

OPEN DATA IN DEVELOPMENT – WHAT AND HOW #DATA4IMPACT

Workshop: Open Data Solutions for Rural Development and Inclusive Growth in Andhra Pradesh and Telangana

Hotel Haritha Plaza, Begumpet, Hyderabad



WORLD BANK GROUP

World Bank Team (Oleg Petrov,
Prasanna Lal Das, Saki Kumagai,
and Shashank Ojha)

September 4, 2014

Agenda

1. **Open Data and World Bank** by Oleg Petrov
2. **Open Data in Agriculture** by Prasanna Lal Das
3. **Improving Results through Open Data Driven Solutions & Citizen Engagement** by Saki Kumagai
4. **Open Data Initiative in India** by Dr. Shashank Ojha

1. OPEN DATA & WORLD BANK

By Oleg Petrov



What is Open Data?



1. Technically open: Available in a machine-readable standard format
2. Legally open: Explicitly licensed in a way that permits commercial and non-commercial use and re-use without restrictions

Open = Global Phenomenon



> 50 countries > 250 governments

Why Open Data? Sky is the Limit!

Transformational Platform for Smarter Development and Economic Growth



[Open Data is] going to help launch more businesses... It's going to help more entrepreneurs come up with products and services that we haven't even imagine yet.



President Barack Obama



“Greater transparency will enable the public to hold politicians and public bodies to account”



“Public information does not belong to Government, it belongs to the public”

Neelie Kroes: Data is the new gold!

Wednesday, December 14, 2011 // Blog



On December, 12 2011 Neelie Kroes (Vice-President of the European Commission) gave a speech about the Open Data Strategy of the EU. I'm not going to repeat the whole speech, you can read a transcript [here](#) but I must say that I heard a lot of encouraging statements in it!

World Bank Open Data Initiative



OPEN DATA

data.worldbank.org

The World Bank's Open Data Initiative, which was launched in April 2010, provides free, open, and easy access to development data, and challenges the global community to use the data to create new solutions to eradicate poverty.

Today, the World Bank's Open Data Catalog includes over 8,000 development indicators, of which 1,400 for 252 countries and 36 aggregate groupings, going back over 50 years, in 50 languages, and is continuously expanding.







Data Catalog

Data Catalog SEARCH


Type: Any

WDI **World Development Indicators**
The primary World Bank collection of development indicators, compiled from official, recognized international sources. It presents the most current and accurate global development data available, and includes national, regional and global estimates.
 [more](#)
Available in the API

↳ WDI and GDF (Scope) - ZIP (5425 MI)
↳ WDI and GDF (CSV) - ZIP (2529 MI)

GDF **Global Development Finance**
Focuses on financial flows, trends in external debt, and other major financial indicators for developing countries. Includes over 200 time series indicators from 1970 to 2020, for most reporting countries.
 [more](#)
Available in the API

↳ WDI and GDF (Scope) - ZIP (3187 MI)
↳ WDI and GDF (CSV) - ZIP (2548 MI)

ADI **Africa Development Indicators**
The most detailed collection of data on Africa, containing over 1,600 indicators, covering 53 African countries and spanning the period 1981 to 2020. Data include social, economic, financial, natural resources, infrastructure, governance, partnership, and environmental indicators. Data are drawn from World Development Indicators, and other sources.
 [more](#)
Available in the API

↳ ADI (CSV) - ZIP (1111 MI)
↳ ADI (Scope) - ZIP (2007 MI)

Research Datasets and Analytical Tools
Various specialized datasets compiled for World Bank research activities, sorted by topic. Many datasets are in raw unprocessed formats, and are specific in scope and coverage.
[more](#)

World Bank Policy Research Working Papers
A collection of policy research working papers, policy research reports, and world development reports in the World Bank's Archives.
[more](#)
Not available in the API

World Bank Projects Portfolio
World Bank Projects Portfolio provides access to basic information on all of the World Bank's lending projects from 1947 to the present. The dataset includes basic information such as the project title, task manager, country, project id, sector, themes, commitment amount, product line, and financing. It also provides links to publicly disclosed online documents.
[more](#)
Available in the API
↳ Projects Portfolio (XML)
↳ Projects Portfolio (CSV)

AICD **Africa's Infrastructure**
The Africa Infrastructure Country Diagnostic (AICD) has data collection and analysis on the status of the main network infrastructures. The AICD database provides cross-country data on network infrastructure for nine major sectors: air transport, information and communication technologies, irrigation, ports, power, railways, roads, water and sanitation.
[more](#)
Not available in the API

AdIFlows
A new tool that allows users to visualize sources and uses of development aid, by country. AdIFlows offers new transparency about the flow of development funds – from countries providing the resources to countries receiving these funds. Beyond global aid data, there is information about contributions from donors to World Bank and/or World Bank administered trust funds. This includes many of emerging donors that are an increasingly important source of global aid funding.
[more](#)
Not available in the API

DB **Doing Business**
Doing Business provides objective measures of business regulations and their enforcement across 193 economies. Each economy is ranked according to 10 sets of indicators. These
Available in the API

- One-stop listing of sources
- Download entire dataset, access query tool
- Global, regional, and specialized datasets
- 40+ data compilations
- 20 datasets including DataBank, 8,000 indicators
- 11 datasets accessible through an API, 3,000+ indicators
- 1,400 indicators in multiple languages

