

FEDERAL TRADE COMMISSION

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EXPLORING PRIVACY: AN FTC ROUNDTABLE DISCUSSION

Wednesday, March 17, 2010

8:30 a.m.

Federal Trade Commission  
FTC Conference Center  
601 New Jersey Avenue, N.W.  
Washington, D.C.

FEDERAL TRADE COMMISSION

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## 1 P R O C E E D I N G S

2 (8:30 a.m.)

## 3 WELCOMING REMARKS

4 MR. OLSEN: All right. If everyone will get  
5 settled, we're going to start now. I'd like to welcome  
6 everyone to the third and final roundtable in our series,  
7 Exploring Privacy. It's great to see that we've carried  
8 the momentum over from roundtable one through our  
9 Berkeley event and now to our final event here in D.C.

10 I need to make a few housekeeping  
11 announcements. The first, and perhaps most important to  
12 at least one individual, is we located an iPhone charging  
13 in a wall outlet, and it's available at the registration  
14 desk up front.

15 There are food and beverages available out in  
16 the hallway. There's also a list of other eateries  
17 available at the registration desk. Restrooms are  
18 located through the lobby. Don't go through the security  
19 stands. Go around past the elevators.

20 There's a Wi-Fi code for you to use to get  
21 broadband. The code is CABE 010808. There's also a  
22 brochure outside that has that code.

23 Anyone who goes out of the building without an  
24 FTC badge will have to come back through security. So,  
25 make sure you build in some time for that.

1           This is perhaps the most exciting announcement.  
2       In the case of an emergency, you'll have to evacuate the  
3       building and you'll go outside the building -- New Jersey  
4       Avenue is just in front. Across the street is Georgetown  
5       Law School. You go to the right front sidewalk at  
6       Georgetown Law School. We actually have a rallying point  
7       in case of an evacuation.

8           We'll have questions today. We'll have people  
9       in the audience with question cards. So, if you have a  
10      question during the event, please raise your hand.  
11      Someone will come to you with a question card. I think  
12      you have cards in your packages, as well. So, you can  
13      fill out a question and people will pick them up and  
14      deliver them to the moderators. For the web audience,  
15      we're also accepting questions. You can email them to  
16      privacyroundtable@FTC.gov. So, that takes care of the  
17      logistic announcements.

18           We're very pleased this morning to have  
19      Commissioner Pamela Jones Harbour provide opening remarks  
20      all the way from Barcelona. And we're very pleased that  
21      we worked the technology out, hopefully, so that this  
22      will be a seamless process. So, Commissioner Harbour,  
23      welcome.

24

25

1 INTRODUCTORY REMARKS: COMMISSIONER PAMELA JONES HARBOUR

2 COMMISSIONER HARBOUR: Hello. Welcome, Chris.

3 Good morning. And welcome to the third FTC Exploring  
4 Privacy roundtable. Thank you very much, Chris, for your  
5 introduction. And let me personally thank all of the  
6 talented FTC staff who have worked tirelessly this past  
7 year to make these events happen.

8 You've heard where I am. Yes, I am in  
9 Barcelona, Spain, coming to you by video. A few hours  
10 ago, I delivered one of the keynote speeches to the  
11 Secure Cloud Alliance 2010 event. But I certainly did  
12 not want to pass up the opportunity to deliver remarks  
13 today at the third and final privacy roundtable.

14 And when I spoke back in December, I mentioned  
15 that I soon would be leaving the Commission. This time,  
16 I am really serious. I recently announced that I will  
17 depart on April 6th and this will be my final speech,  
18 albeit 3,500 miles away. And for the last time, I note  
19 that my remarks today are my own and not necessarily  
20 those of the Federal Trade Commission or any individual  
21 Commissioner.

22 I've said it many times before and I will say  
23 it again today. Protecting consumer privacy is of utmost  
24 importance. It must be a driving force for businesses in  
25 all stages of product and service development.

1 Unfortunately, many of the companies that consumers look  
2 to as leaders and that we expect to be leaders still have  
3 not taken this message entirely to heart.

4 First, I want to challenge what I see as a  
5 dangerous precedent being set by some of the biggest and  
6 most influential technology companies when they publicly  
7 expose consumer data. And, second, I want to challenge  
8 companies that are not adequately protecting consumers  
9 through SSL technology.

10 At the last roundtable in Berkeley, I discussed  
11 the comments of a technology executive who claimed that  
12 privacy expectations and norms are changing. More  
13 recently, since the Berkeley event, the press has  
14 recycled the comments of another prominent tech executive  
15 who stated, if you have something that you don't want  
16 someone to know, maybe you shouldn't be doing it in the  
17 first place.

18 Speaking for the last time as a regulator, let  
19 me be very clear. I could not disagree more with that  
20 assertion. Privacy is a fundamental right that people do  
21 care about. And I believe that the Commission and my  
22 fellow Commissioners would share this opinion. The  
23 Commission will continue to view privacy as an important  
24 value as reflected in the norms and expectations of  
25 consumers until it is proven that consumers feel

1 otherwise about their privacy.

2           The Commission will continue to evaluate  
3 consumers' preferences and armed with these insights, I  
4 hope and expect that the Commission will continue to  
5 shape the conversation about the intrinsic value of  
6 privacy. But make no mistake, the Commission will  
7 unflinchingly step in to protect consumers where we believe  
8 the law has been violated and that includes violations  
9 relating to privacy promises.

10           And I'm going to be even more specific in my  
11 admonition to provide some concrete examples for today's  
12 discussion. The recent launch of Google Buzz was, quite  
13 frankly, irresponsible conduct by a company like Google.  
14 I would use that same word to describe the prior rollout  
15 of Facebook's new privacy settings as well as the  
16 November 2007 release of Facebook Beacon. But, for now,  
17 I will focus on the Buzz example.

18           Google is one of the greatest technology  
19 leaders of our time. Google consistently tells the  
20 public to just trust us and has adopted a company motto  
21 "do no evil." We have high expectations for Google as a  
22 corporate citizen. But for me, based on my observations,  
23 I do not believe that privacy, consumer privacy, played  
24 any significant role in the release of Buzz. In the  
25 rush, perhaps, to compete with Facebook, Foursquare,

1 Twitter, FriendFeed, Loopt and a host of other companies,  
2 it appears that Google did not think through the privacy  
3 implications of this launch.

4           New technology such as Buzz, like some of the  
5 updated features offered on Facebook, represent a  
6 laudable effort to help consumers integrate and make  
7 sense of the daily overload of information that bombards  
8 them via email, photos, blogs, tweets, news feeds and the  
9 like. And, today, consumers tend to have separate online  
10 accounts for a variety of services and often they  
11 maintain multiple profiles to separate their personal and  
12 professional uses. Plus, many companies do one thing  
13 very well, and accordingly, consumers are then willing to  
14 enter relationships with multiple firms.

15           A common characteristic of the most successful  
16 web 2.0 companies is that they thrive on the network  
17 effect. That is to say, the greater the number of users  
18 or number of inputs, the better the experience, which  
19 further enhances the trend toward interacting with  
20 multiple data sources.

21           When Buzz was launched, Google described its  
22 function as finding relevance in the noise. It is no  
23 wonder that seeking to capitalize on network effects,  
24 Google decided to build its service by turning to its  
25 installed base of approximately 150 million Gmail users.



1 Unfortunately, to my knowledge, none of those users were  
2 consulted before Google unilaterally decided how best to  
3 use their data. When users created Gmail accounts, they  
4 signed up for email services. That is their primary use  
5 of Gmail.

6           Several years ago when Google first introduced  
7 Talk, many users were taken aback that their email  
8 address book contacts were automatically suggested as  
9 Talk contacts. Publicly, there was a backlash and Google  
10 rolled back the Talk offerings. But the company  
11 apparently failed to learn from that prior mistake. Buzz  
12 was designed as a social network for users, but the net  
13 was cast too widely. News reports indicate that the  
14 company claims to have tested Buzz extensively with  
15 thousands of employees. The problem is Google employees  
16 are, in no way, representative of the Gmail user base, a  
17 combination of young, old, tech savvy, novice and so on.  
18 The Buzz product business manager admitted as much,  
19 saying that getting feedback from 20,000 Googlers does  
20 not equal Gmail users in the wild.

21           So, think about it. When Gmail first emerged,  
22 social networking was barely even a reality. When  
23 consumers, especially early adopters, created their Gmail  
24 accounts, their expectations did not include social  
25 networking. In my view, therefore, a reasonable consumer

1 would consider the initial opt-in of Buzz to be a  
2 material change in her relationship with Google.  
3 Consumers, not companies, should exercise the ultimate  
4 decision on whether they want to sign up for new features  
5 that might expose additional data.

6 I am especially concerned that technology  
7 companies are learning harmful lessons from each other's  
8 attempts to push the privacy envelope. Of course,  
9 providing new features to users and making the user  
10 experience more enjoyable are excellent goals. These  
11 efforts may win new users while also building additional  
12 loyalty in the existing user base. But even the most  
13 respected and popular online companies, the ones who  
14 claim to respect privacy, continue to launch products  
15 where their guiding privacy principle appears to be throw  
16 it up against the wall and see about if it sticks. And  
17 if not, we can always pull it back. Deeds speak louder  
18 than words. And this is turning into a dangerous game of  
19 copycat behavior.

20 And unlike a lot of tech products, consumer  
21 privacy cannot be run in Beta. Once data is shared,  
22 control is lost forever. In the extreme, it is only a  
23 matter of time before one might imagine the introduction  
24 of new features that incorporate, for instance, genomic  
25 information or data from public health records. The

1 privacy stakes will only get higher. And I realize that  
2 perhaps companies continue to take a testing the water  
3 approach to privacy because no regulatory agency has sent  
4 a clear message that this behavior is unacceptable.

5 In my opinion, that message may need to change  
6 and I would like to see the Commission take the position  
7 of intolerance towards companies that push the privacy  
8 envelope, then backtrack and modify their offerings after  
9 facing consumer and regulator backlash. In the meantime,  
10 however, companies should exercise greater responsibility  
11 and be more circumspect before launching game-changing  
12 products.

13 Computer algorithms should not be trusted to  
14 interpret consumer's privacy expectations. Consumers  
15 still have an expectation of privacy. These norms do not  
16 change and cannot be assumed away every time a company  
17 wants to compete in a new market. We cannot accept a new  
18 paradigm where products and services do not offer user  
19 choice, materially changing the bargain consumers  
20 understood when they first established the relationship.

21 Now, I don't want to be accused of harping only  
22 on Google. So, let me turn to my second admonition,  
23 which is targeted at a large number of prominent firms  
24 and which addresses an important issue of data security.  
25 I worry that many consumer-facing computing services have

1 significant data security vulnerabilities, especially  
2 services offered in what we call the cloud.

3 Encryption technology is already built into  
4 every popular web browser, but here is an unpleasant  
5 truth. Many popular services employ encryption  
6 technology and only transmit initial log-in information  
7 such as user names and passwords. All subsequent data is  
8 sent in the clear, unencrypted. This problem affects  
9 services such as Microsoft Hotmail, Yahoo! Mail, Flickr,  
10 Facebook and MySpace. This practice exposes consumers to  
11 significant risks when they connect to popular cloud-  
12 based services using public wireless networks in coffee  
13 shops, airports and other public hot spots. Without  
14 encryption, user data is easily intercepted using freely  
15 available, off-the-rack hacking tools.

16 And I spoke last fall at the International  
17 Conference of Data and Privacy Protection Commissioners  
18 in Madrid, and one of the most memorable speakers was a  
19 white hat, or ethical hacker for those who aren't  
20 familiar with the term. And during his presentation this  
21 hacker -- ethical hacker demonstrated how he easily could  
22 break in to a network computer in a matter of mere  
23 minutes. It was very sobering indeed.

24 Many users of cloud computing services lack the  
25 basic security protections that users of traditional PC-

1 based software often take for granted. These  
2 vulnerabilities are easily preventable. Many web-based  
3 services, including online banking and certain online  
4 merchants, operate securely over wireless networks.

5 As a notable example, many banks in the  
6 financial sector use the industry standard secure socket  
7 layer, SSL, encryption protocol to protect their  
8 customers' information. These encryption technologies  
9 are widely available, yet many service providers choose  
10 not to implement these technologies for all data  
11 transfers and instead continue to provide products and  
12 services with unsafe default settings. Even though  
13 these service providers know about the vulnerabilities  
14 and the ease with which they can be exploited, the firms  
15 continue to send private customer information over  
16 unsecured Internet connections that easily could have  
17 been secured.

18 And so, my bottom line is simple. Security  
19 needs to be a default in the cloud. Today, I challenge  
20 all of the companies that are not yet using SSL by  
21 default -- that includes all email providers, all social  
22 networking sites, and any website that transmits consumer  
23 data -- step up and protect consumers. Don't do it just  
24 some of the time. Make your websites secure by default.

25 Let me end by saying that I've been speaking

1 publicly and have been very outspoken on privacy and data  
2 security issues for six and a half years now. And I have  
3 continually pushed companies to be leaders on privacy and  
4 data security. And I hope my words have resonated with  
5 some of you and that commentators and industry  
6 representatives will thoughtfully address my concerns.  
7 And now that I am leaving the Commission, the voices of  
8 two new Commissioners will emerge, Edith Ramirez and  
9 Julie Brill, are both incredibly bright and talented.  
10 And I know they will continue to fight on behalf of  
11 consumers as I have tried to do all of these years.

