



17th National Conference on e-Governance
Kochi, India, January 30, 2014

Open Data as a Key Enabler of Smart Government

Session 3: Leveraging Emerging Technologies

Oleg Petrov

Senior Program Officer

Global ICT Practice @ The World Bank



THE WORLD BANK
Working for a World Free of Poverty



**NATIONAL
CONFERENCE
ON e-GOVERNANCE**

30th & 31st January 2014, Kochi



E-Governance: 'Vision to Implementation'



Part 1: The Context

Smart Government Framework and Examples



Evolution of ICT in Public Sector: from Informatization to Smart Government

1980-2000: Old Model

- Informatization (Gov 1.0)

2000-2013: Current Model

- E-Government/e-Transformation/Open Government (Gov 2.0)

2014+: Emerging Model

- Smart Government (Gov 3.0)



Old Model (1980-2000): Informatization

High Costs – Limited Results

Gov 1.0: Computerizing the “Brick and Mortar” (industrial age) government

- Duplicative, wasteful IT investments
- Technology/supply/vendor-driven
- Ignoring or reinforcing organizational silos
- Limited back-end integration and sharing of data, infrastructure and services
- Focus on interoperability rather than sharing
- Limited process re-engineering that does not leverage the full power of ICT
- Limited change management
- Limited participation of the citizens and private sector
- Government-centric





Current Model (2000-2013): High costs – Better Results

Gov 2.0: Second-generation model of ICT-enabled government transformation into a more **citizen-centric** and **integrated** government.

Focus on sharing and integration and more recently (2008-2011) on transformation (“e-Transformation”) and most recently (2012-2013) on openness (“Open Government”).

Key trends:

- **Whole-of-government** perspective
- **Sharing infrastructure and services**
- **e-Inclusion-for-all**
- **Multi-channel delivery** of services, especially via **mobile phones**
- **Change management and e-leadership**
- **Process re-engineering/admin reform**

e-Government in 2014

WHAT'S
NEXT?



Emerging Model: Smart Government

Lower costs – Better Results

Next generation model of ICT-enabled public sector transformation into a **Smart Government (Gov 3.0)**

Simple Definition: What is Smart?

- **Doing more (more focus on effectiveness, results) with less (more focus on efficiency, cost savings) and:**
 - More openly (more focus on transparency and accountability)
 - More sustainably (more focus on social, political, environmental and financial sustainability)
 - More securely (increased focus on cybersecurity)
 - Faster (real-time, more agile service delivery and software development) and
 - More inclusive, targeted and personalized delivery

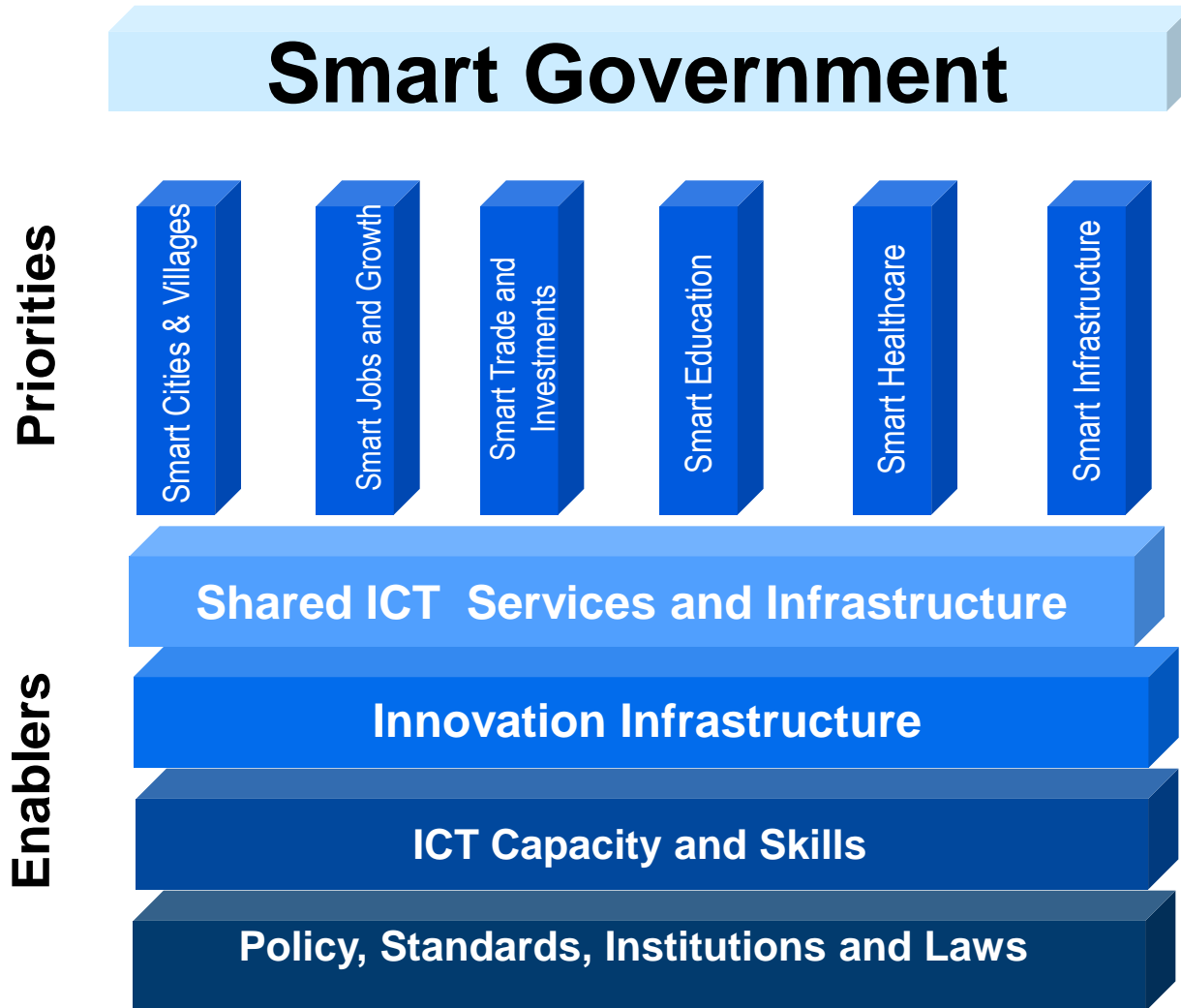


S.M.A.R.T Government: Key Aspects

- **Social:** Not only highly personalized and citizen-friendly service delivery, but also allowing citizens and civil society to co-create with Government, especially via social media and crowdsourcing tools
- **Mobile:** Using the latest mobile technologies to deliver information and services, and get contributions from citizens, wherever and whenever they want – by Apps, SMS, Social Media, and Web-on-the-move – using mobile networks and cloud computing at the back-end
- **Analytics:** Using big data Analytics, sensors, and context Aware services to drive policy action and to individualize communications and transactions
- **Radical-openness:** “Open by Default” and “Open by Design” transforms Accountability and Transparency and engages citizens in co-creation, as well as enable businesses to use data for innovative new services
- **Trust:** Effective Cybersecurity so that services are resilient, available and protection of privacy



