

A person in a grey suit stands in the center of a tunnel-like structure. The walls and floor of the tunnel are composed of a dense, flowing stream of binary code (0s and 1s) in shades of green and yellow. The perspective is from a low angle, looking up at the person, creating a sense of depth and immersion in a digital space.

Open Data

A global perspective

Data ?

“Presentation of facts and ideas in a formalized manner suitable for the transmission and processing of some information process.”

Finally Data is the human knowledge:
understanding of nature or man-made
mechanism

Open data ?

It can be summed up in the statement:

“ A piece of data or content is open if anyone is free to use, reuse, and redistribute it”

- See more at: <http://opendefinition.org/>

Open data philosophy

- is the idea that certain [data](#) should be freely available to everyone to use and republish as they wish, without restrictions from [copyright](#), [patents](#) or other mechanisms of control.
- The goals of the open data movement are similar to those of other "Open" movements such as [open source](#), [open hardware](#), [open content](#), and [open access](#).
- The philosophy behind open data has been long established, but the term "open data" itself is recent, gaining popularity with the rise of the [Internet](#) and [World Wide Web](#) and, especially, with the launch of open-data government initiatives such as [Data.gov](#) in US and [Data.gov.uk](#) in UK.

Open Data sources

[open government data](#), is a tremendous resource that is as yet largely untapped.

- Government data is public data by law, and therefore could be made open and made available for others to use.

Many individuals and organizations collect a broad range of different types of data in order to perform their tasks [open corporate data](#).

Why is that of interest?

- It is already possible to point to a large number of areas where open government data is creating value. Some of these areas include:
 - Transparency and democratic control
 - Participation
 - Self-empowerment
 - Improved or new private products and services
 - Innovation
 - Improved efficiency and effectiveness of government/corporate services
 - Review Impact measurement of policies
 - New knowledge from combined data sources and patterns in large data volumes (Big Data, DBpedia)

Open data license

- **Creative Commons** (devoted to expanding the range of creative works available for others to build upon legally and to share)
- **Respective country origin licensing**
 - E.g.. Open Government Canada License V2
- **Features**
 - Free to Copy, modify, publish, translate, adapt, distribute or otherwise use the Information in any medium, mode or format for any lawful purpose.
 - Acknowledge the source
 - does not grant you any right to use: personal information, copy rights materials,
 - Non-endorsement
 - No warranty

Interesting historic open data implementations

- ***Dr. John Snow's*** classic investigation of the cholera epidemic in London in **1854** discovered the modern epidemiology. He used address of patients and municipal grid and discovered Broad St. water pump was the source of cholera outbreak.



Interesting current citizen developed applications

Find dentist in England – using open data released by National Health Services (7,500 dentist)

An application presented in www.opendata.uk

UK Dentists

Find your nearest NHS dentist quickly and easily!

The National Health Service has over 7,500 dental surgeries across England but finding one can be a difficult and time consuming task. This app is based on data provided by the UK's Health and Social Care Information Centre (HSCIC)* and covers 99.4% of all registered NHS dental surgeries in England.

Search for an NHS dentist around your current location, or look for one in another area (where you may be moving to, or for a friend) via a simple place name or postcode search. Distances can be displayed in metric or imperial units (configured in the application preferences).

UK Dentists uses the built in GPS on the iPhone to get your current location, but can also locate an iPod Touch in built-up WiFi areas. If your location cannot be determined automatically then you can always enter your post code to get started. Please note that an internet connection is required to get location and map data.

