

CITY COUNCIL
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON TECHNOLOGY IN GOVERNMENT

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 250 Broadway, 14th Floor

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 Chairperson

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CHAIRPERSON BREWER: Good morning, I'm Gale Brewer, a City Council Member and head of the Committee on Technology in Government. This hearing is starting and we're here to talk about open government data. I'm joined by Council Member Bill de Blasio and I know other members are on their way. This is a very hot topic. At what we call Andrew Rasiej's Conference, but it is called Personal Democracy Conference where some of us were this morning, the Mayor in a video mentioned that he too was interested in this topic. So, needless to say, it's something that I think New York City can be cutting edge. It follows on the interest that I've always had on making sure that government data is public. Many thanks here today to Jeff Baker, who is counsel to the committee; Colleen Pagter, who is the policy analyst; certainly Junal Malhotra and Sam Wong from our office. So, just to open, talking about open government data, it's the concept that the publicly accessible data generated by the public sector should be available to the public electronically via the internet in open raw formats. I think "raw" is the key word there.

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2 Adopting open government data standards would make
3 access to information easy and affordable while
4 also promoting transparency and accountability.
5 Open data permits deeper and more varied analysis
6 of government data by enabling two or more
7 datasets to be integrated together. In December
8 2007, a group of 30 open government advocates, and
9 I think that actually translates to a lot of
10 companies, developed eight principles that define
11 open government data. They include complete, that
12 all public data should be made available. Public
13 data is data that is not subject to valid privacy
14 such as personnel records or health records that
15 are personal or security issues or privileged
16 limitations. Data should be timely. Data should
17 be made available as quickly as necessary to
18 preserve the value of the data. Data should be
19 accessible. Data should be available to the
20 widest range of users for the widest range of
21 purposes. Data should be machine-processable.
22 Data should be reasonably structured to allow
23 automated processing. We introduced number 991,
24 known in City Council terms as Intro 991 of 2009.
25 It requires all public records to be made

1 available on the net through a single web portal
2 formatted to enable viewing by web browsers and
3 mobile devices and also in raw or unprocessed
4 form. This bill would mandate that records be
5 made available without any registration
6 requirement, license requirement or restrictions
7 on their use and be presented and structured in a
8 format that permits automated processing. It
9 requires DoITT, which is the City's Department of
10 Information Technology and Telecommunications, to
11 promulgate rules establishing an internet record
12 policy and a technical standards manual for the
13 publishing of public records on the net by city
14 agencies by January 2010. In other words, there
15 would have to be an analysis and a plan for how
16 each agency would conform to Intro 991. Basically
17 the legislation requires each agency in
18 consultation with DoITT to review the public
19 records under its control and to develop and
20 submit an agency compliance plan to the Mayor and
21 the Council no later than January 2010. In
22 addition, agencies must classify the public
23 records under their control as immediate, priority
24 and legacy. Immediate is any public record that
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2 can be made available on the net within 30 days of
3 the agency acquiring or creating such record.

4 Legacy is any public record that due to its size,
5 complexity or technology constraints cannot be

6 made available on the net by July 4th, 2011. All

7 other public records shall be classified as

8 priority. Now, the good news is that this topic

9 is being discussed I think in New York today. It

10 is also my understanding that this particular bill

11 goes into legislative format whereas other states

12 and cities have certainly, such as Washington,

13 discussed this but it's been a policy regulatory

14 and not legislative. I also want to say that at a

15 Participation Camp workshop at New York University

16 this weekend with Matt Coprider [phonetic], Sam

17 Wong and I were there and talked about this bill.

18 I know some of you in the audience were there and

19 I appreciate your participation. I think there

20 were lots of great ideas as to how this

21 information can be used. So we will hear from the

22 administration, but we were fortunate that in that

23 workshop was Craig Newmark who is always trying to

24 deal with Craigslist. Obviously one of the issues

25 that we all would like to get more information on

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2 is housing, where is the mold, where is the
3 affordable housing, where are ways in which we can
4 use this data that would help people who are
5 trying to deal with the housing constraints in the
6 City of New York. Of course, there is no end, and
7 we'll talk about them later on, as to the type and
8 quality of the data that could be available to New
9 Yorkers and in fact everyone who is on the net.
10 Without further ado, I'd like to call up the
11 administration and ask them to participate in this
12 hearing. Is somebody here from the administration
13 that is going to testify? Thank you very much.
14 Why don't you introduce yourself? We know that
15 the Commissioner of DoITT was sitting next to me
16 early this morning, so all he has to do is sit and
17 listen all day and you guys actually have to talk.
18 We appreciate your being here. Thank you.

19 SAMI NAIM: Good afternoon Chair
20 Brewer and members of the Committee. I am Sami
21 Naim, Assistant Counselor to Mayor Michael R.
22 Bloomberg, and am here to testify on behalf of the
23 Administration on Intro 991. Joining me today is
24 Ariel Dvorkin, Special Assistant for Policy and
25 Governance. Transparency and accountability have

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2 been the cornerstones of the Bloomberg
3 Administration since day one. Indeed, over the
4 last seven years, we have worked hard to provide
5 New Yorkers with the information they need to hold
6 their government accountable. A few recent
7 examples include the NYC Stimulus Tracker. It's a
8 new tool that allows citizens to track how the
9 City is using funds that stem from the federal
10 American Recovery and Reinvestment Act. This
11 website enables the public to see what projects
12 are being paid for with stimulus dollars, when the
13 contracts for these projects are approved, and
14 which contractors are involved. NYCityMap is an
15 interactive map feature that allows users to
16 search by any address, intersection, community
17 district or City Council district, as well as by
18 hundreds of place names, and to add desired layers
19 atop these chosen locations, such as aerial photos
20 of the City, building and property information,
21 poll site locations, census data, neighborhood
22 health profiles and statistics, restaurant
23 inspection information, locations of educational
24 facilities, and locations of transportation hubs,
25 and much more. Citywide Performance Reporting is

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2 a revolutionary online tool that gives New Yorkers
3 access to critical performance measures from more
4 than 40 agencies in an easy-to-understand snapshot
5 format. CPR was recently nominated for a
6 prestigious "Innovation in Government Award" from
7 the John F. Kennedy School of Government at
8 Harvard University. ESubmit is a new program
9 offered by the Department of Buildings that allows
10 developers to submit required items and supporting
11 documents electronically, facilitating public
12 review of construction projects in neighborhoods
13 across the five boroughs. ARISParent Link is a
14 Department of Education service that we are
15 developing which will allow every parent or
16 guardian of a student attending public school to
17 track their child's current and past academic
18 performance. And just this morning Mayor
19 Bloomberg announced five technology initiatives to
20 improve accessibility, transparency, and
21 accountability in city government. One of the
22 initiatives that we are particularly excited about
23 is NYC Big Apps, the first annual software
24 application, which we believe will enhance the
25 transparency of city data. Modeled on Washington,

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2 D.C.'s successful Applications for Democracy
3 initiative, NYC Big Apps will encourage the use of
4 publicly available, operational city data to
5 develop open source applications, commonly
6 referred to as "mash-ups", that will benefit New
7 Yorkers, improve business efficiency, and save
8 taxpayer dollars. With NYC Big Apps, developers
9 will be encouraged to create innovative
10 applications with nearly 80 raw datasets from
11 across 32 different city agencies and commissions
12 to make living, working, and playing in New York
13 City easier and more enjoyable than ever. The
14 bill before you today is intended to build upon
15 the progress that the city has made. We commend
16 the Council for its desire to make government more
17 open, accountable, and transparent. However,
18 Intro 991, as currently drafted, raises a number
19 of complex operational and fiscal issues that are
20 of concern. First, the bill's definition of
21 "public record" would require a full review of the
22 city's record holdings to determine which records
23 would be required to be released to the public
24 pursuant to the Freedom of Information Law or
25 FOIL. Currently, the city stores at least 2.5

1 million cubic feet of documents in offsite
2 facilities, in addition to the records that exist
3 in agency offices and facilities. This roughly
4 translates into 6,250,000,000 pages of documents.
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6 Second, the task of reviewing these documents
7 would fall on agencies with limited resources.
8 Currently, agencies dedicate at least two people
9 to review documents pursuant to FOIL, a Records
10 Access Officer and Records Access Appeals Officer.
11 These officers are generally city attorneys who
12 serve their agency in a number of ways. They
13 advise policy makers, draft and review contracts,
14 respond to legal claims against the city, and, of
15 course, respond to FOIL requests and appeals. In
16 order to comply with Intro 991, these officers
17 would have to review all of their agency's record
18 holdings to determine which records are proper for
19 disclosure. For example, whether the release of a
20 record could, by reason of its disclosure, violate
21 a legally recognizable privileged communication,
22 such as an attorney-client communication,
23 undermine a law enforcement investigation,
24 publicize a commercial trade secret, or invade the
25 personal privacy of an individual. This is a

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2 Herculean task to say the least. Third, once this
3 review is complete, the bill requires the records
4 slated for disclosure to be converted to
5 electronic format, so that they can be posted on
6 the internet. According to the Office of
7 Management and Budget, the cost of scanning all
8 these documents is estimated to be more than half
9 a billion dollars. Finally, once the documents
10 are slated for disclosure by agency FOIL officers,
11 and converted into electronic format by
12 administrative staff, IT personnel must then
13 construct and maintain an infrastructure capable
14 of accommodating these records. The Department of
15 Information Technology and Telecommunications has
16 informed me that they would not only need to hire
17 substantial additional support staff and
18 information architects to implement this bill, but
19 they would also have to construct an entirely new
20 records management system with disk storage and
21 data processing power capable of meeting the
22 demands of Intro 991. While we clearly support
23 developments to make government more transparent,
24 accessible, and accountable, the placement of a
25 seemingly limitless amount of data online is not

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2 necessarily the most effective approach,
3 especially at a time when public resources are
4 stretched to the limit. Indeed, the vast majority
5 of the records currently warehoused by the city
6 are rarely the subject of FOIL requests and it is
7 unclear whether placing them online would make
8 them of any more interest to the public.

9 Therefore, it would seem not to justify the
10 extreme expense of doing so. Of course, moving
11 forward, as we develop new record retention
12 strategies, opportunities to make new data
13 available can be harnessed in a more cost-
14 effective manner. Indeed, NYC Big Apps is the
15 beginning of this kind of forward thinking.

16 Accordingly, while we agree with the spirit and
17 intent of Intro 991, we cannot support it for the
18 operational and fiscal impacts it would impose.
19 Thank you for allowing me to testify, and I would
20 be happy to answer any questions you may have.

21 CHAIRPERSON BREWER: Thank you. At
22 the workshop at NYU, I said that's what you were
23 going to say. I appreciate your coming here to
24 say it. The question I have is do you have any
25 knowledge of what the federal government is doing

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2 along these lines? Are you aware that President
3 Obama is with a much larger budget trying to
4 accomplish what Intro 991 is laying out?

5 SAMI NAIM: Just this morning, in
6 respect to the five initiatives that were
7 announced this morning by the Mayor.

8 CHAIRPERSON BREWER: I was there
9 when he announced them.

10 SAMI NAIM: The CTO for the White
11 House, Aneesh Chopra, said that these five
12 announcements align well with President Obama's
13 open government initiatives and that these
14 practices that we are undergoing are best
15 practices which should be replicated by other
16 governments across the country. I think we're in
17 step with what the federal government is doing. I
18 think we're providing that meets user preferences
19 and user needs. I think it's a successful
20 strategy and recognized by the White House as
21 being so.

22 CHAIRPERSON BREWER: The other
23 question I have is when you talk about FOIL;
24 having worked in an administration myself I know
25 that there are really a lot of FOIL requests.

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2 Sometimes people FOIL all agencies. They file
3 individual agencies. It depends on what they're
4 looking for. How much do you think FOIL costs on
5 an annual basis versus if you put that information
6 up? Would that not eliminate the need to do as
7 many FOIL requests as are requested? You didn't
8 mention the cost of FOIL in your testimony.

9 SAMI NAIM: One thing I would say
10 is that this sort of amounts to a FOIL request of
11 all records, which is a tremendous task. Again,
12 more than six billion pieces of paper have to be
13 reviewed. Our approach to transparency
14 initiatives generally is to build them along a
15 customer service model and to tailor them to user
16 preferences and needs in order to provide New
17 Yorkers with information that is meaningful, easy
18 to understand, easily accessible and which keeps
19 them, informed and engaged with government.

20 CHAIRPERSON BREWER: Do you know
21 that other cities, without legislation, are doing
22 what Intro 991 lays out? Washington, D.C. is an
23 example. It's obviously a smaller municipality.
24 Have you looked at any of their policies?

25 SAMI NAIM: We definitely have

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2 looked at the Applications for Democracy, which
3 has proved to be a great model for NYC Big Apps.
4 Again, that was part of the inspiration to create
5 this open data source competition that we're
6 pursuing in the next year.

7 CHAIRPERSON BREWER: But when
8 agencies provide data, don't they scan it in
9 sometimes so it wouldn't be so difficult to put it
10 on a computer and get it out to the public? How
11 is data accumulated now, say for instance on the
12 homeless? I sit on General Welfare with Council
13 Member de Blasio and there is a great deal of data
14 that those who are homeless and anything that
15 comes through HRA accumulates. How is that
16 collected now? It's my impression that internally
17 that data is available.

18 SAMI NAIM: What we do now is we
19 try to engage New Yorkers and speak into their
20 native tongue, which is plain English. So we
21 provide data according to the public's preferences
22 and needs and to respond to their specific needs.

23 CHAIRPERSON BREWER: What you're
24 saying is it is sort of complaint-driven or
25 request-driven?

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2 SAMI NAIM: A lot of times we
3 preempt those requests. For example, 311 Online,
4 we're providing a lot of information online so
5 that New Yorkers don't have to call 311 to find
6 the information they need. Another example is a
7 recent partnership with Google where we will be
8 able to track what New Yorkers are looking for,
9 what information they're searching for on the
10 internet to be able to provide that information to
11 them before they have to come to us. We think
12 this represents also cost savings as far as the
13 call center volume. I mean if we reduce the call
14 center volume by 10%; there are annual savings of
15 over \$4 million.

16 CHAIRPERSON BREWER: I feel very
17 strongly of the way which is that the public
18 doesn't know what data they need because they
19 don't know what the raw data is. I think that it
20 shouldn't be up to all of us in government to
21 decide what the public should have access to.
22 Obviously you have to take certain security and
23 other personnel and health issues into
24 consideration. But I really do think that the raw
25 data should be available to the public. They're

1
2 actually paying for it.

3 SAMI NAIM: We design our
4 applications around the public, not around what we
5 want to see or what we want out there. An example
6 is Citywide Performance Measures. A lot of times
7 they may show negative trends in street cleaning
8 for example. We are able to identify areas that
9 need improvement and adjust our operations and
10 resources accordingly. So we rely on this
11 information as much as the public and we believe
12 that good information makes for good management
13 and good public policy and good government.