Putting it all together: Smart Government Ecosystem



ICT Enablers as a Platform

1. Shared ICT Services and Infrastructure

- e.g. e-Procurement, HR, Office suite tools;
- Cloud, Mobile, Broadband, Cybersecurity, eID, Open/Big Data, Social Media, Sensors, Analytics

2. Innovation Infrastructure

- e.g. innovation hubs, funding mechanisms, PPP...

3. ICT Capacity and Skills

- e.g. capacity building and IT skills.

4. Policy, Standards, Institutional, Legal & Regulatory Framework

- e.g. institutions & policies.



Smart Government: So What?

Can Smart Government Enablers Really Help Achieve MDG Goals, e.g. Eradicate Poverty?

“Our strategy calls for us to become a Solutions Bank with results for the poor as our central benchmark.”



Jim Yong Kim
World Bank Group President

Example of Smart Poverty Killer: the Aadhar Project (India)



Nandan Nilekani speaks at World Bank on the country's digital identification program (Aadhar)—what WB President Kim called a 'poverty killer' innovation

Part 2: Open Data as a Key Enabler of Smart Government



Part 2: Open Data as a Smart Enabler

What is Open Data?

Why Open Data?

Lessons Learned so far?

How can World Bank help?



World
Bank

What is Open Government Data?

What is Open Data?

Open data is
data
that can be
freely
used,
reused
and redistributed
by **anyone**
for **any purpose.**

Open =


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	id	name	title	version	url	author	author_email	maintainer	maintainer_email	notes	license_id	type	state	revision_id	license	isopen	tags	groups	ratings_average
2	1febe57b-	1-1-5m-sc	1:1.5M scale 'Geology Through Climate Change' Map Covering UK mainla							1:1.5M scale 'Geology Through		active	37dfbc09-9d70-4839-	FALSE	Climate ch	british-geological-su			
3	5052d113-	1-1m-scal	1:1M scale Offshore Quaternary Map							This is a digital version of the p		active	981566e4-6430-4bf6-	FALSE	Marine ge	british-geological-su			
4	9da14949-	1-50-000-	1:50 000 Scale Gazetteer							1:50 000		active	9c29ed81-4167-45b2-	FALSE	Gazetteer	ordnance-survey			
5	f41e9a4a-	10k-sheet	10k Sheet Data Files.							An important archive of a wide		active	15ab725a-16c3-4d1b-	FALSE	Boreholes	british-geological-su			
6	3685e98f-	13-butadi	1,3-butadiene runnii		http://ww	Environment	enviro.statistics@defra.gsi.gov	1,3-butadi	uk-ogl			active	ba59f4fd-UK Open C	TRUE	Health air	department-for-env			
7	060c2c28-	15th-perc	15th Percentile House Prices (Land Regist open_data@communities.gsi.g							Annual hc uk-ogl		active	dadbe280-UK Open C	TRUE		department-for-con			
8	d58b1bc0-	1987-ongc	1987 - ongoing Met Office Marine Automatic Weather Station (MAWS) M							Meteorological observations o		active	ac20371c-db16-43c1-	FALSE	'Other' me	marine-environmen			
9	81dd47ea-	2005-aeri	2005 Aerial Photography							Orthorectified aerial photogra		active	b33292f0-a5da-4b5f-	FALSE	Photogra	barrow-borough-col			
10	970f4cfc-	2008_inju	2008 Injury Road Traffic Collisions in Northern Ireland							Calendar uk-ogl		active	68edde2f-UK Open C	TRUE	casualties	police-service-of-no			
11	18f0094d-	2009-aeri	2009 Aerial Photography							Orthorectified aerial photogra		active	23ee03dc-ae2e-48ec	FALSE	Photogra	barrow-borough-col			
12	f7a02eef-	2010-fin	Results from the 2010 finance s			Transpare	transparency@bis.gsi.gov.uk			Underlyin uk-ogl		active	9f69ad1c-UK Open C	TRUE	2010-fin	department-for-bus			
13	37b81331-	2011-exp	2011 expenses							Link to 20: uk-ogl		active	96560265-UK Open C	TRUE	Health	nhs-north-lincolnshi			
14	098d01b7-	2011-nov	Spend over Â£25,000 in Kirklees PCT							Expendit uk-ogl		active	1d1548f0-UK Open C	TRUE	Health	kirklees-primary-car			
15	bb8aafb1-	2011-skil	2011 skills for life survey small area estimation datasets							These dat uk-ogl		active	ea205c71-UK Open C	TRUE	Education	department-for-bus			
16	97d9444d-	2012-apr	2012 NHS Torbay Spend Over 25k							The uk-ogl		active	3d28f00f-UK Open C	TRUE	Health	torbay-care-trust			
17	a891499e-	2012_oct	2012 October return							A monthly uk-ogl		active	738b840c-UK Open C	TRUE	Health Sp	devon-partnership-r			
18	57fb5b1b-	2012oct	2012 October return							A uk-ogl		active	bf75e507-UK Open C	TRUE	Health Sp	devon-partnership-r			
19	e083ee84-	2050-path	DECC 2050 Pathways http://ww		2050 Path	2050pathways@decc.gsi.gov.uk				A model v uk-ogl		active	8240b141-UK Open C	TRUE	climate-cl	department-of-ener			
20	11cb1364-	25k_mont	Spend over Â£25,000 http://ww		Freedom i	CFTenquiries@cornwall.nhs.uk				A monthly uk-ogl		active	c89ef7d9-UK Open C	TRUE	25k-trans	cornwall-partnershi			
21	5a705e99-	2m-comp	2m Composite LIDAR Digital Surface Model							Light Detection and Ranging (LI		active	084993a5-1c65-4a9c-	FALSE	Elevation	environment-agency			
22	2e279200-	2m-comp	2m Composite LIDAR Digital Terrain Model							Light Detection and Ranging (LI		active	0edf3520-e5c4-4df5-	FALSE	Elevation	environment-agency			
23	2c54f62f-	c300911_	English Heritage Organogram			English He	ehdatacleansing@english-heri			English He uk-ogl		active	f889fbb8-UK Open C	TRUE	Administr	english-heritage			
24	f76272ce-	5-day-pay	5 Day Payment Perf http://ww		National I	nice@nice.org.uk				A table sh uk-ogl		active	421656c7-UK Open C	TRUE	5-day-pay	national-institute-fc			
25	738d6ca2-	5-day-pay	5 Day Payment Targe http://ww		enquiries	enquiries@ic.nhs.uk				The NHS uk-ogl		active	30b1a3f0-UK Open C	TRUE	Health be	nhs-information-cer			
26	69104bea-	50k-sheet	50k Sheet Data Files.							An important archive of a wide		active	d473435a-6bcf-4292-	FALSE	Boreholes	british-geological-su			

