

Worksession

MEMORANDUM

November 21, 2012

TO: Government Operations and Fiscal Policy Committee
FROM: Dr. Costis Toregas, Council IT Adviser
SUBJECT: Discussion - Roadmap for Digital Government

Speakers for this discussion include:

GO Chair Navarro on the Broad Vision for Using Technology to Improve Government
Council Digital Government lead Riemer on a Roadmap to the Future
GO Member Ervin on Committee Expectations for Improvements
Fariba Kassiri and Mike Ferrara for the Executive Branch Plans for Digital Government
(Possible) Representative of the ITPCC on Digital Government 2013 Work Program Element
(Possible) Representatives of the General Public
(Possible) Representatives from Digital Government Organizations

Summary of Staff Recommendations

1. **Participate** in digital government discussion with Executive staff, and provide Guiding Principles for the foundation of a digital government effort in the County.
2. **Position** Open Government bill 23-12 within this broader context of digital empowerment.

Overview

Digital government is one of several terms applied to the modern strategy of using the technologies of telecommunications, the web, cloud computing, smart phones and other IT breakthroughs to improve the way that residents, visitors and businesses connect to their government and feel empowered to do more. Other terms are e-government, E-Gov and m-Gov (for mobile government).

There are some that equate digital government with governmental services automation. This view is rather outmoded, as the simplicity and low cost of computing devices enable far more than the automation of services; they make possible the total re-engineering of services by including the client/citizen as part of the process using smart phones, laptops or PCs, therefore giving rise to potential cost reductions in governmental costs and improvements in customer service levels given the immediacy of citizen engagement. Circles 1-2 present this total transformative view of empowerment that goes well beyond automation or technology use into real transformational changes in government.

The Committee will recall that these transformational changes are pursued under the Technology Modernization program in the CIP program, and even within the MCPS system within their separate Technology Modernization program. Such transformations bring along with them the need for Change Management, and it is useful to always go beyond the technology installation to the deeper organizational changes that the technology brings.

Given the ever changing pace of progress in information technology, it is expected that digital government opportunities and services will also continue to change, adapt to the new platforms and offer new possibilities, both to government officials and citizens. It is therefore important to consider **digital government more of a journey than a destination**; the applications will change, new technology breakthroughs will present new opportunities to change processes, and government officials will have chances to create new strategies. Laws will have to be technology-agnostic so that decisions of today are overturned by progress tomorrow, and work flows and management organization of services will have to assume constant turmoil in the underlying methods and tools.

Digital Government Experiences

Many organizations and governments have developed experiences and transferable methodologies in digital government. Some of the better known ones are:

- The Sunlight Foundation at www.sunlightfoundation.com and their 10 principles for opening up government information:
 1. Completeness
 2. Primacy
 3. Timeliness
 4. Ease of Physical and Electronic Access
 5. Machine Readability
 6. Non-discrimination
 7. Use of Commonly Owned Standards
 8. Licensing
 9. Permanence
 10. Usage Costs
- The Open Government Partnership at the international level at www.opengovpartnership.org
- Code for America at www.codeforamerica.org, which provides resources for digital government projects

These organizational resources and many others have stimulated many local governments to initiate projects that are changing the way in which governments interact with their residents. The Committee has already heard in prior session about efforts in New York City, San Francisco, Philadelphia and others that come up almost daily in governmental publications and websites.

Montgomery County is one of the leaders in this field; © 3-9 present the progress made in this field, and Executive branch representatives will be available to present this progress and provide context for future work in this area.

This work is made possible by the establishment of specialized software platforms that favor openness and citizen participation (the Socrata software platform), and already there is an experimental platform available to departments that are ready to participate.

The Council has also authorized the Office of Legislative Oversight to include an item about digital government in their 2013 Work Program. The Office of Legislative Oversight's FY13 Work Program includes a project on Open Data and Open Government. This project will provide an overview of open data initiatives implemented in other jurisdictions and examine best practices. OLO will then take this broad investigation and focus it on case studies that exemplify how open data initiatives can benefit local businesses and encourage economic growth. In particular, it will explore and develop recommendations that address not only how open data platforms can make it easier for businesses to interact with Montgomery County, but also how the provision of this data can facilitate business-to-business and business-to-customer interaction.

Several individual departments are also participating in digital government initiatives; a good example is www.healthymontgomery.org, where citizens can interact with the Department of Health and Human Services in ways that reduce inconvenience and improve outcomes.

In addition, the Interagency Technology Policy Coordinating Committee has taken up digital government as an element of its 2013 Work Program and will provide a briefing to the Committee when it is ready to do so.

A Framework for Digital Government

In order to establish a proper policy framework for digital government, certain guiding principles should be discussed and endorsed by all participants. From best practice experiences, such guiding principles should include the following:

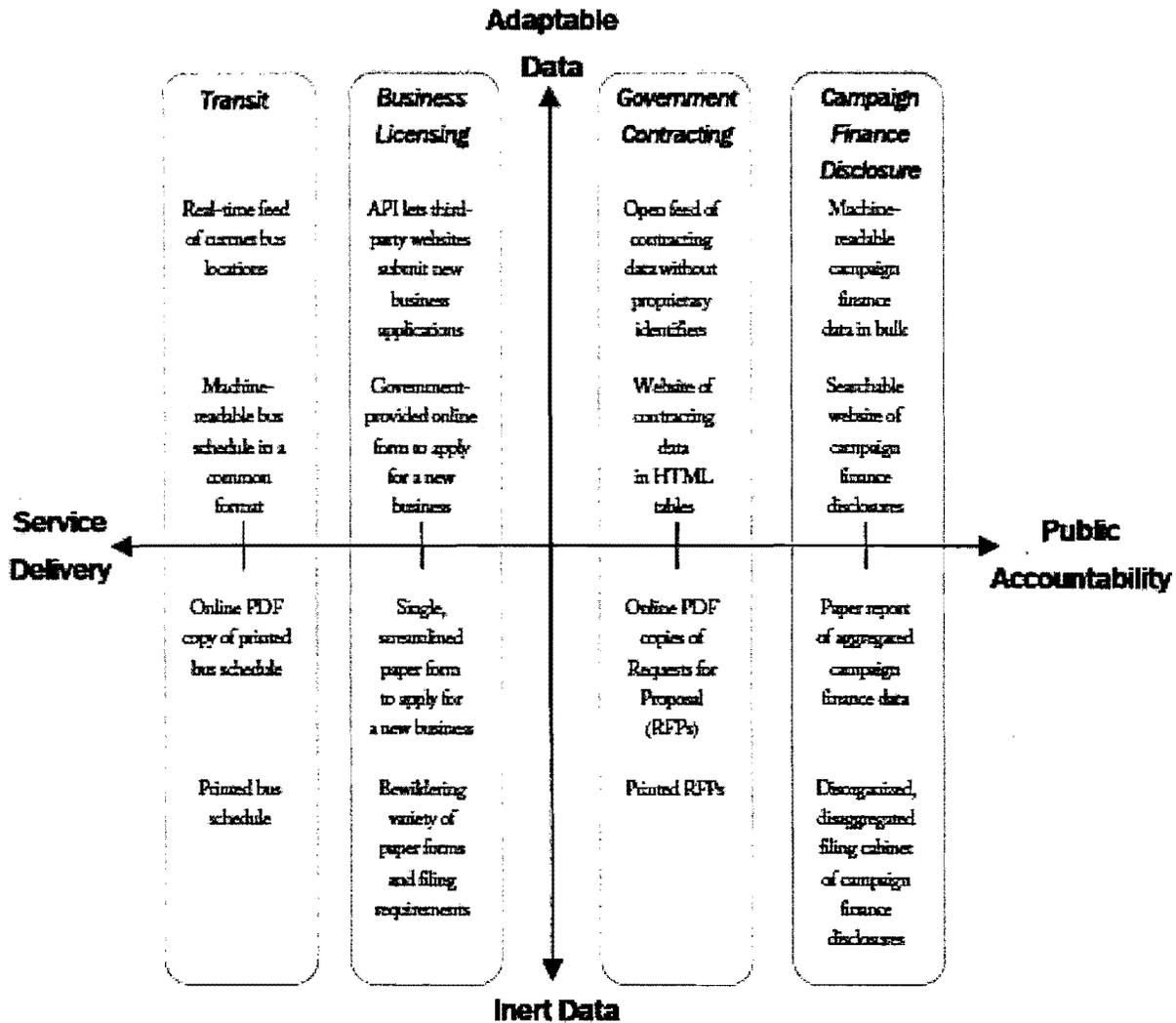
- Empower the citizen! Rather than invest in government-centered service delivery efforts that include expanded staffing and support costs, take advantage of the technology infrastructure and the immediate feedback potential of digital government and allow the citizen to take control of their own requirements and needs from government.
- Take advantage of the explosion of technology that undergirds a digital government effort. Smart phones, Html-5 (across all platforms) enabled, open source projects and cloud-based data bases are all methods that are new to government but offer tremendous payback in terms of citizen satisfaction and potential cost reduction for service delivery.
- Create economic activity in the County through the encouragement of third party developers, who can develop apps to help citizens engage with their government through open data strategies.
- Be prepared to organize for Change Management in the departments. An empowered citizen could mean major new pathways of work for County employees, and these changes could bring difficult times for those who cling to old ways of doing business.

These guiding principles and others the Committee may want to add can help establish the foundation for digital government. In a sense, they become the "Christmas tree" to which various open government and/or digital government applications can be attached and allowed to shine. Applications may increase in number, but the foundation for digital government should remain invariant and constantly point to the same small number of principles.

Context for Bill 23-12

Bill 23-12 is an Open Government bill, but its target is really the provision of a pathway towards open data environments that can help a strong digital government capacity. The difference between open government and open data is an important one. Attached at © 10-39 is an article from the UCLA Law Review that makes this distinction explicit and raises a strong and helpful argument about the difference between government services and government policies.

Especially important is the figure at the end of the article and reproduced here:



The Open Government bill being discussed by the Committee on October 29th is an effort to strengthen the data environment and move on the vertical axis – away from “Inert Data” and more towards “Adaptable Data”. But the fuller discussion of an Open Government that would bring a focus on the horizontal axis of “service Delivery” to “Public Accountability” is probably the topic of yet another effort which is absolutely necessary before the full benefits of digital government can be made available to all residents, businesses, and visitors in the County.

Journal of County Administration
February 2012

Technology Corner
with Dr. Costis Toregas, The George Washington University

It's not about your iPhone...

A good friend of mine in county government sent me a snippet the other day to proudly proclaim that her county had just approved the purchase of several I phones and I pads for county employees. Of course congratulations were in order, as the "trendy" devices were sure to bring on new perspectives to the county employees and suggest countless new ways for services to be delivered.