14 CHAIRPERSON BREWER: Let's go back
15 to the FOIL issue. Do you have any sense of how
16 much it costs to provide two or so FOIL officers
17 per agency per year?

18 SAMI NAIM: The salaries of those
19 particular officers?

20 CHAIRPERSON BREWER: Or the time
21 involved. Do you have some sense of that? In
22 many cases that would not have to exist in such a
23 degree if in fact the information was up on the
24 net.

25 SAMI NAIM: As a former records

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2 access officer, I could tell you that I was
3 working on various matters, land use,
4 constitutional law, administrative law and FOIL.
5 It does encompass nights and weekends.

6 CHAIRPERSON BREWER: Yes, it does.

7 SAMI NAIM: But again, FOIL
8 requests aren't this size in magnitude. FOIL
9 requests exist in a point in time. It's hard to
10 have a hard and fast rule when it comes to public
11 records because government does so much and so
12 much information is memorialized in different
13 ways. So I hesitate to say whether or not like a
14 particular public is without a doubt no subject to
15 any exceptions of FOIL.

16 CHAIRPERSON BREWER: I think that's
17 another thing to be discussed. The public can
18 develop insights into government information and
19 use that information. There are things that you
20 might not think of that the public might be
21 interested in. Is that something that you have
22 thought about as you developed the mayor's five
23 policies today?

24 SAMI NAIM: Definitely. NYC Big
25 Apps is a great example of taking public data and

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2 incorporating it into your own daily life. For
3 example, if I'm a new parent and I want to take
4 Parks data to find out where playgrounds are.
5 Maybe I want to also take my child to a restaurant
6 afterwards. I can get private data of child-
7 friendly restaurants and really plan my day
8 accordingly. It's a catalyst for innovation and a
9 catalyst to also see what the public is interested
10 in and how they would use public data and
11 incorporate it into their daily lives. It's an
12 exciting time and it's very empowering for a daily
13 citizen.

14 CHAIRPERSON BREWER: The public
15 wants to know how clean the restaurant is, what
16 have been the past signs in terms of their
17 inspections. That's what they want to know.

18 SAMI NAIM: The DOH restaurant
19 inspection data will be part of Big Apps.

20 CHAIRPERSON BREWER: I know. But
21 you want to have the background, not just for that
22 but how clean the parks are. It will be something
23 that you want the raw data.

24 SAMI NAIM: All that data is online
25 in a quickly accessible, convenient, and easy to

1
2 understand formula.

3 CHAIRPERSON BREWER: How many
4 agencies are on? EDC, Health and Hospital
5 Corporation, NYCHA and some of the agencies that
6 are not particularly city agencies, are all of
7 those agencies on? Is DOE going to be part of
8 your Apps in terms of what you're considering?

9 SAMI NAIM: I know DOE definitely
10 will be part of our Apps in the early materials
11 that I've seen. Again, we announced this data.
12 We're going to roll it out later in the year. We
13 want this to be as helpful as possible. Again,
14 we're driven by the customer. So if it's helpful
15 to the customer then that's the direction we'll
16 go.

17 CHAIRPERSON BREWER: Will EDC be a
18 part of this also?

19 SAMI NAIM: I'm not sure as of now.
20 But, again, we're driven by customer needs.

21 CHAIRPERSON BREWER: But people
22 don't know what EDC is so how can they ask? In
23 other words, what I'm saying is the reason that I
24 want the raw data there is because the customers
25 don't know what is available from city agencies.

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2 They may know about Parks and they may know about
3 schools, but EDC would be an example where people
4 don't really know what EDC does. You're never
5 going to get a customer stating in the same way.

6 SAMI NAIM: The goal of NYC Big
7 Apps I should say is to provide as much
8 information to the public that they can embed in
9 their daily lives and use for their own purposes.
10 So, to the extent that any data that's out there
11 that we have, we'll certainly try to incorporate
12 into Big Apps.

13 CHAIRPERSON BREWER: What about
14 environmental impact studies from City Planning
15 Commission?

16 SAMI NAIM: I think, again, we want
17 to be driven by the customer.

18 CHAIRPERSON BREWER: The customers
19 want the EIS.

20 SAMI NAIM: We want to give
21 information in an easy to read, easy to understand
22 and convenient format. I mean I would have to
23 take a look and see to what extent we could
24 provide EISs or what have you. But again, it's
25 driven by customer needs and we want to address

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2 those specific needs as quickly as possible.

3 That's part of what customer service is all about.

4 CHAIRPERSON BREWER: This is a
5 question that we've asked DoITT a couple of times,
6 but is each city agency responsible for the
7 publication of its own city government data
8 policy, or does that come under the Mayor's Office
9 or under DoITT? How does each agency determine
10 right now publication of its data?

11 SAMI NAIM: I think we've done a
12 lot of interagency coordination as of late. NYC
13 City Map is a great example. Each agency used to
14 have their own map features and we combined them
15 in a one-stop shop so you can layer 311 complaints
16 and capital construction--

17 CHAIRPERSON BREWER: [interposing]
18 But you don't have the raw data. You just don't
19 know how true it is.

20 SAMI NAIM: But you do have data
21 that's easily accessible, easy to understand and
22 that really engages and directly communicates with
23 New Yorkers, and that's our goal.

24 CHAIRPERSON BREWER: How do you get
25 ideas for what data should be available from the

1
2 public? Is it just hits on NYC.gov? Do you have
3 focus groups? How do get that so-called we'll
4 respond to what the public wants?

5 SAMI NAIM: We solicit feedback
6 from customers in many different ways. For
7 example, the customer service survey earlier this
8 year on 311 to get an example of where we're doing
9 well and where we need to improve. Another
10 example was 311 online, again, taking the top
11 complaints, the top inquiries and trying to
12 address them and provide more information in these
13 areas.

14 CHAIRPERSON BREWER: Despite
15 Commissioner Cosgrave's efforts, the community
16 boards are still quite upset with how they get the
17 311 data. Just so you understand what the real
18 customer wishes, not necessarily the person who's
19 perusing nyc.gov, but people who really want to
20 see where the mold is, where the parks are, where
21 the hot spots are, where are things that are
22 deeper than one might get just by doing so
23 layering, which is important, but it's not deep
24 enough. Is that the only way you get information
25 from the public is through that one survey? Are

1
2 there any other ways?

3 SAMI NAIM: Again, we announced
4 collaboration with Google as far as tracking
5 online the traffic where it goes and what people
6 are interested in, and what categories of
7 information that maybe we should be providing more
8 information on. We are constantly working to
9 solicit feedback. All avenues are open.

10 CHAIRPERSON BREWER: It was
11 interesting this morning at Public Democracy,
12 there was a woman from Microsoft who is a
13 demographer and she was pointing out that as we
14 use the web, there are more digital divides
15 dividing us even using the web. In other words,
16 the issue of who uses one kind of social network
17 versus another. I just throw that out again
18 because I feel really strongly that the data in
19 its total form, as long as we agree to what that
20 is, needs to be up there much more than what you
21 are describing. I don't think the public really
22 knows the extent of government data. Unless they
23 have it available to them, they cannot know how
24 deep it is. I do believe that there will be a
25 cost savings as opposed to as much as you say it

1
2 would cost to put it up.

3 SAMI NAIM: I think that there is a
4 shared goal here in providing information to the
5 public and have an engaged, informed citizenry.
6 That's one of the initiatives with Big Apps, with
7 311 online, with 311 Twitter and with 311 itself,
8 in addition to all the other initiatives I
9 mentioned. I think what we're doing is trying to
10 find the most efficient and effective way to
11 engage and information New Yorkers directly to as
12 many New Yorkers as possible.

13 CHAIRPERSON BREWER: What do you
14 consider raw data? What do you think is a
15 percentage of actual raw data up on the net now
16 versus what is actually available if we were to do
17 it in the more extensive form of Intro 991?

18 SAMI NAIM: That granular of a
19 discussion of what is raw data versus some other
20 form of data, I really couldn't speak to it. I
21 think that's more of a DoITT inquiry.

22 CHAIRPERSON BREWER: They're
23 sitting at the conference right now. I understand
24 that.

25 SAMI NAIM: They certainly wanted

1
2 to be here.

3 CHAIRPERSON BREWER: I know and I
4 appreciate that. When you say easy to understand,
5 it sounds more like processed than what I consider
6 raw data. What do you mean by easy to understand?
7 I'm delighted to have Council Member Oliver
8 Koppell here also.

9 SAMI NAIM: The goal of all of
10 these transparency initiatives is to engage in a
11 meaningful conversation with the public. That
12 means more than just hitting them with a bunch of
13 bureaucratic language. We want to speak their
14 language which is plain English. A great example
15 is CPR. It's easy to understand, easy to see
16 snapshot of our performance across many different
17 agencies. Again, it recently won an award from
18 the John F. Kennedy School of Government. These
19 are really innovative projects.

20 CHAIRPERSON BREWER: I used to read
21 those proposals. Go ahead.

22 SAMI NAIM: That's why we were
23 singled out by the White House for being a leader
24 in this field and for engaging in best practices
25 that should be replicated elsewhere in the

1
2 country.

3 CHAIRPERSON BREWER: When you have
4 a document internally, isn't most of that
5 information already online and scanned? In other
6 words, when you're doing the homeless figures,
7 when you're doing the mold figures, when you're
8 doing the inspection for the Department of
9 Buildings, et cetera, most of that information is
10 already online and able to be given to the public
11 in a raw data format. Why do you think it would
12 cost that huge amount that you stated in order to
13 make it available online? Again, not in what you
14 call easy to use and I call processed, I'm trying
15 to find a way to have something that is both
16 available to the public and absolutely clear that
17 it comes in an unprocessed format.

18 SAMI NAIM: Again, agency records
19 encompass a lot of different categories. They
20 contain a lot of different information. You might
21 have 1,000 records that say something that you
22 could say in two lines. Our goal is to be as user
23 friendly with the public as possible. We feel
24 that we further the goals of transparency the more
25 user friendly we can be, the more we can directly

1
2 engage New Yorkers and the easier we can make it
3 for them to find the information that they need.

4 CHAIRPERSON BREWER: So how do you
5 work with each agency? How does DoITT work with
6 each agency to determine that agency's published
7 internet record policy? How do you move data from
8 raw as I call it to user friendly or processed?
9 How does each agency determine what data is going
10 to go upline and what is not? Is it this consumer
11 friendly consumer request? If you ask the general
12 public what government does, they have no clue.

13 SAMI NAIM: I would say the
14 difference between a successful transparency
15 initiative and one that lacks success is whether
16 or not it's customer-driven or bureaucratic-
17 driven. We don't have bureaucratic-driven
18 policies. We respond to the specific needs of New
19 Yorkers.

20 CHAIRPERSON BREWER: I would differ
21 with the Department of Education, sir. Please.
22 I'm just saying that is not true. That's just not
23 true. You can make an attempt to be customer-
24 driven and not bureaucratic, but to say that
25 you're not bureaucratic-driven is a stretch.

1
2 SAMI NAIM: I take exception to
3 that. I mean I mentioned earlier Parents Link,
4 which is a great tool that's revolutionary that
5 allows a parent or guardian of any child attending
6 public school to monitor their child's performance
7 current and past. I think that's a great tool and
8 I think they should be commended for it. They
9 worked very hard to meet the public need and I
10 think they do a pretty good job. I'm very happy
11 to be a part of it in a small, small way.

12 CHAIRPERSON BREWER: That is still
13 a really challenging IBM system. I could go on
14 and on about that system. Do not get me started
15 about that system. I would say that just leaving
16 DOE aside for a moment because I think parents do
17 understand more of what goes on at DOE than the
18 general public understands about Consumer Affairs
19 or EDC or some of these other agencies. Go back
20 to my question, how do you decide what agency's
21 records go up on the net? In other words, if you
22 talk to the Department of Consumer Affairs, which
23 to their credit does lots of different
24 inspections, how do you decide what raw data or
25 what data goes up? Who makes that decision?

1
2 SAMI NAIM: Again, it starts with
3 the customer. We build our entire initiatives,
4 all our applications around the customer to
5 satisfy their needs, to adjust to their
6 preferences, to speak their language and to make
7 it easily accessible to them. That is the basis
8 of all our initiatives. It's been a practice
9 that's been well recognized throughout the
10 country. I feel like we are a leader in this
11 field and it's a best practice that we embrace
12 moving forward.

13 CHAIRPERSON BREWER: Do you have a
14 published technical standards manual for the
15 publication of city government data on the net, or
16 do you just say if somebody is interested in this
17 topic we'll put it up?

18 SAMI NAIM: I think the general
19 premise is that we want to serve our customers
20 well. We want to serve the public. We have
21 certain goals in mind when we do a transparency
22 initiative. It's not how much paper can you put
23 up on the internet, it's more how much can you
24 engage New Yorkers, provide them with up to date
25 accurate information that's quick, convenient and

1
2 easy to understand.

3 CHAIRPERSON BREWER: So there's no
4 determination per agency based on some policy
5 regarding what data will go up. Is that what
6 you're saying to me?

7 SAMI NAIM: Well, I would say the
8 starting point is meeting the customer's concerns
9 and moving from that. I'm not sure if there is
10 further analysis, but again it starts and ends
11 with the customer.

12 CHAIRPERSON BREWER: All right. I
13 don't agree with that, but I'll let you stay with
14 that if you wish. That is something that I
15 absolutely do not agree. I think you need to have
16 a technical policy. You need to have standards
17 and you need to say that--

18 SAMI NAIM: [interposing] We're
19 already taking ourselves away from the customer
20 when we're doing--

21 CHAIRPERSON BREWER: [interposing]
22 I think I know more about city government than
23 most people, as does the other colleague here.
24 Believe me; the customer on the street has no idea
25 what city government does. They don't know what

1
2 state government does. They don't know what
3 federal government does. That's why I believe
4 that we need to produce this data in a form that
5 they can understand but it has to be much more
6 comprehensive than what you're suggesting. The
7 public does need their data. It's their tax money
8 and they do need to have it now that we have the
9 tools and the portals to be able to do that. It's
10 a different world. Twenty years ago we couldn't
11 do it.

12 SAMI NAIM: I think we agree on the
13 common point that we want to provide the public
14 with up to date accurate information to lead to an
15 informed citizenry. But we want to do it in as
16 efficient and effective manner as possible.

17 CHAIRPERSON BREWER: I think you
18 sort of answered this, but has there been any
19 effort to consolidate government data into one
20 searchable web portal? Or is that what you
21 consider nyc.gov? You're saying that you already
22 do that?

