

CITY COUNCIL  
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON TECHNOLOGY

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February 12, 2109  
Start: 1:25 p.m.  
Recess: 4:00 p.m.

HELD AT: Council Chambers - City Hall

B E F O R E: PETER A. KOO  
Chairperson

COREY JOHNSON  
Speaker

COUNCIL MEMBERS: Robert F. Holden  
Brad S. Lander  
Eric A. Ulrich  
Kalman Yeger

COPIC MEMBERS: Clayton Banks  
Steven Lewis  
Pauline Toole  
Dawn Barber  
Samir Saini  
Joanna Choi  
Ben Kallos  
Jeff Thomas  
Isidro Medina

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

Jeff Thamkittikasem, Director, Mayor's Office of Operations, MOO

Julia Stoyanovich, Assistant Professor of Computer Science and Engineering at New York University's Tandon School of Engineering

Julia Lane, Professor, CUSP & NYU's Wagner Graduate School of Public Service

Stefaan Verhulst, Co-Founder and Chief Research and Development Officer, Governance Laboratory, NYU

Gale Brewer, Manhattan Borough President

David Siffert, Research Coordinator, Center on Civil Justice at NYC School of Law

Angel Diaz, Counsel to Liberty and National Security Program, Brennan Center for Justice, NYU School of Law

Albert Fox Cahn, Executive Director of Surveillance Technology Oversight Project or STOP

Sumana Harihareswara, Owner of Changeset Consulting

Noel Hidalgo, Executive Director, New York City Civic Technology, Data and Design

Andrew Rasiej

1 COMMITTEE ON TECHNOLOGY

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2 [sound check] [pause] [gavel]

3 SPEAKER JOHNSON: Good afternoon. I'm  
4 Corey Johnson, Speaker of the City Council and Acting  
5 Public Advocate and I'm calling this joint hearing of  
6 the New York City Commission on Public Information  
7 and Communications COPIC, and the Committee on  
8 Technology to order. Will the Committee Counsel  
9 please call the roll for the members of the New York  
10 City Commission on Public Information and  
11 Communication, COPIC.

12 LEGAL COUNSEL: Sure. Clayton Banks.

13 CLAYTON BANKS: Present.

14 LEGAL COUNSEL: Steven Lewis.

15 STEVEN LEWIS: Present.

16 LEGAL COUNSEL: Pauline Toole. [laughter]

17 PAULINE TOOLE: Present. I have to turn  
18 it on. Present.

19 LEGAL COUNSEL: Dawn Barber.

20 DAWN BARBER: Present.

21 LEGAL COUNSEL: Samir Saini.

22 SAMIR SAINI: Present.

23 LEGAL COUNSEL: Janna Choi.

24 JANNA CHOI: Present.

25 LEGAL COUNSEL: Jesus Joe Madia. (sp?)

2 JESUS JOE MEDINA: Present.

3 LEGAL COUNSEL: Ben Kallos.

4 COUNCIL MEMBER KALLOS: Here.

5 LEGAL COUNSEL: Jeff Thomas.

6 JEFF THOMAS: Present.

7 LEGAL COUNSEL: Thank you. Looks like we  
8 have a quorum.

9 SPEAKER JOHNSON: Great. So, we have a  
10 quorum present, and I want to read an open statement  
11 for today's hearing. So good afternoon everyone  
12 again. I'm Corey Johnson, and I am the Acting Public  
13 Advocate the Speaker of the City Council, and the  
14 Chair of the Commission on Public Information and  
15 Communication also known as COPIC. I think that is  
16 enough titles to have. I would like to welcome you  
17 all to this meeting. Today we are joined by the  
18 Committee on Technology, the, the Council's Committee  
19 on Technology chaired by Council Member Peter Koo.  
20 COPIC was created in 1989 by the City Charter  
21 Revision Commission at that time. Its direct  
22 responsibilities include among other things improving  
23 government transparency, making recommendations on  
24 city information policies and educating the public  
25 about such policies. COPIC and the Council's

2 Committee on Technology are grappling with many of  
3 the same questions about the benefits and risks  
4 related to transparency and data sharing and our  
5 technologically advanced society. Data sharing is  
6 essential for research, education, cultural  
7 preservation and most importantly making better  
8 policies for the city. While the use of data has  
9 many important benefits, data sharing poses difficult  
10 challenges for privacy, security and fairness in our  
11 society. Privacy violations and security breaches  
12 can cause a wide range of harm and negatively affect  
13 New York City residents. Therefore, it is critical  
14 to develop policies that effectively balance these  
15 benefits and risks and enable the city to use data  
16 without unduly compromising sensitive information.  
17 It is equally important for COPIC to educate the  
18 public about those policies and to make  
19 recommendations to improve governmental transparency.  
20 Last session the New York City Council addressed  
21 privacy related concerns by passing several bills  
22 including Local Laws 245 and 247 of 2017, which  
23 created the position of New York City Chief Privacy  
24 Officer who recently issued citywide privacy  
25 protection policies and protocols. This is an

2 essential step towards ensuring that New Yorkers'  
3 personal information is protected. When COPIC was  
4 initially established, there was no way to envision  
5 that in the future algorithms would be used in making  
6 decisions and recommendations, including hiring  
7 decisions credit score calculations and even jail  
8 sentencing guidelines. The data used in such—in such  
9 a computerized approach is, however, not publicly  
10 available. As a result, it is almost impossible to  
11 challenge the decision made by algorithms.

12 Therefore, transparency in the automated decision  
13 making process is essential. In 2018, the City  
14 Council passed Local Law 49 by former Council Member  
15 Jimmy Vacca, the former Chair of the Committee on  
16 Technology, which created the Automated Decision  
17 Systems Task Force. The goal for the Task Force was  
18 to develop a process for reviewing the use of  
19 algorithms through the lens of equity, fairness and  
20 accountability. The Task Force is the first of its  
21 kind in the United States. That is an important step  
22 towards greater transparency and equity of—in our use  
23 of technology. The lack of standardization at the  
24 agency level for data governance and sharing and the  
25 lack of timely responses for data related requests—

2 requests often result in agencies and the Council  
3 having no means to access interagency data in an  
4 efficient manner. Together, we need to assess how we  
5 can develop data sharing policies, cyber security  
6 protocols, and proper infrastructure that would allow  
7 public access to the data while protecting the  
8 identity and privacy of New York City residents.  
9 More importantly COPIC look forward to hearing  
10 testimony from the public so we can ensure that our  
11 government is doing everything possible to use recent  
12 advancements in communication technology to further  
13 enhance the idea of open government. Today, we hope  
14 that the testimony provided by the public will  
15 provide the next Public Advocate—it can't happen soon  
16 enough—with a road map for the future of COPIC as an  
17 independent body that exists to review the city's  
18 data policies from the perspective of New Yorkers,  
19 the people. I would like to officially the public  
20 meeting of the Commission of Public Information and  
21 Communication, and at this time, I would ask for a  
22 roll call to be taken. It was already taken. We  
23 will start. Next, we are going to go to the Chair of  
24 the Committee on Technology my friend Peter Koo. I

2 want to recognize Peter Koo for his opening statement  
3 as part of this jointly called hearing today.

4 CHAIRPERSON KOO: Thank you, Speaker and  
5 Public Advocate Johnson.

6 SPEAKER JOHNSON: Acting Public Advocate.

7 CHAIRPERSON KOO: Yeah, Acting Public  
8 Advocate. [laughter] Good afternoon. I am Council  
9 Member Peter Koo, and I am the Chair of the Committee  
10 on Technology. Our committee and the Commission of  
11 Public Information and Communication often share  
12 their same goals and challenges. Today, we plan to  
13 discuss some of them including governmental  
14 transparency, data sharing and privacy. The New York  
15 City Open Data Portal is one of the tools that are  
16 most governmental, transparency and accountability.  
17 Currently, the New York City Open Portal is one of  
18 the most extensive in the world. The Open Portal—the  
19 Open Data Portal had approximately 17,000 datasets  
20 available to the public. The intention for open data  
21 is to make government more—more transparent,  
22 effective and accountable to the public. However,  
23 such a tool raises privacy concerns. Our aim is to  
24 balance benefits of data sharing, which, with risks  
25 (sic) to come of it. The Committee anticipates



2 having an open discussion with members of COPIC along  
3 with the public—general public on how city government  
4 can improve governmental transparency without  
5 compromising individuals' privacy. I look forward to  
6 hearing from COPIC members and panels today, and I  
7 would like to thank the Technology staff for putting  
8 together—for putting together this meeting. I'd also  
9 like to recognize the Technology Committee members,  
10 Council Member Lander, Council Member Ulrich and some  
11 are on their way. I would also like to—

12 SPEAKER JOHNSON: [interposing] I  
13 recognize aspiring Public Advocate Ulrich.

14 CHAIRPERSON KOO: Yeah and yes.

15 COUNCIL MEMBER ULRICH: Yes.

16 CHAIRPERSON KOO: Yes. [laughs] I would  
17 also like to thank our Acting Public Advocate for  
18 inviting the Technology Committee to this meeting.  
19 Thank you.

20 SPEAKER JOHNSON: Thank you Chair Koo. I  
21 now would like to call on the Director of Operations  
22 for the Mayor's Office, Jeff and I apologize if I  
23 mispronounce your name, Thamkittikasem.

24 JEFF THAMKITTIKASEM: That's good.

25 Thank you, sir.

2 SPEAKER JOHNSON: Who would like to make  
3 a statement about open data at Open Data Week.

4 JEFF THAMKITTIKASEM: Thank you Acting  
5 Public Advocate and Speaker Johnson for your  
6 leadership in convening this group. It's quite  
7 exciting to join all of you for this conversation.  
8 Thank you for the members—thank you to the members  
9 and the members of the public who are here. My name  
10 is Jeff Thamkittikasem. I serve as the Director of  
11 the Mayor's Office of Operations, and Operations is  
12 responsible for advancing the city's performance and  
13 project management efforts, coordinating complicated  
14 initiatives and also managing the 311 system, but  
15 most pertinent to today's meeting my office houses  
16 the Mayor's Office on Data Analytics, and the Mayor's  
17 Office of Information Privacy. For us at Operations  
18 especially for these two teams, the mission of COPIC  
19 is a very familiar one. Our Office of Data Analytics  
20 led by the Chief the city's Chief Analytics Officer  
21 works with DOITT to make public data accessible  
22 through the Open Data Portal in compliance with our  
23 Open Data Laws. Office of Information Privacy headed  
24 by the city's first Chief Privacy Officer advances  
25 responsible data sharing practices citywide, protects

2 the privacy of our personal and identifiable  
3 information as required by law. We're fortunate to  
4 sit at such a crucial intersection of expertise as it  
5 relates to data and making it public. It means we  
6 are able to help aid other agencies, make improves to  
7 their data management practices as well as steer the  
8 city's data strategy. It means we can make more data  
9 available to New Yorkers where lawful to do so, and  
10 enable more transparency and innovation across the  
11 city's five boroughs. As a city, we are constantly  
12 identifying publishing new public datasets,  
13 fulfilling the promise of city's Open Data Law to  
14 achieve transparent and good government with the  
15 technology tools of the 21<sup>st</sup> Century. Particularly  
16 in partnership with DOITT, MODA is the reason New  
17 York City has more public datasets available than any  
18 other city in the nation. NYC Open data contains  
19 more than 2,300 public available datasets and  
20 welcomes over one million users to the platform every  
21 year. Our Open Data Program is stronger with new  
22 legislation, and policies that bolster our commitment  
23 to transparency. We combing through FOIL related  
24 data so that information that belongs on open data  
25 gets on the portal. We're also actively engaging the

2 public to nominate new datasets onto our website.

3 We've leveraged MODA's strong presence in the civic

4 tech community to collect feedback from far and wide

5 and are encouraging agencies to actively promote open

6 data and engage with the public on data issues. I'm

7 proud that the Mayor's Office of Operations supports

8 this type of work in such a crucial way, and also

9 proud of our very dedicated staff who think—who work

10 every day toward the mission of making government

11 more accessible to everyone while still keeping their

12 personal information safe and protected. Given our

13 dedication to the Open Data Program and its progress

14 over the last five years, it's a great opportunity to

15 join together here, and think collaboratively about

16 the mission we share with COPIC in today's

17 datacentric world. We're also very excited to better

18 understand how COPIC and open data can fit into the

19 broader context of data usage and security strategies

20 and particularly how to better promote smart and

21 effective service delivery while safeguarding the

22 privacy of New Yorkers' personal and identifiable

23 information. I know the people in this room share

24 these goals. I'm really grateful to be a part of

25 this with all of you. I also just want to add that

2 the week of March 1<sup>st</sup> through the 9<sup>th</sup> is Open Data  
3 Week. I know some of our public speakers will also  
4 be referencing this, but we do this annually in  
5 collaboration with Beta NYC to celebrate the  
6 anniversary of Open Data Law. We are collaborating  
7 with dozens of community organizers across the city  
8 to highlight events ranging from art exhibits to  
9 project demos to student workshops. We've already  
10 confirmed dozens of events and are expecting more to  
11 come online in the next coming weeks. I want to  
12 encourage everyone here, and I encourage everyone  
13 here to get involved and spread the word about the  
14 event. It's a great showcase for how the Open Data  
15 Portal is being used by diverse communities for whole  
16 ranges of use cases, and really promotes the public  
17 to think thoughtfully about what other public  
18 datasets they'd like to see. So thank you for the  
19 opportunity, Speaker.

20 SPEAKER JOHNSON: Thank you very much,  
21 Jeff for that opening statement. Next, we're going  
22 to go to the DOITT delegate which is a member of  
23 COPIC. I would like to recognize Samir Saini from  
24 the Department of Information Technology and

2 Telecommunications, the Commissioner who would like  
3 to make an opening statement

4 SAMIR SAINI: Hello. I don't have a  
5 prepared opening statement, but again, just want to  
6 echo that I'm looking forward to the discussion to be  
7 part of this--this committee, and in line with Jeff's  
8 comments see what we can do, right-to help better  
9 increase the transparency right and access to--to the  
10 data that the public needs and wants. So, thank you  
11 for--for having me on this committee.

12 SPEAKER JOHNSON: Thank you for being  
13 here. I want to recognize the Council's appointee to  
14 COPIC, Council Member Ben Kallos.

15 COUNCIL MEMBER KALLOS: Thank you to  
16 Speaker Corey Johnson for your interest in the  
17 Commission on Public Information and Communications  
18 of COPIC. Speaker Johnson, you will only be serving  
19 as Public Advocate for 55 days and it is impressive  
20 that in your brief time you've focused on the Public  
21 Data Director and already fulfilled your Charter  
22 mandate. This is better than some public advocates  
23 have done in their full terms that were many more  
24 years, and so thank you. I'd like to also thank the  
25 Committee Counsel Irene Biowski (sp?), Patrick

2 Mulvihill, Jeff Baker for supporting this agency and  
3 today's meeting. I had the privilege of serving as  
4 the Council's appointee to COPIC. I-I-it's-it's the  
5 best appointment I think. It's really awesome. It  
6 where it's the best committee for nerds, and I want  
7 to thank our former Public Advocate Tish James for  
8 having held seven meetings. Now this agency, COPIC  
9 has gone unfunded dating back through multiple  
10 mayoralties, multiple public advocates. I joined  
11 former Public Advocate Tish James and Good Government  
12 Groups in requesting funding, and hope this year it  
13 finally gets funded. COPIC had a charter mandate for  
14 an Executive Director and General Counsel, and I hope  
15 we finally see those. This agency is-has a lot of  
16 responsibility, and I hope we hear during the public  
17 hearing about some of the things we can do in  
18 compliance with Section D relating to the  
19 availability and uses-usefulness of our city's data,  
20 and whether or not the city is adequately assisting  
21 in accessing such information. Would love to hear  
22 about data that's only available for inspection  
23 versus data that's already up on the portal, and  
24 ultimately, I think the thing that I am most excited  
25 about for this agency to one day to is to be an

2 analog to the State's Committee on Open Government.  
3 Robert Freeman is one of my favorite people on this  
4 planet, and it turns out that COPIC has a similar  
5 responsibility as being the agency that any New  
6 Yorker or elected official should be able to reach  
7 out to, to their general counsel to say what is your  
8 opinion on whether this information should be public,  
9 and whether that's police records or other  
10 information, it should be out there and COPIC should  
11 be there to help. So, I just—I'm very grateful for  
12 this meeting and hope for—for a lot to come from  
13 this. Thank you.

14 SPEAKER JOHNSON: Thank you, Council  
15 Member. Are there any other members of the  
16 Commission who would like to make an opening  
17 statement or remarks, contribute to the discussion  
18 before we start with the panels and everyone should  
19 feel free to talk if they want to. Also member of  
20 the Technology Committee, but also if you don't want  
21 to that's fine as well. Yes, Mr. Banks.