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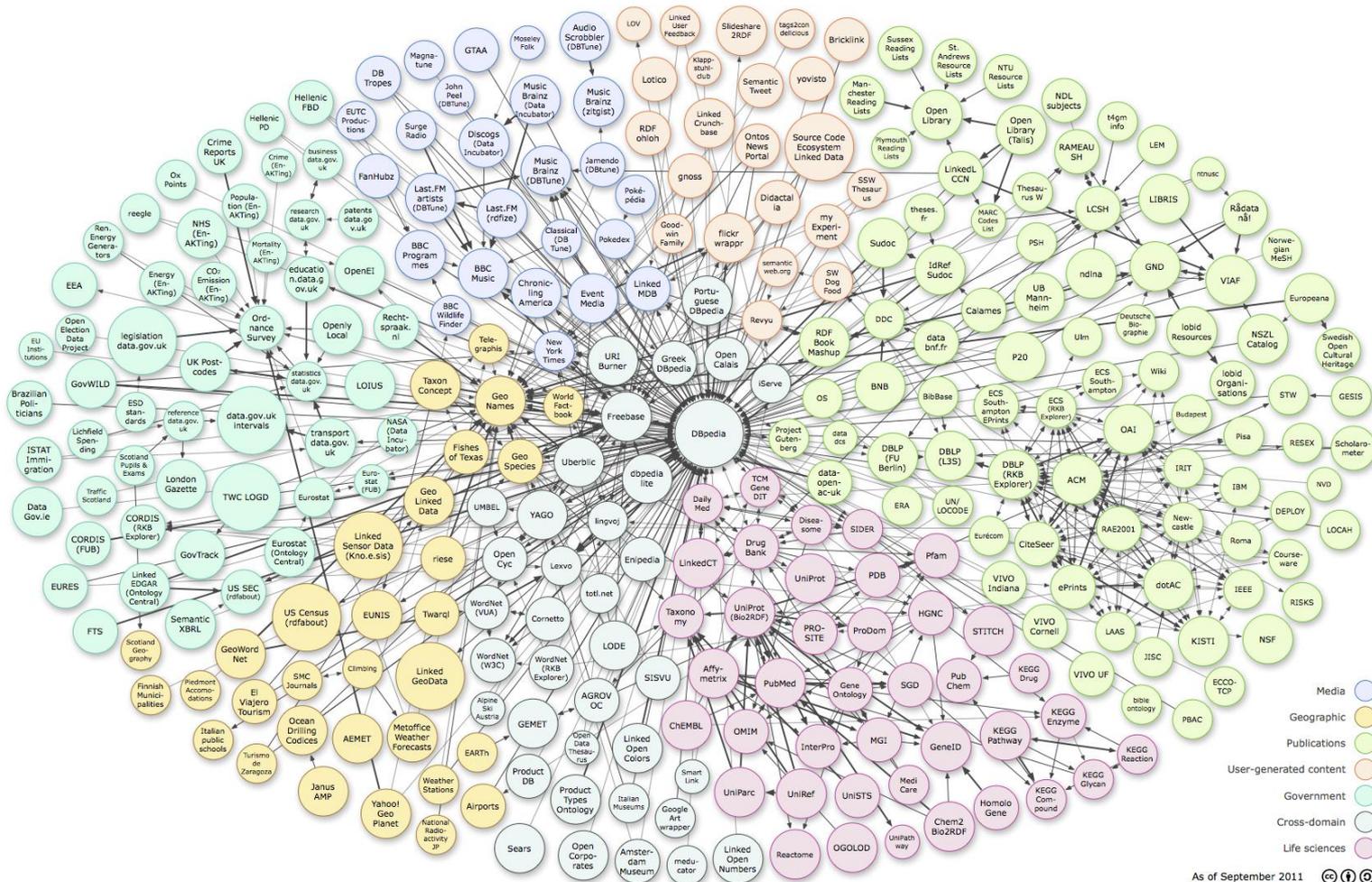
Application Screenshots

Click on any of the images to see a larger version

The screenshot shows a web browser window with the following elements:

- Navigation Menu (Left):** Home, News, Apps, Find Banks & ATMs, Find GPs, Find Pharmacies, Find Postboxes, Find Pubs & Bars, Find Recycling, Find Toilets, SF Trees, UK Dentists (highlighted), Support, Contact.
- Main Content:** Title 'UK Dentists', a search form with 'tar file open' in the input field, and a list of application screenshots.
- Application Screenshots:** Four small images showing the app's interface on an iPhone/iPod Touch, including a map view, a search form, and a list of dental practices.
- Browser Interface:** Windows Internet Explorer window titled 'UK Dentists for iPhone and iPod Touch - Windows Internet Explorer'. The address bar shows 'http://www.elbatrop.com/ukdentists'. The browser's menu bar includes File, Edit, View, Favorites, Tools, Help. The status bar at the bottom shows the Windows taskbar with various open applications and the system clock at 1:52 PM.

