

**12<sup>th</sup> World Telecommunication/ICT Indicators Symposium  
(WTIS-14)**

**Tbilisi, Georgia, 24-26 November 2014**



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***Presentation***

**Document C/20-E  
25 November 2014**

**English**

**SOURCE:** World Bank

**TITLE:** Open Data: World Bank's Experience



**Open Data**  
World Bank's Experience



**WORLD BANK GROUP** World Telecommunication  
ICT Indicators Symposium  
Tbilisi, Georgia  
November 25, 2014



**OPEN DATA**  
data.worldbank.org | @worldbankdata

## Agenda

- Introduction
- Open Data at the World Bank
- Quick Tour
- Data Quality & Link to Big Data
- The World Bank's support to a Country's Open Data and the future of data

## What is Open Data, Why do people release it?

"Open Data" has a very precise meaning. According to the [Open Definition](#) (*italics added*):

a piece of data or content is open if **anyone** is **free to use, reuse, and redistribute it**—subject only, at most, to the requirement to attribute (*provide proper citations*) and/or share-alike (*redistribute under the same terms and conditions*).

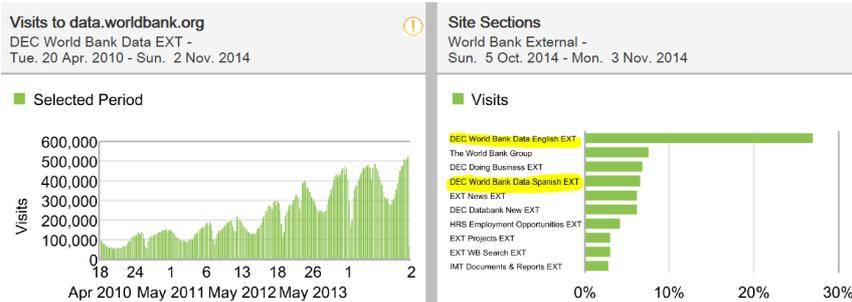
- ❖ For data to be "open" must satisfy two criteria:
  - 1) Being "**technically**" open – findable and available in standard, editable electronic file formats such as CSV, XML, JSON (JavaScript Object Notation) or other machine readable forms via APIs
  - 2) Being "**legally**" open – explicitly released under a license that permits free use, re-use, and re-distribution (e.g. Creative Commons CC-BY). The World Bank's data terms of use provides the legal framework for data opened by the World Bank.
- ❖ The 3 most common reasons for releasing open data are:
  - 1) Transparency – allowing other to monitor and hold data publishers to account;
  - 2) Efficiency and Innovation – opening up data releases potentially hidden value, others can come up with new ideas;
  - 3) Participation and engagement – creating an ongoing dialog and relationship

## How did Open Data start at the World Bank?

- In April 2010, "data.worldbank.org" launched featuring data from the World Development Indicators
- The Open Data Initiatives is evolving effort; now an institution-wide effort bringing together with the shared goal of making the data available and accessible.

## Impacts

- ❖ Significant number of access to the data site “data.worldbank.org”
- ❖ Over 54 million visits since April 2010
- ❖ Over 1/3 of all traffic to the World Bank’s website goes to the data site
- ❖ The data site is #1 reason people visit the World Bank’s websites
- ❖ The World Bank has seen a 10-fold increase in the use of it’s data



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## Quick Tour

<http://data.worldbank.org>

**Data**

By Country | By Topic | Indicators | Data Catalog | Microdata | Initiatives | What’s New | Support | Products

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**World Bank Open Data:** free and open access to data about development in countries around the globe.

2013 Global and Regional Estimates for Child Malnutrition Released  
Posted on 19 Nov 2014

“A World That Counts” - The Data Revolution Report is Out  
Haishan Fu | Posted on 7 Nov 2014

Kenya’s re-based GDP: myths, facts, and the consequences  
Johan Mistiaen, John Randa & Apurva Sanghi | Posted on 13 Nov 2014

[View all news](#) | [View all blogs](#)

**Find an indicator**

GNI per capita, Atlas method (current US\$)

**BROWSE DATA**

[By Country](#) | [By Topic](#)

[Indicators](#) | [Use our Data](#)

**FEATURED**

World Development Indicators  
Open Finances  
Projects & Operations  
Open Government Data Toolkit