22 CLAYTON BANKS: [beeping sound] Yes,  
23 that's not part of remarks. So, I just wanted to  
24 first of all say good afternoon, and certainly to—to  
25 Corey for his leadership and all of my fellow



2 commissioners. My name is Clayton Banks and I'm the  
3 CEO of Silicon Harlem. I've been appointed by the  
4 five borough presidents to represent the citizens of  
5 our city, and for me COPIC provides not only the  
6 governmental transparency, but also our mission is to  
7 really provide public access to the information that  
8 this city generates. I've been hearing the word data  
9 a lot, and I'm—I'm probably conferring on them saying  
10 that data is not our core mission. Our core mission  
11 is to make sure that our data that we are collecting  
12 is transparent to the public. One statistic everyone  
13 in this room should know is that like Ben Kallos  
14 knows 50% of people in East Harlem do not have access  
15 to broadband and in a lot of ways don't have a  
16 computer in their home. So, communication to that  
17 public is really important and COPIC has a great role  
18 to play. A great example is—of transparency is when  
19 the great President Brewer came here and—and talked  
20 about casting and webcasting and all of this is also  
21 people with different abilities whether they're blind  
22 or deaf or anything else, and so there's a—a great  
23 responsibility that COPIC has beyond data. It's the  
24 human beings that we really concerned—are concerned  
25 about and their ability to understand what's happen

2 in the city on a day-to-day basis. Finally, I'll  
3 just simply say I'm proud to be a part of this  
4 Commission. I'm proud that I'm representing all of  
5 the boroughs, and I think it's probably the most  
6 vital thing we can as a city is to make sure that  
7 everyone has access and exposure to what's happening  
8 here. Thank you.

9 SPEAKER JOHNSON: Thank you very much for  
10 that--this is very wonderful. Anyone else want to  
11 make remarks before we go to the panel? Yes sir.

12 ISIDRO MEDINA: Good afternoon. My name  
13 is Isidro Medina. I'm Executive Director of the  
14 Washington Heights BID, and also Executive Vice  
15 President of Community Board 12. I am very confident  
16 that corporate can overcome a lot of the problems and  
17 challenges we face ahead. I do hope, however, that  
18 all information and--and all technology be accessible  
19 to communities that have been only neglected and are  
20 ignored. So, I'm looking forward to work with this  
21 Commission.

22 SPEAKER JOHNSON: Thank you, Mr. Medina.  
23 Thank you very much. Anyone else who would like to  
24 make any remarks? We've--we've also been joined by a  
25 member of the Technology Committee Council Member

2 Holden from Queens. Okay, seeing no other folks, we  
3 are going to go to the public testimony, and is there  
4 someone here—are there any Council Members? Okay.  
5 Is there someone here representing Borough President  
6 Brewer who was going to testify on her behalf?  
7 She'll be here in a little while. So, we'll go to  
8 the—the second panel, and the second panel is  
9 Professor Julia Lane, another Professor Julia  
10 Stoyanovich and Professor Stefan Verhulst. I  
11 apologize if-

12 COUNCIL MEMBER LANDER: I guess we have  
13 more professors than we usually have here at the City  
14 Council. [laughter]

15 SPEAKER JOHNSON: Well, I couldn't tell  
16 if it was C or an L. [laughter] Cane or Lane.

17 PROFESSOR JULIA LANE: [off mic] Lane.

18 SPEAKER JOHNSON: Lane.

19 COUNCIL MEMBER LANDER: Maybe we should  
20 switch to electronic sound--

21 SPEAKER JOHNSON: [interposing] Thank  
22 you, Professors for being here, and please you may  
23 begin in whatever order you'd like. If you could  
24 just please make sure your mic is turned that the red

2 light is on and you speak closely and directly and  
3 Identify yourself.

4 PROFESSOR JULIA STOYANOVICH: Alright.

5 So this is our collective pleasure to be here. Dear  
6 Speaker Johnson, Chair Koo and members of the  
7 Committee and Commission. The data revolution is  
8 transforming every sector of science and industry,  
9 but has been slow to reach local and municipal  
10 governments that deliver vital human services in  
11 health, housing and mobility. The opportunities of  
12 data drive algorithms this is making in urban context  
13 have long been recognized. Evidenced by the  
14 remarkable progress around open data, the digital-  
15 digitalization of government records and process and  
16 Smart city efforts that emphasize using sensors to  
17 optimize city processes. Despite this progress, the  
18 public sector is slow to adopt data driven technology  
19 for two related reasons both highly relevant to the  
20 topic of today's hearing. The first reason concerns  
21 the legal and technical difficulties inherent in the  
22 sharing of sensitive data both among government  
23 agencies and with external entities. The second  
24 reason is the government's mandate for responsibility  
25 meaning that any decision made by algorithms will

2 need to be scrutinized by the affected individuals,  
3 groups and the general public. In my testimony  
4 today, I argue that both barriers to adoption of data  
5 driven technology can be overcome by establishing a  
6 robust and flexible data sharing infrastructure.  
7 Consequently, establishing this infrastructure should  
8 be seen as a clear strategic and operational priority  
9 of New York City. My name is Julia Stoyanovich. I  
10 hold a PhD in Computer Science from Columbia  
11 University. I am an Assistant Professor of Computer  
12 Science and Engineering at New York University's  
13 Tandon School of Engineering, and also an assistant  
14 Professor of Data Science at MS (sic) Tech for Data  
15 Science at the NYU. In my research in teaching I  
16 focus on responsible data science on incorporating  
17 legal requirements and ethical norms including  
18 fairness, accountability, transparency and data  
19 protection into data driven algorithm decision making  
20 some of the students who are enrolled in my  
21 responsible science course at the NYU are here today.  
22 I am an appointed member of a task force established  
23 in response to Local Law 49 of 2018 in relation to  
24 automated decision systems used by agencies, the ADS  
25 Task Force. My opinions in this testimony while

2 informed to some extent by my work on the ADS Task  
3 Force are my own, and do not represent the view of  
4 the Task Force. My testimony will be complemented by  
5 statements from my distinguished colleagues, Julia  
6 Lane, Professor at the Wagner Graduate School of  
7 Public Service at NYU; Stefaan Verhulst, Co-founder  
8 and Chief of Research and Development at Gov Lab, an  
9 action research center at NYU. I would like to make  
10 three points. The first is that establishing a  
11 robust and flexible data sharing infrastructure  
12 should benefit multiple stakeholders. The second is  
13 that there is a continuum of data sharing modalities  
14 that range between open data and the secure data  
15 clean room environment and this continuum needs to  
16 explore as part of infrastructure design. Third is  
17 the developing the data sharing infrastructure will  
18 require technological innovation buy-in from city  
19 stakeholders and public engagement. To my first  
20 point government agencies, one of the stakeholders  
21 needs to share data to make decisions more  
22 effectively and to enact policy and coordination.  
23 Regulators, of course, need access to agency data for  
24 purposes of oversight. In both cases much of the  
25 data is sensitive, and so is legally encumbered.

2 This data if it contains personally identifiable  
3 information or is anonymized, but will not guarantee  
4 privacy when linked with other data. Equally as  
5 importantly the public needs access to data in  
6 support of algorithm transparency. Recent reports on  
7 data driven decision making under score that fairness  
8 and equitable treatment of individuals in groups is  
9 difficult to achieve, and the transparency and  
10 accountability of these processes in government is  
11 indispensable but rarely enacted. As a society, we  
12 cannot afford the status quo. Algorithmic bias in  
13 administrative processes limits access to resources  
14 for those who need those resources most, and  
15 amplifies the effects of systemic historical  
16 discrimination. Lack of transparency and  
17 accountability threatens the democratic process  
18 itself. New York City's ADS Transparency Law  
19 initiates and meaningful responses to these threats,  
20 and other U.S. municipalities are watching and are  
21 likely to follow with similar laws and  
22 recommendations. Of utmost importance as this  
23 happens is recognizing the central role of data  
24 transparency in any algorithmic transparency  
25 framework. Meaningful transparency of algorithmic

2 processes simply cannot be achieved [bell] without  
3 data transparency, and data transparency in turn  
4 cannot be achieved without the robust and flexible  
5 data sharing infrastructure. My second point is that  
6 here's a continuum of data sharing modalities between  
7 open data and secure data sharing environments like  
8 data clear rows. (sic) An argument based on data  
9 transparency in service of algorithmic transparency  
10 is (1) that we need to give the public access to  
11 datasets on which algorithms are trained and  
12 validated. However, giving the public access to this  
13 data may be intention with privacy regulation. That  
14 is in light of this, a data sharing infrastructure  
15 can offer an alternative modality to simply sharing  
16 the training and validation data sets. When raw  
17 datasets cannot be exchanged or re-or released,  
18 relevant statistical properties of these datasets can  
19 be exposed or they-in-in essence as datasets or data  
20 summaries, using state-of-the-art methods to preserve  
21 the privacy of individuals included in the data.  
22 Additionally, it is possible to develop access  
23 control and usage control mechanisms for trusted  
24 environments. A carefully designed data sharing  
25 infrastructure can be made to support multiple size



2 modalities. My third and final point is brief. When  
3 developing a data sharing infrastructure we must  
4 consider the legal, societal and technical aspects of  
5 the challenge. A solution will entail engaging  
6 technology experts, building competencies and  
7 incentives within the city and developing government  
8 structures. My colleagues Julia Lane and Stefaan  
9 Verhulst will discuss these aspects in their  
10 statements. To conclude, I recommend that the city  
11 consider the development of a data sharing  
12 infrastructure as a strategic and operational  
13 priority with the goals of increasing efficiency of  
14 delivery of human services, and supporting  
15 transparency and accountability to the public, thus  
16 increasing the public's trust in government.  
17 Developing this infrastructure will require  
18 significant investment, which would be amortized so  
19 as to benefit multiple city and external  
20 stakeholders. Different data sharing scenarios would  
21 require different sharing modalities including open  
22 data; privacy preserving synthetic data and  
23 summaries; access and usage control mechanisms and  
24 secure data clean rooms. Thank you.

2 SPEAKER JOHNSON: Thank you Professor.  
3 Professor Lane.

4 PROFESSOR JULIA LANE: Hello, Chair Koo,  
5 Acting Public Advocate Johnson and members of the  
6 Committee and Commission. So, I'm delighted to be  
7 here. Thank you for having us speak. I think like  
8 my colleagues, I would like to make three key points  
9 and I'll make them as during this discussion. The  
10 key points are essentially that the way in which  
11 government does business has lagged behind that of  
12 the private sector. In the private sector the—the  
13 largest businesses are now businesses that produce  
14 data not things, and yet in the public sector  
15 unfortunately our ability to use and produce data has  
16 been not kept pace, and think there are there three  
17 reasons for that. One is that the technology to—to  
18 share confidential data across agency and  
19 jurisdictional lines does not—has not been fully  
20 exploited. The second reason is that the workforce  
21 capacity within government agencies has not kept pace  
22 with the needs of using the data, and the third has  
23 been that our ability to produce measures that are  
24 valued by the community that the governments serve  
25 has similarly lagged—lagged behind. So, in each one

2 of those three areas, we have a great deal that can  
3 be done and that has been done, and so the message  
4 here is that if the committee and the commission zero  
5 in those three things, and leverage existing  
6 activities these barriers can be addressed relatively  
7 straight forwardly and we have the infrastructure to  
8 do so. So, let me speak a little bit about my  
9 background. I am a professor, as you know at NYU,  
10 and I'm also half time work with the federal  
11 government with the Office of the Chief Statistician  
12 and the CIO in the White House, and—and I've been  
13 primarily working with them on the federal data  
14 strategy, and the implementation of the recently  
15 signed Foundation to the Evidence-Based Policy Act.  
16 So, clearly these issues resonate at federal level  
17 just as much as they do with every state and local  
18 government with which I've worked in career, which I  
19 many look like I'm 25. I'm a little bit older than  
20 that. So, it's been close on 30 years, and what I've  
21 been primarily involved in is working with combining  
22 government administrative data in a secure way  
23 building workforce capacity within government  
24 agencies, and producing measures that have done it.  
25 So, what can we build on? Well, there are three

2 areas as I said: Technology, workforce, community  
3 engagement. On the technology side the federal  
4 government has actually invested substantial amount  
5 and indeed worked with us to develop an  
6 Administrative Data Research facility, the Fed Ram  
7 procedures that enable the secure sharing of  
8 government data being accepted, and are being used by  
9 government agencies across the country and indeed New  
10 York. The—so many of those technologies, as my  
11 colleague pointed out [bell] have been used. The  
12 second piece is building the workforce capacity to  
13 join data across agency lines. It—90% of the work is  
14 not just getting the data, but it is people  
15 understanding how to link the data where the errors  
16 can be made to algorithmic decision making that  
17 they're an issue, but also making a million decisions  
18 about how to handle what turns out to be very dirty  
19 data, and that needs to be done by the agencies  
20 themselves, the staff in the agencies themselves  
21 because they're cold face. They're the ones who have  
22 to deliver products that have value to their  
23 constituencies. They understand the pluses and  
24 minuses of different sets, and they're the ones who  
25 have to at the end of the day work across agency

2 lines to produce something that has value to their  
3 constituency. I'm going to give you a brief quote.  
4 I cannot over-emphasize how important that is. In  
5 the city of Baltimore, and you'll see it in my  
6 testimony, the Commissioner of the—the Health made a  
7 comment to a colleague of mine that every time a  
8 child dies in the city and Baltimore is quite a  
9 violent city, every time a child dies in the city,  
10 the commissioners from the different agencies that  
11 touched that child, for example, education,  
12 homelessness, criminal justice, welfare and so on,  
13 they get together with a fat file on the kid to find  
14 out what they could have done differently. But the  
15 only time they get together is when the kid is dead.  
16 So, think about how much we could do if that child  
17 were alive. So, it's critically important to think  
18 about privacy, of course, but it's also critical  
19 important to think about how we can intervene in the  
20 trajectories of children's lives and—and citizen's  
21 lives, and the agencies understand more than any of  
22 us in many ways how to do that. And then the third  
23 piece as was quite eloquently said is community  
24 engagement. The communities need to be able to  
25 understand how the indicators are being generated,

2 and how to develop indicators that aren't done in a-  
3 in a cold little dark room, but in which there's  
4 engagement and a communication back and forth, and we  
5 can do that as well, and, in fact, we've built the  
6 Administrative Data Research Facility. We've build  
7 and applied data analytics from across the country  
8 that's been very successful. These provide models  
9 that community engagement work was done with  
10 technology. So, thank you very much indeed for  
11 having me.

12 SPEAKER JOHNSON: Thank you very much  
13 professor for being here, and for your very  
14 thoughtful and helpful testimony today, and next we  
15 have Professor Verhulst.

16 PROFESSOR VERHULST: Thank you very much,  
17 Speaker Johnson, Chairperson Koo and members of the  
18 committee and commission. It's always daunting to  
19 follow distinguished professors Julia Lane and Julia  
20 Stoyanovich. So, I will try to add value to what  
21 they already have said, which—by which I mean I won't  
22 specifically focus on some of the topics that I have  
23 focused on. So, I will not try to focus on these data  
24 responsibility questions, now will I try to focus on  
25 the technical questions, which, of course, have

2 already been address, but what I will try to focus on  
3 are four questions. The first question is: Why  
4 should New York City care about data? The second  
5 question that Ill try to answer and focus on is: If  
6 you build a data sharing infrastructure, will they  
7 come. The third question that I will try to focus on  
8 is: What about private data instead of an—an addition  
9 to public data? And then the last question, which is  
10 there's a question that might have already been  
11 answered is: Is technology the solution? As  
12 mentioned, my name is Stefaan Verhulst. I'm the co-  
13 founder of Gov Lab, which is an action research  
14 center based at New York University, and I'm also a  
15 resident of New York City for the last 20 years in  
16 Park Slope. The first question is: Why should data  
17 be imported for New York City, and has already been  
18 answered by the mandates because of government  
19 transparency, but what I would like to argue, which  
20 also has been mentioned before is that data matters  
21 more than just government transparency. If used  
22 responsibly, data can transform the way we operate as  
23 a—as a city government, and can also transform the  
24 way the city is managed specifically because of four  
25 reasons. One, data provides for a better

2 situationally analysis. Two, data allows us to  
3 understand cause and effects such as for instance we  
4 would understand why certain vulnerable populations  
5 are more like to—to get harmed. Three, data allows  
6 us to also make predictions so that we can be more  
7 targeted. So, it's actually investing and preventing  
8 certain kinds of events of happening; a fourthly,  
9 data also allows us to assess the impact of  
10 interventions in a far more superior manner Now,  
11 those four value propositions are common to many of  
12 the members of those commissions, but they are not  
13 well understood by many city officials and people  
14 working within government. And toward that end, what  
15 we would recommend is to really provide for an urban  
16 evidence-based within the city on how the city has  
17 used data and can use data moving forward so that  
18 this becomes a movement around calling for more data  
19 in order to ultimately change the way we govern. And  
20 secondly, we also would recommend not just to have a  
21 directory of datasets, which is essential, and it's  
22 very important that this committee has advocated and  
23 implemented a transparency in regard to the data that  
24 is being held, but we also advocate a directory of  
25 expertise within the city that ultimately would



2 understand who can help? If there is a clear value  
3 proposition, what is the expertise that is  
4 distributed across the city with regards to data  
5 science and with regards to the understanding the  
6 value of the data. The second question that I would  
7 like to—first is if you build a data sharing  
8 framework or an architecture, will they come? And  
9 obvious I guess many of you can guess the answer to  
10 that: Not necessarily because to a large extent, and  
11 this is lessons that we've learned from open data as  
12 well and at Gov Lab we've done a little assessment of  
13 the value of open data infrastructures is that  
14 ultimately you need to establish a demand side for  
15 the infrastructure that you're building, and too  
16 often we are building an infrastructure without  
17 really understanding what is the demand, what are the  
18 use cases. And quite often at Gov Lab we made the  
19 joke: It's great to have a 100 datasets. What I  
20 really would like to have are 100 questions that  
21 matter that if answered through the data we would  
22 make progress. So my recommendation would be to—for  
23 every agency to at least list 10 questions that they  
24 are trying to answer, and then then subsequently the  
25 data can be released or made available in a secure

2 manner to start answering those questions so that  
3 you—next when you have a committee meeting you can  
4 actually see these are the 100 questions that if  
5 answered, New York City would be better off. The  
6 third question is what about the private sector? And  
7 clearly, much of the data that is being collected and  
8 generated these days does not reside within the  
9 public sector, and so for the last three years we've  
10 been trying to understand how can you also unlock  
11 private sector data for public good? And this is the  
12 work that we've done within the concept of data  
13 collaboratives because clearly this is a different  
14 proposition than open government data, and to which  
15 that end, you really have to start looking at new  
16 kinds of public/private partnerships, which we call  
17 data collaboratives. So, my recommendation to the  
18 committee is to really understand how can you  
19 establish city data collaboratives? Many cities  
20 around the world are looking to that question, and  
21 really trying to understand how can you engage the  
22 private sector whether these are telephone operators,  
23 whether these are banks or whether these are  
24 transportation companies, how can you engage them  
25 around the data to understand the city better and

2 actually improve the city? This also requires a new  
3 kind of function within corporations, which we call  
4 data stewards and so one of the recommendations would  
5 be is to hold convenings, and perhaps even develop a  
6 network of data stewards within the private sector so  
7 that you can engage and have some kind of a liaison  
8 with the private sector around that data. And then  
9 the last question is, of course: Is Tech the answer?  
10 Is technology the answer to some of those problems?  
11 Likely so as already mentioned, but not sufficiently  
12 if only tech is the answer because this is ultimately  
13 about change management. This is about cultural  
14 change, and so towards that end, we also have to  
15 understand what are the metrics of success and more  
16 importantly, how can you embed the change that you  
17 want to have in performance reviews at the individual  
18 and at the agency level so that you ultimately can  
19 establish the change that is necessary, and it also  
20 requires another cultural change, and change  
21 management strategies, and towards that end for  
22 instance the committee might think about organizing a  
23 Data Stewards of the Year Award that would really  
24 name and fame. Good practice as opposed to name and  
25 shame, and those that might fail. So with that, I'm

2 going to stop here and thank you for this  
3 opportunity.

