

CITY COUNCIL
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON GOVERNMENTAL OPERATIONS JOINTLY WITH COMMITTEE ON TECHNOLOGY

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HELD AT: 250 Broadway - Committee Rm,
14th Fl.

B E F O R E:

GALE BREWER
Chairperson
FERNANDO CABRERA
Chairperson

COUNCIL MEMBERS:

TECHNOLOGY

GALE BREWER
LETITIA JAMES
G. OLIVER KOPPELL
MARK S. WEPRIN

GOVERNMENTAL OPERATIONS

ERIK MARTIN DILAN
DOMENIC M. RECCHIA JR.
PETER F. VALLONE

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2 [gavel]

3 CHAIRPERSON BREWER: Good morning. I'm
4 Gale Brewer. I'm chair of governmental operations.
5 I apologize profusely. I had three breakfasts and
6 they just went longer than I thought. I started 6:30
7 this morning on breakfast. I just want to let you
8 know. Listening to people trying to be supportive
9 and in one of them there was a, a coffee shop which
10 we all go to on the West side. It's at 90th and
11 Broadway and you walk into it and everybody has an
12 issue from the waiter who needed housing problems
13 to everybody I was meeting with just so you know.
14 So anyway I'm sorry to be late and I apologize
15 profusely and I know that my colleague Council
16 Member Cabrera he's head of the Technology
17 Committee and he's on a way, on his way. So today
18 we're holding a joint hearing on internet voting.
19 The potential benefits of internet voting are
20 numerous including lower administrative costs,
21 easier access, and better ballot design. However,
22 and I emphasize this, the security and technical
23 risks are also numerous from my perspective. The
24 first use of internet voting in the United States
25 in elections was in 2000 via a small pilot program

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2 for absentee voters in which 84 people
3 participated. In 2004 the Department of Defense
4 attempted to build another internet voting pilot
5 for absentee voters this time with the intention of
6 surveying a hundred thousand voters. However, due
7 to a number of security concerns that it was
8 unable, unable to overcome including the program's
9 vulnerability to hacker attacks the potential for
10 voter, voter amenity to be compromised and the
11 potential for ballot manipulation the project was
12 cancelled. Concerns over similar issues have caused
13 the Netherlands, meaning Holland, Finland, and UK,
14 the United Kingdom to abandon their internet voting
15 programs. Nevertheless a number of countries do
16 offer internet voting of some kind. And as the
17 technology evolves it will become increasingly
18 viable. This hearing seeks to understand where the
19 technology stands today and whether it is an
20 options for New York. And of course there are lots
21 of other issues that could be enhanced voting wise
22 in terms of technology like the pole worker books
23 and other ways in which internet can play a major
24 role. You'll to just know because I know a lot of
25 us are interested in the, in the technology Wi-Fi

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2 vote and the government operation votes will happen
3 when we have a quorum and we will in the near
4 future. But I first thank all of you for waiting. I
5 appreciate it profusely. We'd like to call Michael,
6 Michael Ryan who is the Executive Director of the
7 New York City Board of Elections and Dawn Sandow
8 who is the Deputy Executive Director. I know they
9 don't have testimony but they're more than willing
10 to answer questions. Thank you very much.

11 [pause]

12 CHAIRPERSON BREWER: And we've been
13 joined by Council Members Weprin and Council Member
14 Koppell. Go right ahead.

15 MICHAEL RYAN: Good morning. I'm Michael
16 Ryan I'm the Executive Director of the New York
17 City Board of Elections. Before we get to the
18 question and answer this issue came up at least in
19 an official way..

20 [pause]

21 MICHAEL RYAN: Yes, that better? Yes,
22 I'm Michael Ryan. I'm the Executive Director of the
23 New York City Board of Elections and thank you for
24 having us here. This issue came up in an official
25 way via email fairly recently. So it's safe to say

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2 that coming off the last election cycle we did not
3 have a full amount of time to adequately be briefed
4 on all of the concerns associated with, with
5 internet voting. And given the relatively
6 compressed time frame there was no consensus
7 amongst our commissioners to whether or not we're
8 going to take an official position pro or con but
9 certainly we can talk about not only the prospect
10 of internet forum with some of those other issues
11 that Chair Brewer raised with respect to technology
12 enhancing the voter process. Whether we go all the
13 way to the extreme of, of internet voting or using
14 some interim steps that, that, that can be helpful
15 I think you know it's important to start the
16 discussion because if we don't start the discussion
17 nothing ever happens.

18 CHAIRPERSON BREWER: That's why we like
19 you Mike Ryan.

20 [laughter]

21 CHAIRPERSON BREWER: I mean I have a
22 couple of questions that are relevant to the tech
23 and then maybe my colleagues have others too. But
24 I, I just want to understand even though we may not
25 be talking specifically about internet itself

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2 voting what are some steps we could take in the
3 near future to talk about using technology to
4 enhance the experience of the voter. Are there some
5 specifics that you have thought about, maybe not
6 brought to the board yet, etcetera?

7 MICHAEL RYAN: Well I think the one that
8 we thought about the most is it's going to require
9 an expenditure and certainly we would have to come
10 back ultimately to the city council for that is the
11 electronic poll book. You know getting rid of the
12 paper books does a lot, not just on the front end
13 at enhancing the voter experience but also on the
14 back end. Because after the election... Well first of
15 all a lot of the delay at the table is based on the
16 individual poll workers ability to navigate the
17 book and get to the right spot and then hand the
18 book over to the voter and have them sign in the
19 appropriate spot. If we had technology to that
20 sorting that would happen relatively
21 instantaneously and that would you know eliminate
22 delay. Now when, when you think about 15 seconds
23 being saved it doesn't sound like a lot but when
24 you go to some of the busy poll sights,
25 particularly you know in, in Manhattan or the other

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2 volume boroughs where there's nine you know EDs in
3 one poll site 15 seconds per voter, every voter,
4 over the course of the day and you know you're
5 literally saving hours at the end of the day.

6 CHAIRPERSON BREWER: Well I certainly
7 agree with you and I think before you started your
8 job there was a demo of using a I would call it a
9 laptop in a lever machine machine but I'm sure
10 there's a fancier term.

11 DAWN SANDOW: Yes.

12 MICHAEL RYAN: It was... [interpose

13 CHAIRPERSON BREWER: Yeah, and Dawn...

14 MICHAEL RYAN: ...it was a kiosk.

15 CHAIRPERSON BREWER: Yeah, yeah a kiosk.

16 But I'm, and I would think that one of the issues
17 there was the concept was excellent in terms of
18 finding ways to incorporate all of the issues that
19 are relevant to using the technology. So I wonder
20 if you could talk about that. I must admit after
21 that hearing my email was swamped with great idea
22 but we should use laptops. And I think Dawn Sandow
23 was concerned and other members that the laptops
24 could be stolen. This is kind, you know we have to
25 get down to the nuts and bolts of how do you make

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2 these things happen in using technology but not
3 using I think perhaps that large device, for lack
4 of a better word. So I'm just wondering if there's
5 been more thinking because the possibilities are
6 there for using the technology to accomplish what
7 you want. How do you, what is the actual instrument
8 that does it is what the question might be and the
9 funding?

10 MICHAEL RYAN: There are various options
11 on the table laptops being one of them. The, the
12 other piece of the, the, the kiosk as it was
13 explained to me and I, and I, it was kind of...
14 [interpose]

15 CHAIRPERSON BREWER: It stood right
16 there.

17 MICHAEL RYAN: Right.

18 CHAIRPERSON BREWER: Just so you know.

19 MICHAEL RYAN: It was kind of a way of
20 repurposing the shell of the old voter machines...
21 [interpose]

22 CHAIRPERSON BREWER: Yes.

23 MICHAEL RYAN: ...as well... [interpose]

24 CHAIRPERSON BREWER: Yes we know.

25

2 MICHAEL RYAN: ...to, to recapture that.
3 But the other side to it was there was a lot of
4 thought given to not only the security of the
5 equipment in terms of you know people walking off
6 with them but also in the transportation since we
7 would be relying on it they want it to, the, the,
8 the effort was made to develop something that would
9 stand the test of time in being bounced around in
10 trucks and deliveries and, and those kinds of
11 things.

12 UNKNOWN FEMALE: And the antenna on top.

13 MICHAEL RYAN: And, and the antenna. I
14 mean you know one of the challenges that we'll have
15 to, we'll have to address is wireless accessibility
16 in all of our poll sites.

17 [background comments]

18 MICHAEL RYAN: Now for the ones that we
19 control, the, the city owned properties of which
20 that makes up you know the vast majority of the
21 poll sites we know that. That, that should not be
22 as much of an issue. But in the private sites
23 there, there is an issue and then it becomes not
24 only an issue technically but then you know from a
25 funding perspective as well. How do we, if we were

2 going to do a tech, tech upgrade you know how does
3 that get accomplished in a private site? But
4 getting back to the poll book for, for one quick
5 second. What that would also allow us to do is on
6 the back end when we're giving voter history we
7 wouldn't have to do all of that manual work at the
8 back end of the process. The voter history would be
9 in the system already. So it, it would provide two
10 benefits; one to the voter in speed of process and
11 two it would allow us for more accurate record
12 keeping.

13 CHAIRPERSON BREWER: So, so what are we
14 doing in terms of thinking about all of these
15 issues? Obviously if you talk about technology
16 somebody might bring up internet voting up. I guess
17 I'm not going to focus on it as much although we've
18 been joined by my colleague he can ask you more
19 questions about that issue. But what are we doing
20 just generally. Is it an advisory group perhaps
21 with some private sector companies or is it
22 internal to think about how to take the next step
23 technologically and what it would cost.

24 MICHAEL RYAN: Well after the election
25 we had myself and, and Dawn and some other members

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2 of our, our staff had a roughly five hour meeting
3 with ESNS the vendor for the, you know for the
4 voting machines. And in all honesty I, I've been
5 joking about it but it's true. It was a five hour
6 meeting that felt like a two hour meeting because
7 it really didn't start to lag until about the last
8 15 or 20 minutes. We, we really brainstormed, we
9 got ideas from, from them about where they think
10 the future of, electronic voting is going. Clearly
11 there is a, you know a, a fine line there you know
12 in terms of new developments and we were clear that
13 it was for informational purposes only that we were
14 no way engaging in any negotiation with respect to
15 machines but if we don't know what's out there and
16 we don't know what's on the minds of the tech
17 companies it's difficult for us to asses. And I
18 think often you know that public private
19 partnership is not exploited for the greater good
20 as well as it could be. We always think that from
21 the government side that we have to be coming up
22 with the ideas and we're getting the tech companies
23 to fit an idea. But if they're halfway down the
24 road or three quarters of the way down the road

25

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2 sometimes it might be better for us to, to jump on
3 what, what they're already doing.

4 CHAIRPERSON BREWER: I would just hope
5 that we'd go beyond ESSN, ESNS in terms of
6 technology companies to think about this. I agree
7 with you but I would like to see a broader group
8 thinking about it.

9 MICHAEL RYAN: Well for the moment
10 they're our vendor.

11 CHAIRPERSON BREWER: I know but the
12 other folks might... [interpose]

13 MICHAEL RYAN: Absolutely.

14 CHAIRPERSON BREWER: Pro-bono volunteer
15 their input in terms of New York City companies and
16 you know the, the startups and you know people who
17 are very innovative about these things. I'm not
18 talking necessarily about the voting specifically
19 but all these other issues that you're trying to
20 address.

21 MICHAEL RYAN: Right.

22 CHAIRPERSON BREWER: Okay. Council
23 Member Vallone has joined us and then we, I, my
24 wonderful colleague Council Member Fernando
25 Cabrera.

2 CHAIRPERSON CABRERA: Thank you for the
3 co-chair and I apologize for getting here late. But
4 a 35 minute trip turned out to be over a 2 hour
5 trip getting over here. Do not take the West side
6 going north-bound. You will be stuck there for at
7 least an hour just at piece, part of the trip.
8 Thank you for coming. I'm very interested in this
9 idea of internet voting and have you, have you
10 looked at what other people are doing? I don't know
11 if this question got asked but what other countries
12 are doing, other cities are doing to see if it's a
13 possibility that could become a reality in New York
14 City?

15 MICHAEL RYAN: Well be, before you got
16 here and I will confess that if you were here on
17 time Councilman you might have been alone because
18 we were very late too. So, so, but before, before
19 you got here I did indicate that we received this
20 notice you know in the fairly recent past and we
21 didn't have an opportunity to fully explore you
22 know different things. And, and because of the
23 timing of it there was not consensus amongst the
24 commissioners as to what our official position
25 should be. So I answer to that board of

2 commissioners and certainly I have to respect that.

3 But the short answer is there has been some thought

4 internally with respect to what we could do with

5 internet voting. The, and I, I guess we always

6 focus on the problems because if, if we have an

7 idea that something's going to work we don't

8 necessarily have to discuss that all as much but I

9 think the issues that Council Member Brewer, Chair

10 Brewer raised with respect to security. I think

11 that's the, you know the overriding concern

12 absolutely. And the other issue is it, just to

13 point out, it would be a wholesale change in the

14 way that I mean really, really wholesale change in

15 the way business is done right down to the way

16 campaigns are run. If you think about the, the way

17 campaigns go and send out poll watchers to the

18 polls when people are, when people are voting. If

19 that now information was going to be made available

20 online since it is public information how does that

21 change the dynamic of poll operations and all those

22 things? I mean so it, it goes well beyond just

23 what's going to happen you know within the Board of

24 Elections or what we need to do. It really is.

25 It's, it's impactful on the entire process. So let,

2 let me begin with the first issue that you brought
3 up which is I would imagine the, the, the most you
4 know, the most controversial one would be that
5 issue of security. You know I, I was thinking about
6 this recently. We do banking online, we renew
7 vehicle registration online. We fill out federal
8 and local tax forms online. We apply for student
9 online. We even shop online. And I think for good
10 or for bad people care more about their money than
11 voting and yet we see that as a reliable, a mostly
12 reliable way of going about doing things online and
13 some people have said the encryption software is
14 more secure than voting machines. And with that on,
15 you know with that in hindsight right that, that
16 idea that we do you know, I do, my wife does. She
17 handles all the money, she gets all the money.
18 That's why I've been married for 26 years. But I
19 mean with all the stuff that we do online already
20 and it's, it is secure well I don't, I'm a little
21 confused as to why would this be, why in this
22 particular issue would security be an issue versus
23 when we do everything else online and we find it to
24 be secure?

2 MICHAEL RYAN: Well I, I, I think you
3 know security is, is always an issue no matter, no
4 matter what you're doing but again from a cultural
5 perspective we have gotten very used to voting in a
6 particular way.

7 CHAIRPERSON CABRERA: True.

8 MICHAEL RYAN: And, and so it may be
9 more of the cultural dynamic than, than actually
10 the, the technology at, at the back end. When we
11 think about the highest levels of our government
12 are operating and doing you know very sensitive
13 things and, and doing it in a secure environment
14 but we would be really changing our society if, if
15 we do this in my opinion. Voting is a private thing
16 but yet a very public thing. And, and the voter
17 participation, the gathering at the pole sights you
18 know on election day for, for those people that
19 vote like other aspects of our life are very
20 ritualistic. And you know we, if we adopted this
21 across the board at some point you know down the
22 road it would be a wholesale change to the way our
23 society functions. And, and I think that to the
24 extent that we're going to get resistance in that
25 regard the resistance may be in the breaking down

2 of the, of the cultural rituals more so than in
3 the, in the technology itself.

4 CHAIRPERSON CABRERA: Do you, I mean do
5 you conceive that you could have both where people
6 could go still to the poles and they still can do
7 their online? Or, just to start with we could to
8 just military personnel you know they are overseas
9 or in upstate. Just so people can start getting
10 acculturated.

11 MICHAEL RYAN: Well in a sense we do
12 that already with paper. Military voters and
13 absentee voters vote outside of the, the regular
14 way to vote already.

15 CHAIRPERSON CABRERA: So it wouldn't be
16 a big jump there?

17 MICHAEL RYAN: For the... [interpose]

18 [background comments]

19 MICHAEL RYAN: You know and, and the
20 military ballots are already uploaded so that they
21 can have access to get them and, and print them out
22 themselves at, at remote locations. So a part of
23 it's kind of already happening but it's not taking
24 that, that next step to, you know towards full
25 implementation.

