

CITY COUNCIL  
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON TECHNOLOGY

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Hearing Room, 16<sup>th</sup> Floor

B E F O R E:  
Daniel R. Garodnick  
Chairperson

COUNCIL MEMBERS:  
Gale A. Brewer  
Mark S. Weprin

## A P P E A R A N C E S (CONTINUED)

Carol Post  
Commissioner  
Department of Information Technology and  
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Don Morrow  
Chairman  
New York Technology Council

Aaron Brown  
Senior Product Manager  
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Tim Hofer  
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Ray Garcia  
Executive Advisor  
Field Center of Executive Entrepreneurship at Baruch  
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Richard Stanton  
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David Weber  
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Diana Vitetti  
Associate director  
Common Cause New York

Tom Lowenhoff  
Director  
Connecting.nyc

Dylan Gelts  
Roadify

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2 COUNCIL MEMBER GARODNICK: Good  
3 morning everyone. Welcome to the committee on  
4 Technology of the New York City Council. My name  
5 is Dan Garodnick, today's date is June 21<sup>st</sup>. I am  
6 joined today by Council member Gail Brewer and  
7 Council member Mark Weprin. I want to welcome all  
8 of you to today's hearing on open data standards  
9 for New York City government.

10 This is, in my view, perhaps the  
11 most important transparency legislation that we  
12 have heard in the Council in years. It will  
13 encourage far greater public engagement in New  
14 York City government. Information will become  
15 more directly available to residents and to the  
16 internet developers who could bring a vast number  
17 of apps to the marketplace to aid New Yorkers in  
18 accessing that information.

19 The open data legislation, Intro  
20 29, introduced by Council member Gail Brewer,  
21 requires the city to create a single internet  
22 portal from which all public data sets can be  
23 accessed in raw form via web browsers and mobile  
24 devices. In simpler terms, if government has the  
25 data and it can be made available, it should be

1  
2 made available in an unlocked and searchable form  
3 to everyone quickly and completely and license  
4 free.

5 Let me first of all thank Council  
6 member Brewer who had the privilege of chairing  
7 this committee before me and for introducing this  
8 bill. It is a great bill and I am pleased to  
9 support it and I wanted to make sure that we gave  
10 it a hearing as quickly as possible.

11 Along with the availability of data  
12 through a single web portal, the bill also  
13 requires that public data sets be updated online  
14 and often enough to preserve their integrity and  
15 their usefulness. The data sets would be  
16 available without any registration, license or  
17 restrictions and would allow automated processing.

18 The bill also requires the city  
19 to implement a web application programming  
20 interface which would allow third party programs  
21 to request and receive information from the city's  
22 website in real time and pass that information to  
23 the users of their application. The bill mandates  
24 that DOITT establish an internet data set policy  
25 and all other agencies to review their data sets

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2 under their control and to submit a compliance  
3 plan to be achieved by 2013.

4           It is contemplated of course that  
5 some data can be made available immediately and  
6 that data should be. Other data will take longer  
7 and that is contemplated by the bill giving the  
8 city more time to accomplish this.

9           I've always said that if you put  
10 the data out there, there is an entrepreneur ready  
11 to make an app out of it in about 30 seconds. We  
12 may not be able even to envision what they would  
13 create but let's unleash the power of creativity  
14 here. Let's give the tech world an opportunity to  
15 show government how it can work better. I believe  
16 that this bill can bring people closer to their  
17 government not only to make it more user friendly  
18 but also to be able to challenge it.

19           It's time to dismantle some of the  
20 barriers between New Yorkers and their  
21 information. While New York City already has made  
22 some very useful information public on nyc.gov  
23 such as the building information system, ACRIS,  
24 NYCSTAT, much of that data is available only in  
25 proprietary and/or visual formats and not all of

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2 it is raw data.

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For instance today we can only access COMPSTAT data in PDF form. Some of these databases specifically forbid automated machine processing. Let's tear down that wall and make this information available in its most raw and useable form.

The full benefit of publicly available data sets can be constrained only by the limits of our collective imagination. We look forward to hearing from the administration, Commissioner Post is here, and to all of those who are interested in testifying today. I want to note that in order to make for a more dynamic conversation between those present and those who are watching our live stream on the internet and by the way that is being live streamed at [www.livestream.com/nycctechcomm](http://www.livestream.com/nycctechcomm). We are going to be taking questions and comments sent via email and twitter.

As indicated on the slips made available near the sergeant-at-arms, you can tweet this hearing using the hash tag INT029 or NYCOPENGOV or you can send an email to

1  
2 [NYCCTECHCOMM@gmail.com](mailto:NYCCTECHCOMM@gmail.com).

3           So now that we've dispensed all  
4 these ways to communicate in this hearing, I'd  
5 like to ask council member Brewer to make some  
6 opening remarks and again we thank her for  
7 introducing this bill.

8           COUNCIL MEMBER BREWER: Thank you  
9 very much Chair Garodnick. It's an honor to be  
10 here. I think we've come a long way in the last  
11 year, it was actually a year ago had a hearing on  
12 this earlier version of this bill and it's really  
13 great to be here with so many of you to do, just  
14 to have a discussion about a bill as the Chair  
15 indicated, that has a lot of transparency and  
16 opportunity. And I want to thank Commissioner  
17 Post also because when she first started she did  
18 publish a 30 day strategy paper which talked about  
19 the issues of transparency and the need I think  
20 for it to take place.

21           You know, the issue before us and  
22 Intro 29 is very exciting because I think it does  
23 a lot of, gives a lot of extraneous opportunities.  
24 You know there are perhaps 90 city agencies. Some  
25 of you know that our budget is the fourth largest



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2 in the United States and probably larger than most  
3 nations in the world. So there are a lot of data  
4 sets, there are a lot of data. And the question  
5 is how to make it available so that it is  
6 something that can be used.

7 I do think that if we are able to  
8 pass this legislation in a format that is able to  
9 be worked on by both the administration and the  
10 council, there will be less FOIAing. As you know  
11 there are many many FOIAs. Some of you who many  
12 not have FOIAed may not FOIA but this is a very  
13 constant not just for reporters but also many New  
14 Yorkers.

15 As the Chair indicated there is a  
16 need to provide jobs in the city of New York and  
17 just having this data will enable developers and  
18 others to create jobs out of it. The MTA has done  
19 a little bit of that with the data that they have  
20 released and of course I have a very personal  
21 interest in the sense in that when the Chair and I  
22 and the Commissioner went to hear the Mayor  
23 announce the apps that he did and it was a very  
24 exciting moment for the city of New York, it was  
25 mostly and with all due respect, and these are

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2 important things that tourists might like or  
3 people who are paying, you know, have interest in  
4 specific touristy kinds of things about New York.  
5 Parking places, to be very honest is not the  
6 number one issue on my list.

7           However, I am very concerned about  
8 low income New Yorkers and middle income New  
9 Yorkers and figuring out ways that some of the  
10 data that social service agencies have could  
11 enhance the lives of New Yorkers who need our  
12 services the most. So that would be another way  
13 that this data could be used.

14           And of course, just keeping this  
15 data updated. It is very difficult. I went on  
16 the Washington, Chicago, Boston, San Francisco  
17 websites just to see what they're doing with their  
18 data and to be honest with you, some of them have  
19 data that is outdated. Just by doing the work  
20 that we are trying to do, it has to be kept  
21 updated and I think New Yorkers would help the  
22 city to do that. So there are so many ways this  
23 data could be used and obviously in formats that  
24 make sense.

25           In final, I want to thank Lou

1  
2 Klettner from the New York Community Fiber  
3 [phonetic] who has been webcasting this committee  
4 for many years and we appreciate it, Joely McPhee  
5 from the Internet Society and certainly the people  
6 from NYC IT division. This particular hearing is  
7 also available in the room next door. It's never  
8 been done before in the city council. And thanks  
9 Kanal Mahach [phonetic] from our office and Sam  
10 Wong. Kanal's going off to law school, so this is  
11 going to be his last hearing and Sam Wong is  
12 graduating and going off to a job so we're very  
13 upset they're leaving but we thank them for all  
14 their work and thank you Mr. Chair.

15 CHAIRPERSON GARODNICK: Thank you  
16 council member Brewer and Commissioner, the floor  
17 is yours, welcome and we thank you for being here  
18 today.

19 COMMISSIONER POST: Great, thank  
20 you Chair Garodnick, council member Brewer. I  
21 appreciate being here and being able to talk about  
22 this topic. My name is Carol Post and I'm the  
23 Commissioner of Department of Information  
24 Technology and Telecommunications or DOITT as we  
25 call it.

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2           Joining me is James Parazzo, he's  
3 the assistant commissioner for web and new media  
4 operations for DOITT and just a pause on that  
5 introduction when I was last testifying here  
6 during budget hearings we spoke about some of the  
7 reorganizations that were occurring. James is  
8 actually the embodiment of one of those groups.  
9 He's been with the agency about eight years but  
10 since January we have repurposed him to build upon  
11 his skill set but to expand it into precisely this  
12 area to build upon the web and new media platforms  
13 and the opportunities that they represent.

14           I just want to take a moment to  
15 brief you on some of the advancements that the  
16 city has made with respect to open government and  
17 open data. For the past eight and a half years,  
18 the Bloomberg administration has been making New  
19 York City government more open and transparent  
20 than it's ever been. The city provides a wealth  
21 of information and data which every day is being  
22 made more accessible and interactive. A few  
23 examples include the city wide performance  
24 reporting tool, the my neighborhoods statistics  
25 feature, the New York City map, the stimulus

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2 tracker, the NYC Scout, and 311 online. All this  
3 information and more has been made available at a  
4 portal called NYSTAT which you referred to.

5 NYSTAT is one example of how the city is  
6 proactively aggregated disparate data and make it  
7 more accessible and user friendly eliminating the  
8 need for visitors to have to hunt and peck to find  
9 what they are looking for and in many cases there  
10 is raw data available there for dissemination by  
11 the public.

12 The amount of city information made  
13 available via nyc.gov today far exceeds anything  
14 previously available in the city's long history  
15 and meets or exceeds that of any other city in the  
16 world.

17 In the past year, the city entered  
18 the next phase of the open government movement  
19 that of open data. As the flood of social  
20 networking technology transforms government in a  
21 fundamental sense, the city must remain at the  
22 vanguard of that movement. The city will continue  
23 its efforts to develop innovative applications and  
24 to make the raw data behind these applications  
25 open and available. This is the public's

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2 information and we want to continue making it  
3 available in as many ways as we can. Accordingly  
4 last summer we worked with the city's Economic  
5 Development Corporation on the NYC Big Apps  
6 program which council member Brewer referred to.

7 NYC Big Apps is a program whereby  
8 hundreds of data sets were made available to the  
9 public to create and develop new and unique  
10 applications and tools for public use. The  
11 program resulted in 80 new applications developed  
12 by the public for the public at essentially no  
13 cost to the city. These applications are now  
14 widely in use across the city and across the globe  
15 by New Yorkers, businesses and visitors.

16 The 200 data sets that were made  
17 available as part of NYC's Big Apps remain  
18 available at the NYC data mine which is accessible  
19 at NYC.GOV. The data mine represents data sets  
20 from nearly 30 city agencies and is searchable,  
21 sortable and free to the public. DOITT is now  
22 working with these agencies to add data sets to  
23 and improve the usability of the data mine for the  
24 second round of NYC Big Apps later this year.

25 As transformative as these

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2 initiatives have been and we do expect them to  
3 continue. We fundamentally agree with the city  
4 council that we can do more. And  
5 institutionalizing the unprecedented gains made by  
6 the administration will insure for future  
7 generations of New Yorkers a city government that  
8 is transparent and accountable. That said,  
9 today's proposed legislation presents a number of  
10 fiscal, operational and technical considerations  
11 that may be problematic for the city. Chief among  
12 these are concerns about establishing reasonable  
13 limits on the use of data to preserve the  
14 integrity and capacity of a universal warehousing  
15 system.

16           While we agree with the council  
17 that ideally every data set that does not pose a  
18 security threat, compromise public safety or  
19 contain personally identifiable information would  
20 be publicly available that is neither fiscally nor  
21 operationally feasible in the short term. To  
22 really get open data right, we would propose an  
23 approach that would seek to classify data in terms  
24 of established criteria such as technical  
25 availability, timing and frequency of updates,

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2 costs to implement and ultimately value to the  
3 public.

4 We would support a clear set of  
5 standards around what types of data agencies need  
6 to publish and when with certain minimum city wide  
7 guidelines. While it's currently drafted Intro 29  
8 speaks to these ideas in part, we believe some of  
9 it remains somewhat loosely defined to be able to  
10 move forward without revision. The administration  
11 would seek the opportunity to better survey and  
12 qualify the criteria by which agencies are  
13 required to categorize and disseminate their data.

14 We are now meeting with city  
15 agencies to assess in more detail the challenges  
16 and impacts posed by the legislation. It was just  
17 such a collaborative approach that enabled the  
18 Mayor's Office of Operations to develop the city  
19 wide performance reporting tool. As we continue  
20 these discussions we would like to work closely  
21 with the council to find common ground on the  
22 comprehensive open data legislation that can have  
23 substantial and lasting impact on the way city  
24 government develops and shares information.

25 This approach will take some time



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2 but we hope to establish as a result what we hope  
3 to establish as a result is an achievable and  
4 realistic path by which the city can make more  
5 public data centrally accessible online. And we  
6 hope that non-Mayoral city agencies like the city  
7 council, Comptroller's office, the Public Advocate  
8 and community board offices would also classify  
9 and contribute their data as part of these  
10 efforts.

11 The Bloomberg administration has  
12 consistently worked at creating a new city  
13 government paradigm regarding data believing that  
14 it should be open by default unless there is a  
15 compelling reason, usually privacy or security  
16 related, to keep it closed. We look forward to  
17 working with the council in crafting meaningful  
18 legislation to that end. This concludes prepared  
19 remarks and will now be please to address any  
20 questions. Thank you.

21 CHAIRPERSON GARODNICK: Thank you  
22 very much Commissioner for your testimony and  
23 again for your presence here today. I have a  
24 number of questions I know Council member Brewer  
25 does too. We thank you for your general flavor of

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2 support for the bill. Though I think that we  
3 should now delve a little bit into some of the  
4 concerns that you have specifically and see if  
5 there are ways for us to address them here or  
6 beyond this hearing.

7 First of all, you noted that you  
8 believe that the bill is not fiscally or  
9 operationally feasible in the short term. As you  
10 know the bill divides up public data sets into a  
11 few different categories. One is the immediate  
12 category which is public data sets that are  
13 currently maintained by an agency. Legacy, which  
14 is public data sets that are, you know that are  
15 due to their size or complexity can't be made  
16 available until January 2012 or Priority which is  
17 essentially anything else. You noted that there  
18 are impediments to getting some of these addressed  
19 immediately. That also appears to be addressed in  
20 the bill.