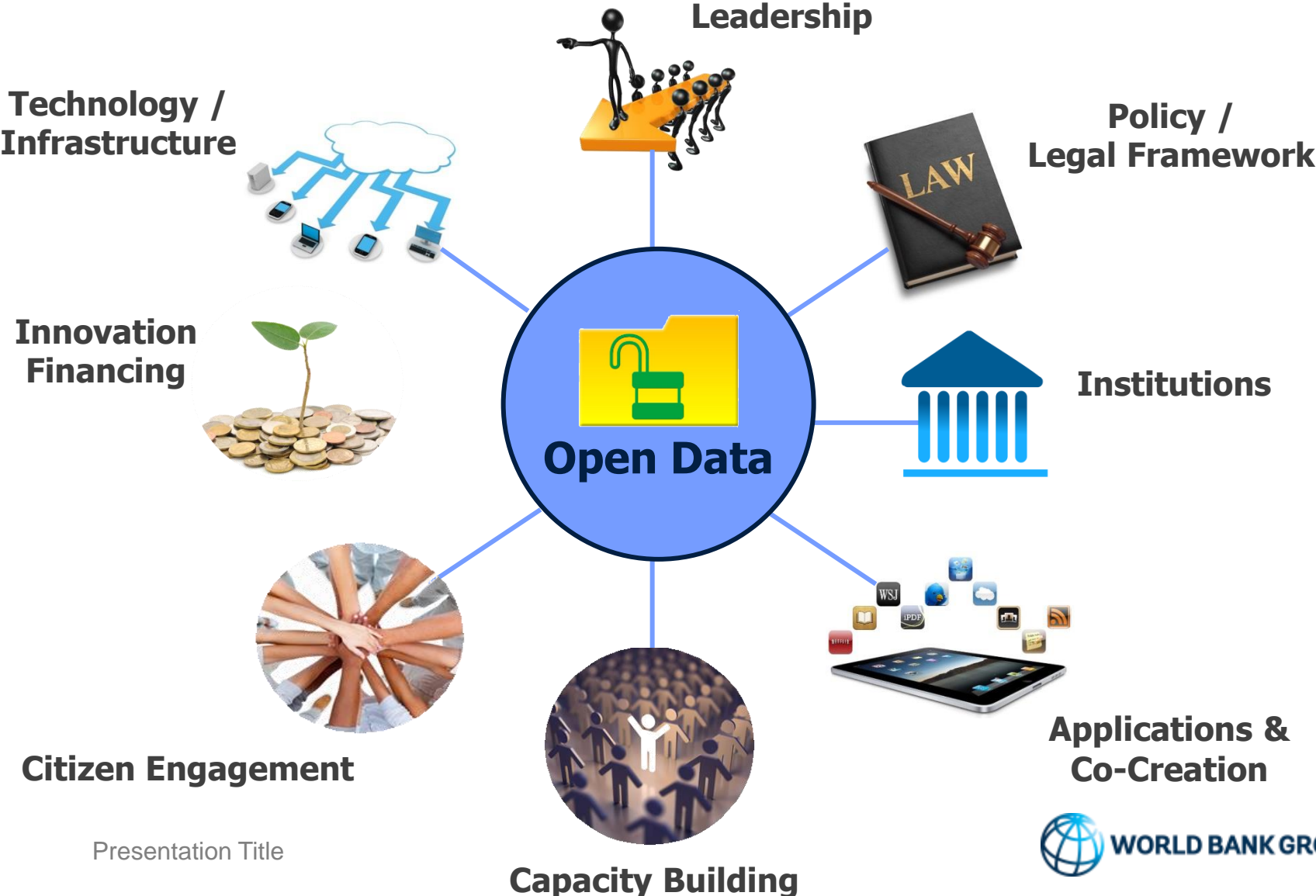
Our Open Government Data Initiative

How the World Bank Helps Governments

Meet Our Global Open Data Team!



We have hands-on expertise in all aspects of Open Data innovation ecosystem





We help governments with:

- Open Data Assessments and Action Planning
- Launching, implementing, and financing Open Data Initiatives
- Open Data – Supply-side (technical data production, cleaning and publication in compliance with Open Data standards)
- Open Data – Demand-side (Stakeholder socialization via TechCamps, Hackathons, Data Clinics, Innovation Challenges, Apps Competitions, Media Training through Journalism Bootcamps)
- Addressing legal issues (Open Data Policy and licensing)
- Analytical work (case studies, commercialization opportunities behind data)
- Building partnerships and connecting with practitioners