2 CHAIRPERSON CABRERA: You know I just
3 think about the long lines. I mean I, the last
4 presidential, and I went to different polls, last
5 presidential election I heard people waiting over
6 an hour. You know and people get discouraged. So
7 we, we, what you know we found is that... [interpose]

8 DAWN SANDOW: We have to start giving
9 out iPhones when they come in to vote.

10 [laughter]

11 CHAIRPERSON BREWER: Dawn you have to
12 identify yourself before you talk.

13 MICHAEL RYAN: Don't you shut it up.

14 [laughter]

15 CHAIRPERSON BREWER: You know and I
16 think it would be, wouldn't you say it would be
17 more inexpensive to run an operation online, to
18 having online voting.

19 MICHAEL RYAN: I think the intuitive
20 guess would be yes but honestly we haven't done any
21 evaluation along those lines. You know it would,
22 like I said it will impact our entire system. It
23 would, it would impact you know how we use poll
24 workers whether it will be reduction in poll
25 workers, storage, voting machines. All of those

2 things would have to be added up and, and, and
3 dealt with so that we can come up with a number and
4 then offset that against you, you know keeping in
5 mind that if it's done the way it's typically done
6 with government this would be a standalone secure
7 system all by itself which would require a level
8 of, of development. And, and we also know that
9 technology development has a tendency to be costly.
10 Now when you're weighing the cost of whatever the
11 development is versus whatever the ongoing savings
12 is whether it be consumables, less paper ballots,
13 or all of those things I mean that's where the
14 analysis is going to come in.

15 CHAIRPERSON CABRERA: How much was the
16 last presidential election? How much did it cost
17 us? How many millions? You say about a hundred
18 million dollars?

19 DAWN SANDOW: No.

20 CHAIRPERSON CABRERA: No?

21 [crosstalk]

22 DAWN SANDOW: About 27.

23 MICHAEL RYAN: About 20, 25.

24 CHAIRPERSON CABRERA: 20, 20 how much?

25 DAWN SANDOW: About 27 million.

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2 CHAIRPERSON CABRERA: 27 million?

3 DAWN SANDOW: Mm-hmm.

4 CHAIRPERSON CABRERA: How much, that
5 was, is that just for the primary or the general
6 election.

7 DAWN SANDOW: General election.

8 CHAIRPERSON CABRERA: And how much was
9 for the primary?

10 DAWN SANDOW: It probably wouldn't be
11 that much less. It would probably be about the
12 same.

13 CHAIRPERSON CABRERA: About the same?

14 DAWN SANDOW: Yeah. We would know more
15 once you know... [interpose]

16 CHAIRPERSON CABRERA: So you're looking
17 about 50 million dollars just for those two
18 elections right?

19 MICHAEL RYAN: Right.

20 CHAIRPERSON CABRERA: And no runoffs or
21 you know. I think so, I, how much you would
22 estimate it would cost to develop you know
23 software?

24

25

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2 MICHAEL RYAN: We haven't looked at that
3 at all and I, but you know given the timing like I
4 said... [interpose]

5 CHAIRPERSON CABRERA: Right.

6 MICHAEL RYAN: ...is only, we only got the
7 notice two weeks ago so we... [interpose]

8 CHAIRPERSON CABRERA: Okay.

9 MICHAEL RYAN: ...it's only, we only got
10 the notice two weeks ago so it... [interpose]

11 CHAIRPERSON CABRERA: Okay.

12 MICHAEL RYAN: ...it's clearly you know a
13 big issue and, and not something that we've
14 developed just yet.

15 CHAIRPERSON CABRERA: You there's a lot
16 more I could say here but I, I just think when I
17 see how few people vote and the absentee ballots to
18 be honest with you, you know in many elections
19 those, they're counted so late. We will have real
20 time election. We don't have to wait all those
21 hours and put you through all the pressure.
22 Everybody calling in for results. You know how it
23 goes on that night and the day after, as a matter
24 of fact weeks. And I think it will prepare us. Also
25 if we have runoffs. This year we had the situation

2 the worries about are, were we going to be ready
3 two weeks later for runoff and we, we did have one.
4 What kind of machines you know we're going to
5 require to, to, to have it all set up. I, I think
6 this would eliminate all of the above. I know that,
7 you know anything that you start off the transition
8 piece is, is difficult but I thinking the long run
9 and this is the way of the future really. And just
10 to see even other countries, a wholesale countries
11 that are adopting this approach and they're
12 reporting no problems. They're reporting more
13 people voting. But I know you didn't have an
14 opportunity... [interpose]

15 MICHAEL RYAN: Right.

16 CHAIRPERSON CABRERA: ...to check that out
17 so...

18 MICHAEL RYAN: But, but I will tell you
19 one of the things that we, we have had an
20 opportunity to, to look at is Councilman you, you
21 touched on results at the end of the night. We are
22 taking a very critical hard look at how we do the
23 results at the end of the night. For those of you
24 that don't know there are two portable memory
25 devices that, that go into the machine, the, the

2 "backup stick" as they call it and the primary. The
3 way the system is set up right now is we run three
4 tapes and then pull out the primary stick. So
5 that's the one that the results are ultimately
6 uploaded from. So whether we transition to
7 uploading the results right from the poll site or
8 if we continue to do it the way we do it now where
9 the police department takes, takes them and then
10 uploads into the system we're still in the position
11 of having to wait for all of these tapes to print
12 out. Now in a complicated election like we had
13 recently with a lot of candidates on the ballot
14 and, and six proposals those tapes take a long time
15 to run. So one of the things that we're looking at
16 is, and we're working with the, the state board of
17 elections and it, it's going to be a tight
18 timeframe and hopefully we can accomplish it for
19 this coming general but it requires state
20 certification. We're hoping to move to a situation
21 where we write the information to the primary
22 device and then write the information to the backup
23 and then remove the primary and run the tapes off
24 the backup. That will then allow the, the primary
25 sticks to get off into the stream of commerce and,

2 and get going where they need to go much more
3 quickly.

4 CHAIRPERSON BREWER: Will this be
5 possible in next year? Are we... [interpose]

6 MICHAEL RYAN: Well, well... [interpose]

7 DAWN SANDOW: We're trying.

8 MICHAEL RYAN: ...we're, we've asked. I
9 mean it's... [interpose]

10 CHAIRPERSON BREWER: Who are you asking?

11 MICHAEL RYAN: We, I sent a letter to
12 the, to the State Board of Elections and we're
13 having, the problem that we have right now is ESNS
14 has to develop its firmware protocol to present it
15 to the State Board of Elections ultimately for
16 their certification. It's, you know given the
17 process I'm hopeful that it could happen for this,
18 for this general. If it doesn't happen for this
19 general I'm, I'm certain that it can be implemented
20 in 2015.

21 CHAIRPERSON BREWER: Okay because I
22 think it's great to have this discussion. I don't,
23 I love my colleague but I don't want internet
24 voting yet.

25 [laughter]

2 CHAIRPERSON BREWER: But I do want early
3 voting. That would help with the lines. And Council
4 Assembly Member Kavanagh has a bill to that effect.
5 I'm sure he'll talk about it in a few minutes. But
6 you're right. The voting percentage is really low.
7 And so the question is what are all the ways we can
8 think about to increase it. I think we always have
9 to have it at the polls and I think we always have
10 to have early voting which we can't get the state
11 legislature to agree to. And then I think there are
12 so many internet steps. We talked about the poll
13 books. I mean it's insane that we're sitting there
14 writing our names and waiting in line to do that.
15 And then we wait in line first of all to find our
16 ED and then we wait in line to get to the station
17 to sign the book. And then we wait in line to get
18 to the security booth so we can fill it out. I
19 never do that. I just, any box I can find, because
20 I don't wait that, another time you know. And then
21 we wait for the scanner. [foreign language] So
22 you're right.

23 CHAIRPERSON CABRERA: I, I agree with
24 you. I, I think we, we need to look at what we're
25 doing now. But in the future. I don't know what

2 that future's going to be the near or, or a long
3 term future. I just see all the, all sorts of
4 savings. I mean it's just millions and millions of
5 dollars that we spend every single year in all of
6 these election. And then we have to send it. Now we
7 have congress in June and then in September and
8 then back. You know you just, we talking about
9 millions of dollars that we could be spending in
10 public schools is I would think conceivably be less
11 work for you, less pressure on you, less blame on
12 you, you know fair blame that I think a lot of
13 times comes your way. But, you know something for
14 us to, to start having this level of conversation.

15 MICHAEL RYAN: Absolutely and I think
16 before you stepped in that was one of the
17 observations that I made. If we don't start the
18 conversation nothing's ever going to happen. But it
19 was a relatively subtle statement that you just
20 made but I, I do not want it to pass without
21 expressing my absolute and utmost appreciation for
22 your observation that often, not to say that we
23 never do anything wrong, but that often the Board
24 of Elections is un, un fairly criticized from

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2 people that simply want to take pot shots and, and
3 maybe engage in some self-promotion.

4 CHAIRPERSON CABRERA: Indeed. Thank you
5 so much.

6 CHAIRPERSON BREWER: Thank you both very
7 much. We're going to go now to a quick vote on
8 Government Operations and then we'll hear from the
9 other people who are going to speak. We also I
10 think have to vote in technologies. It's the end of
11 the year so we're trying to squeeze all of these
12 in. I want to thank Council Members Vallone and
13 Dickens. I think Jackson was here for a few
14 minutes. So now we're going to move if it's okay
15 with the Sargent to Government Operations. Are we...
16 [interpose]

17 MICHAEL RYAN: Thank you very much.

18 CHAIRPERSON BREWER: ...are we all set
19 sir? Sargent? Okay. And today's votes for...
20 [interpose]

21 [background comments]

22 CHAIRPERSON BREWER: Alright so we're
23 gaveling out of the joint Committee of Technology
24 and Government Operations.

25 [gavel]

2 CHAIRPERSON BREWER: And we're gaveling
3 in at Government Operations.

4 [gavel]

5 CHAIRPERSON BREWER: So it's Gale Brewer
6 again and I'm here to talk about two votes that
7 we're going to be taking; the override of the
8 mayor's veto of Intro number 951-A by Council
9 Member Vacca and a vote on Proposed Resolution 1988
10 air, A on lobbying which is sponsored by the
11 Speaker Quinn and myself. 951-A is a piece of
12 legislation that patches up a loophole in the
13 city's administrative procedure act, as known as
14 CAPA for agencies that are boards and commissions
15 such as the taxi and limousine commission the
16 commission or board members typically need to vote
17 on any final rule. Despite this requirement the
18 CAPA process is the same as per agencies at which a
19 commissioner is making a decision. There's no
20 notice requirement for the members of the board to
21 ensure that they have time to see a rule before
22 they vote. So a rule that has been negotiated
23 throughout the night and the next day the members
24 of the commission show up and are told that they
25 have to vote and they haven't seen it and they

2 haven't participated in a negotiation so it makes
3 sense for the members of boards or commissions be
4 able to take some time to review the content of a
5 rule before they vote. And that's what Intro 951
6 addresses. The second piece of legislation is a
7 resolution that would implement one of their
8 recommendations of the joint mayoral council
9 appointed lobbying commission headed up by former
10 Council Member Herby Berman. The committee passed
11 many of these recommendations recently and it was
12 signed by the mayor. This resolution however would
13 call on the state of New York to pass legislation
14 requiring the state's acceptance of city filings
15 by lobbyists who only lobby city officials. It
16 would eliminate duplicative paperwork for lobbyists
17 who lobby solely within the city and would not
18 affect transparency because the information
19 included in city filings exceeds that of state
20 filings. So we were, we're going to ask the clerk
21 to call on these to voting to accept and file the
22 mayor's message of disapproval and repass Intro
23 951-A notwithstanding the objections of the mayor.
24 Please call the roll.

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2 WILLIAM MARTIN: William Martin
3 Committee Clerk. Roll Call vote Committee on
4 Governmental Operations. Council Member Brewer.

5 CHAIRPERSON BREWER: I vote aye.

6 WILLIAM MARTIN: Vallone.

7 COUNCIL MEMBER VALLONE: I vote aye. And
8 we'll put on the record that my father has a
9 consulting firm but I don't believe that conflicts
10 me out of this. Thank you.

11 WILLIAM MARTIN: Dickens.

12 COUNCIL MEMBER DICKENS: Aye.

13 WILLIAM MARTIN: By a vote of three in
14 the affirmative, zero in the negative and no
15 abstentions items have been adopted.

16 CHAIRPERSON BREWER: Thank you very
17 much. Now I'm going to adjourn this Governmental
18 Operations and we'll go back to technology.

19 [background comments]

20 CHAIRPERSON BREWER: Right. So I'm going
21 to out of this one.

22 [gavel]

23 CHAIRPERSON CABRERA: Okay we're back on
24 and we're going to... Good morning everyone and
25 welcome to this hearing and vote concerning

2 proposed resolution 1954 which calls on the port
3 authority on New York and New Jersey to amend its
4 contract with Boingo Wireless Inc. in order to
5 provide free internet access at its three major
6 airports. 15 of the 20's busiest airports in the
7 United State offers some form of free Wi-Fi
8 connectivity; LaGuardia, JFK, and Newark. Three of
9 the five busiest airports in the nation without
10 free wireless internet access. Boingo offers
11 domestic free Wi-Fi services at Boston Logan's
12 International Airport, Denver International
13 Airport, Nashville International Airport, Raleigh-
14 Durham International Airport thus it is evident
15 that Boingo's business model can support a form of
16 free Wi-Fi being offered at, at airports. And
17 Council Member Brewer I thank you for every time I
18 fly and I go to one of these airports, one of our
19 airports I sit there frustrated the fact that I go
20 to other cities and we're, you know the biggest
21 city in, in United States and, and it just
22 frustrates me and I sit there and say what, what
23 are we saying to the rest of the world when they
24 come here and we don't have free Wi-Fi and other
25 airports do. So thank you so much for putting this

2 forth and that's why I had to co, sponsor with you,
3 join you in this bill. And I'm going to turn it to
4 Council Member Brewer you have somewhere to..

5 COUNCIL MEMBER BREWER: No, I just, I
6 appreciate it very much and I look forward to
7 trying to change port authority's mind. We've been
8 talking to them and they are aware of it. And I
9 think that the press and the interest has shown
10 great possibilities for having free Wi-Fi. Thank
11 you very very much. I want to thank Will Colegrove
12 in particular from my office who's been focused on
13 this.

14 CHAIRPERSON CABRERA: We have some
15 witnesses before I move forward. I don't know if
16 Council Member Koppell and Weprin were recognized.
17 Thank you for joining us. We have Steven Sigmund,
18 Rebecca Lynch, Jordan Isenstadt, and Katherin
19 Scopey[phonetic]. Did I say that right? Please if
20 you could, if you could join us. Come forward and I
21 ask if you could make your statements brief. We
22 have a lot of resolutions today, a lot of voting
23 going on. And as soon as you're ready you may
24 begin.

2 CHAIRPERSON BREWER: Steve go ahead.
3 Start.

4 STEVEN SIGMUND: Alright thanks. My name
5 is... [interpose]

6 CHAIRPERSON BREWER: Move over to the
7 mic though.

8 STEVEN SIGMUND: My name's Steven
9 Sigmund and I'm the Executive Director of the
10 Global Gateway Alliance. GGA is a business labor
11 academia and government coalition whose mission is
12 to advocate for modernization of our airports and
13 related infrastructure. We're here today in full
14 support of resolution 1954. As the council member
15 noted GGA conducted the survey that showed that 15
16 of the 20 busiest airports around the country
17 provide free Wi-Fi and three of the five that don't
18 are, are here in New York. The 2012 travel and
19 leisure study which ranked New York area airports
20 the worst in the country specifically sited our
21 lack of free Wi-Fi and the difficulty in finding a
22 Wi-Fi signal at all and even after paying for it.
23 And just as important free Wi-Fi has become an
24 expected convenience throughout New York City
25 public spaces. Free public Wi-Fi is available in 20

2 parks, five subway stations, public libraries, and
3 museums throughout the city, payphones,
4 restaurants, coffee shops, other locations, a
5 hundred blocks weth[phonetic] of Harlem soon and,
6 and in this building but not at our airports. And
7 as you can see on the chart behind me there's free
8 Wi-Fi essentially everywhere in our region except
9 our airports. So GGA supports Council Member
10 Brewer's resolution wholeheartedly. We thank the
11 members of the committee for, for your support and
12 we urge it, its passage in the full council. We
13 join in calling on Boingo to amend its contract
14 with the port authority. It's an archaic contract
15 by internet standards, 15 years old. And they
16 should allow passengers free Wi-Fi at the New York
17 airports. Thank you.