But once the euphoria settled down a bit, a more somber reflection had to be dealt with- that it was not about her I Phone but the I phone and all the other smart phones and I pads and tablets and a bewildering array of devices in the hands of ... gasp!!... the county residents! It is this astounding transformation in the IT equation that has gone almost unnoticed in many local governments. Before, government had the machines and the data and the print outs, and the residents had to be informed and helped along so they could become involved with their government in simple ways: a town hall meeting, a call-in with the County Executive, a deeper than usual article in the local newspaper on a Sunday edition. But today, many residents have the ability themselves to parse data bases looking for useful tidbits or wanting to provide a photograph showing just how bad the pothole in front of their house is, and and... And it is this new information fighter, the resident, that we are not prepared to empower and provision with the one thing their devices really want: raw data, arrayed in simple fashion and easy to upload, analyze and draw conclusions.

Many county leaders are not sure this is the case. After all, we publish the county budget on line! But, a techie voice squeaks in the background, we publish the budget pages by scanning them in pdf format and published as whole pages. So if you want to READ the budget, no problem- we are ready for you. But if you want to analyze the budget, well, that's a different thing. Analysis is still reserved for government officials.

I have heard the strangest excuses why we should not indeed make the raw data of the county's workings available to our residents. But, says "Concerned in the Attorney's Office" of county X, our information may have errors that could lead someone to drawing wrongful or even "dangerous" conclusions! Of course, wise reader, you know the answer to that worry- what better way to correct errors than to find them, and with cheap labor (read free) to boot! But, screams "Paranoid from Public Safety", we can't really tell them these things in direct fashion; suppose

they organize an analysis that shows that our own decisions were not really evidence-based? Once again, the voice of reason suggests that the best decisions are made with the participation of the governed, who many times can give us great ideas to boot that we had not even thought about!

Not only is citizen access to data good, common sense management, but it can also lead to cost reductions on the county staffing ledgers. Many times citizens come to visit their government in order to look up a permit, to see a formula that computed a tax levy or to provide an address. Whether they do this in person or by phone, it robs our county employees of time that is used to look up and provide information- why not let the residents do it on their own time (which includes weekends, of course, leading to instant service improvement at no additional cost!)

This demand for direct data access is growing- part with the existence of the mobile devices and apps in the hands of our residents, but also because of the increased flexibility of our own tools like GIS and data analytics which thrive on multiple user approaches. And responding to this push for access to data, governments around the world are passing "Open Government" legislation which encourages and in some parts mandates governmental agencies to begin publishing data in forms accessible to citizen applications- a veritable land rush of access. In our own country, President Obama signed legislation on the first day he took office asking all federal agencies to develop openness plans and to start publishing data bases in ways that citizens can access and use. And many countries are passing legislation that gives citizens the right of access to information, and provides redress when that access is blocked. Indeed a sea of change is about us, supported by real actions and made practical by the newer generations of citizens who expect instant answers on small devices in the palm of their hands. And why not? It is their data after all! Data that remains confidential or private becomes the exception rather than the rule, and data-driven decisions carry the day on both sides of the Council dais...

OpenMontgomery

Montgomery County's Digital Government

GO Committee Update
October 29, 2012

Why Focus on Digital Government?

Technology is fundamentally transforming how we conduct our business and live our lives.

- Exponential advances in computing power
- Rise of high-speed networks
- Growing mobile revolution ~ entire Internet at our fingertips
- Existing investment in Information Technology
- Consumer/constituent expectations
- Digital trends in global economies

The *new* digital platform of connection providing *new* opportunities for *new* innovations and creation of *new* industries.

Why Focus on Digital Government?

- The new digital platform of connection gives us an unprecedented opportunity to establish what is needed, who to collaborate with, and to which services we can add value (often by using current, or minor new investments).
- This is more about creativity in the field of government operations, services, and resources by sharing high-quality digital government information and facilitating participation and partnerships.
- Technology is training the next generation for an artistic (creative) economy not an industrial one. Therefore they are training for an experience driven future.
- In a digital age the cost of failing is small. We can start by taking small steps such as changing the way we listen to or seek input from the public, and then build on that to expand our reach and impact.

OpenMontgomery

Montgomery County's Digital Government

OpenMontgomery will further the County Executive's vision for a Responsive and Accountable County Government which charges us to continually harness the power of technology. *OpenMontgomery* will help create a 21st century digital government – one that is efficient, effective and focused on improving the delivery of services to the residents and businesses.

OpenMontgomery Objectives

1. Enable the residents, businesses, and an increasingly mobile workforce to access high-quality digital government information and services anywhere, anytime, on any device.
2. Ensure that as the government adjusts to this new digital world, we seize the opportunity to procure and manage devices, applications, and data in smart, secure, and affordable ways.
3. Unlock the power of government data to spur innovation, economic development, and improve the quality of services for Montgomery County residents and businesses.
4. Facilitate and increase resident and business participation in County government.

OpenMontgomery Principles

1. An “**Information-Centric**” approach
2. A “**Shared Platform**” approach
3. A “**Customer-Centric**” approach
4. A platform for “**Security and Privacy**”

Future Steps

- Digital Government/*OpenMontgomery* Road Map
 - Scope/Activities
 - Milestones/Schedule
 - Security and Privacy
 - Data Policies/Procedures for Publishing and Governance
 - Digital Tools to Engage Community & Access Government Services and/or Information
 - Performance Measures/Customer Satisfaction on Digital Services
- Guidelines and Directive to Executive Branch Departments
- Planning the Launch
 - Technical Platforms and Content
 - Feedbacks
 - Support Requirements

The New Ambiguity of “Open Government”

Harlan Yu
David G. Robinson



ABSTRACT

“Open government” used to carry a hard political edge: It referred to politically sensitive disclosures of government information. The phrase was first used in the 1950s in the debates leading up to passage of the Freedom of Information Act. But over the last few years, that traditional meaning has blurred, and has shifted toward open technology.

Open technologies involve sharing data over the internet, and all kinds of governments can use them, for all kinds of reasons. Recent public policies have stretched the label “open government” to reach any public sector use of these technologies. Thus, the term “open government data” might refer to data that makes the government as a whole more open (that is, more publicly accountable), or instead might refer to politically neutral public sector disclosures that are easy to reuse, even if they have nothing to do with public accountability. Today, a regime can call itself “open” if it builds the right kind of website—even if it does not become more accountable or transparent. This shift in vocabulary makes it harder for policymakers and activists to articulate clear priorities and make cogent demands.

This Essay proposes a more useful way for participants on all sides to frame the debate: We separate the politics of open government from the technologies of open data. Technology can make public information more adaptable, empowering third parties to contribute in exciting new ways across many aspects of civic life. But technological enhancements alone will not resolve debates about the best priorities for civic life, and enhancements to government services are no substitute for public accountability.

AUTHORS

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Both authors contributed equally to this work.

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INTRODUCTION

The internet's power to make government information more available and useful has, in the last several years, become a topic of keen interest for citizens, scholars, and policymakers alike. In the United States, volunteers and activists have harnessed information that the government puts online in key domains, ranging from the federal legislative branch to local city services, and have created dynamic new tools and interfaces that make the information dramatically more useful to citizens. These new tools have sparked significant academic and popular interest and have begun to prompt a fundamental shift in thinking. Policymakers have begun to consider not only the citizens who may ultimately benefit from government information, but also the third parties who can play a valuable mediating role in getting the information to citizens.

The primary concrete result of this trend is that governments have made a growing range of public sector data available in machine-processable electronic formats that are easier for others to reuse. Information that enhances civic accountability, including pending congressional legislation and federal regulations, is indeed more readily available. But more mundane and practical government information, from bus schedules to restaurant health inspection data, is also being provided in friendlier formats. Such data can be used to improve quality of life and enhance public service delivery, but may have little impact on political accountability.

Recent policy initiatives that promote or reinforce this trend have been described as "open government" projects. These initiatives usually include the provision of reusable data as one among a range of steps designed to increase overall governmental transparency. For example, President Obama's Open Government Directive, which was designed to implement the new administration's overall "principles of transparency, participation and collaboration,"¹ instructed executive branch agencies, inter alia, to "publish information online in an open format An open format is one that is platform independent, machine readable, and made available to the public without restrictions that would impede the re-use of that information."² Similarly, the multilateral Open Government

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1. PETER R. ORSZAG, EXEC. OFFICE OF THE PRESIDENT, MEMORANDUM NO. M-10-06, OPEN GOVERNMENT DIRECTIVE 1 (2009), *available at* http://www.whitehouse.gov/sites/default/files/omb/assets/memoranda_2010/m10-06.pdf.
 2. *Id.* at 2.

Declaration,³ signed by the United States and seven other countries in September 2011,⁴ situates these new technologies of data sharing in the context of political accountability.⁵ It begins with an acknowledgement that “people all around the world are demanding more openness in government.”⁶ Among their promises, the signatories commit to “provide high-value information, including raw data, in a timely manner, in formats that the public can easily locate, understand and use, and in formats that facilitate reuse.”⁷

These new “open government” policies have blurred the distinction between the technologies of open data and the politics of open government. Open government and open data can each exist without the other: A government can be an open government, in the sense of being transparent, even if it does not embrace new technology (the key question is whether stakeholders know what they need to know to keep the system honest).⁸ And a government can provide open data on politically neutral topics even as it remains deeply opaque and unaccountable. The Hungarian cities of Budapest and Szeged, for example, both provide online, machine-readable transit schedules,⁹ allowing Google Maps to route users on local trips. Such data is both open and governmental, but has no bearing on the Hungarian government’s troubling lack of accountability. The data may be opening up, but the country itself is “sliding into authoritarianism.”¹⁰

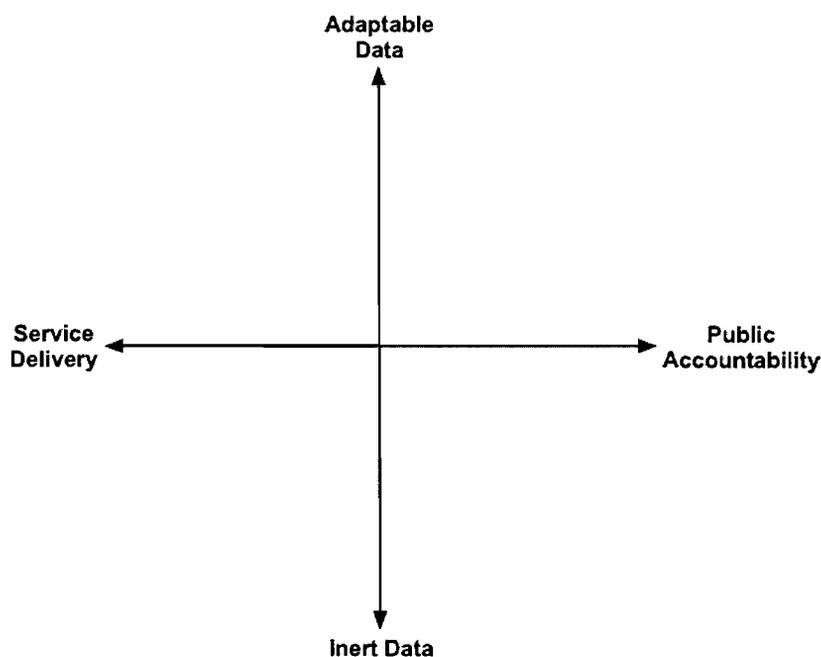
The popular term “open government data” is, therefore, deeply ambiguous—it might mean either of two very different things. If “open government” is a phrase that modifies the noun “data,” we are talking about politically important disclosures, whether or not they are delivered by computer. On the other hand,

