The "Big" Factor in Data, Civic Media: New Patterns of Governance



Dr. Alan R. Shark Executive Director, Public Technology Institute and Associate Professor of Practice, Rutgers University School of Public Affairs & Administration



SHAPING A CONNECTED DIGITAL FUTURE

Visions, Challenges, Opportunities for Organizations and People in a Smart World Monday 12th & Tuesday 13th November 2012, Stockholm

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





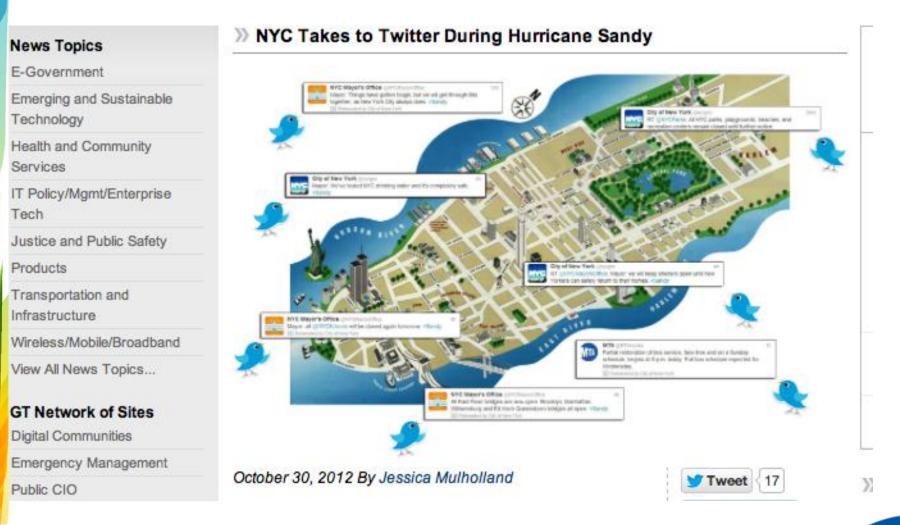
The Rise of Apps.....

- 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.





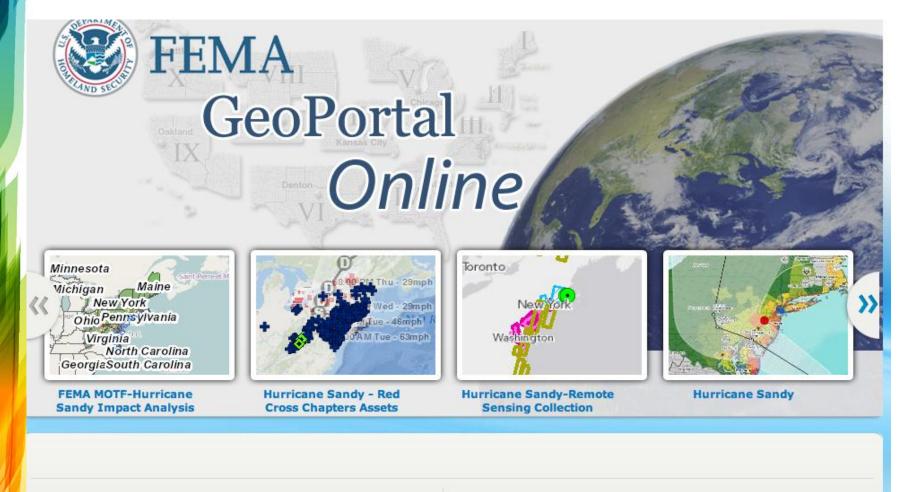
New York and Twitter



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Data & GIS











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









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

 <u>Chicago</u> – first U.S. City to hire a "*Chief Data Officer*" followed by <u>Philadelphia</u>, then <u>San</u> <u>Francisco</u>....

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...





How can we help you...

Pay it

Book it

Check it

Report it

Apply for it

- > 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

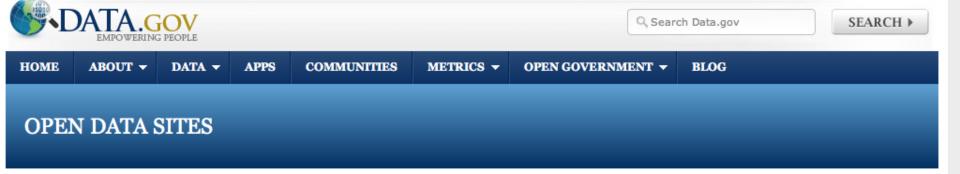
What is Open Data?

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

We're always looking







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

U.S. States	U.S. Cities and Counties	Agencies and Subagencies	International
35	19	180	35

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.







DIGITAL AGENDA FOR EUROPE

A Europe 2020 Initiative

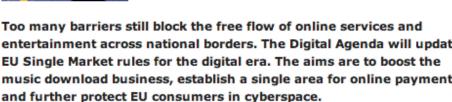
European Commission / Digital Agenta for Europe / Our Targets								
Home	Our Targets	Digital Life	Business & Funding	Science and Technology	Telecoms & the Internet	Creativity & media	Around the World	

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



List of Actions

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- 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

Search the site

Too many barriers still block the free flow of online services and entertainment across national borders. The Digital Agenda will update music download business, establish a single area for online payments,







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





Stockholm Big Data					
Home Members Photo	s Discussions More -	Join us!			
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!				
Stockholm, Sweden Founded Apr 25, 2012		Who do I know here? og in with Facebook to find out g a Meetup account, you agree to the Terms of Service			
Data Scientists246Group reviews3Upcoming Meetups1	Welcome!	What's new			
Past Meetups 1 Our calendar	JOIN AND SUGGEST A NEW MEETUP				
We're about: Big Data · Predictive Modeling · Machine Learning · Data Visualization	Upcoming 1 Suggested 0 Past Calendar				
Data Analytics · Big Data Analytics · Data Mining · Predictive Analytics · Business Intelligence · Internet &	Big Data in Health Care The Hub Stockholm	Tue Nov 27			

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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 LEADERSHIP

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