**RECENTLY UPDATED**

IDA Results Measurement System  
13 Nov, 2014  
Gender Statistics  
07 Nov, 2014  
[View data catalog](#)

**The World at a Glance**

**Economy & Growth**

GDP (current US\$)

**\$74.91 trillion** 2013

**Health**

Life expectancy at birth, total (years)

**71** 2012

## By Country

### Data

By Country | By Topic | Indicators | Data Catalog | Microdata | Initiatives | What's New | Support | Products

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#### India

South Asia	GDP (current US\$)	\$1.877 trillion 2013
Income level	Population, total	1.252 billion 2013
Lower middle income		

**BROWSE**

- World Development Indicators
- Global Economic Prospects - Forecasts
- Projects & Operations
- Finances
- Surveys
- Climate

[Country Partnership Strategy for India \(FY2015 - 17\) Click here >>](#)

#### World Development Indicators

Graph, map and compare more than 1,000 time series indicators from the World Development Indicators and more than 5,000 indicators from other collections such as Gender Statistics, African Development Indicators, and Education Statistics.

[DATABANK](#) [DOWNLOAD DATA](#)

##### School enrollment, primary (% gross)

113% 2011

##### CO2 emissions (metric tons per capita)

1.7 2010

**ROUP**

## By Country

### Global Economic Prospects - Forecasts

Global Economic Prospects examines trends for the world economy and how they affect developing countries. The report includes country-specific three-year forecasts for major macroeconomic indicators, including commodity and financial markets.

[FORECASTS & ANALYSIS](#) [DATA](#)

##### Annual GDP Growth (%)

##### Current Account Balance, %GDP

#### Projects & Operations

Search, browse and map more than 10,000 projects from 1947 to the present.

[PROJECTS & OPERATIONS](#)

##### Project Map - India

##### IBRD/IDA Operations Approved by Fiscal Year

\$5.109 billion FY2014

##### New and Supplemental Projects by Fiscal Year

17 FY2014

<http://datacatalog.worldbank.org/>

## Data

By Country | By Topic | Indicators | Data Catalog | Microdata | Initiatives | What's New | Support | Products

### Data Catalog

The World Bank's Open Data initiative is intended to provide all users with access to World Bank data, according to the Open Data Terms of Use. The data catalog is a listing of available World Bank datasets, including databases, pre-formatted tables, reports, and other resources.

Access to Information | Download Data Catalog | Data Catalog API

200 records found

REFINE BY:

- Topics
- Economy Coverage
- Periodicity
- Access Options

Sort By: Most Popular | Alphabetical | Last Updated

#### World Development Indicators (WDI)

Recently updated

The primary World Bank collection of development indicators, compiled from officially-recognized international sources. It presents the most current and accurate global development data available, and includes national, regional and global estimates.

Type: Time series | Periodicity: Annual | Last Updated: 06-Nov-2014 | See More +

#### GDP ranking (GDP)

Gross domestic product ranking table.

Type: Time series | Periodicity: Annual | Last Updated: 24-Sep-2014 | See More +

#### Africa Development Indicators (ADI)

The primary World Bank collection of development indicators on Africa, compiled from officially-recognized international sources. It presents the most current and accurate global development data available, and includes national, regional and global estimates.

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## World Development Indicators Online Tables