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3. *Open Government Declaration*, OPEN GOV'T PARTNERSHIP (Sept. 2011), http://www.opengovpartnership.org/sites/www.opengovpartnership.org/files/page_files/OGP_Declaration.pdf.
 4. See Maria Otero, *On Open Government*, OPEN GOV'T PARTNERSHIP (Sept. 19, 2011), <http://www.opengovpartnership.org/news/open-government>.
 5. See generally *Open Government Declaration*, *supra* note 3 (committing to principles related to human rights and good governance and recognizing the opportunities that new technologies offer).
 6. *Id.* at 1.
 7. *Id.*
 8. In the extreme, important political disclosures could be “open government” data even if they were chiseled on stone tablets.
 9. See *List of Publicly-Accessible Transit Data Feeds*, GOOGLETRANSITDATAFEED PROJECT, <https://code.google.com/p/googletransitdatafeed/wiki/PublicFeeds> (last updated June 5, 2012), for a list of more than 150 transit agencies worldwide that provide their schedule data online to the public, using a standard called the General Transit Feed Specification (GTFS).
 10. Kim Lane Scheppelle, *Hungary's Constitutional Revolution*, N.Y. TIMES BLOGS—PAUL KRUGMAN, CONSCIENCE OF A LIBERAL (Dec. 19, 2011, 10:31 AM), <http://krugman.blogs.nytimes.com/2011/12/19/hungarys-constitutional-revolution>.

if the words “open” and “government” are separate adjectives modifying “data,” we are talking about data that is both easily accessed and government related, but that might or might not be politically important. (Or the term might have a third meaning, as a shorthand reference to the intersection of data meeting both definitions: governmental data that is *both* politically sensitive and computer provided.)

In this Essay, we acknowledge that this ambiguity may sometimes be beneficial, but ultimately argue that the term “open government” has become too vague to be a useful label in most policy conversations. Open data can be a powerful force for public accountability—it can make existing information easier to analyze, process, and combine than ever before, allowing a new level of public scrutiny. At the same time, open data technologies can also enhance service delivery in any regime, even an opaque one. When policymakers and the public use the same term for both of these important benefits, governments may be able to take credit for increased public accountability simply by delivering open data technology.

In place of this confusion, we offer a stylized framework to consider each of these two questions independently. One dimension describes technology: How is the disclosed data structured, organized, and published? We describe the data itself as being on a spectrum between *adaptable* and *inert*, depending on how easy or hard it is for new actors to make innovative uses of the data. The other dimension describes the actual or anticipated benefits of the data disclosure; the goals of disclosure run on a spectrum between *service delivery* and *public accountability*. This is admittedly a simplification of reality: In practice, many disclosures serve both objectives. However, it is common for one of the two motives to predominate over the other, and we believe this provides a useful starting point for thinking about the competing goals of disclosure.



On the diagram, the vertical axis describes the data itself, and the horizontal axis describes the extent to which service delivery or public accountability predominates as a goal or anticipated result of the disclosure. Along the vertical dimension, there is broad political consensus in favor of adaptable data; but, horizontally, there are differences of opinion about the relative political importance of service delivery and public accountability as end goals for public disclosure. (Our discussion in Part III, below, illustrates these dimensions by populating the graph with examples of concrete public policies.)

We have organized our discussion as follows: Part I.A explains the conceptual origins of the relatively modern idea of open government as a public policy, starting with the first recognized use of the term in the mid-twentieth century. The phrase is of fairly recent vintage, but it reflects a particular perspective on the issues it describes—and it was well established before the internet came into being. Part I.B, correspondingly, explores the conceptual roots of open data, an idea that has always included, but has always applied far beyond, the kinds of information associated with civic transparency. Part II follows the story forward in time, as these concepts begin to merge and give rise to the ambiguous idea of open government data, and details some of the confusions that have ensued in the wake of this ambiguity. Part III describes our alternative proposal, which

differentiates the widely shared goal of adaptable data from the more controversial choice between enhanced service delivery and enhanced public accountability as the end goals of disclosure.

I. CONCEPTUAL ORIGINS

Open government and open data each have rich conceptual histories with independent origins. These histories are indispensable tools for understanding the current debate.

A. Conceptual Origins of Open Government

The idea of open government, as a synonym for public accountability, is part of the peacetime dividend that America reaped after the Second World War. After the war ended, the federal government was left in a state of relative opacity. Having grown accustomed to wartime information restrictions, the federal workforce was “fearful of Cold War spies, intimidated by zealous loyalty investigators within and outside of government, and anxious about” workforce reductions following the war.¹¹ As a result, “the federal bureaucracy generally was not eager to have its activities and operations disclosed to the public, the press, or other governmental entities.”¹²

The opacity surrounding World War II was not, as wartime opacity might be today, a deviation from a clearly established statutory requirement of federal government transparency. Instead, prior to World War II, the key federal law controlling disclosure of government information was the archaic Housekeeping Statute of 1789,¹³ which gave “[g]overnment officials general authority to operate their agencies” and withhold records from the public.¹⁴ The Administrative

11. HAROLD C. RELYEA & MICHAEL W. KOLAKOWSKI, CONG. RESEARCH SERV., 97-71 GOV. ACCESS TO GOVERNMENT INFORMATION IN THE UNITED STATES, at CRS-2 (2007), available at <http://www.dtic.mil/dtic/tr/fulltext/u2/a470219.pdf>.

12. *Id.*

13. *See id.* The Housekeeping Act, ch. 14, 1 Stat. 68 (1789), was first codified at 5 U.S.C. § 22. *See generally* 26A CHARLES ALAN WRIGHT ET AL., FEDERAL PRACTICE AND PROCEDURE § 5682 (1992) (describing the case law of the housekeeping privilege, which has sometimes been asserted as a basis for executive branch resistance to judicial subpoenas). In 1958, Congress amended the statute to reflect an increasing interest in transparency, adding the sentence, “This section does not authorize withholding information from the public or limiting the availability of records to the public.” Act of Aug. 12, 1958, Pub. L. No. 85-619, 72 Stat. 547 (codified as amended at 5 U.S.C. § 301 (2006)).

14. *See* H.R. REP. NO. 89-1497, at 2-3 (1966), reprinted in 1966 U.S.C.C.A.N. 2418, 2419.

Procedure Act of 1946,¹⁵ while it did contain a general requirement of access to public records, empowered agencies to restrict access “in the public interest,” with or without “good cause found”—a faint precursor of the robust justificatory requirements and procedural assurances of modern administrative law.¹⁶

The period from 1945 to 1955 was a “crucial decade” of early pressure toward greater openness, driven in part by the American Society of Newspaper Editors (ASNE).¹⁷ In 1953, ASNE commissioned a report, prepared by a prominent newspaper attorney named Harold Cross, titled *The People’s Right to Know: Legal Access to Public Records and Proceedings*.¹⁸ The report’s foreword noted that Cross had “written with full understanding of the public stake in open government”¹⁹—one of the earliest known uses of the term. The report became “the Bible of the press and ultimately a roadmap for Congress regarding freedom of information,”²⁰ and it served as “a call to battle . . . aimed primarily at the needs of news editors and reporters.”²¹

In 1955, the U.S. Congress created the Special Subcommittee on Government Information, also known as the Moss Committee,²² which incubated the legislation that became the Freedom of Information Act a decade later.²³ Wallace Parks, who served as counsel to the subcommittee,²⁴ gets credit as the first to expound on the term “open government” in print, thanks to his posthumous 1957 article, *The Open Government Principle: Applying the Right to Know Under the Constitution*.²⁵ Parks does not explicitly define the term “open government”

15. Pub. L. No. 79-404, 60 Stat. 237 (current version at 5 U.S.C. §§ 551-559, 3105, 7521).

16. See RELYEA & KOLAKOWSKI, *supra* note 11, at 2.

17. George Penn Kennedy, *Advocates of Openness: The Freedom of Information Movement 17-19* (Aug. 1978) (unpublished Ph.D. dissertation, University of Missouri-Columbia) (on file with author).

18. *Id.* at 31.

19. James S. Pope, *Foreword* to HAROLD L. CROSS, *THE PEOPLE’S RIGHT TO KNOW: LEGAL ACCESS TO PUBLIC RECORDS AND PROCEEDINGS*, at ix (1953). The *Foreword* was written in October 1952. Pope was the chairman of the American Society of Newspaper Editors’ Committee on Freedom of Information and was later the society’s president.

20. MICHAEL R. LEMOV, *PEOPLE’S WARRIOR: JOHN MOSS AND THE FIGHT FOR FREEDOM OF INFORMATION AND CONSUMER RIGHTS* 49 (2011).

21. Kennedy, *supra* note 17, at 31-32.

22. Congressman John E. Moss, a Democrat from California, chaired the Special Subcommittee on Government Information within the House Committee on Government Operations. See LEMOV, *supra* note 20, at 50.

23. See Kennedy, *supra* note 17, at 63.

24. See LEMOV, *supra* note 20, at 51.

25. Wallace Parks, *The Open Government Principle: Applying the Right to Know Under the Constitution*, 26 GEO. WASH. L. REV. 1 (1957).

in the article (in fact, he uses the phrase just four times in twenty-two pages), but his usage makes clear that he sees open government as a matter of accountability:

From the standpoint of the principles of good government under accepted American political ideas, there can be little question but that *open government and information availability* should be the general rule from which exceptions should be made only where there are substantial rights, interests, and considerations requiring secrecy or confidentiality and these are held by competent authority to overbalance the *general public interest in openness and availability*.²⁶

Parks's thinking, and perhaps his choice of words,²⁷ was part of a long campaign of legislative pressure that would culminate with the passage of the Freedom of Information Act (FOIA)²⁸ in 1966. Although President Lyndon B. Johnson "hated the very idea of journalists rummaging in government closets, hated them challenging the authorized view of reality, [and] hated them knowing what he didn't want them to know,"²⁹ he nonetheless signed the FOIA bill, professing "a deep sense of pride that the United States is an open society in which the people's right to know is cherished and guarded."³⁰

Over the next several decades, policy stakeholders used the term "open government" primarily as a synonym for public access to previously undisclosed government information. When Congress amended FOIA in 1974,³¹ it noted that "[o]pen government has been recognized as the best insurance that government is being conducted in the public interest."³² Similarly, the Privacy Act of 1974 aimed to achieve the ideals of "accountability, responsibility, legislative oversight, and open government" together, while respecting citizen privacy in government-held information.³³ Congress also considered open-meeting laws—like the

26. *Id.* at 4 (emphasis added).

