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Making Data More Available and Usable: A Getting Started Guide for Public Officials

Theresa A. Pardo, Ph.D.

Privacy, Big Data, and the Public Good – Book Launch
New York Academy of Sciences
June 16, 2014



The (new) government data imperative

• In order to bring government data to data scientists and public policy professionals and to benefit from big data in their own programmatic efforts, every type of agency must think differently about how they collect, manage, use and share data.

My Bio a classic versioning issue...

- Open NY Policy Adviser to New York State's Governor Andrew Cuomo.
- Expert Advisor to the GovLab Open Data 500 Project, NYU.
- International Advisor to the E-Government Committee for the China Information Association, China.
- President, Digital Government Society, a global multi-disciplinary organization of scholars and practitioners interested in the development and impacts of digital government.
- Member, U.S. Government Accountability Office, Executive Council on Information, Management, and Technology.
- Adviser to the Data Center for Applied Research in Social Sciences at Centro de Investigacion y Docencia Economicas (CIDE), Mexico City.
- Senior Adviser to the Informatization Research Institution, State Information Center, China.





January 31, 1993 Milestones & Honors

Governor Mario Cuomo Initiates a Center for Technology in Government

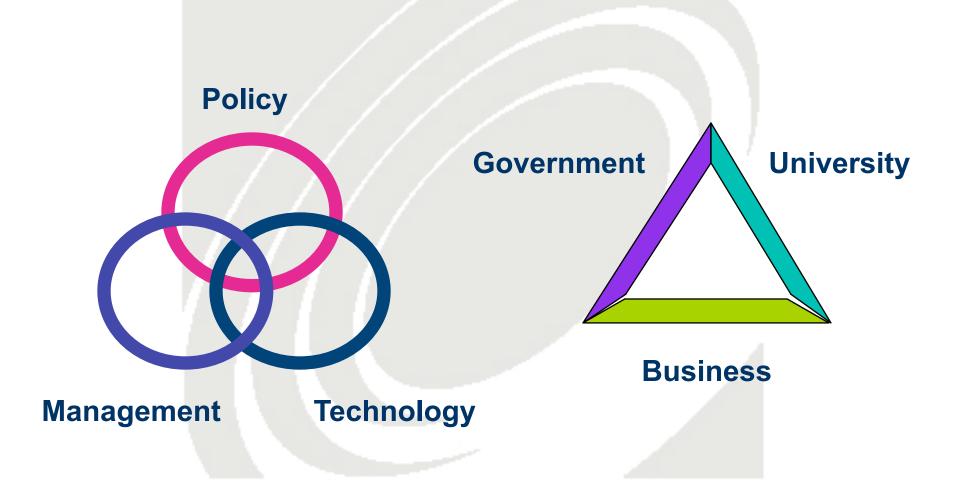
"We will set up a **Center for Technology in Government** to pursue new ways of applying technologies directly to the practical problems of information management and service delivery in the public sector — focusing on increasing productivity, reducing costs, increasing coordination, and enhancing the quality of government operations and public services."