23 SAMI NAIM: Well, nyc.gov is one of
24 the largest municipal online portals in the
25 country.

2 CHAIRPERSON BREWER: Well we're the
3 biggest city.

4 SAMI NAIM: Over 70,000 visitors,
5 over 2 million a year visit. It recently won a
6 municipal government award as of last year.

7 CHAIRPERSON BREWER: It gets lots
8 of prizes. I don't want to hear about all those
9 prizes. Go ahead.

10 SAMI NAIM: I think it does a
11 pretty good job. I mean as far as online portals
12 go, it provides information, it is easy to use, it
13 is user friendly and I think we're well served by
14 nyc.gov and other initiatives such as City Map,
15 such as NYC Stimulus Tracker, such as the Parents
16 Link I mentioned earlier.

17 CHAIRPERSON BREWER: I know them
18 all. Is any of that data currently published in a
19 nonproprietary format that is usable by the
20 public? An example of course would be XML.
21 However, I also want to add one of the aspects is
22 the City Planning Commission records. Those are
23 definitely processed. That is not something that
24 is in a raw format that the public would like to
25 see to be able to manipulate on their own. Again,

1
2 you're not going to be changing the data, you're
3 going to be manipulating in an open fashion so
4 that the public can see what the original document
5 is but maybe they want to look at it in a
6 different format.

7 SAMI NAIM: I think we are heading
8 in the same direction. Again, like the
9 application NYC Big Apps would allow the public to
10 take public data and incorporate it into their
11 daily life for their own purposes. It would
12 result in new ways to see old data. I think it's
13 interesting because it shows not what we're
14 interested, not what someone at an agency is
15 interested in with the data but what the public is
16 interested in with the data and their interests.

17 CHAIRPERSON BREWER: I think the
18 issue there though is that it's still data that
19 you have determined the public wants as opposed to
20 the raw data. So maybe you're halfway there, but
21 you just need to go a little bit further and talk
22 about the raw data. The agencies have access to
23 it. When agencies come and testify, they have
24 access to it. All we're saying is that same data
25 should be available to the public, again, with

1
2 certain restrictions.

3 SAMI NAIM: I think we're heading
4 in the same direction. Again, with NYC Big Apps,
5 it replicates best practices around the country,
6 such as the Applications for Democracy. I believe
7 you mentioned it in the opening statement. Again,
8 this is a great project and we're really excited
9 about it. It leverages our local creative
10 community and sort of gives us a new
11 interpretation of old data that we've had for a
12 while.

13 CHAIRPERSON BREWER: Now, have you
14 looked careful at how the data from Washington,
15 D.C., San Francisco and Boston is being presented?
16 It is in a format that people feel is raw data and
17 is something that is going further than what
18 you're proposing.

19 SAMI NAIM: Again, I'll talk about
20 Big Apps. Application for Democracy sounds like
21 what you're describing. It's giving data out
22 there so the public can manipulate it and provide
23 a fresh perspective on data that we've had for a
24 while and really create new and innovative ways to
25 look at information. That's been the model for

1
2 NYC Big Apps and the model for other transparency
3 initiatives.

4 CHAIRPERSON BREWER: We're looking
5 at something that's more sustainable and that is
6 rawer than what you're suggesting. I understand
7 that you think that what you're doing is
8 sufficient. We're obviously stating that we need
9 to do more.

10 SAMI NAIM: I mean I think we are
11 always looking for new ways to engage the public
12 and provide them with information and serve their
13 needs. We're trying to do so, again, with the
14 taxpayer in mind as well. We're trying to do it
15 as effectively and efficiently as possible.

16 CHAIRPERSON BREWER: Either through
17 RSS or some other format, do you tell New Yorkers
18 when city government data has been updated? I
19 know that we're certainly working to tell New
20 Yorkers when there's a hurricane or a tornado or
21 an oil spill or whatever, but how about data?

22 SAMI NAIM: There's a program
23 called NYC Notify to let people know of the
24 tornado disaster.

25 CHAIRPERSON BREWER: That I'm

1
2 familiar with. I'm talking about data, which is
3 not as sexy as a tornado.

4 SAMI NAIM: Well I think DoITT
5 would disagree.

6 CHAIRPERSON BREWER: You think that
7 data is as sexy as a tornado? I don't think so.

8 SAMI NAIM: Without comparing
9 what's more sexy, again, I'm not very attuned to
10 RSS and http and what have you.

11 CHAIRPERSON BREWER: Well just
12 letting people know what's going on. In other
13 words, how do you notify people where there is new
14 information about the number of homeless, et
15 cetera? People have to go now to what I call
16 processed data in order to get that information.
17 How do people know that there's a new census out
18 for individuals who are homeless, just as an
19 example, or new mold numbers or whatever?

20 SAMI NAIM: One example is 311
21 Twitter where through a mobile device you can get
22 information from the city as it happens on maybe a
23 health warning that's an outbreak or maybe like a
24 heat warning and things like that. I mean we are
25 constantly looking at new ways to engage the

1 public and provide them with information that they
2 need. To the extent we can do that we will.
3 We've proven that over the last seven years.

4 CHAIRPERSON BREWER: What I'm
5 saying is there needs to be more notification when
6 there is data that's available. I think that what
7 Skyler did regarding the notification in terms of
8 emergencies is terrific, but this is a different
9 group. It's a different interest sector.

10 SAMI NAIM: Again, we roll out
11 these initiatives so the public will take
12 advantage of them. We don't roll them out for the
13 sake of rolling them out.

14 CHAIRPERSON BREWER: I understand
15 that but I'm just saying data is something that as
16 people get used to it they will actually learn
17 more about government, feel more empowered, which
18 is what we're trying to do to the citizenry and
19 make sure that they are aware. It's hard to
20 empower people. It's not something that any
21 administration wants to do. I understand that.
22 That's the whole purpose of data.

23 SAMI NAIM: Again, seven years ago
24 we didn't have many of these initiatives in place.
25

2 CHAIRPERSON BREWER: I know.

3 SAMI NAIM: We've done a lot to
4 date and we'll do a lot more in the future.

5 CHAIRPERSON BREWER: We've been
6 joined by Council Member Tish James from Brooklyn.
7 Thank you very much. Council Member James, do you
8 have any questions?

9 COUNCIL MEMBER JAMES: No.

10 CHAIRPERSON BREWER: I want to
11 thank you very much. I think we're still going to
12 be discussing this because we do not agree on the
13 depth to which this data needs to be produced. I
14 appreciate what you have done so far, but there
15 needs to be much more depth in terms of what we
16 are considering for the City of New York. I
17 believe that the federal government does go
18 further than what you suggested, despite what you
19 heard today. I also believe that these other
20 cities, be they progressive cities, are doing more
21 than what we are and we need to do more. Thank
22 you very much. First is Andrew Hoppin who is here
23 from Albany, Ian Jacobs and Ben Kallos from Open
24 Government. We're going to do panels of three and
25 that's the first panel. Whomever would like to

1
2 start, go right ahead.

3 ANDREW HOPPIN: Thank you very
4 much, Council Members and guests. I'm Andrew
5 Hoppin. I'm the Chief Information Officer of the
6 New York State Senate. I'm honored to have been
7 invited to testify here today. I'm going to speak
8 contemporaneously and I'll have prepared remarks
9 that'll be turned in later today. I'm not really
10 going to rehash the rationale for open data. I
11 think Mayor Bloomberg this morning and Councilman
12 Brewer have eloquently stated why it's so
13 important. What I will say and what I will speak
14 to is our experience in the Senate with why it's
15 been important and how we think that may translate
16 across different government entities. Everything
17 we do out of my office relates to transparency,
18 efficiency and participation in government. We've
19 found that while people often of open data as
20 being fundamental primarily for the purposes of
21 government transparency, we've found it's as
22 fundamental for government efficiency, even within
23 our own enterprise and also for citizen
24 participation in government. It's really the DNA
25 for all of these things. So in that regard, the

1
2 first point I'd like to make is I would encourage
3 the Council to think of other government entities
4 as a customer here as well as the public. We
5 often in the Senate need to make use of data as
6 part of our policy analysis and policy making
7 process that is not our data. And to the extent
8 that other government entities at the city level,
9 at the federal level, other state level entities
10 publish data openly in an easy to access and easy
11 to use format that assists us with our work.
12 Please consider other government entities as a
13 customer. That can enhance our efficiency as a
14 body of government entities working together.
15 Also, when you think about openness in data, I
16 would encourage you to think also about openness
17 in terms of the software code that may be written
18 to make use of this data. Open data can be the
19 tip of the iceberg really in terms of the work
20 required to actually make good use of that data.
21 So to the extent that tax dollars are invested in
22 doing work to make data useful, I would encourage
23 the Council to consider how to make the results of
24 that work on software code as open as the data
25 that goes into those applications. Then finally

1
2 openness in terms of communication; I think the
3 awareness of the availability of data, the user
4 stories about how data is successfully used and
5 the ability to learn from one another across
6 different levels of government really all comes
7 still through human beings communicating with each
8 other, whether online or offline. So all of the
9 roadmaps, the plans, the deliberations, the
10 successes and the failures that relate to the
11 opening up of government data I hope will be
12 thought of as being fundamental and open public
13 records as well so that we can all learn from each
14 other. So openness of code, communication and
15 data is my second point. The third is that in the
16 context of the Senate, I'd like to speak a little
17 bit to the debate that we just heard between the
18 offering of applications that are of immediate and
19 evident utility to citizens versus publishing a
20 lot of raw data online. At least in our context
21 we haven't seen there to be any conflict between
22 those two. One example is our effort to publish
23 legislation that we're working on. Online we have
24 both a search interface which is quite refined and
25 easy for citizens to use we think to search for

1
2 bill information. Also, on open.nysenate.gov, we
3 publish the raw feeds of that data in an API so
4 that you can actually write your own applications
5 to build the sorts of search interfaces that any
6 individual stakeholder might want for their own
7 particular use case. Because we don't believe
8 that we can do a sufficiently good job of meeting
9 every use case for every subset of our
10 constituency sufficiently, so we want to push the
11 power to do that out to as many people as possible
12 while still trying to do the baseline good job
13 that we need to do for the most widespread use
14 cases that we encounter. So that's my third point
15 that I don't think there is a conflict between raw
16 publishing of data and delivering highly refined
17 value added services to citizens. The fourth
18 point I would make is that I think citizen
19 participation is a key part of this. It can
20 actually help to bridge the gap between viability
21 and the desire to publish everything, which is
22 quite expensive. We have a lot of human beings in
23 this state who have time and talent on their hands
24 and there have been some good examples I think at
25 the federal level of how you can use crowd

1 sourcing applications to actually empower citizens
2 to add value to raw data and make it more refined
3 and therefore a more useful data product. In the
4 U.K. we saw an example recently of "The Guardian"
5 newspaper taking literally scanned records of
6 expenses incurred by members of parliament and
7 going through and looking at those expenses and
8 actually processing them into structured data.
9 Taking unstructured data and turning it into
10 structured digital data. While that particular
11 case may or may not be of interest at the city
12 level, I think we have seen time and again that if
13 you've got something that's too labor intensive
14 for government to do, there are now ways that we
15 can employ citizens being of public service
16 themselves in order to actually work with data and
17 add value to it and republish it through
18 government. So citizen participation and crowd
19 sourcing is my fourth point. My fifth point would
20 be that obviously there are legitimate points of
21 debate here. I find myself conflicted on some of
22 the issues that were debated here over the last
23 half hour. I think it's key in terms of
24 implementing this is coming up with good
25

1
2 legislation, if indeed it's implemented and
3 however open data in the City of New York goes
4 forward is that the process around doing it remain
5 open. It's fantastic to have this hearing. I
6 hope that the views of the people, the views of
7 the city administration and agencies and the views
8 of other government entities are represented
9 consistently throughout this process, not just in
10 the consider of it but through the course of
11 opening up data. There's a timeline all the way
12 through, I think it was 2012 or 2013, which
13 agencies would be potentially opening up their
14 data. Throughout that process I think it's going
15 to be important to have all those voices
16 represented as agencies figure out how to open up
17 their data, publish their roadmaps about how to do
18 it, test what works, learn from each other about
19 what works and doesn't and we in the Senate would
20 very much hope to be invited to be a part of that
21 ongoing debate and in turn to invite you to do the
22 same as we look to open up the subset of state
23 data which we work with directly. To that end, I
24 do hope that there is a role for not only DoITT,
25 but an entity within the city that represents the

voice of the people as you go forward into this.

Thank you very much for inviting me here today.

CHAIRPERSON BREWER: I want to thank you in particular because there is a lot going on in Albany and I appreciate your being here because I think you're the voice of reason for the State Senate. Thank you.

ANDREW HOPPIN: No comment.

BENJAMIN KALLOS: Good morning, good government, transparency and community advocates, Council Members Lappin, Gonzalez, James, Liu, and de Blasio, thank you for recognizing the importance of this issue and for sponsoring this introduction. Council Member Brewer, thank you for chairing this committee, for being the first to propose this kind of ground breaking legislation for today's advocacy, and most of all for being an amazing legislator and role model for so many in the city. My name is Benjamin Kallos, I am here before you today as co-founder of the Open Government Foundation, a New York State not-for-profit which aims to bring greater transparency, accountability and openness to government by making information available

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2 online for all to see. Government is like anyone
3 of us, because it is comprised of so many of us,
4 and it is subject to the same sicknesses and
5 disease. Unlike us, we know the cure for most of
6 the government's worst ailments and maladies. If
7 we may be the first of many to quote him today,
8 Justice Louis Brandeis famously wrote, "Publicity
9 is justly commended as a remedy for social and
10 industrial diseases. Sunlight is said to be the
11 best of disinfectants, the electric light the most
12 efficient policeman. Transparency and openness in
13 government should be likened to medicine or a
14 vaccine." Like Buckley's, a medicine taken to
15 cure a recurring ailment like a cough, "It tastes
16 awful and it works." Like a vaccine, dreading the
17 shot is often worse than the shot itself. We have
18 all acknowledged the value of vaccines, requiring
19 measles, mumps, and rubella, amongst others, for
20 all children who attend public schools. We must
21 make sure our elected and appointed officials get
22 a similar vaccine against corruption. While
23 transparency might cause momentary pain, as when
24 member item information was recently released and
25 scandal uncovered, new reforms were created to

1
2 avoid future corruption, leaving both City Council
3 Members and New York City healthier in the long
4 run. I'm going to skip the next piece of the
5 testimony.