18 JORDAN ISENSTADT: Good morning. My
19 name is Jordan Isenstadt. I'm the Deputy Director
20 of the Association for a Better New York. ABNY is
21 one of New York's longstanding civic organizations
22 advocating for the policy's, programs, and projects
23 that make New York a better place to live, work,
24 and visit. We represent a broad fabric of New
25 York's economy and our membership includes New

2 York's most influential businesses, nonprofits,
3 arts and culture organizations, educational
4 institutions, labor unions, and entrepreneurs. I'm
5 here this morning to offer ABNY's support of
6 resolution 1954. I want to thank Council Member
7 Brewer for introducing this resolution and Council
8 Member Cabrera for calling for this hearing today.

9 For millions of business of business travelers
10 airports are an extension of their office. In fact
11 50 percent, 55 percent of all business travelers
12 carry three to four smart devices at all times.
13 Access to free and reliable Wi-Fi at airports is
14 just another part of keeping business running
15 smoothly and efficiently especially given the
16 increase in time spent at the airport due to long
17 lines at security checkpoints and frequent delays.

18 A vast majority of global airports say they now
19 offer travelers free Wi-Fi but the New York City
20 airports with its 110 million passengers and JFK
21 having the most international arrivals we're, we're
22 still without free Wi-Fi which just seems
23 incomprehensible. Airports also account for 63
24 billion in regional economic activity and nearly
25 half a million jobs in the New York City area

2 alone. It's not a situation where we need to
3 reinvent the wheel it's countless airports around
4 the world have instituted free Wi-Fi offerings and
5 now it's time for port authority to do the same.
6 This resolution will make a difference to thousands
7 of travelers each day. ABNY wants to thank the New
8 York City council subcommittees here for
9 considering this important issue. And thank you for
10 the opportunity to testify.

11 REBECCA LYNCH: Hello, my name is
12 Rebecca Lynch and I'm here to testify on behalf of
13 George Miranda and the Teamsters Joint Council 16
14 representing 120 thousand working men and women in
15 the greater New York area. I just want to start by
16 thanking Chair[pho]netic Brewer and Cabrera and
17 also Council Members Weprin, and Koppell, and
18 Vallone if he comes back. In addition by the way I
19 just, as a side note in addition to representing the
20 Teamsters Joint Council 16 George Miranda's own
21 local represents all the airports East of the
22 Mississippi and within his local anywhere we'll
23 discuss in my testimony. But anywhere from flight
24 attendants and mechanics. Thank you for giving me
25 an opportunity to speak before your committee on

2 resolution 1954 which would give greater benefit to
3 millions of New Yorkers and Visitors to our city.

4 As a board member of the Global Gateway Alliance
5 the Teamsters recognize the importance of world
6 class airports as a union that represents pilots,
7 mechanics, cleaners, and truckers in the nation's
8 airports. We recognize the importance of world
9 class airports for the great number of jobs they
10 create. The Global Gateway Alliance study with the
11 partnership of New York City found that almost half
12 a million jobs are created by our airports. Better
13 amenities and options such as the proposed wireless
14 internet access at our airports will lead to more
15 amiable travel for New York's airport patrons and
16 that in turn translates to increased business
17 leading to increased hiring from our communities
18 and increased revenue for New York City, the air
19 carriers, and merchants in our airports. A 2012
20 airport survey conducted by the travel and leisure
21 ranked LaGuardia Airport the worst airport in the
22 United States. JFK and Newark Airports didn't fare
23 much better. This is not the reputation we want. It
24 is not what New York City should have. Something as
25 simple as the proposed free Boingo Wi-Fi would make

2 a world of difference for travelers in our New York
3 City airports. They have set a precedent that has
4 been offering a free advertiser supported Wi-Fi
5 option since 2007. Since its implementation the
6 usage has doubled. Wireless internet has a huge
7 impact out of airports in Boston with over 20
8 percent of passengers taking advantage of free Wi-
9 Fi and in San Francisco with over 30 percent. Our
10 passengers deserve the same level of amenities that
11 they have come to expect in parks, subways, coffee
12 shops, and airports around the world. On behalf of
13 the Teamsters Joint Council 16 and the residents
14 and travelers of New York City I want to thank you
15 for this resolution and urge Boingo to amend its
16 contract so we can begin planning the future of New
17 York City's airports. Thank you very much.

18 CHAIRPERSON BREWER: I took a picture of
19 you for your mother too.

20 [laughter]

21 CHAIRPERSON BREWER: It's a private
22 joke. We love her mother.

23 REBECCA LYNCH: Thank you.

24 CHAIRPERSON CABRERA: Is there anybody
25 else who's here to testify.

2 [background comments]

3 CHAIRPERSON CABRERA: Okay.

4 [background comments]

5 CHAIRPERSON BREWER: You have to wait.

6 Thank you.

7 CHAIRPERSON CABRERA: Okay so now we
8 call for a vote.

9 WILLIAM MARTIN: William Martin,
10 Committee Clerk. Roll call vote Committee on
11 Technology resolution 1954. Council Member Cabrera.

12 CHAIRPERSON CABRERA: Aye and encourage
13 everyone else to vote aye.

14 WILLIAM MARTIN: Brewer.

15 CHAIRPERSON BREWER: Yes. Thank you.

16 WILLIAM MARTIN: Koppell.

17 CHAIRPERSON KOPPELL: Just that, I would
18 like to explain my vote. I would just observe that
19 it's an, I didn't realize that we didn't have Wi-Fi
20 at our airports. I can hardly believe that this is
21 the case. And in fact one of the commissioners of
22 the port authorities, my constituent and well known
23 to me I'm going to discuss I don't care whether
24 they have the, whether they amend the contract they
25 got to do it. And it, it's absurd. Council Member

2 Brewer I am, I'm surprised that we haven't done
3 this before. It, it's just an outrage. Of course
4 I'm going to vote yes. Let me close by thanking the
5 chair for his chairmanship of this committee and I
6 want to also go back and thank Council Member
7 Brewer because she really created in a sense this
8 committee and done such great work with technology
9 over the years that we've served together. So thank
10 you both and I withdraw my request and I vote aye.

11 WILLIAM MARTIN: Weprin.

12 COUNCIL MEMBER WEPRIN: Aye.

13 WILLIAM MARTIN: By a vote of four in
14 the affirmative, zero in the negative, and no
15 abstentions item has been adopted. Members please
16 sign the committee report. Thank you.

17 [gavel]

18 CHAIRPERSON CABRERA: We're close?

19 [gavel]

20 CHAIRPERSON BREWER: We're gaveling back
21 in the joint Committee of Governmental Operations
22 and Technology. We'd like to Assembly Member Brian
23 Kavanagh.

24 BRIAN KAVANAGH: Thank you very much.

25 I'd like to note as a preliminary matter that I had

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2 only one breakfast so I got, a beat a few of you
3 here but though not by much. And I'd also like to
4 note that I'm sure my mother would appreciate a
5 photo of, of me while I testify...

6 [laughter]

7 BRIAN KAVANAGH: ...if, if that's
8 possible.

9 CHAIRPERSON BREWER: I want to make sure
10 your mother's not in the assembly but I will make
11 sure that she gets a photo.

12 [laughter]

13 BRIAN KAVANAGH: Okay. So just thank you
14 for the opportunity to testify. I'm Brian Kavanagh.
15 I represent a district on the East side of
16 Manhattan and the State Assembly, the 74th Assembly
17 District. I'll try to smile while I say the next
18 sentence. I'm a member of the Assembly Election
19 Committee and I chair the Commission on Government
20 Administration and I chaired for many years the
21 subcommittee on election operations and voting in
22 the assembly. I'd like to thank Chair Fernando
23 Cabrera I think this is the first time I've
24 testified before your committee and also Chair
25 Brewer and I think this may well be the very last

2 time that Gale Brewer chairs the Government
3 Operations Committee before moving on to another
4 job. But you know thank you for so much work on, on
5 election issues and so many other issues over the
6 last few years. So again thank you for having this
7 important hearing. I'm going to focus my testimony
8 on the, a little bit on the feasibility of internet
9 voting and some of the issues that you've talked
10 about already on alternative times and places we
11 can allow people to vote that will serve some of
12 the purpose of internet voting and also ways we can
13 make the, we can use the internet to make it easier
14 for people to participate in the electoral process.
15 While internet voting is an exciting frontier and
16 an election administration it's still from
17 perspective a long way from being secure enough to
18 use. The National Institutes for Standards and
19 Technology was asked in 2011 by the Federal
20 Election Assistance Commission to research internet
21 voting as potential avenue for absentee voting by
22 military and overseas citizens. And even in that
23 context that institute found that to be too many
24 technology and security issues to make it feasible.
25 And it doesn't seem that much has changed in, in,

2 in that regard since 2011. And the report concluded
3 that internet voting systems are currently
4 vulnerable to internet threats like malware and
5 spyware and face difficulties in, in voter
6 authentication and auditability. Their
7 recommendation was that internet voting not be
8 implemented until subjected to further study. I
9 just want to make, I just want to talk briefly
10 about the security issue here. The, the chair
11 mentioned a lot of transactions that many of us
12 consider at least as important as voting that are
13 done routinely over the internet. The fundamental
14 difference between voting, instituting a voting
15 system by internet and all of these other things is
16 that the individual user is in a position to verify
17 the outcome. So if you use an ATM to deposit money
18 into your account and the money doesn't go into
19 your account you, the person who deposited, are
20 able to notice that and question the bank and get
21 the thing repaired. And actually you know ATMs are
22 not perfect and they do make mistakes. The problem
23 with voting is if you have a million people each
24 engaging in a transaction and the sum of all those
25 transactions is the way we determine who gets to

2 run the city or run the state or, or you know serve
3 one of our local districts no individual person is
4 in a position to say well my vote wasn't, was
5 counted or was not counted. And there's simply no,
6 there are currently we have a system where people
7 filled out a piece of paper, it gets scanned. It is
8 the scanner that's telling us how many but at the
9 same time we have a box of all the, the pieces of
10 paper and when election is closed we can open the
11 box and we can audit it and we'll look at it.

12 Internet voting if somebody were, so if somebody
13 were to tamper with the results of an existing
14 election, hack the machines, all these things we've
15 heard, our concerns sometimes with the scanner
16 machines and so far there has not been any evidence
17 that that's been a problem with these machines. But
18 even if there were you do have a way of auditing
19 it. With people sitting in their homes on their own
20 computers voting it would be very hard. And that's
21 the really, the, the biggest challenge from a
22 security perspective. There's just no way to know
23 if you actually have a security problem. So just
24 briefly there're two, two quick points on
25 alternates to make it easier. One is early voting.

2 The assembly has adopted a bill that would permit
3 early voting, would, would actually mandate early
4 voting throughout the state. It does solve a lot of
5 the problems that internet voting is intended to
6 solve, it allows you potentially to vote at a
7 different location than your normal place if it's
8 more convenient. It allows you to pick a time over
9 the, you know the preceding days where you can vote
10 and it would make it easier. It presumably would
11 reduce the lines at poll sites. The other big
12 alternative is an expanded ability to vote by mail.
13 I have a bill that would take out of the state
14 constitution some restrictions on absentee voting.
15 Currently you are required in order to get an
16 absentee ballot to be unavoidably absent from the
17 county of your, in New York City's case, from the
18 City of New York on the day of election. It should
19 not be that you're unavoidably absent. There's
20 also, the constitution currently mandates specific
21 excuses that allow you to get an absentee ballot. I
22 have a bill that would strip those out and just say
23 legislatures like the City Council and the State
24 Assembly can set the parameters but much broader.
25 It does require a constitutional amendment at this

2 point. We have moved that in the committee and the
3 assembly in the past but it would take a, a big
4 push to do it. And that is also an option that
5 allows people to vote in their home. Routinely
6 other states have done that to substantial success.
7 On, so I'd like, just briefly on, while security of
8 internet voting continues to be assed there are
9 many other ways we can use internet, the internet
10 to streamline the voting process. One you've talked
11 about a lot already, poll books. That demonstration
12 of the kiosk. My understanding is those kiosks cost
13 about 15 thousand dollars to create which would be
14 quite an expensive proposition citywide. Whatever
15 benefits you get from the fact that it's really
16 hard to steal a thousand pound steel machine with a
17 tablet embedded in it it's far simpler to buy
18 tablets, distribute them over poll sites, you know
19 set them up so they can't easily be used for
20 something else. You know the security features that
21 you'd have to hack through. Tablets cost a few
22 hundred dollars apiece maybe. If you have lost a
23 few of them each election day that would not only
24 be cheaper than the capital cost of converting all
25 those kiosks. The storage costs of... I mean those

2 machines cost currently about 750 thousand dollars
3 a year to store. So you could buy a whole lot of
4 tablets with the kind of money that it would take
5 to implement that kind of system. I compliment the
6 board on thinking about that. Electronic poll books
7 would, is probably the single easiest use of the
8 internet to dramatically improve election
9 administration. And we should, we should do it. It
10 also would have the benefit of being immediately,
11 if you're at the wrong poll site immediately
12 somebody can look up and tell you where to go and
13 all that. So there's lots of benefits of that and
14 we should move in that direction but not with
15 hulking steel machines. The other great opportunity
16 comes in the possibility of creating online voter
17 registration which is a commonsense measure. And it
18 has been implemented partly in the state of New
19 York through the DMV and I'll talk about that again
20 in a second. But in addition to promoting greater
21 access online voting can create substantial cost
22 savings. In Arizona where voters have been able to
23 register online since 2002 the cost of paper
24 registration was 83 cents per registration. The
25 cost of online registration in Arizona presently,

2 well this is according to a 2010 study is three
3 cents to process. So boards of elections that are
4 currently getting paper forms hand written and then
5 having to enter that data generally in big stacks
6 of paper by bleary eyed people right before the
7 election would, if, if the data could be, come in
8 in an electronic format, be transferred in
9 electronic format and they add it to the rolls in
10 electronic format it would make election
11 registration cheaper and much more effective. And
12 it would also dramatically reduce errors in the
13 books which is one of the reasons the lines get so
14 long. So far in New York as I mentioned we only
15 have that for current DMV customers. You need to
16 either be a license holder or a, a fee paying ID
17 holder from DMV. We should expand that initiative
18 by using it as a model for other agencies
19 particularly focusing on agencies that are
20 currently required to register voters under the
21 national voter registration act which is a variety
22 of social service agencies and other agencies that,
23 that people deal with routinely. It should be the
24 case that if you have interaction with a government
25 agency and there is a signature and an

2 authentication process required through that
3 interaction that also should be sufficient to allow
4 people to vote. Our current system, although the
5 DMV is a great step forward, it does skew
6 potentially skew the election in favor of people
7 who have cars and registrations and drivers
8 licenses which is a, which is a problem that the
9 national voter registration act was intended to
10 offset by using social service agencies about 50
11 years ago. But it's, it's went back now and in a
12 world where people with cars and drivers licenses
13 are now advantaged in certain ways in getting into
14 the registration system and that should be
15 addressed. I also have just a broader bill called
16 the voter empowerment act of New York which would
17 provide for online voter registration and
18 streamline a variety of the other processes
19 Sometimes people call it automatic registration. It
20 shouldn't necessarily be automatic. People in our
21 society probably should have the right to stay
22 unregistered if they really insist upon it. But it
23 should be the norm that people get registered. That
24 would, that would increase access. One of the major
25 reasons people don't have access now is it's very

2 difficult to change your address and stay on the
3 voter rolls. And so a significant number who are
4 being disenfranchised in that way, having a system
5 that's reliable and on, on the internet to register
6 and stay in the system is actually probably a
7 greater advantage to people than the actual right
8 to vote when election day rolls around because if
9 you're not registered you can't vote anyway in our
10 state. And I know some folks also today will
11 probably also talk about same day registration
12 which would be helpful but needs constitutional
13 amendment is probably several years away at this
14 point. We also, also, in a similar vein worked on
15 preregistration 16. Currently you can register to
16 vote, you can preregister to vote if you in the
17 year of the election if you will turn 18 by the
18 time that election happens. For presidential years
19 that means you know if the presidential primaries
20 in February it means you got, and you're going to
21 turn 18 sometime after January one but before the
22 presidential election you might have a couple weeks
23 where you can preregister. It should be that 16 and
24 17 year olds when they're still in school, when
25 they're engaged in civics classes, when they're

2 showing up for the first time at DMV in many cases
3 should be able to preregister to vote, do all the
4 things necessary to get registered except obviously
5 certify that they're 18 because they're not and
6 upon their 18th birthday it becomes automatic. And
7 that way again would expand the rolls and make it
8 easier for lots of people to vote and, and also
9 make it easier to administer elections. You talked
10 about in addition to electronic poll books and
11 online registration the New York City Board of
12 Elections should use the internet to better inform
13 voters of election information including dates of
14 elections and poll site locations and changes. I
15 compliment the board on some of the work they've
16 done to put some material on the internet, to use
17 Twitter and other applications to get real time
18 information on election day. But there's still a
19 lot more work to do. We passed a bill that took
20 effect for the first time this November that
21 requires results to be on the board, on the board's
22 websites on, on the internet. That's a step
23 forward. The board did a good job of implementing
24 that. But there's a lot more to do in terms of
25 using that to, to inform voters. It would

2 particularly relevant in the event of a last minute
3 poll, polling location changes like we saw in the
4 aftermath of super storm Sandy. The internet could
5 be used in those context to a quick and inexpensive
6 way of disseminating up to the minute information.