21 Why is there a problem with just  
22 putting up data which is already available and out  
23 there within 30 days for the immediate category as  
24 set forth for the bill?

25 COMMISSIONER POST: Well, there's

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2 clearly not a problem with doing that, we have  
3 been doing that. I think actually Big Apps  
4 represents the most advanced step that we've taken  
5 so where data was easily readily available in the  
6 appropriate formats that's been made available,  
7 that's where we have the 200 plus data sets out  
8 there. Where it begins to get challenging is for  
9 information that is not readily accessible or  
10 readily available and that's where there are both  
11 technical and in some cases fiscal constraints to  
12 be able to make those conversions. And those are  
13 not insurmountable. I want to be clear about  
14 that, it is simply a matter of understanding what  
15 the priorities are in order to set forth how we  
16 want to approach those as I said, making sure  
17 there is a sense of, what's the public value for  
18 it as we go through because we can't turn it all  
19 on at once. We are interested in being able to  
20 convert it over time.

21 CHAIRPERSON GARODNICK: So the  
22 point is that it's not readily available so timing  
23 is an issue which it can, of course is also  
24 contemplated by the bill so I don't think that  
25 necessarily we are that far off. Do you, or does

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DOITT or the administration have any issue with creating a fixed timeline here by which certain categories of data must be made available?

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COMMISSIONER POST: I think principally, no. I think we would like to have a self-imposed timeline as well. What's unclear is what that timeline should be to be realistic.

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CHAIRPERSON GARODNICK: Right, at the end of the day we don't know whether it will be self-imposed or whether it will be putting it here in the legislation but right now January 2012 is set as the date for data which is not immediately available, the 30 day information. Do you think that that is too fast?

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COMMISSIONER POST: It's hard for me to comment now because the issue is going agency by agency to delve into the data sets that each agency has as we said for the Big Apps program we did that with all of the city agencies and what it revealed was what was easily accessible and readily available so we pulled all of that out. The next step then is to dive a bit deeper to pull back the skin a little bit and see what's under there and that's the effort that we

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would want to take some time for.

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I used by comparison the idea of the city wide performance reporting tool and this was a program that I was involved with in my prior life at the Mayor's Office of Operations that was something similar to this in that it went, the ideas was to provide for a common input for agencies to use with a universal output and a universal publication to the public and in doing so required agencies to transform a great deal of data over time but it was an exercise of literally going agency by agency into their data systems to be able to pull that out, undergo the conversion and then be able to publish it. So it is a matter of timing I think.

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CHAIRPERSON GARODNICK: So that review process with the city agencies, obviously pulling back all the layers and trying to sort all of that out as we had discussed that you are endeavoring to do in past hearings, how long a process is that exactly? Can you give us a sense of timing because if we are going to endeavor to set specific parameters for time we want to make sure of course that it is done right and we have

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the proper protocols across agencies to be able to do this in a comprehensive and ongoing basis. How long is it going to take for you for a review city agencies to assess the detail and the challenges that would be posed?

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COMMISSIONER POST: I don't have an exact time frame for you when we did the citywide performance reporting exercise the entire undertaking took a bit more than a year. My proposal would be that we take this a little bit, in a couple of phase in working with the council to move this legislation forward. I'd like to be able to have discussions with city agencies. A little bit of back of the envelope to be able to understand the challenges and then be able to set forth with what we hope would be more exhausting undertaking.

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CHAIRPERSON GARODNICK: Okay, so there's not really an answer to that question at this point.

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COMMISSIONER POST: I don't have one at this time. I think we need to be able to have those discussions with each agency or at least the key primary agencies where we know some

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2 data is locked in and to be able to have a better  
3 sense of what the challenges are.

4 CHAIRPERSON GARODNICK: Okay,  
5 that's a conversation obviously that we'll have to  
6 have together and think about what is the  
7 appropriate timeline if not January 2012 for the  
8 stuff that is not immediately available.

9 You noted about the NYC data mine  
10 which included a repository of over 80 data sets  
11 back in-

12 COMMISSIONER POST: 200.

13 CHAIRPERSON GARODNICK: Now, it's  
14 200. Okay, so was it 80 a year ago and now it's  
15 200 or was it always 200?

16 COMMISSIONER POST: It was always  
17 200 and the 80 referred to the number of  
18 applications that were built from it via the Big  
19 Apps competition.

20 CHAIRPERSON GARODNICK: So you put  
21 in 200 data sets into NYC data mine last June was  
22 it when it all came out, is that right? And there  
23 were 80 applications. Have you added any data  
24 sets to NYC data mine since last June? Have there  
25 been any new ones?

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COMMISSIONER POST: Have we added?

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I don't think there's been full data sets added.

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There has been updates and enhancements to the

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existing data sets.

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CHAIRPERSON GARODNICK: Can you say

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a little bit more about the enhancements to the

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existing data sets?

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COMMISSIONER POST: Well, it's

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mostly refining to the extent that someone had

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visited the data mine, if there were issues with

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transmitting or pulling or accessing it. We were

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fine tuning it and certainly updating information

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that needed to have frequent updates in order to

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be refreshed and be of value.

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CHAIRPERSON GARODNICK: And who

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does the updating of the data sets that are

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currently on NYC data mine.

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COMMISSIONER POST: DOITT is the

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steward of the data mine and it reaches out to

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each individual agency to ensure that they're

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properly updated. The updates thereafter come

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form each individual agency.

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CHAIRPERSON GARODNICK: And how

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often is that data updated, is that done in real



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2 time or is that something that's done every week  
3 for the ones that need updating. How does that  
4 happen?

5 COMMISSIONER POST: It depends on  
6 the frequency. The trick about the data mine from  
7 the time it was published is that it was part of a  
8 competition. So in order to ensure the integrity  
9 of the competition we needed to basically populate  
10 the data mine and then sort of close it and let it  
11 remain static during the term of the competition  
12 so that no one who entered the competition earlier  
13 would be disadvantaged by someone coming in later  
14 and having more data. So there was sort of a  
15 period where it was closed but for refinements or  
16 if there were enhancements that needed to be made  
17 to facilitate the use of the data and thereafter  
18 that was launched in November, October, November  
19 so there have been updates to this but it depends  
20 on the nature of the data so for example, school  
21 data, Department of Education data's usually just  
22 done annually whereas other data might be done on  
23 a more frequent basis.

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This is actually sort of the  
evolution of the data mine which is to move it out

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2 of being simply a vehicle for competition and  
3 being more of a regular ongoing vehicle for public  
4 use.

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CHAIRPERSON GARODNICK: Exactly.

6 And I think that's the real intent of the bill  
7 which is NYC data mine shouldn't be so  
8 extraordinary, it should be what we are looking to  
9 do all the time. The bill distinguishes between  
10 raw data so that which is available in a machine  
11 readable format from cooked data which has been  
12 analyzed and summarized into a report. Do you  
13 have a sense of how many data reports are  
14 available by the city, made available by the city  
15 on NYC.GOV? Do we, is that something you all have  
16 a measure of?

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COMMISSIONER POST: Total reports?

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Or raw versus—

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CHAIRPERSON GARODNICK: Well, if

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you can break it down to that level that would be

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useful too.

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COMMISSIONER POST: I don't have it

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on hand but I'm certain that we could obtain a

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master list of all the data that is currently

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available on NYC.GOV.

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2           CHAIRPERSON GARODNICK: Okay, I  
3 think that would be useful for us and also the  
4 cost. It's our sense that by putting data out  
5 there and endeavoring to do this it obviously  
6 comes with potential cost but also potential cost  
7 savings through the reduction perhaps in FOIA  
8 requests and things and things like that. Have  
9 you considered what the administration believes to  
10 be the cost of implementing a system like-  
11 assuming your framework where you have a little  
12 more time to go forward with it and then and put  
13 all this information out there. Do you have a  
14 sense of cost?

15           COMMISSIONER POST: We haven't done  
16 a cost analysis, no.

17           CHAIRPERSON GARODNICK: Do you have  
18 a sense about the city's budget for processing and  
19 completing FOIA requests?

20           COMMISSIONER POST: I don't have a  
21 window into the entire city I know what my agency  
22 undergoes in FOIAs and there is hard dollar costs  
23 and then there's sort of the unaccounted costs in  
24 terms of time and use of personnel and resources.  
25 But no, I don't have an exact number for you.

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2           CHAIRPERSON GARODNICK: It seems to  
3 me that they link together, the more you make  
4 available the less people have to request. So,  
5 but I wouldn't expect you to necessarily have all  
6 that information. I thought maybe maybe there was  
7 a chance you had it today. One more question from  
8 me and then I am going to go to council member  
9 Brewer. The bill also includes an application  
10 programming interface requirement. How would  
11 DOITT do it, essentially? How would you put that  
12 into place? Is that something you would have the  
13 expertise to do in house or would you need to  
14 outsource that sort of thing? Give us a sense of  
15 how you would make that happen.

16           COMMISSIONER POST: Sure, with  
17 respect to what's expected from the bill, that may  
18 take a further discussion, I can tell you what we  
19 have as far as an expectation on ourselves and I  
20 can defer to James who is actually responsible for  
21 and in the process of building this out but the  
22 idea of having the skill set within the agency to  
23 offer to the city and others is the idea of being  
24 able to build applications and to be able to have  
25 common platform to be able to use this data on

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2 ways that sort of take it to the next level, out  
3 of being simply raw data and into useable formats.  
4 So, we'd like to be able to do that internally but  
5 what we learned and I think what really revealed  
6 itself from Big Apps is that most of the great  
7 value comes from people using the data outside of  
8 the city and being able to use tools as you  
9 referred to. Someone can take the data and in 30  
10 seconds do something really fantastic with it. So  
11 we'd like to continue to forge relationships or  
12 partnerships that can foster those kinds of  
13 developments as well and kind of have both  
14 functions available to us.

15 CHAIRPERSON GARODNICK: Okay, well,  
16 thank you for that. I am going to turn over to  
17 council member Brewer for some questions. I may  
18 have a few more of my own at the end. Thank you.  
19 I'm sorry I didn't note that we were joined for a  
20 moment by council member James, council member  
21 Koppel is here and now we go to council member  
22 Brewer.

23 COUNCIL MEMBER BREWER: Thank you  
24 very much. I know you worked hard at Operations  
25 and you're working at DOITT to get agencies to get

1  
2 more consolidated in terms of some of their  
3 operations. How will this feed into that? In  
4 other words, is there more sharing of data sets?  
5 Because obviously that would be something that we  
6 want, we want less silo, we want more  
7 collaboration. So how could the project and this  
8 bill help do that and is that something that's  
9 also your goal?

10 COMMISSIONER POST: Well I think  
11 modeling it off to the extent that it has a  
12 comparison to the city wide performance reporting  
13 exercise which was about taking performance  
14 metrics and getting them into a more universal and  
15 consolidated state, both from the agency's  
16 perspective in terms of how they delivered that  
17 data and DOITT's perspective in terms of how it  
18 was published to the public so rather than having  
19 to agency to agency and having to hunt and peck  
20 for information it's now in a single repository  
21 and it's actually been made easier for agencies to  
22 be able to populate it on a regular recurring  
23 basis. So I think that's the model we'd like to  
24 try to follow and as I said when it's all done it  
25 looks great and it's a useful tool but it was a

1  
2 relatively heavy lift to get there because the  
3 agencies have evolved organically and grown.  
4 There's a wealth of information out there but it  
5 hasn't been done on universal standards.

6 COUNCIL MEMBER BREWER: So I know  
7 COPIC [phonetic] years ago in 1989 said that the  
8 city should publish a data listing basically of  
9 all the databases. So does DOITT now have do you  
10 think all the listing of the databases that exist  
11 and was that one of your biggest challenges?

12 COMMISSIONER POST: That is  
13 definitely one of the challenges. So when I  
14 referred to being able to quantify the data that  
15 is available on NYC.GOV that's sort of square one.  
16 What's going on at city agencies is both data that  
17 is available, readily available as I said and  
18 accessible but there is a wealth of information  
19 that is used operationally that hasn't really made  
20 it to the public data base not for any other  
21 reason than it was grown organically out of the  
22 spreadsheet or maybe into an access database or  
23 something that sort of matures on its own and  
24 there is no single catalogue of all that  
25 information.

1  
2 COUNCIL MEMBER BREWER: And how do  
3 you get all the data bases once you find them and  
4 the legacy systems coming in line and so on. How  
5 do you deal with the format issues? Is that also  
6 something that would be part of this effort?  
7 Because obviously for the public it's an issue for  
8 collaboration, coordination, etc.

9 COMMISSIONER POST: It definitely  
10 is and that's again referring to the challenges  
11 that will face agency by agency and frankly data  
12 base by data base to be able to develop a  
13 universal standard for both the agency to provide  
14 the data and for DOITT to publish it. That's one  
15 of the main challenges.

16 COUNCIL MEMBER BREWER: So how does  
17 one get the agencies to conform to giving. I know  
18 for instance I have friends who work for HRA. HRA  
19 has a lot of databases that you don't know  
20 anything about so, because they don't know  
21 anything about them in some cases, so how does one  
22 go about getting this to be some, is it Operations  
23 that does this, is it you that does that, who has  
24 the authority to be able to say to some of the  
25 silos, we need to--this needs to happen? How does



1

2 one go about that?

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4 COMMISSIONER POST: Well, I think  
5 that's what we need to determine from the  
6 administration side is how to approach this  
7 programmatically and I'm sure that there are a  
8 number of ways to tackle that and we would like to  
9 be able to come back and have a solid plan for  
10 you. The idea of setting criteria for in  
11 legislation of this sort helps that in terms of  
12 being able to establish sort of a set of  
13 priorities so that we are able to approach it in  
14 an iterative way rather than saying it's all by x  
15 date which does provide, the bill does propose  
16 sets forth kind of an iterative approach but I  
17 think we wanted to add a little more structure  
18 around that so it's clear what we want by when and  
19 how to get it.

19

20 COUNCIL MEMBER BREWER: Okay, and  
21 obviously part of that would be what kind of  
22 language is it, XML or dealing with the  
23 spreadsheet challenge and so on so I assume that  
24 all of these are the challenges that you are  
25 talking about, the language, whether it's RSS and  
so on.

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COMMISSIONER POST: Yes.

COUNCIL MEMBER BREWER: The only other question I have is the 311 data. How does that fit into all of this because it's a different kind of data set. It's obviously something that's up on the web in terms of the by borough and so on. Because there is I guess a national effort. Again New York is so huge we are not part of with all due respect to Washington and San Francisco, I understand all that. But there is a big effort to do this open 311 system back to this issue of trying to be comparable with other cities so I'm just wondering because 311 brings in sort of-- having this bill I think would help the 311 operators answer some of their calls because knowing that this has been you know a problem for a long time etc., would be something that I think would help solve some of these problems. Certainly could help the community boards I can promise you having at with them and trying to deal with their district service cabinet so how does the 311 data fit into all of this discussion if at all.

COMMISSIONER POST: Well, it does.