Machine-readable (Re-usable)

Open =



Open =




creativecommons
Attribution 3.0 Unported (CC BY 3.0)

This is a human-readable summary of the [Legal Code \(the full license\)](#).


[Disclaimer](#)

You are free:

- to **Share** — to copy, distribute and transmit the work
- to **Remix** — to adapt the work
- to make commercial use of the work



Under the following conditions:

 **Attribution** — You must attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work).

Open Licence

Open =

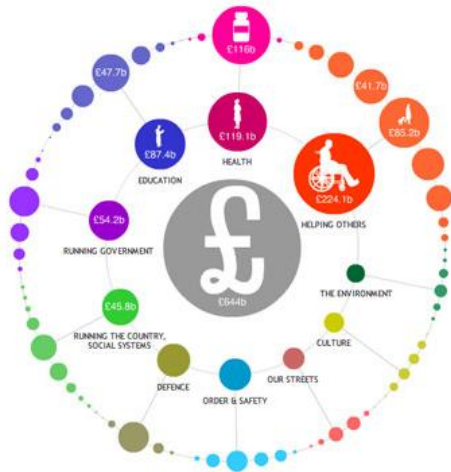


Usable by anyone ...

Open =



nonprofit



gov

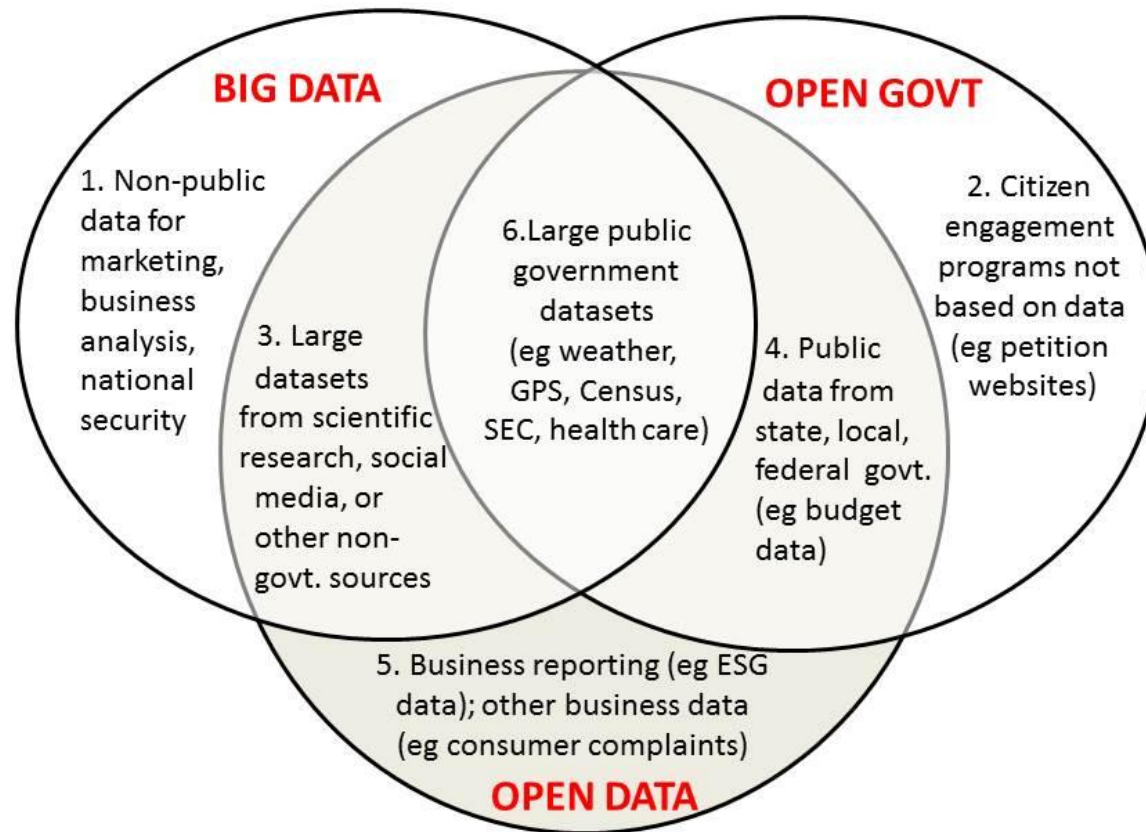


... for any purpose allowed by law

















Public Data

Big Data ≠ Open Data ≠ Open Government



India @ Open Data Barometer 2013

How India scores in terms of data availability and openness

Dataset score	34	Public transport timetable	
Map		International trade	
Land ownership		Health	
Census		Education	
Government budget		Crime statistics	
Government spending		Environment statistics	
Company register		Election results	
Legislation			

The Open Data Barometer scores are based on the availability of 1078 different datasets across 14 categories (including online availability, machine-readability, license, sustainability, timeliness of updates and discoverability).

The larger the size of the circle, the higher the score.



World
Bank

Why Open Government Data?