12 Let me end by saying it has been my great  
13 privilege and pleasure to serve the American public.

14 Thank you.

15 (Applause)

16 MR. OLSEN: Thank you very much, Commissioner  
17 Harbour. Now I'd like to welcome Bureau Director David  
18 Vladeck for opening remarks.

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1                   SETTING THE STAGE:   DAVID VLADECK

2                   MR. VLADECK:   Good morning.   Let me start out  
3 with some thank yous.   First of all, thank you all for  
4 coming.   We are now down to the hardcore, but it's great  
5 to see that there's such a good turnout today.

6                   Next, I really would like to thank Commissioner  
7 Harbour, not just for her thoughtful remarks this  
8 morning, but for her stalwart leadership within the  
9 Commission on privacy matters.   We will miss Commissioner  
10 Harbour, but we know that her departure from the Federal  
11 Trade Commission will not steal her voice on privacy  
12 matters.

13                   I also want to thank our panelists today for  
14 sharing their formidable expertise.   These roundtables  
15 have been greatly enriched by the participation of  
16 panelists like the ones today and we are very grateful  
17 for their participation.

18                   Before we get started today, I'd like to  
19 highlight four themes that have come up time and time  
20 again in the roundtables and end by explaining where  
21 we're going with all of this.   First, we've discussed  
22 extensively the benefits and risks of technology in the  
23 privacy context.   It's hard to believe that the Netscape  
24 browser revolutionized the Internet, opening the way for  
25 commercial uses of it just 15 years ago.

1           Since then, geometric increases in the  
2       computational capacity and data transmission speeds and  
3       cheaper and cheaper storage of data have had huge  
4       implications. These steady innovations have created  
5       benefits to consumers thanks in large measure to the flow  
6       of information that it makes possible. But these  
7       advances have also created new risks for consumers.

8           A few years ago, Tim Berners-Lee cautioned that  
9       IT professionals must keep in mind that -- and now I'm  
10      quoting -- "Data is a precious thing and will last longer  
11      than the systems themselves." Well, when data hangs  
12      around, odds are it will be useful for some purpose that  
13      may not have even been envisioned when the data was  
14      collected, and that presents challenges.

15          In addition, the march of technology has  
16      blurred and indeed threatens to obliterate the  
17      distinction between PII and non-personal information,  
18      especially given the shear volume of information that is  
19      now collected about individuals.

20          Catherine Deneuve, who I've always admired,  
21      once spoke for all of us when she quipped, "I like being  
22      famous when it's convenient for me and completely  
23      anonymous when it is not." On the web, at least, it is  
24      getting harder and harder for individuals to choose  
25      anonymity. And technology has enabled companies to



1 surveil people to an unprecedented degree, both online  
2 and increasingly offline.

3           Second, we have discussed privacy challenges  
4 raised by emerging business models. Business models have  
5 changed as quickly as the technology, creating new  
6 markets overnight. What did consumers know about cloud  
7 computing or even social networking as recently as five  
8 years ago? The continual emergence of these new models,  
9 too, means that consumers are often presented with  
10 unfamiliar or confusing situations where the nature of  
11 the commercial bargain, in terms of privacy, may not be  
12 clear and may be constantly shifting.

13           Not surprisingly, consumers understand little  
14 about how their information is handled, whether by  
15 companies they share with directly or by companies that  
16 work behind the scenes like data brokers, ad networks and  
17 application providers.

18           Third, although new technologies and business  
19 models have raised privacy concerns, they have also been  
20 used to innovate to protect privacy. For example,  
21 several companies have introduced tools that consumers  
22 may use to access the Internet categories they've been  
23 placed in and to change how they've been categorized.  
24 And non-profit thinktanks, the future of privacy forum,  
25 together with marketing communications company WPP has

1 led an effort to develop and test an icon that would  
2 alert consumers how to get more information and how to  
3 make choices about how their information is being used  
4 for behavioral advertising. This is all to the good.

5 Fourth and finally, there's been little  
6 satisfaction with the privacy approaches that have been  
7 pursued to date. Privacy policies are not located where  
8 consumers can find them. They're too complicated,  
9 they're too vague and too long for consumers to really  
10 understand them. While there's widespread agreement that  
11 the information processes we use should be transparent,  
12 we're still exploring effective ways to disclose what  
13 information is being collected and to give consumers a  
14 meaningful opportunity to control its use. And, of  
15 course, we all know that once information has been  
16 shared, there's no way to get the genie back into the  
17 bottle.

18 Although we've covered a lot of ground in the  
19 first two roundtables, we've left some big questions for  
20 today. Our first panel tackles one of the big questions  
21 of the Internet. Can we build security and privacy into  
22 the Internet after the fact? That is, can we create a  
23 secure authenticated structure on top of a foundation  
24 that was built to be trusting and open?

25 Next, we'll tackle health privacy issues,

1 examining another great puzzle. How do we reconcile  
2 individual interest in privacy, particularly about health  
3 issues, with society's interest in getting research,  
4 epidemiologists and others the information they need to  
5 improve our collective health?

6           Then we'll address the question about sensitive  
7 information more broadly. Is there a consensus that  
8 particular categories of information are sensitive and  
9 deserve heightened protection, or is information about  
10 certain kinds of people so sensitive that they should be  
11 treated with special care? For instance, information  
12 about children. Or is sensitivity simply in the eye of  
13 the beholder? Are there policy approaches that would  
14 enable people to apply their preferences themselves  
15 without the need for some kind of consensus?

16           The final panel will wrap up with a discussion  
17 about what we've learned and where we go from here. I  
18 expect we'll hear a lot of the same themes and questions  
19 come up. How do we make information practices  
20 transparent to consumers and how do we give consumers  
21 appropriate tools to make their preferences known? Also,  
22 how do we create incentives for companies to consider  
23 privacy before rolling out new business models or new  
24 service models?

25           Many people have asked me, where do we go from

1 here? Once this roundtable is concluded, what are the  
2 FTC's next steps? Well, I think, to be candid, we're not  
3 certain. The first thing we're going to do is we're  
4 going to sit back and we're going to digest everything  
5 we've heard. We've made detailed records of the first  
6 two panels. We'll do the same with this. We'll need to  
7 go back and study them. We will put together our  
8 thoughts and recommendations, if any, and we will make  
9 those public.

10 We will then solicit your input. We want to be  
11 as open and transparent as we can and we will need your  
12 helps and your thoughts. So, we will have a very public  
13 process on this. We've had great, great assistance as we  
14 go forward. We look forward to more of that in the  
15 future.

16 Before we conclude, I want to say one final  
17 word of thanks this time to the staff that has worked for  
18 months to make these roundtables happen. It's really  
19 hard to explain just how much time and effort goes into  
20 putting these panels together and to doing the research  
21 that is discussed at these panels. No one would have  
22 ever thought that a President from Chicago would shut  
23 down the government because of a little snow. But during  
24 DC's recent "Snowpocalypse," the entire city was shut  
25 down for more than a week. But the roundtable team did

1 not miss a beat. They worked tirelessly through the  
2 storm. We're not like the Postal Service. A little  
3 snow, sleet, rain or four feet of snow is not going to  
4 stop the FTC. They worked throughout that stretch to put  
5 this roundtable together. I greatly appreciate the  
6 dedication and care they've shown throughout in making  
7 these roundtables a success. So, thank you all very much  
8 and thank you for coming.

9 (Applause)

10 MR. OLSEN: Thank you, David. We're going to  
11 take a very brief break. I'll ask the panelists for  
12 panel one to come up and take your seats. We'll start  
13 promptly at 9:15. So, if you want to take a couple of  
14 minutes while Panel 1 gets settled, and then 9:15, we'll  
15 begin. Thank you.

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1           PANEL 1: INTERNET ARCHITECTURE AND PRIVACY

2           MS. GARRISON: Good morning and welcome,  
3 everyone. I'm Loretta Garrison and this is my co-  
4 moderator, Naomi Lefkowitz, and we're going to moderate  
5 the first panel for the final roundtable this morning.

6           We're going to open today's final roundtable by  
7 stepping back and taking a hard look at the architecture  
8 of the Internet. We want to present a challenge to all  
9 of those technical folks in the audience and those of you  
10 who are listening in. And to our distinguished panelists  
11 who have come prepared today with all the answers to the  
12 questions we're going to ask them.

13           The panelists today, we're very delighted to  
14 introduce to you, are John Clippinger, this is to my  
15 immediate left and we're going all the way down the  
16 table. He's the co-director of the Law Lab at Harvard  
17 University Berkman Center for Internet & Society.

18           Next to him is Jules Cohen, director of  
19 Trustworthy Computing for Microsoft.

20           Then Peter Eckersley, who's come all the way in  
21 from California. He's a senior staff technologist with  
22 the Electronic Frontier Foundation.

23           Next to Peter is Ed Felten, who's the director  
24 for the Center for Information Technology Policy at  
25 Princeton University.

1           Next to Ed is Lucy Lynch, director of Trust and  
2 Identity Initiatives from the Internet Society.

3           And then we have Drummond Reed, who's the  
4 executive director from the Information Card Foundation.

5           And last, but definitely not least, Ari  
6 Schwartz, who's the vice president and chief operating  
7 officer for the Center for Democracy and Technology.

8           I'd like to remind audience members that you  
9 can submit questions to the panel by filling out a  
10 question card and handing it to FTC staff that will be  
11 walking around the room. For those of you watching this  
12 panel via the webcast, you can submit your questions by  
13 emailing them to [privacyroundtable](mailto:privacyroundtable), that's all one word,  
14 at [FTC.gov](http://FTC.gov).

15           And to our panelists, if you want to speak at  
16 any time, please turn your name tent on end and wait to  
17 be recognized.

18           As you know, when the Internet was initially  
19 created, it was technically designed to facilitate  
20 communications among a number of researchers at various  
21 universities around the country and what is now known as  
22 DARPA, the Defense Advanced Research Projects Agency.  
23 This was a small, known, trusted environment designed  
24 strictly to share information as the participants worked  
25 on common projects. Since then, we've built on top of

1 that architecture a complex commercial enterprise, a  
2 social networking system, search functionality, none of  
3 which was contemplated or even envisioned at the time of  
4 the original design.

5 The challenge today to our panelists is to  
6 engage in a thought experiment and examine and discuss  
7 how you would construct an Internet today to accommodate  
8 these various enterprises and what change from that  
9 design we can apply to the existing architecture short of  
10 blowing up the Internet.

11 So, Peter, if you can start us off. If you  
12 could start afresh, how would you design the architecture  
13 of the Internet to design all of these activities to  
14 address the privacy and security concerns that we've  
15 heard throughout these roundtable discussions?

16 MR. ECKERSLEY: So, I can't necessarily  
17 give you a single answer to that question, but, you know,  
18 here's the new design, let's just go with this instead of  
19 the current Internet. But I can say that if you want to  
20 understand the privacy problems we're having on the  
21 Internet today, it's helpful to imagine taking a time  
22 machine back to the early '90s and looking at where  
23 today's Internet came from.

24 And what you would find is that there are a lot  
25 of the problems that we're looking at that were



1 essentially side effects or inadvertent design decisions  
2 that were made back in the '90s with the intention of  
3 just making the web work and making it work better. We  
4 could look at TCP/IP, which is the basic protocol that  
5 most Internet software uses to communicate, and it has  
6 this property that the other side can always see the  
7 address that you're using to communicate.

8           And then you can look at the web, which is a  
9 simple client server protocol, and say, so a web server  
10 always sees the addresses of the people who are reading  
11 each document. And these sort of things seem inevitable,  
12 but perhaps they weren't inevitable, because if you look  
13 at the web, at the same time people are also using other  
14 protocols like email even and Usenet, where you couldn't  
15 necessarily see the other person's address whenever they  
16 communicated with you. In fact, back in the '90s, often  
17 there was a separation where some sort of federation of  
18 machines was talking to each other and you never got a  
19 message with the other person's address traveling the  
20 whole way through the chain of communication. And there  
21 were special protocols, like Finger and iDent, that were  
22 used to separate policy with respect to privacy from  
23 policy with respect to communication.

24           And so, I think one way that we could think  
25 about re-architecting the web, if we could do things over

1 -- we can't necessarily do that now easily -- would be to  
2 say, well, does a web server need to see the user's IP  
3 address every time they connect and can we find a  
4 different model for that?

5           There are a bunch of other decisions that were  
6 made later in the '90s the way that cookies and  
7 Javascript and other things were added to web browsers  
8 that also have serious privacy consequences, and I'm sure  
9 other panelists will talk about some of those.

10           MS. GARRISON: John?

11           MR. CLIPPINGER: I think Vint Cerf was asked  
12 that question. He said, if you had a chance to do it  
13 over again, what would you do? And he said, it was  
14 missing an authentication layer. And by that -- and this  
15 is something that we've been very interested in is, okay,  
16 how do you know who you're dealing with and how do you  
17 start to develop -- I think we're going to have to think  
18 about -- I don't think about blowing up and starting new,  
19 but how did you build a new layer or how do you build  
20 something on top that allows you to have a principled way  
21 of knowing who you're dealing with and having -- sort of  
22 creating a kind of consequence for behavior at how people  
23 treat and disclose information?