6 CHAIRPERSON BREWER: That would be
7 great. Go to some of your suggestions. That
8 would be great.

9 BENJAMIN KALLOS: If I may, I'd
10 like to just go over our experience as a not-for-
11 profit with FOIL.

12 CHAIRPERSON BREWER: Sure.

13 BENJAMIN KALLOS: Earlier this
14 year, our Foundation sent a Freedom of Information
15 of Law request to the New York State Assembly and
16 Senate as well as the New York City Council. FOIL
17 is the only means for good government groups and
18 reporters, let alone citizens, to gain access to
19 most government information. It is worth
20 mentioning that most of this information must be
21 made available within 5 to 20 days and paper
22 records often have a statutory cost of 25 cents
23 per page. In our experience, the New York State
24 Assembly followed the FOIL to the letter. They
25 quickly responded within 5 days statutory time

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2 line. They quickly delivered an electronic copy
3 of every single bill and vote since 1995, which we
4 promptly posted online at
5 NewYork.OpenLegislation.org. The New York State
6 Senate has since delivered committee voting
7 information for 2007 and 2008, which was also
8 promptly posted on the same site. With a small
9 addition; you made a point regarding RSS feeds and
10 alerting people as to what type of information was
11 happening. Our foundation has already created
12 Data Gov Tweets, which is a Twitter account so
13 that people who are interested in what's being
14 posted at data.gov can get it on their Twitter
15 feed. We're also created RSS feeds for various
16 types of legislative bill actions so that you can
17 get a feed in XML showing when a bill that you're
18 following or certain bills have made it out of
19 committee or are being voted on. Although both
20 legislative bodies have been cooperative, many
21 State Legislative records remain in paper form.
22 For example, the New York State Assembly's
23 committee votes for 2008 number 5,356 pages and at
24 the previously mentioned statutory 25 cents per
25 page will cost \$1,339. While the State

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2 Legislature has been compliant, the New York City
3 Council has requested 90 just to respond to the
4 same request and our appeal, detailing how the
5 City Council could and should comply with the FOIL
6 was recently denied. There are many instances
7 where government bodies have demonstrated bad
8 faith in compliance, requiring litigation to
9 release public information, costing government and
10 those exercising their rights hundreds of
11 thousands. While some critics of open government
12 or this legislation might argue that freedom of
13 information and open meetings law provides for
14 sufficient access, we would simply point to our
15 current interaction with this very institution
16 where transparency, accountability and openness
17 remain blocked while we wait three months for a
18 response that the law dictates, and other
19 legislative bodies have demonstrated, should take
20 no more than 5 to 20 days. In fact, in our
21 foundation's efforts to set legislation free we've
22 learned that government has incentivized itself to
23 keep information secret. The government generates
24 information that has value by virtue of the fact
25 that it affects constituents. The government then

1
2 pays a vendor to help it internally manage that
3 information. At the same time as that vendor is
4 getting paid by the government, the vendor becomes
5 the only source of that data in manageable form.
6 The vendor then licenses access to the public who
7 need it so badly that they are willing to pay for
8 it. We have been advised that should the State
9 Legislature begin using our website or should they
10 implement our free source code, it would save
11 millions a year in management fees and eliminate
12 costs in the tens of millions currently paid by
13 the public to a vendor to gain access to the same
14 information that should be made free by the
15 government rather than a not-for-profit. In an
16 open, free democracy it shouldn't be up to the
17 government to decide what information is important
18 enough to be released to the citizens for free.
19 Instead, all non-private data should be released
20 in its entirety, and citizens should be empowered
21 to decide what information they will consume, when
22 they will consume it, how, where, and why. Our
23 mission is simple: wherever government neglects to
24 release critical data to the public, whether
25 through apathy, indifference, or impracticability,

1
2 we will step in and use every means available to
3 release the information for free ourselves. When
4 Council Member Brewer sent out a call for
5 testimony that was rightfully distributed widely
6 throughout the open government internet
7 communities, asking the Internet community to help
8 "highlight the advantage to web developers if
9 there was city data available in an open data
10 format", given our recent experience, having
11 developed a website for state data and wishing to
12 develop a website for city data, our foundation
13 heard this call loudly and clearly.

14 CHAIRPERSON BREWER: Ben, can you
15 just summarize? You're doing great. Can you
16 summarize the rest of this?

17 BENJAMIN KALLOS: Sure.
18 The suggestions are next and I'll wrap up quickly.
19 Data must be available over the internet in
20 accordance with the open principles of open data
21 to facilitate development because in its absence
22 three problems virtually preclude any developers
23 from building websites or applications to benefit
24 New York City. First, if the data is not
25 available over the internet, developers can't

1 aggregate it, because it isn't there to collect.
2
3 If the data is not freely available over the
4 internet, it requires burdensome, technical,
5 lengthy, and expensive FOIL requests, discussed
6 earlier. Second, if the data is not in an open
7 data format, developers won't be able to use it to
8 create websites or applications. Again,
9 developers are in a technical, specialized fields,
10 and they like presenting technical information to
11 a user in simple and useful way. Many developers
12 don't like to parse through flat files that result
13 from FOIL requests. This poorly formatted data
14 only presents yet another obstacle to making New
15 York City's data useful. Our foundation can
16 testify that data obtained through a FOIL request,
17 must be parsed into a format that can be easily
18 manipulated by a website or application, which is
19 time consuming, difficult, and requires an
20 esoteric skill set that is uncommon even in the
21 most dedicated developer. Third, without strong
22 legislation, government agencies are extremely
23 unlikely to do what this introduction would
24 require of their own accord. Our experience has
25 shown that government is slow to take initiative

1
2 and sometimes seeks to avoid compliance with the
3 existing FOIL law. Once your introduction is
4 passed into local law it will encounter similar
5 resistance in compliance like FOIL. Our
6 foundation recommends adding a self-enforcing
7 provision aside from litigation to provide
8 remedies to citizens, good government groups and
9 journalists for failed compliance, which would
10 state that city agencies may not charge FOIL
11 statutory fee for any records produced in
12 exclusively physical paper form, after July 4,
13 2010. Without this legislation and strong
14 incentive for compliance, New York City will not
15 be leading our nation with open data standards,
16 let alone keeping up with national trends. Thank
17 you again for considering the adoption of open
18 data standards. We look forward to working with
19 the New York City Council to make open data a
20 reality in both the short and long term.

21 CHAIRPERSON BREWER: Thank you very
22 much. We'll certainly talk to the general counsel
23 about the lack of FOIL responses, or we'll check
24 on that.

25 IAN JACOBS: Hello.

2 CHAIRPERSON BREWER: Hello.

3 IAN JACOBS: My name is Ian Jacobs.

4 It's a great pleasure to be invited to speak
5 today. It's a little bit by accident. I was here
6 for other reasons. I was invited to the hearing
7 and it turns out the organization I represent is
8 mentioned by name in the proposal, which is the
9 World Wide Web Consortium. I'm the head of
10 communications for the W3C. I'm thrilled to hear
11 about the proposal. Just a quick word on W3C, we
12 were founded in 1994 by Tim Burners-Lee, who is
13 the inventor of the World Wide Web. Data is a
14 great passion of his, especially these days. Our
15 mission is to create standards that are open and
16 available for free to make the Web available to
17 all, anywhere, on any device. So some of the
18 standards you may recognize include XML and HTML.
19 Right now we have a new develop stack of standards
20 for data called the Semantic Web. Some of them
21 you may not have heard of yet like RDF and SKOS
22 and OWL. But we have been developing these
23 standards for open data for ten years. I think
24 1998 was the first standard, RDF. We've been
25 developing communities to help make the best use

1
2 of these open standards, including for example the
3 health care and life sciences activity. More
4 recently, the e-government activity has really
5 caught on fire. So we have an active interest
6 group where people can participate and learn and
7 contribute to best practices for putting data on
8 the Web. So it seems to speak exactly to the
9 problem you mean to address in the proposal. I'm
10 happy to provide other information about how we
11 operate in our public accountability process
12 ourselves and anything you'd like to know about
13 the standards. I have just a couple of words
14 about the proposal which I just read upon
15 arriving. I think it's, of course, the perfect
16 answer to use these open standards for data
17 longevity and for cost reasons and to build one
18 web. I heard a cry for raw data now, which Tim
19 Burners-Lee had the audience chanting at the
20 lecture earlier this year out in California. As
21 far as the cost of doing this, it seems like a
22 good way to start is to put up the data that's
23 already available electronically using these open
24 formats. Again, Tim Burners-Lee recently
25 published a document in response to the request

1
2 from the Obama administration about how to put
3 data on the web, so that's available as of last
4 week. I can share that URL with some people if
5 they're interested. One thing that raised an
6 orange flag for me was the requirement for a
7 central portal. Points of centralization tend to
8 cause blockages and it would seem that it would
9 both lower costs and make life easier for people
10 if they could sort of publish their data
11 independently and then it could be aggregated by
12 any number of sites. I heard the chair speak in
13 favor of RSS feeds and that sort of thing. So I
14 think aggregation is a good way to help reduce the
15 costs and to sort of free up each agency to
16 publish what it has at the speed that it's capable
17 of doing and to establish collaboratively good
18 practices for doing so. Again, W3C is very, very
19 interested in the participation of governments
20 internationally, but we recognize that there are
21 needs at different levels. I appreciate the
22 comment about interagency and intra-agency needs.
23 We have an open forum and welcome participation
24 and help in building these good practices. I'm

1
2 happy to answer any other questions you might
3 have. Thank you again.

4 CHAIRPERSON BREWER: Thank you all
5 very much. We did mention in our legislation that
6 there would be more difficult data and easier to
7 put up data. So it's sort of along the same lines
8 that you just described. We would ask that the
9 data that's available go up. So I think we're
10 thinking along the same lines. There are some
11 legacy systems that might take longer. When you
12 have talked to other cities or the federal
13 government or maybe other countries, particularly
14 in your role, have you found that some of the
15 roadblocks that you heard discussed today have
16 appeared? Or are they able to get this data up in
17 the format that our bill outlines?

18 IAN JACOBS: I have not
19 participated actively in those discussions. I'd
20 be happy to have one of my colleagues in the
21 interest group talk to you about that. The one
22 comment I did hear was that some of the state
23 governments were nervous about things like RSS
24 feeds. They were not as up to date in technology
25 as maybe the federal government was. I have no

1 way to back up that statement, but that was one
2 comment that I heard. I also know that people
3 have invested a lot in XML and may be wondering
4 what the difference is and why they should go to
5 RDF. Without belaboring the technical details, I
6 think RDF it turns out is easier to merge with
7 other data. For technical reasons it's just much
8 easier to put it together and create mash-ups,
9 which I heard was one of the big goals. Getting
10 from XML to RDF is quite simple. That was one of
11 the comments that I heard.
12

13 CHAIRPERSON BREWER: In Albany, do
14 you find that there are other state legislatures
15 that are trying to do what you're doing? Is there
16 any kind of discussion going on around the country
17 as to what different legislatures are doing?

18 ANDREW HOPPIN: We have asked and
19 we have begun to form a de facto community of
20 practice with our peers in other states. We have
21 not found formal processes and specifications that
22 we hoped would have existed that would make our
23 jobs easier. We went to the National Council on
24 State Legislature to talk about taxonomy for
25 legislative data so that you could look up a bill

1
2 in one state and know that you're also able to the
3 find the analogous bill from another state at the
4 same time. That has not been done to our
5 knowledge. We're hoping to set a standard, again,
6 by doing it in an open way all the way along,
7 publishing our roadmap, inviting other people to
8 critique and add to it that we'll set a standard
9 that won't be just good for us but good for other
10 states. We're actually putting up a wiki that
11 will help other states to publish their analogous
12 experiences alongside ours so we can all learn
13 from each other. I think at a city level there's
14 a direct analog as well in terms of if you figure
15 something out, help other cities to leverage off
16 that good work and vice versa.

17 CHAIRPERSON BREWER: The National
18 League of Cities would be the place to go. Back
19 to the issue of the portal, I think we have 80
20 city agencies here. That's a lot. I think that
21 when you talked about centralized versus
22 individual, there has been a big push due to the
23 constraints of budget to try to do more under the
24 umbrella of DoITT, which is our technology agency.
25 I'm just saying that I understand the

1
2 centralization argument can be a challenge if
3 there are barriers and slowness that result. But
4 I do think that agencies need to be somewhat
5 collaborative if there is a resource. How do you
6 answer that question?

7 IAN JACOBS: I think W3C has a lot
8 of experience in these collaborative processes and
9 so I think giving them a forum for doing so should
10 be low cost and everyone would benefit.
11 Aggregating the information that they publish may
12 be of service to the citizens that can go to one
13 place and find what they need. But it should
14 probably not be the only way for them to reach
15 that. So it can be a convenience but without sort
16 of hampering the agencies from putting their data
17 online.

18 CHAIRPERSON BREWER: Are you
19 working then with other municipalities through the
20 National League of Cities or the U.S. Conference
21 of Mayors or National Association of Legislatures
22 or anything like that to try to work with best
23 practices? Is that something that has come up as
24 you talk about e-government?

2 IAN JACOBS: We're revising the
3 charter of this interest group as we speak and the
4 emphasis on creating a forum for this to take
5 place is already built into the draft charter. I
6 have not myself chatted with these agencies. I'm
7 taking notes so that I can go back and find out if
8 we have. It's certainly our goal to produce sort
9 of best practices.

10 CHAIRPERSON BREWER: Thank you very
11 much. This is fascinating and the conversation
12 will continue. Thank you very much. The next
13 panel is Philip Ashlock from the Open Planning
14 Project, James Vasile from Software Freedom Law
15 Center and Morgan Reed from Association for
16 Competitive Technology. Whatever people send in,
17 we will incorporate as part of the record.
18 Needless to say, there will be much discussion
19 back and forth. Whoever would like to start
20 please proceed.