—New York State Governor Mario Cuomo, 1993 State of the

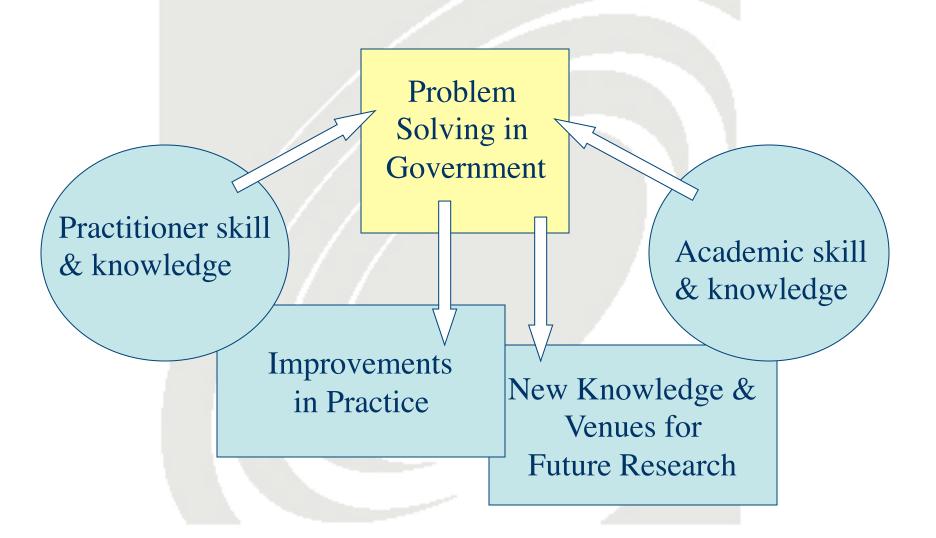
State Address



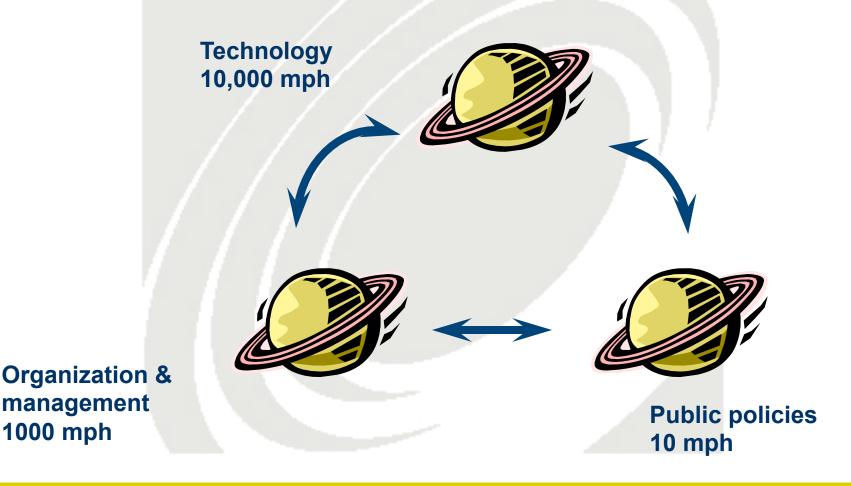
CTG's Focus and Partners



Research-Practice Partnerships



The Government Innovation Context





management

1000 mph

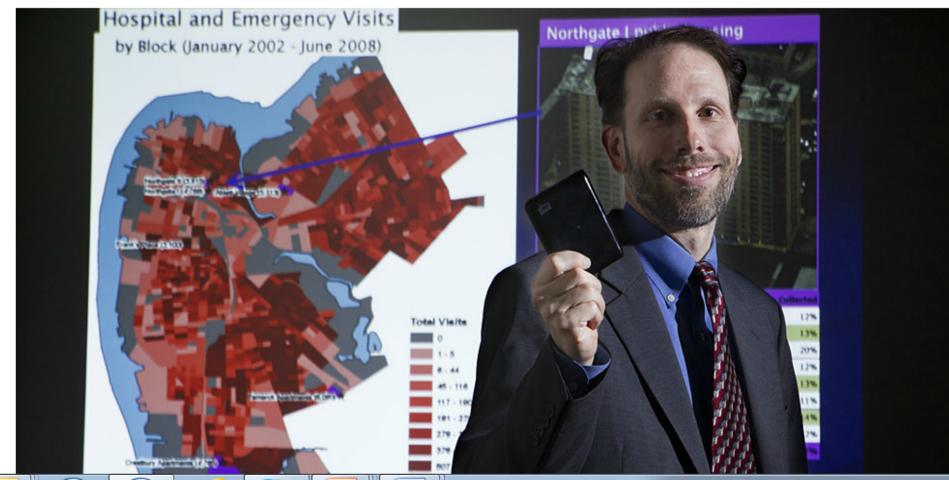




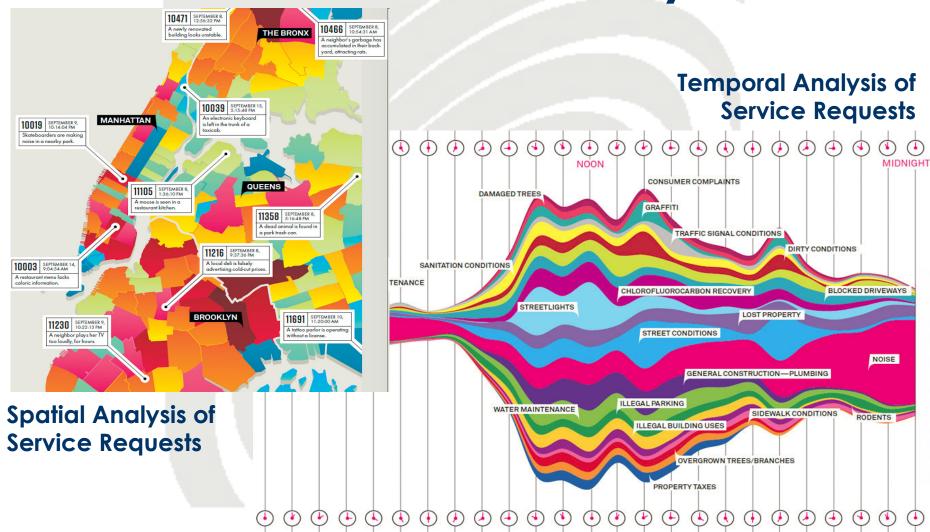
How 'big data' is changing lives

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Take a look at his global snapshots - compiled in his book The Human Face of Big Data.