4 SPEAKER JOHNSON: Thank you to all three  
5 of you. We have a bunch of questions from both  
6 Council Members who are part of this committee and I  
7 want to say that we're joined by Council Member  
8 Kalman Yeger, a member of the Committee on  
9 Technology. Thank you for being here Council Member,  
10 and the first person to have some questions is the  
11 Chair of the Committee on Technology, Chair Koo.

12 CHAIRPERSON KOO: Thank you Speaker  
13 Johnson, yeah. So, Professor Lane-Lane, yeah, yeah,  
14 can you tell us more about your experience and  
15 obstacles than you have faced in implementing the  
16 Data Sharing Initiative?

17 PROFESSOR JULIA LANE: What a great  
18 question. [laughter] I could go on. I will try and  
19 keep it brief. Let me give you a little bit of  
20 context. I've spent a career, as I said, linking  
21 data across jurisdictional and agency lines. So the  
22 LEHD Program we brought together unemployment  
23 insurance wage records from all 50 states linking  
24 them tax data, IRS W-2 records to business data since  
25 Spyro to Social Security Administration data and to

2 many other datasets, and we did it in a secure,  
3 confidential privacy protected way. The—the biggest  
4 barrier was not technical because the technology  
5 exist to do so. The biggest barrier was figuring out  
6 how to do so in a way that was consistent with the  
7 agencies, those different agencies' mission and that  
8 created value back to the agencies. So, once you've  
9 figured that out, and you get the agency buy-in  
10 because the agency staff had committed to doing what  
11 has value to the agency and to the citizens they  
12 serve. Once you figure out, that's the biggest  
13 barrier. Once you figure that out, the legal and the  
14 technical and the social issues can—can be addressed.

15 CHAIRPERSON KOO: Thank you, yeah. So,  
16 what-what-what kind of advice you would give us?

17 PROFESSOR JULIA LANE: So the same advice  
18 I gave to the Commission on Evidenced-Based policy  
19 when they were put together by Paul Ryan—Speaker Paul  
20 Ryan and Senator Patty Murray. What you need to do  
21 is to figure out what data sharing activity will  
22 create value relatively quickly and demonstrate the  
23 value of linking the data. So the particular use  
24 case so you want—you want to get some numbers on the  
25 board. You want to get some wins that showed the

2 value. So, the-the very first project that we  
3 started on to inform the decision making of the  
4 Commission was the following? There were four  
5 agencies that were interested in using data across  
6 agency lines: Justice, Bureau of Justice statistics;  
7 Labor, Housing and Transportation. So here was the  
8 core set of questions that was asked. What is the  
9 impact of access to jobs and neighborhood  
10 characteristics on the earnings and employment  
11 outcomes of X offenders and welfare recipients, and  
12 their subsequent recidivism and/or retention on  
13 welfare. It's a pretty straightforward question, but  
14 it requires linking data across agency lines, and the  
15 agencies then have to come together to be able to  
16 answer those questions, and-and work together. So,  
17 we developed classes, and applied data analytics  
18 classes around those questions. We very quickly  
19 developed a series of prototype, a pipeline of  
20 prototype products that could help answer those four  
21 questions and that helped convince the agencies and  
22 obviously the citizens that they served that-the  
23 issues could be addressed.

24 TRANSLATOR: Thank you, Chair Koo. There  
25 are a lot of folks that have questions. So, we're

2 going to keep moving. I'm going to go to Council  
3 Member Kallos next. Council Member just if you could  
4 keep it just to a few questions just so we can get to  
5 everyone as part of the Committee and the Commission.

6 COUNCIL MEMBER KALLOS: Thank you,  
7 Speaker and Public Advocate—Acting Public Advocate  
8 Johnson. I have a question to Professor Julia  
9 Stoyanovich relating to increasing efficiency of  
10 delivery of Human Services. In particular, I'm  
11 working on something called Automatic Benefits--

12 PROFESSOR JULIA STOYANOVICH: Uh-hm.

13 COUNCIL MEMBER KALLOS: --which would  
14 with Stefan and the Gov Lab and seeing I can pull you  
15 into this erstwhile effort in terms of do—do you have  
16 resources or does your department have resources to  
17 dig into of the challenges and technicalities in  
18 dealing with 40 different benefit services. We  
19 currently have a screening, but to really make sure  
20 that we can open source and—and change the way that  
21 we deliver services so that we give them to people  
22 using the information we already have instead of  
23 making them fill out information—information over and  
24 over again. That goes to data sharing. With regards  
25 to Professor Lane there's a really awesome book that

2 the city puts out called the Mayor's Management  
3 Report. It's only 600 pages. [laughter]

4 PROFESSOR JULIA STOYANOVICH: I've read  
5 every word.

6 COUNCIL MEMBER KALLOS: Say that on the  
7 record, please quick.

8 PROFESSOR JULIA STOYANOVICH: I've read  
9 every word.

10 COUNCIL MEMBER KALLOS: But in terms of  
11 that you mentioned specific-

12 SPEAKER JOHNSON: [interposing] I'm  
13 scared. [laughter]

14 COUNCIL MEMBER KALLOS: You should be but  
15 if-would-would you and your institution and as either  
16 by either academics or with students, be willing to  
17 engage in the indicators whether or not they are the  
18 correct indicator-indicators and just to Stefaan, you  
19 had a lot of recommendations. I subscribe to your  
20 weekly email, which gives everyone a-a state to the-  
21 of where open government is moving and the  
22 intersection of governance and technology. A couple  
23 of panelists--and I agree with them--spoke to the  
24 digital divide. It's 1 in 3- 1 in 4 households in  
25 Brooklyn, 1 in 3 households in the Bronx have. How



2 can we use this to improve governance when a lot of  
3 people don't even have access to the technology?

4 PROFESSOR JULIA STOYANOVICH: My question  
5 was first so I will go first and the answer is yes.  
6 We absolutely would love to engage with the city on  
7 these very difficult challenges. A part of the  
8 challenge is, of course, technical right and these  
9 are social technical questions and legal questions,  
10 but the technology is not yet in place for us to be  
11 able to link data to deliver coordinated  
12 recommendations, and to do it responsibly most of  
13 what you say.

14 COUNCIL MEMBER KALLOS: The technology is  
15 built. Intuit built it for us and gave it to us for  
16 free.

17 PROFESSOR JULIA STOYANOVICH: Wonderful.  
18 So, that means that we need to really see what it's  
19 doing, right, and the questions it's asking and—So,  
20 yeah, we're—we're more than happy to engage with you.  
21 My students are thrilled to be looking at real  
22 projects that make a difference in the city, and  
23 really we are just—I'm thrilled to be in the city  
24 because we are a leader in every respect and we are  
25 affirming our role as a leader in responsible data

2 driven governance and the thing that we need all  
3 hands on deck for that. So, we're in.

4 PROFESSOR JULIA LANE: So, of course,  
5 happy to be involved. I'm going to push pretty hard  
6 on the notion of people within the government  
7 agencies being part of the conversation. That's  
8 absolutely critical. Can say no to data and—and how  
9 to pull it together. So, we can have an offline  
10 conversation about that.

11 STEFAAN VERHULST: Thanks. Thanks for  
12 the question and—and I do agree that equity should be  
13 part of the, and a core priority of any data effort  
14 that the city undertakes, and there are many ways, of  
15 course, that digital divide has already been  
16 considered, but I think data also provides this for a  
17 real better insight in what is the (a) situation, (b)  
18 the cause and effect behind the current divide, and  
19 there was an interesting story even today in regard  
20 to the Broadband Agenda, the National Broad Brand  
21 Agenda where they came to the realization that they  
22 actually measure the wrong data to—to get a better  
23 insight in actually the reals broadband gap, which  
24 shows the importance of actually understanding the  
25 data, and also having access to private data to

2 really understand who is using it for what purpose  
3 and what are the implications.

4 SPEAKER JOHNSON: Thank you all very  
5 much. I'm sure—I would imagine that Council Member  
6 Kallos has a few more questions, but I want to get to  
7 some other folks and then we can come back. Next up  
8 is Council Lander followed by Commissioner Barber,  
9 Commissioner Banks and then Commissioner O'Toole—  
10 Commissioner Toole, not O'Toole. [background comments

11 SPEAKER JOHNSON: They have questions for  
12 you. Council Member Lander.

13 COUNCIL MEMBER LANDER: Thank you very  
14 much, Mr. Speaker, Mr. Acting Public Advocate and Mr.  
15 COPIC Acting Chair. I'm glad we're going this  
16 hearing together. It's great to be with the folks  
17 COPIC. Thanks to you for being here and I guess  
18 Professor Verhulst, you're my constituent and, you  
19 know non-citizens can vote in participatory  
20 budgeting. So, I hope you're—you're out voting in  
21 our elections. So, I just want to give a kind of  
22 real time example and ask for some of your thoughts  
23 on it. The Speaker and I were actually just  
24 downstairs at a press conference for a bill we called  
25 the Reckless Driver Accountability Act. About a year

2 ago in my district a driver killed two young  
3 children, and what quickly happened, it was quite  
4 remarkable. It happened on Twitter that—I mean we  
5 were all heartbroken and thought of this as some sort  
6 of just awful, you know, accident. What quickly  
7 transpired on Twitter is that data researcher kind of  
8 in his spare time name Brian Howard tapped into the  
9 city's databases for the red light and speed camera  
10 violations, and found that the driver or, you know,  
11 he had the license plate of the car--because in this  
12 case that's what we have is from the red light and  
13 speed camera—that she and the preceding year had had  
14 five tickets from these red light and speed cameras.  
15 So, in fact, there was some potentially predictive  
16 data on her reckless driving that we might have done  
17 something with. Actually, she had also been hit and  
18 run in Queens. That actually was a paper report  
19 sitting in a file drawer in a Queens Police Precinct.  
20 You know, that data doesn't happen to be online at  
21 all. It turns out that her doctor had told her not  
22 to drive, something which was not available—private  
23 data that was not available, but became, you know,  
24 available subsequently. We never saw insurance  
25 records, of course. Brian then asked for a

2 conversation on Twitter: How many other drivers? How  
3 many other cars are there out there that have that  
4 bad a record? It turned out the answer is about  
5 25,000 cars, about 1% of the cars in the city, and so  
6 now that helped us put in legislation to try to do  
7 something about that, to target this set of reckless  
8 drivers for a kind of restorative justice program  
9 before they do harm. But we've also realized, you  
10 know, what we have are these light and speed cameras.  
11 They take pictures of license plates and not of  
12 driver. There might be a whole bunch of other  
13 information out there. Insurance companies surely  
14 have information that would help us know who were the  
15 folks most likely to cause harm, and subsequently  
16 someone set up a-a Twitter account called How's My  
17 Driving, a kind of doxing account that someone can  
18 when you see a car out there doing bad, you could  
19 take their license plate and query, and you get the  
20 whole record of their violation. So, this has become  
21 sort an object lesson for using data, and-and the  
22 public's ability to access it to think about how to-t  
23 develop public policy, but it's raised a lot of  
24 questions because we didn't start from a question.  
25 We started from a horrible tragedy. We didn't think

2 at the front what information we would like to have.

3 We grabbed the data that we do have. We didn't think

4 that much about what the ethics of, you know, this

5 type of—I meant that data was already public. So, we

6 just started using it, and I just wonder and—and I'm

7 not sure. You know, I think we have good predictive

8 data here that we should use in policy making and not

9 wait until we, you know, let the perfect be the enemy

10 of the good, but I just—I wonder what thoughts you

11 have on kind of a project like that, how we ought to

12 have set it up. How we should engage with the

13 private sector, you know, so that we could get

14 something from kind of data policy and ethical

15 grounds that helps us confront a problem. We weren't

16 really confronting at all. We've done a lot of

17 intersection and redesign to try to make our streets

18 safer. We haven't yet done anything to confront the

19 challenge of—of reckless drivers, and we know—we-we

20 know these are reckless drivers. We don't know if

21 they've yet caused harm. So, I'd just—I'd love to

22 get your take since we're kind of using that right

23 now as, you know, how you would have set that up as a

24 project, what you think we should be paying attention

25 as we move forward. [background comments]

2                   STEFAAN VERHULST: Yes. Well, I think  
3 it's a very interesting case study. Thanks for  
4 sharing and I think as it would—I think it would be  
5 very useful to—to use it as a case study on how data  
6 could be on the one hand potentially beneficial to  
7 prevent accidents of happening, but also those will  
8 raise a huge amount of ethical questions because the  
9 moment you enter personal profiling, then you  
10 automatically enter, of course, a domain that might  
11 generate harm in addition to positive benefits. So,  
12 one way to think about it is to (a) be transparent  
13 about what the current state of the project is. Also  
14 be transparent in regard to future intentions, and  
15 then engage with, which was already mentioned,  
16 citizens around what is the views with regard to what  
17 is appropriate. It doesn't mean it's legal, but it's  
18 appropriate, and-and I think we do have to start  
19 understanding this kind of thin line between what  
20 would be beneficial. Now, clearly there is a  
21 potential to work with the private sector. Whether  
22 that means that it leads to personal profiling that  
23 would be a red flag to me, but it could also mean we  
24 actually have aggregated data sets that provide for a  
25 better understanding on what for instance

2 intersections are more likely to generate certain  
3 kinds of reckless behavior. When this reckless  
4 behavior happened, is it after the Super Bowl and—and  
5 if so, should you have a—a public campaign to  
6 actually limit that kind of behavior.

7 COUNCIL MEMBER LANDER: And I want to  
8 push you a little here because we've actually done a  
9 lot to figure out what intersections are unsafe, and  
10 we have not yet done anything to figure out which  
11 drivers are—are unsafe, and the data, you know, it  
12 turns out that 80% of people if they get one of these  
13 tickets never get a second, but a small percentage of  
14 people get so many that they're driving like  
15 sociopaths, and we better have a public policy  
16 intervention. So, I agree with you. Look, I'm a big  
17 advocate of data privacy, but this is just a really  
18 interesting example for of like on the one hand, yes  
19 to data privacy, and on the other hand, if you blow  
20 all of our, you know, like that's public data because  
21 we had to give you a ticket and send it to you. So,  
22 so I think you're right that we need to involve the  
23 public in setting the ground rules, and I don't know  
24 that we yet have a good way of doing that, but I  
25 also, you know, it's an interest challenge to balance



2 appropriate data privacy with the public's interest  
3 in, you know, saving lives in this case.

4 STEFAAN VERHULST: Yeah. Thank you.

5 PROFESSOR JULIA LANE: So, this may come  
6 as a shock to you, but I'm not originally from New  
7 York. [laughter] I'm acquiring the accent, but it's  
8 been slow I have to say. I'm originally from New  
9 Zealand, and in the New Zealand we built and  
10 integrated data infrastructure, which actually  
11 combined a lot data from—from different government  
12 agencies. So, a similar problem. When you take a  
13 look at crimes that are committed, you--there are a  
14 lot of events that you can see in a child's history.  
15 So, you can pretty much predict by the time the kid  
16 is 18 a type of what he's--of committing a crime, too.  
17 So, now it goes to your--to your driving example. So,  
18 obviously, prediction is not destiny, and that's  
19 where the ethical issue comes up. So, there--there  
20 are several points of discussion that we have baffled  
21 with or--or the policymakers in New Zealand have  
22 grappled, with which policymakers in New Zealand have  
23 grappled. One is a simple resource allocation  
24 decision. So, the kids who are at a high risk of  
25 offense and, you know, they make--New Zealand is a

2 small country. You must vote for New York. So, you  
3 know, there might be 600 or 1,000 kids and you—you  
4 just made roughly the same. So what you can do is  
5 instead of allocating resources to peanut butter  
6 across all activities, you can allocate resources  
7 one-on-one in-in-in a—in a very big case to intervene  
8 with those that have high predictive likelihood of-of  
9 having harm, and change of trajectories of that  
10 child's life. Right, and that was a little bit the  
11 example of the Baltimore that I—I cited. So, if you  
12 think of it in terms of given safer conditions, what  
13 kind of interventions might make sense prior to an  
14 activity in order that an accident doesn't happen. I  
15 think that's the way to couch it rather than a gotcha  
16 afterwards, right. So, in its thinking strategically  
17 about what those decisions and how you're going to  
18 deal with them, and—and allocating the resources  
19 where they can be most effective without it  
20 necessarily being punitive prior. And that's a  
21 policy—that's a key policy discussion that can be  
22 informed by data.

