  

Brief Description Test  

Unit of measurement unitless  

Indicator Developers

Sponsor/Proponent Test 

Contributing Organizations: Test  

Policy Relevance

DPSIR 

Driving force 







Pressure 

State 

Impact 


Response 

IRIS-Indicator 3/6

-- Please Select --				
-- Please Select --				
-- Please Select --				
-- Please Select --				
-- Please Select --				
-- Please Select --				

Policy/Convention/Obligation Goal Target Indicator

-- Please Select --



Linkages to Other Indicators



Indicator: -- Please Select --



















Linkage Description:





IRIS-Indicator – 4/6

Reference Levels

Baseline 	Description	<input type="text" value="baseline"/>	
	Value	<input type="text" value="30"/>	
Benchmark 	Description	<input type="text" value="Benchmark"/>	
	Value	<input type="text" value="60"/>	
Threshold 	Description	<input type="text" value="Threshold"/>	
	Value	<input type="text" value="90"/>	
Soft Target 	Description	<input type="text" value="ST"/>	
	Value	<input type="text" value="120"/>	
Hard Target 	Description	<input type="text" value="HT"/>	
	Value	<input type="text" value="150"/>	
International Target/Standard 	Description	<input type="text" value="IT"/>	
	Value	<input type="text" value="180"/>	

IRIS-Indicator 5/6

Indicator value colour coding

Title	Low(>=)	Upper(<)	Color	
Bad	0	30	#ff0000	
Average	30	60	#842626	<input type="checkbox"/>
Good	60	90	#3ab2c4	<input type="checkbox"/>
Better	90	120	#78d69c	<input type="checkbox"/>
Best	120	150	#008000	<input type="checkbox"/>

IRIS-Indicator 6/6

Implementation

Concepts and Scientific Basis



Status of the Methodology:



Interpretation:



Limitation of the Indicator:



Alternative definitions/indicators:



Data

Data Needed to Compile the Indicator:



Data Availability and Sources:



Data References:



Save

IRIS-Parameter

Parameter	<p>A property calculated from measurement or observation (modified from OECD 2003).</p> <p>IRIS recognises two sub-types of Parameter (described below).</p> <p>The sub-type used depends on how the underlying data custodians expose the data.</p>
Published Parameter(aka Statistic)	<p>A Parameter which is published by a competent authority – typically considered to be the “official” value recognised by an Administration and the basis for cross-sectoral consistency. IRIS reads statistics as numeric values and performs no further processing. Examples may be Population or GDP etc</p>
Calculated Parameter	<p>A Parameter which is calculated by IRIS from a series of (one or more) measurements or observations. This parameter type involves a calculation/data-processing step which is independent of Indicator Implementation; its calculation can be considered data pre-processing.</p>
Report Specification	<p>Specifies the purpose, names the content (specific indicators), frequency of production and intended recipient for a report</p>
Report Template	<p>Defines the placement and presentation of the elements of a report – as listed in the Report Specification. It specifies the specific Indicator Implementation to be used.</p>
Supporting Information	<p>A series (typically a time series) of values for a Parameter. Unlike an Indicator Supporting Information does not have a significance extending beyond that directly associated with a parameter value</p>

Statistic Parameter

[Home](#) > [Parameter](#) > [add_statistic_parameter](#)

 Select Language | ▼

Report Period: Date of Report Fixed Date

Datasource:

[Get Parameter](#)

IRIS-Report Template

Report Template

Defines the placement and presentation of the elements of a report – as listed in the Report Specification. It specifies the specific Indicator Implementation to be used.

Report Template

[Home](#) > [Reporttemplate](#) > [edit](#)

 [Select Language](#) ▼

Edit Template

Instrument:

--Please Select--



Report Obligation:

--Please Select--



Name of Template:

EAD Monthly Air Quality



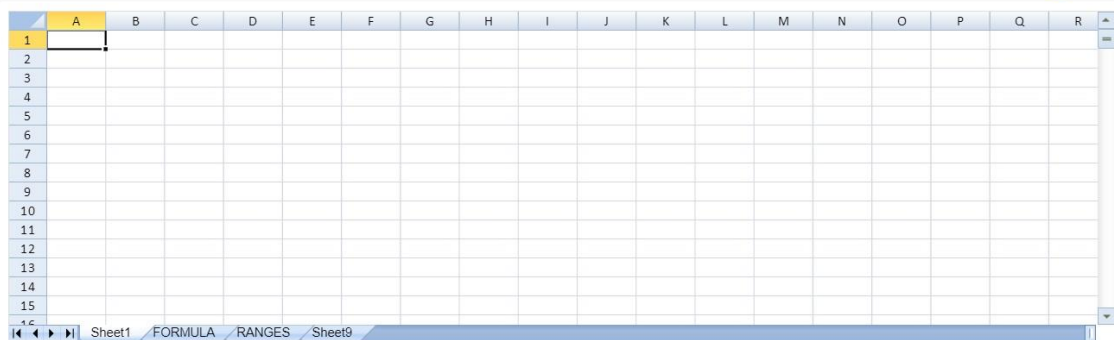
Save

IRIS-Supporting Information

Supporting Information A series (typically a time series) of values for a Parameter. Unlike an Indicator Supporting Information does not have a significance extending beyond that directly associated with a parameter value

Supporting Info Home > SupportingInfo > edit Select Language

Name: NOx Supporting Aid
Description: Nox



Sheet1 FORMULA RANGES Sheet9

Add blank sheet Add Spatial Sheet Delete: Selected Sheet

Datasource: --select datasource-- Datatable: --select datatable-- Add as data sheet

Parameters: --select parameter-- Add as data sheet

Historical values: -- Please Select-- Add as data sheet

IRIS-Shared Knowledge Base

Dashboard

Dashboard

Edit

Add

Add widget

Save active dashboard state

Shared Indicator Definitions

+ Add Indicator Definition

Shared Indicator Instances

+ Add report template

Shared Report Templates



How do I get more info

- Email contact: EnvironmentLive@unep.org

Technical Road Map

- Complete Technical Work – Q4, 2017
- Integration of IRIS with FDES (2013) – Q1, 2018
- SDMX Support – Q2, 2018

Indicators and Indices - 1/18

Framework for Development of Environmental Statistics (FDES)

Environmental Resources and their Use		
Sub-Component	Topic	Indicator
Water Resources	Inland water stocks	Groundwater stocks
	Inflow of water to inland water resources	Precipitation
Land	Land use	Area of land under irrigation



Thank you

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