27. Parks may actually owe this famous turn of phrase to one of his editors: According to a footnote, Parks passed away unexpectedly eight months before his article was published, and we have found no further record to describe his editors' role in putting the piece together. See Parks, *supra* note 25, at 1 n.*.

28. Pub. L. No. 89-487, 80 Stat. 250 (1966). For a history of the passage of the Act, see generally LEMOV, *supra* note 20, at 53–72.

29. Bill Moyers, *Is This a Private Fight or Can Anyone Get in It?*, COMMON DREAMS (Feb. 15, 2011), <https://www.commondreams.org/view/2011/02/15-7>.

30. *Statement by President Lyndon B. Johnson Upon Signing Pub. L. 89-487 on July 4, 1966*, in ATTORNEY GENERAL'S MEMORANDUM ON THE PUBLIC INFORMATION SECTION OF THE ADMINISTRATIVE PROCEDURE ACT (1967), available at <http://www.justice.gov/oip/67agmemo.htm>.

31. Act of Nov. 21, 1974, Pub. L. No. 93-502, 88 Stat. 1561 (amending 5 U.S.C. § 552).

32. S. REP. NO. 93-854, at 1 (1974).

33. S. REP. NO. 93-1183, at 1 (1974).

Government in the Sunshine Act,³⁴ which threw open the doors of federal agency meetings—to be under the umbrella of open government.³⁵ As the case law of FOIA and related statutes developed through the 1970s and 1980s, federal court decisions began to use the term “open government” as well, likewise referring to governmental transparency.³⁶

B. Conceptual Origins of Open Data

The internet holds obvious promise as a tool for sharing more data, more widely, than has ever been possible before. Across a wide range of technical fields, the adjective “open” has become a powerful, compact prefix that captures information technologies’ transformative potential to enhance the availability and usefulness of information.

Parallel explorations of the possibilities have been unfolding in a number of areas, accelerating in tandem with the growing uptake of the internet. For example, the Open Access movement aims to make peer-reviewed scientific literature freely available online.³⁷ The Open Educational Resources campaign seeks to create digital repositories of free learning materials to support global access to knowledge.³⁸ Open technological standards create pools of patent rights, relieving individual innovators of the need to negotiate patent licenses.³⁹ The Creative Commons system of copyleft licenses, which makes it easier for creative artists to share and reuse each other’s work, aims toward “an Internet full of open content, where users are participants in innovative culture, education, and science.”⁴⁰

34. Pub. L. No. 94-409, 90 Stat. 1241 (1976) (codified as amended at 5 U.S.C. § 552(b) (2006)).

35. See H.R. REP. NO. 94-880, pt. 1, at 39 (1976), *reprinted in* 1976 U.S.C.C.A.N. 2183, 2210 (considering how well the bill “[b]alanc[es] these three goals . . . (1) open government (2) cutting costs of government and (3) discouraging undue litigation . . .”).

36. See, e.g., *Bast v. U.S. Dep’t of Justice*, 665 F.2d 1251, 1253 (D.C. Cir. 1981) (“[T]he importance attributed by Congress to open government is clear, and the Act is designed to resolve most doubts in favor of public disclosure.”); *Rocap v. Indiek*, 539 F.2d 174, 180 (D.C. Cir. 1976) (“[B]y enacting the Freedom of Information Act, Congress determined that the benefits to be derived from ‘open government’ outweighed the costs”); *Mobley v. IRS*, No. C 77-1693 WWS, 1968 WL 1747, at *6 (N.D. Cal. June 14, 1978) (“[Plaintiffs] have established their right to see what information the IRS has collected on them and thereby affirmed one of the express policies of the FOIA, the right to open government.”).

37. See, e.g., Peter Suber, *Open Access to the Scientific Journal Literature*, 1 J. BIOLOGY 3.1 (2002), available at <http://www.earlham.edu/~peters/writing/jbiol.htm>.

38. See generally *About*, OPEN EDUC. RESOURCES COMMONS, <http://www.oercommons.org/about> (last visited June 8, 2012) (explaining that OER Commons “provide[s] support for and build[s] a knowledge base around the use and reuse of open educational resources”).

39. See, e.g., Laura DeNardis, *Open Standards and Global Politics*, 13 INT’L J. COMM. L. & POLY 168 (2009).

40. *About*, CREATIVE COMMONS, <https://creativecommons.org/about> (last visited June 8, 2012).

Similarly, a programmer's decision to release her software under an "open source" license means that the program's source code will be freely available to its users.⁴¹ The phrase "open source" has also, more broadly, become shorthand for the collaborative innovation strategy that underlies many open source software projects—an ethos in which anyone can contribute, abundant scrutiny can help to find and resolve bugs,⁴² and a community of creators can take pride in a useful, freely available end product.⁴³

Across each area, there is a common thread: When many individuals or groups are able to access information themselves and interact with it on their own terms (rather than in ways prescribed by others), significant benefits can accrue. Each of these movements is focused on certain classes of information, and each one leverages new technology to make that information more freely and readily available and useful.

The label "open," as applied to various kinds of information, thus inherits both a technological and a philosophical meaning. At a technological level, the term suggests using computers to handle information efficiently in place of manual human processing, greatly extending the range of logistically feasible ways in

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41. More practically, however, the definition of "open source" from the Open Source Initiative includes a number of other criteria, including redistribution, licensing, and nondiscrimination requirements. See *The Open Source Definition*, OPEN SOURCE INITIATIVE, <http://opensource.org/docs/osd> (last visited June 8, 2012).
 42. As Linus Torvalds—creator of the Linux operating system—famously remarked, "Given enough eyeballs, all bugs are shallow." Eric Steven Raymond, *The Cathedral and the Bazaar (Version 3.0)*, CATB.ORG (2000), <http://www.catb.org/~esr/writings/cathedral-bazaar/cathedral-bazaar> (internal quotation marks omitted).
 43. Not all open source software is free software, and the usage of these terms has been subject to significant philosophical debate. See, e.g., Richard Stallman, *Why Open Source Misses the Point of Free Software*, GNU OPERATING SYS., <https://www.gnu.org/philosophy/open-source-misses-the-point.html> (last updated May 18, 2012). Several of the most widely used open source regimes, such as the GNU General Public License (GPL), actually impose additional, stringent conditions; most importantly, the GPL imposes the condition that modified versions of the software must be distributed on the same permissive and noncommercial terms as the original. See *GNU General Public License*, GNU OPERATING SYS. (June 29, 2007), <http://www.gnu.org/licenses/gpl.html>. In the license's preamble, the GPL's authors state, "When we speak of free software, we are referring to freedom, not price." *Id.* Other licenses, such as the BSD License, simply require that source code be made available, without restricting commercialization. See *The BSD 2-Clause License*, OPEN SOURCE INITIATIVE, <http://www.opensource.org/licenses/bsd-license.php> (last visited June 8, 2012). And still others, such as the Microsoft Public License (MPL), require that if the source code for a licensed program is distributed at all, it must be distributed in full and must be freely available to reuse. These licenses, however, do not require that the source code be distributed—thus allowing for anyone to build commercial, closed-source software that incorporates the MPL-licensed components. See *Open Source Licenses: Microsoft Public License*, MICROSOFT, <http://www.microsoft.com/en-us/openness/licenses.aspx#MPL> (last visited June 8, 2012).

which information can be used. The extent to which this is possible often turns on technical details, as computers can more readily transform information that is provided in standard, structured formats.

Philosophically, the term suggests participation and engagement—all the people who might benefit from information can share and reuse it in a democratized, accessible way. This implies an absence of legal barriers to innovative new projects, and a larger cultural enthusiasm for innovative and sometimes unexpected developments.⁴⁴

The label “open data” combines both senses of the word “open”—both the term’s technological meaning and its philosophical meaning—with a focus on raw, unprocessed information that allows individuals to reach their own conclusions. Before its civic uses, scientists used the term to refer to raw, unprocessed scientific data.

The earliest appearance of the term “open data” in a policy context appears to come from science policy in the 1970s: When international partners helped NASA operate the ground control stations for American satellites, the operative international agreements required those partners to adopt an “open-data policy comparable to that of NASA and other U.S. agencies participating in the program, particularly with respect to the public availability of data.”⁴⁵ The agreements also required that data be made available to NASA “in the NASA-preferred format.”⁴⁶

Later, a 1995 National Academy of Sciences report titled *On the Full and Open Exchange of Scientific Data* elaborated the idea of sharing data from environmental monitoring satellites, perhaps reflecting its shared lineage with those earlier NASA agreements: “International programs for global change research and environmental monitoring crucially depend on the principle of full and open exchange Experience has shown that increased access to scientific

44. See, e.g., THE POWER OF OPEN, <http://thepowerofopen.org> (last visited June 8, 2012).

45. Memorandum of Understanding on Remote Sensing, U.S.-It., May 9, 1974, 26 U.S.T. 3078, 3080 [hereinafter U.S.-It. MOU]. Between 1973 and 1975, the United States concluded similar agreements with a number of other countries. E.g., Memorandum of Understanding on Remote Sensing, U.S.-Chile, Sept. 8, 1975, 26 U.S.T. 3040; Memorandum of Understanding on Remote Sensing, U.S.-Zaire, Jan. 31, 1975, 26 U.S.T. 1699 [hereinafter U.S.-Zaire MOU]; Memorandum of Understanding on Remote Sensing, U.S.-Iran, Oct. 29, 1974, 26 U.S.T. 2936; Memorandum of Understanding on Remote Sensing, Apr. 6, 1973, 24 U.S.T. 897. The language varied slightly from one agreement to the next, but each further assigned to a local partner research organization the responsibility to “ensure unrestricted public availability” of the data “at a fair and reasonable charge based on actual cost.” U.S.-Zaire MOU, *supra*, at 1703.