7 Of course it's, it's necessary to have proper
8 contact information. The board has to its credit
9 added a space for email addresses and on
10 registration sites. But getting, getting reliable
11 systems to distribute information reliably through
12 smartphones and, and email is also a, a major
13 opportunity that we should pursue. Again thank you
14 for the opportunity to testify today. If anybody
15 does have any questions I'm happy to entertain
16 them.

17 CHAIRPERSON CABRERA: Well first I want
18 to thank you for all your efforts at the state
19 level and it seems that you covering all the bases
20 and I, if we could be of help from the city please
21 let us know be more than glad to join your efforts.
22 I, I'm curious have, have you looked at Estonia's
23 smart electronic ID card system that they have over
24 there because you know they have a nationalized
25 online voting system and would that satisfy the

2 verifiable piece that I think is very very
3 important that's why we hold the, these hearings to
4 see how we could, you know what's best.

5 BRIAN KAVANAGH: Right.

6 CHAIRPERSON CABRERA: You know what's
7 the best practice.

8 BRIAN KAVANAGH: I, I have not
9 personally looked at that system specifically. I
10 think that kind of system was reviewed in the
11 report I sited from the Voter Assistance
12 Commission. But the, like I, you, there are
13 security systems that would make internet voting
14 doable. You could create a system, you know with
15 some people that its security to banking
16 transactions. There were, there were things where
17 you get a real time number sent to you on a, on a
18 chip that allow you to access your bank accounts
19 and you type, have to type that in in real time.
20 There are ways we could secure it in having sort of
21 sophisticated ID systems and you know scrambling
22 the information as it's transmitted and all that
23 stuff. There are two basic problems with that. One
24 is making, creating a citizenry where everybody has
25 to obtain that and in order to participate in the

2 system creates some, some obstacles that are maybe
3 greater than the current obstacles to voting. There
4 would, you would end up being... A, a really secure
5 system would have obstacles, it would have
6 passwords, it would have a certain kind of software
7 you need, it would have technological requirements
8 that some people in our setting presumably would be
9 able to participate in. Others may not be able to.
10 So one, we talked about cost before. It is very
11 likely that an internet voting system would be
12 cheaper to administer than a bricks and mortar you
13 know out there in the world voting system. The
14 problem with that analysis though is you'd probably
15 need both for the foreseeable future. So you're not
16 going to say everybody needs to get this
17 sophisticated smartcard ID thing in order to
18 participate and otherwise you're out of luck.
19 You're going to end up running conventional poll
20 sites and having conventional absentee ballots for
21 the foreseeable future. So you would be adding
22 that. It'd be expensive. The other basic problem is
23 we still have enormous skepticism now having
24 implemented paper and scanner systems a number of
25 years ago. We're the last state to do it and even

2 we've had them for a few years now. You still have
3 people that in their heart believe this is
4 vulnerable to hackers and creating an online system
5 where people really are, where the general public
6 as a whole, where there's not a significant portion
7 of the public that does not believe that in fact
8 the outcome is correct would be an enormous lift.
9 And I just, I think we're very far from it even if
10 we got the best technological minds in, in to, to
11 think about it. It's just like they've done in
12 Estonia.

13 CHAIRPERSON CABRERA: I, I definitely
14 appreciate you comments and we need to look at all
15 those variables. Indeed I, the, you know the
16 information I had got from Estonia has been that
17 voting has gone significantly up, that they have
18 not encounter security issues. Again this is, this
19 is smaller country United States but if we were
20 just talking about New York City you know it would
21 be something compatible in terms of population what
22 they have. And I understand the cultural piece is
23 different there than here. And what I mean the, the
24 whole acculturation process of getting used to
25 trusting you know the whole internet experience.

2 But it, it, it will be interested to a... I, I be
3 more interested in, in all of us, we looking at
4 what they're doing, see what's working, how we can
5 make it better. We're more technologically advanced
6 than they are and how to improve what they already
7 have and you know just to look at possibility. I'm
8 always into possibility thinking. And, but...

9 BRIAN KAVANAGH: And I, and I think this
10 is a worthy, this is as, as you said before this is
11 a worthy subject to look at toward the future.

12 CHAIRPERSON CABRERA: Right.

13 BRIAN KAVANAGH: You know I, I agree it
14 is really a very exciting prospect. I think we're
15 not there yet. I would not that getting an
16 electronic poll book system and electronic
17 registration are necessary and significant steps
18 toward a system that would be reliable enough to do
19 internet voting.

20 CHAIRPERSON CABRERA: Fair enough.

21 BRIAN KAVANAGH: If you can, if you can...
22 If somebody at a poll site is able to clock in the
23 fact that you just voted right now that's the kind
24 of real time information you are going to need to
25 have electronically. So getting used to those

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2 mechanisms would be a major step. Now it's not just
3 valuable in its own right. It also would be a major
4 step toward being able to rethink the technology of
5 this long term.

6 CHAIRPERSON CABRERA: That's very
7 helpful. Council Member Brewer.

8 CHAIRPERSON BREWER: Thank you. I'm
9 scared of Estonia. I don't know. I think I might...
10 [interpose]

11 [laughter]

12 CHAIRPERSON BREWER: I don't want a card
13 I just love my, my colleague but no Estonia. I, I
14 just lost the Estonia vote I'm sure.

15 [laughter]

16 CHAIRPERSON BREWER: But I don't know
17 about Estonia's and I don't want it to be like
18 Estonia I'm just saying. And also that little card
19 it reminds me, you've, you know we don't want
20 people to have to have ID to go vote. That's an
21 issue that the civil liberties union is focused on
22 in many states. So I don't want ID and so I just
23 throw that out. I haven't been to Estonia.

24 [laughter]

25

2 CHAIRPERSON BREWER: But anyway I
3 appreciate, that I'm hugely supportive of what Mike
4 Ryan is trying to do in terms of the end of the
5 day. I've been at the police stations when we're
6 there with like two computers, backup drives,
7 counting at the table, oh gosh and waiting for the
8 yellow packets to come. I, I've done it myself.
9 That has to go and if we could figure out a way of
10 on the site having enough connectivity because
11 that's also a problem, the walls are thick in some
12 of the buildings. There's not always wireless in
13 the gym etcetera. And that's where I would like to
14 focus so that we're not doing the police station
15 thing. And secondly this poll book we need to have
16 not just ESNS but also the other large companies
17 and some startups as a tech support system. No
18 money, this would be pro-bono to the Board of
19 Elections stating this is what we need to do
20 together. So I would love to work with you Brian
21 Kavanagh on that and getting all of your wonderful
22 legislation passed because I think that would
23 really help in terms of turnout. And I think you're
24 right this turnout is just pathetic. So all those
25 issues would work. And one question I had though I

2 never understand with the DMV how do we get around
3 or is it a problem is original signature. That's
4 what's always thrown up. So when you register to
5 vote you do sign something. How does the DMV deal
6 with that because I have had my license for so many
7 decades I don't pay attention to the DMV?

8 BRIAN KAVANAGH: The, the D, the D, the,
9 the, through an executive order and some you know
10 some good work with the DMV the, the state
11 determines that the signature on file through the
12 DMV and their authentication process is sufficient
13 to create a registration.

14 CHAIRPERSON BREWER: Yeah because they
15 have it already on the signature of the license.

16 BRIAN KAVANAGH: Right and it also helps
17 that the DMV is actually mandated by federal and
18 state law to provide registration as a service. But
19 as I noted before and you know this Council Member
20 Brewer the, a wide range of agencies are also
21 mandated to provide registration directly and it..
22 Again I have a piece of legislation that would
23 mandate that and systematize it but there probably
24 is an opportunity for government agencies at the
25 city and the state level by executive action to

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2 create more opportunities to register and we should
3 push this like... [interpose]

4 CHAIRPERSON BREWER: Well we have, we
5 have you know... [interpose]

6 BRIAN KAVANAGH: Right.

7 CHAIRPERSON BREWER: ...there is an
8 executive order from at least maybe Kochert [sp?]
9 or you know to do other agencies. A, it's not
10 enforced.

11 BRIAN KAVANAGH: No, what I'm saying is
12 that... [interpose]

13 CHAIRPERSON BREWER: But we need online.

14 BRIAN KAVANAGH: Right.

15 CHAIRPERSON BREWER: Go ahead.

16 BRIAN KAVANAGH: You know what I'm
17 saying is the, the yes. The, the you know I, I, it
18 was a lead researcher on a study nationwide of
19 every state and their compliance with National
20 Registration Act a few years back and very few
21 states actually comply with, especially in the
22 context of social service agencies. So there's a
23 compliance with their current form, in the current
24 process issue. What the current process basically
25 involves every customer coming in and being handed,

2 being asked if they want a paper registration form
3 and if they don't get, a paper registration form,
4 they're supposed to sign something called the
5 declination form and all those forms are supposed
6 to be like gathered up and sent off to A Board of
7 Elections where they can be hand entered. It is
8 probably the case that what happened at the DMV is
9 a good, they're, they're technological issues to be
10 worked out about how you make internet voting
11 available through other agencies but again the DMV
12 and the governor's council decided that they had
13 the capacity, the legal, and legislative authority
14 to implement online registration through DMV
15 without statutory changes. And it is an, it's, it's
16 something that the city and the state should be
17 explore. And I've had governor's office about this
18 but it's something the city and the state should be
19 exploring; whether there are, there're agencies
20 where you can automate it. Because one of the
21 reasons it doesn't happen now is it's very
22 cumbersome for the worker who's, you know they're
23 trying to sign somebody up for food stamps and like
24 oh by the way I'm supposed to do this whole voting
25 thing with you and it's complicated and there's

2 paper and then the paper has to get to the right
3 place. It's, so creating a system that it's easy.
4 It's like you want to register to vote alright I'm
5 going to check this box on my screen, you're going
6 you know.

7 CHAIRPERSON BREWER: Right when you get
8 in the SNAP you get the online opportunity to
9 register. That does not exist now.

10 BRIAN KAVANAGH: Right. And that would,
11 and that would... [interpose]

12 CHAIRPERSON BREWER: So we have to
13 figure out what is the mechanism to make that
14 happen.

15 BRIAN KAVANAGH: Right. And which
16 agencies have the technological, technological
17 capacity to do it and this, there're, there're
18 technical issues but there may not be legislative
19 and the legal issues. And the fact that, that, the,
20 the state has implemented DMV registration system
21 and is, is very promising.

22 CHAIRPERSON BREWER: And there's some
23 apps now that were, been done by the Board of
24 Elections which I think you mentioned in passing as
25 well as by VAC, But I think they're also helping

2 you know at least let people know what the process
3 is. It doesn't help registration. It doesn't help
4 with early voting. So what are your possibilities
5 of your wonderful bill's passing? What can we do to
6 help with those?

7 BRIAN KAVANAGH: Again you know we have
8 one, one thing I haven't mentioned today which is
9 high on our agenda which is the, the, the voter
10 friendly ballot act which I know this committee's
11 also been supportive in the past. And that, that's
12 an effort again to make, to make it easier when
13 somebody actually shows up in person to do it. But
14 each of these, we need, we are going to need
15 bipartisan consensus to move these things forward.
16 Again we did early voting last year. And, but
17 having, having city officials that want to push for
18 this and say it's a priority is, is really
19 valuable. And again early voting is, early voting
20 is not my bill in the assembly but it's something
21 you know I'm, I'm a prime sponsor of and that, that
22 is I think one of the single biggest changes that
23 will make, that will make things easier. But all
24 these things we, you know it's an ongoing
25 conversation and we do need, we do need your

2 support to help us convey the you know folks that
3 are skeptical that this is something, these are
4 things we really need to move on.

5 CHAIRPERSON BREWER: Alright. Thank you
6 for all of your amazing testimony over the years
7 and on this issue in particular you are the expert
8 and I deeply appreciate your waiting to testify
9 today. I don't have any other questions or anything
10 else. Thank you very much Brian Kavanagh. I'm his
11 biggest fan just so you know.

12 [laughter]

13 BRIAN KAVANAGH: Thank you.

14 CHAIRPERSON BREWER: You should run the
15 world.

16 [laughter]

17 BRIAN KAVANAGH: It's mutual.

18 [laughter]

19 CHAIRPERSON BREWER: That's what I
20 think. I really believe it.

21 BRIAN KAVANAGH: Okay. Thank you all.

22 CHAIRPERSON BREWER: Our, our next is
23 Eric Friedman, Campaign Finance Board.

24 ERIC FRIEDMAN: Good morning, good
25 morning Chairs Cabrera and Brewer. My name is Eric

2 Friedman, Director of External Affairs for the New
3 York City Campaign Finance Board. I extend
4 apologies from our Executive Director Amy Loprest
5 who couldn't be with us this morning. Pardon. And I
6 thank you for the opportunity to testify today.

7 Fewer than 24 percent of registered democrats voted
8 in the September primary this year. In November for
9 the fourth consecutive election voter turnout hit a
10 new all-time low for a general mayoral election in
11 New York City. Barely 25 percent of all registered
12 voters cast a ballot. To address this downward
13 trend our voting system must be modernized. In an
14 ideal world our voting system would allow New
15 Yorkers to connect with government and participate
16 in the democratic process with the same ease and
17 convenience they've come to expect in their
18 everyday lives. A system that allows voters to cast
19 their ballot from a remote location using any
20 device with an internet connection is sometimes
21 discussed as a cure to lower voter turnout. Make
22 voting easier and more convenient the thinking goes
23 and more people will do it. It could be a money
24 saver as well. Holding elections via internet could
25 reduce or eliminate the cost of administering poll

2 sites as well as printed ballots. But serious
3 challenges remain to be addressed before any
4 reliable, broadly used system of internet based
5 voting is ready for adoption. In, in a conventional
6 system a handful of ballots may be compromised
7 through fraud but an online network voting system
8 may be vulnerable to more wide spread manipulation.