Open Data as Fuel for Innovation and Economic Growth

Economic Value of Open Data

McKinsey study: \$3 trillion annually worldwide

Open Gov Data in EU would increase business activity by up to €40 Bn/year, with total benefits up to €140 Bn/year (0.7% of GDP)

Australian study found ROI of ~500% from open data

Deloitte/POPSIS found open data was reused 10x-100x more than charged-for data

All economic analysis and case studies
point the same way

Evidence of Impact of Open Data

- Releasing Global Positioning System data from 1994 now has \$122bn/yr benefits to US economy alone with 5.8m jobs in GPS-intensive industries
- UK National Mapping Agency data supports £100bn/yr of GDP activity
- Open Weather Data in US has created 400 companies employing 4000 people
- Releasing addressing data as Open Data in Denmark gave \$21m/yr benefits and 2200% ROI
- Publishing the UK's 240 cardiac surgeons' individual clinical outcomes reduced deaths by 1000 a year
- 1000s of apps delivering public transport information in the United States – 68 in New York alone
- UK released data on location of 300,000 bus-stops; OpenStreetMap corrected 18,000 of them, improving official data accuracy.

DELIVER CASH SAVINGS

WITHOUT COMPROMISING
FRONT-LINE SERVICES

[A procurement savings blueprint...](#)

Spend & Contract Visibility

Profile your spend to find savings, identify opportunities to aggregate...

Transparency

Improve the accessibility, relevance and value of the spend data...

Performance

Evidence your progress, create context through comparison...

Sustainability

Measure and manage CO₂ in the supply chain...

Data Transformation

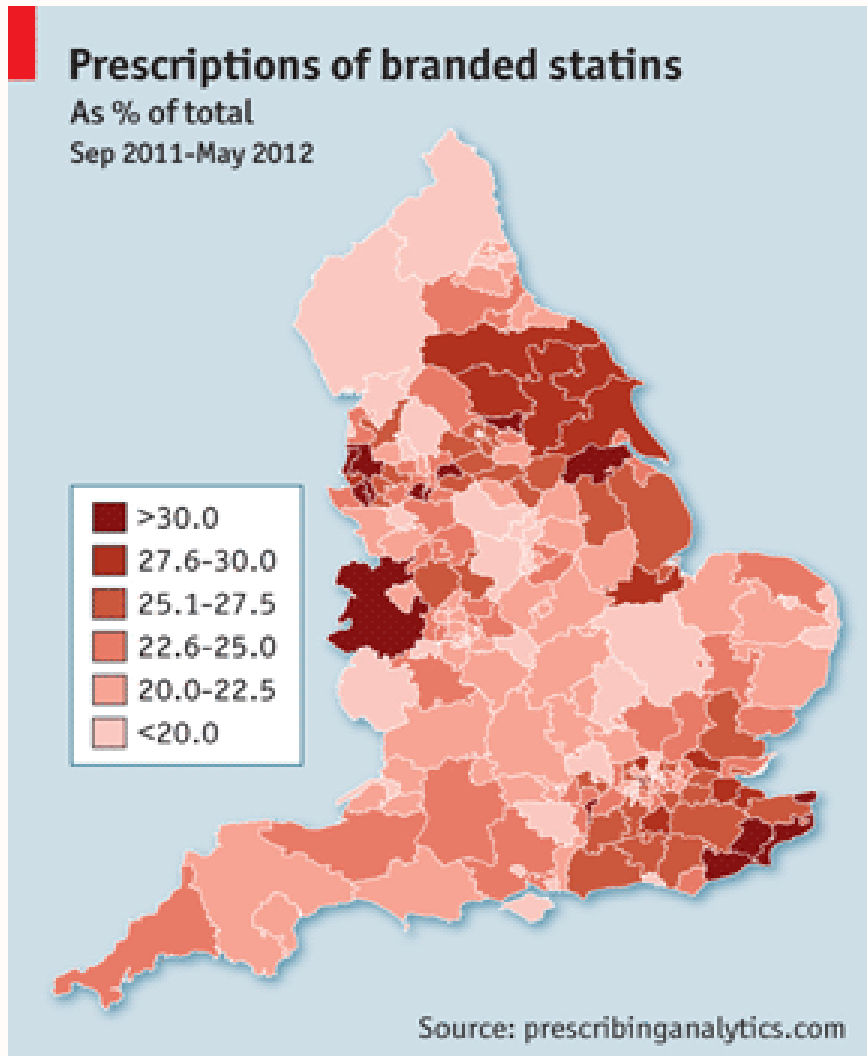
Our highly experienced team rapidly transform your spend, supplier and contract data into actionable business intelligence regardless of the completeness, accuracy or fitness for purpose of the source.

London: Open Data as a Transport Investment



- ~500 Applications (mobile, web, others)
- ~5000 people involved in “app industry”
- As a transport project alone, evaluated by usual economic criteria:
Return On Investment = 58:1
- TFL have stopped making their own apps

Open Data Improves Efficiency



- Used experts in
 - Health
 - Data Analytics
- Analysed 35m data records
- 8 weeks
- £200m+/yr savings
- Repeatable
- Could scale to £1.5bn

Helps improve data quality

COMPUTERWORLD UK

THE VOICE OF IT MANAGEMENT

[Home](#) > [Public Sector](#) > [News](#)