Interesting future open data implementations



DBpedia cloud

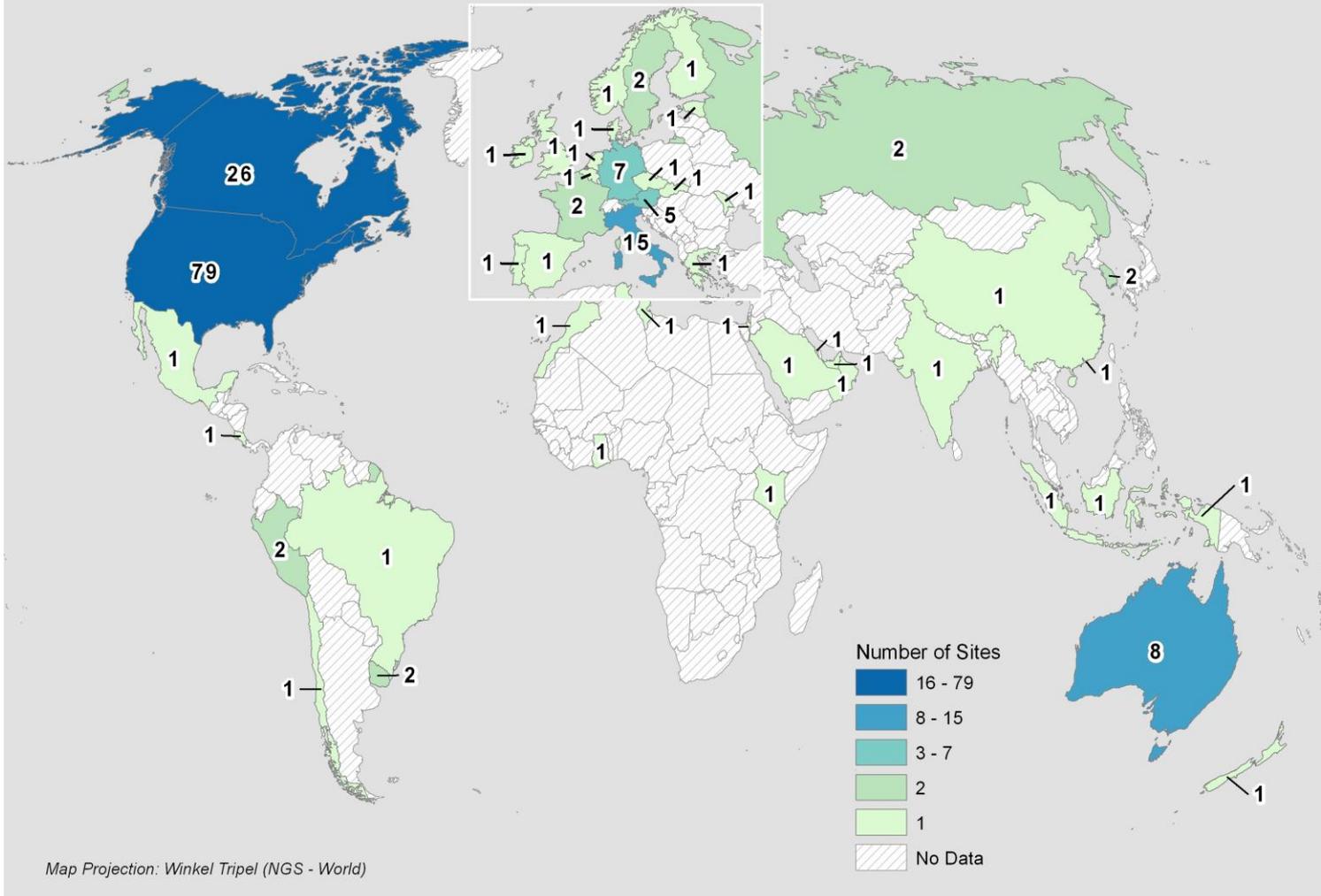
Open Government Partnership

- **What is the Open Government Partnership?**
- OGP was launched in 2011 to provide an international platform for domestic reformers committed to making their governments more open, accountable, and responsive to citizens.
- Since then, OGP has grown from 8 countries to the 60 participating countries at this point of time.
- In all of these countries, government and civil society are working together to develop and implement ambitious open government reforms



Open data Global level

Open Gov Data initiatives around the world



Country	No of sites initiated
Australia	8
Austria	5
Bahrain	1
Belgium	1
Brazil	1
Canada	26
Chile	1
China	1
Costa Rica	1
Czech	1
Denmark	1
Estonia	1
Finland	1
France	2
Germany	7
Ghana	1
Greece	1
Hong Kong	1
India	1
Indonesia	1
Ireland	1
Israel	1
Italy	15
Kenya	1
Mexico	1
Moldova	1
Morocco	1
Netherlands	1
New Zealand	1
Norway	1
Oman	1
Peru	2
Portugal	1
Republic Of Korea	2
Russian Federation	2
Saudi Arabia	1
Singapore	1
Slovakia	1
Spain	1
Sweden	2
Timor-Leste	1
Tunisia	1
United Arab Emirates	1
United Kingdom	1
Uruguay	2
USA	79

60 countries, over 200 online sites

Open data at national level leading countries

- United state www.data.gov
91,000 [datasets](#) , 349 citizen-developed [apps](#), 137 [mobile apps](#), 175 [agencies](#).
- United Kingdom www.data.gov.uk
16,000 [datasets](#), 312 citizen-developed [apps](#)
- India www.data.gov.in
5,000 [datasets](#), 7 citizen-developed [apps](#)
- Italy www.dati.gov.it
5,800 [datasets](#),
- Australia www.data.gov.au
500 [datasets](#),

Challenges of open data in Canada

- Federal initiative www.data.gc.ca
- Only very few provinces in action
 - Ontario www.ontario.ca/open :22 October 2013
 - British Columbia DataBC: <http://www.data.gov.bc.ca/> July 19, 2011
 - Alberta <http://data.alberta.ca/> May 28, 2013 about 300 datasets
 - Other provinces not yet ready ?
- Several municipalities also now launched their open data.
Toronto : www.toronto.ca/open
- Comparatively not in quality of the leading countries. Yet to develop.
- Strong privacy laws and personal data protection strategies are real obstacles for open data Canada ?

Challenges of SAS as an analytical tool

How to deal with the Open Data

Thank you

References

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