New understanding about life in a city







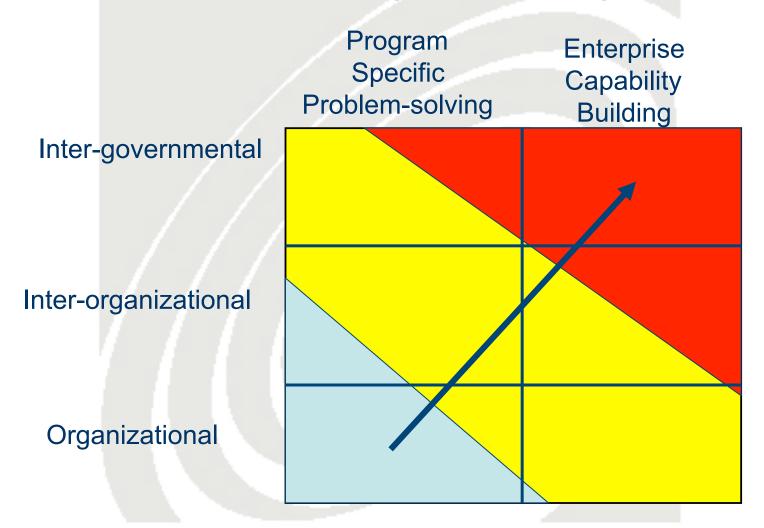
Making data more accessible and usable

• The advent of big data has caused a growing appreciation for the challenges of creating government data infrastructures that have the policy, management and technology components necessary to be both robust and sustainable.

• For most government agencies – meeting these challenges are unfamiliar and impose responsibilities that compete for resources within their traditional programs.



Information Sharing Complexity Matrix



Making Data More Available and Usable

- Resources becoming increasingly available
 - Conceptual Frameworks
 - Practical Frameworks
 - Statistical Frameworks
- Need new capability at all levels of government and across disciplines and policy silos to leverage these resources
- Where to start?

Back to Basics: Government's information roles

Information collector, producer, provider & user **Regulator of information** flow in society





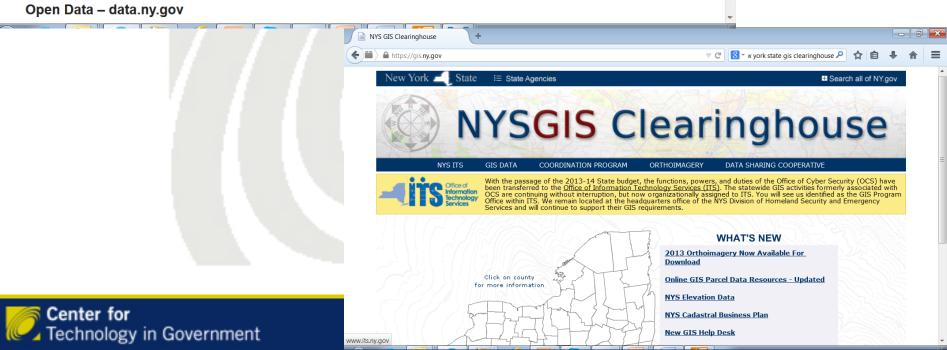
Principles of information use within government



Dawes, 2010







Making Data More Available and Usable: A Getting Started Guide

- 1. Build awareness of public value potential and comfort with the new reality big data
- 2. Leverage and invest in collaboration capability
- 3. Create new or strengthen existing enterprise* portfolio governance
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Economic Value

income, asset values, liabilities, entitlements, risks to these



family or community relationships, social mobility, status, identity.



Political Value

personal or corporate influence on government & politics.

What is the Public Value of XXXXX?

Quality of Life Value

security, health, recreation, personal liberty

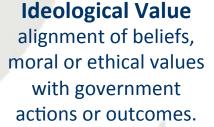


Strategic Value

economic or political advantage or opportunities, goals, resources for innovation or planning.