24           I think what we've been talking about here with  
25 the traditional privacy format has been, how do you

1 sequester information? I think the issue is going to be  
2 how you control it and who has access to it and how do  
3 you enforce certain contracts or conventions of access  
4 through information. You can't sequester it. That point  
5 was made earlier. Personal identifying information can  
6 be constructed from non-identifying information.

7 I think there's a need to create a new kind of  
8 governance regime, a new kind of -- you have to approach  
9 it in a systemic way, not just in a piecemeal way. And  
10 my view is that it's very important -- the locus control  
11 really has to be on the user. You have to have a user-  
12 centric, interoperable system that allows people to  
13 control information about themselves and have a chain of  
14 trust that can be traced back to the individual. It's  
15 not to say that people are going to make all those  
16 decisions, but architecturally, I think that's a critical  
17 consideration.

18 So, going forward, I think we have to think  
19 about not just little piecemeal type fixes, but a very  
20 systemic way of thinking about it that uses a variety of  
21 methods all the way from new kind of encryption  
22 technologies to contracts to what kind of business models  
23 are used, what are the incentives, what kind of  
24 incentives to different companies and players and  
25 identity providers have that are aligned and can take a

1 race to the top rather than a race to the bottom.

2 So, my admonition is that we're moving from a  
3 technology to a social area. And in doing that, we're  
4 making very profound decisions about how people are going  
5 to participate and be protected in our society. So,  
6 we're building new kinds of institutions that have far-  
7 reaching implications.

8 MS. GARRISON: Well, one of the critical  
9 aspects of any redesign is going to be the usability and,  
10 in a sense, the invisibility of the change to the  
11 consumer. We're going to talk a lot about this later on,  
12 but certainly one of the ideas behind looking at the  
13 basic architecture is whether or not something  
14 technically can be built in or designed that would change  
15 the default so that it would make it easier for consumers  
16 to understand what's going on and to make informed  
17 decisions.

18 MR. CLIPPINGER: I couldn't agree more. I  
19 think that one of the things that we're looking at  
20 experimenting with is how people can see their  
21 information being used, who sees whom, who sees what.  
22 And you might have red, yellow, green information and  
23 when green information goes red, what causes that? A  
24 piece of information is somewhere where it shouldn't be.  
25 So, I'm here, what am I doing here? Have audit trails.

1 I think we have to move away from sort of complex,  
2 inscrutable legal agreements to where people can have  
3 an intuitive understanding. The expectation of privacy  
4 has to be reflected in the experience and certain norms  
5 that are adopted and relied upon. And this is new  
6 territory. But you're starting to see some very  
7 interesting designs.

8 But on top of that, I think you have to have  
9 the audit mechanisms. You have to have some kind of  
10 independent party holding others accountable for that.  
11 We'll talk about that later.

12 MS. GARRISON: Okay. Ed, did you have a  
13 comment?

14 MR. FELTEN: Sure. Certainly, it's important to  
15 give users some kind of visibility and control over their  
16 information, where it goes, how it's used, and so on.  
17 But this is much harder to do in practice than you might  
18 expect. Today, users in principle have a certain amount  
19 of control over things like the privacy settings in their  
20 browsers. But, in practice, they really don't. Because  
21 the mechanisms that are used either involve asking the  
22 user millions of questions in pop-up boxes that the users  
23 quickly learn to click away, or some kind of very  
24 detailed browser privacy preferences, dialogue that  
25 hardly any users even open, let alone understand.

1           The real challenge is how to let ordinary users  
2     have effective control and real autonomy in this area  
3     without having to invest a huge amount of effort or learn  
4     a lot about how the technology works. And I think that  
5     requires some -- that's going to require some really  
6     clever advances in the basic models of user interaction  
7     online.

8           I don't think we can add this on with patches.  
9     I think we really need to think how does the user  
10    interact with the technology on a minute-to-minute basis  
11    and we need to build the technology where the user is  
12    revealing to the technology through the things they  
13    already want to do, what they want.

14           MS. GARRISON: Lucy?

15           MS. LYNCH: I want to drop back just a little  
16    to the question about actually re-architecting the  
17    Internet and about whether or not you need to blow it up  
18    to change it. There are two different conversations  
19    going on here. There's a conversation about the  
20    Internet, the entire Internet, the network, that  
21    communicates, and there's a conversation here about the  
22    web, which is most end users' experience and what happens  
23    above that layer.

24           And referencing John's comment, authentication  
25    needs to be built in actually at that network layer.

1 Users aren't the only ones who communicate on the  
2 network. Entities communicate. Machines communicate to  
3 one another. And it's essential that they be able to  
4 continue to communicate and to identify end nodes. The  
5 benefits of the Internet come from the distributed,  
6 decentralized hierarchical model that allows any entity  
7 to communicate with another one. You don't want to break  
8 that.

9           There are technologies being designed, and some  
10 of them are privacy aware like GeoPriv, that are built in  
11 at the network layer and you need always to think in a  
12 distinction, above and below the web, when you're talking  
13 about this. There are privacy concerns below the web, as  
14 well.

15           MS. GARRISON: Drummond?

16           MR. REED: I wanted to find an example of how  
17 you can achieve privacy by design, but also how hard it  
18 is. Again, I'm here as executive director of the  
19 Information Card Foundation. I want to point to  
20 information cards as a technology that has -- is about  
21 six or seven years' worth of work in its development to  
22 try to address, Loretta, exactly what you brought up,  
23 which is the usability of privacy.

24           A good part of what we're doing right now is  
25 educating audiences about if you want to give end users a

1 very easy way to authenticate to websites, to share  
2 information about themselves or from third parties about  
3 themselves, while also at the same time protecting their  
4 privacy, it's a difficult job.

5 I'll give a very specific example. With  
6 information cards, as an authentication technology, it's  
7 a way to sign into websites, the end user experience is  
8 simply one of picking a card out of a wallet. There's no  
9 typing of usernames or passwords. And, yet, the  
10 underlying technology will automatically -- you can pick  
11 one card and use it to sign into a hundred different  
12 websites. The underlying software will give a different  
13 private personal identifier to each of those 100  
14 websites. They will not be able to correlate the  
15 information, the log-in experience. That's because it's  
16 carefully designed to do that.

17 The user doesn't have to understand anything  
18 about that. It's a simpler experience than log-in today.  
19 But the technology has been designed to ensure that no  
20 correlatable identifier is being shared across all those  
21 sites. That's an example of the kind of approach that  
22 you have to take if you're going to address what John  
23 talked about, privacy at this relationship layer that, I  
24 believe, is evolving and that we're going to need to  
25 address this issue.



1 MS. GARRISON: Jules?

2 MR. COHEN: I wanted to echo a couple points  
3 that have been made. It's not just about sort of some of  
4 the privacy questions. I think that it's worth up-  
5 leveling to this interesting question of, with respect to  
6 the hardware that I'm using on the Internet, the software  
7 that runs on top of that hardware and the people that use  
8 these other two things, how do I make trust decisions?  
9 And those trust decisions are broader than privacy.  
10 Should I trust this piece of hardware? Where does it  
11 come from? Should I trust this operation system, this  
12 application? Where do they come from? Who are the people  
13 behind them? And then should I trust the people that are  
14 using them?

15 Sometimes those are privacy decisions about  
16 where the data that flows through the system are and  
17 sometimes it's security decisions. And what tools does  
18 the user have to actually make those trust decisions and  
19 what information do they have on hand and what cues in  
20 the user experience are they provided with are some of  
21 the hard questions that we're grappling with.

22 MS. GARRISON: I wanted to ask all of you about  
23 some of the basic premises on which the Internet was  
24 developed or the web. You have a system of networks,  
25 it's peering, which is -- in a sense, in my mind, it's

1 related to the federal highway system, the super  
2 highways, then you've got the state roads, then you've  
3 got the county roads, then you've got private roads.  
4 Each of these can be built either in an organized way, or  
5 in a private sense if two companies want to share  
6 information, they can simply create that network or that  
7 connection and do it.

8 Does this basic autonomy of the Internet design  
9 actually create barriers or difficulties to addressing --  
10 in a structural way, to addressing the privacy and  
11 security issues that we have? Peter?

12 MR. ECKERSLEY: I want to say no, actually. I  
13 don't think there's a problem with peering and the way  
14 that the Internet is a whole of little networks that are  
15 stitched together in a patchwork quilt. I think that  
16 works pretty well and I think if the protocols that those  
17 networks are talking to each other solve your privacy  
18 problems, at some layer, then that's going to work well.

19 I think the dynamic that is problematic is one  
20 where no one really owns the whole privacy problem. In  
21 the example I told before where the web creates this  
22 privacy problem by showing the reader's address to the  
23 server every time -- and it didn't have to be that way,  
24 email didn't have that property -- that was like a low  
25 level consequence of one protocol and it was a privacy

1 problem that wasn't solved there and the privacy problem  
2 got kind of kicked upstairs. Someone said, hey, we won't  
3 deal with this in HTTP, but if people want to solve this  
4 privacy problem, then they can go and invent a separate  
5 proxy protocol to hide their IP addresses.

6 And the problem is that when you kick these  
7 things upstairs, suddenly only 10 percent or 5 percent or  
8 1 percent or less of people actually get the solution.  
9 So, I think the problem isn't with the way that the  
10 networks are stitched together, it's with making sure  
11 that someone is designing privacy and they're answerable  
12 to the users ultimately when they say, hey, why was I  
13 tracked by this person? You know, you need one kind of  
14 place that you can go to and say, fix this protocol until  
15 I get the privacy properties that I need from it.

16 MS. GARRISON: Ari, I saw you nodding your  
17 head. Did you have a comment?

18 MR. SCHWARTZ: I strongly agree with what Peter  
19 just said. I think there's a tendency to be concerned  
20 with how information is passed back and forth across the  
21 Internet because of the way that some of the original  
22 design went in, and also, because of the way that some  
23 network operators have been talking about discriminating  
24 against certain kinds of content. If we didn't have this  
25 discussion about going in and looking into the content of

1 the packets, then we would have less concern about that  
2 information being passed.

3 If we can build a more secure system that  
4 respects privacy in the protocols itself, then those  
5 concerns are addressed. And it has nothing to do with  
6 the -- you have lots of worry of the discrimination of  
7 packets. As long as we keep that basic end-to-end  
8 principle, we shouldn't have a problem of the structure  
9 of different kinds of entities and different kinds of  
10 peering agreements.

11 MS. GARRISON: John?

12 MR. CLIPPINGER: One caution I would say, I  
13 think one has to look at the emerging business  
14 environment and that where information is going to create  
15 value. So, there are going to be business models based  
16 upon aggregating information and making it available.  
17 It's sort of the next generation of Google. So, there  
18 are going to be very strong forces in the market to test  
19 the limits of those protocols and to reinterpret. And  
20 so, I think it's very important not only to have sort of  
21 the correct business incentives, but have the correct  
22 audit mechanisms because we're really talking at another  
23 level that's never existed before.

24 And recognizing that there's great wealth and  
25 opportunity and things that could happen when you use

1 this information effectively and you can inflict disease  
2 and a whole number of things can be done, so you don't  
3 want to sequester it. But at the same time, you want to  
4 have a set of rules, rules of the road, that are  
5 governance principles that are enforced quickly,  
6 transparently and effectively, and also, grow with the  
7 technology. Otherwise, it will get co-opted.

8 MS. GARRISON: Okay. I want to turn to the IP  
9 address protocol because, as you've discussed, an  
10 addressing system is fundamental to sending data packets  
11 over the Internet. Drummond, are there technical limits  
12 to masking this information to avoid tracking or are  
13 there other ways to address the tracking issue?

14 MR. REED: It's a very complex question.  
15 Another hat that I wear is I'm co-chair of a technical  
16 committee at an Internet standards body called OASIS and  
17 that technical committee is called XRI. It's for a new  
18 type of identifier for the Internet. And an easy way to  
19 explain where that fits is that if the plumbing layer  
20 that we're talking about between the hardware is using IP  
21 addresses to communicate and this next layer of the web  
22 is using URLs, you're connecting between browsers and  
23 servers for pages, the XRIs are designed for this  
24 relationship layer. XRIs are really designed to identify  
25 people, organizations, concepts, and to have

1 communications directly at that layer.

2 Imagine that you can actually have a messaging  
3 relationship where you're not communicating necessarily  
4 between IP addresses or between email addresses, but  
5 person-to-person and the communication is actually able  
6 to route itself to the right device depending am I trying  
7 to send John a short message about I'm five minutes late  
8 for this meeting or am I trying to send Ari a PDF file  
9 for something. It's a matter of being intelligent about  
10 the choice. That kind of communications routing and the  
11 associated rules, for instance, the privacy or security  
12 that can be applied to the message. That's the kind of  
13 thing that that layer can address. It's one approach.

14 I believe there are issues that transition from  
15 IPV 4 to IPV 6 has introduced both new capabilities and  
16 new vulnerabilities at the layer of IP addressing. URLs  
17 have their own set of issues. We're trying to address  
18 some of those at the XRI layer. It's one way that we can  
19 help address those things.

20 MS. GARRISON: Yeah, the IPV 6 issue, we had  
21 discussed among us, and although there had been some  
22 doubt that this would create any issues with IP addresses  
23 being collected and linked to information, there was a  
24 recent article about a company, Clear Site Interactive,  
25 which has acquired something like 100 million IP

1 addresses and of those were actually able to link email  
2 address, postal addresses, names and other registration  
3 information to actual individuals and they're going to  
4 initiate targeting based on that.