23 COUNCIL MEMBER LANDER: Thank you very  
24 much. I appreciate your time, and your testimony,  
25 and I've enjoyed my first COPIC meeting.

2 SPEAKER JOHNSON: It won't be your last.  
3 [laughter]

4 COUNCIL MEMBER LANDER: I'm not ready to  
5 go with you guys. (sic)

6 SPEAKER JOHNSON: [interposing] We're  
7 going to go to Ms. Barber.

8 DAWN BARBER: [off mic] Thank you. [on  
9 mic] Thank you so much. Professor—Professor  
10 Stoyanovich and Professor Lane, I—my understanding is  
11 that—is that one of you is suggesting we need new  
12 infrastructure, and one of you is suggesting that we  
13 use existing infrastructure. I was wondering if—if  
14 either or both of you, you know, have some—maybe can  
15 provide some more detail about how much money this  
16 might cost. My understanding is that we don't  
17 actually have a budget but, of course, I'll let Mr.  
18 Kallos deal with that, and Mr. Johnson but, you know,  
19 if you could provide a little bit of detail in that  
20 regard.

21 PROFESSOR JULIA STOYANOVICH: So, I think  
22 that we need new infrastructure, but building blocks  
23 of that infrastructure can be based on insights from  
24 other domains where we know how to enact policy that  
25 will agree. So, for example, we know how to build

2 the--the clean rooms and how to operate them and how  
3 to educate the--

4 DAWN BARBER: [interposing] Pardon me.  
5 Say it again.

6 PROFESSOR JULIA STOYANOVICH: We know for  
7 example how to build data clean room, secure data  
8 environment--

9 DAWN BARBER: Yes.

10 PROFESSOR JULIA STOYANOVICH: --and in  
11 particular Julia knows about how to do that, but I  
12 don't think that there exists currently an  
13 infrastructure that actually is able to flexible--

14 DAWN BARBER: [interposing] Yes.

15 PROFESSOR JULIA STOYANOVICH: --and to  
16 serve multiple stakeholders, to serve both for  
17 oversight and for linking within the city across  
18 agent--agencies, and for public accountability, and  
19 for open--

20 DAWN BARBER: [interposing] This is  
21 extensive. It is my understanding that--

22 PROFESSOR JULIA STOYANOVICH:  
23 [interposing] So, so absolutely it's going to cost  
24 money and as a matter of fact, it's more expensive to  
25 do things responsibly in any domain including data

2 science thank it is to just do them somehow, and it's  
3 more expensive to be transparent than to just drive  
4 profit, right, but this something that I think we  
5 need to expect.

6 DAWN BARBER: Yes, yes.

7 PROFESSOR JULIA LANE: So I can give you  
8 a full parking slot because I—because we've been  
9 doing this funded by the federal government. So, the  
10 cost of setting up the secure Cloud-based environment  
11 within which we have linked data across agency and  
12 state lines, it was about \$4 million, and it costs  
13 about a million a year to keep that secure.

14 DAWN BARBER: A useful Process.

15 PROFESSOR JULIA LANE: Having said that,  
16 that's being paid for. The marginal cost of an  
17 agency or a group of agencies supporting metadata,  
18 that's built city walls. The marginal cost of an  
19 agency or set of agencies putting a house inside  
20 those walls is about \$150,000 a year, and to give you  
21 a ballpark sense.

22 DAWN BARBER: Good to know. Thank you.

23 PROFESSOR JULIA STOYANOVICH: Okay, but  
24 that is just for the—the secure data environment,  
25 right. To—do things that—that will require algorithm

2 transparency, for example, where we can, you know,  
3 look at sensitive data and release a medium summary  
4 that is spatial still to the dataset yet is privacy  
5 preserving and where the public can have access,  
6 that's another set of methods yet.

7 PROFESSOR JULIA LANE: And the since  
8 Spyro, which is where I have my closest affiliation  
9 has poured tens of millions of dollars a year, and  
10 interests has pulled tens of millions of dollars a  
11 year.

12 DAWN BARBER: Sure, year.

13 PROFESSOR JULIA LANE: But those  
14 investments can be built on. [cellphone chime]

15 DAWN BARBER: Yep.

16 SPEAKER JOHNSON: Do you have anything?  
17 Is that--? Okay.

18 DAWN BARBER: Thank you.

19 SPEAKER JOHNSON: Great. Thank you very  
20 much.

21 PROFESSOR JULIA STOYANOVICH: So, I can  
22 give you

23 DAWN BARBER: It's good for us to have  
24 it.

25 SPEAKER JOHNSON: Mr. Banks.

2           CLAYTON BANKS: Thank you, and thank you  
3 for your remarks. Just a quick question. Well,  
4 first, let me just say in my opinion data does not  
5 drive. Data is a compass. We are still human beings  
6 and we still make decisions. So, this notion of data  
7 and—and I learned this from Professor Norton of the  
8 University of Virginia and he's an historian and an  
9 engineer. So, anyway, my question is given the  
10 research that you've done on privacy, on algorithms,  
11 the bias that can come with that, my question is do  
12 you—and all three of you can answer this easy  
13 question, which is should there be an oversight  
14 commission or committee in New York City to over—  
15 basically monitor how data is being collected, used  
16 and distributed, and how easy it is for an average  
17 citizen to access, understand it, use it, understand  
18 who owns it? I'm curious if—if you believe in  
19 oversight in any sort of form of fashion?

20           PROFESSOR JULIA STOYANOVICH: Of that,  
21 yes, absolutely. I think that we need mechanisms for  
22 oversight, and I agree with you that data is not the  
23 end goal, right. Data is a reflection of the world  
24 in which we live, and which we're able to measure  
25 imperfectly to some extent, and data reflects the

2 kinds of inequities that are evident in our world.  
3 Data we use to be able to-to drive policy that is  
4 meaningful, right. So, really the public's  
5 understanding of what the data is for, which kinds of  
6 questions that will be used to answer like the  
7 Stefaan said. What the costs are in terms of  
8 privacy, in terms of potential harms in the future as  
9 in this example of the reckless driving. These are  
10 all the things that are of essential importance.  
11 Data is just the fuel somehow. It's the raw  
12 materials here. But yes, we do need oversight and we  
13 need regulation, and the ADS transparency bill is the  
14 first step, but it's only just the first step.

15 STEFAAN VERHULST: Yeah, and I would add  
16 to, and I like- First of all, I-I--I appreciate you  
17 indicating this is a life cycle, a data life cycle  
18 challenge, right. So there are--there are concerns  
19 and there are possible risks at every part of the  
20 data life cycle including at the collection state,  
21 the design of highly collected data to ultimately  
22 storage and then sharing to ultimately analyzing  
23 where then goes the algorithmic kind of bias might  
24 come in to ultimately then using it, and because  
25 there are risks in also using data wrongly to a large



2 extent. And so having a data life cycle approach  
3 would be my first recommendation that you don't focus  
4 on one element because ultimately the risk is across  
5 the life cycle. Too, oversight is always so very  
6 important with regard to acquiring and—and  
7 instigating certain behavior, but ultimately coming  
8 back to my last point of my testimony, this is a  
9 cultural issue. And so, you want to instigate a  
10 culture, a data culture that is responsible across  
11 agencies and across city government because if you  
12 only rely on oversight, you might actually miss the  
13 opportunity to really have certain kind of data  
14 responsibility culture from day one, and that would  
15 be an additional kind of focus that I would  
16 recommend.

17 PROFESSOR JULIA LANE: So, you can  
18 gather, we're for once all free of this and  
19 completely on the same page, but—but the fundamental  
20 notion, which I think you highlighted is that at the  
21 core any use of data, there's a tradeoff between the  
22 risk and the utility. You know, any time—any time  
23 you work with data there is a risk of it being  
24 misused. There is a risk of re-identification.  
25 There is great utility associated with data, and I

2 don't think it's appropriate to that that be done in  
3 a dark room by a single individual or group of  
4 individuals. So, I-the-the-it's difficult to  
5 quantify risk and utility, and so my colleagues like  
6 Helen Nissenbaum will say it's-it's-it's a very deep  
7 philosophical issue, but more voices in the room and  
8 more people who understand how the data are generated  
9 and to what purpose they can reasonably be used,  
10 which is the community and the agencies, and the  
11 Community Representative Chris Crisco.

12 STEFAAN VERHULST: If I may, I want to  
13 add one more-

14 SPEAKER JOHNSON: [interposing] Sure.

15 STEFAAN VERHULST: --element here is that  
16 just following up on Professor Lane's comment here is  
17 that it is indeed about cost benefit analysis, and  
18 we've become to a large extent sophisticating-  
19 sophisticated in measuring the risk, but we lag quite  
20 often in sophistication in measuring the value. And  
21 to a large extent we need to not only pose whether  
22 the risk of sharing data, we also need to pose the  
23 question was the risk of not sharing the data? And  
24 quite often we don't have a good answer to that as  
25 opposed to the first one. So, we need to do both,

2 and the Commission that, or any oversight mechanism  
3 should not only be about the risk of using, it should  
4 also be about the risk of not using, and that will  
5 provide for a more sophisticated assessment.

6 PROFESSOR JULIA LANE: In the form of  
7 dead children.

8 SPEAKER JOHNSON: Thank—thank you all.  
9 We're going to have one final question for this  
10 panel, and then our great Manhattan Borough President  
11 is here. So, we're going to go to Commissioner Saini  
12 for the final question for this panel.

13 SAMIR SAINI: Great. It's actually two  
14 questions. Then I'll be—I'll be quick. So, first  
15 off I—I just want to thank you for your testimony. I  
16 have a deep respect for—for the work you do, and as  
17 well just hear in your testimony appreciation for  
18 and—and for what your seeking, what—where you believe  
19 we need to be, right as a city to improve how we  
20 share, right and utilize data. So, that's the first  
21 point. A couple questions. So, first is in terms of  
22 NYU, right and yourselves and your students utilizing  
23 this modern data platform, how do you see that  
24 working? You know, when I—when I look at your  
25 recommendations a lot of this is around the need for

2 a modern, right, you know, data platform to improve,  
3 right, the ability for agencies to share data amongst  
4 each other ensuring privacy and security, integrity,  
5 et cetera. But what do you get out of it or what do  
6 you want to get out of as joint research project is  
7 there some, and if so, is there IP that you would be  
8 developing? If so, would you own that IP or would  
9 the city own that IP? I ask all these questions  
10 because I made partnerships with—with universities  
11 before like Georgia Tech, and these questions come  
12 up, and usually they're not easy answers. So, Beyond  
13 the big picture yeah we got to do this, what does NYU  
14 get out of this? What are you trying to get out of  
15 this as a university and as professors in this space?

16 PROFESSOR JULIA LANE: It's a great  
17 question. So, I'm a—I'm a bit of a sap. I've made a  
18 career out of building public data infrastructures  
19 and giving them away.

20 SAMIR SAINI: Okay.

21 PROFESSOR JULIA LANE: So, yeah, I know.  
22 It's rally sick. [laughs] So, it's really stupid,  
23 but that's—that's—that's what I've done. So, most of  
24 the work has been funded by philanthropic  
25 foundations. Thank you to Futures, The Gates

2 Foundation, Overdeck Foundation, which is based here  
3 in new York through Sigma, the Alfred P. Sloan  
4 Foundation, and then federal agencies. So, we have  
5 made it very explicit there is no IP. NYU is—so  
6 again, I'm going to sound like a Pollyanna here. NYU  
7 is a great place. They have done nothing but support  
8 our ability to—we are—we are--in some ways what we  
9 are trying to do is transform the public data sector  
10 in the same way that the private data sector has.  
11 So, it's a—it's a social mission, and yes. So,  
12 that's what we're trying to.

13 SAMIR SAINI: So, that—that's—that's  
14 great, that's great to hear.

15 PROFESSOR JULIA LANE: And I just loved  
16 seeing that when I came in this Of the People, by the  
17 People, For the People because I think that's really  
18 what we're talking about here.

19 SAMIR SAINI: Agree. Please.

20 PROFESSOR JULIA STOYANOVICH: So, just to  
21 follow up on that, these kinds of questions is really  
22 what gets me out of bed in the morning. I mean I'm  
23 really very interested in understanding the research  
24 questions that—that are in this responsible data  
25 science space, and there's no better place to look

2 for these questions and to develop solutions than a  
3 city, and this is the greatest city that there is.

4 PROFESSOR JULIA LANE: It is.

5 PROFESSOR JULIA STOYANOVICH: So, so to  
6 me and I say this sincerely. I've been a resident of  
7 New York City for 20 years, and I don't want to  
8 leave. So, our research can be based on this. This  
9 is what we get out of this. Our education efforts.  
10 We are educating data scientists of the future. I am  
11 assigning projects to my students, and my responsible  
12 data classes that they are inspired by the kinds of  
13 problems that we encounter here by fairness, by  
14 privacy, by the privacy and fairness and utility  
15 trade-offs, transparency. These are fascinating  
16 questions for us as a science. So, yeah, you know,  
17 what's not to like?

18 SAMIR SAINI: Okay. Then just one last  
19 point and final question. So, the—today the city has  
20 data sharing infrastructure because there is data  
21 sharing happening today. It's largely managed  
22 through my agency DOITT. It's—it's a Legacy data  
23 sharing—data sharing technologies, but we're  
24 obviously working heavily to—with new initiatives to  
25 modernize the entire platform, and basically

2 accomplish all the things that you had described and—  
3 and more. A lot of this is laid out in a 10 point  
4 plan for my agency that's online and—and more  
5 information around that is going to be published.  
6 So, I just wanted to make that aware to the—to the—to  
7 the panel, and—and to the public. The question is or  
8 the request I'll say is that we're seeking—back to  
9 the point around people and the need. This isn't  
10 just about technology, right? It's about having the  
11 right people within city government that can support  
12 the plumbing of these—I'm simplifying this—but the  
13 plumbing required right to support this highly  
14 complex data—data infrastructure, data platform, data  
15 sharing infrastructure, and the analytics, right, as  
16 well to produce insights that can improve quality of  
17 life. The request is can we seek to partner with NYU  
18 and not just NYU, but quite frankly several other  
19 universities, to do joint research projects to bring  
20 in interns in the data science space both on the  
21 heavy technology side, which is mine, and then I  
22 would imagine the same with—with Jeff and MODA and  
23 Kelly who is fantastic, right, the Chief Analytics  
24 Officer.

25 MALE SPEAKER: I'll take them, too.

2           SAMIR SAINI: And there is another  
3 request. So, you know, this—this is a team sport  
4 here, right, and the intellectual property knowledge  
5 right within—within NYU and other universities is  
6 something I think we can benefit from if we structure  
7 formal—formal projects, formal relationships and—and  
8 I'd love to help to advance that.

9           PROFESSOR JULIA LANE: So, two quick  
10 things. One is yes I'm very aware and obviously MODA  
11 and the work that it has done is terrific. The—there  
12 are limited to having just city data sharing because  
13 people are mobile. So, if for example, I want to  
14 look to the return to investment in education, I  
15 can't do it with all due respect with New York City  
16 data. I need to be able to look at New Jersey data  
17 and Connecticut data in turn because—so you've got to  
18 have a platform that will go across state lines, and  
19 that was one of the reasons why we built the ADRS,  
20 and the ability for example for Illinois to be able  
21 to look at Indiana and Missouri data and see what's  
22 happening, the flows of—of welfare recipients across  
23 state lines is critical. And so, you need to be able  
24 to look much more broadly than a city agency. The  
25 second thing is with—clearly there are lots of



2 partnerships that can be done with interns and so on,  
3 but I am actually going to challenge the committee,  
4 and so I'm an economist by training and, you know,  
5 you look at the proliferation of executive education  
6 programs in business schools across the country, and  
7 there are masses of them. You look at the  
8 proliferation of executive education and training  
9 programs for government officials, certificate  
10 classes and there are almost none working with  
11 confidential microdata, which is what we're talking  
12 about. So, why is that? it's because the private  
13 sector is willing to invest in data science skills in  
14 their workforce. They're willing to pay. Starting  
15 salaries are a lot higher, and then they're willing  
16 to pay for the ongoing education. The government  
17 workforce needs--their data science skills need to be  
18 improved and any number of interns and partnerships  
19 it's not going to happen if city agencies don't pay  
20 for it because no university or community college is  
21 going to put up a high quality training program if  
22 it's not paid for. You can get by on foundation  
23 funding for a little while, but essentially then what  
24 happens it's the see with the opium pharma problem.  
25 You get the free aid and you don't build the--the

2 potential for a strong and robust relationships with  
3 the universities.

4 SAMIR SAINI: Okay, thank you.

5 STEFAAN VERHULST: Just—just to  
6 emphasize, we would be delighted—so you Gov Lab is an  
7 action research Center. So, we work with partners  
8 and already have a great experience with working with  
9 some of the partners that are present here at the  
10 committee. So, we would be delighted to examine  
11 what—what are the possibilities and also to what  
12 extent can we add value if at all?