1  
2 I'll let James answer some of the specifics that  
3 you asked he has dealt extensively with 311 and  
4 the use of its data and the transformation of its  
5 data into different forms and uses. But  
6 principally 311 is, it's a microcosm I think of  
7 what we want to achieve which is using data that  
8 is available but in ways that are kind of  
9 advancing the cause so 311 data where we have been  
10 able transform our scout data into having it be  
11 mappable is one advancement and we want to be able  
12 to take those things further. Do you want to  
13 speak about some of the open data discussion that  
14 we have discussed with respect to 311?

15 JAMES PARAZZO: Sure, the 311 data  
16 as with many other data sets is included in some  
17 form in the Big Apps and would be included in the  
18 data that we give out. It's also as you mentioned  
19 given out specifically with 311 given out in  
20 accordance with the law.

21 COUNCIL MEMBER BREWER: By law.

22 MR. PARAZZO: With your law. In  
23 the format specified by that law. We are always  
24 looking for ways to give that data out within its  
25 own context and to have that contribute to other

1  
2 contexts. The movement that you referred to, open  
3 311, we have participated in conversations about  
4 that with San Francisco and D.C. and other places  
5 and we are supportive of the concept to the extent  
6 that there is a national API developed is workable  
7 for us and data will be available through that.

8 COUNCIL MEMBER BREWER: When I go  
9 to data mine on your site, which is a wonderful  
10 site, and the question is how does the public  
11 right now, in other words right now you have over  
12 200 data sets and the fact of the matter is people  
13 can take those and make something of it if they  
14 want. Do you keep track, I don't know if this is  
15 possible but, do you keep track of other requests  
16 that people might come in with that could indicate  
17 that this is something that the public is  
18 interested in? People, I don't know health  
19 statistics, environmental or whatever, something  
20 that-

21 COMMISSIONER POST: Well we have a,  
22 as part of the data mine, we invite comment as  
23 part of the what's not there so if there is there  
24 is a particular interest in data you can submit a  
25 form right there with the data mine that says you

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know what were you looking for, did we not have it, that's some of what help inform us of what we should be adding.

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COUNCIL MEMBER BREWER: What

agencies are perhaps right now as part of the 200 data sets and I should probably know this are the ones that are the easiest to come forward in terms of their information? Are there some agencies that have you completely given you all of their data as far as you know?

COMMISSIONER POST: I don't know if

every single agency has completely given data. As I said there's literally, you know, there's some functional areas that have spreadsheets that are used and logs and those are done just for operational purposes. But the agencies have been in terms of getting through the Big Apps Stage I there was a great deal of cooperation and an openness to get there again in terms of what was readily accessible and available. There is a commitment to be able to turn that over. The next trick is to get to the more challenging information.

COUNCIL MEMBER BREWER: Well, thank

1  
2 you very much. I'm very excited at the notion of  
3 working with you on this issue and as you can see  
4 from this turnout today and from the other room  
5 there were certainly quite a few tweets already,  
6 lots of emails I'm sure particularly in the city  
7 of New York there's a huge interest in this topic.  
8 And I think that in the end it would mean not only  
9 savings for the city if we could ever get those  
10 FOIA numbers but in addition it would mean jobs  
11 and opportunities that didn't exist. Of course my  
12 other prime interests are the 59 community boards  
13 and having sat through hundreds of I'm afraid  
14 meetings of community boards, clearly with the  
15 different agencies it would make a world of  
16 difference to local planning. So thank you very  
17 much. That's it for questions.

18 CHAIRPERSON GARODNICK: Thank you  
19 council member Brewer. I want to note that when  
20 we're finished hearing from the Commissioner we're  
21 going to hear from members of the public and we  
22 are going to have a three minute time limit  
23 because we have to relinquish the hearing room for  
24 another committee at some point, not immediately  
25 but at some point. So we are just preparing for

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that.

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I wanted to note we have a couple of online questions that have come in so I am going to pose those directly to you Commissioner. They are along the same lines so I am just going to give them to you together. The question is how can DOITT engage the community on open data?

There's a concern that DOITT is not reaching out enough and whether there are ways you can encourage people to participate. I know you just gave an example of how you asked people at the end of NYC data mine. Are there other ways that DOITT can be taking more affirmative steps to engage the public on open data?

COMMISSIONER POST: Well, I think the answer is always yes, we can always be doing more. One of the other areas that I spoke of again, in terms of reorganizing the agency, gave a specific purpose to engaging our business community and our resident community in terms of how we can be doing better and in terms of outreach I spoke last month at the Personal Democracy forum, previously I've attended Tech Meetup sessions and the idea is that we should be

1  
2 actively participating in these types of  
3 communities, sharing what our agenda is and how we  
4 want to move forward with that as well as hearing  
5 feedback from the constituents and those who can  
6 help us achieve that goal so we are very  
7 interested if there are forums, sessions, seminars  
8 that we would be happy to participate in and I'd  
9 like to hear about those.

10 CHAIRPERSON GARDONICK: Okay, so  
11 we've heard from the Commissioner, invite her  
12 everywhere because we do want to make sure that  
13 you get the feedback from the community out there  
14 because they will be the best guide in telling you  
15 where there are gaps or where there is an  
16 opportunity for more openness.

17 So let me go to a couple of final  
18 questions from me. In your testimony you noted  
19 that there were fiscal, operational, technical  
20 considerations and you say chief among these are  
21 concerns about establishing reasonable limits on  
22 the use of data. Can you give us a sense of what  
23 you view to be reasonable limits on the use of  
24 data and what you propose because there is a  
25 concern about whether that could have a chilling



1  
2 effect on the use of the data and reasonable is in  
3 the eye of the beholder if you will. Can you give  
4 us a sense of what you believe to be reasonable  
5 limits?

6 COMMISSIONER POST: Well,  
7 reasonable is, I think it's the appropriate term  
8 and where we define it is with these further  
9 discussion I would welcome other agencies and in  
10 terms of establishing some of these parameters  
11 within ultimately the legislation. The idea  
12 though is I think twofold. One is to first and  
13 foremost, protect the integrity of the data that  
14 is not and should not be made available to the  
15 public. At the end of the day the city is the  
16 steward of very crucial and critical information  
17 an data and I think we want to be careful never to  
18 err on the side of overexposing and disclosing  
19 information that would both be damaging to those  
20 who would be the subject of it and I think damage  
21 the credibility of what we're trying to do so the  
22 reasonableness of ensuring that protection of the  
23 integrity of that data.

24 The other is a little more from the  
25 technical perspective which is ensuring that the

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2 methods and means by which we make the data  
3 available have appropriate limits is not really  
4 the right term but appropriate mechanisms to  
5 ensure that no single entity can sort of tap in  
6 and sort of use the capacity for purposes that  
7 limit any other ability to tap in. It's a, to the  
8 extent that it's a broadband issue, it's a  
9 capacity issue. Being able to ensure that we  
10 package the data in a way that everyone can access  
11 it as they need to and no one is sort of kept off  
12 the wayside while others are tapping in. I think  
13 it's both the integrity and the capacity issues.

14 CHAIRPERSON GARODNICK: So if I'm  
15 understanding you correctly, it's not really  
16 reasonable limits on the use of the data some of  
17 it is really the question of what data in the  
18 first instance is put out there at least for  
19 problem one as you described, to protect privacy  
20 interests the city might have. Is that right?

21 COMMISSIONER POST: That's right.

22 CHAIRPERSON GARODNICK: But once  
23 it's out there are you talking about limits on the  
24 use in some form or another and once it's acquired  
25 and once you get over technical hurdles that you

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2 cited and pronged to is there any reasonable limit  
3 on the use that you anticipate?

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COMMISSIONER POST: Well, again, I  
5 think I want to be able to preserve an opportunity  
6 for agencies to opine about their respective data,  
7 any particular data set that may have particular  
8 issue or matter where a reasonable limit makes  
9 sense. I don't know that there is one but I think  
10 it's of importance that we're mindful of that and  
11 I think more so is the fact that once data is put  
12 out into the public realm that there is an  
13 understanding after that. We can't necessarily  
14 vouch for the integrity of that once it's been  
15 manipulated in ways we want to be able to ensure  
16 that there is an integrity to what was published  
17 and thereafter it's on its own after that. And  
18 there's concerns about that.

19

CHAIRPERSON GARODNICK: Of course  
20 once you put it out there and allow individuals to  
21 double check and make sure that all eyes are on it  
22 and it does have some element of protection as  
23 well but it sounds like sitting here today you  
24 don't have anything in particular in mind about  
25 what might constitute a reasonable limit on use

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2 but you didn't want to foreclose the possibility  
3 of an agency identifying something to you that you  
4 have not yet considered. Is that correct?

5 COMMISSIONER POST: Yes, that's  
6 correct.

7 CHAIRPERSON GARODNICK: Okay and  
8 then you also noted that among the—in the approach  
9 that you recommended about how to classify data,  
10 technical availability, timing and frequency of  
11 updates, costs to implement and ultimately you say  
12 value to the public. Question of course is  
13 another one along the lines of reasonableness.  
14 Shouldn't we be concerned when it's the agency  
15 that's making the determination on value to the  
16 public? Might that not ultimately restrict data  
17 because of the bureaucratic absence of imagination  
18 perhaps? How do we address that?

19 COMMISSIONER POST: Well, I think  
20 in the remarks that I made. It's not intended to  
21 imply that we would be reserving the ability to  
22 make those judgment calls. I think each of those  
23 factors should be brought into consideration and  
24 the idea is again if there are tens of thousands  
25 of data sets that have potential for publication

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2 and we can't do them all at once, which ones do we  
3 want to do during this iterative process and if  
4 the ultimate determination is which is going to  
5 bring the most value I think we want to be able to  
6 have that as part of the dialogue. I mean simply  
7 stated we don't want to I think we don't want to  
8 be expending efforts, resources, time and money to  
9 put data sets available that may be of little  
10 value. The obvious question is, who's to say? I  
11 think it's just a matter of having a broad set of  
12 criteria that can all come into play and into  
13 consideration.

14 CHAIRPERSON GARODNICK: Okay, we  
15 take your point on that for sure. With that, we  
16 see no other questions coming to us via the email  
17 address we set forth so we will thank you for your  
18 testimony and your presence and your support and  
19 we look forward to having further conversations  
20 with you and the administration about how to put  
21 together all of the right nuts and bolts here to  
22 be able to get this bill passed. So we thank you  
23 for your testimony.

24 Now we're going to turn to the  
25 public session and I'm going to invite up our

1  
2 first panel which will be Andrew Hoppin, Don  
3 Morrow, and Aaron Brown. And I just want to  
4 remind you gentlemen that we're going to have to  
5 put you on a three minute limitation. My  
6 apologies in advance but again we have to  
7 relinquish the room at some point. It's nice to  
8 see you all and welcome. So why don't we just  
9 start right over here. Go right ahead.

10 DON MORROW: Thank you. My name is  
11 Don Morrow. I'm the founder and Chairman of the  
12 New York Technology Council, a trade association  
13 whose mission is to help make New York a world  
14 recognized center of excellence for technology.  
15 Founded in 2009, NYTECH boasts over 250 member  
16 companies and is proud to include among its  
17 founding sponsors Google, Verizon, Information  
18 Builders, Citibank and others. I would like to  
19 thank the council for allowing me to speak today  
20 on this important topic.

21 As I'm sure everyone on this  
22 council is already aware, open data initiatives  
23 are taking hold across the country. From the  
24 California open government directive S2009 to the  
25 federal government's data.gov's data portal,

1  
2 governments are beginning to realize the societal  
3 benefits of open data standards. Indeed New York  
4 City as Commissioner Post has indicated, New York  
5 City has already begun to dip its toe into the  
6 oceans of data rightfully belonging in the public  
7 space. Last year's Big Apps competition invited  
8 entrepreneurs from around the city to develop  
9 software applications based on publicly available  
10 data sets from New York City agencies.

11 The competition was a huge success  
12 garnering dozens of submissions, 80 apparently,  
13 and paving the way for the recently announced New  
14 York City entrepreneurial fund and a \$300,000  
15 investment in one Big App company. There is no  
16 debating the positive impact of this program.

17 To paraphrase perhaps the biggest  
18 business leader of our time, the pointy haired  
19 boss from Dilbert, this bill is low hanging fruit  
20 and a win-win. It will empower synergies, shift  
21 paradigms, develop core competencies and encourage  
22 out of the box thinking. In short, this bill is a  
23 good idea.

24 This should not be a contentious  
25 bill. No one will lose a vote, no one will lose

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2 an endorsement, no one will lose a dollar of  
3 financing by supporting this bill. What you will  
4 gain is recognition from the community that your  
5 affirmative role will open doors for enterprising  
6 companies to develop new and exciting ways to  
7 experience New York City.

8           Without this law, left to their own  
9 devices, some city agencies, such as those already  
10 participating in Big Apps would no doubt take the  
11 initiative and release valuable data sets for  
12 public consumptions. Others however will be less  
13 than cooperative. A city mandate to publish these  
14 data sets would serve to overcome the petty  
15 bureaucracies and misguided excuses that  
16 frequently mire such programs.

17           Government regulation frequently  
18 lags technological changes. By enacting this  
19 legislation, you have the opportunity to break  
20 that trend and ensure that great New York City  
21 takes the lead in recognizing the power of  
22 technology to build trusting government, foster  
23 innovation and improve the society with which we  
24 live. I encourage the full council to pass this  
25 important piece of legislation soon. Thank you.



1  
2 AARON BROWN: Good morning Chair  
3 Garodnick, council member Brewer and the rest of  
4 the committee. Thank you on behalf of Google for  
5 the opportunity to be here and to testify on this  
6 important issue. My name is Aaron Brown. I'm the  
7 Senior Product Manager at Google based here in New  
8 York City. As you know, Google has a major  
9 presence in the city with over 2000 employees, our  
10 second largest world wide office here. We are  
11 very excited to be part of the city community and  
12 to participate in important discussions like this.

13 At Google we are very familiar with  
14 the power of data. We use it extensively to build  
15 our own products and perhaps more importantly for  
16 this discussion we build and make available  
17 platforms and tools for others to make data more  
18 available and more transparent whether it's  
19 through Google Maps or Google applications or  
20 purpose built data sharing platforms like Fusion  
21 tools and public data explorer.

22 We do all this because we recognize  
23 the importance of openness, transparency and broad  
24 based innovation around data. We want to help  
25 further promote those goals. Our perspective has

1  
2 always been that citizens should be just one  
3 search away from all online public information and  
4 we've worked with many state, local governments  
5 over the past years to help encourage those  
6 principles.

7           For example, we partnered with  
8 state governments to help them expose more data  
9 behind web forms and firewalls to search so that  
10 constituents can find it. We recently partnered  
11 with the state of California around their apps for  
12 California's initiative where they published a  
13 number of electronic data sets on our platforms  
14 that have made it easier for constituents to build  
15 innovative apps quickly on top of it. We worked  
16 with the Census Bureau, the CDC, and others to  
17 create interactive visualizations that bring  
18 population data to life and shed new light on  
19 inequities and opportunities in that data.