21 MORGAN REED: Good afternoon. My
22 name is Morgan Reed with the Association for
23 Competitive Technology. Thank you, Chairwoman
24 Brewer, for having this hearing on Intro 991. A
25 quick explanation, ACT, the association is an

1
2 education and advocacy group focused on small
3 technology-based businesses. We represent over
4 3,000 software developers, systems integrators, IT
5 consulting firms, and e-businesses and we
6 generally advocate for a healthy tech environment
7 that promotes innovation, competition and
8 investment. We are very active in supporting the
9 goals presented in Intro 991 and we look forward
10 to working with you and others to make it a
11 reality. I'll vary a little from my written
12 testimony to say that there seems to be violent
13 agreement amongst all of us of the need for open
14 data. We of course are big champions of the
15 concept of raw data as developers. We've written
16 a paper recently where we discussed what we think
17 are the three principles of what we call we-
18 government and that's like access, participation
19 and accountability. I thought I'd move away from
20 the agreement area and talk about something a
21 little bit different, which is focusing on the
22 developers. We've talked about this in platitudes
23 and what the government should do, but I thought
24 it was interesting that the gentleman from the
25 Senate, he said that the State of New York has a

1 lot of people with time on their hands and talent.
2 I'd like to make sure that we find ways to make
3 sure that those people don't have time on their
4 hands and that they have jobs. So what I'm
5 interested in, in pursuing the open data element,
6 is to give them an opportunity to build
7 applications that actually result in revenue in
8 their pockets that are ad-supported or they can
9 sell subscriptions to. They can bundle with other
10 proprietary information from the financial
11 industry and build applications that actually move
12 us in a positive economic direction. I thought it
13 was interesting that one of the other areas that
14 the gentleman from the Senate touched on was this
15 concept, and he's exactly right, that there are
16 more than just one set of customers out there.
17 We've heard a lot of people speaking about
18 citizens as customers. My membership actually has
19 real customers, the folks who actually pay the
20 bills. So when I look at opportunities from the
21 open data element, I see opportunities for our
22 membership to sell services into other government
23 agencies. That we can actually go into a
24 government agency and not have to have 10 meetings
25

1
2 with 14 roundtables that bring in 2 departments,
3 but that we can go into a Department of Education
4 and say I'll build you an application using data
5 from another department and I will merge that
6 independent of an interagency working group, an
7 interagency funding process. I'll make it happen
8 with your own revenue stream and give you the
9 information you need for internal customer
10 purposes. So I think there is a whole element of
11 this, we want to serve customers of the broader
12 citizenry, but I think there is an amazing
13 opportunity to add efficiencies that gets us out
14 of some of these elements of siloing. We all know
15 there is this hoarding mentality that happens. We
16 all know that getting two agencies to work
17 together is difficult. I think open data presents
18 a huge opportunity for my membership to sell
19 services to build platforms independent of
20 interagency working groups. I think that's a
21 phenomenal opportunity for the state. I also
22 think that one of the areas that we should focus
23 on a little bit is industry best practices that
24 we're seeing today. Where are we really seeing
25 the rubber hit the road? This has been touched on

1 a little bit, but we all know that Chinese saying
2 of teaching a man to fish and he eats forever. I
3 think this debate about open government and your
4 focus on raw data can really be broken down in
5 that. When the government hands us a flat file of
6 information and they throw it over the transom,
7 it's just one fish. What we really need to do is
8 start looking at systemically having government
9 agencies conceive of their data in three key
10 characteristics. It needs to have open data
11 services built in from the ground up. It needs to
12 be open for application services as well. In
13 other words, I should be able to tie into the data
14 stream, respecting security and paying attention
15 to privacy, and immediately have access to data in
16 real time. And then lastly, it needs to be
17 technology neutral. One of the elements that have
18 been phenomenal for us is the Kindle. I don't
19 know if the chair has a Kindle but you've heard of
20 a Kindle I'm sure. The Kindle technology is
21 actually something based on a format developed by
22 a company called Mobipocket, which was an ACT
23 member. We all love open standards and we love
24 standards activity and we love the process so to
25

1
2 speak that takes place going through standards
3 activities. But really the cutting edge of
4 innovation often happens apart from standards.
5 It's from the guys who don't have the money to fly
6 to Geneva to sit down in a meeting with 14
7 lawyers. It's a company like Mobipocket that says
8 we know how to deliver a format on a mobile device
9 this size or this size or this size and we're
10 going to put it in the marketplace and we're going
11 to see if the real customers, the citizens find it
12 acceptable. So I want to make sure that as
13 government develops technology and puts it out
14 into the marketplace that it does so in a
15 technology neutral way that allows us to build on
16 top of it. That may mean that we're going to take
17 it in a direction no one's ever thought of. We
18 can also look at what the big players are doing.

19 CHAIRPERSON BREWER: Can you just
20 summarize a little bit?

21 MORGAN REED: Yeah. We should take
22 a quick look at what the big players are doing and
23 I think there's some guidance there. The large
24 players, such as Google we know, Amazon has their
25 web services and Microsoft has what's called their

1
2 Open Government Data Initiative or OGDI. I'm
3 going to take a moment to touch on OGDI because
4 it's been one that we've heard a lot of developers
5 talk about. This is a product from Microsoft, of
6 all things, and it is platform neutral and open
7 source. It's actually an operating system that
8 Microsoft has made available so that you can store
9 data there and take it out in real time. Yet, my
10 members who don't use Microsoft products can
11 access the technology on it. It's available to be
12 reached out to through Adobe flash, JavaScript,
13 PHP, you name it and I can get access to it. So
14 it's interesting to see that even the big players,
15 even the big proprietary players are seeing
16 opportunities to provide data in this format. So
17 ultimately I think we know that from the
18 developer's perspective we agree it's got to be
19 raw. We want to see it tech neutral and we want
20 to see it built from the ground up with the
21 concept that I'm going to provide this in real
22 time and look for ways to make it interagency
23 operable. I would say that all of our
24 recommendations fit very much in line with what
25 the bill has in place. Thank you very much.

1
2 JAMES VASILE: Good afternoon,
3 Chairperson Brewer. Thank you for this
4 opportunity to speak today. My name is James
5 Vasile and I am legal counsel for the Software
6 Freedom Law Center. The center is based here in
7 New York and we're a nonpartisan nonprofit legal
8 services organization whose mission is to provide
9 pro bono legal representation to those who make
10 technologies that promote free communication and
11 innovation. This bill makes government data
12 available to New Yorkers in two different ways.
13 The first is the web portal and we've all talked
14 about that, but the most important thing is the
15 raw data. Everyone has sort of been focused on
16 that and I am going to be focused on it as well.
17 The exciting thing about giving New Yorkers raw
18 data is not just about the city giving up its data
19 and the city being transparent and the city
20 sharing things with people, it's about what we can
21 do with that data once we get our hands on it.
22 The amazing thing is that we have no idea what
23 people are going to do with the raw data once we
24 give it to them. We have no idea what their needs
25 are and certainly as much of an idea as they have

1
2 themselves. There are so many different ways we
3 can use this data that we haven't even thought of
4 yet, that we will only discover once we actually
5 hand it to people and see what they come up with.
6 The only way to do that is by giving them the raw
7 data. I'd like to talk a little bit about the
8 kinds of things people might do just to show sort
9 of the exciting possibility that exists there and
10 then talk a little bit about who they are and why
11 they're going to do these things. If we give
12 people this data, they can combine data from
13 Consumer Affairs, the Police Department, the
14 Health Department, Sanitation and take all that
15 government data and combine it with non-government
16 data that's available from other sources on the
17 internet, including proprietary sources of data.
18 We're going to start getting services that allow
19 us to answer questions like where is the nearest
20 place I can park without having to wake up for
21 alternate side tomorrow? That might sound like a
22 trivial thing, but that's a huge deal in the lives
23 of a lot of New Yorkers. I mean the number of
24 people who have to plan their lives around Mondays
25 and Thursday mornings so they can be near their

1
2 car is quite large. You can answer questions
3 like, which restaurant in my neighborhood has both
4 great reviews and a good health record. That's
5 something you can't do just from government data.
6 Ideally, you want to do it right in the place
7 where you're already looking for your restaurant
8 reviews. You don't want to have to go to a
9 government web portal to find out this
10 information. You want that information already
11 out there, already in the service you're already
12 using at Yelp.com or Yahoo or Sidewalk or whatever
13 place you're going to find a restaurant review.
14 You want that information already there. You
15 don't want to have to take a second break from
16 what you're doing to try to find the data
17 somewhere else. The other thing this can do in
18 addition to just sort of daily lifestyle stuff is
19 help businesses plan their mode of operation in
20 the city. If you could answer the question where
21 should I put my electronics store so that it has
22 the least competition and the most foot traffic?

23 CHAIRPERSON BREWER: That's the
24 analogy I like the best. Go ahead.

1
2 JAMES VASILE: That question of
3 where I should put my business and how I should
4 structure my business to get the most out of city
5 data and city life is really important. You're
6 not going to get that just from the city. Someone
7 at a city desk is not going to magically wake up
8 one day and say I think the public needs to know
9 where there is a lot of foot traffic and little
10 competition for electronics stores. The fact is,
11 that's a very specific kind of demand and it's the
12 kind of demand that people have for themselves.
13 They wake up one day and realize they need it and
14 they need a way to answer that question. The city
15 is never going to provide people with a way to
16 answer that question. If the city creates a web
17 portal, it is not going to go that deep. It is
18 not going to get that niche that people will be
19 able to answer that specific a question. But that
20 specific question is exactly what people need
21 answered and that's why we need the raw data. The
22 last example I'd like to give is somebody either
23 looking for an apartment or looking to sell an
24 apartment. It would be really useful to find out
25 average prices of apartments similar to the one

1
2 you're looking for within a certain block radius
3 or something like that. That's an extremely
4 specialized application. We can sort of imagine
5 the city doing that at some point. But we could
6 also imagine the real estate market doing that for
7 the city and for consumers at no cost to the
8 public, which I think would be a better win for
9 the city in terms of how it spends its dollars.
10 The reason to put all these things online is that
11 we can't predict what people are going to do with
12 it. And even if we could predict what people were
13 going to do with it, we would never get down into
14 the weeds, into the details to satisfy everybody's
15 smaller needs. I'd like to give just three
16 examples of how the public uses this information
17 currently. These are three really good examples
18 of how volunteers have stepped up to organize
19 government data and present it to other people.
20 There is a web service called Edgar. Edgar is a
21 database of SEC filings. What some people don't
22 know is that Edgar, which is tremendously useful
23 to the financial and legal services organizations,
24 especially in New York, is that Edgar was started
25 by a volunteer. There was a guy named Carl

1
2 Malamud who just started putting SEC filings
3 online. He decided that this was information the
4 public should have and he was going to share it
5 with them. Nobody knew at the time how crucial
6 this information was. Nobody knew how useful it
7 was and how vital to the daily business lives of
8 so many companies that this information would be.
9 He ran it for two years just for free because this
10 is what he wanted to do. He kept saying to the
11 SEC that I'm doing your job for you. I'm giving
12 people this information that you should be giving
13 them. The SEC said thank you, keep on doing it.
14 He said you should be doing this. At some point,
15 he decided that he had had enough, that he
16 couldn't just keep on running this service. So he
17 put a notice out to all his users and said he was
18 turning it off. If you want this service to
19 continue, call the SEC. So many people sprang up
20 and called the SEC and said they needed the
21 information and they used it every day that ten
22 years later this website is still running. People
23 are still using this information. It turns out
24 that people need this information. Other people
25 want to give it to them but all they need is a

1
2 little bit of help from the government to give
3 them the data and enable them to take that first
4 step. The second example is an example of
5 something that failed. I have a colleague who had
6 trouble finding schedules for bus service to his
7 Windsor Terrace neighborhood. He tried to write a
8 computer program to grab the data from a city
9 website and send it to people's cell phones on
10 demand. This is a service that I think a lot of
11 people would use because I don't actually know the
12 bus schedule in many neighborhoods and when I do
13 arrive I have no idea whether I'm going to be able
14 to get a bus or not. He was able to find bus
15 service information online, but he was only able
16 to find it in PDF format. He couldn't find it in
17 a standard format that was capable of being
18 processed automatically. So he couldn't just have
19 a computer program grab the bus schedule every day
20 and send it to whoever wanted it on demand. If he
21 had been able to do that, every single one of us
22 would be able to access that data right now from
23 our cell phones whenever we wanted it, even if we
24 don't know we need it in advance, we could have
25 found it and used it. That's a really powerful

1
2 example to me of the difference between that
3 service existing and that service not existing is
4 the availability of the raw data in a format that
5 let's it be automatically processed. The last
6 thing that I'd like to talk about in terms of an
7 example is a website called ridethecity.com.
8 There were two people who met as students of urban
9 planning at NYU. They formed this website called
10 Ride the City. You enter your address. You enter
11 a destination address. It tells you the best way
12 to get from Point A to Point B that is safest for
13 bicycles. The way it does this is by finding
14 streets that have bicycle routes on them, which is
15 really easy information to get. But what would
16 make this website be even more useful and more
17 accurate is if they could take into account
18 bicycle accident statistics so they could actually
19 tell you which streets really are safer, not just
20 which streets might be safer because they have
21 bicycle routes. These are three really good
22 examples of how we take government data and use it
23 in new and innovative ways that frankly I don't
24 see the city coming up with any of these services
25 anytime soon even if we did get a web portal to

1
2 allow us to do it. I think the last thing I would
3 like to address is the issue of cost. We had a
4 gentleman from the city earlier. He testified
5 that reducing call center volume by 10% would save
6 the city some 4 million. I presume he was talking
7 about 311 call center volume. Now, 50% of 311
8 calls are simple requests for information answered
9 from a database of 6,000 entries, 6,000 little
10 facts that most people call about. If this bill
11 were to cause those 6,000 entries to be released,
12 we can turn every computer in New York into a 311
13 service center and save the city the cost of a
14 large percentage of 311 calls. The other thing
15 I'd like to address is he kept mentioning NYC Big
16 Apps, which sounds like a great program. I just
17 wanted to say that in order to implement NYC Big
18 Apps they must be aggregating quite a lot of data.
19 What I'd like to see is that data, because they've
20 already decided that is worth the cost of
21 aggregating. So every piece of data they're
22 putting into NYC Big Apps we should have.
23 Frankly, if they gave us the data, we would build
24 NYC Big Apps for them. We'll build what we need
25 and we won't have to wait for the city to detect

1
2 and fill our needs. NYC Big Apps sounds like a
3 great way to help New Yorkers, but if you give us
4 the data we can help ourselves. I would suggest
5 that we get the data and we get the software code
6 behind NYC Big Apps and we will see exactly what
7 people can do once you give them the ability to
8 help themselves. Thank you, Councilwoman Brewer
9 for your time.