13 SPEAKER JOHNSON: Thank—thank you.

14 PROFESSOR JULIA STOYANOVICH: And we  
15 already are in the same building as DOITT and too  
16 Metro Tech.

17 SAMIR SAINI: I met Helena last week  
18 actually and your Nadine and we had some—some great  
19 conversation over what we just described. I just  
20 want to make sure you were in the—you were also  
21 aware, right of what we had discussed. So I'm looking  
22 forward to—to—to that partnership and coming soon.

23 SPEAKER JOHNSON: Thank you,  
24 Commissioner. Thank you Professors for this very  
25 helpful testimony and answering our questions today.

2 Next up is our wonderful Manhattan Borough President  
3 Gale Brewer who, of course, a former member of this  
4 body and the former Chair of the Technology Committee  
5 of the City Council. [pause] Hi, Gale

6 GALE BREWER: Hello, Corey. Thank you  
7 very much, Mr. Speaker. I am Gale Brewer and. I am  
8 the Borough President and I want to thank you,  
9 Speaker Johnson and Chairman Koo and all the members  
10 of the committee. I was a member not only of the  
11 Technology Committee, but also I was the Council rep  
12 as Ben Kallos is to COPIC representing the City  
13 Council when I was on the City Council and I think it  
14 helped us figure out what open data is and should be.  
15 The desire to improve government transparency that  
16 led to the creation of COPIC in 1989 remains an  
17 important motivating force today, as you know. New  
18 York City we know has made great strides and can  
19 boast the most robust open data offerings of any  
20 municipality in the United States although I know you  
21 need to have apples to apples comparison, and not  
22 apples to oranges. It's all been strong leadership.  
23 The one aspect I will counter to the amazing  
24 economist professor is that we do have a civic hacker  
25 community in New York, which I think is phenomenal.

2 Again, is it as great as other cities? I always  
3 think we're better than other cities, but I do think  
4 this particular community, although maybe not paid  
5 for by government, and that was a good notion that we  
6 need the science to be paid for our city employees,  
7 but the civic hacker community here is excellent.  
8 The Commission, however, is in dire need of  
9 restructuring, as you know, to be relevant and to  
10 fulfill its purposes. That's why it's great to be  
11 here today. Section 1061 of the Charter outlines the  
12 duties of COPIC as you know, and these duties in some  
13 cases have been left by the wayside. Others have  
14 picked them up. COPIC's annual public hearing on  
15 city information policies has been replaced in some  
16 cases by the great work of this committee. The  
17 Annual Report the Commission is supposed to publish  
18 is instead put together by DOITT, to their credit and  
19 to MODA. I do want to point out that I have every  
20 God damn piece of paper known to mankind in my house  
21 [laughter] and here is the first edition of the  
22 Public Data Directory, April 1993 just so you know.

23 SPEAKER JOHNSON: That's scary, kid.

24

25

2 GALE BREWER: I'm actually the only one  
3 that has that, but I have it, and then I have another  
4 version that Betsy Gotbaum--

5 SPEAKER JOHNSON: [interposing]  
6 Commissioner Toole has that.

7 GALE BREWER: --in September 2008 and if  
8 you wan, I can get you the more versions of them all,  
9 but here they all are. Actually--I'm sorry. Betsy  
10 Gotbaum, is 2002, June 13<sup>th</sup>. That's her version. She  
11 complained there wasn't enough money to do what she  
12 needed to do. We know in addition to all of this  
13 that since COPIC hasn't met to the best of my  
14 knowledge--I know that Ben Kallos has been at  
15 meetings, but the Commission no longer has a website  
16 or a clear point of contact for information. It's  
17 kind of ironic because its mandate is to be  
18 transparent. You know, some of the reductions in the  
19 scope of COPIC resulted from a duplication of efforts  
20 among other agencies, but there's a clear value  
21 looking at the amazing array of individuals here  
22 today to make a difference on technology. It's clear  
23 value in having an organization composed of  
24 stakeholders from different backgrounds dedicated to  
25 preserving something that we all care tremendously

2 about: Government transparency. COPIC could be  
3 restructured and resourced to develop strategies to  
4 safeguard open data platforms and the philosophy of  
5 open access. The restrictions of public information  
6 and its distortion and misuse for political purposes  
7 at the federal level should alert us of the dangers  
8 that could occur locally if we're not careful. The  
9 current degree of open data and access to government  
10 information was inconceivable in '89, but in the  
11 future we can reimagine the structure and the role of  
12 COPIC. It should be funded for a functioning website  
13 to ensure the public remains informed on data issues  
14 and try to get some of the back material. It should  
15 have a full-time staff that can inform and at the  
16 vision of the members, and I want to thank the  
17 Speaker as the acting Public Advocate for bringing us  
18 together to do exactly that, and hopefully COPIC will  
19 meet quarterly if not more often. When Mayor de  
20 Blasio was the Public Advocate, COPIC met rarely. I  
21 was the one who bugged the dickens out of him to get  
22 to meet—meet at all. As Public Advocate, de Blasio  
23 felt that any meaningful activity and the agenda  
24 items that COPIC initiated would not be able to be  
25 successful if staff was not in place and it needed

2 funding, and that continues to be an issue. I think  
3 that continued even under Tish James who did a great  
4 job, but there wasn't a lot of discussion about  
5 COPIC. Government transparency is vital. You know  
6 that. It makes government more accountable and  
7 empowers citizens, small businesses and more  
8 importantly it improves city services. There is much  
9 progress to be made on this front. I will do all I  
10 can to ensure that the vision of earlier COPIC  
11 discussions continue to inspire and inform such  
12 initiatives and that New York City remains a national  
13 leader in municipal data innovation. COPIC is part  
14 of that vision, and it must be reinvented to ensure  
15 the continued success of New York City's Open Data  
16 offerings, and I just want to remember that this took  
17 place April 1993. Thank you very much.

18 SPEAKER JOHNSON: Gale, you're the best.

19 I have a question for you, which is and I-I think you  
20 answered it but I would love to-to hear you expound  
21 on it a little bit more, which is there have been  
22 some who have said both before we called this hearing  
23 today but during the last many years that COPIC was  
24 really-should be considered irrelevant now because of  
25 the Open Data Portal because of the how certain city

2 agencies and of the work that DOITT does and some of  
3 the work other agencies do, and the Mayor's Office of  
4 Operations. People are already doing this type of  
5 work so this—so COPIC is duplicative in some ways,  
6 and that it's unnecessary. I don't share that  
7 viewpoint, but given your history with COPIC, I would  
8 love to hear your viewpoint a little bit more on  
9 that.

10 GALE BREWER: I appreciate that. The  
11 reason I think it's still relevant is an example to  
12 date because what the difference is with the open  
13 data as much, and I respect the work that DOITT is  
14 doing and MODA is doing, but there are still agencies  
15 that have Legacy issues and they're still—because we  
16 have don't forget 12 CUNY students working with  
17 BetaNYC. I'm sure you heard from Noel earlier. They  
18 are finding the challenges of working with the open  
19 data to be able to communicate to the community  
20 boards and the community at large. This is a huge  
21 city, and in order to get the data to be real time  
22 and to be acceptable and to be transparent with all  
23 due respect to the work that Council Member Koo was  
24 doing and the staff and the City Council, you need  
25 them sitting around at a table as opposed to the



2 hearings file to be able to find ways to bring in the  
3 outside public to change the way in which the open  
4 data is collected, and then we heard earlier the  
5 challenge of government participating in the very  
6 changing science that take—that's changing so  
7 rapidly. You need those kind of expertise on at  
8 COPIC to be able to keep up with the work that is  
9 going on outside of city government. Having  
10 participated in this since 1989, and having seen the  
11 way in which groups can come together. Beth Nowick  
12 (sic) who was the CPO for Bill Clinton she's the one  
13 that helped me with open data. She's now at NYU.  
14 Bringing in her expertise and the people from  
15 academics to continue to push the city to do the  
16 kinds of work they heard about today, I think COPIC  
17 is absolutely necessary and in 10 years it will be a  
18 completely different discussion than what we're  
19 having today. So, I—I think it's necessary, and I  
20 also just wanted to thank Clayton Banks. He's not  
21 just my—he represents all five borough presidents. I  
22 just want to make that clear. Thank you.

23 SPEAKER JOHNSON: We're—we're really  
24 grateful to have him here today participating in  
25 this, and I want to go to Mr. Banks who has a

2 question or a comment followed by Council Member  
3 Kallos followed by Ms. Barber.

4 CLAYTON BANKS: Madam President.

5 GALE BREWER: Yes, Mr. Banks.

6 CLAYTON BANKS: You mentioned that the  
7 Commission should—I'm going to use your exact words  
8 "Be restructured or in dire need of restructuring.  
9 Can you give us some ideas of—of what you have on  
10 what that structure would look like?

11 GALE BREWER: Sure. I mean I think again  
12 it would have had to come through the Charter  
13 Revision Commissions, which is taking place as we  
14 speak. I do think that the way in which it has  
15 faltered there were—there's no money attached to it.  
16 There's no staff attached to it. It's sort at the  
17 behest of people who were doing other things in the  
18 Public Advocate's Office. So, one way would be to  
19 mandated the funding. That's one restriction and  
20 then second this, you know, times are changing in  
21 terms of the—what is going on in terms of the  
22 science. So, in some cases on different boards we  
23 mandate. I'm making this up. In the Landmark  
24 Preservation Commission you need an architect, you  
25 need a preservationist, et cetera. So, I would think

2 on this particular COPIC you would try to think there  
3 are certain disciplines that you would like to see on  
4 this commission. Again, that would be up to those  
5 who are more familiar with what's changing in the  
6 world. Just to give you an example. I think that we  
7 need that kind of expertise.

8 CLAYTON BANKS: One follow-up question,  
9 we are about to embark on the 2020 census and I'm  
10 curious your thoughts about a role COPIC would have  
11 in that sort of public communication.

12 GALE BREWER: Yep.

13 CLAYTON BANKS: We—we are finding that  
14 many people are under-represented when it comes to  
15 census in general, but a digital census that we're  
16 about to embark on where there are several people  
17 that are not digitally literate or don't even have  
18 devices. Would that be a role COPIC could play?

19 GALE BREWER: Well, certainly there's so  
20 many different ways. Obviously, this will be the  
21 first census that is to be done on April 1<sup>st</sup> 2020  
22 online. You can also call in, you can write in. You  
23 get a knock at your door. There are four ways that  
24 you're going to be filling out that census and, of  
25 course, there's all the challenges of the citizenship

2 question? There are—but it's not just filling out  
3 and who's digitally sophisticated. It's where are  
4 the—you—you knock on somebody's door and if there's  
5 no connectivity even on your phone because there's no  
6 connectivity in that area, then that's an issue. So,  
7 just looking at dead spots, looking at kinds of  
8 speeds that are operable, or the libraries where  
9 people are going to go to fill this out. Do they  
10 have their—is E-rate up to date? Is there the kind  
11 of support in terms of expertise at these different  
12 institutions? So, I think yes COPIC could play a big  
13 role. Technology can play a big roll for the census  
14 and I'm not just talking about the actual survey, but  
15 leading up to the survey and after the April 1, 2020.  
16 There's many, many ways that we could be using,  
17 right, COPIC to be part of the survey and the census  
18 be need to count everybody, and in the past we have  
19 not had a great record in New York.

20 CLAYTON BANKS: Thank you.

21 GALE BREWER: Thank you.

22 CHAIRPERSON KOO: Now, I'm going to have  
23 Council Member Kallos.

24 GALE BREWER: Yes, Mr. Kallos. I see him  
25 three—like 365 days a year.

2 COUNCIL MEMBER KALLOS: And it's very  
3 hard to try to keep up with you. I-I--

4 GALE BREWER: You do just fine, Mr.  
5 Kallos.

6 COUNCIL MEMBER KALLOS: It is an honor to  
7 succeed you as the Council and COPIC--

8 GALE BREWER: [interposing] Just ask the  
9 question.

10 COUNCIL MEMBER KALLOS: I won't say nice  
11 things about you. I'm sorry. So, you have a long  
12 history with COPIC. Has it every actually had an  
13 executive director or general counsel or ever  
14 actually been funded?

15 GALE BREWER: It had—I was working for  
16 Mark Green when it was initiated. There were two—I  
17 would say 2 or 3 people on staff who focused and then  
18 the funding ran out. In other words, either he—I  
19 can't remember if he found other things for them to  
20 do or if they went on to other jobs, but I wouldn't  
21 say that the full complement had ever been part of  
22 COPIC and it's why every public advocate since has  
23 not given it full attention because of the staffing  
24 issue. That would be the one challenge that has  
25 accompanied COPIC. No staff.

2 COUNCIL MEMBER KALLOS: Recently, you  
3 passed the law for a Charter Revision Commission that  
4 is currently needing one of the items they identified  
5 was creating independent budgets. COPIC is actually  
6 tasked with being the—the Committee on Open  
7 Government, the Robert Freeman for New York City as  
8 it were. Is this something that you might recommend  
9 to the Charter Revision Commission to look at?

10 GALE BREWER: Yes. I mean I do think for  
11 instance that the Public Advocate's Office would be a  
12 good place to house that, but again you come back to  
13 this issue of having, as you suggest, counsel and  
14 staff to be able to accompany all of those duties.  
15 You can't do it with folks who are also doing other  
16 jobs.

17 COUNCIL MEMBER KALLOS: In terms of the  
18 composition of COPIC, as you see it from the table  
19 there's a whole bunch of the mayoral appointments.  
20 There's the Counsel and then there's the five borough—  
21 so the—the non-mayoral agencies including the Public  
22 Advocate end up being out-out-numbered on that board  
23 by mayoral appointments. So, I guess is it mayoral  
24 or public advocate? Where—where is it? Yeah.

2 GALE BREWER: Well, I mean I think  
3 obviously you and will probably share that the mayor  
4 doesn't have to control everything. So, I would  
5 suggest that there would be fines that have the  
6 mayoral outnumbered, but what I'm also stating is you  
7 need to have people who have a specific expertise if  
8 you're going to do that.

9 COUNCIL MEMBER KALLOS: Thank you.

10 CHAIRPERSON KOO: We have Ms. Barber

11 GALE BREWER: I love Dawn Barger just so  
12 you know.

13 DAWN BARBER: [off mic] Yeah, me, too,  
14 President Brewer. [on mic] I just wanted to say,  
15 Gale that I just fully—I—I fully support you in this.  
16 Thank you for saying that, and—and as I recall from  
17 my last COPIC meeting, it's the staff issue. I could  
18 not be more supportive because as much as we h hear  
19 from these wonderful professors, all this  
20 infrastructure stuff is supper important, but even if  
21 we get to the point where we can afford to adapt and  
22 adopt new technologies, people are the ones who have  
23 to run it, babysit it, take care of it, make it's  
24 responsible for the people of our city, and doing

2 what it's supposed to do. So, that's all. I'm just  
3 fully supportive of President Brewer as usual.

4 GALE BREWER: Thank you Dawn Barber.

5 CHAIRPERSON KOO: We have Jeff  
6 Thamkittikasem.

7 JEFF THAMKITTIKASEM: [off mic] Thank you  
8 Madam President.

9 GALE BREWER: Nice to see you.

10 JEFF THAMKITTIKASEM: It's great to see  
11 you, too. Thank you. I actually am really just  
12 interested in this comment about how can we really  
13 figure out a way to kind of reconfigure COPIC, but  
14 also keep it, you know, as you've said abreast of the  
15 times because I think as Professor Verholst said,  
16 there's a lot also about culture, and what people are  
17 willing to receive and participate in, and as we kind  
18 of go through, there are technology changes, but also  
19 to at least, you know, voice the opinion of the  
20 mayoral side of this, and a lot of operational  
21 agencies are trying to figure out what they can do  
22 while not disrupting what they are doing. And I just  
23 wonder from a process standpoint do you have any  
24 recommendations on how we can stay abreast of the  
25 times in that way?



2                   GALE BREWER: Well, I meant, you know,  
3 having been to the—many meetings of the ACCOs or  
4 people who are the tech folks in the different  
5 agencies, and, you know, going with Allan Lightner  
6 everywhere he traveled. For those who knew him, he's  
7 been around for a long time. I think the issue is  
8 because technology changes so fast, having an outside  
9 voice it's not confrontational, but has the best of  
10 the city in mind and the city agencies in particular  
11 to have some outside ways to bounce off ideas would  
12 be helpful. I have to say, you know, within your  
13 agencies there's a lot of expertise. We know that,  
14 but sometimes they feel a little crushed. I'll be  
15 honest with you having spoken with them on a regular  
16 basis, and I think that for them, too, to have a  
17 place to bounce off ideas would be helpful. So,  
18 it's-it's intra-agency is greatest. As much as DOITT  
19 is doing and as much as MODA is doing, those agency  
20 folks because things change so much. Nothing changes  
21 in housing. There's not one damn thing that I have  
22 learned in 30 years in housing. I can promise you,  
23 but in technology it changes every minute. So, it's  
24 a different type of—if coming together than would—you  
25 might with supportive housing or some other housing

2 group that's going to just try to build. But in your  
3 case, there will be 100 different things in five  
4 years, as you know, and it's hard for the agency. So,  
5 as big as they are to keep up, you know, just the  
6 small thing that we've been talking about for a long  
7 time on procurement. You're trying to fix that.