20           We've also seen many cases where  
21 public access to data has helped everyone from  
22 journalists to businesses to academics and  
23 grassroots organizations to take public data and  
24 quickly create compelling presentations. So all  
25 of these projects were made possible by the open

1  
2 electronic availability of public data and by the  
3 innovation of entrepreneurs that comes when they  
4 have access to it.

5           There's an important pattern here.  
6 One that we think is important to encourage where  
7 open data is driving innovation and as such we are  
8 very supportive of the goals of Intro 29 and look  
9 forward to any opportunity we might have to work  
10 with the city should it pass to collaborate on  
11 making New York City a beacon community in its  
12 support of availability of open data.

13           I would like to comment before  
14 wrapping up on a few of the provisions in Intro  
15 29. Based on our experiences, technologists are  
16 particularly critical to its success. The  
17 requirement that data be available in form to  
18 support automated processing, the requirement for  
19 API access to the data and the requirement that  
20 public data sets be accessible to search. We  
21 recognize that the cost to implement some of these  
22 provisions can be non-trivial. We believe it's  
23 important to set goals to achieve them even if  
24 they're phased over time. And we'd encourage the  
25 department to leverage the private sector where

1  
2 possible to accelerate this process perhaps  
3 working with Google and others in the industry  
4 that already have scalable open platforms with  
5 APIs to make data available.

6 So to conclude I'll just reiterate  
7 my support for Intro 29 and I hope the perspective  
8 I've provided today has been useful. Thank you  
9 for allowing me to testify.

10 CHAIRPERSON GARODNICK: Thank you.  
11 Right on the buzzer. Thank you. Go ahead,  
12 Andrew.

13 ANDREW HOPPIN: Hi. Thank you for  
14 having me here today. So in the New York State  
15 Senate the number one—

16 CHAIRPERSON GARODNICK: Why don't  
17 you actually identify yourself first.

18 MR. HOPPIN: I'm Andrew Hoppin,  
19 Chief Information Officer for New York State  
20 Senate. The number one project that has delivered  
21 value out of our working technology over the last  
22 two years in the New York State Senate in my  
23 opinion has been our open data effort. So with  
24 open data at NYSenate.gov we publish all of our  
25 administrative data: how much I get paid, how much

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2 money we spend on everything in a searchable  
3 sortable downloadable mashable form.

4 Similarly our work product is  
5 legislature. All of legislation is now available  
6 for free as feeds also with the what we think is a  
7 fairly intuitive interface and with an application  
8 programming interface so that third parties can  
9 build applications on top of that data. And we  
10 were able to accomplish all of that in less than  
11 year and actually we're able to net save money on  
12 all of our technology spending and bargaining just  
13 because of the way that we did it in concert with  
14 other organizations and enterprise IT.

15 So, all of this to say that we care  
16 about this deeply and we believe in it. And I  
17 think the relevance of that experience to New York  
18 City, which is admittedly a much larger and  
19 complicated set of data to consider publishing in  
20 this matter, is that you can start small and you  
21 can start modestly and you can do this work  
22 efficiently if look to the best practices that are  
23 being created by our peers and other governments  
24 elsewhere. This work is happening all over the  
25 country right now and New York would not be alone

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2 if it had the opportunity to lead we would also  
3 able to leverage off of a lot of work going on  
4 within government and within the private sector.  
5 And so I think that the complexity and the costs  
6 should not be impediments to going down this road  
7 because I think you'd get a lot of help in doing  
8 it.

9                   Also, another plug for government,  
10 government's as a customer, governments outside of  
11 New York City, governments need to collaborate  
12 effectively across all levels of political  
13 geography, local, state and federal. And I think  
14 one of the greatest benefits of opening up New  
15 York City's will be an enhancement of your ability  
16 to collaborate with your peers at other levels of  
17 government and certainly we count ourselves on the  
18 state level as being very interested stakeholders  
19 and potential collaborators of that data product.

20                   And then finally in terms of  
21 process, I would just encourage you to minimize  
22 the temptation to adjudicate what's going to be of  
23 value and what's not going to be of value because  
24 really the point of pushing this data out in a  
25 away that other people can leverage it is that

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2 they will come up with the innovation that  
3 otherwise civil servants would have to come up  
4 with and we'll never have all of the smartest  
5 brains within government, we'll never be able to  
6 hire enough people to do all of the work that we  
7 might like to do so as much as possible really  
8 focus on getting the data out in a mashable form.  
9 And so I think that having an API for city data  
10 would be really exciting and I think it would be  
11 great to collaborate with other government  
12 entities and the private sector in developing  
13 that. Thank you very much.

14 CHAIRPERSON GARODNICK: Thank you.  
15 Let me just follow up on that point, Mr. Hoppin,  
16 on the subject of minimizing the temptation to  
17 make the decisions ex-ante for the public about  
18 what is or should be made available. You heard  
19 the Commissioner talk about reasonable limits and  
20 also value to the public. Can you envision any  
21 reasonable limits that could or should be placed  
22 on these data sets? And she testified that there  
23 was nothing in particular that she had in mind but  
24 that agencies might come up with reasonable  
25 limits.

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2 From where you sit and I'll pose  
3 the same question to the other gentlemen, is there  
4 such a thing as a reasonable limit here?

5 MR. HOPPIN: Two things. One, I  
6 think certainly when an individual citizen  
7 information comes into play there are reasonable  
8 privacy and security questions that need to be  
9 answered but the lion's share of the data that  
10 I've seen governments publish effectively that's  
11 delivered value does not pertain to individual  
12 citizen information or records. In terms of, the  
13 way that I think you can address the obvious need  
14 to start with the low hanging fruit and to start  
15 somewhere and not let the perfect be the enemy of  
16 the good is to make decisions about what to focus  
17 on first as part of an open collaborative process.  
18 You know, use the same process and you hope the  
19 data will ultimately be used within meaning if  
20 publish the catalog of the data that is available  
21 take public input on what is of value will start  
22 the process of people thinking about and weighing  
23 in on what might be valuable in that manner rather  
24 than having that process go on behind closed  
25 doors.



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2           And then the other thing is I think  
3 to build your systems that are going to publish  
4 this data, you know build your API in a way that  
5 anticipates that everything is ultimately going to  
6 be published. And so you build that infrastructure  
7 that supports you going to that goal over time.

8           MR. BROWN: I'll just reiterate the  
9 point that I am not letting perfect be the enemy  
10 of the good, we have seen in our experience that  
11 getting data out even if it's not in the most  
12 perfect form with all the API's available starts  
13 the process of innovation and provides a lot of  
14 insight into how to drive it forward in the long  
15 term. So again, design for the future but don't  
16 let that hold back from the initial exposure of  
17 data to the community.

18           MR. MORROW: Clearly once the data  
19 has been vetted for privacy and security concerns  
20 and it's put out in the wild people have the  
21 tendency to use the data to tell the story they  
22 want to tell and we need to differentiate between  
23 the creative use of data to perhaps tell one side  
24 of a story as that could still be a proper use of  
25 data so differentiating between a truly improper

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2 use of data and just creatively massaging data  
3 perhaps to tell a story that might not be a very  
4 popular story we need to be careful to  
5 differentiate between those two.

6 CHAIRPERSON GARODNICK: Council  
7 member Brewer.

8 COUNCIL MEMBER BREWER: Thank you.  
9 I'm impressed that the Commissioner is still here  
10 and Hoppin, the New York State Senate gets a bad  
11 rep sometimes, I think they should just mention  
12 you and they'd all be happy.

13 The issue of Google and the MTA,  
14 how could it provide an example of what could go  
15 on in terms of what we talked about today because  
16 people are very pleased? Well, the MTA data.

17 MR. BROWN: Well, that's to me you  
18 said. I've actually not been involved with the  
19 MTA's project and Google's involvement there so I  
20 can't speak to that directly. What we have seen  
21 with other data sets is that putting them in  
22 platforms that are web accessible and friendly to  
23 consumers and the small organizations like  
24 Google's has been very energizing to the community  
25 and [crosstalk].

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2 COUNCIL MEMBER BREWER: And in  
3 places like large states like California where you  
4 mentioned in your testimony, how again does that  
5 serve as an example as to what is or isn't  
6 impossible in New York just generally.

7 MR. BROWN: I think the great  
8 example of California is that California started  
9 by putting data out 400 or so data sets and did  
10 not have API's available and so there were  
11 challenges in getting the pace of innovation  
12 going. By working with us they were able to  
13 basically simply transfer that into our platforms  
14 which already provided open API's and as such they  
15 didn't have to invest in the creation and building  
16 of those API's. We just essentially gave it to  
17 them for use and so citizens could then move much  
18 more quickly and point and click visualizations  
19 without programming without a lot of the work that  
20 would be happening. They'd have to build that out  
21 themselves so it just accelerated its innovation.

22 COUNCIL MEMBER BREWER: Okay,  
23 Andrew, is the state doing anything close to what  
24 you're doing? You're working on the Senate side  
25 legislation and so on but is the State doing

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anything to the best of your knowledge.

MR. HOPPIN: Not in a comprehensive across the board way in the executive branch. You know I sit on the statewide CIO Leadership council and we were having a lot of conversations about this and I think one of the exciting things is if New York City moves aggressively in this arena you're going to be moving in parallel with a lot of peers at other levels of government and again that's where the real upside of massive efficiency and potentially even massive cost savings can come from freeing this data because you're talking about unwinding silos here where you may have had a city department not being able to readily share data with another city department. You unwind that and inherently if you publish this data openly you're also breaking down the wall between government and on-government. But I really think breaking down the wall between local, state and federal has tremendous potential upside and it's hard to measure that until it's done, right? But it's a really timely time to be looking at this because of what I think will also happen eventually also at the state level.

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COUNCIL MEMBER BREWER: And  
congratulations on all the work that you've done  
to put together everyone but the question I have  
is, do you get in some of your discussions around  
the table and around the forums, people who state  
if I only had this data I could do this and this  
in terms of apps or is it, obviously 200 of these  
are available but are there other discussions about  
other apps do you think?

MR. BROWN: I get that in a general  
sense but I don't get a lot of that type of  
discussion around city data in particular I can  
tell you that there was overwhelming good  
experience with the Big Apps competition. I heard  
nothing but positive things, nothing but positive  
outcome and I think that was the genesis of this  
whole movement.

COUNCIL MEMBER BREWER: Thank you.

CHAIRPERSON GARODNICK: Thank you  
council member Brewer. One last question from me  
for Mr. Brown. You noted that there is potential  
delay associated with mandating APIs from Day 1.  
Obviously having them in place is a great appeal  
and a great usefulness. How concerned do you

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think we should be about that and what is your recommendation as to whether or not we should have the firmest most restrictive put it in right at the beginning. What would you say to that?

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MR. BROWN: I recommend a phased approach much like is described in the Intro 29 for data availability itself so such that there's a grace period before API requirements are in place but that those requirements are defined and make clear goals by a certain time period, one year, two years, three years, whatever makes most sense that those API's are required and available. My point is with the testimony is basically not to halt the release of data while a long drawn out process as this happens to determine a standardized API's.

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CHAIRPERSON GARODNICK: And you think the time necessary to put them in place is measured in months or year or two years as opposed to anything longer than that?

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MR. BROWN: It depends on when API's are chosen. For example, the Google fusion tables, our publishing product has open APIs and if those were adopted as the state of California

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started to do and they could be available I a matter of hours frankly.

CHAIRPERSON GARODNICK: Well, we thank you for that and we thank all of you for your testimony today and we're going to move on to our next panel so we appreciate it. The next panel includes Ben Berkowitz, Phillip Ashlock, and Liz Hodes. So come on up and join us. And I'm sorry if that's Hodes as opposed to Hodes, I have some relatives who are Hodes. Alright, are we missing? Alright, let's get right started. Ms. Hodes you can start us off and we'll see who we're missing.

LIZ HODES: My name is Liz Hodes and I work for Digital Democracy, a non-profit based in New York looking to empower marginalized community with digital technologies. The decisions made here have an impact on our schools here and overseas and I thank you for taking the time to listen.

Tomorrow's youth need to have the skills of 21<sup>st</sup> century citizens. Imagine a city where students can learn about their environment by getting data in real time in their classrooms.

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2 Students would have the knowledge of what's  
3 changing right outside their window, in their  
4 parks and on their streets. This increasing  
5 information would spark interest locally and teach  
6 them if they can make an impact on a local level  
7 they will ultimately contribute their efforts  
8 around the world to enact environmental change on  
9 a global scale. Young people would be engaged in  
10 meaningful ways with the world around them.

11 If New York City is to continue to  
12 be a competitive global center we need to be able  
13 to react and respond to our changing times to this  
14 post industrial revolution, a transition due to  
15 the development of a global community online. In  
16 schools, students are learning the skills they  
17 need in industrial societies that favors education  
18 offline. These methods of educating are becoming  
19 increasingly outdated as data becomes available by  
20 the minute and as today's youths spend more and  
21 more time being connected.

22 Youth are consuming all available  
23 information while crucial government data is still  
24 locked away. Why not harness this passion online  
25 as time spent on facebook, producing content for



1  
2 youtube and on mobiles connecting with friends for  
3 a positive engagement in the classroom, meaningful  
4 connections with the community and ultimately for  
5 effective global change. Otherwise we run the  
6 risk of their minds becoming obese with unhealthy  
7 information as their bodies would from unhealthy  
8 foods.

9 I ask you, what would you change  
10 and improve about your community? I'm sure that  
11 many of you have an answer to this question. Why  
12 not ask our kids and in doing so give them the  
13 information they need to not only answer this  
14 question but make the goals for their community a  
15 reality. Why not give them the information about  
16 where our city's best water supply is, public  
17 safety information and places to volunteer. Can  
18 increasing the prevalence of park benches decrease  
19 local crime? Can making data available about the  
20 nutritional value of our food decrease rates of  
21 obesity. By having this crucial information,  
22 youth can find answers to these questions and can  
23 be ambassadors for change in their communities.  
24 They can see what will affect real change and know  
25 whether their community can have the resources to

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2 make these changes possible. On Saturday June 5<sup>th</sup>  
3 we worked with 120 students with the Future Now  
4 program with the Department of Education. Using  
5 limited data we helped these students to see what  
6 changes they would like to see take place New York  
7 City by 2020. We have seen open data work wonders  
8 in other countries. In Thailand we saw data  
9 supported Health Care systems that are cheaper  
10 healthier and more efficient than ours. In  
11 refugee camps there are internet connections  
12 enabling young adults to come attend classes at  
13 NYU.

14 Here in New York, Digital Democracy  
15 has been creating a free and open source  
16 educational platform, Roebing, which facilitates  
17 digital literacy and technical skills.