9 There are multiple entrance points for mischief.

10 Malware on the voter's personal computer could
11 siver[t] the voter's intent without his or
12 her knowledge. Ballots could be intercepted in
13 transit over the public internet. Servers or
14 backend systems controlled by election

15 administrators could be compromised by remote
16 attacks. As mentioned in the committee report the
17 District of Columbia Board of Elections and Ethics
18 in 2010 conducted a test inviting hackers to find
19 vulnerabilities in a system they created as a pilot

20 program for military and overseas voters. A team
21 from the University of Michigan broke into the
22 system within 36 hours. They found a document
23 containing every voters name and password and
24 changed the voting results. It may be more

25 difficult to preserve the secrecy of ballots cast

2 over the internet. You know our current system of
3 in person voting requires that we authenticate each
4 voter's eligibility to cast a ballot and guarantee
5 the voter's privacy. In a system of online voting
6 these imperatives may contradict each other. I
7 think Assemblyman Kavanagh addressed this issue
8 pretty, pretty well during his testimony. In
9 October 2013 report on internet voting commissioned
10 by the province of British Columbia notes that
11 unlike in person voting the connection between the
12 voter's identity and the content of the ballot cast
13 electronically is fundamentally and necessarily
14 linked for both technological and policy reasons.
15 Lastly the lack of access to high speed internet in
16 many communities still represents a real concern.
17 Nationwide statistics show that lower income
18 communities do not have the same access to
19 broadband internet at home as their better off
20 neighbors. And computers and libraries or work
21 environments may not be private. Even if the
22 security and privacy issues that I have talked
23 about are addressed certain New Yorkers may still
24 simply not have equal access to the potential
25 benefits of internet voting system. Currently none

2 of the 50 states provide internet based voting for
3 the general public. 32 states in the District of
4 Columbia allow voters serving in the armed services
5 or living abroad's return voted absentee ballots
6 electronically via email or through a web portal
7 under limited circumstances. For instance one
8 instance Missouri allows only military voters
9 serving in a quote "hostile fire" area to return
10 ballots via email or fax. In the wake of super
11 storm Sandy New Jersey allowed some voters to email
12 in their ballots. An experiment that it, at least
13 one official in New Jersey described it as a
14 catastrophe due to the overwhelming demand. New
15 York State does not allow citizens currently
16 serving abroad to return their ballots
17 electronically. If we are to move forward in this
18 area we should consider changes to the law that
19 would allow administrators to explore internet
20 voting for the narrow, very narrow purpose of
21 helping more New Yorkers abroad or serving in the
22 military to cast valid timely votes if and only if
23 the challenges that we've described above can be
24 addressed. There are several ways however that
25 available technology can improve the in person

2 voting experience in New York right now in
3 significant and in measurable ways. And we've heard
4 about a lot of those already. We agree
5 wholeheartedly that all New Yorkers should be able
6 to register to vote and update their voter
7 information online. The state has done a useful and
8 important thing by establishing electronic voter
9 registrations through the DMV but as we've heard
10 only for New Yorkers who possess, who already
11 possess a state ID allowing all voters to register
12 and update their records online will help ensure
13 the New Yorkers who change addresses for instance
14 receive the information they need to stay engaged.
15 We can also create smart linked databases that
16 automatically, automatically share information
17 between government agencies that will do a lot to
18 ensure the voter rolls stay up to date. The voter
19 empowerment act mentioned earlier by some Kavanagh
20 his testimony would accomplish some of the
21 important objectives. We can continue making voter
22 information available in more convenient and
23 accessible ways. The Board of Elections made poll
24 site locations and sample ballots available through
25 their website and through a mobile app. Our own New

2 York, NYC Votes app provided information about
3 candidates and poll site locations to thousands of
4 New Yorkers during this election season. Our voter
5 guide in print, in video, and online gave every
6 registered voter access to comprehensive and
7 nonpartisan information about the candidates and
8 about the voting process. We can make better use of
9 technology to collect data about activity at the
10 poll sites and learn more about voter experiences.
11 Collecting better data across the entire system can
12 ensure problems that the poll sites are addressed
13 quickly and efficiently and help optimize the
14 allocation of resources on election day. We will
15 also be soliciting voter feedback about the past
16 election through our own online survey which we
17 hope will provide information that can prove the
18 voter experience. A lot of this can be achieved
19 through the use of electronic poll books which
20 we've heard a lot about also. Jurisdictions in at
21 least 27 states do already use some form of
22 electronic poll books according to the Brennan
23 Center for Justice. Electronic poll books can
24 absolutely streamline the check in at the poll
25 sites. If they're linked in a live way to the

2 state, statewide voter registration database they
3 can be used to determine a voter's correct address
4 and correct or update voter registration records at
5 the polls making affidavit ballots practically
6 obsolete which I know are, are kind of a, an issue
7 for a lot of people. All of these technological
8 improvements are available now. Each would make
9 voting quicker and easier, could save us money, and
10 improve the health of our democracy. For these
11 reasons and, and many others a state election law
12 must be overhauled to reflect the ways technology
13 has evolved since the bulk of the law was written
14 in the 1970s. Thank you for the opportunity to
15 testify today and happy to answer any questions.

16 CHAIRPERSON CABRERA: Well thank you so
17 much for your comments. Indeed they are helpful.
18 They are the variables that I, you know we keep
19 hearing today and we need to look at. I, I will
20 point out that the Jersey experience I, I didn't
21 expect it to be anything less than that due to the
22 fact that it was, there was no preparation and it
23 was done very quickly and I understand was need was
24 huge and based on just having a hurricane coming
25 through. I'm curious have you notice, have you seen

2 any studies later than the 2010, earlier we heard
3 12, 2011, I was just commenting to my co-chair that
4 in technology is she knows better than I do you
5 know two years, three years is a lifetime. Have you
6 seen anything more recent than that?

7 ERIC FRIEDMAN: I, I will say that just
8 in, in, in preparing for, to appear today you know
9 the, I, the report prepared by Elections BC in
10 Canada you know was very thorough. I explore the
11 issue from pretty much every angle and, and raise a
12 lot of the same concerns about security at, at, at
13 multiple points of entry really. You know I, I
14 think like one of the real challenges when it comes
15 to security is, is, I mean you can do everything
16 you can and, and the best minds have been on this
17 you know in a defense context, in a financial
18 context, still people are saying on the server side
19 it's, it's really difficult to secure, to secure
20 the election, you know the data collection servers
21 to a level of risk that's acceptable. But you've
22 also got to secure every voter's home computer
23 which is, which is a really kind of practically
24 insurmountable challenge to guarantee the, the
25 authenticity of, of every voters vote you know and

2 most of the, a lot of the time you know when, when
3 you have malware or spyware you know infecting
4 someone's home computer they might cast a vote and,
5 and it could be, could looked at, you know they
6 could end up with a, voting for somebody different
7 they intended to they'd never know.

8 CHAIRPERSON CABRERA: Right.

9 ERIC FRIEDMAN: You know they could be
10 directed to phishing sites that may be purporting
11 to cast their vote but it ends up disappearing into
12 the ether. Yeah, so there, there's this... You know
13 all of it goes back to... [interpose]

14 CHAIRPERSON CABRERA: That would be a
15 pretty sophisticated operation wouldn't you agree?

16 ERIC FRIEDMAN: Absolutely. And then,
17 there, there'll people much more sophisticated than
18 I who... [interpose]

19 CHAIRPERSON CABRERA: Right.

20 ERIC FRIEDMAN: ...who, who play with this
21 stuff. So I, you know, these are the concerns that
22 are out there and so... [interpose]

23 CHAIRPERSON CABRERA: And they're real.
24 I mean they're, they're real concern and that's why
25 we need to have this type of early discussion so we

2 can start possibly begin to address them. I, I, it
3 always baffles me that we can put a man on the
4 moon, we did that decades ago, we could pretty much
5 every time we set our mind to do something we could
6 get there. I pretty sure, I don't foresee this
7 would be an immediate future but in the you know
8 not-so-far future hopefully someone could come up
9 with the type of software that would have this
10 level of protection and so I'm, I'm hopeful.
11 Council Member, Chair.

12 CHAIRPERSON BREWER: Thank you very
13 much. I am still going to the polls and formally
14 voting and definitely want the poll books to work
15 and what registration we can look at some executive
16 orders on the city level I think that would be
17 terrific. That's as far as I've gotten. But I have
18 one question about the, just something that I
19 should have asked the board but maybe through VAC,
20 I would like to see a lot more context as was
21 mentioned earlier in terms of letting people know
22 about poll site changes etcetera. And the board has
23 got the website you can put your email in and so
24 on. But how do you, I think the idea of using the
25 information on the net to keep your own

2 information updated is incredibly because people
3 change address, phone numbers, and emails often.
4 Has that worked, do you know? Or maybe you haven't
5 studied in other locations. Having a huge database
6 myself it's not easy to keep this information up to
7 date. So do you know if that works elsewhere or
8 have you had any studies of that? Because it's one
9 thing to say this is what we're going to do, it's
10 another thing to actually make it happen.

11 ERIC FRIEDMAN: Right. On this
12 particular issue I don't really have a, a good
13 sense of what's happening in other places. I can
14 say that you know we're definitely taking steps in
15 that direction here you know. The voter
16 registration forms have started to, have added a
17 line for email. So that, that creates a much kind
18 of easier and instantaneous way to, to stay in
19 touch with, with voters. You know we've been
20 collecting email addresses for voters as well and
21 communicating information about upcoming deadlines
22 and, and, and things of that nature. We, the Board
23 of Elections has been great in, in communicating
24 with us in terms of when, when poll sites change so
25 that we're making sure that the correct information

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2 is getting out to people through, through our
3 channels and, and helping to, helping to notify
4 people when, when there are changes. I mean I think
5 that there, there, there is much further we can go
6 in that direction and you know it's, it's step by
7 step we're trying to get there.

8 CHAIRPERSON BREWER: The issue for me is
9 that the culture has to change as the Council
10 Member indicated in the sense that the older voter
11 is not plugged into using social media in order to
12 know what's going on.

13 ERIC FRIEDMAN: Well... [interpose]

14 CHAIRPERSON BREWER: And so you know
15 maybe 10 years, 20 years it'll be different but
16 that's what it is now. And so all of these ideas
17 are great. We still have to use the same old as you
18 say your voter guide etcetera so is the means of
19 communication. So there [crosstalk] isn't a lot. I
20 would just caution you on one, your excellent
21 testimony about where it says we can create smart
22 databases that automatically share information
23 between government agencies. That will make voters
24 crazy. So you just have to really careful, maybe

25

2 qualify that but I would be very careful in that
3 statement.

4 ERIC FRIEDMAN: Yeah I, it... [interpose]

5 CHAIRPERSON BREWER: I'd throw that out.

6 ERIC FRIEDMAN: ...it could be phrased a
7 little better. I mean I think that Assemblyman
8 Kavanagh spoke a little bit about this. Just when
9 you interact with one government agency you know
10 that information can, can, can help keep the voter
11 rolls accurate and up to date. I mean... [interpose]

12 CHAIRPERSON BREWER: It does you just...

13 [interpose]

14 ERIC FRIEDMAN: ...one of the, one of the
15 things that we've found just from researching voter
16 behavior in New York City is that... I mean one of
17 the really strong factors in, in sort of depressing
18 voter turnout is mobility. Right? When you move, I
19 think you alluded to this, to this sometimes you
20 can lose touch.

21 CHAIRPERSON BREWER: Or, or die. I get a
22 lot of dead people return, deceased.

23 ERIC FRIEDMAN: Right right but when
24 you, when you change your address there's what
25 dozens of different forms you need to fill out to

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2 make sure that you are, keep getting your mail and
3 all your utilities and this is one thing that may
4 get kind of dropped off the list. Having that kept
5 up to date either automatically or, or having the
6 ability to change that online could go a really
7 long way to making sure that people who move even
8 within the city... [interpose]

9 CHAIRPERSON BREWER: No, I agree. Have
10 to be careful with health information and other
11 kinds of information doesn't get shared.

12 ERIC FRIEDMAN: Understood.

13 CHAIRPERSON BREWER: That's what I'm
14 saying. Alright thank you.

15 ERIC FRIEDMAN: Thank you. Thank you.

16 CHAIRPERSON BREWER: Thank you very
17 much. Now we're going to gavel out of this for one
18 minute the joint committee gavel in... [interpose]

19 [gavel]

20 CHAIRPERSON BREWER: ...to Governmental
21 Operations and ask the Council Member Dilan and his
22 beautiful child to vote.

23 COUNCIL MEMBER DILAN: Oh Lia you want
24 to vote? Yes?

25 LIA DILAN: [whispers] Yes.

2 COUNCIL MEMBER DILAN: Thank you
3 Chairman Brewer and Cabrera and I just want to say
4 to the chair before I vote. It's been a pleasure to
5 serve here with you twelve years. I understand this
6 may be your final hearing as Gov. Ops. Chair. I
7 also understand that you're onto some about bigger
8 and better things and I wish you well in, in those
9 endeavors and I know you will be great. And with
10 that Lia how do we vote? Do we vote yes?

11 LIA DILAN: Yes.

12 COUNCIL MEMBER DILAN: We vote yes on,
13 yes on both right? Say it. Say you say aye.

14 LIA DILAN: Aye.

15 COUNCIL MEMBER DILAN: Okay. [laughter]
16 Thank you Madam Chair.

17 CHAIRPERSON BREWER: Thank you very
18 much. That's a wonderful fitting end to our 12 year
19 relationship. Congratulations on all of your work
20 on housing and thank you very much. Thank you Lia
21 for voting today. Thank you. So we're gaveled out
22 of... [interpose]

23 [background comments]

24 CHAIRPERSON BREWER: Okay. Gavel...
25

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2 WILLIAM MARTIN: Vote now on...

3 [interpose]

4 CHAIRPERSON BREWER: Call the vote.

5 WILLIAM MARTIN: Vote now stands at four

6 in the affirmative, zero in the negative, and no

7 abstentions.

8 CHAIRPERSON BREWER: Okay now? Okay. So

9 now we're gaveled out of Governmental Operations...

10 [interpose]

11 [gavel]

12 CHAIRPERSON BREWER: ...and back into the

13 joint committee and thank you very much Council

14 Member Dilan.

15 [background comments]

16 CHAIRPERSON BREWER: Doug Kellner is the

17 next presenter, New York State Board of Elections

18 and the go to person on elections in the state of

19 New York and United States.

20 DOUG KELLNER: Thank you Chairman

21 Brewer. I appreciate the opportunity to speak with

22 you. I have written remarks which I will submit

23 this afternoon by email. There are four topics I

24 thought that I should address in summary fashion. I

25 hope I'm duplicating too much of what has gone

2 before. The first is to discuss internet voting
3 itself. Second is to talk about what we've been
4 doing with military voting and the restrictions on
5 that. The third is to talk about Governor Cuomo's
6 successful program in allowing voter registration
7 transactions over the internet through the
8 Department of Motor Vehicle's Database. And finally
9 discussions that we still hear from time to time
10 about New York City possibly having the scanning
11 machines themselves transmitting the results over
12 the internet which is worth just a minute of
13 discussion. So on internet voting itself there is a
14 short piece which I'm going to submit with my
15 written testimony written by David Jefferson who is
16 a computer expert at the Lawrence Livermore
17 National Laboratory called; 'If I Can Shop and Bank
18 Online Why Can't I Vote Online?'. Certainly there
19 are a lot of people who are not familiar with the
20 unique issues of voting technology that ask that
21 question all the time including I hear our mayor
22 say it from time to time. But the answer is is that
23 voting transactions are very different from the
24 financial transactions that we're now able to do
25 online. The biggest difference is that voting has

2 to be secret so that you are unable to determine
3 how a voter actually voted while still counting the
4 voter's vote. And that requirement for secrecy
5 means the transaction is essentially un-auditable.
6 And, and therefore not verifiable and subject to
7 hacking. When banks do financial transactions the
8 fact is, is they suffer losses all the time. And
9 the numbers are in the hundreds of billions of
10 dollars. These are losses that the banks are
11 willing to absorb as a price of doing business. And
12 the main difference here is that when there is a
13 bank transaction with a loss the money is missing.
14 So there have been many elaborate schemes that have
15 a, hacked into bank financial transaction systems
16 but the bottom line is that eventually someone
17 discovers that the money is missing. But when you
18 steal a vote and flip a vote from one candidate to
19 another candidate you can't prove that the vote is
20 missing because the vote was cast secretly. And so
21 that's the short summary explanation of why you
22 can't vote online. There are many expert reports in
23 this area and no one has successfully shown that
24 there is a fool proof system out there. When there
25 is we should embrace it but at this point in time

2 it's just not in the books. New York state law has
3 a provision as part of the election modernization
4 and reform act of 2005 that's very explicit on the
5 subject. Election Law 7-202 subdivision T provides
6 that the voting machine may not include any device
7 or functionality capable of externally transmitting
8 or receiving data via the internet or via radio
9 waves or via other wireless means. And that's a, is
10 a legal requirement in New York Law that basically
11 the voting machines have to be insulated from any
12 outside sources that could hack or compromise the
13 integrity of the process so that we are able to
14 assure accurate, verifiable, and transparent
15 election processes even though we use a machine. If
16 you don't have an audit trail that is verified by
17 the voter itself which we have in the form of the
18 ballot that the voter puts in the scan it, scanner,
19 in effect you have what they call black box voting
20 where you have delegated the function of counting
21 the ballots to the computer programmers who have
22 programmed the voting machine. And I remember that
23 two decades ago there was great criticism for, in
24 the United States of the Mexican system for
25 counting their ballots. Mexican voters would vote

2 on paper ballots. The ballot boxes would be locked
3 up and shipped to a central counting sight where
4 only the election officials could control the
5 ballots and count the ballots and then the election
6 officials would announce the results. And that was
7 not a transparent process and it was not a
8 verifiable process. And it was subject to great
9 criticism. I might add that Mexico has since
10 reformed and now has adopted verifiable voting
11 procedures and interestingly when they adopted
12 those verifiable voting procedures political
13 parties other than the party in power started
14 winning elections. So... Alright and my other quick
15 points on military voting. Pursuant to federal law
16 the states are required to allow military and
17 voters residing overseas to download their ballots
18 or to ask that their ballots be delivered to them
19 by email. And New York is in full compliance with
20 that system and our system has been working very
21 well. Some states have gone a step further and have
22 allowed military and overseas voters to return
23 those ballots by fax or email. New York has
24 reviewed and studied this option and we have
25 rejected it for the same reasons that, you will,

2 either the voter has to completely surrender voter
3 privacy and basically say this is my ballot and
4 then be able to confirm that the ballot received by
5 the Board of Elections is the same as the ballot
6 the voter has sent. Or there is the very real
7 possibility that transmissions can be intercepted
8 and ballots can be forged or substituted. As a
9 nationwide issue it may not be a, a, a big problem
10 because the number of voters is relatively small
11 and nobody is pointed to an election that where the
12 outcome is actually turned on the military ballots.
13 But New York takes the view is that we're, we make
14 it as easy as possible for the voter to receive the
15 ballot but the voter has to download the ballot,
16 print it out, fill it out, and then return it to so
17 that either by mail or some other physical means so
18 that the actual ballot with the voter's signature
19 is received by the Board of Elections. An example
20 of where we fully embraced internet technology is
21 Governor Cuomo's program which he instituted as one
22 of the very first things when he took office four
23 years ago was to allow voters to update their voter
24 registration status or indeed to fill out a voter
25 registration transaction through the Department of

2 Motor Vehicle's computer interface on the internet.

3 And there are very substantial and robust security

4 safeguards in that but the bottom line is that

5 voter registration transactions are public

6 transactions, they're not secret so that they're

7 auditable. And so far hundreds of thousands of

8 persons have availed themselves of that opportunity

9 to register to vote online through the DMV website.