Stewardship Value

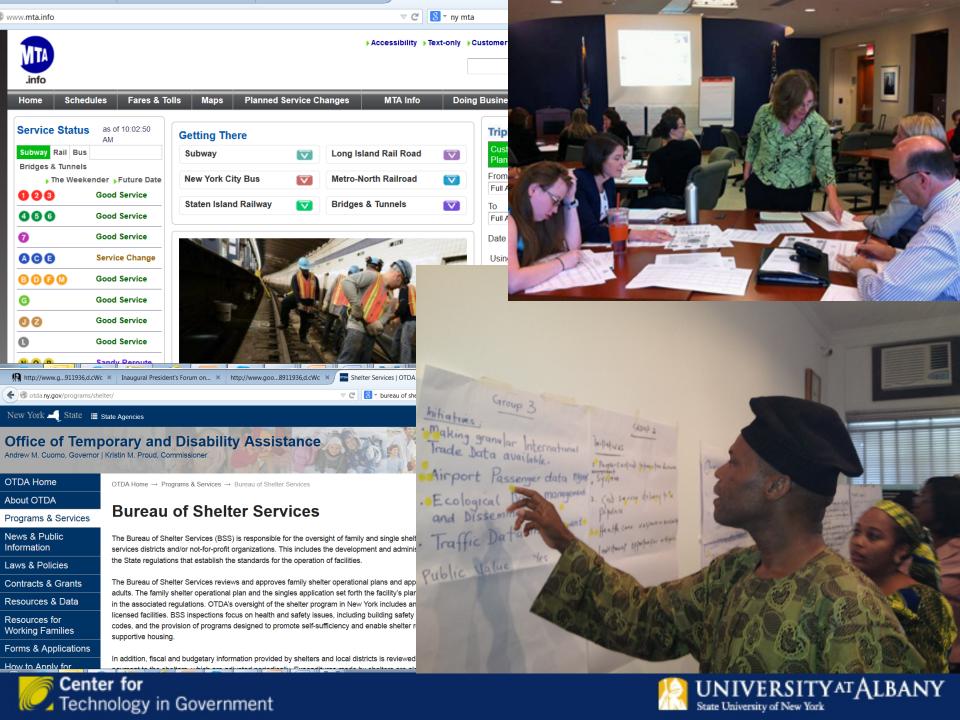
public's view of government officials as faithful stewards.











Classic Tensions

- Unknowns about users and uses
 - Who are the likely users?
 - What will people do with it?
 - What will they learn about us before we learn it about ourselves.
- Concerns about data quality and the implications for related decisions
 - Metadata, level of granularity, cleanliness, format, context and more...
- Competing priorities due to high political interest and public visibility of open data programs.



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RESOURCES

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About the Open Health Data, Open Opportunities Workshop



How can releasing millions of data points improve the health of New Yorkers? This interactive workshop brought together researchers and practitioners to explore how open health data can be a viable new resource for health research and developing innovative health interventions.

Background, objectives, and list of participants

Open Data Resources



Half the battle is just finding information. Participants received a white paper on how to use open data in the classroom and links to open health data portals.

Classroom handout and open data portais

Exploring Ways to Collaborate



The day concluded with a plenary panel on how open data provides opportunities for health researchers and state government to collaborate. See the discussion

Sponsors



The workshop was supported by the New York State Health Foundation. The Center for Technology in

Government co-organized the event.

Speakers, Panelists, and Keynote



We have provided the Powerpoint and audio of all presentations. The list of speakers included Dr. Nilrav Shah; Ms. Courtney Burke; Dr. Guthrile (Gus) Binkhead; Ms. Tania Alliard; Dr. James Knickman; Dr. Thomas Gals; Dr. Theresa Pardo; and Dr. Hao Wang.

Link to presentations and video

Engaging Health Researchers as Users



During break-out sessions participants discussed research priorities and open data wish lists.

NYS DOH practitioners joined the small groups to share their knowledge and ideas. Groups reported out to the larger group.

Summary report (forthcoming)

Join the Conversation



We want to continue the conversation. If you have Ideas or comments on open health data, the workshop, or examples of how you have used open data share them with the community! We'll post the feedback.

Leave a comment



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Cities and Neighborhoods

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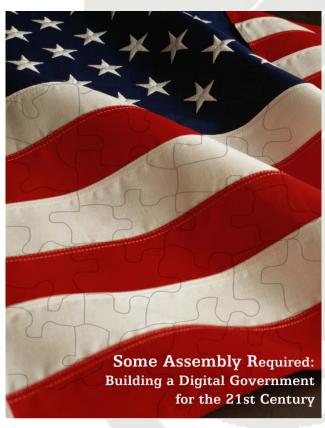
The Nelson A. Rockefeller institute of Government | The Public Policy Research Arm of the State University of New York
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Recognizing the quintessential underlying problems of eGovernment



"Advanced IT applications in government must *integrate* policies, processes, information, and technology."

"What is technically possible may not be organizationally feasible or politically or socially desirable."



