

The “*Big*” Factor in Data, Civic Media: New Patterns of Governance



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Is the Paperless Office an Illusion?



Or has it been replaced with
this.....





**90% of the world's Data has been
generated since 2010**

***Everyday, we create 2.5 quintillion bytes
of data***

The Rise of Apps.....

- 331.6 million subscribers in US nearing 40% smart phone penetration.
- By the end of 2012 there will be more smartphones than humans on the planet!
- Cisco predicts by 2016 two-thirds of world traffic will be from video.
- Tablets and other mobile devices to surpass laptops soon.

New York and Twitter

News Topics

E-Government

Emerging and Sustainable
Technology

Health and Community
Services

IT Policy/Mgmt/Enterprise
Tech

Justice and Public Safety

Products

Transportation and
Infrastructure

Wireless/Mobile/Broadband

View All News Topics...

GT Network of Sites

Digital Communities

Emergency Management

Public CIO

» NYC Takes to Twitter During Hurricane Sandy



October 30, 2012 By Jessica Mulholland

Tweet 17

Data & GIS



FEMA GeoPortal Online



**FEMA MOTF-Hurricane
Sandy Impact Analysis**



**Hurricane Sandy - Red
Cross Chapters Assets**



**Hurricane Sandy-Remote
Sensing Collection**



Hurricane Sandy



Canary in a data mine: How analytics detects early signs of bio threats



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NASA applies deep-diving text analytics to airline safety

By Patrick Marshall | Oct 26, 2012

This is the first of a four-part series about text analytics.

NASA's Aviation Safety Program has been applying a powerful, emerging data tool to the business of making the skies more friendly, using text analytics to scan hundreds of thousands of unstructured text reports made by pilots, mechanics and other workers to



What's the Big Deal with Big Data??

1. The volume of information;
2. The variety of information; and
3. The velocity of information (which is the speed at which data becomes available and can be analyzed).
4. Social media generates big data

Big Data and Large Cities

- Chicago – first U.S. City to hire a “*Chief Data Officer*” followed by Philadelphia, then San Francisco....
- Why? And What Will They Actually Do?



Answer

1. Allow for better decisions.
2. Stimulate innovation.
3. Foster greater collaboration.
4. Promote predictive analytics.
5. Conserve financial resources.
6. Become more effective, efficient, and equitable.

What we Know....

- Most Cities “Tweet”
- Most Cities have a Facebook page
- Most Cities have some form of 311 system
(over 15 million calls (data) per year in New York City)
- Census data
- Tax data, etc.
 - Nearly every City collects, knowingly or not, tons of data...

- › Business and Trade
- › Council and Government
- › Council Tax and Benefits
- › Housing
- › Jobs and Careers
- › Leisure and Community Life
- › Libraries
- › Parking, Transport and Streets
- › Planning
- › Schools, Education and Learning
- › Social Care and Health

Aberdeen City Council Open Data

Aberdeen City Council Open Data

What is Open Data?

Open data is about increased transparency, about sharing the information we hold with the wider community to build useful applications.

We're always looking



OPEN DATA SITES

Data.gov is leading the way in democratizing public sector data and driving innovation. This movement has spread throughout cities, states, and countries.



If you would like to be part of this community and help to shape its future, [join in the discussions](#) going on now.

We are encouraging and working with countries, cities, and organizations internationally, who have launched their own sites with access to machine-readable data. The map below provides easy access on mouseover or clickable country flags or symbols list to the international organization data sites that have been launched.



Pillar I: Digital Single Market

- ▶ Action 1: Simplifying pan-European licensing for online works
- ▶ Action 2: Preserving orphan works and out of print works
- ▶ Action 3: Open up public data resources for re-use
- ▶ Action 4: Wide stakeholder debate on further measures to stimulate a European online content market
- ▶ Action 5: Simplifying the distribution of creative content
- ▶ Action 6: Protecting intellectual property rights online
- ▶ Action 7: Fix a date for migration to Single European Payment & eInvoicing

Pillar I: Digital Single Market




Too many barriers still block the free flow of online services and entertainment across national borders. The Digital Agenda will update EU Single Market rules for the digital era. The aims are to boost the music download business, establish a single area for online payments, and further protect EU consumers in cyberspace.

List of Actions

- ▶ Action 1: Simplifying pan-European licensing for online works
- ▶ Action 2: Preserving orphan works and out of print works
- ▶ Action 3: Open up public data resources for re-use
- ▶ Action 4: Wide stakeholder debate on further measures to stimulate a European online content market
- ▶ Action 5: Simplifying the distribution of creative content
- ▶ Action 6: Protecting intellectual property rights online
- ▶ Action 7: Fix a date for migration to Single European Payment & eInvoicing
- ▶ Action 8: Revision of the eSignature directive
- ▶ Action 9: Updating the eCommerce Directive

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Urban research

The laws of the city

A deluge of data makes cities laboratories for those seeking to run them better

Jun 23rd 2012 | from the print edition

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Stockholm Big Data

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Big data.

As the cost of computing power, data storage and high-bandwidth Internet access have plunged over the past two decades, companies around the globe (and in Stockholm) have recognized the power of data in their business. The meetup is devoted to exploring the field of big data, data science and predictive modeling and all opportunities and challenges it encompasses. Whether you use big data to describe the past or predict the future, you are all welcome to join the meetup and meet, greet and exchange ideas with each other!

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By creating a Meetup account, you agree to the [Terms of Service](#)

Stockholm, Sweden

Founded Apr 25, 2012

Data Scientists 246

Group reviews 3

Upcoming Meetups 1

Past Meetups 1

Our calendar 

We're about:

Big Data · Predictive Modeling ·
Machine Learning · Data Visualization
· Data Analytics · Big Data Analytics ·
Data Mining · Predictive Analytics ·
Business Intelligence · Internet &

Welcome!

[+ JOIN AND SUGGEST A NEW MEETUP](#)[Upcoming 1](#)[Suggested 0](#)[Past](#)[Calendar](#)

Big Data in Health Care

The Hub Stockholm

Tue Nov 27

What's new





On-Going Challenges.....

- Training
- Staffing
- Budget
- Cooperation
- Coordination
- System capacity
- Knowledge management
- Predictive analytics

**Officially
launching
November 13th
in Barcelona**

*Created to share
information and data
using a common
protocol.*





YEARS OF
TECHNOLOGY
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