10 And it's been very successful and I'm unaware of

11 any significant problems and no problems at all

12 with respect to fraud in the use of that internet

13 web procedure. And I thank Governor Cuomo for

14 breaking that log jam and bringing that very

15 substantial upgrade to the voter registration

16 process in New York. Final issue reporting results.

17 We've spent a lot of time this committee in

18 particular has been very proactive in terms of

19 urging the New York City board to improve and

20 upgrade its election night reporting system. And in

21 the last two years the city board has been very

22 responsive to that and now has in place an election

23 night reporting system that is very accurate and is

24 fairly quick but it's a significantly more accurate

25 than the old system. The current process is to

2 bring the memory sticks from the voting scanners to
3 the police precinct and upload them at the police
4 precinct. Many of us have suggested and, and the
5 board has been actively working on eliminating that
6 step of having to go to the police precinct. And
7 the, the ideal procedure in my view is for the
8 board to have a computer at each poll site, a
9 laptop or some other method of taking the memory
10 stick from the voting machines, inputting the data
11 into the computer at the poll site and then having
12 that computer upload the results to the board of
13 elections without having to go through the delivery
14 to the police precinct. And that would save a step
15 and in the long run would be less expensive than
16 the current process. Some have said well let's go a
17 step forward why don't we just put that device
18 right on the voting machine and have the scanner
19 itself upload those results? And the answer is that
20 if you could prove to us that the transmit, that
21 the output would only go in one direction and that
22 the voting machine itself could not receive any
23 communication from the outside that could trigger a
24 program that would change the results in the voting
25 machine I'd be all for it. But the fact is is that

2 there's no such thing as one way communication with
3 electronic data because in order to set up the
4 communication there has to be a handshake where the
5 person receiving the data says okay I got your
6 information we'll use this channel and this format
7 for transmission the data, go ahead, do you read
8 me? And they have to go back and forth to set up
9 that hookup. And it's that process of going back
10 and forth what they call the handshake where the
11 outside entity could then trigger something in the
12 machine that would insert a program or data that,
13 in, in essence could hack the results that are in
14 the voting machine itself. And so as far as I'm
15 concerned that particular procedure is not
16 acceptable until you can prove to me that it's
17 impossible to receive an outside signal that could
18 trigger a Trojan horse that's been buried into the
19 scanner. But I certainly do urge the city board to
20 move ahead with their project to take the memory
21 sticks from the machine and load them onsite into a
22 laptop for the transmission of the election night
23 results. So those are a quick summary of the four
24 issues that I think are relevant to the hearing

2 that you've raised today and I hope that that's
3 helpful.

4 CHAIRPERSON BREWER: As usual thank you
5 very much Doug Kellner. I have a couple questions
6 picking up on what you mentioned and so did Brian
7 Kavanagh which is regarding the DMV I understand
8 that between the executive order and the fact that
9 you already have a signature on your license that
10 issue of the signature is not a, a problem when you
11 register to vote because you have it on the license
12 and we are as a society agreeing that it's the same
13 signature on the registration form. But what we
14 want to do is how do we take that legally to the
15 next step. In other words for the social service
16 agencies etcetera where right now between the city
17 and the state we have this not monitored system of
18 signing up with the paper. So when you go to get
19 food stamps you want to be able to also sign up to
20 register to vote. Right now you get a piece of
21 paper, I know that doesn't happen, and that paper
22 goes, if it exists at all, God knows where. So I
23 guess my question is what's the legal step to try
24 to duplicate DMV with other agencies.

2 DOUG KELLNER: Well we have to actually
3 do it. As I say the governor did the DMV program by
4 executive order and through the executive
5 department and he had the National Voter
6 Registration Act, the so-called motor voter law
7 that explicitly authorized motor vehicle
8 transactions. We have similar statutes already on
9 the books in New York that apply to most other
10 government agencies where citizens interact. So if
11 the powers that be are willing to fund the process
12 and say yeah we're going to do it that can happen.
13 We also have in New York, since the year 2000 the
14 state technology law has adopted the uniform
15 electronic signatures act and basically that law is
16 extremely broad and underused and says that
17 electronic signatures are good for all transactions
18 with the state government unless explicitly
19 prohibited by law. So it switches the presumption.
20 So as I say very few people have used this. One of
21 the issues that we've thrown around at the state
22 board of elections is can you, do you have the
23 right to apply for an absentee ballot by an
24 electronic signature. And my answer is yes. The
25 law, there's no explicit requirement for an inked

2 signature on an absentee ballot. The, the same is
3 true that there's no explicit requirement for an
4 inked signature on a voter registration form. So,
5 so we believe that legally electronic signatures
6 are already in place and can be used for election
7 transactions. So it's just a question of funding
8 it. Now the governor used about three quarters of a
9 million dollars in state funds that came from the
10 DMV budget in order to put that into place. The
11 state Board of Elections is a small agency with a
12 very small budget and could not possibly absorb
13 that kind of charge without somebody appropriating
14 the funds.

15 CHAIRPERSON BREWER: And the money then
16 would be for doing the software, hardware
17 conversion essentially.

18 DOUG KELLNER: Correct. The link.

19 CHAIRPERSON BREWER: Okay. The other
20 question I have is in terms of the night of, So if
21 you, I, I totally agree that taking a, I call it a
22 flash drive memory stick from the scanner to a
23 laptop. So I guess one of the questions is we need
24 in my opinion to have a more, a broader discussion
25 about how to do that because in some situations you

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2 have lack of wireless or even just lack of whatever
3 it is that would prevent that laptop from working
4 at that site. You know I know these schools and
5 there's a whole bunch of issues. So is that
6 something that the board is looking at or is it, is
7 it not a problem that I... [interpose]

8 DOUG KELLNER: Well... [interpose]

9 CHAIRPERSON BREWER: ...may not be
10 somebody that you've looked at... [interpose,
11 crosstalk]

12 DOUG KELLNER: The city board...
13 [interpose]

14 CHAIRPERSON BREWER: It's very much in
15 the lease.

16 DOUG KELLNER: ...is looking at it. The
17 state board is not working on that, that aspect.
18 The city board is looking at it. I'm not sure just
19 how far along they are but you know one of the,
20 and, and you're right that the internet hookup for
21 that communication is one of the issues because...
22 You know is it going to be done?

23 CHAIRPERSON BREWER: You have thick
24 walls. You have many different issues.

25

2 DOUG KELLNER: Right. One of the, the
3 things that I've heard from ESNS is that for about
4 \$40 they could develop a plug in device that would,
5 that would take the memory stick and hook it up to
6 any mobile phone and then you could transmit the
7 results by mobile phone.

8 CHAIRPERSON BREWER: Oh okay.

9 DOUG KELLNER: So that's another way of
10 doing it.

11 CHAIRPERSON BREWER: Unbelievable.

12 DOUG KELLNER: But again are you, are we
13 going to give every site a mobile phone or are we
14 going reimburse people for using their own phones?
15 You know there are logistic issues. So it, it is
16 something that people at the city board I know have
17 been thinking about. And hopefully they'll have
18 some progress report on that soon.

19 CHAIRPERSON BREWER: Okay. Thank you
20 very much for your always concise testimony over
21 the years. Council Member Cabrera may have a
22 question but Doug I can't thank you enough for so
23 many years of support. This is our last hearing on
24 this topic Governmental Operations from my
25 chairship. And I just want to thank you for always

2 being there and I look forward to continuing to
3 work with you.

4 DOUG KELLNER: Thank you.

5 CHAIRPERSON BREWER: Thank you.

6 CHAIRPERSON CABRERA: Just one quick
7 question, brief question. In case, God forbid we
8 were to have another Sandy or something bigger and
9 the, the hit in New York would be something very
10 similar to what happened in Jersey because you know
11 they had it worse than we did. Would, would the use
12 of online or online technology will be something
13 that would be, would you amicable to the idea that
14 if, you know and just in case of emergencies
15 something like that could be used or is that out of
16 the, still out of this fear of consideration?

17 DOUG KELLNER: I, I, I, I thought it was
18 a bad idea when Jersey did it. My evaluation of
19 what happened afterwards is it was close to a
20 disaster because it, it actually had the effect of,
21 of disenfranchising literally tens of thousands of
22 voters who thought they would be able to
23 communicate that way instead of the extra effort of
24 going to a poll site or getting the absentee ballot
25 procedure. I thought the procedure that Governor

2 Cuomo used was much better. And, and Governor Cuomo
3 looked at it also and, and Governor Cuomo's
4 procedure of allowing the ballot to be cast at any
5 poll site on an emergency basis had the effect of
6 enfranchising about, between three and four hundred
7 thousand additional voters. And I thought that that
8 was very good and very well thought out. The Jersey
9 plan was a disaster because the county boards did
10 not have any of the resources so that email servers
11 were not available. They couldn't handle the volume
12 that was coming in. And then there was no way to
13 verify in the end and, and people pointed out that
14 New Jersey law required still a verification and,
15 and therefore anyone who did not subsequently print
16 out their ballot and mail it in had their vote,
17 their vote was not counted and, and that was in the
18 tens of thousands of people who fell into that
19 category. To use an electronic transmission system
20 it really needs to be worked out in advance. If you
21 can, the security needs to be worked out in advance
22 but you also need the hardware and the, and the,
23 and enough resources to do it and, and of course if
24 you work it out in advance then you also give
25 warning to the hackers in advance who can also

2 develop their methods to compromise the system in
3 advance.

4 [laughter]

5 CHAIRPERSON CABRERA: Exactly. Thank you
6 so much.

7 DOUG KELLNER: Thank you.

8 CHAIRPERSON CABRERA: That was really
9 very helpful.

10 CHAIRPERSON BREWER: Thank you very much
11 Doug. Susan Lerner, Kate Doran, and Susan
12 Greenhalgh.

13 [pause]

14 CHAIRPERSON BREWER: Yeah come on if you
15 already signed in go ahead. Whomever would like to
16 begin go ahead.

17 SUSAN LERNER: Okay so thank you very
18 much. I'm Susan Lerner, Executive Director of
19 Common Cause New York. I'm going to skip our
20 introductory information about our organization and
21 get right to the point. And that is that in recent
22 years national cyber security experts have sounded
23 increasingly urgent warnings that the internet is
24 highly insecure, impossible to safeguard
25 absolutely, rich with possible avenues of attack,

2 and rife with potential attackers. With alarming
3 frequency networks with the most robust security
4 protocols are being penetrated by attackers.

5 According to National Intelligence Director James
6 Clapper[phonetic] cyber attacks have surpassed
7 terrorism as the top threat to US national
8 security. Attackers have successfully penetrated
9 the most hardened and secured networks including
10 the CIA, FBI, Google, Sony, and the Department of
11 Defense. And I brought something which I copied
12 from the internet which was on CNN yesterday which
13 is, it was discovered that Chinese hackers hacked
14 into the Federal Election Commission website during
15 the time when the government was shut down. Just to
16 illustrate some of the challenges that we face.

17 It's naive to presume that a system designed for
18 voting over the internet can resist attacks more
19 successfully than the nation's most fortified
20 networks. Allowing ballots to be cast by email,
21 eFax, or through internet portals at least with the
22 current security tools is an invitation to partisan
23 operatives and nation states to tamper with the
24 integrity of our elections. And it was interesting
25 to me Council Member Cabrera that you pointed to

2 Estonia which has had a famous tick for tack
3 hacking exchange with the former soviet union with
4 the Russian Federation. So I'm not sure they're
5 necessarily the best example. The problem is
6 particularly partitions because it is unlikely that
7 such attacks will be discovered as both Assembly
8 Member Kavanagh and Commissioner Kavanagh pointed
9 out, Kellner rather, sorry. Because we vote by
10 secret ballot it would be difficult if not
11 impossible to detect a cyber-attack on an online
12 election. As the federal agency responsible for
13 setting voting system standards and researching
14 internet voting the National Institute of Standards
15 and Technology, NIST determine that too many of the
16 security challenges inherent with internet voting
17 cannot be resolved or adequately mitigated with the
18 computer security tools currently available. NIST
19 concluded that secure internet voting is not yet
20 feasible and more research is needed. Any claim by
21 a vendor that it has developed a secure internet
22 voting system is in direct contradiction to NIST's
23 best assessment after years of research and
24 analysis. Likewise the federal voting assistance
25 program at the Department of Defense doesn't

2 advocate for online voting for the military because
3 of the security risks. And basically I'd like to
4 just read the conclusion of that, that's a project
5 of the Department of Defense reached and that is
6 that electronic delivery of a blank ballot when
7 combined with the postal return of the voted ballot
8 remains the most responsible method for moving
9 forward until such a time as applicable federal
10 security guidelines are adopted by the EAC. We
11 should heed the cautions of our national and
12 computer security experts and recognize that
13 internet voting is just too dangerous in our
14 democracy too precarious to risk putting our
15 elections online. You know perhaps at some time in
16 the future as you've suggested these problems will
17 be solved but right now we really would be
18 tremendously at risk. I'd also like to address some
19 of the other topics that came up today that
20 obviously aren't in my written testimony. We are at
21 Common Cause strong supporters of the various
22 reforms which both Commissioner Kellner and
23 Assembly Member Kavanaugh mentioned. I, I didn't
24 bring with me, because I didn't realize we would
25 get into it, a report which Common Cause issued

2 just two weeks ago on early voting where we
3 interviewed the election administrators of
4 different counties where we thought that Common
5 Cause that the counties had some analogies to
6 situations we have here in New York with our voting
7 to see what their experience was with early voting.
8 And to hear directly from election administrators
9 who run early voting systems, how it works, and
10 what the challenges are. And I'd be happy to
11 provide both of your offices with copies of that
12 report because we think that'll, early voting would
13 address many of the concerns which you've raised
14 and certainly the concerns around super storm Sandy
15 and emergency situations. The people we spoke to in
16 Maryland pointed out that in Maryland there was a
17 surge in early voting very early in their early
18 voting cycle which was unusual and the election
19 administrator said that she went out into the early
20 voting centers and said you know why did you decide
21 to vote now as opposed to closer to the election
22 time. And she said that virtually everybody said to
23 her I've been watching the weather reports. There's
24 going to be a hurricane and I want to be sure that
25 I get to vote, it might interrupt voting on

2 election day. So early voting is an excellent
3 response. If we had had electronic poll books and
4 if we had had no fault absentee voting we would
5 have been able to do much more with people who were
6 displaced with the super storm Sandy. We were
7 prepared at Common Cause to, to hire vans and to
8 move people from the evacuation shelters to the
9 Board of Elections headquarters in order to file
10 absentee ballots. But we were stopped by the fact
11 that we would have had to ask them to lie that they
12 were outside of New York City on Election Day and
13 therefore we were unable to do that. If there were
14 no-fault absentee voting then there would be much
15 greater flexibility and I think many more people
16 would take advantage of that. And as to the
17 question of the full automation of voter
18 registration and tying it into more databases
19 Council Member Brewer that has been a topic of
20 discussion that the New York State Voter Coalition
21 has been talking about for a year or two and it
22 actually within the last year I had asked one of
23 our interns to do some research to determine if we,
24 outside of government, could identify which
25 agencies might maintain databases that had digital

2 signatures. It was very very difficult for us
3 outside of government to be able to identify and to
4 get cooperation from the city agencies to tell us
5 what was actually in their database. I think that
6 this is something which either the mayor's office
7 or one of the committees here at the council could
8 request this kind of information from the social
9 service agencies. To allow us to identify agencies
10 like the, the SNAP program where they're already
11 maintaining a database that has a digital signature
12 because we have been very concerned about the fact
13 that the DMV hookup which is very effective and
14 very useful disadvantages New York City residents
15 where you only have 50 percent of the residents who
16 have driver's licenses. And certainly what we have
17 seen in our registration drives is that the vast
18 majority of people that we find we help register
19 are people who have moved and that the best comment
20 we have found, when people pass by the registration
21 table, the way to get them to pay attention is we
22 say to them are you registered at your current
23 address? And a large percentage of people stop and
24 say oh my goodness you know I'm not. Gee, thank you
25 so much. So we end up spending a lot of time and

2 energy, which is great, helping people who have
3 moved say; oh I've meant to I haven't had a chance
4 you've made it convenient and I, I've done so. But
5 if they were able to do that with a change of
6 address at the DMV, which I think they can at the
7 DMV, but at other agencies or through the postal
8 service this would save a tremendous amount of time
9 and money and facilitate registration if we're
10 going to keep this cumbersome voter suppression
11 style of registration. Because frankly,
12 historically voter registration has been a
13 suppression tool and we should be moving towards
14 some form of universal registration or opt in
15 automatic registration rather than continuing the
16 vestiges of a system that was designed to prevent
17 the immigrant population of New York City from
18 voting.