5 And, of course, with IPV 6, you're going to  
6 have static IP addresses increasingly assigned to  
7 individual PDAs, so you will have this direct linkage.  
8 This is actually exacerbating the problem of linking all  
9 of these bits of data, this sticky data, to individuals.

10 John or Peter, Drummond, any of you want to  
11 take that up? Drummond?

12 MR. REED: Lucy?

13 MS. GARRISON: Or Lucy, okay.

14 MS. LYNCH: I think there are a number of  
15 problems involved in that convergence that you're talking  
16 about, and it's exacerbated actually by introducing  
17 identity management technologies because there's a set of  
18 passive data that's collected that are the system  
19 identifiers, that give you one profile. But as people  
20 volunteer personal information in conjunction with that  
21 data, that's where that identifiability comes.

22 Because with a few exceptions like who is data,  
23 which is directly tied to the ownership of an IP address,  
24 the way they're building that conjunction is by taking  
25 volunteered data and system data and conjoining them.

1 That is not a problem with the design of the network.  
2 That's a problem with understanding what data you  
3 volunteer and how it gets used in conjunction with the  
4 other data that's available. So, there's a user  
5 education issue there and there's a compliance issue  
6 there. You need to gain consent in order to use that  
7 data --

8 MS. GARRISON: But, Lucy, if you go back to the  
9 earlier point that the IP addresses were not necessarily  
10 intended to be identified, but now they are and now  
11 they're linked, is that also not a structural problem, a  
12 design problem, as well?

13 MS. LYNCH: No.

14 MS. GARRISON: Okay.

15 MS. LYNCH: No. Users want service. You need  
16 to be able to deliver to their end node. Trust me, users  
17 want service. Whether or not they should be exposed  
18 because they get service is not the problem. But you  
19 need that identifier in order to deliver service.

20 MS. GARRISON: Ed?

21 MR. FELTEN: Sure. Talking about IP addresses  
22 as a way of tracking or linking, activity really, I  
23 think, puts the focus on part of the problem around  
24 tracking and linking, which is that there are so many  
25 different technological ways that sites or different



1 parties can track or link what people are doing. If I,  
2 as a user, want to avoid being tracked or linked, I need  
3 to have a strategy for dealing with all of those  
4 different tracking methods.

5 There's a very large perimeter that I have to  
6 defend technologically to maintain my anonymity when I  
7 want to. And if we're going to make progress to give  
8 users more control, we have to reduce the size of that  
9 perimeter, either through technical or other means.

10 MS. GARRISON: Peter?

11 MR. ECKERSLEY: Look, I think that's absolutely  
12 correct. I mean, I was going to make a point just about  
13 IPV 6, which is -- this is an interesting story. If you  
14 compare IPV 6 to IPV 4, we use IPV 4 today, but people  
15 are hoping that one day the Internet will use IPV 6 --

16 MS. LYNCH: I use IPV 6.

17 MR. ECKERSLEY: And a few people do. But  
18 there's a bit of a switching problem because you don't  
19 get much from using IPV 6 until almost everyone uses it.  
20 So, it's this hard bump for the Internet to get over. If  
21 you look at IPV 6, if everyone implemented it naively, it  
22 would be a privacy disaster in the sense that the specs  
23 tend to publish your Mac address in public view to the  
24 whole wide world. So, in fact, there's almost nothing  
25 you can do by default to avoid being instantly identified

1 as soon as you get onto the Internet. And so, that's  
2 kind of a bad thing.

3 But then the number of addresses that you get  
4 from IPV 6 has a much larger space than the mere 4  
5 billion addresses in the current Internet. Those  
6 addresses, perhaps if we shuffled them the right way,  
7 that would actually give us the opportunity to make IP  
8 addresses less trackable because you could give people a  
9 new one every single time they popped onto the network  
10 and then you wouldn't have a problem with tracking by IP  
11 address.

12 Now, some people would say, oh, that's not good  
13 because it means that people can't run their own little  
14 servers on their own machines that have a persistent  
15 address for those and maybe that's a problem that we can  
16 solve by some other intermediate ways. There's a way to  
17 look up an address for a transient server and get the  
18 different shuffled IP address every time it changes. So,  
19 I think there are these consequences that come from these  
20 technical protocols, but Ed's point still stands, that if  
21 we want to talk about privacy, we need to not talk about  
22 just one of these things. We need to deal with this  
23 bewildering mass of different tracking mechanisms all at  
24 once, unfortunately.

25 MS. GARRISON: Jules, I want to turn to you

1 because when we had a discussion before, you said that in  
2 the work you're doing, as you build new applications for  
3 the web, you look at the user experience offline in order  
4 to design for online. But I want to look at the  
5 addressing issue and the sending of information. In a  
6 very over simplistic way, if I mail a letter to you, the  
7 post office delivers it, they don't record that I sent it  
8 to you on a certain date and they don't open it and read  
9 it. So, that's an offline experience. But, certainly,  
10 that's not the case online.

11 Do you have any thoughts about that or want to  
12 talk a little bit about the way in which you are mapping  
13 online -- or offline to online?

14 MR. COHEN: The context in which I think that  
15 it's really helpful to think about the relationship  
16 between the online world and the offline world is more in  
17 the identity management space. I'd be happy to talk a  
18 little bit about that now.

19 So, just for a little bit of context, I think  
20 we've figured out a lot of the identity management  
21 problems in the offline world reasonably well. We have  
22 methods that have grown up over generations, decades to  
23 figure out in a particular context if you want to prove  
24 who you are at a given level of assurance, you can do so.  
25 You carry around a wallet, as Drummond said. It has

1 maybe a driver's license, maybe a student ID, ATM card, a  
2 Starbucks card, corporate ID, and they all provide  
3 different information about yourself and about who you  
4 are in the real world.

5           And depending on the context, you might choose,  
6 oh, I'm going to show my driver's license because I'm at  
7 TSA; oh, I'm going to show my student ID because I want a  
8 discount at a museum; oh, I want to use my ATM card to  
9 get cash; oh, I want to use my corporate ID because I  
10 want to opt in to some kind of a service. And they're  
11 all used in different ways to access different services  
12 in the real world. And that model works pretty well.

13           But on the Internet, as John was saying, we  
14 don't have that functioning interoperable identity layer.  
15 It doesn't exist. And as a result, we have what's  
16 essentially a rather Kluge (phonetic) method of using  
17 usernames and passwords and shared secrets. I think we  
18 all know sort of the challenges with those, with phishing  
19 and with identity theft and the like.

20           When the thing that you use to prove your  
21 identity is something that anybody can type in on any  
22 computer anywhere in the world, to access the kinds of  
23 rich information we've been talking about, and not just  
24 the kinds of information that have been discussed here,  
25 but also bank account information, health care

1 information, life and death information, the really,  
2 really hard stuff, there's a challenge there.

3           So, one of the questions is we know we have  
4 this working interoperable model that works at a  
5 reasonably high level of fidelity in the offline world  
6 and provides reasonably good privacy protections in a  
7 bunch of contexts. How do we take what we have in the  
8 real world and move it over into the online world? And  
9 one of the things I think that you figure is that in the  
10 offline world, in the real world, there are moments when  
11 trust is created. When I go to the DMV and show my  
12 utility bill and my Social Security card and related,  
13 there's this trust that's created over the counter there  
14 with a human. There's an in-person proofing moment.  
15 At that point in time, that trust is bound into a plastic  
16 card and they hand it to me and then I can go reuse that  
17 trust offline to get services.

18           The same thing happens when I register for  
19 school; the same thing happens when I become an employee;  
20 the same thing happens in a bunch of contexts. In those  
21 contexts, there is a relatively high bar that I cross  
22 offline and trust is created.

23           And one of the challenges that we have online  
24 is that there are no similar in-person proofing  
25 experiences. It's pretty hard to get that level of trust

1 to be created online because you don't have a human  
2 making a trust decision at the outset. So, one of the  
3 things I think we need to do, and we can talk about this  
4 more over the course of the panel, is figure out ways to  
5 reuse pieces of trust that exist offline in online  
6 contexts at a reasonably high level of security and  
7 figure out ways to use those to make good privacy  
8 decisions about what happens with the subsequent data.

9 MS. GARRISON: Ari?

10 MR. SCHWARTZ: Let Ed go first because he's  
11 going to make one of the two points I was going to make,  
12 but he's willing to empty out his wallet to do it, which  
13 I was not.

14 MS. GARRISON: Okay. Ed?

15 MR. FELTEN: Thanks. So, I think we need to be  
16 careful about the analogy to the real world plastic  
17 cards. Here are the plastic cards that were in my wallet  
18 right now. All of these people know who I am, they know  
19 my name and address, and they could trivially link back  
20 to my identity and link their records together. There's  
21 a library card, frequent flyer, my work ID, credit cards,  
22 driver's license. All these people know who I am. They  
23 can link my activities together. So, I don't have great  
24 privacy protection there, at least as a technical matter.

25 MR. SCHWARTZ: My point was exactly the same

1 one, which is I think we can do it better online than we  
2 do it offline. And we should -- that should be the goal.  
3 The goal shouldn't be to do it exactly the way we do it  
4 online. I think we can learn from the way that we do it  
5 offline to help to try and figure out kind of a process  
6 to go about doing identity online. But the goal should  
7 be, as Drummond was saying before, how can we de-link  
8 information to solve the problem that Ed was talking  
9 about? How do we build transparency enough that people  
10 can see what information is held about them and make  
11 changes to it if it's wrong and if it's something that's  
12 used to make decisions about them in the ordinary course  
13 of business? Those are things that you can do online  
14 that you can't do with systems that were designed in the  
15 world of file cabinets.

16 MS. GARRISON: Before we migrate clearly into  
17 identity management issues, can we wrap up with just a  
18 couple of issues related to -- going back to the  
19 architecture and whether there are some structural  
20 changes, whether they're big changes. I haven't heard  
21 any big changes, but maybe there's some small ones that  
22 we can consider, which still would be important.

23 Peter, you've talked about some which you call  
24 low-hanging fruit.

25 MR. ECKERSLEY: Absolutely. So, I think maybe

1 this is a terrible analogy, but if we're going to talk  
2 about low-hanging fruit, perhaps privacy is like we're  
3 trying to make a fruit salad and in order to be a tasty  
4 fruit salad, it's got to have everything.

5           There is low-hanging fruit. And one point I  
6 really want to emphasize is Commissioner Harbour's call  
7 for SSL encryption. I think that's a tremendous idea.  
8 It's really low-hanging fruit. It's a protocol that we  
9 have that's already developed, it's already widely in  
10 use. And, in fact, it actually addresses the question  
11 you were asking just before about, well, the post office  
12 doesn't open our mail. Using SSL prevents the network  
13 from opening your mail and it's a great idea. It  
14 protects against hacking. It protects against all sorts  
15 of privacy problems. Not all of them, but it's low-  
16 hanging fruit, let's get it and let's put it in our fruit  
17 salad.

18           There are harder things that I think we should  
19 try to do. Ed mentioned before the fact that browser  
20 user controls -- currently, you need to be an expert,  
21 frankly, in order to -- and very patient. Both an expert  
22 and very patient in order to get anywhere with the  
23 browser privacy controls.

24           A question I wanted to ask him was, could we do  
25 better with blacklists, with something like the Adblock



1 Plus model where you have a list of the bad things that  
2 you need to block? And that's socially constructed.  
3 It's an institution. We could crowd source it. We could  
4 have everyone sitting down and studying the web and  
5 saying, wait, here's a new tracking company that has no  
6 relationship with the people they're tracking, let's just  
7 block them. Could we do that? Would that be a feasible  
8 model? So, that's a harder fruit to get, but maybe we  
9 could get it.

10 And then maybe there are other really important  
11 ingredients that tie into the next subject we're going to  
12 talk about. And this is a question for all the identity  
13 management people. Can we get anywhere with identity  
14 management systems that give you throw away identities  
15 that are nonetheless trustworthy? I know that the  
16 cryptography is there. There are these fancy protocols  
17 called zero knowledge proofs that, in principle, allow  
18 you to be -- to show up at a website and say, hey, I'm  
19 not going to say who I am, but I can prove that I'm a  
20 person in good standing. Is this a solved problem? Are  
21 we close to solving this problem? It's not exactly my  
22 field, so, actually, I'd love to know the answer.

23 MS. GARRISON: Okay. For John, we have a  
24 question for you from the audience. You said earlier in  
25 our conversation that we're starting to see interesting

1 designs for giving consumers more control over their data  
2 flows. Can you briefly describe some of those?

3 MR. CLIPPINGER: Actually, this builds on an  
4 earlier point. With the notion of iCards, I mean, we  
5 were involved in developing something called Project  
6 Higgins and the analogy was to having different kinds of  
7 cards. But the difference is -- and I think we can do it  
8 better in the online world -- is that only the end user,  
9 the person knows that can link them and you can have a  
10 different card generate an identifier -- a femoral  
11 identifier.

12 I think we're going to move to a point where  
13 you're going to have authenticated anonymity and you need  
14 to separate -- this is my view -- separate out sort of  
15 the physical person from the virtual authenticated  
16 person. Because the real consequential damages are done  
17 to the individual and it has life consequences when the  
18 abuses happen. They take your DNA information.