8 JEFF THAMKITTIKASEM: Yes.

9 GALE BREWER: But if you had some other  
10 outside entity that was supportive, but more  
11 innovative, then maybe that could help in terms of  
12 the innovation for procurement for instance. That's  
13 just one example. I know you have many others, but  
14 that's the one that I'm—I'm familiar with. The  
15 private sector obviously DOITT talks of them, MODA  
16 talks of them. You go to a million different  
17 conferences, but to have a group of people, you know,  
18 selected by the mayor, selected because of their  
19 expertise to be able to, you know, carry your message  
20 so to speak or to come up with some innovative ideas,  
21 I—I think it would be very helpful. This is a—I mean  
22 I was eight years I think Chair of Technology from  
23 2002 to 2000—towards the end. It changed so much, you  
24 wouldn't even know you were in the same hemisphere,  
25 literally. And when we started out, we had no

2 website almost, and look where we are today, and that  
3 won't be the same in 10 years from now.

4 JEFF THAMKITTIKASEM: Okay.

5 GALE BREWER: So, I hope I'm answering  
6 your question, but I think--

7 JEFF THAMKITTIKASEM: [interposing] Oh,  
8 it is--

9 GALE BREWER: --to have something that is  
10 outside but not confrontational, and that meets on a  
11 regular basis, and that can give you feedback and  
12 that has the expertise that you feel is helpful to as  
13 the city. You know, we're so big, but I though--I  
14 think it would be helpful.

15 JEFF THAMKITTIKASEM: Thank you.

16 CHAIRPERSON KOO: Thank you and does  
17 anyone else have any question for our Borough  
18 President? No. Right now I would like to call--

19 GALE BREWER: [interposing] Thank you  
20 very much.

21 CHAIRPERSON KOO: Thank you. Thank you.  
22 Thank you Borough President. Now, I would like to  
23 call our next panel. David Sivert (sp?) and Angel  
24 Diaz, [[background comments/pause] [coughing] You  
25 may start, yeah. Just identify yourselves and start.

2                   DAVID SIFFERT: Thank you so much for  
3 inviting me to speak here today. Thank you to Chair  
4 Koo and to Speaker Johnson and to the Committee and  
5 the Commission. My name is David Siffert. I'm the  
6 Research Coordinator at the Center on Civil Justice  
7 at NYC School of Law. The Center is dedicated to the  
8 study of the Civil Justice System in the United  
9 States, and how it can continue to fulfill its  
10 purposes. The Center is directed by Peter Zimroth,  
11 who is the former corporation counsel for New York  
12 City. Its faculty co-directors are Arthur Miller,  
13 Daniel Issacharoff, John McKenzie and Jeffrey Miller  
14 were some of the most distinguish law professors in  
15 America. Our Board's Advisors is chaired by Sheila  
16 Birnbaum, who's one of the top trial lawyers in the  
17 country and contains some of the nation's most  
18 accomplished plaintiff's lawyers, defense lawyers and  
19 judges. One major focus of the center is providing  
20 access to data and information the civil justice  
21 system. One of our projects for example is a simple  
22 online searchable document database on the subject of  
23 third-party litigation funding. The website, which  
24 we're calling the Dispute Financing Library will  
25 serve as neutral quality-quality repository for the

2 collection of information and data about this new  
3 growing and largely unknown industry. Another  
4 project we are working on involves working with  
5 judges to help them issue orders to administrative  
6 agents in large cases to make public the data  
7 collected in those cases. This project involved  
8 balancing some of the privacy concerns that are being  
9 discussed at this hearing, and making sure the  
10 information we collect is not only anonymized, but  
11 also can't be reversed engineered so that any of the  
12 individual claimants can be identified. Most  
13 recently the center hosted a conference on Artificial  
14 Intelligence in a Democratic Society. The conference  
15 discussed the use of data, algorithms and machine  
16 learning and how to make sure that AI technologies  
17 are developed responsibly. As a result of this work,  
18 the Center is very well aware of the DASILA (sic) and  
19 CARIB (sic) that's facing the world's law and  
20 government. We're far behind the bar in terms in  
21 creating, distributing and using data to make our  
22 government and legal system work better, but we also  
23 lack a lot of the institutional protections and  
24 technical know-how to ensure that this data is used  
25 responsibly in a way that will protect business and

2 ensure that data biases are minimized. Many of the  
3 speakers here can better explain the excellent uses  
4 for data in government and out legal system or about  
5 the dangers to our privacy or about the risks of  
6 algorithm bias. Some may have answers and policy  
7 prescriptions for how to use the data or how not to  
8 use the data, and how to regulate the use of the  
9 data. I have one very simple proposal, and I would  
10 just like to highlight one thing to help navigate  
11 DASILA and CARIB as they're discussed and its  
12 education. The Center is currently working on  
13 educational programs for lawyers and judges to teach  
14 them about data, algorithms and automated decision  
15 making especially as it currently exists in the civil  
16 justice system. We hope to teach about what data is  
17 available, what is not available, what is appropriate  
18 to use in what context and how to use it responsibly.  
19 But the use of data in New York City extends far  
20 beyond the legal profession. The city needs to make  
21 substantial efforts to increase statistical literacy  
22 across the board. Of course, those in city  
23 government who already handle data need to understand  
24 concerns about privacy and bias and those in  
25 government who don't already work with data still

2 need to have sufficient understanding of what data  
3 exists to know whether that data could be used to  
4 improve the work they do, and I believe Professor  
5 Lane got into this a little bit earlier when she  
6 talked about the need to make investments in terms of  
7 the education of members of city government in data  
8 and data analysis. But education cannot just start  
9 and end with the government. Student in New York  
10 City's public schools need to have baseline levels of  
11 statistical competence if they're got to compete in  
12 this economy and if they're going to be able to work  
13 in a world that relies on data. We also need to  
14 create a talent pool that can lead us to a New York  
15 that has true responsible adoption of data use. We  
16 need a populace that understands data, what it is,  
17 what it can do, how to use it appropriately, and the  
18 dangers of using it inappropriately. The Center of  
19 Civil Justice at NYU [bell] is working hard to supply  
20 this education to New Yorkers, and we need your help.  
21 Thank you for your time.

22 ANGEL DIAZ: Good afternoon, Chairman  
23 Koo, Members of COPIC and the Committee on  
24 Technology. My name is Angel Diaz and I am Counsel  
25 to the Liberty and National Security Program at the

2 Brennan Center for Justice at the NYU School of Law.

3 I'm pleased to be here to be testifying about how

4 COPIC and this committee can help advance policies

5 that increase governmental transparency. The Brennan

6 Center is a non-partisan law and policy institute

7 that seeks to improve our systems of democracy and

8 justice. The Liberty and National Security Program

9 focuses on restoring the proper flow of information

10 between the government and the people by securing

11 public access to public information, ensuring that

12 government policies that target suspected criminals

13 and terrorists do not affect—do not target

14 individuals based on their religious, faith or their

15 ethnic background, and we hope to secure appropriate

16 government oversight and accountability. As part of

17 this work, we actively seek greater transparency and

18 oversight of the NYPD surveillance tools. The NYPD

19 has prided itself as being the most transparent

20 police department in the world, but, in fact, the

21 NYPD frequently resisted transparency requiring

22 lawyers, journalists and others to spend significant

23 resources to obtain even basic information that is of

24 critical interest to the public. For example the

25 Brennan Center is party to a multi year legal dispute



2 with the NYPD to obtain information about Predictive  
3 Policing Program. These systems rely on algorithms  
4 to analyze large datasets and generate statistical  
5 estimates about crime, which are used as direct  
6 police resources. Predictive Policing tools have  
7 been roundly criticized by civil liberties and civil  
8 rights advocates as they often rely on historical  
9 crime data that both reflects and recreates decades  
10 of biased enforcement against communities of color.  
11 In addition, there is little consensus that  
12 Predictive Policing is actually effective in  
13 predicting and reducing crime. There's a common  
14 refrain that Predictive Policing predicts policing.  
15 It doesn't predict crime. Despite these efforts,  
16 Police Commissioner—former Police Commissioner  
17 Bratton and Mayor de Blasio announced in 2016 that  
18 the NYPD client will spend \$45 million Predictive  
19 Policing Technologies over the next five years. We  
20 believe it's critical for the public to know more  
21 about the department's existing systems or any future  
22 versions of them, and we, therefor, filed a public  
23 request in July of 2016 for a range of documents that  
24 would shed light on the NYPD's Predictive Policing  
25 efforts including the information about what type of

2 information was fed into the algorithms and the  
3 results that they generated. The NYPD denied our  
4 initial request and our subsequent appeal forcing the  
5 Brennan Center to file suit in late 2016, and despite  
6 months of negotiations, the NPPD continued to  
7 stonewall us refusing to produce most of the  
8 documents that produced—that we requested. In late  
9 2017, a judge finally order the department to produce  
10 records about its testing, development and use of  
11 Predictive Policing tools, but even then it took  
12 almost a full year from the judge's order before the  
13 NYPD finally produced the information of request.  
14 This is just one example of the NYPD's many  
15 surveillance tools. The NYPD also has optic  
16 commission software that can identify individuals  
17 based on their skin tone. It deploys self sight  
18 simulators that can trick every phone in their  
19 vicinity into sharing identifying information, and it  
20 operates a domain awareness system that combines  
21 information from NYPD records and databases with  
22 thousands of public and private security cameras  
23 around the city. Earlier this year a public records  
24 request revealed how the NYPD was engaging in social  
25 media monitoring a Black Lives Matters activist

2 during a protest in 2014. In short, there is a  
3 serious need for mandatory transparency and oversight  
4 when it comes to the NYPD to ensure that the  
5 department is disclosing records and other data that  
6 the public should be entitled to access. This is why  
7 the Brennan Center is calling on this Committee and  
8 COPIC to support the Post Act, a bill that was  
9 reintroduced by Council Member Gibson, and is co-  
10 sponsored by Council Member Lander of this committee.  
11 [bell] The Post Act would require the NYPD to  
12 publicly report on the surveillance tools that it  
13 uses and describe the rules it has for using them.  
14 Although the NYPD may not wish to discuss the  
15 surveillance tools they use, a strong local democracy  
16 like New York City requires at least a basic level of  
17 information about what its local police is doing and  
18 how their doing it. The Post Act is carefully  
19 balance to achieve transparency and accountability  
20 while avoiding the disclosure of operational details  
21 that might compromise police investigations of harm  
22 public safety. In an increasingly data driven  
23 society it is important that our elected officials do  
24 not let transparency fall by the wayside. We commend  
25 this committee for addressing this important issue

2 and urge you to support measures that empower the  
3 public to hold the NYPD accountable. Thank you again  
4 for the opportunity to testify today. I'm happy to  
5 answer any questions.

6 CHAIRPERSON KOO: [coughs] Thank you,  
7 yeah. Mr. Banks has a question.

8 CLAYTON BANKS: Thank you and thank you  
9 for your testimony. It really resonate with me.  
10 [laughs] So—but I'm going to bite on Andrew Rose  
11 who's sitting in here. He may be making a testimony.  
12 I hope I don't get ahead of you, but one of the  
13 things he talks a lot about are terms and conditions  
14 when it comes to anything you sign up for, and he  
15 makes the point that many of us just hit the agree.  
16 I'm curious if within your work, have you analyzed  
17 that? Because what I'm hearing from a lot of those—  
18 for a lot of us who do data, you know, at the end of  
19 it we say oh, here's your terms and conditions, which  
20 we don't read. So, it ends up they can use our data  
21 any way they want. I'm curious if any of you have  
22 done any research around that?

23 DAVID SIFFERT: So, I—the Center on Civil  
24 Justice hasn't actually done any work on that. So, I  
25 can't speak for the Center on the issue. I will say

2 that as a-on-on a personal level this does resonate  
3 with me, and when I was in law school at NYU I  
4 remember thinking that there should be some rule of  
5 contract law that the length of the contract needs to  
6 be proportionate to its value such that if you write  
7 a really, really long contract that for free software  
8 you can't enforce all those terms against someone who  
9 click yes, but-but as a -as a center we haven't done  
10 any specific research of what the effects of that  
11 are.

12                   ANGEL DIAZ: The Brennan Center also has  
13 not done research on terms and service, but it  
14 actually raises an interesting question of how can we  
15 meaningfully use the Internet if you have to agree to  
16 terms and conditions to access any number of  
17 services, and by the same measure, how can move  
18 around New York City without being surveilled by the  
19 police?

20                   CLAYTON BANKS: It's still an issue  
21 Andrew.

22                   CHAIRPERSON KOO: Council Member Yeger.

23                   COUNCIL MEMBER YEGER: Thank you, Mr.  
24 Chair. You indicated, sir, that the NYPD planned to  
25 spend \$45 million on predictive policing technology

2 over the next five years. How much do you think it  
3 should spend?

4 ANGEL DIAZ: Well, I think it should  
5 actually study whether the Predictive programs  
6 actually can work before I'd invest in--

7 COUNCIL MEMBER YEGER: [interposing] How  
8 do you know they haven't

9 ANGEL DIAZ: We've actually been trying  
10 to obtain information that--

11 COUNCIL MEMBER YEGER: [interposing] So,  
12 they haven't told you that they haven't, but do you  
13 assume that because they haven't told you that they  
14 have or haven't—I mean they haven't? They resist  
15 giving you information, which you would then put into  
16 the public domain, information about its surveillance  
17 technology, information about how it works to combat  
18 crime and how it works to protect New Yorkers. Do  
19 you assume because they haven't told you how they do  
20 things they're not doing things?

21 ANGEL DIAZ: I think that the public has  
22 a right to understand what-

23 COUNCIL MEMBER YEGER: [interposing]  
24 That's not my question. My question is: Do you  
25 assume because they haven't told you the fine

2 wonderful people at the Brennan Center for Justice  
3 how they do things, that they're not doing things?

4 ANGEL DIAZ: Well, as-as the judge  
5 ordered the Police Department to turn over  
6 information about--

7 COUNCIL MEMBER YEGER: [interposing] I'm  
8 not-I'm not a judge. I'm a Council Member. My  
9 question is-starts with you said-you said \$45 million  
10 over five years. I asked how much would be  
11 appropriate, and you said they need to tell us how  
12 they do things first--

13 ANGEL DIAZ: Uh-hm.

14 COUNCIL MEMBER YEGER: --and I am-I'm  
15 asking you do-no, you said they need to study how  
16 they do things first, and I'm asking you if you  
17 believe they haven't studied how they do things?

18 ANGEL DIAZ: Well, everything that we  
19 understand about how these systems work, is assuming  
20 that they don't work, and that's all I really  
21 generally do is predict based on where they've  
22 already policed in the past, and they continue to  
23 send officers back to those locations. So, it  
24 doesn't predict where a crime is going to occur. It  
25 just predicts where the police have been in the past.

2 COUNCIL MEMBER YEGER: So, zero is your  
3 answer to my first question?

4 ANGEL DIAZ: Do you want to repeat your  
5 question one more time?

6 COUNCIL MEMBER YEGER: How much should  
7 the city spend on predictive policing technologies  
8 over the next five years?

9 ANGEL DIAZ: Firstly, I don't think the  
10 Police Department should be investing in the systems  
11 that don't work.

12 COUNCIL MEMBER YEGER: Is zero the  
13 question? Is zero the answer?

14 ANGEL DIAZ: If it doesn't work the  
15 answer is yes.

16 COUNCIL MEMBER YEGER: How do you know if  
17 the system works or not?

18 ANGEL DIAZ: It's not that. Council  
19 Member, it's as if it's—there ought to be a New York  
20 City Police Department to produce information that  
21 shared with information that actually works.

22 COUNCIL MEMBER YEGER: I'm sorry. Say  
23 that again.

24

25



2 ANGEL DIAZ: And it's the role of the New  
3 York City Police Department to actually turn over  
4 information about how these things work.

5 COUNCIL MEMBER YEGER: The role of the  
6 Police Department? Is that what you said? I-I  
7 didn't hear the first part of your answer. What?

8 ANGEL DIAZ: The Police Department should  
9 turn over to the public--

10 COUNCIL MEMBER YEGER: [interposing]  
11 Should turn over to the public--

12 ANGEL DIAZ: --so the public has an  
13 accountability over what it is that the Police  
14 Department is doing and its name. If it's  
15 surveilling massive numbers of communities base on  
16 data that doesn't actually show that crime is going  
17 to happen somewhere, it's not acceptable.

18 COUNCIL MEMBER YEGER: Okay, but that's a  
19 different question and answer to the question of  
20 whether or not the city should be spending \$45  
21 million or a 11 cents or somewhere in between on a  
22 technology that you say principally you just don't  
23 like, right?

24

25

2 ANGEL DIAZ: Principally, we'd like to  
3 know more about how they empower. (sic) This doesn't  
4 actually work.

5 COUNCIL MEMBER YEGER: What if they  
6 decide they don't want to tell you?

7 ANGEL DIAZ: We'll continue to file  
8 lawsuits.

9 COUNCIL MEMBER YEGER: Okay and what if  
10 they decide they are going to continue to fight your  
11 lawsuits, but my point is if they decide they don't  
12 want to tell you, and let's say a judge doesn't agree  
13 with you and they're not ordered to tell you.

14 ANGEL DIAZ: No. Several judges have  
15 agreed with us, and—and why we're asked on this  
16 committee just the part of the Post Act would be to  
17 require the Police Department to put—disclose basic  
18 information about how their systems work.

19 COUNCIL MEMBER YEGER: Maybe they don't  
20 want to tell criminals how they do their work.

21 ANGEL DIAZ: Council member,  
22 respectfully, it's in public domain how wiretaps work  
23 and wiretaps continue to produce useful information  
24 that help the police catch criminals.