10 CHAIRPERSON BREWER: Thank you very
11 much.

12 PHILIP ASHLOCK: Hi, my name is
13 Philip Ashlock. I'm from a nonprofit organization
14 here in the city called the Open Planning Project.
15 Councilwoman Brewer, I'd like to thank you for
16 inviting me here and for proposing this
17 legislation. I'm going to keep my comments short
18 because most of my points have already been made
19 by others and it's running late in the afternoon
20 and I would like to get back to the Personal
21 Democracy Forum. The Open Planning Project is a
22 nonprofit that builds open source tools to
23 facilitate civic participation and improve civic
24 life in general. We have also tried to make a
25 point of finding models in other cities that have

1
2 been successful for different technology or
3 livability issues and try and propose them in
4 places like New York. One thing that we've been
5 doing recently is looking at all the different
6 instances of 311 services in other cities and by
7 private organizations and companies and have been
8 creating what this legislation would refer to as a
9 volunteer consensus body around open 311, it's
10 open311.org, which we just set up. One point I
11 would like to make about the use of the word open
12 since it's so vague. There's really sort of two
13 parts to openness. There is transparency and
14 there is participation. In developer's terms
15 that's read/write. What's really interesting
16 about the Big Apps project that's been proposed is
17 that it's modeled on the Apps for Democracy
18 contest that's been held in Washington, D.C.
19 There have actually been two of these Apps for
20 Democracy contests. The first one was held last
21 year and it was solely a read-only model where it
22 was using existing data to sort of prove the
23 importance of transparency. They are currently
24 holding another one which ends in two days, based
25 around Washington, D.C.'s open 311 API. That's a

1
2 read/write API, so it's transparent and it's
3 participatory which means that citizens not only
4 can see the information that's been put into that
5 system, but they can also add to that system on
6 their own. That's one point I would like to make
7 about the meaning of openness. Otherwise, I think
8 I'm just going to run through some brief examples
9 of how we've encountered open data in city
10 agencies. I was actually asked to come here based
11 on some experience at our organization and
12 experiences some of my colleagues have had outside
13 the organization and within the organization
14 dealing with the MTA. Now, I understand that the
15 MTA is not necessarily under the purview of the
16 city but I think that the experience was
17 representative of other agencies. Just to give
18 you some background of how MTA's scheduling data
19 is made available, as was just brought up the
20 usefulness of that. Currently there are only two
21 places that I know of where bus schedule
22 information can be received in an electronic web-
23 based application and that is MTA.info and Google
24 Maps. The way Google Maps gets this information
25 and the same way anyone else would get this

1
2 information is by contacting MTA and they would
3 provide a compact disc of the data. The reason
4 they provide a compact disc is it helps them track
5 the information and which organization or private
6 entity has received that data. I don't completely
7 understand the reason they need to track that
8 data, but that is why they do that. Because it's
9 on a compact disc and not in an automatic delivery
10 system that request has to be remade any time each
11 schedule change has been made. Consequently,
12 whenever the MTA changes a schedule, Google has to
13 submit another request for a compact disc. Then
14 they receive that compact disc and they have to
15 translate it into another form. If you look for
16 schedule information on Google Maps it usually
17 takes a week or two for it to come back up to
18 date. That is one good argument for providing it
19 an automatic structured format. Another is just a
20 very simple example of accessing 311 data. It is
21 actually possible in an automated way to get 311
22 data that's been submitted to the system, except
23 for the fact that they put a firewall to accessing
24 that data through aCaptcha which is a typical way
25 of preventing spam from getting in a forum. Do

1
2 you know what aCaptcha is? Now, aCaptcha is
3 typically only used to prevent spam from malicious
4 data being written onto a server. They're using
5 aCaptcha specifically to prevent you from reading
6 the data in an automated way. There is nothing
7 malicious you can do. They're allowing humans to
8 read it, just not a machine. Another piece of
9 information that I actually don't have very many
10 detail about is the NYP used to provide crash stat
11 data and I could be wrong about this but I've been
12 told that they no longer provide that. So these
13 are three cases where there is data that is
14 available in an automated electronic way but are
15 intentional means of preventing that from being
16 available to the public. Just to keep it short, I
17 will leave it at that.

18 CHAIRPERSON BREWER: That was three
19 fantastic examples and three fantastic
20 testimonies. I appreciate it because it will help
21 us as we try to negotiate this bill. It will help
22 us explain to the public because I think people
23 don't understand. I think what bothered me the
24 most with the administration's testimony is
25 thinking that the public knows what they want.

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2 The public can only be empowered if they have the
3 data to use in a way that you all described.

4 There is so little understanding of government
5 unless you really need government and then you do
6 find it helpful hopefully. But it would be great
7 for us to empower people to use government in a
8 different way as you described. I think that's
9 what the glory of the internet is and that's what
10 we should be using. Are there any specific
11 comments you have on our bill that you would
12 change in any way? That would be the only other
13 question I have.

14 PHILIP ASHLOCK: I have one which
15 is in response to the representatives of the
16 administration who were commenting on the 3
17 billion pages of archived documents that would
18 need to be scanned. It does take a lot of time to
19 scan documents, but there are a plethora of
20 institutions, not just in the New York area but
21 all over the country that would love to help
22 contribute to that effort if there was something
23 from the city to make sure there was nothing
24 sensitive that was being digitized. Archive.org
25 is a perfect example of that and they have a very

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2 sophisticated, refined way of scanning documents
3 in a very quick way. I would suggest that if it
4 would help alleviate those concerns and it take
5 past the 2013 deadline to convert those 6 billion
6 pages, that if each agency was continuously in the
7 process of achieving that goal past the deadline
8 that there would not be a penalty. If they were
9 being provided with every means to help achieve
10 that goal, then I think that that should fit under
11 the compliance.

12 CHAIRPERSON BREWER: I mean
13 certainly we would play with the deadlines. We
14 were really clear that issues that are easy to
15 deal with, low hanging fruit go now and then work
16 on those that are more complicated. We were
17 really clear in the legislation. Does anyone have
18 other comments about the bill?

19 JAMES VASILE: The only other thing
20 that I would liked to have seen in the bill would
21 have been a clear statement as to the lack of
22 assertion of any copyright over the data that
23 comes out of this process. Right now in San
24 Francisco there is a bit of an argument over who
25 has the right to publish Muni arrival and

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2 departure times. A company was hired to process
3 some data for the city and provide the public with
4 this information. They're quite upset that the
5 public is now using that information and
6 publishing it and chopping it up and managing it
7 for themselves. What I would like to see is an
8 avoidance of that argument here in New York, to
9 make it really clear that the city is neither
10 asserting any control over this data or going to
11 permit anyone else to assert control over this
12 data.

13 CHAIRPERSON BREWER: The issue is,
14 of course, the public will see the original
15 document because that's always there. So you can
16 always see what that was and if it's changed, the
17 public can see the original document. To me that
18 would be pretty clear. Thank you very much for
19 your testimony and enjoy the rest of Andrew
20 Rasiej's Conference. The next panel is Chris
21 Keeley from Common Cause, DeNora Getachew and
22 Rachael Fauss from Citizen's Union and Joshua
23 Breitbart from People's Production House. Whoever
24 would like to go first can go right ahead.

1
2 CHRIS KEELEY: Good afternoon,
3 Chair Brewer and members of the Committee on
4 Technology in Government. Thank you for the
5 opportunity to speak here today. My name is Chris
6 Kelley. I'm an associate director with Common
7 Cause New York. Common Cause is a government
8 watchdog organization, nonprofit citizens' lobby
9 and leading force in the battle for honest and
10 accountable government. Again, thank you for this
11 opportunity to speak here today. We see this in a
12 lot of ways as a very, very strong improvement of
13 the already groundbreaking law that the chair
14 sponsored a few years ago, Local Law 11. This is
15 really taking that up another notch in a very
16 important way. That bill's stated intention was
17 to position New York City as leading the nation in
18 using information technologies to improve the
19 efficiency and accessibility of municipal
20 government, and using the internet as a powerful
21 means of accomplishing these twin goals. Clearly,
22 Intro 991 fits into that framework. Common Cause
23 testified on Local Law 11 in February and we'd
24 like to revisit a few of those recommendations we
25 offered then. The first of which is that we

1 suggested that Local Law be amended to include
2 data quality standards. At this point we see that
3 the current Intro before us requiring DoITT to
4 issue a record policy and technical standards no
5 later than January 4, 2010. Centralizing these
6 standards under DoITT as opposed to requiring
7 greater flexibilities with different agencies to
8 do it we think is a valuable step. Having
9 standards across the board is a very important way
10 for those sorts of information to be compatible
11 with one another because there is going to be
12 information from HPD and DCA that are both going
13 to want to interrelate with one another and having
14 those standards across the board are very
15 valuable. Also in February we urged the Council
16 to mandate that Local Law 11 establish
17 administrative mechanisms allowing individuals to
18 seek and obtain correction of information
19 disseminated under that law. It doesn't seem that
20 it's in this bill and that's something that we
21 would encourage DoITT to include in the policy
22 standards. That a way for individual New Yorkers
23 as they're using this information, if they notice
24 inconsistencies, if they notice problems with it,

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2 having a defined mechanism for them to maintain
3 that dialogue with the city so as to not lose
4 track of that real relationship that is going to
5 be developed through this sort of proposal. Also
6 in February, we urged the Council to require all
7 agencies to report annually on the number and
8 nature of complaints received. Similar to the
9 last recommendation, we think that that's
10 something that should be the standards put forth
11 by DoITT that in addition to having that back and
12 forth dialogue we need to make sure that that is
13 available for everyone to understand what sort of
14 shortcomings people are experiencing so that we
15 can have a full public discussion about how to
16 address them. In addition to those three that we
17 outlined in February, I'd like to touch on a few
18 more recommendations. First and foremost, as
19 we're talking about having that sort of dialogue
20 and bringing New Yorkers into the process and
21 understanding what the government is about, we
22 think that a draft of the technical standards
23 manual put forth by DoITT should be made available
24 to the public before its final issuance in January
25 of 2010 so that we can have that discussion to

1
2 make sure that those standards are going to be
3 setting up a framework where people can really be
4 using this information in a valuable way. In
5 addition, the definition of record, while it does
6 seem very encompassing, it seems very broad.
7 Records includes information in any physical form
8 whatsoever that is kept, held, filed, produce or
9 reproduced with or for any agency. Then it goes
10 on to say including but not limited to and it
11 delineates quite a few different types of
12 documents. Just one other one in there that if we
13 are going to be delineating them, we'd encourage
14 video, web casts. We'd encourage those sorts of
15 records to be included also because largely under
16 the leadership of this committee, it seems that
17 that's a direction the city might be going in the
18 long term and that's something we'd want to make
19 sure doesn't get lost in the shuffle here before
20 that's the case. So, again, Intro 991 is a great
21 step forward for the City of New York. We do hope
22 that it is adopted. I'd like to touch on a few
23 quick little points from the prior testimony.
24 We've talked about other agencies being included.
25 The EDC was one of them and the Board of

1
2 Education. One other one that maybe some of my
3 colleagues here at the table would also like to
4 see in there is Board of Elections. In thinking
5 about other entities that aren't often subsumed by
6 these sorts of rules, Board of Elections would be
7 one of them. As far as the framework for talking
8 about it as a customer relations issue, we think
9 that primarily we're New Yorkers, not customers,
10 and that we should be thinking about this as our
11 right to know this information, our right to have
12 access to this information. It shouldn't be
13 thought of as a consumer/supplier sort of
14 situation, but it is the public's information so
15 it's our responsibility we think collectively to
16 think through now to provide that in full. One
17 other thing that came up in the testimony from
18 Local Law 11 in February, and it seems to have
19 been touched on again with the administration
20 today, is the email subscriptions and talking
21 about that as one way to stay in touch. Chair
22 Brewer, you raised the question about RSS feeds.
23 It seems that this was the second hearing in a row
24 that we've been talking about this sort of
25 government data availability and the

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2 administration has had some very clear, if not
3 misunderstandings, they certainly could use a
4 brush up on RSS technology. By no means is that
5 my area of expertise, but I'm sure there are a few
6 dozen people that have been through this room
7 today that would be able to sit down and have a
8 conversation with them about the value of that and
9 help them think through creative ways to do it.
10 That's disturbing that it was four months later
11 and we're still sitting here without, it seems, a
12 very clear understanding of an RSS feed could
13 offer in this sort of scenario. Once again, thank
14 you for your time.

15 CHAIRPERSON BREWER: I think Board
16 of Elections is state, otherwise I would agree
17 with you. I mean that's the same problem we have.
18 I can't do anything about that. I think DoITT
19 understands RSS. The gentleman was not from
20 DoITT, but I appreciate that. Thank you.

21 DENORA GETACHEW: Good afternoon,
22 Chair Brewer, and other members of the Committee
23 in Government. My name is DeNora Getachew and I'm
24 the Director of Public Policy and Legislative
25 Counsel for Citizens Union of the City of New

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2 York, an independent nonpartisan civic
3 organization of New Yorkers that promotes good
4 government and advances political reform in our
5 city and state. I am joined by my colleague
6 Rachael Fauss, our Research and Policy Associate
7 who is going to talk to a little bit more of the
8 technical components and I'll talk to more of
9 transparency and accountability of government
10 components of the bill.

11 CHAIRPERSON BREWER: You're welcome
12 to summarize.

13 DENORA GETACHEW: I'm definitely
14 going to summarize. As a matter of fact, I'll
15 turn it over to Rachael and she can go through the
16 technical stuff.

17 RACHAEL FAUSS: We definitely
18 support Intro 991's singular web portal.
19 Obviously we all know what would mean in the bill,
20 so I'm going to skip ahead here. The bill does
21 not specify where on nyc.gov or a successor site
22 the web portal would be housed or what agency
23 would be responsible for maintaining the website.
24 Given that we've testified on Local Law 11 before
25 and we know how the Department of Records has

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2 responded with Local Law 11, we think that they
3 have some practical experience with implementing a
4 bill that requires them to work with other
5 agencies and to collect data, so we think that
6 they could be perhaps a potential site.

7 Obviously, something improved and better would
8 always be welcomed. Whatever agency or agencies
9 are ultimately responsible for maintaining the
10 portal, we recommend that sufficient resources and
11 staffing be provided to ensure that records are
12 posted in a timely manner and that staff have
13 appropriate technical expertise. DoITT should
14 play a major role in the development of the
15 website to make it as user friendly as possible.

16 We support a lot of the more technical aspects of
17 the bill. Specifically, web syndication
18 technology, requiring records to be presented and
19 structured in formats that permit automatic
20 processing, not having restrictions on access or
21 use of documents. I'm just going to touch on why
22 RSS is an important thing. It let's the public
23 know immediately of what documents are posted that
24 would be of interest to them. Similar to how they
25 would subscribe to news feeds when they want to

1
2 know the latest breaking news. We really feel
3 that timely access through this type of technology
4 can let the public weigh in on important decisions
5 when they need to at that moment so they can
6 effectively hold government accountable. Formats
7 that allow for processing, such as CSV, will let
8 users more easily process and analyze government
9 documents by allowing them to create programs
10 which can analyze trends and look at changes in
11 spending or conduct other types of analysis. Just
12 as a little side note, Citizens Union Foundation,
13 our sister organization, publishes Gotham Gazette,
14 which is an online news source. They would love
15 to have this kind of access to information. They
16 would be one of those types of organizations that
17 would want to create the programs to process the
18 information and provide it to a wider group of New
19 Yorkers.

20 CHAIRPERSON BREWER: Every reporter
21 would love to have this information.

22 RACHAEL FAUSS: Absolutely. We
23 also support that there not be proprietary
24 requirements and registration requirements. On
25 the technical standards and internet record

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2 policy, we support the creation of a technical
3 standards manual through the consensus approach
4 that's lined out in the bill. But we believe that
5 there should be greater specificity regarding the
6 selection of voluntary consensus body standards
7 and most importantly the public process for
8 weighing in on standards. It's not clear in the
9 bill whether DoITT would be using preexisting
10 standards or developing new standards in
11 consultation with voluntary consensus bodies. If
12 the intent is to use preexisting standards, we
13 believe that there should be specifically in the
14 bill an opportunity for the public to comment on
15 the use of preexisting standards. If new
16 standards are to be developed, we believe that
17 there should be more transparency about how
18 voluntary consensus bodies are selected because
19 the composition of such bodies is crucial to
20 ensuring that there is a broad base of
21 stakeholders represented. While we don't think
22 that there should be a mandate of who should be
23 around the table in developing standards, the bill
24 could require DoITT to report on the reasons for
25 choosing particular consensus bodies.