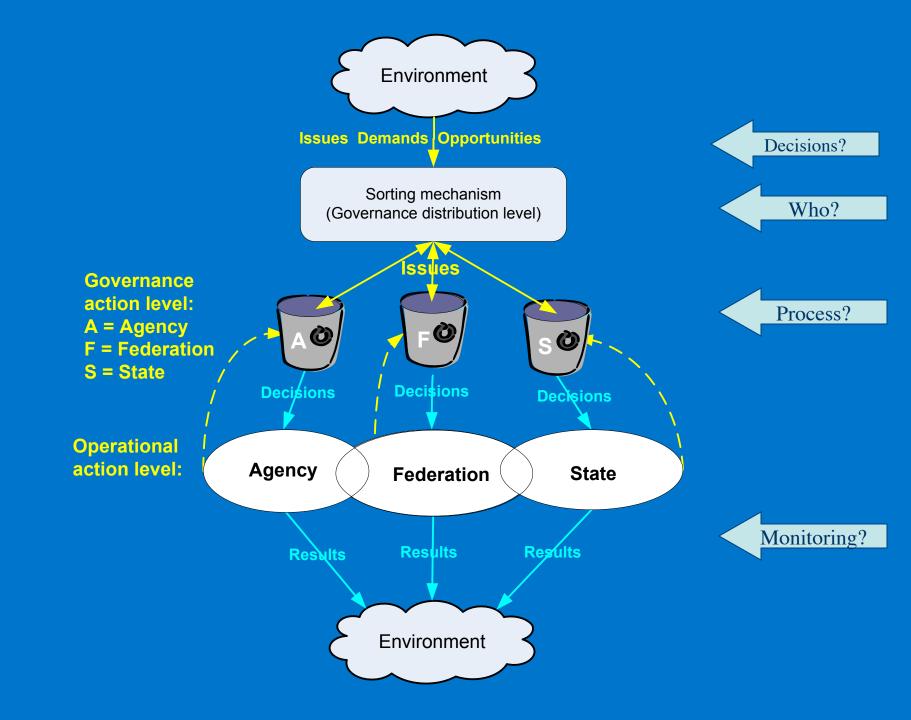
Governance

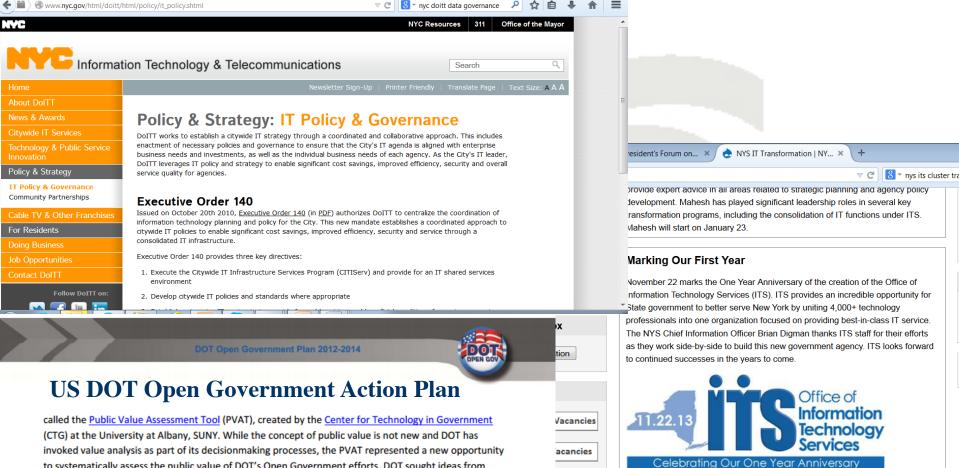
Answers the questions:

- What decisions must be made?
- Who should make these decisions?
- How will decisions be made?
- What is the process for monitoring results?

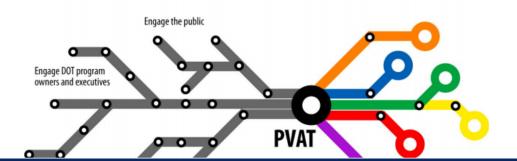
(Weill & Ross, 1999)







called the <u>Public Value Assessment Tool</u> (PVAT), created by the <u>Center for Technology in Government</u> (CTG) at the University at Albany, SUNY. While the concept of public value is not new and DOT has invoked value analysis as part of its decisionmaking processes, the PVAT represented a new opportunity to systematically assess the public value of DOT's Open Government efforts. DOT sought ideas from multiple sources for activities to include in the Plan that would align with the goals of Open Government. Ultimately, these activities were grouped into similar categories, and prioritized to select our flagship initiative for 2012-2014. The following section will describe in more detail how ideas for activities were sought, how activities were assessed for public value, and how our flagship initiative was selected.