 Public Sector



NHS records 20,000 pregnant men in the UK

Highlights a need for more sophisticated data capturing systems

By Anh Nguyen | Computerworld UK | Published 12:42, 17 April 12

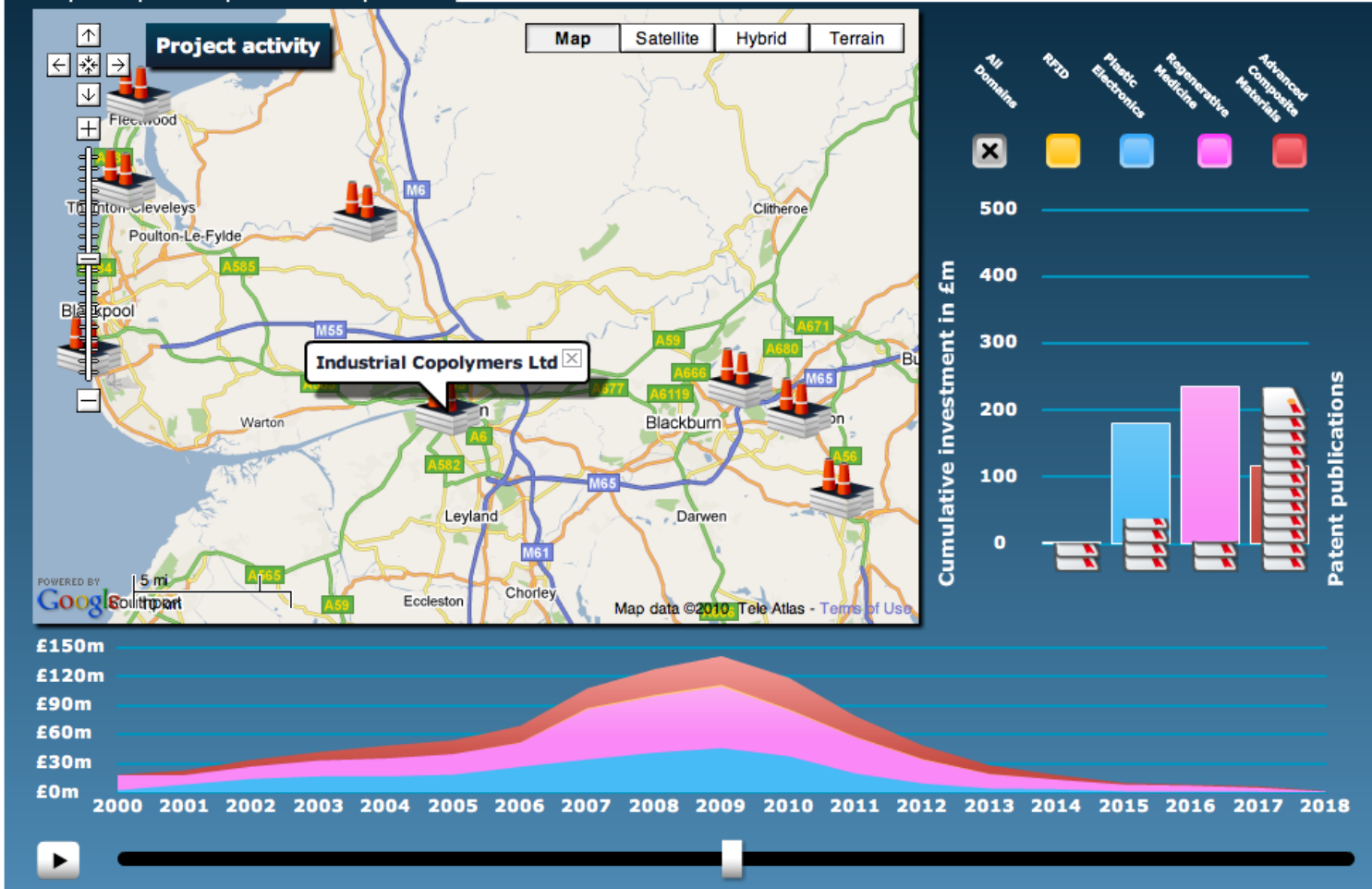
A study of NHS data has discovered that there were 20,000 men using midwifery services between 2009 and 2010.

Assisting Foreign Inward Investment

BIS Department for Business Innovation & Skills

Research Funding Explorer

Home About Regions Organisations Subjects



Driving Business Growth

From Weather Insurance to Green Revolution

THE CLIMATE CORPORATION

[Products](#) [Testimonials](#) [Agents](#) [Sign Up / Login](#)

Protect & Increase your Profits

Full-Stack Risk Management

MP FEDERAL CROP INSURANCE **CH** CROP-HAIL **TWI** TOTAL WEATHER INSURANCE

Ag Production Management

CLIMATE.COM

[View Products >>](#)

05/02/13 13:00:00

Climate Corporation offices in San Francisco

Driving Business Growth

Data for Energy Savings

OPOWER SOLUTIONS PRODUCTS CUSTOMERS RESULTS COMPANY

2,675,594,677
Kilowatt Hours Saved

Better information, motivation, and control for all.
Welcome to Opower

The Opower Platform

UtilityCo

UtilityCo



Ogi Kavazovic, VP Marketing & Strategy

Driving Business Growth

Healthcare: The Next Big Frontier?



Driving Business Growth



Get Mobile App

- Symptoms
- Doctors
- Facilities
- Conditions
- Medications
- Procedures
- My iTriage
- HEALTH

Take Charge of Your Health

With the new symptom checker, learn possible causes of multiple related symptoms, locate care, and book an appointment.



iTriage Blog
Health tips, news and trends. Subscribe now!



CarePass®
Start your personal health journey.



Download Free
Android & iPhone



Feedback
Tell Us What You Think



Smart Disclosure for Consumer Choice

Help for K-12 Households

greatschools™ Schools Search for school, district, or city NY

Find a School Review Your School Preschool Elementary School Middle School High School

Hot Topics Worksheets & Activities Homework Help Parenting Dilemmas Learning Difficulties Health & Behavior Raising a Reader

School results for “ps 130 abrams hewitt”

Schools in city: Putnam Station, NY [More cities »](#)

By location **By name**

ps 130 abrams hewitt NY Search

e.g. "Cragmont Elementary School", "Los Angeles Unified School District"

All school types All grade levels 1 school found

List Map Showing 1-1 of 1 schools

Name	Greatschools Rating	Community Rating
SPONSORED BY K12 International Academy; An accredited, online private school for grades K-12. Learn more.		
P.S. 130 Abram Stevens Hewitt	2	★★★★★ I love this school. I just to i