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2 Additionally, throughout the entire process, if
3 new standards are developed, we believe that there
4 should be the opportunity for general public
5 comment throughout the process.

6 DENORA GETACHEW: I'll just
7 summarize some of our concerns with respect to the
8 agency compliance plans and how we can make this
9 more transparent, along the lines of what Rachael
10 talked about. We do support that there be rollout
11 periods for different classifications of records
12 because we understand that there might be some
13 records that are difficult or complex that can't
14 be put online immediately. We do recommend that
15 there are ways to ensure that the agencies have
16 appropriate resources and tools to meet the
17 requirements of the bill and make sure the
18 classifications are clear so that the agencies
19 don't avoid posting things online because they
20 classify them as things that are just too hard or
21 too complex to do. We want to make sure, again,
22 that the purpose of this is for New Yorkers to be
23 able to access information and there are not
24 impediments to them being able to do so. We would
25 also recommend that the Council consider amending

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2 the bill to create mechanisms to allow for greater
3 evaluation of this implementation. Specifically,
4 this could be in the form of an annual report
5 compiled by agencies, including their statistics
6 on the numbers and types of records available
7 online, the number of hits they've received on the
8 web portal and other issues related to
9 implementation. As the Mayor's Office said, they
10 want to know what users want and this is one way
11 to make sure that they know what users want and
12 what kind of information they should be posting
13 online. We would also recommend that the bill
14 require DoITT to hold a public hearing to assess
15 the user friendliness of the web portal, solicit
16 recommendations for how to improve the site and
17 evaluate the timeliness of record posting. Again,
18 we thank you for the opportunity to testify on
19 this legislation. We hope that you will work to
20 move forward with it.

21 CHAIRPERSON BREWER: Thank you. I
22 think one of the ways that this could be
23 evaluated, which is sort of what you're saying is
24 through CoPIC, which is the Commission on Public
25 Information and Communication. About six of us

1
2 know what that is. The point of the matter is
3 that would be a good tool to get public evaluation
4 and public input. Joshua, you wrote a lot. Are
5 you going to summarize?

6 JOSHUA BREITBART: I'm going to
7 summarize my summary.

8 CHAIRPERSON BREWER: Oh good.

9 JOSHUA BREITBART: My name is
10 Joshua Breitbart. I'm the Policy Director for
11 People's Production House, which provides young
12 people, immigrants and low age workers with a
13 comprehensive media education for the information
14 age. This is a great bill. I want to thank the
15 Chair, the committee staff and your staff for
16 working on it. I discuss four areas in the
17 written testimony where I think this would have
18 positive impacts, including journalism, broadband
19 adoption, government efficiency and quality of
20 life. You just had the exchange about journalism
21 and I think government efficiency and quality of
22 life. I want to talk about broadband adoption
23 just briefly. People's Production House spurs
24 broadband adoption by showing people how they can
25 use the internet to build community and improve

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2 their lives, especially through digital media
3 production. This bill supports that strategy and
4 we believe it would stimulate demand for broadband
5 in our city. Policy makers now widely understand
6 that compelling content is key to increasing
7 broadband adoption, but some still approach it as
8 if they're adding more channels to a television.
9 The internet is a two-way medium. The power comes
10 not really from the ability to find what you're
11 looking for, but from the ability to shape what
12 you find. Having open data standards makes that
13 possible. The bill paves the way for what DoITT
14 referred to as value demonstration in its recent
15 request for information on broadband adoption
16 programs. It's identified broadband adoption as
17 the key for getting universal broadband in the
18 city. So I think that this bill really would
19 contribute to that. I commend DoITT for the way
20 it already presents data to the public in
21 interesting and useful ways, such as NYC State and
22 NYC City Map. They're cool websites, except that
23 the DoITT way is only one way. As much customer
24 research as they do, when they're coming out with
25 this one application, it's just one application.

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2 We saw an example of that before when the
3 Assistant Counselor to the Mayor said that they
4 put it into plain English, which I understand is a
5 turn of phrase, but what is plain English to you
6 might be Greek to me. Obviously talking about
7 plain English makes that clear in terms of what
8 New Yorkers need to understand something, it needs
9 to be translated into a variety of languages and
10 styles. I think current best practice in the
11 field of broadband adoption programs acknowledges
12 that different communities, even if they want the
13 same information, want it in different forms.
14 That's obvious if you think about it in public
15 health terms. You wouldn't use the same AIDS
16 awareness advertisement if you want to reach
17 teenagers, adult African American men, sex
18 workers, different communities, even though the
19 underlying piece of information that condom use
20 prevents the transmission use of HIV might be the
21 same. This bill takes that lesson to a grander
22 scale, giving all New Yorkers greater ability to
23 learn and share essential information about our
24 city, expressing it on our language neighbor to
25 neighbor and deputizing us in public education

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2 campaigns. We heard many examples of what that
3 could be. The bottom line is we can't really
4 predict the applications that the mass imagination
5 of the city would come up with compared to a much
6 smaller number of smart people who work at DoITT.
7 I have a couple of suggestions that I feel might
8 strengthen the bill. The gentleman from Open
9 Planning Project, as well as from the State
10 Senate, talked about the need for application
11 programming interface and having open APIs that
12 makes it read/write. I don't know if this is a
13 current problem with New York City government
14 websites, but federal government websites up until
15 last year had a problem with not being indexable
16 and searchable through commercial search engines.
17 The Center for Democracy and Technology produced a
18 report on that called, "Hiding in Plain Sight".
19 Because essentially you could navigate to all this
20 information, but if you Googled for it, you'd
21 never get the federal government's information. I
22 believe that was corrected in the E-government
23 Reauthorization Act in 2008. Again, it's just a
24 way of providing information to people where they
25 are and not making them come to the government

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2 website to find it. Also, I've spoken to this
3 committee about the importance of mobile
4 technology and I think it's important that the
5 bill references that. I think that putting it
6 into a mobile accessible format is one thing that
7 volunteers or developers would do very quickly if
8 the material was available in the raw data format
9 and if there were APIs for it. But just to
10 reiterate the issues, the Pew Internet and
11 American Life Project has shown that disparate
12 broadband adoption and personal computer use in
13 the home, much less pronounced on mobile devices,
14 African Americans and Latinos in particular are
15 avid users of mobile devices for non-voice data
16 applications. This bill would support delivery of
17 city government information to mobile devices and
18 as a result to African Americans, Latinos,
19 seniors, young people, non-English speakers,
20 people with physical disabilities and practically
21 every group that suffers from a digital divide.
22 Based on that, People's Production House strongly
23 thanks this committee for taking up this issue.

24 CHAIRPERSON BREWER: Thank you all
25 very much. How do you think that the RSS would

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work? Is that something that other cities are doing? I know you mentioned Philadelphia and Washington, D.C. in your testimony but I feel really strongly that people need to get information when it's current. When you talk to Washington and to Philadelphia, not only in terms of information being current, but are there other ways that they're looking at this data and improving on it in terms of what they provide now? In other words, are they doing what we're suggesting even though not legislatively?

JOSHUA BREITBART: I'll just speak about Philadelphia. I just came last week and I'm going back tomorrow for meetings about the citywide collaborative application for the Broadband Technology Opportunities Program. This issue of open data standards came up there and it actually came out of the Economy Recovery and Jobs Working Group. It was exactly the electronics store example that you liked so much from before was exactly what they were thinking because there was a gentleman there from a neighborhood small business administration saying if we could have access to this kind of market information it would

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2 help us in sustaining small businesses. It would
3 help entrepreneurs. They were thinking about it
4 very much as an economic stimulus engine in
5 addition to promoting tech startups and
6 transparency means and these broadband adoption
7 programs. With respect to RSS, as Chris said, we
8 heard from the Records Department on the Local Law
9 11 hearing. It's critical and it allows each
10 agency to publish to its own website but have a
11 single city portal, but also have that people can
12 extract that information from whatever flood of
13 city information that we're getting. RSS is
14 absolutely a critical technology.

15 CHAIRPERSON BREWER: How about this
16 issue of easy to understand? The administration
17 used that endlessly. To me that has, as you
18 suggested, different meanings to different people.
19 Does the bill approach it correctly? What do you
20 think about that easy? You could get caught in
21 process is what I worry about.

22 RACHAEL GAUSS: I think there's a
23 place for plain English and there's a place for
24 raw data. I don't think they're mutually
25 exclusive.

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2 CHAIRPERSON BREWER: That was a
3 good answer to that question. Thank you very much
4 for your testimony. The next panel is Frank
5 Hebbert from RPA, Thomas Lowenhaupt and Silona
6 Bonewald. This is the second to last panel.
7 Thank you, go ahead. Tom, go ahead.

8 THOMAS LOWENHAUPT: First, I'd like
9 to thank you for having this wonderful hearing.
10 I'm going out a much more educated person about
11 the issue. I'm Tom Lowenhaupt, the found of
12 Connecting.nyc Inc., a New York State not-for-
13 profit created to educate New Yorkers about the
14 internet. The central organizing force behind our
15 work is the .nyc Top Level Domain. Think of .nyc
16 as being like .com, .org, or .gov, but just for
17 New York City. Connecting.nyc traces its roots to
18 the Internet Empowerment Resolution passed by
19 Queens Community Board 3 on April 19, 2001. I was
20 then a member of the community board and back then
21 we advanced the concept of Open Data through the
22 use of a Creative Commons license for our
23 Community Board's website. And our Internet
24 Empowerment Resolution envisioned using the .nyc
25 Top Level Domain as the organizing force for New

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2 York City's digital resources. My goal today is
3 to alert the Council to the advantages of using
4 .nyc as part of the Open 311 and Intro 991
5 initiatives. Basically stated, .nyc provides an
6 unlimited number of names that might be used to
7 identify digital resources. This includes data
8 acquired as part of the city's 311 operation as
9 well as all other databases. The naming of
10 databases is just one example of the naming power
11 of the .nyc TLD. It extends to assigning digital
12 names to objects not normally seen as part of the
13 digital world. For example, by naming every piece
14 of street furniture, ever bench, light post, fire
15 hydrant, tree, et cetera, the .nyc naming system
16 can become a programmer's dream, leading to a more
17 accessible and friendly city for both residents
18 and visitors. It's part of a transition to what's
19 called The Internet of Things. And beyond the
20 local, the Geneva-based CORE is advancing a common
21 naming standard amongst global cities that would
22 allow for closer cooperation and coordination
23 between the world's great cities. While the ICANN
24 continues to ponder the process for activating
25 .nyc, New York City can begin utilizing .nyc in

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2 the public's interest as infrastructure for
3 assigning intuitive human readable names to its
4 digital resources. I thank you for your
5 attention.

6 CHAIRPERSON BREWER: Thank you.

7 SILONA BONEWALD: First of all,
8 thank you so much for allowing me to attend. My
9 name is Silona Bonewald and I'm with the League of
10 Technical Voters. I'm actually from Austin,
11 Texas. I'm also here for the PDF conference as
12 well. One of the things that I was asked to talk
13 about is one of projects which is called Cit
14 Ability, citability.org. Basically what we're
15 asking is that all publicly available government
16 documents be on the web and citable to a paragraph
17 level. We have a pretty simple solution that's
18 outlined on our website which is basically the
19 domain plus the path plus the document name
20 creates a unique identifier. You then data/time
21 stamp it and allow people to walk through it on a
22 paragraph basis. One of the interesting things
23 that happens with that is earlier I heard people
24 talking about figuring out the ontology of terms
25 so that people can find things or figuring out how

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2 to make all of those 6,000 different FAQs for 311
3 available to the public. If you were to go and
4 give all of those this unique identifier that's
5 easily readable, then people can go and use that
6 link on their blog post, on other commentary and
7 all of it would be searchable on the internet.
8 You would have search engines like Google and Bing
9 and all of those actually figuring out those
10 ontologies for you. You wouldn't have to worry
11 about any of this other technology just by using a
12 very simple standard at the very beginning with
13 the URL. So I would highly suggest looking at
14 citability.org, going to the wiki and seeing the
15 different papers. I've been talking with the New
16 York Senate about this, recovery.gov and actually
17 the French government. They're all interested in
18 doing this piece. Thank you.

19 CHAIRPERSON BREWER: Thank you very
20 much.

21 FRANK HEBBERT: My name is Frank
22 Hebbert. I'm the Manager of Geographical
23 Information Systems at Regional Plan Association,
24 a nonprofit research planning organization serving
25 the greater New York region. As a research

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2 organization, we strongly welcome the proposals
3 and the Introduction. Information created and
4 released by City agencies is vital to planning and
5 advocacy work. For non-profit and other community
6 organizations, availability of data is often the
7 limiting factor on what you can do. The central
8 data portal in Intro 991 will make it easier to
9 obtain information and to respond more accurately,
10 speedily and efficiently on issues affecting the
11 city. I'm going to skip over the benefits of open
12 government and innovation in the testimony because
13 I think other people have covered them very well.
14 A couple of sort of suggestions and comments that
15 we have is we think Intro 991 could go further on
16 geographic data. It does not make specific
17 provisions for greater sharing of currently
18 unavailable geographic data. The definition of
19 Record in Article 23-301 includes prepared maps.
20 We suggest that the data could be more specific in
21 opening up existing map services created and
22 maintained by the city. Giving unrestricted, free
23 access to all map data in common digital map
24 formats could be transformative. We also think
25 you could be more specific on data formats, so

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2 that the definition of ' raw and unprocessed' could
3 perhaps be strengthened. I know it's been
4 discussed a lot already today. But it's that data
5 in machine readable and completely disaggregated
6 that's absolutely essential for future flexibility
7 and innovation in use that could be over the
8 horizon and we can't necessarily predict today.
9 We welcome the use of consensus standards for
10 formats, and we urge that formats used be
11 nonproprietary. We think that the D.C. Office of
12 the Chief Technology Officer has a very good lead
13 sort of case study I think that you could look at
14 as a sort of baseline of minimum requirements for
15 system designed, particular the variety and
16 methods of data formats that they make available.
17 Thank you.

18 CHAIRPERSON BREWER: Thank you.
19 How is Texas doing? Are they providing data?

20 SILONA BONEWALD: Well, I'm very,
21 very happy that you all are doing what you're
22 doing and I hope that it serves as an example to
23 my home state.