19 But you also have a social contract in the  
20 sense that information is jointly created about you, you  
21 have medical treatment, you get FICO scores, things like  
22 that. So you can't disassociate. But there may be  
23 mechanisms that allow us to have the cake and eat it,  
24 too. And I think this is new ground. There's new  
25 thinking on this.

1           The zero knowledge proofs, I find fascinating  
2           and very promising. We had worked with Microsoft and a  
3           company called Credentica that they acquired and that  
4           technology is coming on board that I think can have an  
5           amazing impact.

6           MS. GARRISON: Ed?

7           MR. ECKERSLEY: This idea of authenticated  
8           anonymity is actually something that today's password  
9           system gives us, when it works, when we have secure  
10          passwords and so on. That is, I can set up a user  
11          account and password on one site, a different user  
12          account, different password on another site, and they're  
13          inherently unlinkable if I choose those well.

14          But the problem is that there are so many other  
15          ways that those sites can link together, the fact that,  
16          yes, this really is the same person. And once they have  
17          connected those dots, it doesn't matter how I  
18          authenticate myself to the site. Again, there's this  
19          perimeter you have to defend. Because if the link is  
20          made ever between my activities on the two sites, then  
21          there's no undoing that.

22          MS. GARRISON: Jules?

23          MR. COHEN: I just wanted to make a comment  
24          about the zero knowledge -- I'll make two comments. One  
25          is that we're on the cusp of a very sort of broad and

1 deep conversation on identity management, and we could do  
2 it right and we could do it in a way that doesn't  
3 exacerbate all the kinds of problems we're talking about.  
4 And the zero knowledge proofs are a way to do that to  
5 allow unlinkability -- to allow a number of properties,  
6 unlinkability, untraceability, a number of properties  
7 that can improve the situation, and at the very least,  
8 don't make it worse. But it certainly doesn't address  
9 the plumbing layer issues.

10 I would just note that we released last -- a  
11 couple weeks ago at RSA, we released the foundational  
12 pieces of the zero knowledge technology. It's called  
13 UProof, under the open specification promise. So,  
14 developers can go build on top of that freely, and we're  
15 hoping to see a significant uptake of the use of that  
16 technology.

17 MS. GARRISON: Okay. Drummond?

18 MR. REED: Before we leave the technology  
19 layer, I want to build on what Jules just said. If folks  
20 are not clear when this term is used, zero knowledge  
21 proof technology, I want to make it very clear. Imagine  
22 you have an information card that is able to prove --  
23 that actually has your birth date on it, okay? If you  
24 share that information with a site, it actually doesn't  
25 take much more than your birth date and maybe your zip

1 code, one or two other pieces, even if you're not sharing  
2 a linkable identifier, they're able to correlate you or  
3 they're going to be able to link you. And this is just  
4 one example of the many ways that can be done.

5           With zero knowledge proof technology, that  
6 information can be there and when it's shared with a  
7 site, technologically, the site can prove that you are  
8 over a certain age but not get your birth date, okay?  
9 And it is a significant step forward. It's been widely  
10 vetted. Microsoft's acquisition of Credentica and now  
11 their release of UProof at RSA, I think, is a major step  
12 forward. Information cards were designed to carry any  
13 type of token, including these new UProof tokens. So,  
14 this is something we hope to see coming into use fairly  
15 quickly now. It's been theoretical for quite a while,  
16 but now it's a real thing and what it could mean for  
17 privacy or authenticated anonymity, as John puts it is, I  
18 think, significant.

19           I want to say one other thing on the technology  
20 layer before we move up. The other thing that I think is  
21 happening -- and I'm putting on another hat, which is the  
22 XDI technical committee at OASIS. XDI has a protocol  
23 based on XRIs and one of the key things it does is bind  
24 data and policy. It is a way of whenever you share  
25 information, if you're able, on the part of the person

1 sharing the information, to say this is the policy bound  
2 with it, this is the terms under which I'm sharing the  
3 data. In XDI, we call that -- it's the concept of a link  
4 contract. If you're able to do that, it introduces a new  
5 paradigm for how that information, that data and its use  
6 can be respected throughout that life cycle, throughout  
7 that chain of trust, as John was talking about it.

8           Now, actually observing those policies is not  
9 something necessarily technology can enforce, but doing  
10 the binding and having a cryptographic way that that  
11 binding can be observed is something that technology can  
12 do. So, it's sort of how the two pieces can work  
13 together.

14           MS. GARRISON: Well, we want to talk a little  
15 bit more about the technology and policy together and  
16 also bring in enforcement. We'll do that after we do  
17 more discussion on identity management.

18           But there's a question that's also come from  
19 the audience. Peter, I think this is to you. Isn't the  
20 focus on SSL and the allegedly new problem of in the  
21 clear traffic to the cloud really an old problem? How is  
22 this any different from truly ancient email transport  
23 protocols like SMTP or POP that involve similarly  
24 unencrypted traffic?

25           MS. ECKERSLEY: It's true that we've had a long

1 struggle to move from a plain text Internet where we all  
2 use Telnet and unencrypted SMTP and POP to an encrypted  
3 Internet where, unfortunately, as the network grew, it  
4 just became less true that you could trust the network  
5 never to listen to your usernames and passwords or the  
6 content of your communications and do things that you  
7 didn't want done with those communications. So, all of  
8 those examples of protocols are protocols that we're  
9 trying to encrypt.

10 SMTP, you know, ideally should go over SSL.  
11 POP definitely goes over SSL these days really. And if  
12 you're not sending it over SSL, you're doing something  
13 wrong. So, I think the same lesson applies to the web.  
14 We've got the SSL protocol. It has its flaws. Those are  
15 fixable, I think. But it will take some work to get rid  
16 of the flaws. And, right now, flawed SSL is a million  
17 times better than a plain text Internet.

18 MS. SCHWARTZ: I want to know one thing. On  
19 Commissioner Harbour's list this morning, when she was  
20 talking about the email providers, she didn't mention  
21 Gmail. And that's because after the China incident,  
22 Gmail switched over to use SSL by default. All Gmail  
23 connections.

24 MR. ECKERSLEY: Yes, many, many congratulations  
25 to Google for doing that. They showed that it was -- I

1 mean, there was an argument until Google did it that it  
2 was too expensive for a huge cloud provider to encrypt  
3 everyone's email communications. And Google has  
4 demonstrated, actually, it's not that expensive anymore.  
5 Computers have gotten fast enough that we can encrypt  
6 everyone's email and still have it as a free service.

7 MS. LEFKOWITZ: So, one question, and sort of,  
8 you know, if you look at the -- even at the postal mail,  
9 if the post office sees white powder leaking out of an  
10 envelope, they're going to open it, right, and then  
11 they'll do everything they can to try to track it down.  
12 So, is there some role for law enforcement in tracking of  
13 data and is there some way to make those two compatible?

14 MR. ECKERSLEY: I would love to be able to say  
15 that just by turning on SSL law enforcement is completely  
16 disempowered and needs to go and get lots of warrants in  
17 order to access things. Realistically, that email is  
18 still stored on the cloud provider's servers and,  
19 frankly, you know, a lot of the time I think it would be  
20 not that hard for law enforcement to find a due process  
21 way to access email.

22 The people who are really being locked out here  
23 are authoritarian regimes that don't have a legal process  
24 way to access that cloud provider. I think Iran was very  
25 unhappy about Gmail turning on encryption because it



1       meant they couldn't eavesdrop on their citizens anymore,  
2       because the Iranian government couldn't go to Google and  
3       use legal process to obtain that email.

4               MS. LEFKOWITZ:   Okay.   Well, let's move up a  
5       layer.   Let's talk about browser controls.   So, are there  
6       any technical changes that could be developed or  
7       implemented to address some of the privacy issues that  
8       we're talking about and how easy or difficult would they  
9       be to implement and how usable are they for consumers?

10              Ed, do you want to start us off?

11              MS. FELTEN:   Sure.   This is an area where I  
12       think all the major browser vendors are trying to find  
13       ways to innovate, to give better technical controls, to  
14       give users more effective control over when they can be  
15       tracked and linked and what information gets provided.

16              Historically, browsers have just promiscuously  
17       provided all kinds of information about the user,  
18       information which Peter and some of his colleagues and  
19       others have shown is often sufficient to uniquely  
20       identify a user.   And that doesn't have to happen.   It's  
21       not technically necessary, but it's a matter of really  
22       careful engineering in designing the browser to make sure  
23       that you're not inadvertently giving information that's  
24       useful.   It's a matter of thinking about what information  
25       really needs to be released ever.   It's also important to

1 give users more control over what information gets  
2 released and to which sites.

3           There needs to be a lot of change, I think,  
4 inside the plumbing of the browser and then, to the  
5 extent you're giving users control and choices, you need  
6 to think really hard about how to present those choices  
7 to them in a way that's better than we've historically  
8 presented privacy choices to users.

9           MS. LEFKOWITZ: Is there any work going on in  
10 that?

11           MR. FELTEN: Well, there's a lot. I mentioned  
12 the browser vendors. There's work that we're doing in  
13 our lab at Princeton, as well, to try to look at browser  
14 architecture and try to figure out how to let users  
15 compartment the information that's given to different  
16 sites and give users control over when sites can connect,  
17 what they do on one site to what they do in another. And  
18 that means engineering the browser so that it keeps track  
19 of where information came from and so that it's careful  
20 about which information is given to whom. And that's an  
21 issue that we're working on and also some folks involved  
22 with browser vendors, as well.

23           So, I'm hopeful that we'll make progress in  
24 this area. But it's a constant arm's race, if you will,  
25 between people who are trying to find new ways to track

1 and identify users and those of us who are trying to  
2 establish technological control over those. That  
3 perimeter that I talked about before seems to be getting  
4 larger and there are people out there who are working to  
5 make it larger.

6 MS. LEFKOWITZ: Okay, anybody else?

7 MS. LYNCH: There's a little bit of an elephant  
8 in the room here which is the user experience is user  
9 driven. And in many cases, the user will do what is  
10 convenient and what delivers to them the experience that  
11 they've learned to expect. So, in many of the cases that  
12 we're talking about, we're talking about the user making  
13 an intervention, the user making a decision, the user  
14 making a choice. And in many cases, people will make  
15 that choice once. So, it's good to get the defaults  
16 right.

17 In some cases, people are willing to make that  
18 choice for a trigger event that they have to be notified  
19 about. So, getting that balance right -- because, in  
20 many cases, the browsers are promiscuously sharing  
21 information so that your experience is a positive one.  
22 You get the right plug-ins, you get the right whatever  
23 without the user having to actively manage their sessions  
24 all the time. And getting that balance right is one of  
25 the big difficulties here.

1 MR. FELTEN: If I could just jump in briefly.

2 MS. LEFKOWITZ: Sure, go ahead.

3 MR. FELTEN: What Lucy said is absolutely  
4 right, that -- and this is one of the reasons this  
5 problem is really hard. You need to give users the  
6 experience, the benefits that they want from using the  
7 net, and you need to do it in a way that is realistic  
8 about how much decision-making they want to do and --

9 MS. LYNCH: And how often.

10 MR. FELTEN: -- how well equipped users are to  
11 actually make those decisions. It would be easy if we  
12 didn't have these problems to deal with.

13 MR. ECKERSLEY: So, I kind of made a point  
14 about this before, but I want to try to make it more  
15 clearly. This problem of having too many choices that  
16 are crucial -- essentially, you can imagine the innards  
17 of these browser settings as being a gigantic switch box  
18 which like allow this site to send this bit of  
19 information to this other place, allow this thing over  
20 here to talk to that. And then, as Ed pointed out, you  
21 only need to get this wrong once. You only need to allow  
22 Facebook and Amazon to link your accounts together once  
23 and, suddenly, forever, even if you chose a different  
24 username and tried to keep those things separate, they're  
25 now associated in those firms' databases.

1           So, the question is, okay, can we realistically  
2     expect human beings to be in there, in their switch box  
3     in their browser saying, yes, this site can talk to this  
4     one; no, this one can't? I think the answer is no,  
5     especially if we have any notion of what reasonable  
6     usability looks like.

7           So, the idea that I was talking about before  
8     when I talk about crowd sourcing these things is saying,  
9     well, for a lot of us, the answers to these switch box  
10    questions will be the same. It's going to be a  
11    complicated pattern of yeses and nos about which things  
12    you want to allow to talk to which other ones. But let's  
13    try to solve this problem collectively. Let's all get  
14    together in some technical process and say, okay, let's  
15    try to answer the switch box questions. And I don't know  
16    if this approach will work, but I think it's the best one  
17    we've got to try at the moment.

18           MS. LEFKOWITZ: I'm a very practical person.  
19     So, how does that work? I mean, who is going to sort of  
20     start the crowd sourcing?

21           MR. ECKERSLEY: Well, the precedent that exists  
22     right now is this plug-in Adblock Plus and some other  
23     similar ones where the model is fairly simple. It's a  
24     list of things that your browser isn't allowed to load.  
25     Some of those things are scripts, some of them are

1 images, maybe the one-by-one transparent JIFs that are  
2 solely there to track you, to make your browser go and  
3 fetch this tiny, invisible image from a web server just  
4 so that a server can see where you are coming from to  
5 fetch that image. And people try to compile lists of  
6 these things and say whenever your browser encounters a  
7 reference to one of these objects, just don't fetch it.  
8 So, that's a reasonable first approximation.