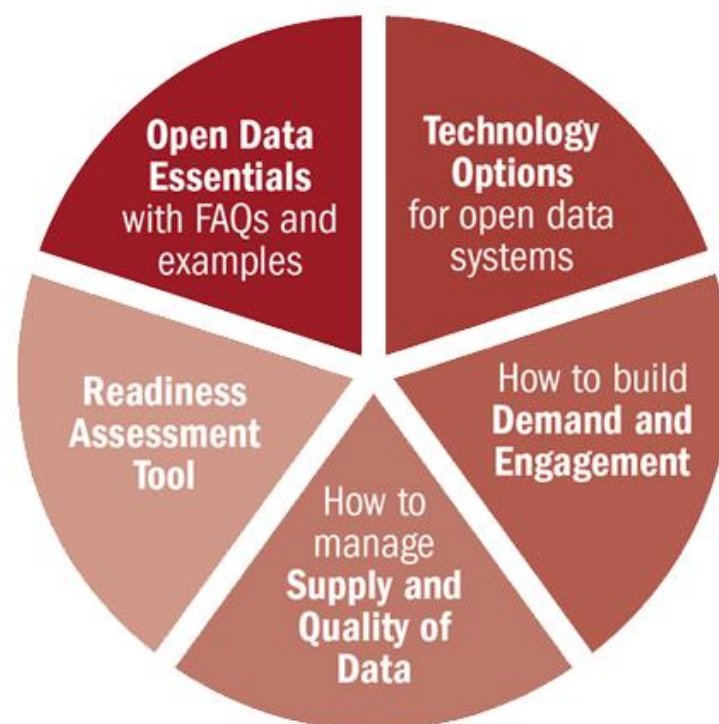
World Bank Open Data Activities

- 
- A world map with a grey background. Countries are highlighted in light blue. The highlighted countries correspond to the list provided. The list is split into two columns: the left column lists 15 countries, and the right column lists 12 countries. The highlighted countries include Afghanistan, Antigua and Barbuda, Botswana, Brazil, Burkina Faso, Dominican Republic, Eastern Caribbean, Ethiopia, Ghana, India, Indonesia, Kenya, Macedonia, Malawi, Mexico, Moldova, Mongolia, Morocco, Nigeria, Nepal, Paraguay, Peru, Philippines, Rwanda, Russia, Tanzania, Tunisia, and Uruguay.
- **Afghanistan**
 - **Antigua and Barbuda**
 - **Botswana**
 - **Brazil**
 - **Burkina Faso**
 - **Dominican Republic**
 - **Eastern Caribbean**
 - **Ethiopia**
 - **Ghana**
 - **India**
 - **Indonesia**
 - **Kenya**
 - **Macedonia**
 - **Malawi**
 - **Mexico**
 - **Moldova**
 - **Mongolia**
 - **Morocco**
 - **Nigeria**
 - **Nepal**
 - **Paraguay**
 - **Peru**
 - **Philippines**
 - **Rwanda**
 - **Russia**
 - **Tanzania**
 - **Tunisia**
 - **Uruguay**

Key Resource: Open Government Data Toolkit

<http://data.worldbank.org/open-government-data-toolkit>

The Toolkit is designed to help governments get “up to speed” in planning and implementing an open government data program while avoiding common pitfalls.



Our Flagship Tool: Open Data Readiness Assessment

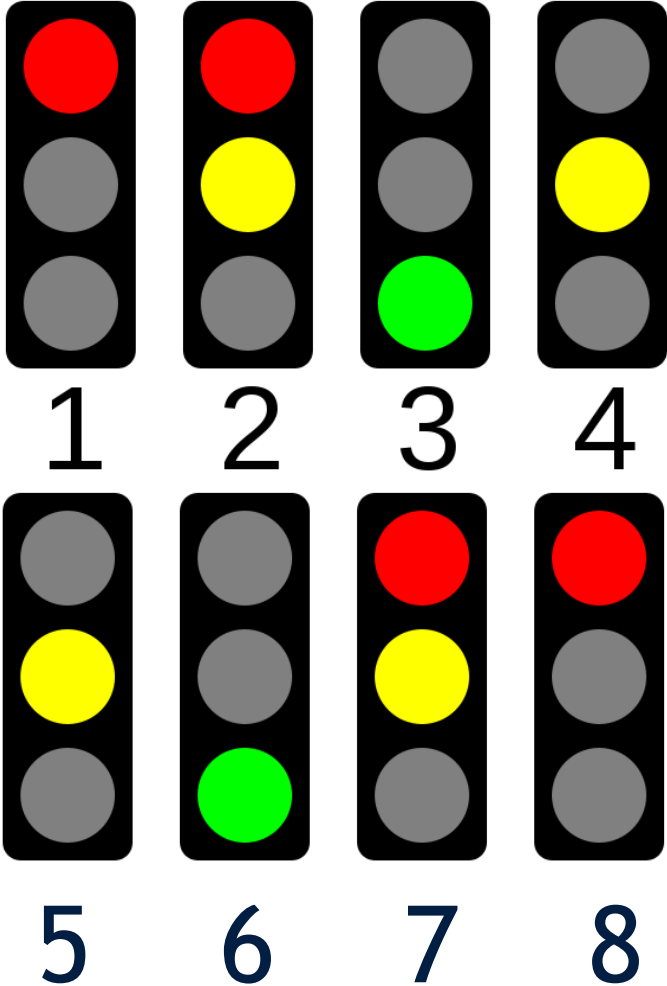


- ODRA is a tool designed to build an action plan for Open Data, custom-tailored to country, subnational government, city, or sector
- It is a set of questions on 8 subjects that we consider necessary for a successful Open Data Initiative
- The output is an action plan and a report that provides recommendations from the particular government
- It is not a ranking exercise

ODRA Methodology

8 Pillars

- 1) Leadership
- 2) Policy / Legal Framework
- 3) Institutional Structure
- 4) Data within Government
- 5) Demand for Data / Citizen Engagement
- 6) Open Data Ecosystem
- 7) Financing
- 8) Technology and Skills Infrastructure



Analytical Work



DRAFT

Realizing the Vision of Open Government Data

Opportunities, Challenges and Pitfalls

Bjorn-Soren Gigler¹
Samantha Custer
and
Hanif Raheemtulla

Long Version



¹ Bjorn-Soren Gigler is a Senior Governance Specialist, Innovation Practice, World Bank. The author can be reached at: bgigler@worldbank.org



DRAFT

The Journey of Open Government & Open Data Moldova

Moldova's eTransformation: Translating nascent interest in ICTs for modernization into an Expanded Vision of Open Government and Open Data.

Long Version



Hanif Raheemtulla
Samantha Custer
Sonia Tisacova
Sihal Jhalla
Bjorn-Soren Gigler
Charles Brigham

Authors: Hanif Raheemtulla, Governance and Geospatial Specialist and Sonia Tisacova, Open Government Coordinator, eGovernment (gigler-mold)

Draft

Open Data Kenya

Case Study of the Underlying Drivers, Principal Objectives and Evolution of one of the first Open Data Initiatives in Africa.