18 We target students using mobile  
19 phones, computers and other devices to share  
20 photos, videos, maps, blog post and homework  
21 assignments. This positively impacts student's  
22 academic performance and prevents drop outs by  
23 engaging them through participatory education and  
24 enable teachers to track academic performance  
25 through quantitative analytics and qualitative

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2 data. We support this legislation. It enables us  
3 to begin implementing our cutting edge educational  
4 programming which fosters positive engagement  
5 between students, their government and community.  
6 Thank you.

7 CHAIRPERSON GARODNICK: What perfect  
8 timing. Nicely done. Go right ahead.

9 BEN BERKOWITZ: Thanks. So I'm Ben  
10 Berkowitz and I'm representing my company, which  
11 is See, Click, Fix. I'm the co-founder and CEO  
12 and I'm also representing an already open and  
13 public data set in New York if you go to  
14 [seeclickfix.com/newyork](http://seeclickfix.com/newyork) so what I will speak about  
15 is specifically I guess 311 data in New York and  
16 what our tool does, we created our tool as a way  
17 to provide open and collaborative communication  
18 with City Hall and about three years ago when I  
19 think only Gail Brewer was talking about this as  
20 far as I know and specifically you can go online  
21 you can post something like a pothole publicly.  
22 We will send alerts to City Hall, City Hall, the  
23 council, your neighbors anyone who is interested  
24 in being part of the solution. And your neighbors  
25 can come on and support your issue thereby having

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an open and collaborative way to discuss the problems in our municipal fabric and talk collectively about resolving them.

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So currently the 311 system in New York is really a one to one system where data flows from a single citizen to a single call taker and then and then I guess I don't have a full understanding of this but at the end of the month there are data sets that are put out but not in real time and not in a real way that can encourage participation.

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So what we are proposing, we support this bill obviously because the open data would be something we could display on our site but I should add a caveat that it really is only half the battle when it comes to 311. You're talking about the read side of the API and the write side is equally important and if we can't contribute our data set to 311 that we already have, I think there is a shortcoming that exists but this is definitely the first step and we want to see it happen.

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So some quick benefits I think of what you would get from open 311 data is one,

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2 empowerment. Providing that quick real time  
3 feedback would to citizens that they're issues  
4 were being responded to and seeing other citizens'  
5 issues being responded to will provide a necessary  
6 first level of engagement and a positive feedback  
7 for citizens to engage further in improving New  
8 York City and being an active citizen.

9 Efficiency, obviously crowd sourcing  
10 citizens and developers and the media to get the  
11 data to citizens is something that's really going  
12 to save costs as we get more 311 calls going on  
13 the web and off the phone lines.

14 And entrepreneurialism, obviously  
15 there are going to be other businesses like ours  
16 that can develop in New York City and can create  
17 jobs and benefit from this open data.

18 CHAIRPERSON GARODNICK: Thank you  
19 very much. That is certainly a loud signal. You  
20 can't miss it. Alright, thank you. Go ahead.

21 PHILLIP ASHLOK: Good morning,  
22 Chairperson Garodnick and thank you for having me  
23 here testify before you today. My name is Phillip  
24 Ashlok and I am the open government program  
25 manager for Open Plans, a non-profit civic

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2 technological organization here in New York City.  
3 Much of the work that I do at Open Plans directly  
4 relates to this bill in that I work with cities to  
5 establish open standards and best practices for  
6 municipal technology. One example of that is the  
7 open 311 standard that was discussed earlier that  
8 involves See, click, fix in several cities in this  
9 country and others.

10           So Intro 29 is a very important  
11 piece of legislation which I believe can have a  
12 profoundly positive effect on the city. However,  
13 rather than starting off by going into depth about  
14 what is good about Intro 29, I'd like to provide  
15 some context in which the place is built relative  
16 to precedence in New York City government current  
17 state of open data and open government practices  
18 internationally. Section 1062 of the New York  
19 City charter requires the New York City  
20 Commissioner on Public Information and  
21 Communication to publish a public data directory  
22 describing the computerized data sets maintained  
23 by city agencies.

24           This is the first public data  
25 directory published pursuant to their requirement.

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2 Publication of this first edition represents an  
3 important step towards fulfilling the goal to  
4 improving public access to information about the  
5 wide variety of computerized data maintained by  
6 the city. Information maintained by the city  
7 agencies is increasingly being stored into  
8 computers. Until now however there has never been  
9 a single source of information available to  
10 researchers, community groups, businesses, and  
11 other members of the public regarding the types of  
12 electronics data kept by city agencies much of  
13 which is required by law to be accessible to the  
14 public.

15                   The New York City Commission on  
16 Public Information and Communication is new city  
17 agency established by 1989 amendments to the New  
18 York City charter. The Commission is chaired by  
19 the President of Council and includes public  
20 members as well as representatives of the Mayor,  
21 the city council and a number of city agencies.  
22 In addition to publication of the public data  
23 directory, the Commission's responsibility  
24 includes education and outreach to assist the  
25 public to have access to city information and

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2 developing new strategies for use of new  
3 communication and technologies and improve access  
4 to and distribution of city data.

5           This public data directory  
6 represents the joint efforts of the members of the  
7 Commission and particularly the staff of the  
8 Mayor's office of Operations and the Law  
9 Department. The Commission also wishes to  
10 acknowledge the valuable assistance provided to  
11 the agencies themselves in preparing the  
12 directory. For each agency, the directory  
13 provides a brief description of the agency's  
14 mission, the names and the phone numbers of the  
15 public liaison available to assist members of the  
16 public and brief descriptions of the contents of  
17 the databases.

18           User notes contain important  
19 information on methods of access, legal  
20 restrictions, and access to certain records and  
21 other information, so I can keep reading that but  
22 that was from the introductions to New York City  
23 's first public data directory published in April  
24 of 1993. And let me reference another document  
25 dated April 30, 1993 this is from SERN [phonetic]



1 signaling the release of another data directory.  
2 This is SERN's [phonetic] main declaration of the  
3 world wide web and is essentially the web's birth  
4 certificate.  
5

6 I draw these parallels for  
7 historical context both were released in April of  
8 1993. New York City has the earliest and most  
9 comprehensive open data policy of any city or  
10 government that I'm aware of and it's written  
11 right into the city charter. But since this  
12 policy predated the birth and current ubiquity of  
13 the web, it has largely fallen into obscurity and  
14 has been treated as nearly irrelevant and the rest  
15 of this is on datanyc.org.

16 CHAIRPERSON GARODNICK: Thank you.  
17 You know we do not have copies of your testimony.  
18 Do you have copies with you?

19 MR. ASHLOK: Yeah.

20 CHAIRPERSON GARODNICK: If you could  
21 provide those the Sergeant we'll pass those around  
22 and we'll have questions for you even before you  
23 go anywhere but let me start with one for you Mr.  
24 Ashlok. On the subject of timing and the need for  
25 agency to do and the patience that the

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2 Commissioner encouraged us to have today. Do you  
3 have any comment on that as to whether the time  
4 lines set forth in the legislation are reasonable  
5 or whether we should be waiting for a more  
6 deliberative agency consultation process. And of  
7 course this is a question that's open to any of  
8 you.

9 MR. ASHLOK: Let me first start of  
10 with the reason I began my testimony with reciting  
11 the 1993 public data directory because that's 17  
12 years old and it hasn't been maintained for 17  
13 years. It was only published once as far as I'm  
14 aware. So I think 17 years is probably a pretty  
15 good amount of time to get at least the directory  
16 of data sets that the public should be able to  
17 access.

18 CHAIRPERSON GARODNICK: Okay. So  
19 that's for a directory and I guess really what I  
20 want to understand from you is putting the data  
21 right out there. The bill says some categories  
22 must go up within thirty days, other categories  
23 have to go up by January 2012, others by 2013. 17  
24 years obviously is well beyond the contemplation  
25 of this bill and yes we have waited too long and

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we are going to move much more quickly here so my question for you is [crosstalk] specifically on the actual data sets.

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MR. ASHLOK: I don't see any reason why I think it's an additional three years for all Legacy data. I don't see any reason why that should be, I think that's completely feasible in fact if I think there's cost savings in doing so it involves getting rid of Legacy systems which often cause governments undue or extreme expenses where they wouldn't otherwise.

CHAIRPERSON GARODNICK: Anybody else want to address that one? Go ahead.

MR. BERKOWITZ: So I spoke a little bit with DOITT about the 311 systems specifically and I think there are some hurdles in New York that other cities don't have, one being that there are more Legacy systems that 311 is or should be interacting with than in most cities as opposed to having one work order system there may be many. And that does provide some complication but that being said we've brought around CRM's online integrated spitting out open data and collecting open data in under a month. I think you should

1  
2 set aggressive deadlines and it's time for this to  
3 happen.

4           The other pieces that as Phillip  
5 just mentioned in regards to some of the data sets  
6 like 311, there's already a standard that's being  
7 worked on by other municipalities. We're  
8 connected to San Francisco and D.C. and so by  
9 being just a few steps behind you can really use  
10 some of the resources. We're obviously here to  
11 help and I think, set aggressive timelines and  
12 we'll help you get moving.

13           CHAIRPERSON GARODNICK: Mr.  
14 Berkowitz, let's go back to one of your comments  
15 in your testimony. I just want to make sure you  
16 have a chance to put a little more meat on the  
17 bone here. You talked about read side versus  
18 write side and what's being contemplated is only  
19 half the value. Can you just say a little more  
20 about what that means?

21           MR. BERKOWITZ: Sure, well I think  
22 if look at democracy it's not just about listening  
23 it's also speaking up and participating. And  
24 specifically what read looks like is a list of the  
25 potholes. What write looks like is you

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2 communicating that there are potholes and yeah you  
3 concurrently you can do that through the phone by  
4 dialing 311, by going on the web, or by going to  
5 the iphone app. But if the city allows for  
6 developers to build alternatives that can create  
7 and contribute to that data set you will find that  
8 you will reach a lot more people.

9 Concrete example would be Washington  
10 D.C. has done this where you can now report  
11 potholes through other applications including  
12 ours, See, click, fix is actually embedded into  
13 the post as a place where you can report potholes.  
14 That to me seems like a great way to reach as many  
15 people on the web in Washington D.C. as possible.  
16 It exists, it's not a fairy tale. It's something  
17 that could be done right here.

18 CHAIRPERSON GARODNICK: Council  
19 member Brewer.

20 COUNCIL MEMBER BREWER: Very quickly  
21 when you say real time for your students what does  
22 that mean to you and improving the education for  
23 the students and how would this legislation help  
24 in that sense?

25 MS. HODES: Well I think that if the

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2 data is going to be up as quickly as we'd like it  
3 to be going up the students can access it in their  
4 classrooms online and they can see by the week, by  
5 the month what's going on in their communities  
6 what's changing, what funding their communities  
7 are getting, are park benches going in, are trees  
8 being planted, and they can be involved as closely  
9 as possible or as quickly as possible with the  
10 data in what they want to see happening with  
11 communities and localizing that with their local  
12 government.

13 COUNCIL MEMBER BREWER: Okay, Copec,  
14 I feel like when I die somebody's going to say  
15 Gail died to try to get COPEC going because I was  
16 there in '89, I wrote that report, I've been part  
17 of the discussion for, me and Jean Wistonoff, so  
18 you just mentioned the word COPEC I get epileptic  
19 but it is a law every single year, COPEC is  
20 supposed to publish a book I don't remember if  
21 it's in the law but there's a certain timeframe  
22 and that's not being followed so it's an issue we  
23 will be addressing. Okay.

24 CHAIRPERSON GARODNICK: Thank you  
25 very much to all of you and we're now going to

1  
2 move on to our next panel which will include  
3 Rachel Faust from Citizens Union, Sam Brookfield,  
4 and Tim Hofer, Manhattan Institute. And if you  
5 have copies of your testimony please provide them  
6 to the Sergeant and he'll have them in front of  
7 us. You want to go right ahead and get started?

8 RACHEL FAUST: Sure. Good morning,  
9 Chair Garodnick. My name is Rachel Faust and I'm  
10 the Policy and Research Manager for Citizens Union  
11 of the City of New York, an independent non-  
12 partisan civic organization of New Yorkers that  
13 promote good government to advance political  
14 reform in the state. We thank you for holding the  
15 hearing and thank Council member Brewer for  
16 continued leadership for increasing public's  
17 access to government information through  
18 technology. We continue to believe that it's  
19 critically important for the city to take major  
20 steps that are outlined in this legislation and as  
21 we testified before to this committee we do  
22 believe similar to others tonight, not tonight  
23 this morning that posting this information online  
24 proactively can help to eliminate some of the  
25 costs associated with FOIA so I'd just like to put

1  
2 that out there. We've testified in favor of the  
3 previous version of the bill so I'd just like to  
4 outline some of the changes and what our thoughts  
5 are around those.

6           We continue to support this bill as  
7 it creates a single data portal but I'd just like  
8 to note that the previous legislation included  
9 publications other than data like reports, files,  
10 accounts and records. And I understand this could  
11 be quite a lot of information but we think  
12 ultimately there could be a more unified approach  
13 to the city to releasing this information on a  
14 single site. I think one thing that we're  
15 interested in is publications that would include  
16 data like annual reports of agencies that might be  
17 cooked or processed if you will that could also be  
18 included in this to provide similar types of  
19 information.

20           We also support the bill's effort to  
21 have web syndication technology because we think  
22 it's important for the public to have up to date  
23 information of what's going on. It's up to them  
24 to be able to weigh in on the decisions that are  
25 being made while they are happening and not after



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2 the fact.

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And regarding the standards, technical standards policy in here and the development of them, I think one thing we'd like to add that we'd recommend being added to this bill is that there be an opportunity for the public to comment on the standards similar to regulations that are developed in the city. There should be a public comment period for that.

Regarding the agency compliance plan, the start date of this is July 5<sup>th</sup>. I think that's a little bit too soon. That's the only timeline in the bill and I think Citizen's Union finds problematic and I'm sure you do as well is introduced earlier so just a technical change. We are pleased the bill's been changed to requiring the agencies to detail the reasons why records are classified in particular categories and I think this will give information both to the council and to the Mayor about technical limitations but also give the public more ease to know that the information is not just being classified in those categories to prevent the release of it. I think that's an important change in the bill.

1  
2 We also, we'd like to recommend that  
3 DOITT publish an annual report on the  
4 implementation of this website and we think that  
5 possibly there could be a public hearing on the  
6 implementation of the website as well. And that's  
7 most of my major points.

8 CHAIRPERSON GARODNICK: Great, thank  
9 you very much. I will note that you are correct  
10 about the dates in the bill they have been there  
11 for some time. I don't think anyone anticipates  
12 requiring DOITT to do it in two weeks but we got  
13 you. Thank you very much. Go ahead.