ADVERTISEMENT

LONDON CITY SUITES BY MONTCALM

From £ 14 * Terms and Conditions

Compare

Want Check the

Bill Jackson, CEO

Uganda: Open Data and Community Health Monitoring



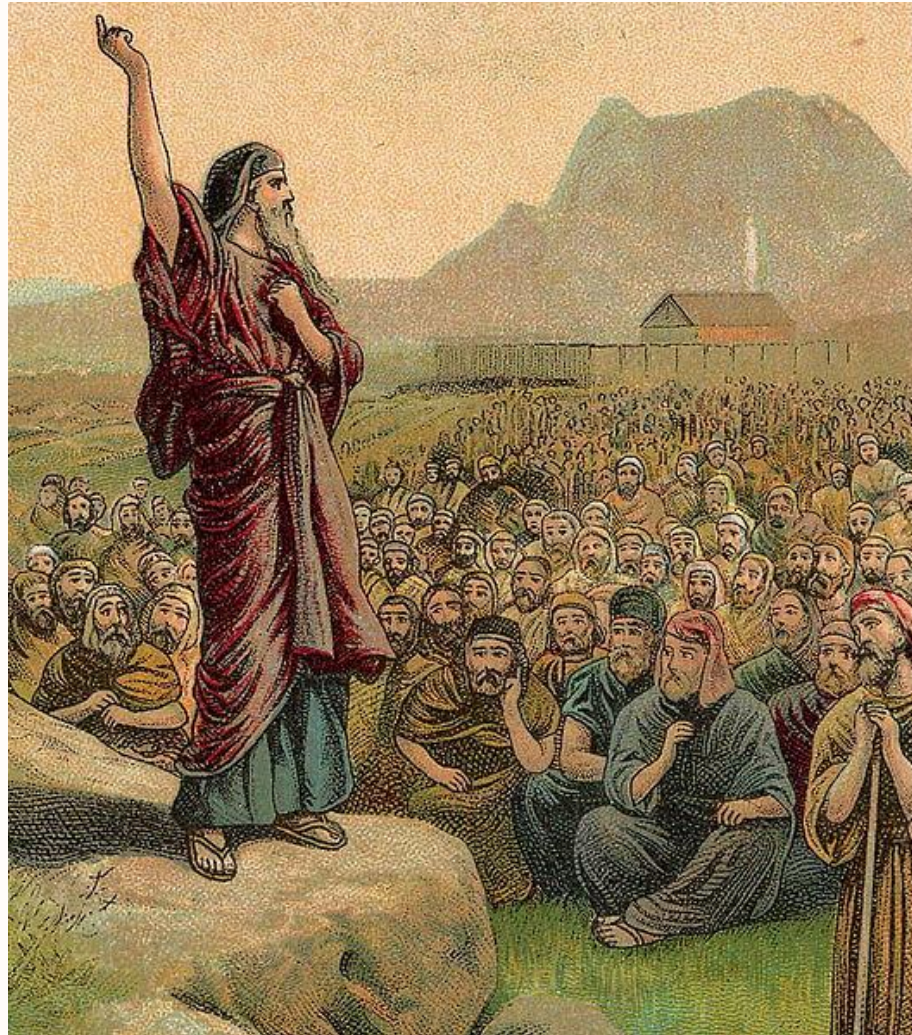
- 33% reduction in under-5 mortality
- 20% extra utilisation of out-patient services
- Significant improvements in:
 - Immunization
 - Waiting times
 - Absenteeism



World
Bank

Open Government Data: Lessons Learned

Leadership is key



Government Data

[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 imagined yet.



President Barack
Obama

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!

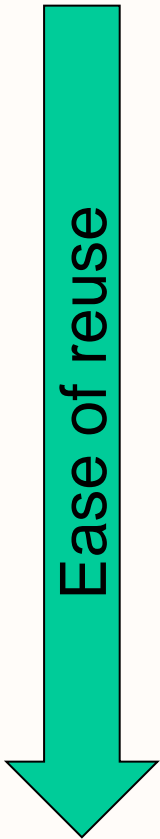


“Greater transparency will enable the public to hold politicians and public bodies to account”



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

Data Publishing – Star Quality



- ★ Put your data on the Web with an Open Licence (any format)
- ★ ★ Make it available as structured data (e.g. Excel, CSV, instead of PDF)
- ★ ★ ★ Use open, standard formats (e.g. XML, RDF)
- ★ ★ ★ ★ Use URLs to identify things (so people and machines can point at your data)
- ★ ★ ★ ★ ★ Link your data to other people's data

Ensure Privacy of Personal Data



<https://secure.flickr.com/photos/nathanmandjes/5606201919/>

Focus on data on things that people care about



<https://secure.flickr.com/photos/ell-r-brown/6620198909/>



<https://secure.flickr.com/photos/ictsan/3025907110/>



<https://www.flickr.com/photos/wudgeguy/3721713320/>



<https://secure.flickr.com/photos/creativecomputer/415482949/>



Using citizens to help improve data

NOVAM-Viewer
Help (OSM-Wiki)

Loading ...

Bus Stop | 471490514 v3

highway	bus_stop
name	Mount Pleasant Police Station
n:AtcoCode	2290YHA00806
n:Bearing	NW
n:CommonName	Mount Pleasant Police Station
n:Crossing	Dansom Lane
n:Landmark	Police Station
n:PlusbusZoneRef	HULL
n:ShortCommonName	Mount Pleasant
n:Street	Mount Pleasant
note	no code on sign; moved S; bearing should be SE This note needs to be removed to complete the stop
shelter	no
source	naptan + survey

Map Key

- Surveyed stop which has no NaPTAN tags
- NaPTAN Stop that has not been checked yet
- Stop with problems described in the note tag
- Stop has been checked and is okay
- Stop from NaPTAN which is not on the ground
- All other stops
- Arrows indicate the value of naptan.Bearing

Bus stops last updated: null

Colour Scheme

Hull (Chris Hill)

Open Data Ecosystem



Camden A-Z | Sitemap | Contact | Accessibility | AA

LIBRARY RECYCLE Where's my nearest?

You are here: [Home](#) → Where's my nearest...

Where's my nearest... Local information Green Camden Parking Recycling Sport

Job centre Please enter a Camden postcode or street:

Eight nearest job centres: [Find out more about job centres in Camden](#)

- A** 1.1km [Barnsbury Jobcentre Plus](#)
Telephone: 0845 604 3719
Opening hours: Mon-Fri 8.30am-5pm.
- B** 174-178 Kentish Town Road: 2.3km [Kentish Town Jobcentre Plus](#)
Telephone: 0845 604 3719
Opening hours: Mon-Fri 9am-5pm.
- C** 2.8km [St Marylebone Jobcentre Plus](#)
Telephone: 0845 604 3719
Opening hours: Mon-Fri 9am-5pm.
- D** 3.6km [Westminster Jobcentre Plus](#)
Telephone: 0845 604 3719

DATA PUBLICA
DONNÉES PUBLIQUES, OPEN DATA & DATA STORE

Trouver des données

PLATE DES DONNEES

les monopoles de la grande distribution

A Paris ou en province la grande distribution semble s'être partagé les territoires.

C'est ce que disent nos cartes et nos données.

Analyse

UK Open Data Institute



Develop capability of UK businesses to exploit value of Open Data

Engage developers/small businesses to build Open Data supply chains and commercial outlets

Help public sector use its own data more effectively

Ensure academic research in Open Data technologies



It's not (just) an IT project!