46. U.S.-It. MOU, *supra* note 45, at 3079.

data, information, and related products has often led to significant scientific discoveries and the opportunity for educational enhancement.”⁴⁷

The term “open data” has also appeared in the life sciences context, principally in relation to genetic data. A feature on Jim Kent, the graduate student whose programming work allowed the publicly funded Human Genome Project to finish its work before competing private efforts did, said in part: “Kent’s work illustrates the need to think about more than just open source code; in the scientific community there is a growing awareness of the importance of open data.”⁴⁸

II. “OPEN GOVERNMENT” MEETS “OPEN DATA”

A. Early Roots of the Convergence

Government data started going online almost as soon as the internet opened to individual users in the early 1990s. The earliest pioneer was Jim Warren, a sixties radical from Silicon Valley. Warren was well known as the founder of the West Coast Computer Faire, one of the first venues to showcase the personal computer.⁴⁹ He was also known as an open government activist, but his particular flavor of transparency had a high-tech twist.⁵⁰ In 1993, he “show[ed] California Assembly Member Debra Bowen how public access to state legislative records could be accomplished via the Internet at low cost and high benefit to the public.”⁵¹ Bowen introduced A.B. 1624⁵² in March 1993, and Warren “single-handedly launched a crusade to ensure the bill’s passage,” which succeeded later that year.⁵³ California became “the first state in the nation to put

47. *On the Full and Open Exchange of Scientific Data*, NAT’L RES. COUNCIL (Apr. 3, 1995), <http://www.nap.edu/readingroom.php?book=exch&page=summary.html>.

48. Bruce Stewart, *Keeping Genome Data Open: An Interview With Jim Kent*, O’REILLY (Apr. 5, 2002), <http://www.oreillynet.com/pub/a/network/2002/04/05/kent.html>.

49. The first West Coast Computer Faire was held in San Francisco in 1977—and it was, at the time, the world’s biggest computer trade show. It was at there that Steve Jobs and Steve Wozniak first launched the Apple II personal computer. See *Triumph of the Nerds: The Television Program Transcripts: Part 1*, PBS, <http://www.pbs.org/nerds/part1.html> (last visited June 8, 2012).

50. See, e.g., Peter H. Lewis, *Cyberspace Prophets Discuss Their ‘Revolution’ Face to Face*, N.Y. TIMES, Aug. 23, 1995, <http://www.nytimes.com/1995/08/23/us/cyberspace-prophets-discuss-their-revolution-face-to-face.html> (describing Warren as “an advocate for open government”).

51. *Jim Warren*, <http://www.svipx.com/pcc/PCCminipages/z2854bc4b.html> (last modified May 15, 2001).

52. 1993 Cal. Stat. 7095.

53. See Press Release, Playboy Found., Computer Columnist and Open-Government Activist Jim Warren to Receive 1994 Hugh M. Hefner First Amendment Award (Oct. 14, 1994), available at <http://cu-digest.org/CUDS6/cud6.91>. For a first-hand account of the battle to pass A.B. 1624,

its legislative information, voting records, and state laws online."⁵⁴ Following California's lead, open government advocates in at least a dozen other states began to push similar grassroots proposals.⁵⁵

At the federal level, when the Republicans gained control of Congress in 1994, they enjoyed a fresh opportunity to overhaul that body's infrastructure—the first such opportunity since widespread public use of the internet began. The website THOMAS, launched in 1995, provided public access to proposed legislation, directory information about members and committees, and daily hearing schedules, among other useful documents.⁵⁶ Although today discussions of open government in Congress often begin with THOMAS, the website was not clothed in the language of "open government" at its launch.⁵⁷ Before the convergence, "open government" referred narrowly to the initial release of previously undisclosed government information or the effort to get such information released. At its inception, THOMAS simply increased the accessibility of congressional work that was already publicly available.⁵⁸ While this increase in accessibility was dramatic, it arguably did not fall within the then-current meaning of the term "open government," because it did not disclose any previously unavailable material.

THOMAS was not what would now be called an open data project either, because the information it provided was accessible only via a government-supplied interface. The website was designed to serve the needs of citizens—not to open the door for third parties to innovate. By contrast, although they may not have used the term "open data," several other key government offices have long pursued open data policies, providing key data online in machine-readable formats that (unlike THOMAS) facilitate third-party analysis and reuse. The greatest example may be the U.S. Census, which was providing public information through Census.gov as early as 1996.⁵⁹

see Interview by Russell D. Hoffman With Jim Warren (June 6, 1995) (transcript available at <http://www.animatedsoftware.com/hightech/jimwarre.htm>).

54. *California Legislature Marks 10 Years Online*, GOV'T TECH. (Jan. 22, 2004), <http://www.govtech.com/e-government/California-Legislature-Marks-10-Years-Online.html>.

55. See Jim Warren, *A Once-in-a-Lifetime Opportunity for Real Citizen Access to Government*, INTERNET GAZETTE & MULTIMEDIA REV. (Jan. 1995), <http://www.kenmccarthy.com/archive/gazette/ig4.html>.

56. See Guy Lamolinara, *Congress on the Internet: New Web Server Organizes Online Information*, LIBR. CONGRESS (Jan. 23, 1995), <http://www.loc.gov/loc/lcib/9502/thomas.html>.

57. See *id.*

58. See *id.*

59. See, e.g., *U.S. Census Bureau Home Page*, INTERNET ARCHIVE (Dec. 14, 1996), <http://web.archive.org/web/19961227012639/http://www.census.gov>.

The first major project to take advantage of open data for an open government purpose—that is, to make data machine readable and accessible in order to promote government transparency and accountability—was OpenSecrets.org, a website that allows users to search and analyze campaign finance disclosures.⁶⁰ It launched in 1998 under the auspices of the Center for Responsive Politics, combining government data with third-party innovation. From the beginning, the website aimed to let users adapt the data to their own purposes. On the site's early home page, its creators explained that they planned on "expanding the interactivity of the site, making it possible for you to ask your own questions—how much did the tobacco industry give in the last election, for example, or where does your congressman rank in dollars from labor unions, defense contractors, or phone companies."⁶¹ True to that promise, the site quickly emerged as a powerful and popular tool for members of the public, researchers, and journalists—a role it still enjoys today.

GovTrack.us, a website launched in 2004 as a side project of then-graduate student Joshua Tauberer,⁶² was a landmark in the convergence of open government and open data.⁶³ It focused on the same core information as THOMAS: legislative data about Congress. The website included bills, votes, biographical information on members, and reusable digital maps of congressional districts, and it offered new functionality beyond THOMAS's own for people to search, sort, and monitor legislation of interest to them.

The data in THOMAS was not freely available in bulk at the time of GovTrack's launch—instead, Tauberer had to painstakingly write computer code to systematically scrape and reassemble the data in THOMAS. But once he had reassembled the data for his own use, Tauberer did not keep it to himself. Instead, he made it freely available, both in bulk and through an application programming interface (API) so that other websites could dynamically access his database and provide up-to-the-minute legislative information themselves, in whatever format or context they judged best. A partial inventory on GovTrack

60. Admittedly, OpenSecrets.org did not itself use the language of "open data" or "open government." See JOSHUA TAUBERER, *Big Data Meets Open Government*, in OPEN GOVERNMENT DATA (2012), available at <http://opengovdata.io/2012-02/page/1/big-data-meets-open-government>.

61. *Center for Responsive Politics, Open Secrets Interactive Home Page*, INTERNET ARCHIVE (Jan. 10, 1998), <http://web.archive.org/web/19980110220043/http://opensecrets.org>.

62. See *About GovTrack.us*, GOVTRACK.US, <http://www.govtrack.us/about.xpd> (last visited June 8, 2012).

63. See David Robinson, Harlan Yu, William P. Zeller & Edward W. Felten, *Government Data and the Invisible Hand*, 11 YALE J.L. & TECH. 160, 165–66 (2009).

lists at least thirty current and former online projects that rely on GovTrack’s data, including prominent sites like OpenCongress and MAPLight.org.⁶⁴

Well into the 2000s, however, the concept of “open government” among public officials still centered on fresh disclosures, rather than improved access to already-public data. The Honest Leadership and Open Government Act of 2007⁶⁵ dealt with requirements related to lobbying waiting periods and disclosures, earmark requests, and gifts to Congress. That same year, another law with a similar title, the OPEN Government Act of 2007,⁶⁶ modified FOIA’s fee structure and established an ombudsman to oversee FOIA’s processes. Neither of these bills approached “open government” in the technologically innovative mode of sites like GovTrack.

B. “Open Government” Becomes a Label for Both Technological Innovation and Political Accountability

In recent years, participants in the policy debate—first in the United States, and then internationally—began to use the term “open government” in a more ambiguous way.

President Obama and his team, both during the campaign and in government, have shown a major commitment to both open government and open data—and they have also been the leading force behind the conceptual merger of the two ideas.

On the campaign trail, then-Senator Obama promised to “restore the American people’s trust in their government by making government more open and transparent,”⁶⁷ responding in part to his predecessor’s perceived lack of transparency. At the same time, the technology and internet industries based in Silicon Valley served as a key source of financial and logistical support for the campaign, both through their own financial contributions and by helping to build a record-setting, web-based fundraising machine.⁶⁸ Obama was no stranger to the power of the internet: As a Senator, he sponsored the legislation that established USASpending.gov, an online portal that gave internet users an

64. See *Sites That Use GovTrack Data*, GOVTRACK.US, <http://www.govtrack.us/downstream.xpd> (last visited June 8, 2012).

65. Pub. L. No. 110-81, 121 Stat. 735.

66. Pub. L. No. 110-175, 121 Stat. 2524 (codified in scattered sections of 5 U.S.C.).

67. *Agenda: Ethics*, CHANGE.GOV, http://change.gov/agenda/ethics_agenda (last visited June 8, 2012).

68. See Joshua Green, *The Amazing Money Machine: How Silicon Valley Made Barack Obama This Year’s Hottest Start-Up*, ATLANTIC, June 2008, <http://www.theatlantic.com/magazine/archive/2008/06/the-amazing-money-machine/6809>.

unprecedented degree of insight into the federal budget.⁶⁹ His background as a grassroots organizer also helped him appreciate the power of online networking to connect his supporters with the campaign and with each other.

Alongside their specific policy impulse toward transparency, therefore, the candidate and campaign harbored a powerful, if general, sense that internet technologies could open doors for innovation, efficiency, and flexibility in government. In effect, this was a commitment to open data. “From a policy standpoint, there [were] many reasons for tech-minded types to support Obama, including his pledge to establish a chief technology officer for the federal government and to radically increase its transparency by making most government data available online.”⁷⁰ The campaign itself embraced a data-driven approach to its fundraising appeals, rigorously tested alternative fundraising and outreach messages, and devolved to its supporters a significant degree of autonomy in interacting with their friends to build support.⁷¹

The Obama transition team created a high-level working group on technology and innovation, alongside similar working groups on economics, national security, health care, and other major issues.⁷² The group had an ungainly name but an endearing acronym: the Technology, Innovation & Government Reform Policy Working Group, or TIGR (pronounced like Tigger, the friendly tiger from Winnie the Pooh). The group’s charter was to help prepare the incoming administration to implement its Innovation Agenda, which included a range of proposals to

create a 21st century government that is more open and effective; [that] leverages technology to grow the economy, create jobs, and solve our country’s most pressing problems; [that] respects the integrity of and renews our commitment to science; and [that] catalyzes active citizenship and partnerships in shared governance with civil society institutions.⁷³

69. See Federal Funding Accountability and Transparency Act of 2006, Pub. L. No. 109-282, 120 Stat. 1186 (codified at 31 U.S.C. § 6101).