9 Now, the way -- most of the way that Adblock  
10 Plus does this is by getting human beings to compile  
11 lists and usually they target advertising rather than  
12 tracking. But I think the same model is equally  
13 applicable to the tracking stuff, which is probably of  
14 more policy concern. And then the question is, can we  
15 compile a good enough list that's long enough and  
16 comprehensive enough and has enough people looking at it  
17 and working on it that it gives people a solid percentage  
18 level of protection.

19 MS. LEFKOWITZ: I was going to let Drummond and  
20 then John.

21 MR. REED: I was just, once again, going to  
22 make this point about the difficulty of privacy by  
23 design. So, I think we all know that as egregious as  
24 cookies can be for tracking, if we put the choice in  
25 front of the majority of consumers today, you can stop

1     that problem, just turn off cookies, how many would do  
2     it? Even if you make it one big red button right in  
3     front of them, their web experience would suffer to the  
4     point that, you know, a tiny fraction would take that  
5     choice.

6             So, if we're going to solve that problem, I  
7     would submit there has to be a more overarching solution  
8     to doing it. And Peter's got a good point in talking  
9     about -- technologically, there are some ways that I  
10    would say are actually reflections in policy.

11            Another structural way that I think we'll talk  
12    about as we get through identity management is this  
13    emerging paradigm of trust frameworks. And I would  
14    submit they are going to be a powerful tool for being  
15    able to approach that.

16            MS. LEFKOWITZ: John?

17            MR. CLIPPINGER: I was at a conference, South  
18    by Southwest, and Dana Boyd, who is an ethnographer of  
19    sort of the web and web behavior, gave a very excellent  
20    talk on privacy. And I think she came up with a very  
21    different perspective in how to look at -- rather than  
22    doing toggles and choices and attentions. She was  
23    talking about different kinds of publics and expectations  
24    that people have in different kinds of publics, and  
25    things that are behavioral and what you call articulated.

1 And people are very good at social signals. I mean, the  
2 bigger part of our brain is dedicated to sort of  
3 interpreting complex social signals.

4 The question is, are those signals there in the  
5 environment that people can build upon, intuitively build  
6 upon, and they're constantly building new norms and  
7 inventing ways in which they create their own little  
8 publics. So, I do not think it's going to be -- I think  
9 we're just on the edge of understanding this. So, I  
10 don't think it's going to be a complex of toggles and  
11 switches. Yes, you have to have some kind of fundamental  
12 understanding, but I think that you're going to have to  
13 build on the sort of dynamic intuitions that people have  
14 and rely upon sort of cohort norms that people have. And  
15 you have to have some enforcement, you have to have some  
16 consequence or violation for bad actors.

17 I mean, there's so much work now that's being  
18 done in behavioral economics and trust and how it works  
19 and how implicit trust mechanisms are created and  
20 enforced and how people develop contracts and conventions  
21 among themselves in an emergent way that I think this is  
22 going to require a different way of thinking about it.  
23 And I think to prematurely rely upon techniques that have  
24 not worked in the past projected into the future will not  
25 be particularly beneficial.



1           MS. LEFKOWITZ: One final point, Ari, before we  
2     turn to --

3           MR. SCHWARTZ: Yeah, I just wanted to push back  
4     a little bit on what Drummond was saying about that  
5     privacy by design is hard. I do think privacy by design  
6     is hard if you haven't thought about it in the protocol  
7     at the beginning. And cookies is the perfect example of  
8     that, right? I mean, there was basically no thought to  
9     privacy when cookies were created and now we have to deal  
10    with the consequence of that and create this whole  
11    complicated set of controls around it and rules about how  
12    they're used, et cetera. If we had tried to build user  
13    controls in the beginning, it would have been much easier  
14    than what we have today.

15           So, I think there's generally a viewpoint among  
16    some technologies, particularly among companies, that  
17    says, we'll put the technology out there and we'll figure  
18    out some of -- we'll do rapid prototyping and figure out  
19    how to address those privacy and security problems down  
20    the road. It turns out that privacy and security, in  
21    particular, are much more difficult to build in after the  
22    thing's been created. If we had thought about it in the  
23    beginning, we could have addressed it much more easily.

24           MS. LEFKOWITZ: So, we've been already talking  
25    a little bit about identity management, but let's jump in

1 a little further because we've already heard that many  
2 people have said that the Internet doesn't have an  
3 authentication layer built in. So, often, people talk  
4 about identity management as a means of solving that  
5 problem. But let's make sure we're all on the same page.

6 Lucy, do you want to give us a little nutshell  
7 of what identity management means and what do people mean  
8 when they talk about federated identity management?

9 MS. LYNCH: Well, I think the first thing to  
10 recognize is that people are generally talking about that  
11 experience at a very high level in the network. They're  
12 actually talking, in general, about a web experience,  
13 although there is some work going on in federation below  
14 the web for services like data sharing. But, in general,  
15 they're talking about the end user facing experience and  
16 a relationship between a service provider and end user  
17 and somebody who is your trusted relay among those  
18 relationships.

19 If you think of privacy as not secrecy, but as  
20 information sharing with consent in a context, federated  
21 identity is really about allowing the user to select the  
22 pieces of information that you need to share to  
23 accomplish the service through a proxy so that only those  
24 details are shared. But it means that the user needs to  
25 move trust from themselves to the proxy. Or they need to

1 be very active in acting as their own proxy with these  
2 zero proof tokens.

3 And that, in a nutshell, is really what you're  
4 talking about, is empowering both the user and the  
5 service provider to have a successful transaction without  
6 having to do a high degree of information sharing.

7 MS. LEFKOWITZ: So, what will we get if we  
8 could build a good identity management system? What's it  
9 going to do for us online and what won't it do and will  
10 it even necessarily increase privacy?

11 Jules, do you want to start us off?

12 MR. COHEN: Thanks. This is another question  
13 where I think it's helpful to look back to the real  
14 world. You know, in the real world, we have this way of  
15 proving our identity in various situations, and when you  
16 ask, what will we get online, I think we'll get the same  
17 kinds of benefits online if done correctly that we get in  
18 the real world. We'll have the ability to demonstrate  
19 who we are to a service provider. The service provider  
20 can make a trust decision about us, be that Microsoft or  
21 be that the Federal government or the State government or  
22 whomever, whoever you're getting the service from. If  
23 the token that you pass is the correct level of assurance  
24 and they deem it trustworthy, you get a service back.

25 I want to just follow up on what Ari said with

1     respect to how we can potentially do it better online  
2     with an example.  So, in the real world, if I walk in to  
3     a museum and I want to prove that I am a student at an  
4     accredited university, I pull out my student ID, and they  
5     can see my name, they can see the name of the university,  
6     they can probably see my -- you know, when it expires and  
7     when I graduate, and some other pieces of information.  
8     But really they need a far smaller amount of information  
9     to determine whether or not I'm actually a student.  They  
10    just really need something that says, bearer is a  
11    student.  It doesn't matter whether I go to Harvard or  
12    Princeton or some other school.  Those pieces of  
13    information aren't necessary.

14            On the Internet, we can do that kind of  
15    redaction.  We can share a token with somebody -- a user  
16    can choose to share a token that says, I am a student,  
17    redact the pieces of information that are unnecessary,  
18    and the relying party, the service operator, can make a  
19    trust decision based on that.

20            The same example we talked about it a couple  
21    times, when you go into a bar and order a drink in this  
22    country, they want to know, is it a valid ID, are you  
23    over the age of 21, and that's about it.  Does the  
24    picture match?  They get a lot more information.  And in  
25    the real world, it's really difficult to stick your thumb

1 over all those extra fields and redact them. But on the  
2 Internet, that kind of redaction is possible.

3 So what can we get out of identity management?  
4 We can get those same kinds of trust moments that we get  
5 in the real world, but we can get them with a higher  
6 level of privacy through redaction and through the kind  
7 of unlinkability that's possible that prevents the  
8 concern about linking all those cards in Ed's wallet.

9 MR. SCHWARTZ: I think one important thing to  
10 note is that in this space, privacy and security are very  
11 much aligned. One of the problems that we have with  
12 security online is that too many people have information  
13 that they shouldn't have. So, that's both a security  
14 problem and a privacy problem. If we can get the right  
15 people the right information at the right time to  
16 authenticate, to use services, et cetera, that will help  
17 both privacy and security. But that means looking at the  
18 whole environment of the Internet.

19 And most companies, I think, are going to be  
20 somewhat -- are going to push back. I'm skeptical that  
21 companies -- what's called the relying party in a lot of  
22 these trust frameworks, that the companies are going to  
23 be enthusiastic about the idea of getting less  
24 information even though it means that the whole system is  
25 more secure.

1 MS. LEFKOWITZ: Ed, and then we can go down the  
2 line.

3 MR. FELTEN: I want to amplify that. I think  
4 it would be nice. I, as a consumer, I guess would like  
5 to live in a world where sites only ask for the  
6 information they needed to provide a service. But that's  
7 not the common practice today.

8 If I want to get an account in NewYorkTimes.  
9 com, for example, to read the newspaper, they ask for my  
10 gender, they ask for my year of birth, my zip code, my  
11 job title. And, of course, I could lie. But they do ask  
12 for that information. And it's obvious why they're  
13 asking me for it. It's not to provide the service. They  
14 don't need to know my gender to provide the service  
15 better. You know, it's a transaction that they offer to  
16 me. They're up-front about what they're doing. So, I  
17 don't think they're cheating me. But, nonetheless, the  
18 business practice is that sites ask for more information  
19 than they need to provide the service and that people  
20 give it.

21 So, you can have a better authentication  
22 mechanism for logging into that site, but still,  
23 ultimately, they will ask me for the information as a  
24 condition of using the site.

25 MS. LEFKOWITZ: John?

1           MR. CLIPPINGER: I'd like to challenge that a  
2 little bit because this is something that we worked with  
3 and talked to a number of companies about and, I mean,  
4 major financial services companies, large retailers, a  
5 variety of parties. Because the assumption would that be  
6 they can get as much information about you as they want;  
7 they're going to do that. And so, we had a working  
8 group, we brought a number of these people in. I was  
9 very surprised in the sense that they -- a lot of them do  
10 not want to have the liability of having the personal  
11 identifying information and they would like to have a  
12 trusted relationship where you would give them a lot of  
13 information that, in fact, they could really know what  
14 your preferences were.

15           And so, if there was a vehicle, a means by  
16 which they could get the information they really need.  
17 They don't have to know exactly where I live. They don't  
18 have to know the -- in many cases, the physical me. They  
19 maybe have what I would call a virtual me that has  
20 certain sets of attributes that are very valuable to  
21 them, that I'll carry on transactions, and have a sort of  
22 social contract or an economic contract around that  
23 that's enforceable. I think it plays both ways. I think  
24 there will be a change -- and I was very surprised to see  
25 that there is this shift that's taking place. Some

1 people call it the big flip. But I think you'll see  
2 that.

3 MS. LEFKOWITZ: I have a hard enough time  
4 negotiating with my phone company to get a better rate.  
5 So, I mean, that sounds good, but how is that going to  
6 work on an individual basis? People are going to trade  
7 more attributes for something, better discounts? I mean,  
8 are they really going to do that?

9 MR. CLIPPINGER: This is exactly what I alluded  
10 to earlier. Because as information starts to become  
11 valuable, then you get into this asymmetry of the  
12 bargaining position, and then there has to be a  
13 regulatory governance framework. But I think the  
14 enlightened party, what they want to do is have a trusted  
15 relationship with an aggregate of their customer base,  
16 that they get the information they need in order to  
17 produce a better product. And if there's the attempt of  
18 a provider, a service provider, to coerce or trick and  
19 trap, and this is what I fear, then I think you're going  
20 to move into a very adverse environment.

21 There doesn't necessarily have to be that  
22 incentive. I think they can have a better business  
23 opportunity by not doing that. And I think the trusted  
24 exchange is going to be key to building a brand.

25 MS. LEFKOWITZ: Did you want to answer that,



1 Drummond, or did you want to talk about trust frameworks?

2 MR. REED: Both.

3 MS. LEFKOWITZ: Okay, go ahead.

4 MR. REED: Well, first, I want to agree with  
5 John here. One of the reasons I am such an advocate of  
6 trust frameworks is I think that the building of identity  
7 management is just a first piece of this relationship  
8 layer that we're talk about. And in some ways, it's one  
9 half of the coin and one side of the coin, and trust  
10 frameworks are emerging now as the other half of the  
11 coin.

12 And the power is, I believe, to what Ari -- a  
13 very good point, which is how can you actually align the  
14 consumers' incentives for privacy and protection of their  
15 information and the businesses' incentives to get the  
16 information they need to best deliver the service.  
17 Really that's what both of them are incented to do. Can  
18 we align that with protection of the consumers' privacy  
19 and security? The optimist in me says that trust  
20 frameworks are a means to do that.

21 Now, let me make it clear what we're talking  
22 about when we're talking about a trust framework. As  
23 Lucy was explaining, the concept of identity management  
24 as we're talking about it on an Internet scale is that  
25 from a consumer's perspective, you're able to use --

1 identify as a service. You're using a specialized  
2 service provider to encapsulate this. I don't need a  
3 service provider to go up and show credentials from my  
4 wallet in a physical store or in a bar or something like  
5 that. But on the Internet, I'm not physically there. I  
6 can, with technology like information cards, put this  
7 service right here locally on my machine, on my laptop or  
8 on my iPhone.