CIOs can give leadership, but

CIOs/IT Directors often do not “own” the data

Key issues are business, policy and politics: don't let policy makers brand it as “just IT”

Keep the IT simple

- use Open Source (CKAN, Drupal, etc)

- use existing contracts/infrastructure with niche firms

- host data on existing websites or on public Cloud

Use revealed legacy data quality issues as spur for improvement

- not as an excuse for doing nothing

Frequent concerns and excuses

We can not publish data because...

Ways to address this...

Our data is not reliable, the quality of our data is low, there is no consensus

Publish what you use!

Use open data to improve data quality

Privacy of people needs to be preserved

Use data anonymization techniques

National security, sensitive data

Establish a system to determine what data is threatening to national security

We sell our data, how will we replace those resources?

Very valid concern. Budget authorities need to understand that data is a public good and replace your budget



World
Bank

OPEN GOVERNMENT DATA How the World Bank Can Help?

How we help with Open Government Data

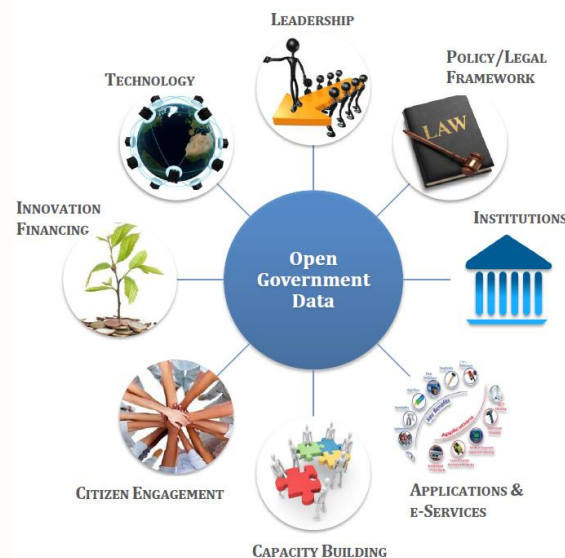
- ▶ **ASSESSMENTS AND ACTION PLANS**
- ▶ **KNOWLEDGE SHARING, ADVICE AND TRAINING**
- ▶ **STIMULATING INNOVATION USING OPEN DATA**
- ▶ **DEVELOPING CIVIL SOCIETY CAPABILITIES**

OPEN DATA READINESS ASSESSMENTS AND ACTION PLANS

Conduct an action-oriented assessment of the readiness of a country, sector, region or city - to evaluate, design and implement an Open Data initiative or a particular aspect.

Readiness Assessments and Action Plans piloted in:

- Ulyanovsk, Russian Federation
- Antigua and Barbuda
- Tanzania
- Rwanda
- Peru
- Mexico
- Burkina Faso



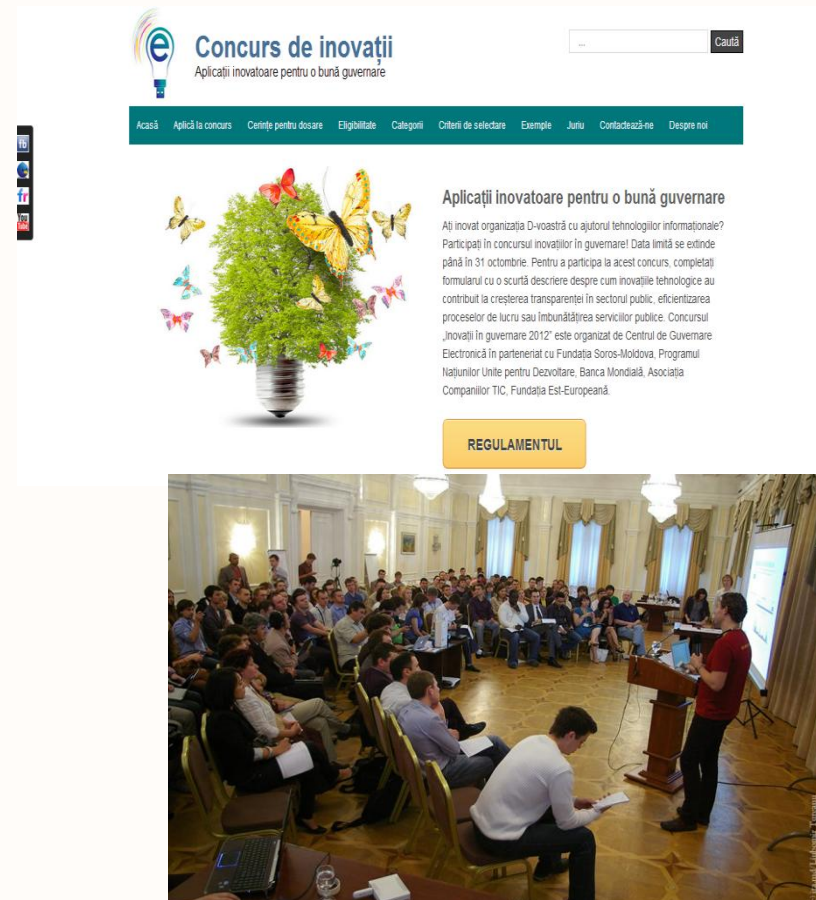
KNOWLEDGE SHARING, ADVICE AND TRAINING

- International Open Government Data Conferences
- Regional Conferences
- Country Workshops
- Technical assistance and reimbursable advisory services on open data

STIMULATING INNOVATION USING OPEN DATA

Bringing international experts and local talent together to make quick progress in using data in new, valuable ways.