THE WORLD BANK | Working for a World Free of Poverty

### 2014 People | 2.1 World Development Indicators: Population dynamics

Show Metadata Links

Data > Data Catalog > World Development Indicators > Tables > 2.1

	Population			Average annual population growth %		Population age composition			Dependency ratio		Crude death rate	Crude birth rate
	millions			2000-12	2012-25	0-14	15-64	65+	young	old	per 1,000 people	per 1,000 people
	2000	2012	2025			%	%	%	% of working-age population	% of working-age population		
Vietnam	77.6	88.8	97.0	1	1	23	71	7	32	9	6	16
Virgin Islands (U.S.)	0.1	0.1	0.1	0	0	21	64	15	32	24	8	11
West Bank and Gaza	2.9	4.0	5.5	3	2	41	56	3	72	5	3	31
Yemen, Rep.	17.5	23.9	31.3	3	2	41	56	3	72	5	7	31
Zambia	10.1	14.1	21.4	3	3	47	51	3	92	5	11	43
Zimbabwe	12.5	13.7	18.7	1	2	40	56	4	72	7	10	32
<b>World</b>	<b>6,102.1</b>	<b>7,043.9</b>	<b>8,038.1</b>	<b>1</b>	<b>1</b>	<b>26</b>	<b>66</b>	<b>8</b>	<b>40</b>	<b>12</b>	<b>8</b>	<b>19</b>
<b>Low income</b>	648.2	846.5	1,113.2	2	2	39	57	4	69	7	9	32
<b>Middle income</b>	4,243.3	4,897.6	5,567.9	1	1	27	67	6	40	10	8	19
<b>Lower middle income</b>	2,077.9	2,507.0	2,970.9	2	1	31	63	5	50	8	8	23
<b>Upper middle income</b>	2,165.4	2,390.6	2,596.9	1	1	22	70	8	31	11	7	15
<b>Low &amp; middle income</b>	4,891.5	5,744.1	6,681.1	1	1	29	65	6	44	9	8	21
<b>East Asia &amp; Pacific</b>	1,912.2	1,991.6	2,151.4	1	1	21	71	8	30	11	7	14
<b>Europe &amp; Central Asia</b>	258.5	270.8	283.8	0	0	22	68	10	32	15	9	16
<b>Latin America &amp; Caribbean</b>	500.3	581.7	671.7	1	1	22	68	10	32	15	9	16
<b>Middle East &amp; North Africa</b>	276.6	339.1	411.6	1	1	22	68	10	32	15	9	16
<b>South Asia</b>	1,382.2	1,649.2	1,916.2	1	1	22	68	10	32	15	9	16
<b>Sub-Saharan Africa</b>	663.7	911.5	1,262.7	3	3	43	54	3	80	6	11	38
<b>High income</b>	1,210.6	1,299.8	1,357.0	1	0	17	67	16	25	23	9	12
<b>Euro area</b>	317.6	333.3	339.8	0	0	15	66	19	23	29	10	10

http://wdi.worldbank.org/tables

You are here > Data > Data Catalog > World Development Indicators > Tables > 2.1

Help/Feedback

## Data Quality

### Legal Framework for data opened by the World Bank

- ❖ **The Open Data Terms of Use** (<http://data.worldbank.org/summary-terms-of-use>)

**Terms of Use** SHARE

- You are free to copy, distribute, adapt, display or include the data in other products for commercial and noncommercial purposes at no cost subject to certain limitations summarized below.
- You must include attribution for the data you use in the manner indicated in the metadata included with the data.
- You must not claim or imply that The World Bank endorses your use of the data by or use The World Bank's logo(s) or trademark(s) in conjunction with such use.
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- The World Bank makes no warranties with respect to the data and you agree The World Bank shall not be liable to you in connection with your use of the data.

This is only a summary of the Terms of Use for Datasets Listed in The World Bank Data Catalogue. Please read the actual agreement that controls your use of the Datasets, which is available here: [Terms of use for datasets](#). Also see [World Bank Terms and Conditions](#).

- ❖ **Access to Information Policy**



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## Link to Big Data

<http://data.worldbank.org/developers/>

**Data**

By Country	By Topic	Indicators	Data Catalog	Microdata		Initiatives	What's New	Support	Products
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### For Developers

**About the API**

The World Bank currently has three different APIs to provide access to different datasets: one for Indicators (or time series data), one for Projects (or data on the World Bank's operations), and one for the World Bank financial data (World Bank Finances API). All three APIs implement RESTful interfaces to allow users to perform queries of available data using selection parameters. For the Indicators API, XML and JSON representations are available; for the Projects API, Atom representation is also available; for the World Bank Finances API, XML, JSON and RDF representations are available.

The API Overview page describes how to query the Indicators API, demonstrate specific queries and show expected results, and give several examples. Explore the Projects API page allows users to pick different options to see the corresponding API request and response format. Details on the API used for World Bank Finances can be found on the Open Data API site.