14 SAM BROOKFIELD: Good morning Chair  
15 Garodnick and Council member Brewer. Thank you  
16 for the opportunity to testify this morning. My  
17 name is Sam Brookfield and I work in the  
18 technology department at ITAC, New York City  
19 Industrial Technology Assistance Corporation.  
20 We're an economic development corporation with 22  
21 years experience helping New York City small  
22 businesses grow and create high value jobs. We're  
23 funded by New York State Foundation for Science  
24 Technology and Innovation as the designated  
25 regional technology development center for the New

1  
2 York City region. It's also a manufacturing  
3 extension partnership center under a nation wide  
4 national institute of standards and technology  
5 program. We're one of three centers in the state  
6 funded to assist small research and development  
7 firms apply for small business and innovation  
8 research program. Funding from 11 federal  
9 agencies over the past five years, ITAC clients  
10 have reported over a billion dollars in economic  
11 impact and 4,500 jobs created or retained.

12 We also run sponsored programs for  
13 city companies such as city council funded Move  
14 Smart Stay Lean Grow Fast program and NYSERDA  
15 funded NYC energy tech program. And on behalf of  
16 my colleagues in the tech department, Colleen  
17 Gibney and Franklin Madison as well as the  
18 President of ITAC, Sara Garrison, I'd like to  
19 thank the city council for your consistent and  
20 generous support of the Move Smart Stay Lean Grow  
21 Fast program.

22 ITAC supports the community efforts  
23 to make city data openly accessible to businesses  
24 and individuals alike. We work with numerous  
25 technological companies that would greatly benefit

1  
2 from access to data. We see an excellent  
3 opportunity for three sectors in particular. The  
4 first deals with education which Ms. Hodes just  
5 spoke about. So I will not reiterate that point.

6 The second is dealing with software  
7 development which several people have spoken on  
8 also already. To that point I'll just say access  
9 to city data would provide software developers an  
10 affordable path to bring top notch products to the  
11 marketplace. This could have a positive impact on  
12 small businesses and innovation research grant  
13 applications as well as meaningful data sets and  
14 highly desirable to create competitive proposals.  
15 As ITAC is one of three NYSTAR funded SPI regional  
16 specialist centers we are committed to raise SPI  
17 winners coming from New York City.

18 The third deals with supply chain  
19 transparency. Opening up city data to public  
20 access would allow local manufacturing and  
21 technology firms to see what the city is buying  
22 and from whom. In other words it would make the  
23 supply chain more transparent. This information  
24 would greatly beneficial to such firms because it  
25 would provide essentially free market research and

1  
2 data to companies to which this could be  
3 prohibitive.

4           Such an understanding of the  
5 marketplace would allow firms to better prepare  
6 themselves for future growth and expansion and  
7 would be an especially significant development for  
8 young start up companies that may not have the  
9 financial resources to conduct market research on  
10 their own. We'd like to see the city work with  
11 the New York Public Library's Science industry and  
12 Business Library as well as local universities to  
13 make access and comprehension of this data as  
14 simple as possible. Thank you for the opportunity  
15 to testify before the council today.

16           CHAIRPERSON GARODNICK: Thank you.  
17 Please.

18           TIM HOFER: Thank you for inviting  
19 me to testify. My name is Tim Hofer. I'm the  
20 Director of Operations at the Manhattan  
21 Institute's Empire Center for New York State  
22 policy. The Manhattan Institute is non-partisan  
23 not for profit think tank and the Empire center is  
24 their Albany based project that focuses on New  
25 York State policy.

1  
2 Promoting better transparency and  
3 accountability in one of the Empire Center's major  
4 ongoing priorities. We take a strong focus on  
5 ensuring public access to government records and  
6 so I would like to begin by commending the  
7 Chairman and for your very important work on that  
8 accessibility. About two years ago we launched  
9 our own open government project. The website  
10 known as Seethruny.net, the site gives the public  
11 unrestricted access to millions of pieces of  
12 public information including searchable databases  
13 of state and municipal employee salaries and  
14 pensions, collective bargaining agreements, state  
15 legislative and expenditure data, expenditures and  
16 a benchmarking feature to compare local government  
17 spending. To gather this information we filed  
18 over 250 freedom of information law requests  
19 during the two year process, two year period.

20 During the process we heard many  
21 different explanations or excused for failure to  
22 comply fully or on a timely basis with the State  
23 FOIA law. Some high profile government entities  
24 including the city of New York often complain to  
25 us that agency resources are strained by the

1  
2 necessity of replying to numerous FOIA requests by  
3 the public and the news media. Today's  
4 technologies, specifically the internet presents a  
5 solution to that problem.

6 We believe that all public  
7 information should be more actively disclosed on  
8 the internet starting with expenditure, budget and  
9 payroll records that will give taxpayers a clearer  
10 view of how the bulk of their tax dollars are  
11 being spent. This would also free agencies of the  
12 time consuming burden of processing multiple FOIA  
13 request for different slices of the same material.  
14 It's a win win for citizens and for government  
15 alike.

16 A few agencies are already pursuing  
17 this strategy. Last year for example as we  
18 already hear the State Senate are posting and  
19 updating its payroll every two weeks and in a  
20 format that's accessible even to those who are not  
21 computer savvy which we think is very important.  
22 They also began posting their biannual expenditure  
23 reports in electronic form. Both of these things  
24 are things that we post on seethruny so as you can  
25 imagine we're a minimum of less than three FOIA

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requests from the Senate every year.

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We believe the Senate majority took the initiative in this case and as Andrew said in a short period of time without significant expenditure they were able to develop, implement and format a simple yet effective means to make the data available.

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While we commend the bill we have five suggestions which I am probably not going to be able to get to but we believe that you should standardize all public available data in the most simple commonly used electronic formats. We think we should post the records for downloading in a simple webpage link probably to the existing agencies websites and not to one master website. We'd like you to require the immediate posting of all newly generated public records in the same simple formats as a matter of routine. We believe that the updated records for financial transactions, contracts and payrolls should be done as soon as possible.

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CHAIRPERSON GARODNICK: That's okay. I'll just put it to you in the form of a question. What are your other recommendations?



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MR. HOFER: I just had one more.

3

The other was that non-electronic records should be posted as they are FOIAed starting immediately to take the burden off of posting some of those records that we believe would create the bigger burden on the agencies.

7

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CHAIRPERSON GARODNICK: These five

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suggestions you believe are not already included in this bill?

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11

MR. HOFER: To some extent we think

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they are and some they are not, basically the

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general overall is that we think it is overly

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complicated, that posting the data from the agency

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to an agency website will prevent you from having

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to build a more complicated and timely and

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consuming data warehouse.

18

CHAIRPERSON GARODNICK: On the FOIA

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question, your point was that you think that if a

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FOIA request is made and if it is a non-electronic

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record that it should be posted online as it is

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delivered to the FOIA requestor, is that right?

23

MR. HOFER: Right. Currently as it

24

stands if you request, the agency that is FOIAed

25

has to deliver you whatever you are FOIAing in the

1  
2 format that they have so if it's not going to an  
3 electronic record you get a photocopy. They are  
4 not required to scan it or do anything extra. So  
5 the theory is that if you already have to handle  
6 this document instead of photocopying it putting  
7 it in an envelope and mailing it, why not scan it  
8 to your database.

9 CHAIRPERSON GARODNICK: Okay,  
10 council member Brewer?

11 COUNCIL MEMBER BREWER: For ITAC,  
12 please give Franklin our best amongst others, when  
13 you mentioned the supply chain transparency, that  
14 stuck out as incredibly important. Databases  
15 would allow local manufacturing and technology  
16 firms to see what the city is buying and from  
17 whom. How do you get that information now or is  
18 that not accessible? The reason that I ask is  
19 that's a constant question for not just the  
20 committees but people trying to the research and  
21 calling us and so on. How does that information,  
22 if at all get transpired to your companies now and  
23 I know you work really hard to grow these  
24 companies.

25 MR. BROOKFIELD: As of now,

1  
2 companies do their own market research, they try I  
3 mean it's very difficult especially for the small  
4 start up ones and other than that we work with  
5 local manufacturing residents. We have a  
6 manufacturing residence that helps facilitate that  
7 connecting businesses with suppliers and supply  
8 chains.

9 COUNCIL MEMBER BREWER: So what  
10 you're saying is that even for the, we think of as  
11 the obvious savings for the economic development  
12 but this would be an extra one where the market  
13 research could be something that could be done  
14 much more easily.

15 MR. BROOKFIELD: That's correct.

16 CHAIRPERSON GARODNICK: Do any of  
17 you want to weigh in on the question about the  
18 timeline by which we should be putting this all of  
19 this into place. Obviously there are some  
20 technical constraints, the bill itself anticipates  
21 different categories of data some of which might  
22 need to be transferred to the appropriate format  
23 some of which are already in that format. Do you  
24 have any comment or testimony on the speed or the  
25 timeframe that's either contemplated in the bill

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or any of your own? Go ahead.

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MS. FAUST: I just have one small thing that I didn't get to in my testimony and that is that for the technical standards manual the bill has DOITT publishing it and at the same time having the agencies do their own compliance plan. I would think it would makes sense to give agencies a little more time after reviewing the technical standard policy to develop their compliance plan so I think there could be a little bit of a buffer there.

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And as far as the roll out period for the different years I think it's important to set dates for it given that you know as was mentioned earlier we have some pieces in the law right now regarding COPEC and accessibility that aren't being met so a date is an important way to track and make sure things are happening but I don't think we have a particular sense of what's appropriate for city agencies giving technical concerns but I think the idea of it, the concept of it is sensible.

24

25

CHAIRPERSON GARODNICK: So you would agree with the Commissioner that give the

1  
2 technical standards, give them a chance to weigh  
3 in, give the public a chance to weigh in on the  
4 technical standards as well but set firm time  
5 lines whatever they are and perhaps may not be  
6 able to be resolved at this hearing.

7 MS. FAUST: Yes, I do think that  
8 sums up our sense of what would be appropriate for  
9 the bill.

10 CHAIRPERSON GARODNICK: Thank you.  
11 Anybody else? Go ahead.

12 MR. HOFER: Yeah, I think from our  
13 perspective we tend to look at records as  
14 electronic and non-electronic and for whatever's  
15 available that electronic at this point, I can't  
16 imagine why each individual agency wouldn't be  
17 able to post it in some format within a twelve  
18 month period. And by some format I think we're  
19 talking about more publicly acceptable things like  
20 CSV and text files and I'd hate to see you getting  
21 caught up in creating this unified system where  
22 all city data is in because that's where I think  
23 it becomes burdensome and time consuming.

24 CHAIRPERSON GARODNICK: Thank you  
25 very much and with that we appreciate your

1  
2 testimony. We're going to call up our next panel  
3 which will include Ray Garcia, Andrew Brust, and  
4 Todd Stavish. Gentlemen come on up and we will  
5 get you started. Thank you very much, welcome.  
6 You can go right ahead. Please introduce  
7 yourself.

8                   ANDREW BRUST: Very good. Thank  
9 you. My name is Andrew Brust and I help run a  
10 consulting firm, 26 New York, here in Manhattan.  
11 I'm also a technology columnist and blogger and  
12 serve on the New York Technology's council  
13 advisory board. As I've explained before in  
14 previous testimony to this committee, I'm a life  
15 long New Yorker and began my IT career in the  
16 employ of the government of the city of New York.  
17 And I'm going to excerpt myself so I can fit in  
18 the time limit. I've testified to this committee  
19 before voicing my support for open government  
20 data. I'll reiterate today that I feel the  
21 benefits of publishing data from all city agencies  
22 are huge.

23                   One thing I'll say is the prospect  
24 of opening each data stream in each agency might  
25 seem daunting to city IT professionals. I would

1  
2 encourage DOITT and the individual agencies to  
3 conceive of the requirement with the right mind  
4 set. Data feeds are just software services and  
5 good software is built on the premise of designing  
6 a service layer at the foundation. So rather than  
7 taking the approach of building closed systems and  
8 opening them up the agencies should premise the  
9 architecture of their systems on building the  
10 services and feeds first and then layering the  
11 application logic and functionality on top of  
12 them. With this approach open data would become  
13 byproduct of normal software development rather  
14 than a burdensome discreet step. Ultimately the  
15 thing to remember is that data is raw material  
16 which the city government can refine only to a  
17 certain extent. Making the raw material available  
18 to the public allows a far greater amount of  
19 refinement of value to be added to that data than  
20 can be had by keeping it sequestered within the  
21 agency that has collected it.

22 The city can directly benefit from  
23 its own open data and that's because integrations  
24 of systems between agencies will be much better  
25 facilitated through a normal data sharing regime

1  
2 than customized point to point data interchange  
3 that will enable streamlined construction of  
4 numerous systems. For example the Mayor's  
5 management report should be much easier to produce  
6 and the notion of a general inquiry system across  
7 all agencies for 311 becomes compellingly  
8 feasible.

9                   There are also nice possibilities  
10 for an enterprising data warehouse, scorecards and  
11 so forth. I'm going to skip ahead with about 30  
12 seconds left. Just to make you aware of something  
13 from of all people, Microsoft. They've created a  
14 framework called the open government data  
15 initiative and it was actually built by the  
16 organization that works with developers  
17 specifically in the U.S. public sector and  
18 federal, state, local government.

19                   It's already carrying data from the  
20 Bureau of Labor Statistics and other agencies. It  
21 allows for download in CSV, excel and KML formats  
22 and it's also Section 508 compliant. So look into  
23 that and I'd be happy to answer other questions  
24 when the other testimony's done. Thank you.

25                   TODD STAVISH: Hi, my name is Todd



1  
2 Stavish, I represent a company named Socrata, I'd  
3 like to thank the council for letting me speak  
4 today. Just a few key points of my testimony, we  
5 definitely agree with disseminating public data.  
6 It's the right thing to do. Doing so hold the  
7 government accountable, improve efficiency and  
8 reduce costs and ultimately stimulates economic  
9 growth as some of the other testimony has shown.

10 There's no need to build an open  
11 data solution from scratch and in our mind Socrata  
12 offers a purpose built open data platform  
13 empowering governments and other organizations  
14 large and small to share their data in the widest  
15 array of data consuming audiences.

16 We've proven that for major cities  
17 like Seattle, Chicago, as well as some federal  
18 agencies as well as some states and counties.  
19 Socrata delivers a configurable, customizable  
20 platform as a cloud based software as a solution.  
21 We are a market drive service provider and each  
22 organization invests a fraction of the cost to  
23 deploy a platform that represents that particular  
24 area of the government.

25 Organizations benefit from this

1  
2 evolving platform as a monthly service  
3 subscription and our plans range from hundreds to  
4 thousands of dollars, definitely much less than  
5 some of the projections and costs that some city  
6 governments have published. And that's basically  
7 it. Thank you.