Long Version



Hanif Raheemtulla¹
Jeff Kaplan
Bjorn-Soren Gigler
Samantha Custer
Johannes Kiess
Charles Brigham

¹ Data Science Research Fellow, Horizon, University of Nottingham. The author can be reached at hanif.raheemtulla@nottingham.ac.uk

Partnership for Open Data (POD)

An initiative designed to help policy-makers and citizens in developing countries understand and build on the benefits of Open Data.

Objectives:

- Supporting developing countries to plan, execute, and run Open Data Initiative
- Increasing re-use of Open Data in developing countries
- Growing the base of evidence on the impact of open data for development



2. Open data in agriculture

By Prasanna Lal Das

Open data is not about opening data

Open data is about answers, decisions, solutions, and services

It's about making a practical difference on the ground

Data alone is never enough

Open data in agriculture

What is the price of a crop

mandi trades Home

Location based Farm to Shop Trading Platform.

Mandi Trades - Sell Help

Description
 Now for the First Time in India. Buy Farm Products from Farmers Directly!!
 (Mandi Trades is a Location based F2B (Farm to Shop) Trading Platform for Agricultural Produce

Mandi Trades is an effort to provide Agri businesses, the technology and expertise needed to create a smarter and low cost food supply for consu
 information exchange platform for connecting farmers and Last mile buyers of Agricultural produce across India and connec
 chain -farmers, buyers, end suppliers and transporters into one Smart Phone App.

The Smart Phone App provides the Daily Agricultural Commodity Prices as updated by <http://www.data.gov.in> (Government

*****Features of Mandi Trades*****
 Buy Module: Lists all available sellers who are located nearby your location
 Sell Module: Helps Farmers & Traders list their produce available for sale
 Prices Module: Lists farm produce prices from Government of India
 My List: Items that user has short listed for purchase using the App
 Help: Videos to help the app user to understand its functions.
Less wastage of farm produce.



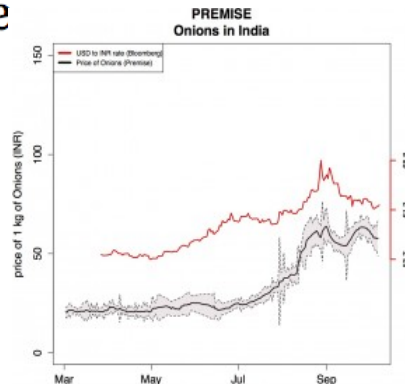
Daily Prices

Blog

Marketplace

MARKETPLACE

Premise Creates a Global Economic Activity Tracker, One Snapshot of Onions at a Time

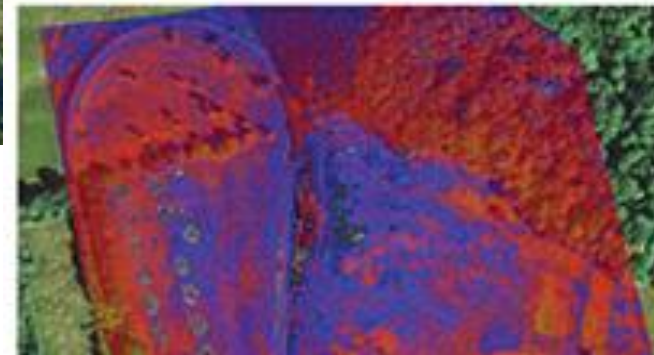


ace · Post #1875

John
Carrots
Kisumu
150 kg

How can I increase my yield

Reaping the fruits of technology in FYR Macedonia



frontalrain Home Products Our Vision Who

Food Supply Chain Software of

MIT Technology Review

Rain+ Grow – Web and mobile apps for grower management, efficient food processing

More

Simple, Modern and Affordable Software for Agribusiness

A screenshot of the Frontalrain software interface. It shows a laptop and a smartphone displaying various data tables and maps. The interface is clean and modern, with a green and white color scheme.

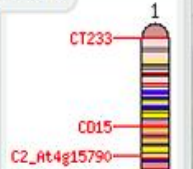
What is the best knowledge about my crop



CASSAVABASE

search manage analyze maps

SNPs & Markers



Genes



Knowledge Bank home | Country home | Change location | Select Language



Search

Factsheet Booklet Builder (0) | About Plantwise | Help

Identify a pest problem

This tool will assist you in finding out what problem could be affecting your crop. Select your crop, and the part/s of the plant affected, then click 'Show Results Now'. The results page will link to datasheets that will further help with diagnosis.

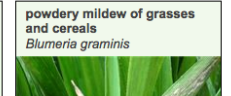
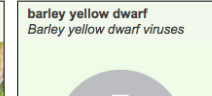
- 1 Location of interest: India
- 2 Crop / host: durum wheat
- 3 Plant part affected: All Parts
- 4 Symptoms:

New search

Search results: 18 Ordered by relevance

Submit an image

- All Results (18)
- abnormal colours (11)
 - abnormal forms (5)



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS STATISTICS DIVISION

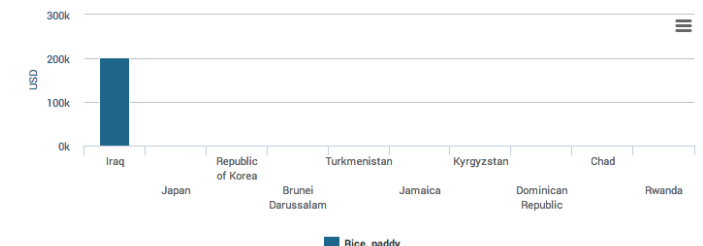
HOME BROWSE DATA DOWNLOAD DATA COMPARE DATA SEARCH DATA ANALYSIS METHOD Search

BY COUNTRY / REGION | RANKINGS

Prices

ITEM: Rice, paddy FROM YEAR: 2002 TO YEAR: 2012 AGGREGATION: Average

Top 10 countries with highest prices for the selected commodity 2002 - 2012



M = Million, k = Thousand

ent of Purpose Partners Success Stories 2015 Meet

What is GODAN?