**About the Data**

The World Bank Indicators API lets you programmatically access more than 8,000 indicators and query the data in several ways, using parameters to specify your request. Many data series date

**For Developers**

- API Documentation
- API Sources
- App Competitions
- Application Showcase
- Apps for Development Competition
- Data Catalog API
- Development Best Practices
- Widgets
- Climate Data API
- World Bank Finances

[Join the Discussion >>](#)

## Link to other applications

Data

By Country | By Topic | Indicators | Data Catalog | Microdata | Initiatives | What's New | Support | Products

This page is in: [English](#)

### Application Showcase

The World Bank's new Open Data Initiative, launched April 20, 2010, made key data sets including the World Development Indicators, Africa Development Indicators, Global Finance Indicators, and Doing Business Indicators free for all.

If you have an application that you'd like featured here, let us know.

Below are applications or libraries written using World Bank data.



Google's Public Data Explorer uses Google tools, including motion charts, to visualize and explore data from the World Bank and many other providers. [more](#)



Windows Azure Marketplace enables users to access rich premium and public domain data from leading providers like World Bank using tools like Excel and PowerPivot. [more](#)



The wbiapi and wbquery Drupal modules provide request handling and views integration for the World Bank Data API. These modules make it easy to pull in data from the API and display it in custom "views". [more](#)



Geo.me Solutions has created a web application that uses Google's Visualization API to display indicators from the Bank's WDI dataset on a world map. [more](#)



wbiopendata allows Stata users to download over 3,000 series of indicators from the World Bank databases. This module allows users live access to the databases.

#### For Developers

- [API Documentation](#)
- [API Sources](#)
- [App Competitions](#)
- [Application Showcase](#)
- [Windows Azure Marketplace](#)
- [Drupal Integration Module](#)
- [Geo.me Data Mapping](#)
- [wbiopendata: Stata module to access World Bank databases](#)
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- [Widgets](#)
- [Climate Data API](#)
- [World Bank Finances](#)

Join the Discussion »

API Query Builder »

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## Example: Google Public Data Explorer

Google

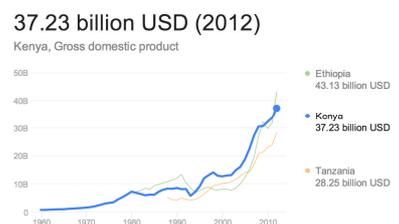
+ Tariq | Share

Web | News | Images | Maps | Shopping | More | Search tools

About 12,900,000 results (0.37 seconds)

### 37.23 billion USD (2012)

Kenya, Gross domestic product



Explore more

Sources include: World Bank

[Kenya Home - World Bank](http://www.worldbank.org/en/country/kenya)

Access Kenya's economic data, statistics, project information, development research from ... GDP, \$40.70 billion, 2012 ... Kenya's Trendy Jewelry Goes Global.




### Kenya

Country

Kenya, officially the Republic of Kenya, is a country in the African Great Lakes region of East Africa. Its capital and largest city is Nairobi. [Wikipedia](#)