2 COUNCIL MEMBER YEGER: Right, but what  
3 you're asking for is how they determine what they're  
4 going to do would enable people to change their  
5 behavior as such and to avoid the predictive  
6 technology--I'm assuming because I don't know any  
7 more about it than you do--to avoid those  
8 technologies. I don't know what that means if it's  
9 predictive technology based on pictures of people  
10 though who wear masks. I mean I don't know what the  
11 answer is, but my point is that we don't know, right.  
12 You don't know. I don't know. I don't know more than  
13 you. You don't know more than me I assume or at  
14 least not much more than me. How much should it  
15 spend if not \$45 million? Is the answer zero? Right  
16 now the answer would be zero?

17 CLAYTON BANKS: [interposing] Excuse me.  
18 I only got limited got limited to like one or two  
19 questions. Is this a side bar or I mean--because  
20 you've asked that same questions six times that I  
21 recall.

22 COUNCIL MEMBER YEGER: Try--trying to get  
23 the answer, sir, but the way it's--

24 CLAYTON BANKS: [interposing] It doesn't  
25 sound like he's going to--

2 COUNCIL MEMBER YEGER: The way—the way it  
3 works in this Chamber is that I'm going to be ruled—  
4 required to turn off my microphone, it's the Chairman  
5 who tells me to do that, and all—

6 CLAYTON BANKS: [interposing] I was—I was  
7 just commenting.

8 COUNCIL MEMBER YEGER: --and with due  
9 respect I would appreciate that. If the Chairman is  
10 tired of hearing me he'll let me know and I'll turn  
11 off my microphone.

12

13 ANGEL CHAIRPERSON KOO: Yes, can you  
14 answer the question. No. So, you'd be a lot more  
15 comfortable to provide an answer. Council Member  
16 Yeger, would like to ask another question?

17 COUNCIL MEMBER YEGER: As the Chairman is  
18 saying if you're not able to answer the question, if  
19 you're not comfortable saying what the number should  
20 be, if you're comfortable saying zero and as assume,  
21 but I don't want to assume because I don't want to  
22 put words in your mouth, then just, you know, tell me  
23 that but is something—I mean we're doing a budget  
24 and—and we're working the budget now here in this  
25 Chamber. We just heard from the Mayor on the

2 Preliminary Budget. We're going to be talking about  
3 it over the next three, four months. We all vote—the  
4 Council Member and I vote on the budget, and I don't  
5 know if all of the Council Members are still here,  
6 but there are 49 others who vote on the budget. We'd  
7 like to know should we be raising a red flag with the  
8 Mayor? Mr. Mayor \$45 million is not the right  
9 number. How about \$32 million or maybe 11 cents or  
10 what's the right number?

11 ANGEL DIAZ: I think to answer your  
12 question we'd have to have information about how  
13 these systems work, and so in order to be able to  
14 tell the Mayor how much money they should spend on a—  
15 you need to be able to understand what that system  
16 does and that that system can't do, which is why  
17 we're asking you to support the Post Act, which would  
18 require basic information. So that you are empowered  
19 as with everybody else to continue to make--

20 COUNCIL MEMBER YEGER: [interposing]  
21 Okay.

22 ANGEL DIAZ: --its right nature. (sic)

23 COUNCIL MEMBER YEGER: Okay. Thank you.

24 CHAIRPERSON KOO: So, thank you, yeah.

25 Council—thank you for your testimony. We share your

2 concerns now. So, we will call the next panel. We  
3 have Albert Fox Cahn, Suma [background comment]  
4 Sorry, Harriet Houser—Harriet Summer and Lorel  
5 Hidalgo. [background comments/pause]

6 ALBERT FOX CAHN: Good afternoon My name  
7 is Albert Fox Cahn and I serve as the Executive  
8 Director for the Surveillance Technology Oversight  
9 Project or STOP. Stop advocates and litigates the  
10 privacy rights of New Yorkers impacted suspicionless  
11 warrantless surveillance, and I commend the committee  
12 and Chairman Koo for bringing needed attention to  
13 fight for governmental transparency here today. The  
14 statement I'm going to make is an excerpt of the  
15 longer written remarks that have been entered into  
16 the record. For the past year I've been proud to  
17 partner with the city as part of its Automated  
18 Decisions Systems Task Force meeting with leaders,  
19 academics and advocate to shape recommendations for  
20 the future role of Artificial Intelligence and other  
21 automated decision tools in New York City government.  
22 As part of my role in the Task Force, I have noted  
23 that while transparency is crucial in every area of  
24 government, it nowhere more vital than in policing or  
25 mistakes can quickly rob New Yorkers of their liberty

1 or even their life. As part of today's hearing I  
2 urge the committee to note the urgent need for  
3 greater transparency in NYPD surveillance practices  
4 especially those tools that use Artificial  
5 Intelligence and other automated decision systems.  
6 Specifically I speak today as others have in support  
7 of the Post Act, which would be a significant step  
8 forward in strengthening police oversight, promoting  
9 public safety and safeguarding the New Yorkers'  
10 privacy rights. Historically the NYPD has deployed  
11 novel and highly evasive surveillance technologies in  
12 ways that circumvented democratic oversight and  
13 accountability, circumventing this very Council. The  
14 NYPD has used private and federal funds without any  
15 disclosure to lawmakers that we depend upon to  
16 oversee our police force. With this unaccountable  
17 funding, the NYPD was able to deploy tools like  
18 Stingrays, fake cell towers, the collect sensitive  
19 location and communications data. Like many of the  
20 NYPD's new tools, Stingrays collect sensitive  
21 location and data spying not just on the target of an  
22 investigation, but on untold numbers of bystanders.  
23 Let me be clear, the Post Act does not prohibit the  
24 NYPD from using new surveillance tools. It is not a  
25

2 ban on new technologies. Rather, it merely secures  
3 this Council's indispensable role in reviewing when  
4 and how such tools are deployed. Under the Post Act  
5 the NYPD must issue an impacting use policy report  
6 when choosing new surveillance tools. This report  
7 must describe the technology rules and guidelines for  
8 that technology and safeguards for any data  
9 collected. The City Council and the people of New  
10 York City would then be allowed to provide feedback  
11 on such an acquisition. So it is not a bill that  
12 will set the amount of money being spent on these new  
13 technologies. It is the bill that is the precursor  
14 to that debate. As we just saw here a moment ago,  
15 advocates lack the information necessary to answer  
16 some of the vital questions being presented to this  
17 Council. Also, I would like to note it was  
18 previously mentioned in today's hearing that Public  
19 Law 245 and 247 from 2017 established the Chief  
20 Privacy Officer position here New York City and  
21 protected New Yorkers' private information with new—a  
22 new set of restrictions. We have at STOP are very  
23 concerned that those bills exempted the NYPD, and  
24 exempted any data collected during the course of an  
25 NYPD investigation from the important safeguards



2 being enacted for other city agencies. We will be  
3 working with members of the Council to push a fix for  
4 this loophole in the coming months and we look  
5 forward to working with many members of the Committee  
6 and the Commission to make sure that when New York  
7 City says that it is a sanctuary city that that is a  
8 protection we enforce in all its forms, digital and  
9 otherwise. Thank you so much.

10 SPEAKER JOHNSON: Thank you.

11 Hello, Good afternoon everyone. My name  
12 is Sumana Harihareswara. You can pronounce any  
13 variance and I will probably understand that you're  
14 talking to me. I am a New York City resident. I'm  
15 in Astoria. I'm in Costa's district and I'm a small  
16 business owner. I run Changeset Consulting, which is  
17 a tiny consultancy focusing on project management and  
18 often source software. I don't have any business  
19 with New York City itself although I have worked on  
20 government software, software for government use,  
21 state and municipal use before. So, I have three  
22 things to say, and they're mostly response to things  
23 that came up today so I don't have any printed  
24 testimony for you. First, very quickly I'd like to  
25 second Ms. Brewer. It is really hard for an ordinary

2 resident to even find out anything about COPIC that  
3 it exists. It seems a bit of phantom kind of like  
4 the G Train used to be, and it would be nice, you  
5 know, once we get an non-interim public advocate  
6 right to have the names of the Commission members  
7 listed in a somewhat easier way because all of you  
8 seem like excellent people, and we ought to be able  
9 to know that you're defending our city. Second, the  
10 ADS Task Force there an extremely bare bones website,  
11 and I'm appreciative of every pixel that's on it, but  
12 it would be wonderful if there were a little bit more  
13 information about whether there's any kind of interim  
14 timeline between and when they're actually going to  
15 deliver thee recommendations, and now less than a  
16 year. I understand there's a feedback for where I as  
17 a resident can, you know, punch them in, go right in  
18 there and that's great, but are there going to be any  
19 public hearings? It would be nice to know, and I  
20 figure the folks in this combined session might be  
21 among those who could—who could ask that more  
22 effectively than I could. And third, the Open Data  
23 Portal. New York City's Open Data—Open Data Portal.  
24 I have a question I'd like to answer, and that is  
25 what are the A, E, D deserts in New York City? Let

me explain. My father died of a heart attack . If someone is having a cardiac event, every minute that goes by without their heart getting restarted, reduces the risk of their successful resuscitation by 10%. An automated external defibrillator can in many cases restart that person's heart, and that's why several years ago in 2005 as part of Local Law 20, the City Council passed a law creating a Public Access Defibrillator Registry, and that information is held by Department of Health and Mental Hygiene in coordination with NYC REMSCO, Regional Emergency Medical Sources Council and the Fire Department of New York of the information where there are AEDs in public places including private businesses that are open to the public around the city so that 911 dispatchers can know and can say, Oh, you're at a place with AED. You know, go get somebody to get that and restart—restart that person's heart. There is an app where you can find out where the three nearest ones are, but I want to know where are there huge swatches of the city where maybe there's none within reach, and then we could get local merchants to buy them, and—and put them places. There's a New York State Tax Credit. We could do a lot to possibly

2 save more people from fatal cardiac events. I  
3 submitted a request through NYC's Open Data Portal on  
4 September 21, 2017. I got—you'll get a response in  
5 two weeks notice. I got a close—this issue has been  
6 closed no explanation note on the 22<sup>nd</sup> of November  
7 2017, and now I look at it and the status is simply  
8 marked this has no response, but there's no  
9 indication of why, whether the status is open or  
10 closed or what have you. So, I'd love to some help  
11 with that from the oversight side of you all.

12 SPEAKER JOHNSON: Thank you very much  
13 for your testimony. Thanks for being here today.

14 NOEL HIDALGO: Hello. My name is Noel or  
15 Noel. I'm a Gemini so I have two names. In a  
16 similar way you can call me whatever you want as long  
17 as you know it's me. So, it is an honor to be here  
18 and have this opportunity to represent New York City  
19 Civic Technology, Data and Design. I'm the Executive  
20 Director of a member driven good government group  
21 non-profit organization and we are the advocates for  
22 a city government that is for the people, by the  
23 people and for the digital era. Essentially some  
24 binary that's underneath Lincoln's name up there. In  
25 2020- in 2009 a group of neighbors started meeting to

2 discuss the future of municipal open data and  
3 technology because we were concerned about the lack  
4 of open data, and expensive technology procurements  
5 in New York City, and over the last 10 years over  
6 5,000 of our members have gotten together and have  
7 fought for improvements to people's lives through  
8 technology, data and design. We have watched the  
9 last three public advocates appointed COPIC members,  
10 host one meeting per term and walk out of the office  
11 with little accomplishments. We watched every public  
12 advocate publish flowery press releases only for them  
13 to disappear like tears in the rain, In 2012, we  
14 joined with the City Council member then Gale A.  
15 Brewer to support the city's Open Data Law because  
16 COPIC was absent. Since 2014, we published the  
17 People's Road Map to s Digital New York City, and we  
18 outlined how the city could adopt modern agile  
19 practices to meet pressing needs for a more efficient  
20 participatory and transparent government. out of  
21 those 34 ideas, we have been able to get the city  
22 record online and in a machine-readable format,  
23 ensure that city's Charter and laws are owned by the  
24 people not a publishing corporation, strengthening  
25 the city's Open Data Law through seven interlocking

2 pieces of legislation and formalize the city's Chief  
3 Analytics Officer and the Mayor's Office on Data  
4 Analytics into the Charter. The People's Roadmap  
5 outline ideas that required government partnership,  
6 and for the past four years we've been working  
7 successfully with the Borough President in Manhattan  
8 Gale Brewer, the Brooklyn Borough President Eric  
9 Adams, the Mayor's Office on Data Analytics,  
10 Manhattan and Brooklyn Community Boards, CUNY Service  
11 Corps, the Fund for the City of New York and the  
12 Alfred P. Sloan Foundation to study and test how  
13 community-how communications technologies and Open  
14 Data can equip the public to improve their decision  
15 making. We have published three reports and filed  
16 numerous dataset enhancements with the goal of  
17 improving community decision making. I could go  
18 through all of these achievements, but I'm afraid  
19 that I'm going to run out of time. What I really  
20 want to focus on is that we now have an open data  
21 boot camp. We have suggestions on how community  
22 boards can better use technologies. We have  
23 convinced DOITT to be part of the District Needs  
24 process. We've educated and mentored over 50 CUNY  
25 undergraduate students, and one of our alumnis

2 happens to be your scheduler, Corey. We've built a  
3 suite of specialized tools for community boards and  
4 we've detailed—we have documented in detail  
5 information flows thorough community board and how  
6 they can improve their decision making processes.  
7 We've educated over a thousand New Yorkers on how to  
8 use open data, and we've enriched the local community  
9 of open data professionals and advocates by hosting  
10 three annual citywide open data festivals with the  
11 fourth coming up, Corey in your district. So, if you  
12 want to come, we would love to have you, which is on  
13 Saturday the 2<sup>nd</sup> of March, and we've been doing this  
14 with MODA. We love MODA. We are one of the city's  
15 open data's biggest fans. We've partnered with  
16 Parks, 311, Planning. I could keep on going on, but  
17 essentially we're at the point where we are helping  
18 the city explore and demystify its data. We've  
19 worked with the Department of Education's Computer  
20 Science for All Program to build a generation of the  
21 next citizens. We've been doing this because COPIC  
22 has been missing. At its core COPIC has three  
23 functions: An oversight of government information  
24 and communications and technologies access to public  
25 information and data, and government adoption of new

2 communications technologies. If there is an  
3 opportunity to provide leadership, that time is now.  
4 I conclude my testimony with 12 particular questions  
5 that if you're so interested in rebooting COPIC,  
6 these are the fundamental questions that need to be  
7 asked: More or less what is the role of the Public  
8 Advocate in technology decision making? What is the  
9 role of DOITT doing public facing technology? What  
10 is the role of the Chief Digital Officer, the Chief  
11 Technology Officer? These are big underlying  
12 questions that I think need to be asked from Council  
13 and the Mayor's Office, and if they're effectively  
14 answered, we will effectively have a COPIC for the  
15 21<sup>st</sup> Century.

16 SPEAKER JOHNSON: Thank you Noel. We  
17 have—I appreciate your testimony, and I appreciate  
18 the very thoughtful questions that you put forward,  
19 and we will be sure to make sure whoever the next  
20 Public Advocate is, is, of course, briefed on this  
21 hearing, is provided all the information that's been  
22 discussed here today. So, we have a couple of  
23 questions, and then we have one final panelist that  
24 we're going to hear from. We're going to start Jeff  
25 and then we're going to go to Clayton.



2 JEFF THAMKITTIKASEM: Sorry. I actually  
3 don't have questions so much as to the Speaker about  
4 the AEDs and one as kind of the head of operations  
5 and MODA under us, which operates the Open Data. I  
6 apologize for the experience. I happened to look up.  
7 I know the AED is available right now. It doesn't  
8 have enough land. There's a latitude and longitude  
9 to kind of do an actual visualization of what it is,  
10 but the leagues, the boroughs all of that is there.  
11 It's published by the Parks Department. Again, I  
12 apologize for your experience.

13 SUMA HARIHARESWARA: Maybe I could follow  
14 up with you--

15 JEFF THAMKITTIKASEM: sure.

16 SUMA HARIHARESWARA: --on one about this  
17 later because I believe there a list with addresses  
18 that REMSCO holds, and so that would, you know, could  
19 be resolved for that one.

20 JEFF THAMKITTIKASEM: Yes, we're happy to  
21 definitely work with you on this, but certainly I  
22 continue to build up our ability to kind of answer  
23 specific questions by New Yorkers so thank you.

24 SPEAKER JOHNSON: And just as a follow up  
25 to that, I'm very sorry about your loss and that that

2 happened. The Council in the last few years has  
3 expanded AED legislation. So, we've gotten it in the  
4 hand of Little Leagues across the city. There was a  
5 staff member here whose son nearly died three years  
6 ago because he was hit in the chest with a baseball  
7 in Central Park, and if there was not an AED on site  
8 the doctor said that he would have died. He as 16  
9 years old at that time. So, I'm proud of the work  
10 we're doing, but as you said, we need to ensure that  
11 public knows where the AEDs are and that it's easily  
12 findable, searchable and relatable for people who  
13 need it most.

14 SUMA HARIHARESWARA: Absolutely. There  
15 was a—in follow up to that law in 2005, creating this  
16 AED registry there were actually five follow-up  
17 reports each subsequent year for five years, and I  
18 got those DOHMH since they weren't on NYC.gov and  
19 those would be right for analysis to see if there's  
20 any refreshes that need to happen in general for a  
21 policy lever for PAD.