Governor Cuomo Announces Agreement with



ech.com/state/Which-States-and-Cities-Have-Chief-Data-Officers.html











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Which States and Cities Have Chief Data Officers?

Ranks of government CDOs grow as agencies implement analytics.

BY STEVE TOWNS / JUNE 13, 2014















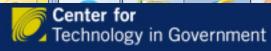
Click on the pinpoints in the map above to see the various chief data officers in state and local government, and in education. Blue signifies a state-level officer, green signifies a local-level officer, and yellow signifies an officer in education.

From Our Sister Sites



How Government's Using Behavioral Economics to Get People to Make Better Decisions Federally funded projects in several states and localities are testing ways to use convenience and peer pressure to get prison inmates and people who owe child support to make better decisions.







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New York 🗉





New York State Division of Criminal Justice Services

Andrew M. Cuomo Governor

ENHANCING PUBLIC SAFETY AND IMPROVING CRIMINAL JUSTICE

Community Resources

AMBER/Missing Child Alerts

Current Alerts

Crime Victims Assistance

Internet Safety

Juvenile Justice Reform

Re-entry Initiatives

Law Enforcement

Accreditation

Crime Reporting

Forensic Science / DNA

Fingerprint Services

Forms

Operation IMPACT

Probation / Alternatives

Sexual Offense Kits

Technology

Missing Persons | Sex Offenders | Statistics

eJusticeNY

eJusticeNY is a browser-based application designed to give users from qualified agencies a single point of access to computerized information within and beyond New York State. eJusticeNY embodies the concept of coordinated and integrated criminal justice information systems for New York State. The system's security and ease of use allow qualified users to obtain current status information for a defendant at any key decision point in the processing of a criminal case. An example of a key decision point when immediate is critical is the initial arraignment of a criminal defendant. A judge must decide if the individual can be releated to ensure his or her appearance at subsequent court proceedings. The court's ability to use eJusticurrent information regarding the individual's status, both within and beyond New York State, including with wanted in another jurisdiction, and to do so by a simple and secure inquiry from an office personal computation is sound and the interests of public safety are well served.

What is the goal of eJusticeNY?

The goal of eJusticeNY is simple: to give qualified users "one-stop shopping" access to the information ne mission.

What can users do with eJusticeNY?



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Information Sharing and Coordination Challenges in Financial Market Regulation

A research agenda setting workshop

November 14, 2013 | Washington, DC 20F Street Convention Center



INSTITUTE FOR FINANCIAL MARKET REGULATION

Why a Research Agenda?

- The use of information and communication technology in financial markets has accelerated while research on the interactions between technology and organizational and behavioral dynamics of financial market regulation has lagged.
- Information sharing in support of market regulation impacted by system complexity, incentives, trust and standards.





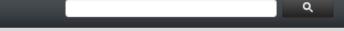


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DATA

Data Governance: The Public Sector's Next Big Frontier

Managing and organizing data is the next phase of state and local government's hopeful metamorphosis.

BY COLIN WOOD / APRIL 29, 2014



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Collect information and ask questions later has become the mantra of organizations everywhere. The National Security Agency records something like 3 billion phone calls every day, along with emails, text messages and who knows what else of the American public. But given how young the big data movement is, it's unlikely the agency has found a way to make use of all its information — and smaller organizations, like cities and states, haven't either. Managing and organizing data is the next phase of the public sector's hopeful metamorphosis.

The National Association of State Chief Information Officers (NASCIO) has been pushing the idea for years, in issue briefs and personal interactions with IT leaders across the country, said Doug Robinson, the association's executive director. But now that data collection tools are