9 But immediately you'll start to see one  
10 problem, which is, well, if it's tied to that physical  
11 machine, what if I'm using a different machine? What if  
12 I'm over at a friend's house? What if I lose one of  
13 those things? So, you're going to see that migrating  
14 into the cloud. You're going to see these credentials.  
15 Well, you're starting to suggest something that's very  
16 similar to what we have in the financial system, which is  
17 to carry out financial transactions all the time we use  
18 banks, and banks are trusted to be in that position of  
19 our intermediary with sharing that information.

20 Now, of course, it's a highly regulated  
21 environment for many reasons, and what we're potentially  
22 evolving here with identity management on the Internet is  
23 a class of service provider referred to as an identity  
24 service provider or sometimes identity provider, which  
25 scares me a little bit because it's not really providing

1 your identity, right --

2 MS. LYNCH: A broker.

3 MR. REED: Yeah, a broker. And, now, the  
4 concept of trust frameworks is in that context, fairly  
5 simple to understand, which is now you've got a service  
6 provider, an identity service provider, that's in the  
7 position of serving as your proxy or your intermediary,  
8 sharing information selectively with sites that are  
9 called relying parties. They're relying on the  
10 information that's being shared by the identity provider.  
11 But think of it this way, you've also got potentially an  
12 advocate. You've got a service writer who is in the  
13 business of helping you protect your information when  
14 it's being shared.

15 So, to some extent, this starts to address the  
16 asymmetry that John was talking about. When you go as an  
17 individual to a site and you're looking at a privacy  
18 policy and you have none of the technical legal  
19 capability to look at it, that's really an asymmetrical  
20 relationship. When your identity provider, which may be  
21 -- I mean, there are many examples of companies that are  
22 already looking at that business, Paypal, Google, Yahoo!  
23 AOL. They are in a position to say, okay, there are  
24 norms for these things. We can tell you what sites we've  
25 found to have the policies that are favorable to you and

1       which ones don't.

2               So, the emergent idea of a trust framework is  
3       that there's a set of policymakers that say, okay, for  
4       these exchanges of identity credentials, there are  
5       certain requirements that identity providers need to meet  
6       and there are certain requirements that the relying  
7       parties need to meet. We're going to specify those in a  
8       trust framework and then there's going to be a way to  
9       actually certify that the identity providers meet what  
10      are called levels of assurance in the credentials they're  
11      issuing and that the relying parties meet levels of  
12      protection.

13              And the best example is the one that's already  
14      been implemented by the U.S. government, a group called  
15      ICAM, and it's called the trust framework provider  
16      adoption program. They've actually outlined a process  
17      for the Federal government, using trust framework  
18      providers. And just two weeks ago, the first two trust  
19      framework providers for members of the American public  
20      can actually start to use commercial identity providers  
21      to provide open ID or information card credentials to  
22      U.S. government websites. And those trust frameworks,  
23      developed by ICAM and the GSA, have a set of privacy  
24      requirements in them that both the identity providers and  
25      the relying party sites need to meet.

1           That capability of a trust framework to set up  
2           that overarching set of agreements and not just the  
3           security, but the privacy norms, is I think a potent new  
4           tool and it's not just for governmental interactions. It  
5           can be for any type of Internet interactions.

6           MS. LEFKOWITZ: Well, let me ask one thing.  
7           So, this seems to introduce like a whole new privacy  
8           issue. I mean, if you look offline and you take you your  
9           driver's license and use it at the bank or the airport or  
10          the bar, it's not as if the DMV knows where you've used  
11          that driver's license. But, now, it seems as if the  
12          identity provider is going to know all the places that  
13          you are using that identity. Is that of concern? Should  
14          we be concerned about that?

15          MR. REED: I imagine you're going to get about  
16          six different responses, so I'll let others go first.

17          MS. LEFKOWITZ: Okay.

18          MR. SCHWARTZ: I would say, yes, we should be  
19          concerned, but there are things that we could do to  
20          address that concern. You know, the optimist in me sees  
21          a system that you could set up here that's not too  
22          farfetched, that could address those concerns where there  
23          are rules about what identity providers can do with that  
24          information. You have the unlinkability between the two  
25          different sets of the credentials that each of these

1 have, so they use it in two different places, they can't  
2 compare it. So, it actually provides stronger privacy  
3 and stronger security while still authenticating at a  
4 better level than what we have today.

5           So, I think that the possibilities are out  
6 there, and to have a federated system where you could  
7 have more than one set of tools to use in different  
8 places. So, I think there is a path out there, but it  
9 means setting up the right kind of rules and putting it  
10 in place and giving the right incentives. I think one of  
11 the things I thought was really interesting from the FCC  
12 broadband plan was they took this issue head on. They  
13 supported the idea of federated identity exactly as  
14 Drummond laid it out just there, but also suggested that  
15 there needs to be -- and they actually had a separate  
16 pullout box on this -- the idea of FDIC-like entity to  
17 oversee -- which is a private entity backed by the  
18 government to provide insurance in this space.

19           So, it's sort of serving as the super trust  
20 framework and setting up the rules by which if you follow  
21 these rules as a trust framework, you get safe harbor and  
22 you can -- in this space, but you have to follow the  
23 basic rules, driving people to -- and the real benefit is  
24 you have the liability protection and the insurance  
25 backing of the government, and then also, individuals can

1 feel more trust in it, too, because of the data  
2 portability issues and the fact that they know that  
3 there's some government backing behind this process.

4 So, it's an interesting model. I'm not saying  
5 that it's perfect. I mean, you still have to come up  
6 with the right rules, but an interesting model to look  
7 at. I think it sort of adds a new dimension to this  
8 discussion a little bit. And that's just brand new from  
9 yesterday.

10 MS. LEFKOWITZ: Peter?

11 MR. ECKERSLEY: So, I think there are different  
12 ways that this could go. The fundamental question is  
13 you're going to have an identity broker who's a central  
14 party that controls where your information goes. You  
15 really want to know, who does this identity broker work  
16 for? And I think there are a spectrum of answers to  
17 that. There's the worst possible answer which is that  
18 the identity broker is like a data broker. That is, they  
19 work for relying parties, they work for the people who  
20 want to know more about you, and they're in the business  
21 of giving your data to other people for a fee. That's  
22 the worst answer.

23 Maybe there's an answer that's in the middle  
24 which is maybe they're a bit like a bank. Do banks work  
25 for us? I mean, I think that's probably a controversial

1 question. There are probably some situations in which  
2 they really do work for their customers and other  
3 situations in which the bank works for itself. So,  
4 that's a murky case and talking about a data FDIC is  
5 bringing that image up for me.

6 Then probably the best possible case would be  
7 if this organization really works for me, then -- and  
8 there's a way that they can really demonstrate that they  
9 work for me, maybe that's a good thing, maybe that allows  
10 a bunch of trust relationships and allows me to have some  
11 competent professionals defending my identity online and  
12 telling companies that want my details before giving me  
13 an account, no, like here are some fake ones, or no,  
14 sorry, we're going to negotiate as a group for our  
15 customers and refuse to disclose things that you don't  
16 need to know. So, if we can get to that world, maybe  
17 this is a good avenue to go down. But we've really got  
18 to make sure that we're going down the avenue where these  
19 organizations work for their users.

20 MS. LEFKOWITZ: Jules?

21 MR. COHEN: A couple of observations. One,  
22 just to follow up on the question you raised about  
23 whether the identity provider can see all the places that  
24 you go. I think that -- you know, again, looking at the  
25 offline example, I think it's instructive to think about



1 some of the privacy principles that are inherent in the  
2 offline world and thinking about whether they can move  
3 over.

4           So, for example, to your point in the offline  
5 world, you know, the person who issued my student ID or  
6 the person that issued my driver's license can't see  
7 where I used it. They're also issued in a decentralized  
8 manner, so I can choose which of those IDs in the offline  
9 world I use, which is a huge thing that we need to move  
10 over into the online world. I don't always want to be  
11 using the same one.

12           And then this notion of unlinkability. If I  
13 use my student ID here and I use it here and I use it  
14 here or my driver's license, to Ed's point, yeah, it's  
15 possible to link them in the real world, but there's a  
16 fair bit of friction there. Somebody has to swipe it or  
17 photocopy it or write down the contents. And a lot of  
18 those transactions in the real world are femoral.  
19 Somebody looks at it, makes a trust decision, moves on,  
20 and there's no record kept. To the extent that we can  
21 try and view the online world with that principle as  
22 well, that's great.

23           I would note that there are some IDs in the  
24 real world where you show them and there is a record  
25 kept. ATM cards, you know, stored value cards, those

1 sorts of things. They have a slightly different set of  
2 principles.

3 The other thing I would note is just around  
4 this conversation about the various parties involved in  
5 the transaction. So, you have the identity provider, you  
6 have the user and you have the relying party. I mean, at  
7 some level, those are the core three. And one of the  
8 interesting challenges I think that we're noting here is  
9 that they all need to be accountable and it's really a  
10 very shared thing. If one party is less accountable than  
11 the others, then you have an imbalance and it will work a  
12 lot less well.

13 MR. ECKERSLEY: Jules, can I quickly ask you a  
14 question?

15 MR. COHEN: Yes.

16 MR. ECKERSLEY: When you talk about  
17 unlinkability, Ed made a good point before about the fact  
18 that we can make up usernames and passwords for sites and  
19 those function a bit like throwaway identities from an  
20 identity management system. But they can be linked  
21 together by all of the usual web-tracking mechanisms like  
22 cookies and third-party requests. Do these unlinkability  
23 properties that these frameworks purport to have actually  
24 really protect us against that problem?

25 MR. COHEN: So, I think the question is, to

1     what extent can the protections that we're talking about  
2     building in at the application layer, at the identity  
3     layer, actually help us in the plumbing layer? That's a  
4     question of whether those technologies can be ported  
5     down. And I guess the point I made earlier, which is  
6     that the nascent identity layer can exacerbate the  
7     problem and make it a lot worse or we can build in  
8     protection to that layer and not make the problem worse  
9     and then there can be a different set of conversations  
10    about the plumbing.

11           MS. LEFKOWITZ: I think Lucy has been waiting a  
12    while.

13           MS. LYNCH: We've actually moved on. So I'll  
14    pass.

15           MS. LEFKOWITZ: Ed, you wanted to answer that?

16           MR. FELTEN: Sure. I actually wanted to follow  
17    up on what Jules just said. From my standpoint, I think  
18    there's a lot to like about systems that help you  
19    automate the management of your identity and log in in an  
20    unlinkable way and so on. And those can all be  
21    improvements.

22                    But from a privacy standpoint, I think it's a  
23    useful goal, in those technologies, to strive for making  
24    things no worse than they are today. Providing the level  
25    of unlinkability that you can get with passwords, for

1 example. But, fundamentally, I think they don't solve  
2 one of the big privacy concerns that a lot of users have  
3 and that is the kind of market negotiation that goes on  
4 in which a user reveals some private information in  
5 exchange for getting a service. You can build  
6 technologies that make that negotiation more efficient,  
7 that make the result more precise, that improve  
8 enforcement of violations. But, fundamentally, the  
9 negotiation is still going on and there is a traffic in  
10 private information that is inherent in the way that the  
11 market operates. And I think you have to step outside of  
12 technology redesign if you want to change that. And  
13 you're opening a real Pandora's Box, I think, if you do.

14 MR. LEFKOWITZ: Drummond?

15 MR. REED: I agree very much with what Ed said  
16 and I want to point out that is the sort of fundamental  
17 purpose of trust frameworks is to say, okay, so we have  
18 this selection of technologies -- and I want to make a  
19 couple points here.

20 First of all, no one is proposing a single  
21 overarching trust framework for the whole Internet. In  
22 fact, the model of the two trust -- and Lucy and I are  
23 sitting side by side. The two trust framework providers  
24 that were announced two weeks ago at RSA are Kitara and a  
25 new organization called the Open Identity Exchange.

1 MS. LYNCH: They're both only U.S. gov facing.  
2 This is not global technology.

3 MS. LEFKOWITZ: Can you talk into your mic?

4 MR. REED: Right.

5 MS. LYNCH: I should point out here that these  
6 trust frameworks are U.S. centric and we're talking about  
7 a global technology and global policies. And at some  
8 point, inter-federation will require that you, as a U.S.  
9 citizen inter-operate somewhere else in the world. So,  
10 this is the kernel of the beginning of a solution to a  
11 problem which is much larger. There are some European  
12 programs, like Stork, already looking at this problem, as  
13 well.

14 MR. REED: So the key point of the open  
15 identity exchange approach -- and there are two white  
16 papers at [openidentityexchange.org](http://openidentityexchange.org) that I highly  
17 recommend on this to address Lucy's very issue, which the  
18 OIX approach was to say, okay, the U.S. government has  
19 really proposed the first trust framework provider  
20 program coming from -- there's a collaboration between  
21 the Open ID Foundation and the Information Card  
22 Foundation to help create OIX. The approach was there to  
23 say there are going to be many more trust frameworks.

24 There are going to be trust frameworks -- one,  
25 a semi-public, non-governmental organization that's

1 looking at a trust framework right now is PBS. It's  
2 saying we could use a trust framework in public media to  
3 help connect all of our member stations; basically, a  
4 federation of all the member stations and also the  
5 websites that service many PBS shows. We'd like to have  
6 folks that have credentials from a PBS station as a  
7 member or supporter be able to go to shows, the sites for  
8 those shows and be able to exchange information under a  
9 certain trust framework or a certain trust expectation.  
10 That's an example that's not governmental. There are a  
11 number of other examples given there.