22 SPEAKER JOHNSON: I mean this points to I  
23 think a much bigger question that we have been  
24 looking at over the last year and probably before I  
25 was Speaker, which is we pass all sorts of reporting

2 legislation. What happen with those reports? How  
3 does the public see those reports? Are those  
4 worthwhile reports? Where is the repository of those  
5 reports? How were those reports used by Council  
6 Members, by the public, by the agencies, and so we  
7 have been working over the past year on looing at the  
8 number or reports that are supposed to be issued by  
9 city agencies. The number of reports that are not  
10 issued by city agencies and what we can do to  
11 actually ensure that there is greater compliance so  
12 that when we pass legislation it's actually  
13 meaningful in some ways. So, I think this is a great  
14 example.

15 SUMA HARIHARESWARA: [interposing] That  
16 sound great, yeah.

17 SPEAKER JOHNSON: --of-of-of sort of a  
18 deficiency in that process. I want to go to Clayton  
19 and then we're going to go to our final Witness.

20 CLAYTON BANKS: This question is of Noel.  
21 You talked about--first of all, I'm just a big fan of  
22 Beta NYC. I love what you've done. You listed a lot  
23 of the accomplishments in here. I'm curious. A two-  
24 two part question. I'm curious if you think COPIC  
25 should be like Beta NYC or Beta NYC should be like

2 COPIC is one question and the other is you refer to,  
3 which every one is going to need governmental  
4 resources. Do you have any idea of what you're  
5 thinking about and how this should be resourced  
6 properly?

7 NOEL HIDALGO: Thank you and it's been an  
8 honor to work with Silicon Harlem. So we've—Beta NYC  
9 has stepped into a void where COPIC should have been  
10 in regards to educating the general public around  
11 public information and giving technology guidance and  
12 also research. This is what we've been able to do as  
13 a small group of dedicated full-time staff members.  
14 In no way, shape or form is Beta NYC replacing COPIC.  
15 We're only kind of articulating and standing in that  
16 place. We actually think that MODA is one  
17 representative of COPIC functions. The series of  
18 pieces of legislation that we've gotten past really  
19 speaks to the Public Data Directory, Charter  
20 Amendments or the—the parts in the Charter for COPIC,  
21 the Open Data Directory. MODA has successfully been  
22 able to accomplish that in the seven pieces of  
23 legislation that we've gotten past that are  
24 interlocking fulfills that. There's another part of  
25 COPIC that's really missing and that's around the

2 technology advice and guidance and hopefully  
3 construction. We know that DOITT is—does a great job  
4 when it comes down to technology contracting. We are  
5 now in a point where government is producing  
6 technology and I know Sammy you've cone up with a 10-  
7 point plan, and I've been hearing from you and your  
8 predecessor that there's going to be better in-  
9 sourcing for government technology, but we've seen  
10 successes like 18F and the U.S. Digital Services  
11 produce things at the federal government that are  
12 leaner and more effective of conveying public  
13 information. We have two really great agencies  
14 inside of New York City, the New York City Planning  
15 Labs as well as NYC Opportunity that are doing a  
16 great job of building technology inside of city  
17 government that is more effective of complaint-  
18 displaying information. So, COPIC needs to do its  
19 job of oversight but it needs to oversee agencies  
20 that are building modern technology. COPIC as a 30-  
21 year-old commission cannot continue to verse 30-year-  
22 old technology. Otherwise, we will continue to be in  
23 the same hearing 'til we age out of our own  
24 existence. And so, we need to see an evolution of  
25 both COPIC and New York City government technology

2 and there's a lot of examples that are on the table.  
3 We really hope that, you know, this next two years  
4 before this Administration kind of closes everything  
5 out we can see improvements. I should also point out  
6 DORIS has done a great job of adopting open source  
7 tools in regards to centralizing the FOIL system, and  
8 there's great get HUB repo, and so if I have an issue  
9 I can go and I can file that. Like COPIC should be  
10 leading the way, and we need public oversight of  
11 these types of technologies. Beta NYC is never going  
12 to be that replacement so-

13 SPEAKER JOHNSON: Thank you.

14 CLAYTON BANKS: Thank you.

15 SUMA HARIHARESWARA: And I may have  
16 misspoken. It's the Fire Department of New York not  
17 NYPD.

18 SPEAKER JOHNSON: Thank you very much.

19 CLAYTON BANKS: Otherwise, Samir is going  
20 to be speaking in Harlem tomorrow night. Go to  
21 SiloconHarlem.net. So, it's got Samir's ten points.

22 SPEAKER JOHNSON: Thank you very much.

23 We're going to thank you all. We're going to call  
24 our final witness Kevin Roche. [pause]

2                   ANDREW RASIEJ: Thank you everybody.

3 Thank you Speaker and the COPIC Committee. I really  
4 am honored to be here today. I'll try to be as brief  
5 as possible because I know everybody has been here  
6 for a little bit. In 2005 I ran for the Office of  
7 Public Advocate on a platform to transform the office  
8 into a network of public advocates all around the  
9 city who would use WiFi Broadband technologies to  
10 connect with each other, build coalitions and  
11 advocate for their communities. Very few people  
12 understood what I was talking about or believed it  
13 could be done. The New York Times Editorial Board in  
14 my endorsement in the View asked me to explain what  
15 WiFi was. Journalists covering the campaign asked me  
16 how I could possibly wire the entire city on the  
17 Public Advocate's measly budget. And candidates for  
18 Mayor the same year asked me if WiFi meant that we  
19 would have dig up the streets. Their doubt and  
20 ignorance was not so hard to understand. At the time  
21 social media was still a nascent emerging technology.  
22 There was no Twitter. There was no LinkedIn. There  
23 was no Facebook. Facebook, in fact, was still a  
24 platform mostly for college students. We were  
25 carrying flip phones like motor on the start tax and

2 paying fifty cents for each text message we either  
3 sent or received. How things have changed. Today we  
4 live in a hyper connected world. The Internet and  
5 mobile technologies have transformed our economy and  
6 lives. Mayor de Blasio has made universal access to  
7 free WiFi and low-cost broadband for all New Yorkers  
8 a major policy bill. Our start tax have evolved into  
9 Smart phones for better or for worse that have become  
10 indispensable in how we live, work and play. Every  
11 business not in technology is now rushing to  
12 transform itself into a digital enterprise in order  
13 to compete with millions of tech start-ups looking to  
14 disrupt their marketplaces. Cloud computing has  
15 become ubiquitous in almost free. Students are  
16 choosing careers in data science in droves.  
17 Professionals in every major industry are taking  
18 classes in digital skills to help them either perform  
19 better in their jobs or give them the tools they need  
20 to start their own start-ups. And although there are  
21 serious issues and challenges that all these  
22 technologies present particularly around the use of—  
23 he use of and safety of people's private data, the  
24 distribution of fake and biased media as well as the  
25 ever-growing threat of cyber warfare, the technology



2 itself continues to evolve dramatically and at even  
3 faster rates. Artificial Intelligence is now being  
4 embedded in every new technology, 5G and small cell  
5 technologies are being deployed and data science is  
6 transforming commerce, medicine and finance.

7 However, the one place technology has failed to  
8 really impact is the government. Walk in to many New  
9 York City government offices and you will see papers  
10 piled on top of file cabinets. Go online to apply  
11 for government service and you mostly will find the  
12 same website that was built 15 years ago. Our public  
13 schools and our police precincts—precincts  
14 essentially look and operate the same way they did 40  
15 years ago. We can order a special meal to be  
16 delivered with a few swipes of our Smart Phone, but  
17 apply for SNAP benefits still requires a paper  
18 application faxed to a government office. That's not  
19 to say that government hasn't made any progress in  
20 the use of technology. As mentioned earlier, her by  
21 some of my colleagues the New York City Open Data Law  
22 has championed them by—by then City Councilwoman Gale  
23 Brewer has opened up vast amounts of data for public  
24 consumption offering more transparency and catalyzing  
25 and creating many new applications built by the

2 private sector and not just by government. Our  
3 subways sometimes even tell us when they're arriving  
4 and Easy Pass is essentially eliminated lines to pay  
5 tolls in bridges—at our bridges and tunnels. Our  
6 schools are now wired with Broadband, and thanks to  
7 funding by the Manhattan DA, the police officers  
8 that—of our city now carry Smart Phones, too. But  
9 procedures to provide standardized—but—I'm sorry.  
10 But unfortunately such innovations are few and far  
11 between. City agencies do not have procedures to  
12 standardize data. There are few resources to train  
13 city workers in digital skills to help them do their  
14 jobs much less learn critical cyber security  
15 procedures to keep our city safe. The city still  
16 maintains much of its data in siloed physical data  
17 center wasting millions of dollars on physical  
18 infrastructure that is also costly to maintain and  
19 power. While the rest of the world is designing and  
20 driving Teslas, New York City Government is still  
21 driving a 1985 Pontiac. It doesn't have to be this  
22 way. New technologies offer the New York City  
23 opportunities to transform our city into a more  
24 efficient and effective and responsive place. I'm  
25 sure everyone in this room and everyone who isn't

2 here and cares about our city and its people would  
3 agree with me: The questions is how to make it  
4 happen. One way is for the New York City government  
5 to develop a strategic plan to transform itself into  
6 a more modern and digitally capable institution. In  
7 the past, the city has relied on the Department of  
8 Information Technology and Telecommunications, DOITT  
9 for about half—a little bit more than half of the  
10 agency's technology needs. The problem is that the  
11 other agencies do a dozen service, have their own  
12 technology infrastructure and procedures. Few are  
13 coordinated with each other, few share data or  
14 outside services and virtually none provide  
15 professional development for their staff. There is  
16 no single agency that is responsible for the entire  
17 city's technology infrastructure capacity. Also  
18 because people working at these agencies are busy  
19 running their—running them everyday, their ability to  
20 develop strategic plans for technology is much less—  
21 much less, using (sic) one is very limited.  
22 Therefore, it is now imperative the City Council,  
23 possibly empowering COPIC or through some other  
24 mechanism create a separate strategic planning  
25 commission which would include representatives from

2 the Office of the Mayor, Comptroller, the Public  
3 Advocate along with advisors from the private sector  
4 and potentially former government officials to  
5 research what the city can do to upgrade its  
6 proficiency and the use of information technology.  
7 If the goal of this hearing is to discuss ways the  
8 city could increase government transparency, the  
9 public access to government information, protect the  
10 privacy of New Yorkers and facilitate the data  
11 sharing by government agencies, the prerequisite is  
12 for the city to develop just such a plan. As well  
13 meaning and thoughtful as the other recommendations  
14 being offered here today may be, they will be not  
15 likely to succeed if a strategic plan develop—they  
16 will be more likely to succeed if a strategic plan is  
17 developed particularly with a non-political  
18 perspective with the support of the private sector  
19 and other advisors. I'm almost finished. Today, if  
20 I was the Public Advocate--by the way I'm not running  
21 again just to be clear--[laughter] the idea of  
22 building a network for all the city's public  
23 advocates connected by WiFi and Broadband would not  
24 only be believable, but it would also be possible.  
25 What our cities needs now more than anything else to

2 face the challenges and the opportunities of the  
3 inevitable technological future is having leaders who  
4 have a vision and a will to change the way the city  
5 works. If not now, when? And if not you, who?  
6 Thank you very much.

7 SPEAKER JOHNSON: Thank you Andrew for  
8 being here and for all the advocacy that you've done  
9 for a very long time being so far ahead of the curve  
10 on so much of the conversation that we have to have.  
11 Is there any—Mr. Banks. Clayton has a question?  
12 Anyone else? The Commissioner yes.

13 CLAYTON BANKS: Andrew, you talk about a  
14 strategic plan. How inclusive do you think that  
15 could be really? I mean is it—is it—were you looking  
16 at the communities? You're looking at five boroughs.  
17 You're looking at people feuding with the land use?  
18 Like what—how big can this be?

19 ANDREW RASIEJ: Well, I mean the—the make  
20 up obviously has to make sure that it reflects the  
21 diversity of our city. Diversity not only of where  
22 people—people themselves, but also of industry. But  
23 to be honest, I've been advocating for a strategic  
24 plan for the city of New York's technologic—  
25 technology for a really long time. I tried to

2 convince the Mayor to appoint a Deputy Mayor for  
3 Technology. He chose instead to create the Office of  
4 Chief Technology Officer, a very well meaning  
5 potential role. Unfortunately, the role was not  
6 filled until six months after his administration  
7 started. It had to borrow money from the DOITT, the  
8 budget in order to exist, and it was n ever empowered  
9 to—to really integrate into all of the other city's  
10 efforts. The—the leadership of that office has  
11 changed a number of times and the problem for any  
12 Mayor, and frankly for any changing government is  
13 that there's never enough time to do any kind of  
14 strategic planning. So, we rely on these kinds of  
15 commissions and committee hearings to try to help  
16 move the needle, and obviously pass some legislation  
17 like the Open Data Law and other types of legislation  
18 to help move the needle, but we never step back far  
19 enough to take a look at this holistically. And what  
20 I'm advocating for is that the City Council, the  
21 Comptroller, the Mayor, the Public Advocate and other  
22 come together in a non-partisan way not worrying  
23 about the politics of today, but to design a  
24 strategic plan so that the next administration taking  
25 office after the next election actually has a road

2 map so that we don't have to have hearings like this.  
3 Because this kind of hearing has been happening for  
4 20 years, and it's time for us to step back and  
5 finally structurally change the way the city  
6 approaches technology. Not as a slice of the pie,  
7 but actually as the pan that supports the entire city  
8 of New York.

9 SPEAKER JOHNSON: Thank you.  
10 Commissioner okay.

11 SAMIR SAINI: Great. Thank you for your  
12 testimony. I just wanted to sort of answer that last  
13 question that you made, which is if not now, right,  
14 when? Well, the time is now, right and then who is  
15 me and my agency in close collaboration with City  
16 Hall the Mayor's Office on Data Analytics with the  
17 CTOs Office, with the CYBER Team, with the agency's  
18 CIOs and Commissioners. This happening right now.  
19 So, very soon I think I mentioned earlier we had  
20 released—DOITT had released a 10-point plan. One of  
21 those points—all of those points really driven around  
22 long-term strategic goals that we want to attack to  
23 leverage technology to improve quality of life. Part  
24 of it is about tools to enable agencies to do that—  
25 to—to play that role and part of it is DOITT itself

2 leveraging new innovative technologies to improve  
3 quality of life for New Yorkers including things  
4 around Broadband in partnership with the CTO's  
5 office, but this is in motion. The ten point plan  
6 was released but the next month a detailed roadmap,  
7 right will be released that I would encourage you to  
8 look at and give us feedback on because that's going  
9 to be rally critical for us to-to get input from-from  
10 the public on whether this plan is the right plan.  
11 But I can-I can assure you that coming now a year in  
12 the role that the--the points you articulated in your  
13 testimony are-are-are valid. We need to do a better  
14 job, right to strengthen how we leverage technology  
15 to-to improve the city right, and its growth, and we  
16 are-we are doing it, and we're publishing these plans  
17 and-and we're just seeking-seeking of it, right, from  
18 the public on whether we're-we're on the right track.

19 ANDREW RASIEJ: So, commissioner just to  
20 quickly comment on your comment, first of all I'm  
21 sorry if my comments sounded like friendly fire--

22 SAMIR SAINI: No, it's okay.

23 ANDREW RASIEJ: It was up to me, you'd be  
24 the Deputy Mayor for Technology as opposed just the  
25 Commissioner of DOITT. As I mentioned in my



2 testimony, you do support a large portion of the city  
3 agencies with their information technology, but you  
4 don't support all of them. It's very difficult for  
5 you to be able to change the behavior of agencies  
6 that you don't actually have reporting mechanisms  
7 for. Every CIO frankly should be reporting to you  
8 and to their Commissioner, but more importantly, the  
9 City Charter needs to be adjusted and changed. The  
10 Charter was written in the industrial age. It needs  
11 to be written in the information age, and as much as  
12 you may try, and I agree that all your points are  
13 definitely moving the needle, there is a prerequisite  
14 to—to do something greater than just follow the same  
15 model that we've been following from our previous  
16 administrations and actually bring ourselves parallel  
17 to what the private sector does in the way it purges  
18 and uses technology, and you for example don't have a  
19 budget to make sure that every city worker is trained  
20 in digital skills. That's not your job. That's not  
21 in your—it's not your—you don't have the budget to do  
22 it, and it's not your mandate to do. So, what I'm  
23 suggesting is to work off of your plan, partner with  
24 the private sector, but have all three—four major  
25 departments of government, the Mayor's Office, the

2 Comptroller's Office, the City Council and the Public  
3 Advocate work together so that there's no partisan  
4 harping around whose got power over what, and develop  
5 a strategic plan for the next administration not for  
6 implementation now, but for a road map for the future  
7 and so it's not to be an indictment of your work,  
8 which is very important, but we need to think bigger  
9 and broader to succeed.

10 SPEAKER JOHNSON: Andrew, thank you for  
11 being here.

12 ANDREW RASIEJ: Thank you.

13 SPEAKER JOHNSON: Thank you very much.  
14 Seeing no other witnesses, I want to thank those--all  
15 of you that took time out of your busy schedule to be  
16 here today to testify. I want to thank the members of  
17 COPIC for being here. I want to thank Peter Koo, the  
18 Chair of our Technology Committee and the members of  
19 the Technology Committee who joined us here today for  
20 their participation in this joint hearing. I'm glad  
21 we had this hearing, and I will make sure that  
22 whoever the next Public Advocate is will have all the  
23 information related to COPIC so that they can, of  
24 course, continue I hope to call this body together to

2 talk about these important issues, and with that,  
3 this hearing is now adjourned. [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 March 15, 2019