GODAN is an initiative that seeks to support global efforts to make agriculture data available, accessible, and usable for unrestricted use worldwide.



The open data ecosystem is growing in India

How do you connect farmers, policy makers, innovators, investors, and developers



- HOME
- OUR WORK
- THE TEAM
- BLOG
- MEDIA & NEWS
- ALCHEMIX LIVE!!

Home » Search

Search Results

featured »

Innovating Around the Nutrition Challenge Is Not Just About Food

130 May 2014 | No Comment | 1



ABOUT RTB



Home Innovation

Agriculture

Educate

Agriculture

One of the major challenges in the p...
dealers. farm machinery rental provid

KAMAL KISAN

SIMPLE SOLUTIONS FOR SMART FARMERS



A few lessons

- Don't think data; think business challenge
- Don't merely think challenge; think opportunity
- Don't think information; think service
- Don't think supply; think demand
- Don't think publication; think consumption
- Don't do everything yourself; build partnerships

3. Improving Results through Open Data Driven Solutions & Citizen Engagement

By Saki Kumagai

Closing the Feedback Loop through Open Data

Open data provides opportunities and means for government to engage with its people and other stakeholders in transformative manners –

- 1) To be more inclusive in decision-making process
- 2) To provide better and more effective services
- 3) To achieve good governance



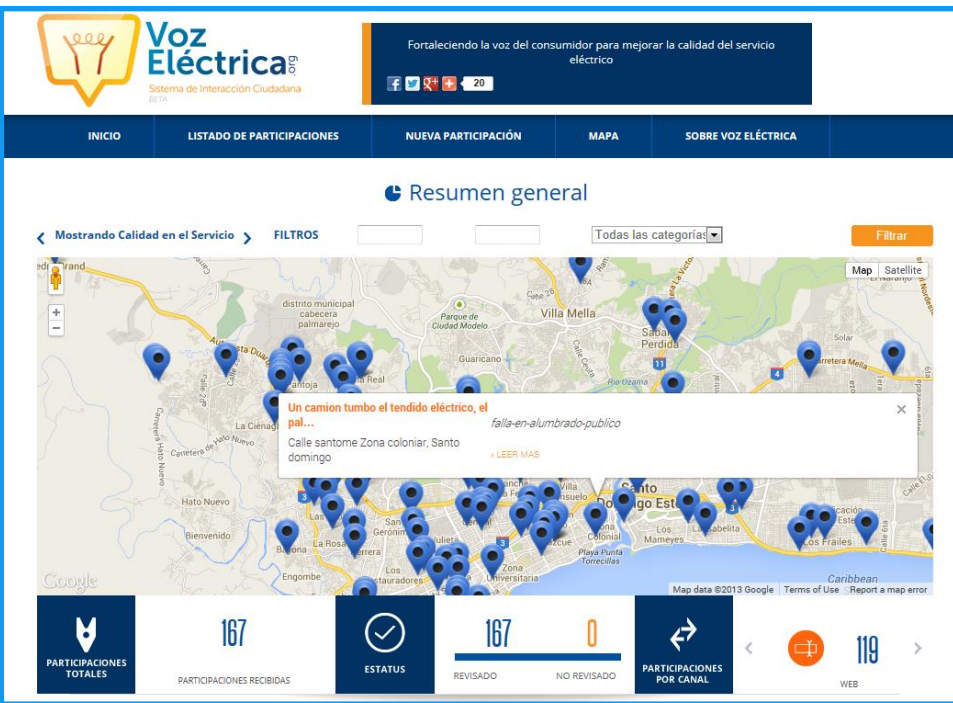
How Open Data can be done at project level – and be used as a mean to enhance citizen engagement

Taking greater transparency achieved by Open Data to Social Accountability and further stakeholder participation to achieve better results and service provision

How? – In 2 steps

- 1) Disclosing data following the Open Data standard** – allowing data users (e.g., IT firms, entrepreneurs, service providers, academia, etc.) to use and re-use data to develop Open Data driven solutions (e.g., applications) which can enhance development outcomes
- 2) Sharing data in the way general public can understand (as information) and ask for their feedback** – allowing government to constructively engage with its people to enhance data quality, incorporate their feedback into analysis and decision-making, etc.

Examples (World Bank-financed projects)

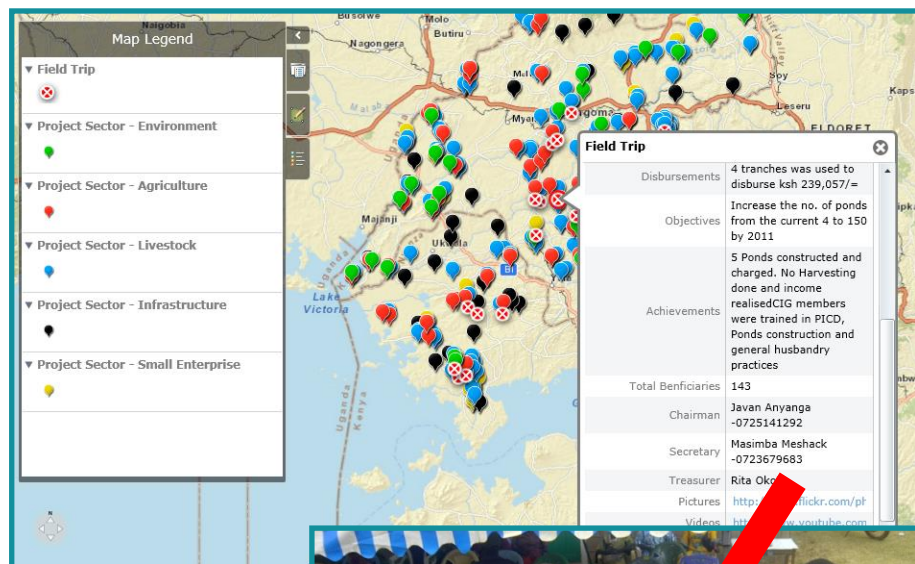


Dominican Republic (Electricity Sector – Voz Electrica)