24 CHAIRPERSON BREWER: That's what I
25 thought. I just wanted to ask. In terms of RPA,

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2 because you certainly have a great reputation and we
3 all know that this data would be helpful to you
4 because you take it and you do great things with
5 it. Tell me just a little bit about what D.C.
6 provides as opposed to what New York does not now.
7 I mean I'm most familiar with the City Planning
8 Commission which I find challenging here in New
9 York. Second, I am dying to get the environmental
10 impact statements up online. I don't know if
11 everybody knows what they are. I have to deal
12 with developers all the time. The data sits on
13 somebody's shelf for god knows how long and I
14 don't even know what happens to them. I guess
15 they're somewhere at City Planning. Apparently
16 one library per borough, if you're lucky, gets
17 one. This would be a wealth of material. Those
18 two as an example, is that something that D.C.
19 provides? How is it a challenge here versus D.C.,
20 et cetera?

21 FRANK HEBBERT: I think the reason
22 for bringing up the D.C. example was just the
23 structuring of the data portal, some of the ways
24 they make information like building permits and
25 works permits available in a variety of both.

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2 There is a feed and also as a map file. It's
3 impressive. I don't think that it's a complete
4 example necessarily for some of the things you're
5 referring to and definitely not a complete example
6 for map data. There is a lot of potential with
7 Land Use data that the city currently only makes
8 available in licensed forms. It could be open
9 here.

10 CHAIRPERSON BREWER: I assume you
11 use EIS data or even DEIS data. Is that something
12 that you can get online now? Or is it only when
13 you got to the developer or to the city or
14 library?

15 FRANK HEBBERT: We can obtain
16 specific data for projects, but it tends to be
17 licensed for the use on that project. So that
18 limits us in further research.

19 CHAIRPERSON BREWER: Having EISs
20 online would be really helpful. Would you agree?

21 FRANK HEBBERT: Correct.

22 CHAIRPERSON BREWER: Thank you all
23 very much. That's really helpful. Our last panel
24 is Ben Woosley [phonetic], Andrew Brust and Jay

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2 Sulzberger. Sergeant, he does have a prepared
3 statement.

4 JAY SULZBERGER: Who's our third?

5 CHAIRPERSON BREWER: It doesn't
6 matter; whoever is here, Jay.

7 ANDREW BRUST: Good afternoon. My
8 name is Andrew Brust. I'm the Chief of New
9 Technology at twentysix New York. We're a
10 consultancy specializing in application
11 development, business intelligence and other
12 software technologies. I am also a native New
13 Yorker and a former technology professional with
14 the City of New York. In the mid and late 1980s,
15 I was a programmer for the Department of Parks and
16 Recreation and later I was the Computer Systems
17 Director at the Department of Cultural Affairs.
18 I'm sure you can understand that given my career
19 history and my current position, I have great
20 interest in this legislation. The language in
21 Intro 991 seems to speak implicitly to a number of
22 important features, advantages and a technology
23 premise for the City's data sharing platform. But
24 a number of these points deserve to be called out
25 explicitly, so I hope it's okay that I do so

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2 briefly here. Beyond those points, there are just
3 a few extras that I wanted to touch upon. My
4 first one was on raw data, so I think we've
5 covered that in droves. I don't need to repeat
6 it, but what I would say is that if agencies want
7 to build a more end user application on top of the
8 platform, that should be fine but that shouldn't
9 really be the priority. The priority should be
10 the platform. If the data is provided in the
11 right format, then transformation of it from
12 machine-readable to human-readable should be
13 almost trivial. Today, the Atom Syndication
14 Format, which is a particular schema within XML,
15 is a common format for arbitrary, structured data
16 and it can be rendered in human-readable form by
17 most modern web browsers. The Representational
18 State Transfer, or REST, standard is arguably the
19 most popular service protocol for allowing such
20 data to be queried. And so I would certainly
21 recommend that Atom and REST be supported. But
22 the reality is that there are other formats. I've
23 listed some of them in my testimony. I don't
24 think I need to read through all of them. But
25 ultimately, there are going to be a number of

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2 formats currently and a number of formats that
3 have yet to emerge and it's going to be important
4 to support all of them. The way to do that of
5 course is to put something into a good kind of
6 standard unified format and then have a platform
7 where that format can be easily transformed into
8 other formats through XML technologies or others.
9 It might also be worth considering that the system
10 should allow writing data, in addition to reading
11 it. City residents should be able to submit a
12 tennis permit request through this platform, pay a
13 parking ticket, or even a water bill, or a City
14 income tax bill. City natives should be able to
15 request a copy of their birth certificates, and
16 numerous other submissions should be accepted in
17 addition to mere queries for information. Back on
18 the reading side, users and systems should be able
19 to retrieve non-structured data, including
20 archival photographs of specific city lots, maps,
21 titles and deeds, audio from major speeches made
22 by the Mayor and video of Council meetings and
23 hearings as well. Ultimately this could make up
24 for the loss WNYC-TV. The fact is that Channel 31
25 was a video authority of record and the loss of it

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2 has been significant. The data platform
3 contemplated by this bill, if it supports rich
4 media in addition to textual data, could bring
5 about services that fill the gap from when WNYC
6 was sold off, and it go well beyond what linear
7 TV, broadcast television can do. Beyond the
8 formats, protocols and contents that are produced,
9 this system will require innovations in licensing
10 as well. There was some mention of this
11 previously. The availability of the data that
12 this platform could produce will enable
13 unprecedented analyses, products and services,
14 useful for both commercial and social services
15 pursuits. But to make possible a number of
16 different query and data visualization services,
17 applications will need to cache, aggregate, slice
18 and dice the system's data. To do so, they will
19 need to stage the data in local or hosted
20 databases and the city should expressly permit
21 this so as not to impede the innovation that would
22 result. Beyond a permissive regime around the
23 availability of the data, the city will also need
24 to allow companies to make a market, and to charge
25 for the value-added services they build on top of

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2 the public platform. Certainly, companies should
3 not be charging for the mere redistribution of the
4 data, but they should be permitted, indeed
5 encouraged, to build user-friendly front ends,
6 interesting "mashups," innovative analyses, and
7 inventive integrations of the platform's data.
8 Google Maps should be able to show where the big
9 potholes are. Zagat should be able to indicate
10 which restaurants have a sterling Health
11 Department inspection record. WebMD should be
12 able to create heat maps showing which
13 neighborhoods are hardest hit by an epidemic. And
14 the New York Times ought to be able to indicate
15 which boroughs and neighborhoods are getting the
16 most, or least, arts funding. Retail
17 consultancies should be able to show which
18 precincts are best and least served by certain
19 types of shops. Tourists should be able to see
20 where the cheapest hotel rooms are and where the
21 most availability exists. Members of this
22 Committee should be able to see how well Verizon
23 is living up to its commitment to deploy FiOS
24 service to all areas in all five boroughs.
25 Children's Aid Society should be able to

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2 illustrate where concentrations of child
3 homelessness and abuse exist. Food for Survival
4 should be able to show which ethnic, geographic,
5 economic and age groups are most susceptible to
6 hunger in the city. And none of these
7 organizations should have to stop and wonder
8 whether they are using or republishing the data in
9 some unauthorized form. I'll just kind of skip to
10 a couple more points to keep it brief. The City
11 and its agencies should be permitted to implement
12 the back-end platform for this system as they see
13 fit, whether they do so using Java, PHP, Ruby, C#,
14 Visual Basic or even COBOL. I would imagine that
15 agency implementations would need to be signed-off
16 upon or certified by DoITT, but as long as they
17 produce their output and solicit their input using
18 the correct formats, standards, protocols and
19 interfaces, that should meet the whatever litmus
20 test may exist. I'd like to close on an issue of
21 civic pride. The City of New York is a unique
22 municipal government within the State. Most
23 cities are contained within counties. The City of
24 New York, as you well know, comprises five
25 counties, and provides the services that in other

1 parts of the State are delivered by special
2 districts, incorporated villages, towns, cities
3 and counties. As such, our data standards system
4 should serve as a model for each of these distinct
5 types of government within New York State. So
6 let's not just do this the right way. Let's do
7 this in an unprecedented exemplary, creative and
8 exciting way. Let's make this the time in history
9 when the economy was down, but the great tradition
10 of commerce and ingenuity in the City of New York
11 was nonetheless invoked to bring about innovation,
12 opportunity and a new standard in good government,
13 adopted by other governments in New York, and
14 other states. Thank you for your time.

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16 CHAIRPERSON BREWER: Thank you very
17 much. You're going to be the last speaker, so why
18 don't you come and sit up there. Go ahead Jay.

19 JAY SULZBERGER: I'm not sure what
20 to say. So much has been covered and so much has
21 been said that I wanted to say.

22 CHAIRPERSON BREWER: You can
23 summarize sir.

24 JAY SULZBERGER: Obviously I'm on your side,
25 Gale, on Intro 991. I'll just say a few

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2 sentences. In truth, open standards can only be
3 defended by free software and I won't include a
4 discussion of the mechanism here. Finally, the
5 last thing brought up about the issue of people
6 doing add-ons and everything, if the data is
7 published by the City of New York and it's freely
8 licensed, then indeed if somebody can figure out a
9 way to put something in the front of it and make
10 money off of it, that's what free licensed means.
11 It means that that can be done in addition to
12 being reproduced for no money; somebody can make
13 money off of it by packaging it up. They can't
14 further restrict the actual data of course.
15 Finally, I suggest a solution to the portal
16 problem. The portal can be very simple. If there
17 are 80 agencies, it can be a web page with 80
18 lines and links and that can be the portal. I was
19 a little bit surprised to hear the fellow from the
20 W3C worrying about the portal. If the portal is
21 heavy, ugly and incomprehensible such as
22 SourceForge, the default thing which is almost
23 impossible to use, but if it's more like Google or
24 a single, simple near text web page with a line
25 for every single agency and a link then to the

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2 agencies, that solves it. I believe in portals.
3 There should be a central point. Thanks.

4 CHAIRPERSON BREWER: Thank you,
5 Jay. Just introduce yourself.

6 JAY SULZBERGER: I'm sorry. I'm
7 Jay Sulzberger. I used to do a lot of propaganda
8 with various free software groups. I don't do
9 much nowadays. I've retired to a position as
10 consultant. I guess I'm a hire to some consulting
11 company that does some statistics for HRA.

12 KAYZA KLEINMAN: My name is Kayza
13 Kleinman. I've been with NonProfit HelpDesk,
14 which is a project through the Jewish Community
15 Council of Greater Coney Island for a number of
16 years. I'm not going to date myself.

17 CHAIRPERSON BREWER: The mike is
18 hard to move so she's having trouble moving it.
19 Go ahead.

20 KAYZA KLEINMAN: I think I got it
21 this time. The first administrative testimony
22 highlighted all the problems that we will have in
23 trying to do this. Having heard this kind of
24 thing before, I have to say we shouldn't really
25 let that get in our way.

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CHAIRPERSON BREWER: It won't.

KAYZA KLEINMAN: Knowing you, I don't believe it will. I think a lot of the advantages have been mentioned. I think it needs to be highlighted that the issue of open standards is important not just for citizens but also the data sharing between organizations which is something that I know has been a huge issue that's been talked about more than once. I think it's a really, really important. I think even if we're talking about cost, I think that eventually the cost saving of being able to share data efficiently should help really cut the cost of creating open data standards. If citizens can share them, then certainly other agencies can manage to make use of that data as well. So it's killing two birds with one stone as far as I'm concerned. When talking about accessibility by people, organizations or whatever, I think we really need to keep in mind that whatever goes up there needs to be handicapped accessible. It's something I don't think I heard anybody mention, but I think it's a huge issue. If there is a constituency that really could use the web, it's

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2 people who have handicaps of various sorts,
3 whether it's mobility, visual, et cetera. I think
4 it would be a crying shame not to put that in from
5 the ground where it's a lot easier to design it in
6 than to add it on afterwards. It's a big issue.
7 Another issue that was touched on but I think
8 really wasn't addressed were privacy concerns.
9 I'm concerned in two directions. I keep up on
10 this stuff and many municipalities have used
11 privacy concerns as an excuse to not share
12 important data. I think that needs to be
13 addressed upfront. That's a good reason why there
14 need to be policies and procedures in place.
15 Private data should not be shared inappropriately,
16 and that has to be built into the whole thing from
17 the ground up rather than tacked on later. I do
18 think that there is a place for easy-to-understand
19 formulations of data, but as others pointed out,
20 there are different ways of looking at it. What's
21 English to me is literally not English to someone
22 else. I think that both things need to be done.
23 I think that's been covered and I don't need to
24 get into more detail about that. I would like to
25 make the point about tech neutrality, which was

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2 raised by somebody else. Besides the fact of all
3 of the possible applications that can be built on
4 a tech neutral platform, in terms of
5 accessibility, the more technology neutral the
6 data will be, the easier it will be for people and
7 organizations with low resources to make use of
8 that data. I don't need to necessarily have the
9 latest and greatest machines. If I can get it at
10 a very basic level, then even I can put it turn on
11 a new project on an old machine and do something
12 useful with it. I think that tech neutrality
13 serves a lot more than just the business, it also
14 serves the less enfranchised. I would like to
15 mention two examples that were mentioned in prior
16 testimony of the unexpected things. There is a
17 search engine that's in beta but it's publicly
18 accessible. It's called Wolfram Alpha. Don't ask
19 me why they call themselves that, but it is a
20 fascinating site. You get on there and ask
21 questions and it basically pulls together huge
22 amounts of statistical data to answer questions.
23 But this can only be done if the raw data is
24 there. It couldn't necessarily do it if it just
25 had like the two summaries that somebody in the

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2 city decides on. But if there is all that raw
3 data, the calculations and computations can be
4 done. This is great because nobody has to think
5 in advance about what somebody is going to need.
6 This is a really cool example. The Google Maps
7 mashups are another very good example of the kind
8 of stuff that can be done when data is freely
9 accessible.

10 CHAIRPERSON BREWER: Thank you very
11 much. Andrew, thank you, for all of your
12 background you brought to the hearing. Thank you
13 very much. I do want to say in conclusion that I
14 think everyone agrees that the time is right for
15 open government data. It should be done in the
16 right way and making all public data available.
17 What was interesting about today was that it can
18 be person-friendly in one format and have the raw
19 data at the same time. You have different users
20 with different needs and the fact of the matter is
21 they're compatible. They're not mutually
22 exclusive. I hope that the discussion today leads
23 the administration to understand that we're really
24 serious about this. There is a lot of interest
25 and I think that we can come to an agreement about

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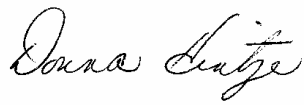
what should be online. Thank you very much. This

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hearing is concluded.

C E R T I F I C A T E

I, Donna Hintze 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 28, 2009