70. Green, *supra* note 68.

71. See DANIEL KREISS, TAKING OUR COUNTRY BACK: THE CRAFTING OF NETWORKED POLITICS FROM HOWARD DEAN TO BARACK OBAMA (forthcoming 2012), available at http://danielkreiss.files.wordpress.com/2010/05/kreiss_takingourcountryback1.pdf.

72. See *Policy Working Groups*, CHANGE.GOV, http://change.gov/learn/policy_working_groups (last visited June 8, 2012).

73. *Id.*

This charter was squarely focused on technological innovation rather than on civic accountability.⁷⁴

Meanwhile, the communities of technological and political openness had continued to merge outside of government. A key meeting took place in the San Francisco Bay Area a year before the transition team's work.⁷⁵ The recommendations drawn up by attendees at the meeting speak in merged terms of "open government data":

This weekend, 30 open government advocates gathered to develop a set of *principles of open government data*. The meeting . . . was designed to develop a more robust understanding of why open government data is essential to democracy.

. . . .

. . . The group is offering a set of fundamental principles for open government data. By embracing [these] eight principles, governments of the world can become more effective, transparent, and relevant to our lives.

. . . .

Government data shall be considered open if it is made public in a way that complies with the principles below.⁷⁶

74. *See id.* Reflecting this focus, the group's three leaders were former FCC official Blair Levin, Google.org executive Sonal Shah, and Julius Genachowski, whom Obama would later appoint as his FCC chairman.

The group included the future leaders of what would become the administration's Open Government Initiative: Beth Noveck (who would go on to lead these efforts as Deputy Chief Technology Officer for Open Government) and Vivek Kundra (who would go on to serve as the Chief Information Officer). *See* Jesse Lee, *Transparency and Open Government*, WHITE HOUSE BLOG: OPEN GOV'T INITIATIVE (May 21, 2009, 1:00 PM), <http://www.whitehouse.gov/blog/09/05/21/Opening>. Noveck is a law professor who has long studied innovative ways to use technology to enhance the governance process. She orchestrated a pilot project for citizens to assist patent examiners in locating prior art and wrote a series of articles on technology-mediated governance. *See* Beth Simone Noveck, "Peer to Patent": *Collective Intelligence, Open Review, and Patent Reform*, 20 HARV. J.L. & TECH. 123 (2006). At the time of the Obama administration's transition, she was finishing a book on technology and governance. *See* BETH SIMONE NOVECK, *WIKI GOVERNMENT: HOW TECHNOLOGY CAN MAKE GOVERNMENT BETTER, DEMOCRACY STRONGER, AND CITIZENS MORE POWERFUL* (2009).

75. *See* Memorandum From Carl Malamud, Public.Resource.Org, to Attendees of Open Government Working Group Meeting (Oct. 22, 2007), https://public.resource.org/open_government_meeting.html. Malamud (a longtime advocate of putting government data online who led a successful effort to make the SEC filings of public companies freely available online) and Tim O'Reilly (a prominent Silicon Valley publisher and investor) organized the meeting; it received sponsorship from the Sunlight Foundation, Google, and Yahoo. *Id.*

76. *Request for Comments: Open Government Data Principles*, PUBLIC.RESOURCE.ORG (Dec. 8, 2007), https://public.resource.org/8_principles.html (emphasis added).

The language here is telling: Participants understood themselves as “open government advocates,” but the principles they produced specify circumstances under which “[g]overnment *data* shall be considered open” (emphasis added), rather than government itself. The eight principles, which include completeness, timeliness, and freedom from license restrictions, are requirements that attach to disclosures, not to regimes.⁷⁷ It may be true in some sense that a regime becomes more open whenever it provides additional open data, even for mundane and apolitical topics,⁷⁸ but it is easy to imagine that a closed regime might disclose large amounts of data conforming to these eight requirements without in any way advancing its actual accountability as a government.⁷⁹

There was also an emerging scholarly literature on the benefits that government might enjoy from fuller use of the internet, encompassing but reaching well beyond technology-driven enhancements of public accountability. Beth Noveck, who played a leading role in the Obama administration’s open government initiatives, wrote a book in this vein arguing not only for transparency, but also for new modes of “collaborative participation” that leverage citizens’ expertise.⁸⁰ We ourselves made similar arguments in our paper, *Government Data and the Invisible Hand*.⁸¹ There, we advocated for the release of machine-readable, structured government data to help close “the wide gap between the exciting uses of Internet technology by private parties, on the one hand, and the government’s lagging technical infrastructure, on the other.”⁸²

On President Obama’s first day in office, he issued two memoranda that dealt with “open government,” using the term to refer both to increased transparency and to technological innovation. The first, a memorandum on the Freedom of Information Act,⁸³ was designed to encourage agencies to be more

77. *See id.* The remaining five criteria are that the data be primary, accessible, machine processable, nondiscriminatory, and nonproprietary.

78. *See infra* Part III.

79. An electronic release of the propaganda statements made by North Korea’s political leadership, for example, might satisfy all eight of these requirements and might not tend to promote any additional transparency or accountability on the part of the notoriously closed and unaccountable regime.

80. NOVECK, *supra* note 74, at 19.

81. Robinson, Yu, Zeller & Felten, *supra* note 63.

82. *Id.* at 161.

83. Presidential Document, Memorandum of January 21, 2009, Freedom of Information Act, 74 Fed. Reg. 4683 (Jan. 26, 2009), available at http://www.whitehouse.gov/the_press_office/FreedomofInformationAct [hereinafter FOIA Memo].

responsive to FOIA requests. It stated that FOIA

encourages accountability through transparency [and] is the most prominent expression of a profound national commitment to ensuring an *open Government*. . . .

. . . .

All agencies should adopt a presumption in favor of disclosure, in order to renew their commitment to the principles embodied in FOIA, and to usher in a *new era of open Government*.⁸⁴

The creators of FOIA, as described above, had political objectives, not technological ones, and this memorandum focuses squarely on those political goals—transparency and accountability.⁸⁵ The word “innovation” does not appear, and technology earns a mention not as an end itself, but rather as one of the key means of achieving the political objective: “All agencies should use modern technology to inform citizens [Future Office of Management and Budget (OMB) guidance should] increase and improve information dissemination to the public, *including through the use of new technologies*.”⁸⁶

The second memorandum, on Transparency and Open Government,⁸⁷ took a much broader view. Whereas the FOIA memorandum suggested that a “new era of open Government” could be achieved through the transparency that FOIA compliance entails,⁸⁸ the Open Government memorandum treated transparency as just one among a trio of goals, setting out in separate paragraphs that an open government is transparent, participatory, and collaborative.⁸⁹ Transparency was just *one* of the features of open government, and public trust was just *one* of the benefits: “We will work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our democracy and promote efficiency and effectiveness in Government.”⁹⁰

The new administration thus began to move toward a broader conception of open government than had existed before—one that drew on the technological and philosophical commitments to innovation that the word already

84. *Id.* at 4683 (emphasis added).

85. *See supra* Part I.A.

86. FOIA Memo, 74 Fed. Reg. at 4683 (emphasis added).

87. Presidential Document, Memorandum of January 21, 2009, Transparency and Open Government, 74 Fed. Reg. 4685 (Jan. 26, 2009), *available at* http://www.whitehouse.gov/the_press_office/Transparency_and_Open_Government [hereinafter Transparency and Open Government Memo].

88. FOIA Memo, 60 Fed. Reg. at 4683.

89. *See* Transparency and Open Government Memo, 74 Fed. Reg. at 4685.

90. *Id.*

carried in technical circles. The president's memoranda set the stage for the Open Government Directive and the Initiative that were to follow. Being accountable was just one part of what made a government "open"—participatory or collaborative measures that enhanced efficiency or effectiveness might equally claim to be making the government more "open."

The central practical mandate of the Open Government Directive,⁹¹ issued eleven months later, was an open data requirement, not a political transparency requirement: The directive required agencies to "publish online in an open format at least three high-value datasets" via the new federal data portal at Data.gov.⁹² High value, in turn, did not necessarily mean politically sensitive: Aside from making the agency more transparent or accountable, data might also be high value if it would "improve public knowledge of the agency and its operations"⁹³ or "create economic opportunity."⁹⁴

Predictably, agencies responding to this mandate have tended to release data that helps them serve their existing goals without throwing open the doors for uncomfortable increases in public scrutiny. In many cases, agencies published datasets on Data.gov that were already available in other online locations.⁹⁵ While agencies packaged some of these datasets into more usable machine-readable formats, critics questioned how these disclosures added to the public's "insight into agency management, deliberations, or results."⁹⁶ Critics saw the repackaging of old information as providing only "marginal value" and urged the government to make available "public data that holds an agency accountable for its policy and spending decisions."⁹⁷ A broader study of Data.gov in 2011 noted a significant downward trend in agency dataset publication over the site's first year.⁹⁸ It concluded that most federal agencies "appear[ed] to cooperate with

91. ORSZAG, *supra* note 1.

92. *Id.* at 2.

93. *Id.* at 7.

94. *Id.* at 8.

95. See Bill Allison, *Surveying the First Fruits of the Open Government Directive*, SUNLIGHT FOUND. REPORTING GROUP (Jan. 25, 2010, 5:48 PM), <http://reporting.sunlightfoundation.com/2010/data-gov-opinion>.

96. Jim Harper, *Grading Agencies' High-Value Data Sets*, CATO@LIBERTY (Feb. 5, 2010, 12:27 PM), <http://www.cato-at-liberty.org/grading-agencies-high-value-data-sets>.

97. Letter From Gary Bass, Exec. Dir., OMB Watch, et al., to Vivek Kundra, Fed. Chief Info. Officer (Feb. 3, 2010), *available at* http://www.ombwatch.org/files/info/Kundra-HVD_letterFinal.pdf.

98. Alon Peled, *When Transparency and Collaboration Collide: The USA Open Data Program*, 62 J. AM. SOC'Y FOR INFO. SCI. & TECH. 2085, 2088 (2011).

the program while in fact effectively ignoring it," and that Data.gov had become "the playground for a tiny group of agencies."⁹⁹

Even as the administration's political momentum for its Open Government Initiative waned, local and state governments began to adapt these ideas for their own purposes. From New York to San Francisco, city and state leaders launched new websites devoted to sharing public data, often describing them as "open data" projects.¹⁰⁰ But the rhetoric among localities was more focused on service delivery than on accountability. City leaders in particular put an emphasis on improving communities through better services. San Francisco mayor Gavin Newsom expressed his hope that DataSF.org would "stimulate local industry, create jobs and highlight San Francisco's creative culture and attractiveness as a place to live and work," and only briefly acknowledged the possibility for greater accountability.¹⁰¹

Meanwhile, similar ideas have gained momentum internationally, reflecting other nations' growing recognition of the new technological realities. The European Union's 2003 Directive on the Re-use of Public Sector Information instructed that "[w]here possible, documents shall be made available through electronic means,"¹⁰² and the EU now operates a website and program to encourage member states to develop their own national data portals.¹⁰³ Independent efforts were underway in the United Kingdom by 2007,¹⁰⁴ leading to the creation in 2008

99. *Id.* at 2085, 2088.