Kenya (Community Driven Development, Livelihood)

More examples are seen in Peru, Ecuador, Indonesia, the Philippines, PNG (pipeline for piloting, CDD project), Myanmar (piloting, CDD project), etc.

Possibility of further innovation?



4. Open Data Initiative in India

By Dr. Shashank Ojha

Open Government Data is one of the key priorities of PMO...

The image shows a screenshot of the data.gov website. At the top, the logo for data.gov is visible, along with the Government of India emblem and the text "GOVERNMENT OF INDIA". Below the logo, there is a navigation menu with options like Home, Catalogs, Metrics, Communities, Events, Announcements, Suggestions, Featured Apps, Visualization Gallery, and Search. A search bar is present with the text "Search within 7,929 resources in 3,117 catalogs".

The main content area features a banner for Narendra Modi, Prime Minister of India, with the Indian flag and the national emblem. Below the banner, there are several links: "Know Your Prime Minister", "Prime Minister's Office", "Our Government", "PM's Funds", and "Media Gallery".

Under the "Our Government" section, there are several links: "Council of Ministers", "Cabinet Secretariat", "Open Government Data Platform India", "Government Web Directory", "National Portal of India", and "Press Information Bureau (PIB)". The link "Open Government Data Platform India" is circled in yellow, and a blue arrow points from it to the data.gov logo at the top of the page.

New ideas on creating 'public value'

New Ideas associated with Public Value theory

(Mark Moore, Kennedy Business School, John Benington, Warwick Business School).

- These ideas have brought the focus back on networked governance and the role of public agencies in working with citizens to co-create public value.
- 'Public value is not created by the public sector alone. Public value outcomes can be generated by the private sector, the voluntary sector and informal community organizations, as well as by governments'.
- Emphasis is on the 'roles of government is to harness the powers and resources of all three sectors (the state, the market and civil society) behind a common purpose and strategic priorities, in the pursuit of public value goals'.

India's OPEN DATA Initiative

National Data Sharing & Accessibility Policy (NDSAP)

- India's NDSAP was formulated through an extensive process of consultation. It was gazette notified on 17th March, 2012
- Data Portal is live at <http://data.gov.in>
- More than 90 Data Controllers nominated
- About 10,824 resources in 3,226 catalogues from 71 Ministries/ Departments (as on Aug., 2014)
- Viewed 1.62 M times, 642,484 downloads by 42,485 registered users