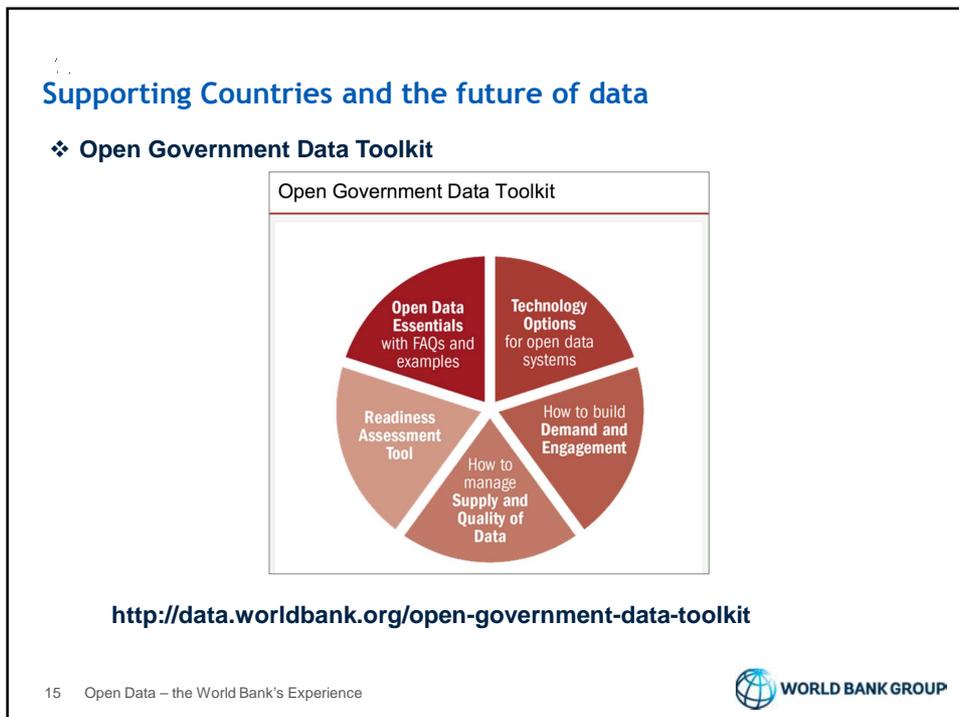
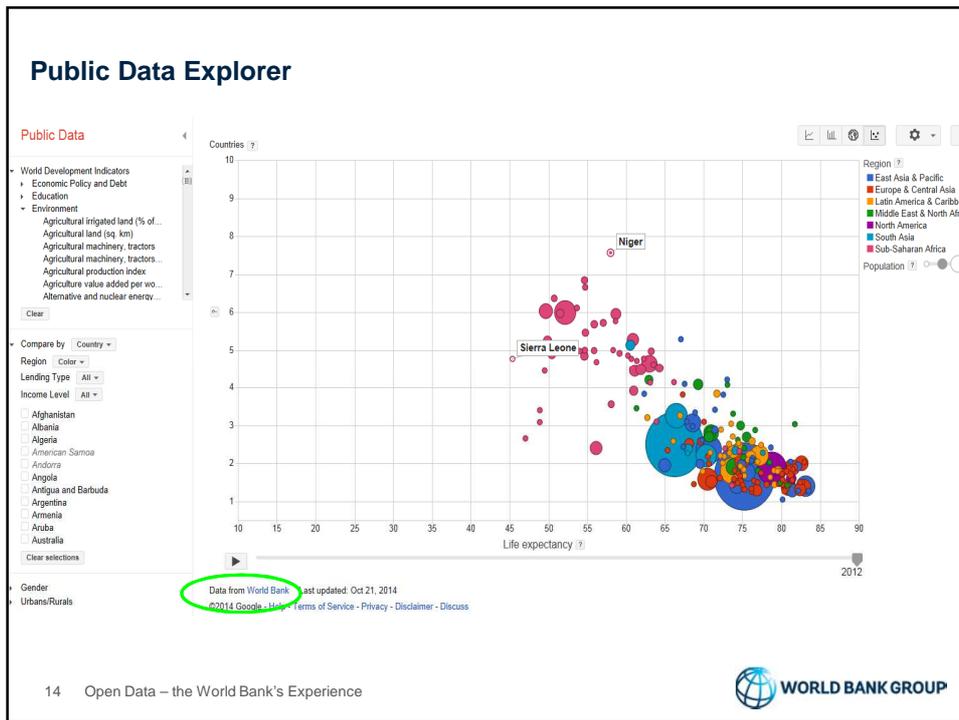
#### Related statistics

Population	43.18 million (2012)
GDP per capita	862.23 USD (2012)
Gross national income	76.05 billion PPP dollars (2012)

Gross domestic product elsewhere

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## ❖ Example of Open Data Scorecard

Leadership	Green	Commitment at top; Commitment and Awareness at all Ministries/agencies level
Policy	Yellow	A progressive FoIP exists, but implemented inconsistently across agencies. Harmonization of implementation following Open Data principles needed
Institutions	Green	Inter-agency mechanism for Open Gov exists; expand for Open Data?
Data	Yellow	Early-movers have been identified. High-value data available in e-format but not published yet in such format. Still lots of paper information across ministries/agencies
Demand	Red	Weak demand outside government has been identified. Capacities needed particularly in media, CSOs, and ICT community
Data Ecosystem	Red	Innovation is not strongly supported. Advocacy & Capacities needed
Finance	Yellow	A specific budget for OD must be allocated, but existing funding exists for the whole e-gov framework
Infrastructure	Yellow	Strong inter-gov infrastructure. Very weak external infrastructure, very low ICT usage at the country level

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# Thank you

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