100. *See, e.g., About, DATA.CA.GOV*, <http://www.data.ca.gov/about> (last visited Apr. 17, 2012) ("The State of California was one of the first states to launch an open data repository. Data.ca.gov was designed to provide a single source of raw data in the state. By posting state government data in raw, machine-readable formats, it can be reformatted and reused in different ways, allowing the public greater access to build custom applications in order to analyze and display the information."); NYC OPENDATA, <http://nycopendata.socrata.com> (last visited June 8, 2012) ("The data sets are now available as APIs and in a variety of machine-readable formats, making it easier than ever to consume City data and better serve New York City's residents, visitors, developer community and all[.]"); *Open Data, TEXAS.GOV*, <http://www.texas.gov/en/Connect/Pages/open-data.aspx> (last visited June 8, 2012) (displaying rural-health, school-performance, and other data for the state of Texas).

101. *See* Gavin Newsom, *San Francisco Opens the City's Data*, TECHCRUNCH (Aug. 19, 2009), <http://techcrunch.com/2009/08/19/san-francisco-opens-the-city%E2%80%99s-data>.

102. Directive 2003/98 of the European Parliament and of the Council of 17 November 2003 on the Re-use of Public Sector Information, art. 3, 2003 O.J. (L 345) 94, *available at* <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:345:0090:0096:EN:PDF>.

103. *See* EUR. PUB. SECTOR INFO. PLATFORM, <http://epsplatform.eu> (last visited June 8, 2012).

104. *See* ED MAYO & TOM STEINBERG, *THE POWER OF INFORMATION: AN INDEPENDENT REVIEW* (2007), *available at* <http://www.epractice.eu/files/media/media1300.pdf>; *see also* CHANCELLOR OF THE DUCHY OF LANCASTER, *THE GOVERNMENT'S RESPONSE TO THE POWER OF INFORMATION: AN INDEPENDENT REVIEW BY ED MAYO AND TOM STEINBERG* (2007), *available at* <http://www.official-documents.gov.uk/document/cm71/7157/7157.pdf>.

of a “Power of Information Task Force” to explore the benefits of adaptable government data.¹⁰⁵ Data.gov.uk, launched in October 2009, appears to have been the first site of its kind outside the United States.¹⁰⁶

A new multilateral initiative, instigated by the United States, has dramatically accelerated the spread of these ideas over the past year. In October 2010, President Obama addressed the United Nations General Assembly and urged member states:

In all parts of the world, we see the promise of innovation to make government more open and accountable. And now, we must build on that progress. And when we gather back here [in 2011], we should bring specific commitments to promote transparency; to fight corruption; to energize civic engagement; and to leverage new technologies so that we strengthen the foundation of freedom in our own countries, while living up to ideals that can light the world.¹⁰⁷

Following up on this idea, the U.S. State Department organized a series of meetings leading to what became the multilateral Open Government Partnership (OGP).¹⁰⁸ As conditions of entry into the OGP, prospective member countries are required to meet a minimum set of standards that are based on traditional contours of government accountability: timely publication of essential budget documents, an “access-to-information” law that allows the public to obtain key government information, anticorruption disclosure requirements for public officials, and measures to promote citizen participation and engagement.¹⁰⁹ These factors are fundamentally political, so the “open government” goals of the OGP initially appear to be centered on public accountability.

However, the Open Government Declaration that OGP member countries sign takes a broader approach toward “openness,” as signatories commit to “seeking

105. *See About the Taskforce*, POWER INFO. TASKFORCE, <http://powerofinformation.wordpress.com/about> (last visited June 8, 2012).

106. *See* TIM DAVIES, OPEN DATA, DEMOCRACY, AND PUBLIC SECTOR REFORM: A LOOK AT OPEN GOVERNMENT DATA USE FROM DATA.GOV.UK (2010), available at <http://practicalparticipation.co.uk/odi/report/wp-content/uploads/2010/08/How-is-open-government-data-being-used-in-practice.pdf>.

107. Press Release, White House Office of the Press Sec’y, Remarks by the President to the United Nations General Assembly (Sept. 23, 2010), <http://www.whitehouse.gov/the-press-office/2010/09/23/remarks-president-united-nations-general-assembly>.

108. *See, e.g., Working Agenda for Open Government Partnership: An International Discussion Meeting of July 12, 2011*, STATE.GOV, <http://www.state.gov/documents/organization/167614.pdf> (last visited June 8, 2012).

109. *See* OGP Minimum Eligibility Criteria, OPEN GOV’T PARTNERSHIP, <http://www.opengovpartnership.org/eligibility> (last visited June 8, 2012).

ways to make their governments more transparent, responsive, accountable, and effective.”¹¹⁰ In addition to transparency and accountability, OGP member countries promise to “uphold the value of openness in our engagement with citizens to improve services, manage public resources, promote innovation, and create safer communities.”¹¹¹ Thus, the stated goals of the OGP include making governments both more efficient and more accountable, and it remains to be seen how much focus each of these disparate goals will receive. By casting a wide net, the OGP has received the “open government” pledges of more than 55 countries,¹¹² including historically closed regimes like Russia.¹¹³ The practical impact of such pledges remains to be seen.

The framing value of “open government” has not gone unnoticed in the private sector, either: A growing list of companies have repackaged their government-oriented information technology products under this attractive new label. Microsoft, for example, has created an “Open Government Data Initiative,” which promotes the use of Microsoft’s Windows Azure online platform as a technological underpinning for open data efforts.¹¹⁴ Adobe is best known in the government data context as the creator of the PDF document format, which is the baseline digital format for scanned paper documents (and which, like paper, tends to be difficult for downstream innovators to reuse). Notwithstanding the frustrations associated with the PDF format, however, the company undertook a major federal government marketing campaign in 2009 under the tagline “Adobe Opens Up,” triggering consternation among some activists.¹¹⁵ One company,

110. *Open Government Declaration*, *supra* note 3, at 1.

111. *Id.*

112. See Maria Otero, *How the Open Government Partnership Can Reshape the World*, GUARDIAN PROF'L—OPEN GOV'T BRASILIA 2012 (May 11, 2012, 3:30 AM), <http://www.guardian.co.uk/public-leaders-network/blog/2012/may/11/open-government-partnership-reshape-world> (“55 countries have committed to taking steps towards openness through OGP.”).

113. See Russia, OPEN GOV'T PARTNERSHIP, <http://www.opengovpartnership.org/countries/russia> (last visited June 8, 2012).

114. See *What Is the Open Government Data Initiative?*, MICROSOFT, <http://www.microsoft.com/industry/government/opengovdata/Default.aspx> (last visited June 8, 2012).

115. See Clay Johnson, *Adobe Is Bad for Open Government*, SUNLIGHT LABS BLOG (Oct. 28, 2009, 12:57 PM), <http://sunlightlabs.com/blog/2009/adobe-bad-open-government> (“They’ve spent what seems to be millions of dollars wrapping buses in DC with Adobe marketing materials all designed to tell us how necessary Adobe products are to Obama’s Open Government Initiative. . . . Here at the Sunlight Foundation, we spend a lot of time with Adobe’s products—mainly trying to reverse the damage that these technologies create when government discloses information. . . . As ubiquitous as a PDF file is, often times they’re non-parsable by software, unfindable by search engines, and unreliable if text is extracted.”); see also Chris Foresman, *Adobe Pushes Flash and PDF for Open Government, Misses Irony*, ARS TECHNICA (Oct. 30 2009, 8:58 AM), <http://arstechnica.com/tech-policy/news/2009/10/adobe-pushes-flash-and-pdf-for-open-government-misses-irony.ars> (“[W]e

Socrata, has even dedicated itself exclusively to the governmental open data market, with a “Customer Spotlight” on its website that touts its product’s adoption by Data.gov, Medicare, the State of Oregon, and the cities of Chicago and Seattle.¹¹⁶ These businesses have an incentive to sell open data technologies for the broadest range of governmental uses; their decision to brand their efforts in terms of “open government” is powerful evidence of how vague the term has become.

C. Assessing the Merger

Taken together, these developments have caused a major change in the conceptual landscape: “Open government” policies no longer refer to those that only promote accountability. New modes of citizen engagement and new efficiencies in government services now share the spotlight with the older goal of governmental accountability, which once had this felicitous phrase all to itself.

The shift has real-world consequences, for good and for ill: Policies that *encourage* open government now promote a broader range of good developments, while policies that *require* open government have become more permissive. A government can now fulfill its commitment to be more “open” in a wider variety of ways, which makes such a promise less concrete than it used to be. Whether used as a campaign slogan, in a speech or policy brief, or in a binding national or international policy instrument, the phrase “open government” no longer has the clarity it once had. Existing documents and historical arguments that refer to open government may have lost some of their precision, becoming more ambiguous in retrospect than they were when first authored.

This new ambiguity might be helpful: A government could commit to an open data program for economic reasons—creating, say, a new online clearinghouse for public contracting opportunities—only to discover that the same systems make it easier for observers to document and rectify corruption. In any case, there is much to like about economic opportunity, innovation, and efficiency, and a convenient label could be a good way of promoting them all. Also, the new breadth of the “open government” label creates a natural cognitive association

can’t help but notice how the entire site—designed in [a proprietary Adobe format called] Flash—is practically inaccessible. . . . Wrapping all publicly accessible information in proprietary formats is neither a good nor complete solution. Providing documents in PDF form, or augmenting a website with additional Flash content is certainly useful. However, the goal of open government would be better served using open standards, like HTML, XML, JSON, ODF, and other formats that are both accessible and machine-readable.”)

116. See SOCRATA, <http://www.socrata.com> (last visited June 8, 2012).

between civic accountability and the internet, which may be for the best. Accountability policies that embrace the internet are often a great deal more effective than those that do not. (It might even make sense to say that if a government is not transparent through the internet, it is effectively not transparent at all.¹¹⁷)

But this shift might also allow government officials to placate the public’s appetite for accountability by providing less nourishing, politically low-impact substitutes. If the less specific idea of “open government” displaces accountability as the conceptual focus of public reform efforts, less accountability may be achieved.¹¹⁸

In April 2011, in response to criticism that its Open Government Initiative was not doing enough for transparency and accountability, the Obama administration launched a new site on “Good Government.”¹¹⁹ The new site focuses on harder-edged issues like shutting down superfluous federal buildings, publicizing the White House visitor logs, and strengthening ethics rules that restrict the lobbying activities of former administration staff.