8 CHAIRPERSON GARODNICK: Start you  
9 fresh, don't worry. Go ahead. The button on the  
10 microphone. Perfect.

11 RAY GARCIA: Thank you for having  
12 this session today and allowing us to speak to  
13 these issues. My name is Ray Garcia. I'm the  
14 Executive Advisor to the Field Center of Executive  
15 Entrepreneurship at Baruch College so I have an  
16 interest in the entrepreneurial side of this and  
17 what it can do to enable developers to access this  
18 information and provide for economic development  
19 in New York so I'm just going to get to the  
20 recommendations, the justifications and rationale  
21 for it is in the testimony and I won't go into the  
22 detail of that. So the first is that I suggest to  
23 the city council to consider mandating a vendor  
24 neutral standard for all documents including  
25 spreadsheets, presentations, graphics, video,

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sound, and all forms of electronic media. This is something that countries have done in response to in reaction to proprietary formats if the city were to adopt it to make it much easier to put that information online and make it searchable and to allow for processing. Second thing is to adopt an open standard for data such as the resource description format schema which expresses an ontology for data which makes it useful for information processing.

Data.gov is a good example right there on the first page, they say the format that they've adopted is a very good example of what can be done with the data. I think that New York City shouldn't reinvent this stuff they should just look at other examples and maybe consider mimicking them.

Third point is to mandate all government agencies to provide interop loads between their systems following the standards. This is a point that other people have made. Speaking I think while the emphasis is to make the data accessible to the public if the data was accessible between the agencies then as a

1  
2 byproduct would be accessible to the public it  
3 makes sense that should be part of the focus.

4 Fourth point is to require all  
5 software vendors providing solutions to New York  
6 City to support an open data software format  
7 standard and open source. I won't go into to this  
8 too much but I don't think you can separate open  
9 data from open source. I think these two are one  
10 and the same. This hasn't been, I know this is  
11 not the focus of this particular session but I  
12 suggest that you consider it for future adoption  
13 the concept of how does a software, an open  
14 software interface and why is it important for  
15 open data.

16 The last point is to set up a  
17 registry of people accessing and using the  
18 documents and data sets so the city can easily and  
19 automatically communicate when updates are  
20 available as well provide a directory for citizens  
21 and businesses to find providers who have enhanced  
22 the data. Thank you.

23 CHAIRPERSON GARODNICK: Thank you  
24 very much. I am going to go back to Mr. Brust for  
25 one moment because I think you were just finishing

1  
2 up a thought about the Microsoft data systems  
3 software. I'd like you just to finish your  
4 thought on that so we could just understand it.

5 MR. BRUST: Sure. Again, it wasn't  
6 built by a product team in Redmond it was actually  
7 built by the developer group that works with U.S.  
8 public sector. It's section 508 compliant and it  
9 works with an open standard believe it or not,  
10 even though it's from Microsoft called OData. The  
11 data's published as XML but it's fully queriable,  
12 both readable and writable so the discussion you  
13 were having before about the read side and the  
14 write side that all comes with it and what you get  
15 is both the machinery of all data format and the  
16 user interface that is section 508 compliant.

17 It's a starter kit so it's not  
18 something you simply deploy as is, it's actually  
19 open source as .net open source that then can be  
20 modified and implemented as you see fit.

21 CHAIRPERSON GARODNICK: Council  
22 member Brewer.

23 COUNCIL MEMBER BREWER: Mr. Garcia.  
24 My question is I know your incubator program well  
25 and how now do some of your companies or the ones

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2 that you're incubating manage to use data? What  
3 are they looking for? What would be helpful,  
4 etc.? You listed some of the ways it should be  
5 conceived but I just want to know what goes on  
6 now.

7

MR. GARCIA: The data's accessed in  
8 whatever format's provided and then the developers  
9 struggle with trying to understand exactly what  
10 that data means and then matching that up with  
11 proprietary data that they receive. The more that  
12 the data is provided in a format that is similar  
13 and the more about information that is the data so  
14 it's not just the data that's the data about the  
15 data or the information about the data. The meta  
16 data is as important as the data itself so the  
17 more that is provided the easier it is for  
18 [crosstalk]-

19

COUNCIL MEMBER BREWER: Because  
20 they have to understand where it's coming from and  
21 the source and so on.

22

MR. GARCIA: Right.

23

COUNCIL MEMBER BREWER: In order to  
24 do the work that they are doing.

25

MR. GARCIA: Sure the data

1  
2 represents the context in which it came to being  
3 and without that context we can't carry forward  
4 the semantics of what it means is very difficult  
5 to access and infer without a body of knowledge  
6 and without then going back to the source. It's  
7 good that it's a start for the city. And all the  
8 people are advocating this, to put text and throw  
9 up documents and throw up data but frankly I think  
10 the city's going to throw up an enormous amount of  
11 data that's not going to be useful to  
12 entrepreneurs unless they can make sense of it.  
13 Alright, so it's important that the formats be  
14 self describing or the data about the data or the  
15 information about the data or an ontology more  
16 accurately is provided so that there's some sense  
17 that can be made.

18 COUNCIL MEMBER BREWER: That's why  
19 it's helpful to hear this because I think  
20 different people have different uses from the  
21 entrepreneur makes sense as we heard from  
22 testimonial earlier to get it up there no matter  
23 what. So it's good to hear both sides. Thank  
24 you.

25 CHAIRPERSON GARODNICK: And before

1  
2 we left you guys I just want to note to a point  
3 made by Mr. Garcia. The bill also does require  
4 to be in a non-proprietary format, the readability  
5 so I just want to make that point. Well, thank  
6 you very much to all of you and now we'll call up  
7 Richard Stanton, Diana Vitetti and David Weber.  
8 Welcome to all of you. Thank you. Sir, would you  
9 like to get started since you're settled already?

10 RICHARD STANTON: Sure, that will  
11 be fine. My name is Richard Stanton and I'm the  
12 CEO of Bintro. We're an aggregator of classifieds  
13 and we rely heavily on access to publicly  
14 available data. I reviewed the pending  
15 legislation and I am going to make the assumption  
16 it will soon be locked in some shape or form.

17 As we sit here today seven nations  
18 and eight states and eight U.S. cities have  
19 already adopted open data legislation. There are  
20 currently over 270,000 federal data sets available  
21 from just a start of four one year ago. There are  
22 over 250 applications using these data sets and  
23 this is just the beginning.

24 Some examples include an  
25 application that shows the amount of aid given to



1  
2 each country by the U.S. including detailed facts  
3 and news related to that country and the aid given  
4 to it. An app to see the adoption of broadband in  
5 the United States and things as innocuous as  
6 publicly available listings of who is visiting the  
7 White House and whom they're visiting. These apps  
8 I just mentioned were all built at RPI in Troy,  
9 NY. Just an example of what's popping up with  
10 these publicly available data sets.

11 The web has gone through an  
12 incredibly evolutionary process over the past 15  
13 years and right now we seem to be in the open data  
14 stage. There's an immense appetite to take data  
15 especially in semantic form and turn it into  
16 valuable applications that range from consumer  
17 driven applications and also those that benefit  
18 the greater good of our society.

19 To me, data is beautiful. I liken  
20 it to a child that needs to be raised properly  
21 with love and good guidance with and without  
22 structure, to be socialized with context and to  
23 grow to provide back even more to the next  
24 generation.

25 Data can lead us to a cure for

1  
2 cancer by way of the NIH's ontology. It can help  
3 us to find a lost child, Amber Alert data which is  
4 publicly available and can hold our leaders  
5 accountable for how our tax dollars are spent,  
6 Public Funds Research. We are all products of  
7 social construction and data is no different. It  
8 needs time and attention, it needs to play nice  
9 with others, and needs to explore relationships in  
10 order to grow so it can live on its own. Data  
11 like a child can bring joy, make you laugh but can  
12 also make you agonize as well. Simply put, to me,  
13 data is organic and we are just in the infant  
14 stages.

15           To most in this room, raw data is  
16 valuable data. And as a community of  
17 technologists we would be willing to raise the  
18 data for this city as we go forward.

19           On a more practical level the  
20 transparency of democratized data is an incredible  
21 leap forward for local governments and will bring  
22 New York City into the center of what will be a  
23 rapid growth movement over the course of this  
24 decade. An example of this is making available  
25 all government job openings and out placement

1  
2 services for all laid off government workers. We  
3 can also make available public space that the city  
4 is no longer using because of the downsizing of  
5 the government. This could be used by start ups  
6 and entrepreneurs just if they knew about the  
7 availability.

8 From transportation to public  
9 safety New York City will see a reawakening from  
10 its release of data. As I mentioned we should not  
11 underestimate the societal importance of raising a  
12 child well and the same can be said for data.

13 CHAIRPERSON GARDONICK: Thank you  
14 very much.

15 RICHARD STANTON: Thank you.

16 CHAIRPERSON GARDONICK: Go ahead.  
17 Hit that button one more time and you'll be all  
18 set.

19 DAVID WEBER: My name is David  
20 Weber, I'm senior member of the ICM, member of the  
21 OASIS XML Public Standards Organization, and XML  
22 evangelist and a long term implementer of sharing  
23 solutions for government applications.

24 There's basically two types of data  
25 that we're considering here, the structured and

1  
2 unstructured data. People are very used to  
3 unstructured data that they see on web pages  
4 constantly. The problem with that is that it's  
5 difficult for search engines to be able to harvest  
6 and link hence harder for people to find  
7 consistently.

8           The alternative is structured data  
9 which is used to publish data sets which is freely  
10 accessible via the data mine for example. But  
11 then not all of that data is created equally as  
12 the previous speaker was eluding to. Without a  
13 vocabulary, lexicon and approach you end up with a  
14 lot of noise in the system that actually over time  
15 inhibits access to the data as the mine grows.

16           So future proofing your data is  
17 very and as we know technology moves extremely  
18 rapidly so it's very difficult to pick particular  
19 flavors of standards only to find that then those  
20 are actually a problem later down the road.

21           So this is a paradox. How do we do  
22 data right and standardize how it is done on the  
23 one hand and what we don't want to be is  
24 prescriptive so that it blocks out new innovations  
25 and new technology as we move forward. And then

1  
2 added to that is the risk of vendor lock in. We  
3 all know about that how selecting a limited set of  
4 providers that ultimately develop special software  
5 that you need to access data provides inhibitors  
6 to how you can get everything so using open public  
7 standards and open friendly source technology is  
8 therefore key so an earlier speaker talked about  
9 that.

10 So rather than adopting open vendor  
11 API which initially may be alluring you have to be  
12 very careful then that's these are not then the  
13 sole sources and that people have direct ways of  
14 getting the data if they need to. And notice that  
15 API's can also harvest data and another speaker  
16 mentioned this so you can have people register  
17 what information they're interested in but you can  
18 also see who is requesting your data.

19 So there's a lot of big challenges  
20 here. I want to mention the NIEM initiative, the  
21 National Information Exchange Model, should look  
22 into that and how's that's gone about providing a  
23 common platform for federal government to share  
24 information and similarly OASIS worked with the  
25 state of California on election record reporting.

1  
2 And this had a lot of interesting aspects that  
3 people just don't see when they start sharing  
4 information. Who's the authoritative source? Who  
5 has access to it? And when and how?

6 CHAIRPERSON GARDONICK: Thank you.

7 DIANA VITETTI: Hi, good afternoon.  
8 My name is Diana Vitetti, associate director for  
9 Common Cause New York. Common Cause New York is a  
10 non-partisan advocacy organization that fights for  
11 increased transparency and honest and accountable  
12 government. Thank you for the opportunity  
13 presented here today to allow us to speak about  
14 how government transparency can be expanded  
15 through the creative use of developing  
16 technologies.

17 Many local governments nationwide  
18 are figuring out how to use the internet to make  
19 government data more accessible. The goal is to  
20 utilize the technological power and usefulness of  
21 websites and mobile applications and even perhaps  
22 format change of how citizen's think about their  
23 city and its government.

24 Open data models lend itself to  
25 being a more inclusive and more transparent

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government, cornerstones of our democracy.

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Initiative number 29 before us today would further the slated goals of local law 11 which was first introduced by former Chair Brewer in 2003 to position New York City as the leader in the nation to using technologies to improve the efficiency and accessibility of municipal government. The provisions of this bill that would make data sets publicly available through linkage with a city web portal in a manner that is easily accessible promotes the public interest by allowing data sets to be meaningfully reviewed and utilized by the constituencies.

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When I was walking into this room I noticed that most people here actually had out either an iPhone or BlackBerry. I've used one as well so how great would that be if we could be able to harness all of that into looking right now at different data sets and actually be focused on interacting with our city governments.

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The provision that all public records be made available in the raw and unprocessed form is the right step in making sure that the integrity of the data sets remain intact

1  
2 and there is no perception that data has been  
3 aggregated or compiled in any subjective manner.

4           The intention of this bill is that  
5 all public records shall be updated as often as  
6 necessary to preserve the integrity and usefulness  
7 of the record. It also helps to maintain the  
8 continuous flow of open data to the public and  
9 creates a paradigm for best practices for city  
10 agency reporting. Too often data sets are  
11 outdated, they are not updated in real time,  
12 creating obstacles for those who are looking for  
13 information that will help better serve their  
14 communities.

15           Whether it is information regarding  
16 property sales, department and building issue  
17 permits, or as an organization such as ours that  
18 looks to analyze to compare data results and to  
19 look at performance metrics of different city  
20 agencies.

21           However some of the recommendations  
22 that we have for the committee today, I think one  
23 or two are already reference that we would like  
24 the committee to consider amending the proposal to  
25 require the record policy and technical standards



1  
2 drafted to specifically address mechanisms for  
3 public input and oversight regarding any  
4 shortcomings of the data available. This would  
5 compliment the affirmation provisions already in  
6 the bill that seeks to maintain the data's  
7 integrity.

8 This could be done relatively  
9 easily such as simple comment features that you  
10 find on blogs or online submissions forms are  
11 simple ways to allow the public to provide their  
12 thoughts or concerns to the relevant agencies.  
13 Thank you for your time.

14 CHAIRPERSON GARODNICK: Thank you.  
15 Let me just follow up on that last point since you  
16 didn't quite get to finish it. You want to add  
17 some sort of a opportunity for the public to  
18 comment on the quality of the information that's  
19 being put out there. Is that correct?

20 MS. VITETTI: Correct. It would  
21 also, I mean that I think that if the public does  
22 see discrepancies in datas or if there is reason  
23 to believe that certain information is put out  
24 there should be some kind of public comment  
25 feature that allows a more thorough interaction of

1  
2 the public with the city agencies. I mean if the  
3 reason behind this and we all know is to not only  
4 increase transparency and government  
5 accountability but also decrease requests on FOIA,  
6 a good way of doing this would just be having and  
7 interactive feature right there that allows  
8 constituencies to register their complaints or  
9 concerns and get feedback right away.

10 CHAIRPERSON GARODNICK: Have you  
11 seen the public comment element on data mine that  
12 exists and the Commissioner testified about  
13 earlier today.

14 MS. VITETTI: No, I have not.

15 CHAIRPERSON GARODNICK: Okay. I  
16 was just going to see whether you had any comment  
17 on whether that satisfied any of these concerns or  
18 whether you think that we should be going further  
19 but we'll leave that for another day.

20 MS. VITETTI: I'll look on that.

21 CHAIRPERSON GARODNICK: Okay.  
22 Council member Brewer.

23 COUNCIL MEMBER BREWER: Thank you.  
24 Thank you Mr. Stanton. You have obviously worked  
25 on some of the other data sets around the country.