19 CHAIRPERSON BREWER: Okay.

20 SUSAN LERNER: Okay?

21 [laughter]

22 KATE DORAN: Good afternoon. My name is
23 Kate Doran. I serve on the board of the League of
24 Woman Voters of the City of New York and I'm
25 delighted to be here today. Thank you very much for

2 holding this hearing, giving us a chance to
3 comment. We believe that internet voting may be an
4 ideal to which we could aspire because of
5 convenience and because of much of how we interface
6 with government is trending paperless. But we are
7 not confident that at this time there is an
8 internet system secure enough to merit extensive
9 and expensive appropriation of city funds and other
10 resources. What we now have is a voting system
11 which when well administered is accurate, reliable,
12 and secure. We believe that the city's resources
13 should be concentrated on improving the
14 administration of our paper ballot optical scan
15 system which others have noted is relatively new to
16 voters. So there's plenty of chances to, to make,
17 help voters become more comfortable with it. Now we
18 believe that the New York City Board of Elections
19 should be more proactive in seeking out
20 technologies that could support the system we
21 currently use. I sit in on the commissioner's
22 meetings every week and regularly more frequently
23 actually I hear them say that they are ministerial,
24 that they administer and we believe that they
25 should be proactive. One example I don't think

2 others have talked to much about this today but one
3 example that we would like to see is we would like
4 to see the city board investigate printing ballots
5 on demand. It's tangentially internet based but
6 voters are unified in their desire for a clear,
7 more legible ballot. Tiny fonts are necessary says
8 the board because they must print a single ballot
9 style in all covered languages. Ballots on demand
10 would solve the problem. Some have suggested I
11 think including Commissioner Kellner that the board
12 print a two language ballot but the board contends
13 that a two language ballot would be difficult for
14 poll workers to manage. With ballots on demand poll
15 workers would need to, only to know each voter's
16 language preference. Printing ballots on demand
17 would also mean that necessary changes to ballots
18 owing to lawsuits and people, could happen, that
19 those changes could happen much closer to the day
20 of an election event. So we urge the council to be
21 proactive here and to ask the board to give you a
22 report comparing the costs and the relative
23 advantages of printing ballots in advance which
24 they currently do. The printing, the trucking, the
25 whatever versus purchasing the technology which we

2 know is out there. DSNS, DS 2, 200 machine is we
3 understand capable of handling rank choice or
4 instant runoff voting. Here is another example of a
5 place where we believe the city Board of Elections
6 should be taking the initiative and we hope that
7 the council will nudge them along. I'm going to
8 quote now from our esteemed Doug Kellner. He
9 recently made a presentation to the New York City
10 board in which he said; The New York City Board of
11 Elections can administer rank choice voting. We use
12 the ESNS DS200 optical scanners to count ballots
13 and cast them at poll sites. The DS 200 machines
14 use the unity 5.0.0.2 software, both the hardware
15 and the software are capable of formatting and
16 recording ballots that use rank choice voting. The
17 New York City Board of Elections would only need to
18 develop a program to apply the statutory algorithm
19 to determine the final results not a particularly
20 difficult or expensive process. So we urge you in
21 the council to encourage the city Board of
22 Elections to develop such a program, to work with
23 the state, and to offer, and to offer whatever
24 assistance that is available and that you have the
25 authority to, to do. We are not ready to support

2 internet voting. We do however strongly support
3 online voter registration for all the reasons that
4 you've heard today. Paperless registration is more
5 accurate, more secure, and cheaper and we're
6 pleased about what the DMV has done. We also
7 learned recently that the New York state of Health
8 Market Exchange is allowing voters to register on
9 their website. Now I don't know if they capture a
10 signature but they certainly will capture people
11 who are disenfranchised by the DMV as, as Susan
12 Lerner mentioned because everybody's supposed to
13 get health insurance. And they have sensitive
14 information I don't know if they ask for a wet
15 signature. We suggest moreover that you ask the New
16 York City Board of Elections to report to you about
17 its goals and strategies for achieving greater
18 numbers of online registrations. Now our, our New
19 York State League supports early voting. We in the
20 city are on the fence a little bit. And we
21 understand that before the New York City Board of
22 Elections early voting would impose significant
23 additional burdens in jurisdictions where election
24 administration is already quite complex and
25 challenging. We believe however that for early

2 voting to succeed we must have electronic poll
3 books. And you, I know you've heard a lot about
4 that today. Ideally electronic poll books provide
5 real time information as to when and where a voter
6 has cast a ballot. But leaving aside early voting
7 electronic poll books could be the next evolution
8 in poll site registration lists. Since the board
9 started to photocopy voter signatures. I asked some
10 of the older members of our league among there are
11 quite a few and none of them could even remember
12 those cards. I think the board actually used to
13 bring an actual card to the poll site and compare
14 the signature. Now the signatures are photocopied
15 into those registration books. Now some of you know
16 that I serve as a poll site coordinator so I'm, I'm
17 very familiar with these books. And in my written
18 testimony I said that they frequently print
19 incorrect signature. I think that's a coarse
20 description. I really, what I meant was, people
21 come in, women who've been married and they're not
22 happy that their signature reflects a previous
23 identity and perhaps electronic poll books could
24 update that information more quickly. Sometimes
25 more often than we ever like to see there is no

2 signature at all. Now that's entirely the fault,
3 our fault. I'll call myself a Board of Elections
4 worker for that day and that's our fault and those
5 voters are very upset because we have to insist
6 that they vote by affidavit ballot or they could go
7 and get a court order. We have no way of, of
8 knowing who they are without comparing a signature.
9 And if it's not there and that, all of these things
10 create longer lines too. Every time we have to
11 interact with a voter whose signature is a problem
12 we have to have a conversation about it, we have to
13 calm them down and that creates long, much longer
14 lines on election day. Now redesigning poll worker
15 training and changing the deployment of poll site
16 staff must accompany technological changes to
17 election administration. And I'm sure you saw
18 Commissioner Kellner's excellent discussion of
19 that. We have testified, this League has, several
20 times in the past about on the topic of training
21 and we've put forth a model that would produce
22 better outcomes and could be internet based in so
23 far as the printing manual could be online and it's
24 a very public document. Poll workers would identify
25 themselves. People would, voters would identify

2 themselves as people who want to be... [crosstalk,
3 interpose]

4 CHAIRPERSON BREWER: So it's not online
5 now to the best of your knowledge?

6 KATE DORAN: It may be.

7 CHAIRPERSON BREWER: Okay.

8 KATE DORAN: It may...

9 CHAIRPERSON BRWER: It is. It's online
10 now.

11 KATE DORAN: It is. It is but it's no,
12 no, no prospective poll worker is encouraged to
13 take it, look at it, and then prepare themselves to
14 see if they want to be a poll worker. Email
15 communication can play a very important role as a
16 less expensive way to deliver important and last
17 minute notice to voters. So we congratulate the
18 state and city Boards of Election for agreeing and
19 deciding to include a field for voter's email
20 address on the paper registration form. And we hope
21 that the board will use this information
22 efficiently but we certainly don't think that they
23 should stop there. With political will and
24 dedication New York City can be a leader in a model
25 in technological advances in an election

2 administration while still keeping our paper based
3 system. So we thank you very very much and to meet
4 the technology committee before and since Gale
5 chaired it and we especially thank Chair Brewer who
6 with her unique skillset and persistence has made a
7 real difference. I can personally say that the
8 Board of Elections is a changed and better place
9 owing to her oversight and attention. Thank you
10 very much. Good, good luck to you.

11 CHAIRPERSON BREWER: Thank you very
12 much. I appreciate that. I think it's your
13 attention to the details as a policy wonk and an
14 actual poll worker. You're kind of unique.
15 Congratulations really.

16 KATE DORAN: Thank you.

17 CHAIRPERSON BREWER: Go ahead.

18 SUSAN GREENHALGH: Thank you. I'd like
19 to thank the committees and chairs Brewer and
20 Cabrera for the opportunity to testify today. My
21 name is Susan Greenhalgh and I'm from the Verified
22 Voting Foundation. Verified voting is a national
23 not-for-profit advocacy organization committed to
24 safeguarding democracy in the digital age. We are
25 fortunate enough to have on our Board of Directors

2 and our Board of, Board of Advisors some of the
3 most esteemed and prestigious computer scientists
4 and security experts. And we receive guidance on
5 voting technology issues from these people which
6 we're very happy to, to be able to resource. Our
7 boards include Doctors, Doctor David Jefferson,
8 Doctor Barbara Simons, and Doctor Aubrey Reuben.
9 All three of these scientists were asked by the
10 Department of Defense to review an internet voting
11 system for the DOD in 2004 which is referenced in
12 the report. The, these scientists wrote a report
13 warning that the system was insecure. It led to the
14 cancelation of the project by then Deputy Secretary
15 of Defense Paul Wolfowitz and citing the concern
16 that this was, was a national security issue and
17 that the legitimacy of the votes could not be
18 guaranteed. And in their report these scientists
19 basically said that the problem was not the system
20 that was being considered but it was the nature of
21 the internet itself. That the internet, the way it,
22 the architecture of the internet has developed over
23 the years as it's grown up it has so many different
24 vectors of attack or opportunities for
25 vulnerabilities that it is, it becomes almost

2 impossible to truly safeguard any type of internet
3 voting system with the security tools that we have
4 available today. Since 2004 they say at the end of
5 this there is really no good way to build a voting
6 system without a radical change in overall
7 architecture of the internet and the PC or some
8 unforeseen security breakthrough. And since then we
9 haven't had that unforeseen security breakthrough
10 or radical change in the architecture of the
11 internet. Instead we've had an increase in attacks,
12 an increase in organized cybercrime the organized
13 groups in, in, many in Eastern Europe that are for
14 hire to attack systems. And state sponsored cyber-
15 attacks as well making the internet a much more
16 dangerous place while at the same time we haven't
17 been able to catch up with the security tools. The
18 National Intelligence Director Mike McConnell
19 recently said the US is losing the cyber war. So
20 going to Chair Cabrera's comments earlier about
21 banking online and shopping online I believe
22 Commissioner Kellner and, and Assembly Member
23 Kavanagh also addressed that issue regarding the
24 inability to verify the voter's choice because we
25 don't, we vote by secret ballot and there's no

2 mechanism to verify it on the other end without
3 compromising voter secrecy. But there's another
4 point of that that I'd like to, to bring up in that
5 banking online is not truly safe and billions are
6 lost every year and billions with a B in online
7 banking fraud. If I just googled before I got up
8 here cyber bank fraud and numerous stories come up.
9 Three more major banks reported possible cyber-
10 attacks, Barkly Bank Theft Eight Arrested for
11 Alleged Hacking. JP Morgan Warns 465,000 Card Users
12 on Data Loss after Cyber Attack. This is constant.
13 It's happening all the time. On banks are able to
14 just factor that cost into the cost of doing
15 business. They take out insurance, they write it
16 off and they pay, charge you more on your fees to
17 pay for the cost. We can't do that with the voting.
18 We can't calculate a certain amount of votes that
19 we're going to lose to tampering or fraud or
20 deletion and just accept it. We can't, we can't
21 really tolerate any level of fraud. So we can't use
22 that model as a way of, of saying that we should be
23 able to, to bank, to vote online. I also want to
24 address the, the argument we hear a lot in that 30
25 plus states are allowing people to vote over the

2 internet or to transmit their voted ballots over
3 the internet and they're not having any problems or
4 they haven't been hacked and they haven't been
5 compromised and, or, Estonia hasn't been hacked and
6 hasn't been compromised. And the problem is we
7 don't really know because we can't ever go back and
8 ask each person did they vote this way and that
9 their ballot was not compromised. These states, or
10 many of these states put these bills in place way
11 before the, the cyber threat grew up as I explained
12 earlier that it, it's just continued to increase.
13 And now we're really understanding the depth and
14 breadth of this problem and it's not a place for
15 our elections to be at this point until we can have
16 those security tools that will make it, it, it
17 safe. And there are, it's the computer security
18 experts that are working on it. They're estimating
19 between ten and 20 years we may have a secure
20 system. But we're not there yet. There are vendors
21 that are out there that our selling their systems
22 because they want to make money and they're telling
23 us that their systems are absolutely or
24 impenetrably secure. And there's no way of, of, of
25 knowing that. The only system that actually was

2 subject to a white hat attack was also in, in your
3 report was the Washing DC system and hackers were
4 able to get inside within 36 hours. The other
5 systems that are on the market now have not been
6 subject to that type of publically reviewable
7 security test or penetration test or what we call a
8 white hat attack or red test, penetration test to
9 find out what the vulnerabilities are and what
10 their securities are, security level is. So we
11 don't really know. All we have is the vendor's
12 assurance that they're secure but there's nobody
13 else verifying that or, or some other way. There's
14 no federal certification process or security
15 testing on these systems because as people have,
16 have mentioned earlier the National Institute of
17 Standards and Technology has said we can't do it
18 securely yet. So they haven't set up a, a testing
19 or, or a standard system because they don't say we,
20 they say we can't do it yet. And just to, to speak
21 about Estonia briefly. The common, the cards that
22 you'd spoke about, the smart, smart cards; we're
23 not expecting the US would permit those type of
24 identity cards here yet. They may help with voter
25 authentication but they're not going to actually

2 allow the vote to be verified in a meaningful way.

3 But separately two of our board members did travel

4 to Estonia at the invitation of one of the parties

5 that was involved in the election. Then they

6 reviewed the system and did find vulnerabilities in

7 the security and, and possible avenues of, of

8 attack. They were not able to determine whether the

9 system had been compromised or not. They could find

10 the holes but they couldn't say whether anyone went

11 in or went out because any skilled hacker is going

12 to erase all their tracks which is another problem

13 with discovering if something has been hacked. It's

14 been estimated that most hacks are not discovered

15 for at least nine to 14 months after the attack

16 happens and that's if it's discovered at all. The

17 Chamber of Commerce was attacked and the Chinese

18 were exfiltrating data for it, from it for over 13

19 months before they discovered it just to give you

20 an example. So for that reason also the idea of

21 transmitting election results over the internet is,

22 is not advisable in our opinion or the, the opinion

23 of our security experts and with that I'll, I'll

24 close and I deviated from my written testimony

25 quite a bit so...

2 [laughter]

3 CHAIRPERSON BREWER: That was fabulous.

4 Thank you very very much. Yes, why don't you just
5 pull up a chair there. We have your testimony from
6 before. You gave it out.