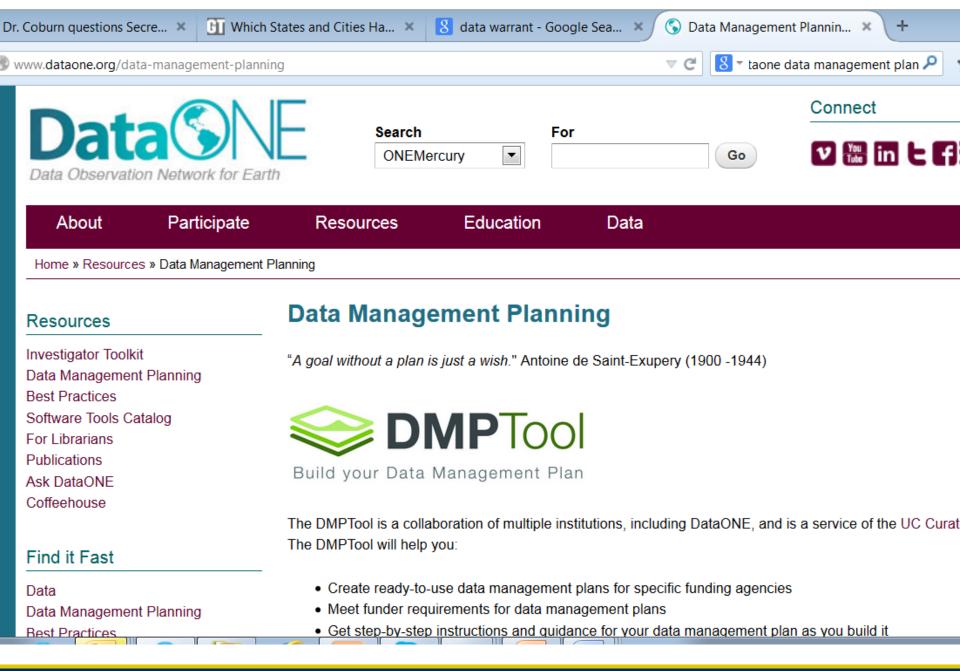




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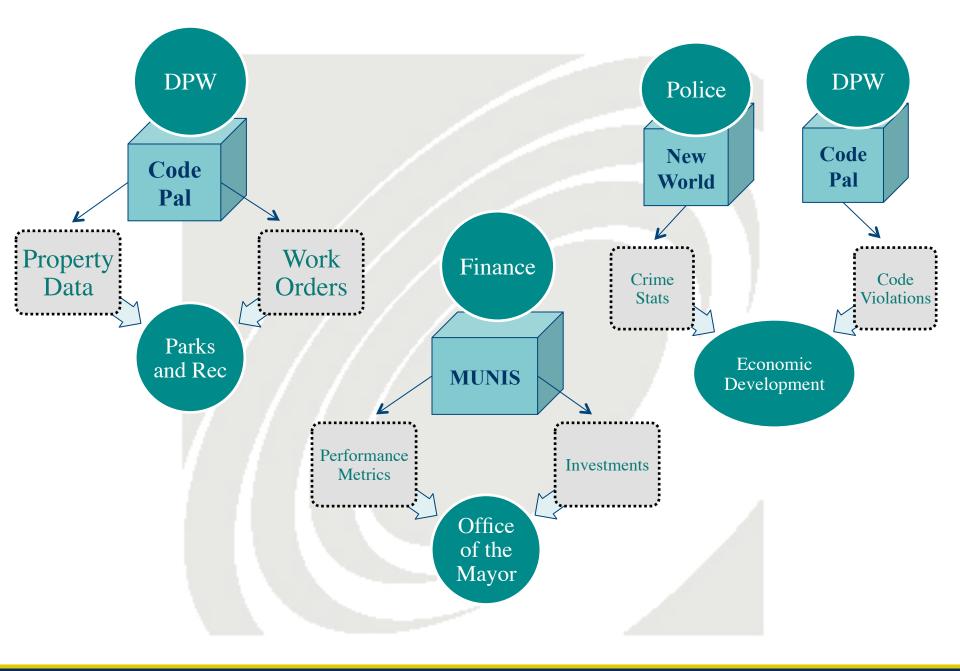
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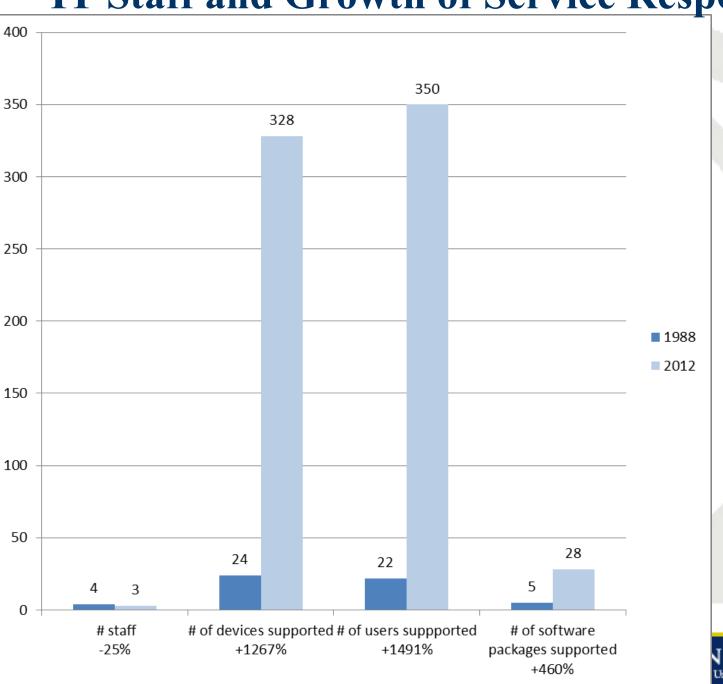