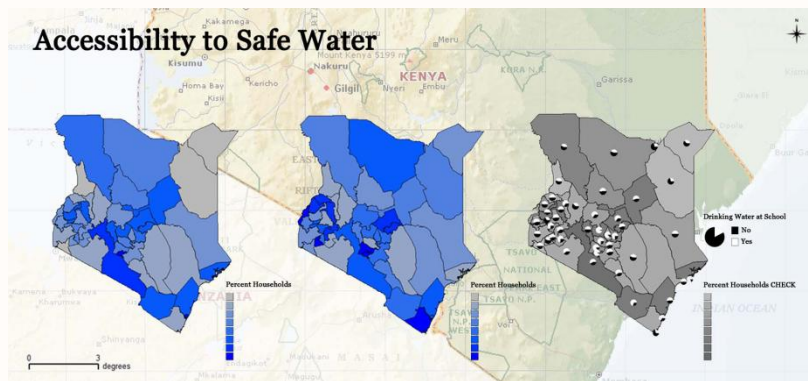
- Open Innovation Weeks and TechCamps
- Water, Transport and Sanitation Hackathons
- Apps contests
- Mobile Innovation Camps



The image shows a screenshot of the 'Concurs de inovații' website. The header features a logo with a lightbulb and the text 'Concurs de inovații' and 'Aplicații inovatoare pentru o bună guvernare'. A search bar is visible on the right. Below the header is a navigation menu with links: 'Acasă', 'Aplică la concurs', 'Centre pentru dosare', 'Eligibilitate', 'Categorii', 'Criterii de selecție', 'Exemple', 'Juriu', 'Contactează-ne', and 'Despre noi'. The main content area has a large image of a lightbulb with a green plant growing inside it, surrounded by colorful butterflies. To the right of this image is a text block titled 'Aplicații inovatoare pentru o bună guvernare' with a sub-heading 'Ați inovat organizația D-voastră cu ajutorul tehnologiilor informaționale? Participați în concursul inovațiilor în guvernare! Data limită se extinde până în 31 octombrie. Pentru a participa la acest concurs, completați formularul cu o scurtă descriere despre cum inovațiile tehnologice au contribuit la creșterea transparenței în sectorul public, eficientizarea proceselor de lucru sau îmbunătățirea serviciilor publice. Concursul 'Inovații în guvernare 2012' este organizat de Centrul de Guvernare Electronică în parteneriat cu Fundația Soros-Moldova, Programul Națiunilor Unite pentru Dezvoltare, Banca Mondială, Asociația Companiilor TIC, Fundația Est-Europeană.' Below this text is a yellow button labeled 'REGULAMENTUL'. To the right of the website screenshot is a vertical social media sharing bar with icons for Facebook, Twitter, LinkedIn, and YouTube. Below the website screenshot is a photograph of a man in a red shirt standing at a podium, presenting to a large audience seated in a grand hall.

DEVELOPING CIVIL SOCIETY CAPABILITIES

Organizing data journalism boot camps, making budget data easy to understand, producing foreign aid maps, and other initiatives to promote the effective, responsible use of open data.



SocialTools Data Gov.MD - Finances Worldbank.org - Information

OpenData SocialTools Moldova

Make open government data social. In a matter of minutes you could include live data on your blog, website or FaceBook page. To get started, just select the data source from the menu above and choose a service you would like to publish.

[Learn more »](#)

Latest data.gov.md documents

- Numarul si distributia cadrelor specializate pe instituti de invatamant secundar (2009-2010)
- Distributia cadrelor didactice pe clase de predare (2009-2010)
- Cadrele didactice dupa gradul stiintific (2009-2010)
- Date privind vechimea in munca a cadrelor didactice (2009-2010)
- Distributia cadrelor didactice dupa nivelul de studii (2009-2010)
- Date privind personalul managerial in institutiile de invatamant secundar (2009-2010)
- Angajarea institutiilor de invatamant secundar cu cadre didactice (2009-2010)
- Abandonul scolar (2009-2010)
- Activitatea extracurriculara (2009-2010)
- Activitatea scolara pe schimburi (2009-2010)

[Show more](#) [Publish to Facebook »](#) [Get widget »](#)

World Bank widget of the day: Top expenditures

World Bank Finances

Disbursed Amount USD | Undisbursed Amount USD

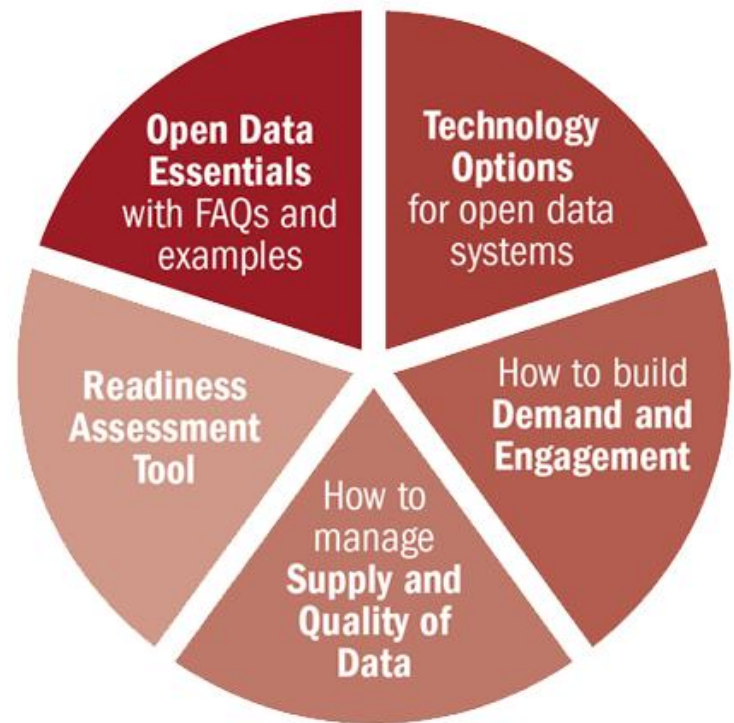
The widget displays a bar chart comparing 'Disbursed Amount USD' (red bars) and 'Undisbursed Amount USD' (green bars) across various categories. The y-axis ranges from 0.00 to 40.00M. The x-axis lists categories such as 'Foreign aid', 'Social investment', 'Social infrastructure', 'Transportation', 'Quality education', 'Health services', 'Rural infrastructure', 'Trade and transport', 'Disaster risk', and 'Information & communication'. The 'Foreign aid' category shows the highest disbursed amount, exceeding 40.00M.

© SocialTools Team 2012

Open Government Data Toolkit

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

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



POD: PARTNESHIP FOR OPEN DATA

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 initiatives
- Increase re-use of open data in developing countries
- Grow the base of evidence on the impact of open data for development



Fill in the form to help us supply you with relevant further details.

https://docs.google.com/forms/d/10jGnTIIHD5NQcCAU_fkObPpnBb3cOG2ZWf8tljE0ZUc/viewform?edit_requested=true



Thank you!

Oleg Petrov
Senior Program Officer
ICT @ The World Bank

opetrov@worldbank.org
[@oleg2030](#)