Meanwhile, the Open Government Initiative and Data.gov appear to be focusing more and more on technological innovation and service delivery. Beth Noveck, who launched and led the program as the U.S. Deputy Chief Technology Officer (CTO) for Open Government, has returned to private life; her successor, Chris Vein, is described instead as the Deputy CTO for Government Innovation, a title seemingly more appropriate to Data.gov’s accomplishments.¹²⁰

Noveck herself now regrets the decision to adopt “open government” as the umbrella term for internet technologies’ transformative potential in the public sector:

[T]he White House Open Government Initiative that I directed and the Open Government Directive . . . were never exclusively about making transparent information about the workings of government. . . .

117. The Sunlight Foundation, a key actor in this area, goes so far as to say it is “committed to improving access to government information by making it available online, indeed redefining ‘public’ information as meaning ‘online.’” *Our Mission*, SUNLIGHT FOUND., <http://sunlightfoundation.com/about> (last visited June 8, 2012).

118. See Jennifer Shkabatur, *Transparency With(out) Accountability: Open Government in the United States*, 31 YALE L. & POL’Y REV. (forthcoming 2013) (manuscript at 3–4), available at http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2028656 (“[C]urrent [U.S.] transparency policies do not strengthen public accountability. . . . The existing architecture of online transparency allows [federal] agencies to retain control over regulatory data and thus [to] withhold information that is essential for public accountability purposes; prioritizes quantity over quality of disclosures; and reinforces traditional barriers of access to information. Hence, although public accountability is the *raison d’être* of online transparency policies, they largely fail to improve it.”).

119. *21st Century Government*, WHITEHOUSE.GOV, <http://www.whitehouse.gov/21stcenturygov> (last visited June 8, 2012).

120. *OSTP Leadership & Staff*, WHITEHOUSE.GOV, <http://www.whitehouse.gov/cto> (last visited June 8, 2012).

....

In retrospect, “open government” was a bad choice. It has generated too much confusion. Many people, even in the White House, still assume that open government means transparency about government.¹²¹

Instead, she writes, the term was meant to be “a shorthand for open innovation or the idea that working in a transparent, participatory, and collaborative fashion helps improve performance, inform decisionmaking, encourage entrepreneurship, and solve problems more effectively. By working together as [a] team with government in [a] productive fashion, the public can . . . help to foster accountability.”¹²² She suggests that the new White House structure, with separate focuses for transparency and for public sector innovation, may be more effective.¹²³

Notwithstanding a possible change of heart at the White House, however, the ambiguity of open government remains alive and well in the international sphere. In some foreign countries, the need for public accountability is far more acute, and the opportunity cost of deprioritizing it may be far greater. One of the clearest statements of this view comes from Nathaniel Heller, who directs an NGO called Global Integrity and was a key participant in the creation of the Open Government Partnership. He raised the question after Kenya launched an open data website:

The obvious explanation (in my mind) for why “open data” gets so much attention in the context of “open government” is that it is the sexiest, flashiest reform of the bunch. It’s much cooler (and frankly less politically controversial) for any government to put government health databases online . . . than it is for the same government to provide greater transparency around the financing of political parties in the country. . . .

. . . [O]pen data [may provide] an easy way out for some governments to avoid the much harder, and likely more transformative, open government reforms that should probably be higher up on their lists. . . .

. . . [W]hen I see the Kenyan government’s new open data portal . . . I can only wonder whether the time, expenses, and political capital devoted to building that website were really the best uses of resources. To vastly understate the problem, Kenya has a range of governance and open

121. Beth Simone Noveck, *Defining Open Government*, CAIRNS BLOG (Apr. 14, 2011, 12:57 PM), <http://caims.typepad.com/blog/2011/04/whats-in-a-name-open-gov-we-gov-gov-20-collaborative-government.html>.

122. *Id.*

123. *Id.*

government challenges that go far beyond the lack of a website where citizens (many of whom are not online) can chart government datasets.¹²⁴

The common thread to these observations is that “open government” is vogue but vague, an agreeable-sounding term with an amorphous meaning. We need better conceptual and linguistic tools, both for keeping governments honest and for exploring the transformative potential of information technologies in civic life.

To some ears, the idea of “open government data” has also developed a more threatening cast. Wikileaks, first launched in 2008, has created what some call “involuntary transparency,”¹²⁵ reshaping the conversation over leaks of secret government information to the press.¹²⁶ In earlier instances such as the Pentagon Papers, secret government documents reached a single journalist or a small group of journalists, and the public gained access not directly to the secret information itself but instead to the finished journalistic product.¹²⁷ The raw material was summarized, adapted, or otherwise filtered before it reached the masses, and sometimes it included changes that reflected the requests of incumbent government officials. Now, however, Wikileaks has made a series of large-scale disclosures of secret government information readily available to individual members of the public, often with little or no redaction of sensitive information. The site has provoked complaints from sources as diverse as the U.S. Department of Defense and Amnesty International, particularly after a trove of 250,000 unredacted documents—apparently released by accident—put the lives of some foreign supporters of U.S. policy at risk.¹²⁸

124. Nathaniel Heller, *Is Open Data a Good Idea for the Open Government Partnership?*, GLOBAL INTEGRITY COMMONS (Sept. 15, 2011, 12:41 PM), <http://www.globalintegrity.org/blog/open-data-for-ogp>.

125. See Shkabatur, *supra* note 118, at 37–41 (defining and discussing a category of “involuntary transparency”); see also Andy Greenberg, *WikiLeaks’ Julian Assange Wants to Spill Your Corporate Secrets*, FORBES, Nov. 29, 2010, <http://www.forbes.com/sites/andygreenberg/2010/11/29/wikileaks-julian-assange-wants-to-spill-your-corporate-secrets> (“Admire Assange or revile him, he is the prophet of a coming age of involuntary transparency. . . . Long gone are the days when Daniel Ellsberg had to photocopy thousands of Vietnam War documents to leak the Pentagon Papers. Modern whistleblowers, or employees with a grudge, can zip up their troves of incriminating documents on a laptop, USB stick or portable hard drive, spirit them out through personal e-mail accounts or online drop sites—or simply submit them directly to WikiLeaks.”).

126. See Curt Hopkins, *ReadWriteWeb’s Comprehensive WikiLeaks Timeline (UPDATED)*, READWRITEWEB (Dec. 29, 2010, 7:02 PM), http://www.readwriteweb.com/archives/readwritewebs_wikileaks_timeline.php.

127. For a review of the Pentagon Papers case, written in light of the WikiLeaks events, see Tom Kiely, *Pentagon Papers: National Security and Prior Restraint*, 20 HISTORIA 138 (2011), available at <http://castle.eiu.edu/historia/archives/2011/2011Hostetler.pdf>.

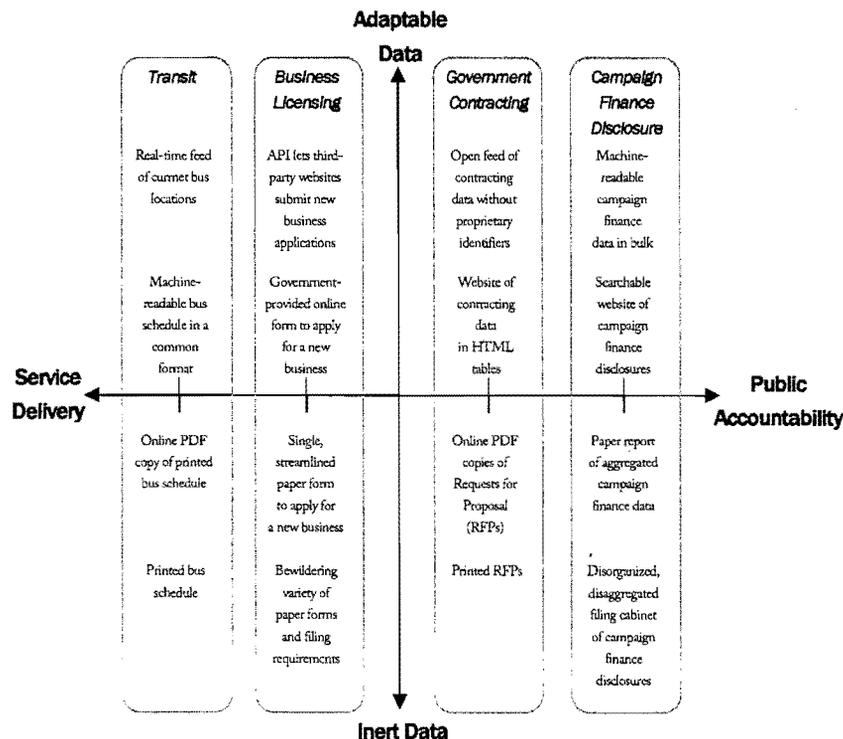
128. See Gloria Goodale, *Who Released the Trove of Unredacted WikiLeaks Documents?*, CHRISTIAN SCI. MONITOR, Sept. 1, 2011, <http://www.csmonitor.com/USA/2011/0901/Who-released-the-trove-of-unredacted-WikiLeaks-documents>.

data may be more or less adaptable depending on the format in which it is gathered and presented.

Offline data is very different: They gather dust in filing cabinets, often disorganized and disregarded. An obscure bit of information remains apart from the handful of people who might really benefit from knowing it because it would cost too much to search, sort, or reorganize. Offline data, though available in principle, is physically and psychologically heavy, encumbered by brick and mortar logistics, and tucked away in rooms with limited opening hours. Offline data is *inert*.

Public disclosures thus occupy a spectrum, from the most adaptable data to the most inert. Adaptability may depend on not only the format of the data itself but also on the prevalence and cost of the human and technological capital necessary to take advantage of it.

Disclosures also vary in a second dimension: They differ markedly in their actual or anticipated impact. A machine-readable bus schedule aims to promote convenience, commerce, and a higher quality of life—it enhances *service delivery*. Core political data, such as legislative or campaign finance information, serves a more purely civic role, enhancing *public accountability*. Disclosures of public contracting opportunities play a dual role, potentially enhancing both economic opportunity and public integrity.



The diagram displays this conceptual model and gives several examples. The vertical axis describes the data itself, in terms of its degree of adaptability. The lateral axis is a continuum from purely pragmatic to purely civic disclosures.

CONCLUSION

The vagueness of “open government” has undercut its power. Separating technological from political openness—separating the ideal of adaptable data from that of accountable politics—will make both ideals easier to achieve. Public servants can more readily embrace open data, and realize the full range of its benefits, when it is separated from the contentious politics of accountability. At the same time, political reformers—no longer shoehorned together with technologists—can concentrate their efforts on political accountability, whether or not they rely on new technology. And governments will be less likely to substitute technology initiatives for hard political change.