7 [pause]

8 KATHERINE SCOBOCK: Good afternoon. My
9 name is Katherine Scobock[phonetic] and I'm
10 testifying on behalf of Theresa Hummel who was
11 unable to be here today. And I will be reading
12 excerpts from her three page testimony. And I want
13 to thank Gale Brewer and Fernando Cabrera and
14 members of the committee council. And Theresa
15 especially wanted me to congratulate you Gale
16 Brewer on winning the election and I do as well.
17 Thank you for allowing me to present testimony at
18 this important hearing. The New York City Council
19 has provided leadership in the past to ensure that
20 citizens could participate in and observe our
21 election procedures and could participate in the
22 selection of the voting equipment we now use.
23 Resolution 228-A of 2006 urged the New York City
24 Board of Elections to conduct public testing of all
25 voting equipment before purchase. Introduced by

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2 Robert Jackson it passed unanimously on August 16th

3 of 2006. Resolution 130-A of 2007 urged the New

4 York City Board of Elections to select paper

5 ballots and optical scanners as our city's new

6 voting technology rather than un-auditable

7 touchscreen voting machines. Introduced by Charles

8 Barron it passed unanimously on March 14th of 2007.

9 I urge you now to reject the idea of internet

10 voting because it is vulnerable to undetectable

11 fraud as you've just so beautifully heard and

12 because it prevent oversight of election procedures

13 by election administrators as well as citizens. I

14 urge you now to reject the idea that Democracy is

15 strengthened by convenience rather than by citizen

16 participation in oversight of our government and

17 find ways to strengthen civic education in our city

18 to increase both citizen participation and

19 oversight in voter turnout, representative

20 government, and the roll of we the people. In a

21 representative democracy the government needs to do

22 its work in public and the people need to show up

23 and observe and give guidance. Government behind

24 closed doors is easily corrupted. Our government

25 needs to not only be honest but to do its work in

2 public so that people can fulfill their work of
3 oversight. No computer connected to the internet is
4 secure. And I repeat as we've heard this afternoon;
5 no computer connected to the internet is secure.

6 The FBI computer crime survey of 2005 reported that
7 87 percent of organizations were aware that they
8 had security incidents in one year with 20 percent
9 having 20 or more incidents. 64 percent of
10 organizations lost money showing that the incidents
11 were serious not trivial. 44 percent had incidents
12 perpetrated by their own insiders. So this FBI
13 survey showed that our most knowledgeable
14 corporations can't achieve secure computers.

15 Computers are inappropriate for use in elections
16 because they introduce unmanageable risks and
17 vulnerabilities. It is an oversight of vote
18 handling and election procedures is impossible with
19 internet voting. Our election administrators cannot
20 run secure elections with computers without a voter
21 marked paper ballot and proper audits after each
22 election. The New York City council can take action
23 to revitalize our democracy. I urge the New York
24 City council to take action in the following areas
25 to improve participation of our people in all forms

2 of involvement with our government and in our
3 elections. A, require all our schools to teach age
4 appropriate civics starting in kindergarten so that
5 our people understand our governmental
6 infrastructure and the citizen's roll in oversight.
7 B, require all our schools to teach the skills for
8 lifelong sustained involvement so that individuals
9 are knowledgeable and feel comfortable about
10 staying informed, getting involved, showing up, and
11 speaking in the offices and hearing rooms of our
12 government. C, require our media to provide
13 impartial, unbiased, and full reporting of the news
14 relating to our governmental policies and actions.
15 So in conclusion I strongly recommend the rejection
16 of computer voting. Thank you.

17 CHAIRPERSON CABRERA: Thank you ladies,
18 very informative. Ms. Greenhalgh I, I really
19 enjoyed your testimony. You mentioned that you had
20 the scientists, the researchers, I don't know the,
21 I don't remember specific which of the two terms in
22 2004. Have you reengaged them since then to get an
23 update of their perspective? I'm very curious.

24 SUSAN GREENHALGH: Yes, those, those
25 scientists are, are, are on, on our, on our boards

2 so we, you know we work with them regularly. They
3 are constantly reviewing what's being published
4 about these systems. Some of our members of our
5 board have been able to have the privilege to look
6 at some of these systems in Estonia. There is a
7 system in the US that, that one of the board
8 members was able to look at. He had to sign a
9 nondisclosure agreement so that he couldn't really
10 publish anything about what he seen. Yes, but
11 they're, they're regularly involved in this issue
12 up until today.

13 CHAIRPERSON CABRERA: Why, why did they
14 say, why did they recommend that, or why did they
15 forecast that it would be 10 years? Is it because..
16 and I like the, the little phrase here of the
17 overall architecture of the internet. Is, is it
18 because of the architecture of the internet? Did
19 they foresee that ten years from now it will be a
20 major overhaul or because we're going to do better
21 what we have right now?

22 SUSAN GREENHALGH: Well that's an, an
23 interesting question because there is a project
24 being worked out right now at the, DARPA which is,
25 I'm sorry I don't know the accurate, DARPA's part

2 of the Department of Defense. It's being led by
3 Doctor Peter Kooiman who is also on our board which
4 is to develop a new internet. If you google it he,
5 he, there was a big story in the New York Times
6 Science section oh probably less than a, in, in the
7 past year that he's leading this, this project to
8 develop a new internet that's secure because it,
9 the internet grew up so quickly it was, it grew up
10 without the idea of security in it and that's why
11 it, it has inherently and fundamentally so
12 insecure. So that, that is one possible avenue. How
13 fast that'll develop well we don't know but look
14 how fast the internet developed this way.

15 CHAIRPERSON CABRERA: Right.

16 SUSAN GREENHALGH: But separately
17 there's, there are people working on end to end
18 verifiable, verifiably encrypted systems where the
19 voter would have an opportunity to have their vote
20 encrypted and then find out on the other end that
21 it was voted, that it was received correctly and
22 then tabulated separately. And these systems there
23 are, there are people researching them and working
24 on them. But the ones that are working on that are
25 estimating 10 to 20 years.

2 CHAIRPERSON CABRERA: Wow that's cutting
3 edge information and I, I will really appreciate it
4 if you could keep me informed as it gets developed
5 or if it gets developed.

6 SUSAN GREENHALGH: Yeah sure.

7 CHAIRPERSON CABRERA: If, if they end up
8 at their end game because really that's the kind of
9 information that I was looking for at this hearing.
10 I'm still hopeful and if it takes 10 years it's 10
11 years and I think it's important to have this level
12 of discussion. I, I think about my co-chair's open
13 data bill that, how long it took you to get, five
14 years and five years ago I know there were the
15 doubters who didn't think it could be done, how is
16 it going to be done and now it's a reality and it's
17 monumental. I mean it's historical in the
18 technology field to have such a bill go through. So
19 I'm, I'm looking forward for you know the experts
20 in, in organizations like yours to keep me updated
21 such as common cause you know all of you really.
22 Because that, that's is of our most importance I
23 think to, to work with what we have right now. I
24 think your suggestions and, and those who were made
25 by the state were brilliant and we need to work in

2 those because the voter turnout is, it's, when I
3 see what other countries are doing in, in terms...
4 When I see the amount of people that go vote and
5 when I see what we have here and we're supposed to
6 be the basket of democracy, you know the epicenter
7 of democracy. It just, it's, it's dishearten that
8 it's such a small group of the population of New
9 York City get to it like their elected officials.
10 And that might work for encumbrance to be honest
11 with you. But I, you know I'm really about seeing
12 that they're truly the base, you know majority of
13 people get to choose.

14 SUSAN GREENHALGH: And, and, and your
15 impetuous is one that we wholeheartedly support but
16 I have to share with you our experience working
17 with our members with an app that we develop to do
18 what's called crowdsourcing conditions at the
19 polls. We thought that it would help us in
20 monitoring what was going on and assisting the city
21 board. If we had some way in which people could use
22 their smartphones to tell us if there were problems
23 at the polls or to report that everything was okay.
24 And what we found to our surprise is that a smaller
25 percentage of voters actually have smartphones and

2 know how to use their full capabilities than we
3 expected.

4 CHAIRPERSON BREWER: Because they're all
5 old.

6 SUSAN GREENHALGH: Yeah well that's... So,
7 which tells us that technology may not be the
8 solution here but some of the basic, we have to go
9 back to some of the basics in terms of, and, and I
10 agree with Theresa, civics and more encouragement
11 from government. The modalities of communication
12 which the city has have not been fully exploited to
13 let people know when the elections are especially
14 if the craziness if we have three different
15 primaries again. That'd be madness. Or two
16 primaries next year. So I, it's very enticing to
17 look at technology as the solution and I think
18 there are things that technology can do but I think
19 that our problem in terms of voter engagement is
20 more basic than just a technological fix
21 unfortunately.

22 [laughter]

23 SUSAN GREENHALGH: And we're looking
24 forward to coming up with more creative solutions
25 and to... And one thing that I think the city has not

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2 done is fully engage the extraordinary brain trust
3 that is the, the tech meet up and the sort of
4 energy and pro-bono willingness that the technology
5 community here has to help is something that I
6 think the city could very profitably explore.

7 CHAIRPERSON CABRERA: I'm just thinking
8 about the next generation young people.

9 SUSAN GREENHALGH: Yeah.

10 CHAIRPERSON CABRERA: I have my four or
11 five year old grandchildren already playing with...
12 [interpose]

13 SUSAN GREENHALGH: On the iPhone.

14 CHAIRPERSON CABRERA: Yeah with the
15 iPhones... [interpose]

16 [laughter]

17 CHAIRPERSON CABRERA: ...with the iPads
18 and I think they're the, going to be the generation
19 that it's going to be more appealing to go ahead
20 and vote and it just makes it a lot easier. But I
21 hear what you're saying.

22 CHAIRPERSON BREWER: Thank you very
23 much. Susan I have a question just to keep updated
24 with this original signature.

25 SUSAN GREENHALGH: Mm-hmm.

2 CHAIRPERSON BREWER: Doug Kellner had
3 some suggestions but I think we need to look at
4 that really carefully and figure out which
5 agencies... [interpose]

6 SUSAN GREENHALGH: Yes.

7 CHAIRPERSON BREWER: ...can in fact use it
8 etcetera and can it be done on the city level or
9 only on the state level. The motor voters kind of
10 divided. You know there are some... [interpose]

11 SUSAN GREENHALGH: Well the city..
12 [interpose]

13 CHAIRPERSON BREWER: ...motor voter city
14 agencies... [interpose]

15 SUSAN GREENHALGH: Right.

16 CHAIRPERSON BREWER: ...and then obviously
17 there are the state agencies... [interpose]

18 SUSAN GREENHALGH: But there is a state,
19 there is a city... [interpose]

20 CHAIRPERSON BREWER: No, no I know.

21 SUSAN GREENHALGH: Yeah.

22 CHAIRPERSON BREWER: I'm aware of all of
23 that... [interpose]

24 SUSAN GREENHALGH: I know you are.

2 CHAIRPERSON BREWER: ...having
3 unfortunately been through it all... [interpose]

4 SUSAN GREENHALGH: Yeah.

5 CHAIRPERSON BREWER: ...about to go
6 through it again today. But I'm just saying we need
7 to figure out what we can do legally with each. And
8 we're both.

9 SUSAN GREENHALGH: Right.

10 CHAIRPERSON BREWER: And I just think
11 that something it's the Devil's in the details.

12 SUSAN GREENHALGH: Yeah I agree but I, I
13 think the, we're missing the basic information. As
14 I said we tried, we tried to put it together and
15 from outside or without help perhaps... [interpose]

16 CHAIRPERSON BREWER: We can do it.

17 SUSAN GREENHALGH: ...from this committee
18 or others. We couldn't get the agencies to give us
19 the information.

20 CHAIRPERSON BREWER: We will, we will
21 figure that out. And the other, and the other
22 question I had is how, do any of you think that
23 the, how soon can we work on this poll site
24 transition so that we can move the scanners to get
25 the information more quickly and also just a poll

2 book being electronic? What, what do you think in
3 terms of time? Either so can't cause you got the
4 on. You know the, the, the actual experience being
5 on the ground etcetera.

6 SUSAN GREENHALGH: One of the things
7 that we founded in our early voting report is that
8 several of the counties said that they found the
9 electronic poll books to be one of the most
10 important technology improvements which they had.
11 And that they found that was key, even more than
12 ballot on demand. But the two together they found
13 were most effectively, that they talked very
14 practically about needing lead time and needing the
15 ability to set up the systems well. Even with the
16 electronic systems it's not instantaneous.

17 KATE DORAN: Right. Anecdotally I
18 suspect that if we had a more technologically 21st
19 century poll site we may be able to encourage
20 younger people to want to be poll workers and that
21 would be, that's something we absolutely need. I
22 mean it, I really, I'm really very interested in
23 hearing the board do some, seeing the board do some
24 research on the printing ballots on demand.

25 CHAIRPERSON BREWER: Okay.

2 KATE DORAN: And I could hope that you
3 could... [interpose]

4 CHAIRPERSON BREWER: Yeah I, I think
5 this hearing I want to thank my colleague because
6 this hearing has turned into a really good
7 discussion about all the opportunities. And so it's
8 really helpful on the national perspective,
9 international and local and figuring out what our
10 can dos and what need to get done. So it's very
11 exciting to hear these possibilities.

12 I just wanted to briefly add that
13 before or until we do get online registration books
14 as one who has been involved in the voting process,
15 you mentioned Gale waiting in line at the various
16 places identifying your ED, then getting your
17 registration book signed, if at each EDAD in the
18 table when people line up to sign the book if there
19 is a problem let the problem person move to a
20 special person at that table to... [interpose]

21 CHAIRPERSON BREWER: Okay.

22 ...handle problems so that the rest of
23 the line can... [interpose]

24 CHAIRPERSON BREWER: That's the weeds.

2 That's, yes that's a very simple thing
3 that could be done.

4 CHAIRPERSON BREWER: Okay I, I don't
5 know if I can do that.

6 [laughter]

7 Okay.

8 CHAIRPERSON BREWER: I'm just saying.
9 That would be in the training process.

10 CHAIRPERSON BREWER: [mic static] weeds.

11 That's totally in the weeds because
12 with the... [interpose]

13 CHAIRPERSON BREWER: The weeds.

14 ...ballots have stub numbers on them...

15 [interpose]

16 CHAIRPERSON BREWER: Please I...

17 [interpose]

18 ...and what are we going to do? I mean I...

19 [interpose]

20 CHAIRPERSON BREWER: One day I took over
21 a poll site illegally and just started doing it you
22 know during the Obama. I used a four letter word, I
23 screamed it out and there were 800 people in line
24 and I just, now I, you know I did it four hours.

25

2 I had a volunteer who did that this
3 past election.

4 CHAIRPERSON BREWER: Yeah it's pretty,
5 [crosstalk] good one.

6 But on, I, I also would like to say
7 Madam Chair that it has been quite our delight and
8 pleasure to testify and to work with you and your
9 office. And I know whoever replaces you will
10 certainly be very capable but we're going to miss
11 you...

12 CHAIRPERSON BREWER: Thank you very
13 much.

14 ...as the chair of this committee.

15 CHAIRPERSON BREWER: Well I do want to
16 thank everybody. I certainly want to thank Dave
17 Seitzer, Tim Madisol[phonetic], Will Colegrove from
18 our office, Rob Newman my colleague, and everybody
19 who's been part of this committee. We done?

20 CHAIRPERSON CABRERA: What I want to say
21 thank you.

22 [laughter]

23 CHAIRPERSON CABRERA: Truly you know
24 from the technology committee on behalf of, of all
25 the, my colleagues we want to thank you. You got

2 this committee started, you were the chair, and you
3 stayed on. And truly you've been a mentor to Dan,
4 myself and, and, and those in the committee. I
5 truly wish you the best as the borough president of
6 Manhattan and I believe with your knowledge and
7 wisdom and work ethic I don't know any council
8 member that works harder than you. This is
9 lifestyle for you. This is more than a lifestyle,
10 this is an obsession for you. [laughter] And I want
11 to thank you. Thank you for all the hard work and
12 the last stated meeting there'll be more words to
13 be said.

14 CHAIRPERSON BREWER: Thank you very much
15 and congratulations everybody... [interpose]

16 [applause]

17 CHAIRPERSON BREWER: ...and it's all great
18 staff. Thank you very much. This is concluded.

19 [applause]

20 [gavel]

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C E R T I F I C A T E

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date January 08, 2013