India's Open Data Platform – data.gov.in

data.gov.in

Open Government Data (OGD) Platform India



सत्यमेव जयते



GOVERNMENT OF INDIA



Log in/Register

Home

Catalogs

Metrics

Communities

Events

Announcements

Suggestions

Featured Apps

Visualization Gallery

Search

Search within 10,824 resources in 3,226 catalogs

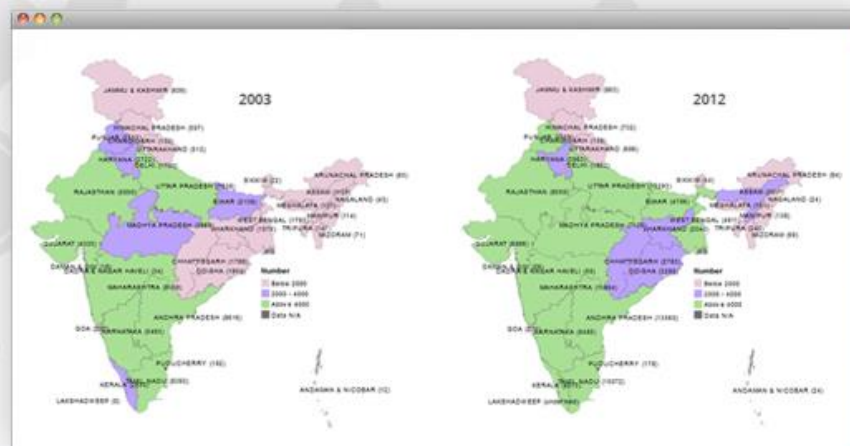
Search Catalogs

Search Everything

3rd September 2014

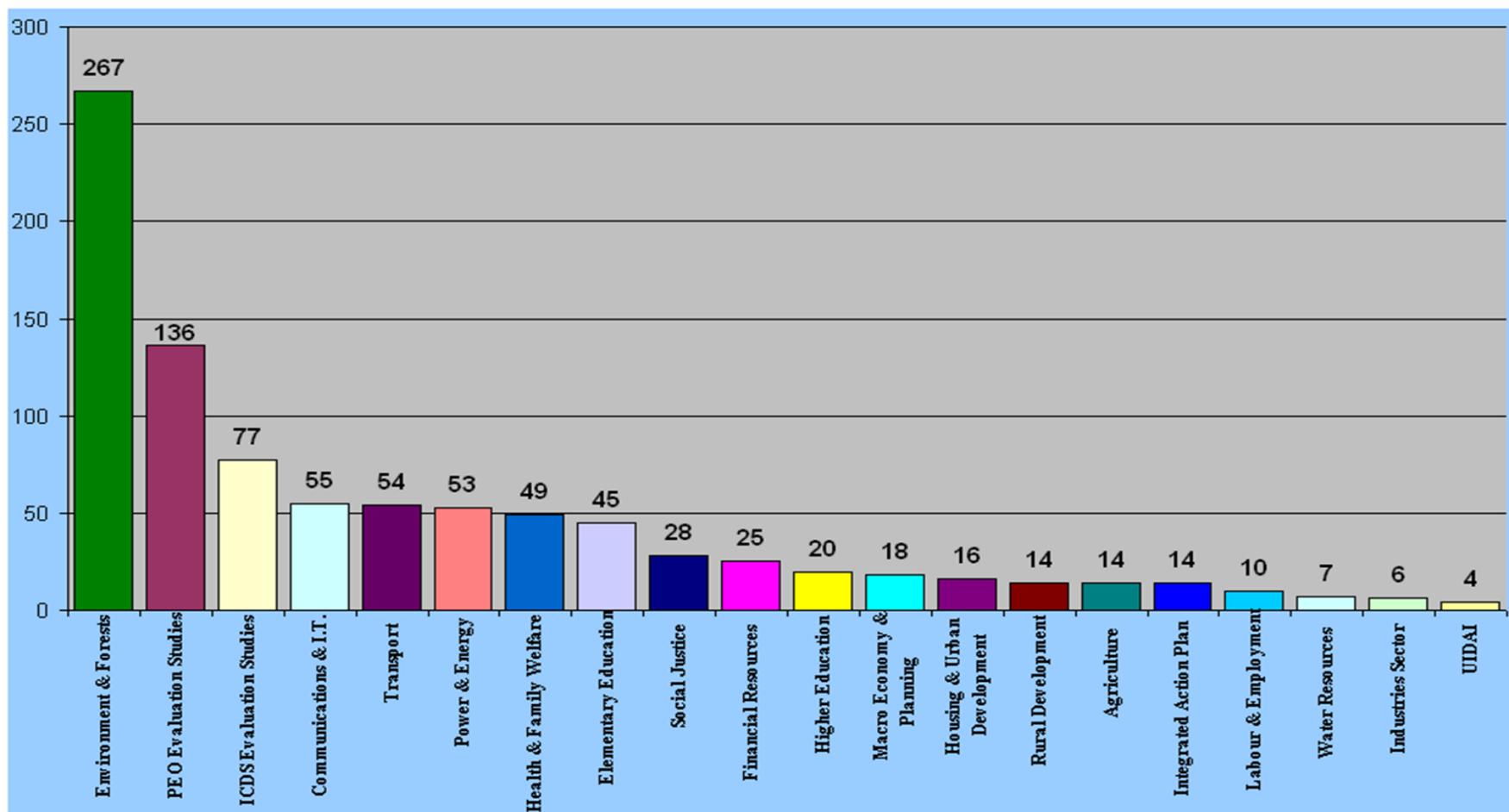
VISUALIZATION OF THE DAY

State/UT-wise fatal road accidents during 2003-2012



10,824 RESOURCES IN **3,226** CATALOGS, **258** VISUALIZATIONS BY **71** DEPARTMENTS ARE **1.62 M** TIMES VIEWED, **642,484** TIMES DOWNLOADED BY **42,485** REGISTERED USERS

Datasets by Sectors (data.gov.in)



NUMBER OF COUNTRIES **70**

NUMBER OF DATASETS **700**

NUMBER OF OPEN DATASETS **84**

PERCENTAGE OPEN **12%**

The Open Data Index is an initiative of the [Open Knowledge Foundation](#) based on contributions from [open data](#) advocates and experts around the world. The Index results were compiled from the data collected from the [Open Data Census](#). You can see a list of our global community of contributors [here](#).