A Smarter Binghamton





IT Staff and Growth of Service Responsibilities



1988-2012

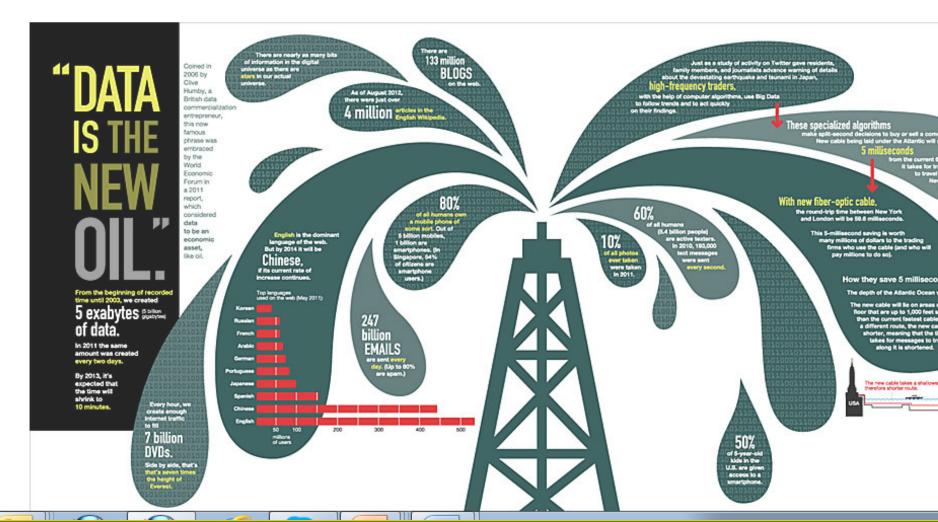




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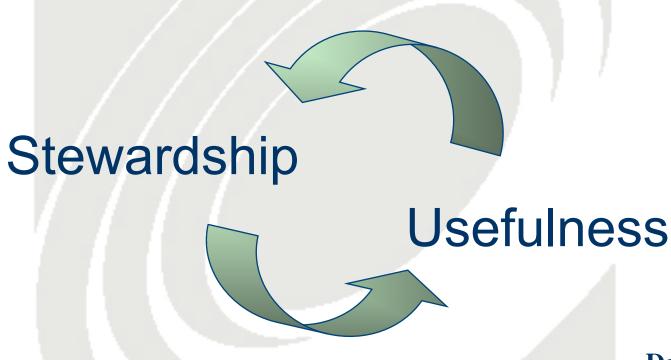


Making Data More Available and Usable

- Resources becoming increasingly available
 - Conceptual Frameworks
 - Practical Frameworks
 - Statistical Frameworks
- Need new capability at all levels of government and across disciplines and policy silos to leverage these resources
 - Five recommendations for getting started

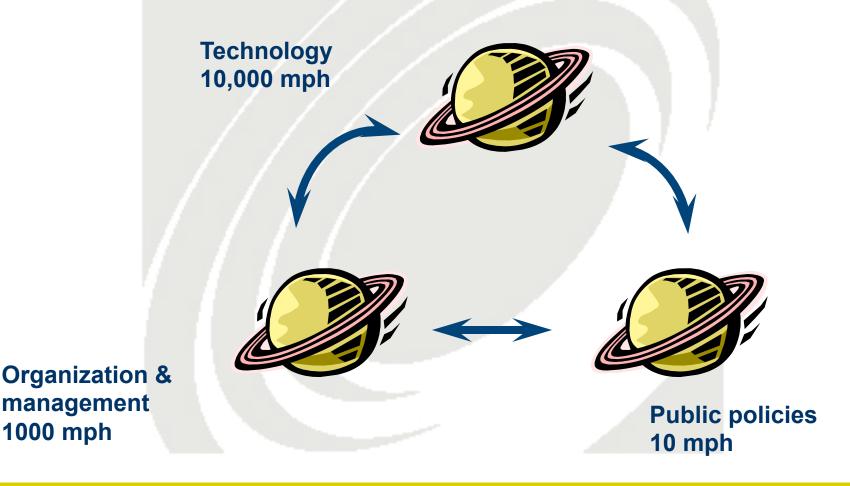


Principles of information use within government



Dawes, 2010

The Government Innovation Context





management

1000 mph



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