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MR. STANTON: Yes.

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COUNCIL MEMBER BREWER: Which ones, or just generally what are some of the aspects that work that you would like to see replicated here in New York just generally.

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MR. STANTON: Well, I think someone previously said that replicating the format of RDF which is coming out of data.gov would be a wonderful thing to do. I think though that in terms of time and interest. Just having raw data will allow entrepreneurs to figure out what to do with it. You know I could sit here and come up with probably a thousand different applications for the data in my own mind, you do that across tens of thousands of developers and people and they're going to come up with things that are going to be wonderful.

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The bottom line though is that there are a lot of public safety issues that would benefit from having multiple interactions of users, understanding the data that's out there, understanding the relationships of that data.

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Just to give you an example of that someone pointed earlier to on ontology in New York. We

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1  
2 like to say our company, it's very important for  
3 us to know the difference between Madonna the  
4 musician and Madonna the religious figure or the  
5 Bronx Bombers being the same as the New York  
6 Yankees. All this data, all these relationships,  
7 all this understanding comes from being able to  
8 take raw data and glean from it these  
9 relationships and understanding and context.

10 So I think that because there's not  
11 a lot of technologists maybe involved in the  
12 process of creating the law itself, it may not be  
13 understood that just getting it out there can get  
14 us started to a point where wonderful things will  
15 flourish and I think that was best illustrated  
16 when I said that over 275,000 data sets are now  
17 available and it's growing very quickly and I do  
18 spend a lot of time in Washington, recently  
19 talking about this both to State department and  
20 other organizations that are moving so quickly,  
21 it's incredible at a federal level.

22 COUNCIL MEMBER BREWER: Did you  
23 want comment, sir? What works?

24 MR. WEBER: Push that twice. First  
25 of all I did just email you my testimony for you I

1  
2 apologize I didn't earlier print it out. I am too  
3 much XML. Yes, what I see is that this complexity  
4 challenge is a really difficult one. Working with  
5 the federal government in the NIEM initiative on  
6 standardizing definitions of things and getting  
7 consistent formats is really really important. I  
8 know there's a big push to get data out there in  
9 whatever format that you can. And I hear that but  
10 conversely the simple measures that you can take  
11 early on in the process so that you don't end up  
12 with a big mess upfront, and what we're talking  
13 about here is not rigid standards but flexible  
14 ones where things are named in a coherent  
15 consistent way so that you have predictability  
16 about the information that you're seeing. And the  
17 other aspects of this, obviously this XML, this  
18 many different flavors of as this gentlemen was  
19 mentioning, this RDF, you know don't bet the farm  
20 on one thing.

21 What I heard earlier we talked  
22 earlier about spreadsheets and that's one area  
23 that you can publish data with but a little known  
24 fact is and I included this in my written  
25 testimony that you can actually build spreadsheets

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that are interoperable with XML so you can view that data either which way. You can download the XML, view it as a spreadsheet.

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These are very empowering things that you don't want to limit by saying we only want to take these particular flavors so what NIEM has done is provide a broad range of guidelines to developers to follow to ensure consistency across the community and the use and development of open standards and what I've particularly been working on for the federal government is building open source software to facilitate that. I know you heard that earlier but I can't stress how important that is because then you have resources that anyone can access and use not only externally but you yourselves.

25

You talk about cost of developing this for New York and if you focus your efforts and monies on building tooling that will really accelerate what your own internal people can do to develop this and again I mention that California state election law, they were going down a hellish convoluted path that involved a year's worth of development and we were able to show them how to

1  
2 do that using open source and simple approach in a  
3 few weeks so it's very important.

4 COUNCIL MEMBER BREWER: Well thank  
5 you very much.

6 CAHIRPERSON GARDONICK: Thank you,  
7 one last question for you from Ms. Vitetti. We  
8 hear a lot today about ways that this data can be  
9 used by web entrepreneurs to make more accessible  
10 and user friendly. You noted that the purpose of  
11 Common Cause is to strengthen public participation  
12 and faith in our institutions of self government.  
13 Can you say a little bit about how you think this  
14 might empower communities or help the good  
15 government process?

16 MS. VITETTI: I think I would have  
17 to say that I could also see it from a good  
18 government point of view and also as someone  
19 coming from an elected official's office. I'm  
20 understanding frustrations of constituencies when  
21 they would come regarding requests they had given  
22 to FOIA, waiting for those requests and there was  
23 a lot of resentment feeling that this data and  
24 information should be readily available to them.  
25 They shouldn't have to go to request it they

1  
2 shouldn't have to come to an elected official's  
3 office to follow up on it. I think also from a  
4 good government perspective having this data  
5 readily accessible even for us cuts down on the  
6 amount of time and the resources having to track  
7 down certain data, have to find it in the raw  
8 instead of looking at aggregates and looking at  
9 trends over time.

10           There is also a way for  
11 constituencies and I think it works for both the  
12 government itself and the constituencies to look  
13 at performance evaluations for agencies, to look  
14 at case loads, to look at number of people that  
15 were served, to look at over time and then even  
16 you know from a good government perspective we  
17 might compare that let's say what budget for the  
18 organization or what money is being spent on and  
19 we're talking about the public's monies, we're  
20 talking about the public's trust. I think this  
21 changes a lot of the perspectives on the ground  
22 about what the government is or not making  
23 available and just that perception itself that we  
24 see so prevalent especially nowadays will  
25 definitely help by creating a government that



1  
2 people see as open, people see as responsive to  
3 their needs especially in local communities.

4 CHAIRPERSON GARODNICK: Great.

5 Well thank you very much and thanks to all of you.  
6 Now we'll invite our last panel up which is Dylan  
7 Golds and Thomas Lowenhop [phonetic]. Come join  
8 us. If there are others who wish to testify and  
9 have not yet been heard or not yet filled out one  
10 of the forms please do so now is your opportunity.  
11 And let's go right ahead and get started.

12 Welcome.

13 DYLAN GELTS: Thanks guys. My name  
14 is Dylan Gelts and I work with startup in Brooklyn  
15 called Roadify and using open data we've been able  
16 to improve public transportation and minimize  
17 traffic in Park Slope Brooklyn. We're expanding  
18 quickly—it's an ongoing process—so Brooklynites  
19 are currently using Roadify to access and update  
20 bus schedules through text messages as well as  
21 share information about open parking spots to get  
22 cars off the road faster. And our bus platform  
23 uses the MTA's released information which is a  
24 good case study and is simply based on riders  
25 reporting a bus location so that other riders

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2 waiting down the line could get a better idea of  
3 when it will arrive at their stop.

4

5 As I said we aggregated that real  
6 time user update side of it with the MTA's  
7 schedule to create a more flexible, more dynamic  
8 bus schedule that makes riders better informed and  
9 more participatory in their commute. That's why  
10 we say we're bringing community to their commute  
11 as my bright neon shirt says.

12

13 At a time when pains over cuts are  
14 running high the accessibility of the MTA data has  
15 allowed Roadify to help alleviate some of that  
16 strife and by releasing some of that data to  
17 developers and entrepreneurs like ourselves,  
18 government bodies are not only helping their  
19 constituencies but themselves as well. Promoting  
20 access to innovative and popular technologies  
21 allows governments to run more efficiently and  
22 offer solutions that otherwise wouldn't exist.  
23 I'll close just to say inherent to the  
24 democratization of information is the idea of  
25 participation and governments benefit when people  
participate so give us the capabilities to do that  
and we'll put it work for you. Thank you.

1  
2 CHAIRPERSON GARODNICK: Great,  
3 thank you very much. Hit that button one more  
4 time.

5 TOM LOWENHOFF: Good afternoon. I'm  
6 Tom Lowenhoff, Director of Connecting.nyc a New  
7 York state not for profit advocating for the  
8 development of the nyc. Domain as a public  
9 interest resource. My presentation is on the DNS  
10 query log a soon to arrive database. By way of  
11 background within the next few years the internet  
12 is going to change in fundamental ways. It is  
13 going to be more intuitive, this will happen as  
14 the eye candy that issues the more top level  
15 domain such as .com, .org and .gov finalizes an  
16 application process. There will initially be  
17 hundreds then thousands of top level domains with  
18 names such as .net, .sports, .news. So the future  
19 holds Chase and Citibank moving from Chase.com and  
20 Citibank.com to Chase.bank and citi.bank. Espn  
21 will move to Espn.sports and the Wall Street  
22 Journal will find advantage in moving to  
23 wallstreejournal.news. With this transition  
24 people will come to see that the internet is far  
25 more intuitive than today and will begin entering

1  
2 their domain name request directly. For example  
3 if you're looking for a bank you are likely to  
4 enter an index of .bank and directory of .bank or  
5 if you're looking for the news sources you might  
6 go to categories.news. And information about  
7 baseball might best be found on baseball in  
8 sports. It's going to be a different internet one  
9 way or another. Our dependence on search engines  
10 will be diminished.

11 In addition to the aforementioned  
12 sport news bank there will be city such as .paris,  
13 .berlin and my favorite .nyc. Imagine the nyc top  
14 over the main is fully functional in five years if  
15 people have come to recognize the benefit of  
16 entering domain names directly rather than relying  
17 on Google. So people learn that it's faster and  
18 more direct to enter Mayor.nyc or citycouncil.nyc,  
19 firedepartment.nyc and police.nyc. The operator  
20 of the nyc tlv will connect each of these queries  
21 to the appropriate website and create an entry in  
22 a query log database. This query log will contain  
23 valuable information for marketing governments and  
24 civic life perspective.

25 Let me give an example imagine in

1  
2 19985 we had an intuitive internet as I described  
3 it today. Baseball.sports, police.nyc and  
4 imagine the residents of Greenpoint Brooklyn  
5 started in entering inquiries such as hole in  
6 tree.nyc, spotted beetles.nyc, dying trees in  
7 Greenpoint.nyc, what happens to these queries? If  
8 they are for an existing website they will go  
9 directly to the site and I'll skip for a moment to  
10 privacy issues associated with that database and  
11 imagine it's a time like 1985 when the American,  
12 Asian long horned beetle has just arrived on our  
13 shores and residents of Greenpoint are entering  
14 intuitive inquiries so you can give information  
15 about the strange developments going on with their  
16 trees. Let's assume that none of these  
17 initiatives have existing websites, what happens  
18 to these erroneous queries. We advocate that this  
19 information can go into an error query database  
20 and be made available for all to inspect. Some  
21 clever researcher—you have the rest of it there.

22 CHAIRPERSON GARODNICK: Just say,  
23 if you could just sum it up really quick we'd  
24 really appreciate it.

25 TOM LOWENHOFF: Alright so the

1  
2 question is. This database is an error query log  
3 database would be a twitteresque database that the  
4 city would own and could use to find out what's  
5 going on and we could feel the pulse of this city  
6 by finding out what people are entering into .nyc.

7 CHAIRPERSON GARDONICK: Thank you  
8 very much. Let me just pose one question to  
9 Roadify. First of all we appreciate your  
10 creativity and how you managed to keep things  
11 moving in Park Slope. Help us understand what  
12 this bill would mean for you all if passed.

13 MR. GELTS: Yeah, so first off I  
14 forgot to mention that we were in the Big Apps  
15 competition and that was a fun experience for us  
16 but the more data that we have in terms of for us  
17 transportation is key the better we can service  
18 our public. We have big plans with including the  
19 alternate side of the parking data that can partly  
20 be found in the data mine currently through the  
21 RSS feed and such. We have big plans of including  
22 that into our systems so we can tell the 2000  
23 people in Park Slope that participate in Roadify  
24 to better inform them so that the Sanitation  
25 people can run more efficiently and street

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sweeping and stuff like that.

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CHAIRPERSON GARODNICK: Council

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member Brewer.

5

COUNCIL MEMBER BREWER: Alright now

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let me just be devil's advocate because I can also

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go online and this is, figure out alternate side

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of the street parking but I assume you want to

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layer it that would be what you would do, in other

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words you have not just the alternate side of the

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street parking but you have information about

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other opportunities in other words if the bus

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changes and all these other things. How, can you

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be more specific even than what the Chair asked

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about how this information was available with all

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databases you could actually use and in what

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format. Very specific.

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MR. GELTS: Absolutely. I'll be as

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specific as can be. I work in the space, I went

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and waited on an F train for 2 1/2 hours on

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Saturday all because I didn't go to the MTA

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website. And it's got to be more accessible and

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that's why we're doing it. We started with the

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text messages because they're the most ubiquitous

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most common. We're layering on not only

1  
2 information but iphone applications, better web  
3 accessibility but it's got to be more transparent  
4 and we're working to aggregate all these different  
5 places of information into a more easy to use and  
6 accessible manner.

7 CHAIRPERSON GARODNICK: Thank you  
8 both very much for your testimony and that is the  
9 last panel of the day so I will conclude with a  
10 quick thought and give Council member Brewer and  
11 opportunity just by saying that we agree with Mr.  
12 Stanton, data is beautiful and this is an  
13 opportunity for us to truly expand the way that  
14 both the constituencies out there as well as  
15 community groups as well as web entrepreneurs can  
16 harness what is existing out today and put it to  
17 much better use so we look forward to making sure  
18 that we get this bill passed and passed quickly  
19 and I give you council member Brewer for some  
20 final words.

21 COUNCIL MEMBER BREWER: Thank you  
22 very much I think that New York will be a very  
23 exciting place to do this partly because we have  
24 data that is more diverse and I think we are a  
25 well managed city and it would show the aspect



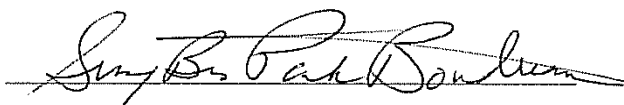
1  
2 that we are well managed and could take—we have so  
3 many entrepreneurs here and entrepreneurs I think  
4 who r understand the importance of serving their  
5 communities so this particular data would have so  
6 many important aspects to it and it will be very  
7 exciting so it's great to work with the Chair  
8 Garodnick and with the administration but finally  
9 I just want to reiterate one more time to thank  
10 Kanal Mahach and thank Sam Wong for all the work  
11 in putting this wonderful hearing and certainly  
12 the same over the years and Lou Klettner and Joely  
13 McPhee and certainly Jeff Baker from the committee  
14 and all those in the IT division who make it  
15 possible. We've had in this committee, we had the  
16 first tweet that went live and we've also had the  
17 first audio video in the other committee. We're  
18 kind of behind in the council but we're catching  
19 up but the data would be real and we look forward  
20 to working with you.

21 CHAIRPERSON GARODNICK: Thank you  
22 council member Brewer and with that this hearing  
23 on the Committee will be adjourned.

C E R T I F I C A T E

I, Sung Bin Park-Boudreau, certify that the foregoing transcript is a true and accurate record of the proceedings. I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

Signature \_\_\_\_\_



Date \_\_\_\_\_ July 15, 2010 \_\_\_\_\_