Key: ■ Yes ■ No ■ Unsure ■ No data

Sort

- alphabetically
- by score

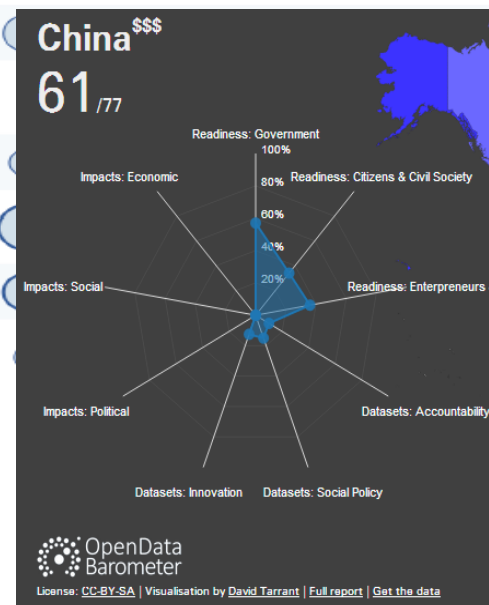
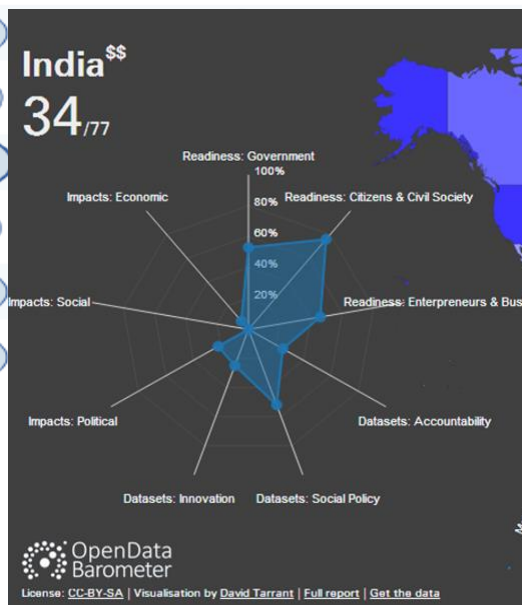
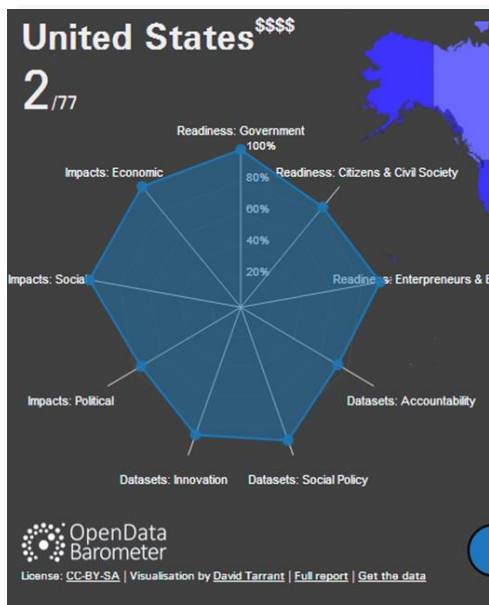
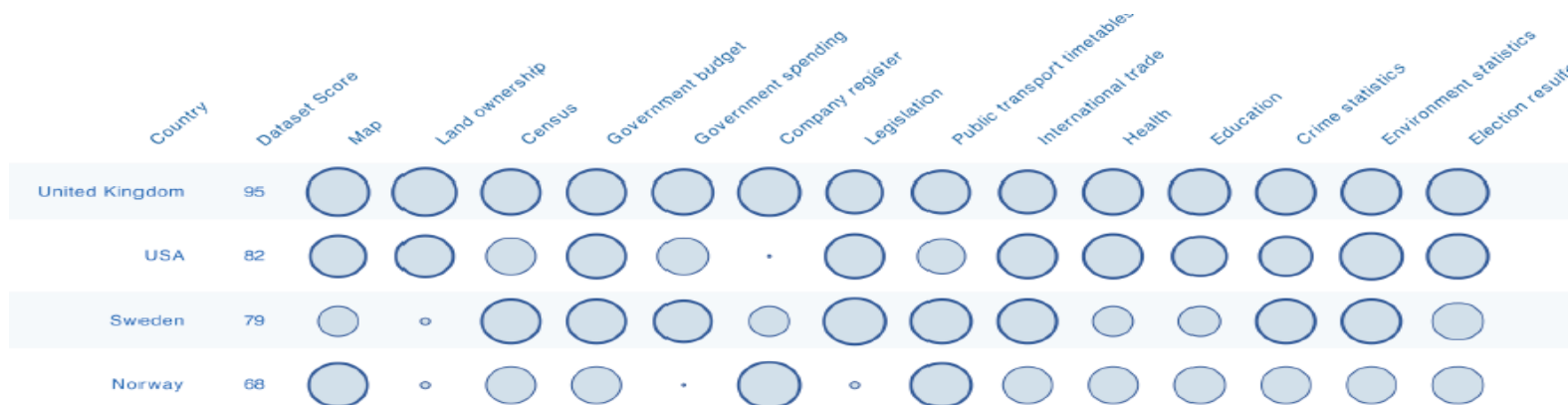
Transport Timetables Government Budget Government Spending Election Results Company Register National Map National Statistics Legislation Postcodes / Zipcodes Emissions of pollutants Total Score

Country	Transport Timetables	Government Budget	Government Spending	Election Results	Company Register	National Map	National Statistics	Legislation	Postcodes / Zipcodes	Emissions of pollutants	Total Score
United Kingdom	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	940
United States	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	855
Denmark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	835
Norway	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	755
Netherlands	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	740
Finland	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	700
Sweden	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	670
New Zealand	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	660
Australia	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	660
Canada	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	590

India	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	215
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Source: <https://index.okfn.org/country>

Open Data Barometer 2013



<http://www.opendataresearch.org/barometerp>

OPEN DATA – How Can We Help?

What support can we offer to Governments of Andhra Pradesh and Telangana?

- Review of draft policy documents and formulating recommendations on incorporating OD principles by design
- Benefits and/or readiness assessment (including a field visit) for including an open data component in the project or launching a broader open data program
- Training and awareness raising for the Client staff
- Facilitate uploading of datasets to national OD platform
- Connect Indian clients with others working on open data solutions in the same sector
- Facilitate AP's and Telangana's global and national leadership in using open data for rural empowerment

Join the Revolution

PARTICIPATORY DECISION MAKING

BudgetVoice

**Policy
Consultation**

CITIZEN FEEDBACK

ReportVoice

**CrossVoice
Open 311**

**Community
Mapping**

MONITORING

**MonitorVoice
in Bank projects**

**MonitorVoice
in external projects**

Open Data Workshop, June 2014



THANK YOU & CONTACT INFORMATION

Open Data & World Bank

Oleg Petrov	Senior Program Office , Transport & ICT Global Practice	Opetrov@worldbank.org
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Open Data in Agriculture

Prasanna Lal Das	Lead Program Officer, e-Disbursement	plaldas@worldbank.org
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Improving Results through Open Data Driven Solution & Citizen Engagement

Saki Kumagai	Social Development Specialist, Governance Global Practice	Skumagai@worldbank.org
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Open Data Initiative in India

Shashank Ojha	Senior e-Government Specialist, Transport & ICT Global Practice	sojha@worldbank.org
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