12 So, the point there really is that those  
13 contexts, as John is putting it, can be represented by a  
14 trust framework. To address the usability issue, from  
15 the end user standpoint, it's really sort of like making  
16 a decision like a financial decision. Do I trust this  
17 merchant? Do I trust this network that I'm working with,  
18 a particular credit card? If we can do that, then we can  
19 get to a set of policies that are bound to the technology  
20 being used such that you're able to establish norms for  
21 good behavior at a fairly broad basis. It is a new way  
22 of essentially binding technology and policy that I think  
23 has the usability characteristics that we need.

24 MS. LEFKOWITZ: So, let me ask, so we started  
25 this session by talking about what we should have done in

1 the beginning when we were developing the Internet if we  
2 had thought clearly enough about it. Now here we are on  
3 the cusp of a whole new system and we're talking about,  
4 you know, how it could be set up to do it right in terms  
5 of getting the benefits as well as maintaining privacy.  
6 So, how are we going to get to that could? I mean, is  
7 that going to be -- do we need regulation, new  
8 regulation? Do we have old regulations that work? What  
9 do we -- is this going to be self regulatory standard  
10 setting? How are we going to get there?

11 UNIDENTIFIED MALE: How much time do we have?  
12 (Laughing).

13 MS. LEFKOWITZ: John?

14 MR. CLIPPINGER: I think we have to  
15 acknowledge, at least from my vantage point, is that  
16 we're designing a new kind of ecosystem and there are  
17 precedents and there are analogies we can build upon.  
18 But I think it's very different and I think it's going to  
19 be an evolving process. I think that the proposal that  
20 came out of the FCC and FDIC kind of model where you have  
21 the regulatory as a backdrop to allowing the private  
22 sector to do things I think is an interesting way of  
23 approaching it.

24 I think it's going to evolve over periods of  
25 time. I think that there's going to be a lot of learning

1 exploration. When Drummond was talking about trust  
2 frameworks, I think there are going to be lots of  
3 inventions in that over time.

4 One of the things I want to mention is that  
5 we're looking a lot at mobile data, which can be highly  
6 identified. I personally think there has to be something  
7 like a personal vault that has stewardship, fiduciary  
8 responsibilities, because I think this information is  
9 very, very valuable and I think as stakeholders come in  
10 and see these are the new kind of banks, these are the  
11 new kind of business models, there's going to be a lot of  
12 pressure. And you don't want to have some of the  
13 problems we had in the financial services industry spill  
14 over here and use those precedent. That is a very big  
15 concern that I have.

16 MS. LEFKOWITZ: Ari?

17 MR. SCHWARTZ: As I said earlier, I mean, I  
18 have some concerns about how much the relying parties,  
19 the companies that would be using these services, would  
20 actively promote the idea of these services knowing that  
21 they may get less information and they may have to  
22 collect information separately. I do think that there  
23 are ways -- if we can come up with incentives to get them  
24 involved in these systems, that there are ways to give  
25 users real control, to make this user-centric as John and



1 others have said on the panel.

2 To make that happen, one of the things that we  
3 look at as sort of the background to this is to look at  
4 what we have in the world today, falling off of Jules,  
5 and looking at the Fair Credit Reporting Act as sort of a  
6 model in this space. We had a pretty detailed filing for  
7 this roundtable on that topic, but the basic idea is that  
8 we usually think of the Fair Credit Reporting Act as  
9 covering credit, insurance, and employment as sort of the  
10 main areas.

11 But if you look at the law itself, it's  
12 actually much broader than that in terms of really using  
13 background and reputational information for eligibility  
14 for a covered need under the act, including one very  
15 broad area called business need, which, if you look at  
16 the FTC commentary, is a whole bunch of areas of  
17 eligibility, including landlord rental issues and even  
18 dating services are directly mentioned as examples.

19 And I think what we're seeing in this space,  
20 when you're talking about people getting access to  
21 services or getting access to sites on the web, we're  
22 starting to see a little bit of a blur between the  
23 traditional split that the FTC used to have in this area  
24 where they said, well, if it's about eligibility, that's  
25 covered, and if it's about identity, that's not covered

1 under FCRA. We're starting to see that. Now, you're  
2 going to start using these authentication services for  
3 eligibility to get on to a site to make decisions for an  
4 individual. So, we're starting to see that blurring  
5 there.

6 I think that in some cases today we would have  
7 an argument that the FCRA applies and we make that case  
8 in the paper. Some cases, there's a big gray area where  
9 some cases are falling and some cases clearly would be  
10 out of the FCRA. But I think that the identity providers  
11 and the trust frameworks can learn from the protections  
12 that are in FCRA and build a model around that, build  
13 contractual models. The way that we put it -- in our  
14 work prior to what the FCC was talking about in the FDIC  
15 case, which we'd have to look into a little bit more, but  
16 in terms of the trust frameworks, building three party  
17 contracts between the user, the relying party and the  
18 identity provider to get -- that include levels of  
19 protection around this area.

20 MS. LEFKOWITZ: Peter?

21 MR. ECKERSLEY: If I take the question, how do  
22 we get from the Internet of today where, frankly, most of  
23 us have no privacy to an Internet of tomorrow or the  
24 Internet we might have built back in the '90s if we had  
25 had that crystal ball where privacy is there by default

1 and most of us have it. I think the first thing to  
2 remember is that there's no guarantee that we're going to  
3 get to that Internet. It's actually going to be really  
4 hard. The costs of not getting to an Internet that  
5 protects privacy are actually very high. There are a lot  
6 of bad things that happen when you don't have privacy.

7 But if we want to get to it, we're going to  
8 have to try really hard. And that's going to involve  
9 like throwing lots of kitchen sinks at this problem.  
10 We're going to have to have engineers working on fixing  
11 these protocols at the low level, but we're also going to  
12 have to have regulatory agencies looking over their  
13 shoulder and saying, are you doing a good enough job yet?  
14 We're going to have to turn around to the browser  
15 manufacturers and say, you guys need to fix the cookie  
16 settings and the third party content settings and all of  
17 these things and we're going to need to have other non-  
18 technical institutions making sure that happens. And  
19 then we may also need better privacy rules, as well.

20 It may be that we'll get like a third of the  
21 way by technical innovation and another third of the way  
22 by implementing better privacy rules and then the last  
23 third of the way by magic and levitation. I don't know.  
24 I think it's going to be... (Laughing).

25 MS. LEFKOWITZ: Drummond, are you going to wave

1 a wand down there?

2 MR. REED: In terms of specific areas of focus,  
3 again, with this version, as you put it, if the emergence  
4 of an identity management trust framework is giving us a  
5 new tool at this relationship layer, then I do want to  
6 point out one specific area, which was in the  
7 expectation, the initial sort of -- the way trust  
8 frameworks were envisioned, for instance by ICAM, it was  
9 the concept of specifying levels of assurance from the  
10 identity provider.

11 What that means is if you -- if a site needs  
12 only a low level of assurance that you are who you are --  
13 a good example is the Federal government, a national park  
14 site that wants to take a campsite reservation. They  
15 don't need to know -- they don't need to deeply proof  
16 your identity. They just want to make sure if you're  
17 coming back to the site to change that reservation,  
18 you're the same person. That's called level of assurance  
19 one.

20 However, if you want to go and look at your tax  
21 records or health records, you're going to have to be up  
22 at at least level of assurance three. And if you're  
23 talking about government employees or defense  
24 contractors, that's a level of assurance four. Well,  
25 that's what -- these four levels of assurance were

1 defined by NIST and it's a very well established concept  
2 on the side of what's the level of confidence you have in  
3 the information coming from the identity provider.

4           When we started to look at this and say, okay,  
5 if trust frameworks are going to now be a tool for  
6 establishing policy for identity management in an  
7 Internet layer, there needs to be the corresponding  
8 concept on the relying party's side, which it was Mary  
9 Rundle at Microsoft that -- co-author of one of those two  
10 papers that I pointed out -- who said, we should have  
11 that corresponding things, let's call it levels of  
12 protection.

13           And that's the levels of protection to which  
14 the relying party sites, when the information is shared  
15 with them, whether it's non-correlatable identifiers at  
16 level one and they actually have to say our policy is  
17 we're taking a non-correlatable identifier, we're not  
18 going to try and correlate it. You're giving us other  
19 information that is correlatable, but at level one  
20 protection, we're saying we're not going to correlate it,  
21 okay? On up to higher levels of protection.

22           It solves the problem, A, of making it  
23 understandable to consumers and, B, it establishes again  
24 these norms which, as Ari was saying, if they get  
25 established in trust frameworks for which there's

1 societal pressure, if not regulatory pressure to adopt,  
2 that's again a tool that could solve this problem on a  
3 broader basis.

4 MS. LEFKOWITZ: Ed?

5 MR. FELTEN: I want to agree with what Peter  
6 said about the technical opportunities. But I want to  
7 add two things to that. One is that although I have high  
8 hopes for what we can do technically, and certainly we  
9 can do a better job in designing the technology to give  
10 users more effective control, there are -- some of the  
11 underlying technical problems are fundamentally hard.  
12 And this is going to be -- the technical issues here are  
13 things that we're going to be wrestling with for the  
14 longer term.

15 Number two, I think there's an important role  
16 here for self regulation. I think there are important  
17 areas in which we basically have some idea of where the  
18 line between responsible corporate behavior and bad  
19 actors would lie. But in some of these cases, there  
20 really is not a well established line that is agreed  
21 upon. And I think in a lot of areas it's a matter of  
22 getting people together and agreeing on some brighter  
23 line that responsible companies can agree not to cross,  
24 and then trying to generate pressure through all the  
25 means available, including pushback from users and help

1 from technology to try to give companies an incentive to  
2 stay on the right side of that line.

3 MS. GARRISON: Well, I think the answer to  
4 today's question is that this is really hard. There are  
5 some things that we can do. We can have secure URLs,  
6 explore anonymous browsing, look at browsing controls,  
7 and I gather that browser companies are doing that, deal  
8 with cookie settings, look at things like the Adblock  
9 Plus, as Peter called it, crowd sourcing, and identity  
10 management which addresses a part of what you do when you  
11 have to have transactions on the site. Of course,  
12 wrapped up in all of this are usability issues. There  
13 are also corporate governance issues and enforcement  
14 issues.

15 So, it's a very complicated topic and I think  
16 that our panelists have done a marvelous job today of  
17 introducing us to the complexities and making the  
18 information very accessible. Thank you all so much.

19 (Applause)

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1                   PANEL 2: HEALTH INFORMATION

2                   MR. MOHAPATRA: Good morning, everyone. My  
3 name is Manas Mohapatra and to my left is Loretta  
4 Garrison, and the two of us will be co-moderating our  
5 next panel which focuses on privacy issues related to  
6 health information. We recognize that everyone has a  
7 viewpoint regarding health information, so we expect that  
8 our panelists will engage in a spirited discussion about  
9 these very important issues.

10                  In this panel, we plan to examine the ways  
11 health information has migrated outside the traditional  
12 medical provider context and discuss the consequences of  
13 that migration, including looking at the benefits and  
14 risks that may result from the increased sharing of  
15 health information.

16                  Before we get started, I'd like briefly to  
17 introduce our esteemed group of panelists. Starting from  
18 all the way to my right, we have Marc Boutin, who is the  
19 executive vice president and chief operating officer of  
20 the National Health Council. To his left is Kimberly  
21 Gray, who is the chief privacy officer for the Americas  
22 Region of IMS Health. Next to her is Deven McGraw,  
23 director of the Health Privacy Project at the Center for  
24 Democracy and Technology. And to my immediate right is  
25 James Heywood, who is the co-founder and chairman of



1 PatientsLikeMe.

2           Beginning with Loretta's left, we have Deborah  
3 Peel, who is the founder of Patient Privacy Rights. Next  
4 to her, hopefully, will be Jodi Daniel, who is the  
5 director of the Office of Policy Planning. She has not  
6 yet been able to make it. Next to Jody will be Linda  
7 Avey, who is the founder and president of the Brainstorm  
8 Research Foundation. And, finally, all the way left is  
9 Stanley Crosley, who is the co-director of the Indiana  
10 University Center for Strategic Health Information  
11 Provisioning. We are very pleased to have this panel of  
12 experts with us today.

13           And before we dig into the substance of this  
14 panel, I just want to go over a few logistical items. As  
15 with the last panel, audience members can submit  
16 questions to this panel by filling out a question card  
17 and handing it to FTC volunteers who will be circulating  
18 within the room.

19           For those people who are watching via webcast,  
20 they can send their emails to the panel by emailing them  
21 to [privacyroundtable](mailto:privacyroundtable) -- all one word --@FTC.gov.

22           To our panelists, I'd remind you that if you'd  
23 like to be recognized, just turn your name tent on its  
24 end and we'll recognize you. And we're going to have to,  
25 unfortunately, keep a close eye on the time as we have a

1 number of topics to cover with this panel. So, with  
2 that, I will turn it over to Loretta to get us started.

3 MS. GARRISON: Thank you, Manas, and thank you,  
4 panelists, for being here today. We're really looking  
5 forward to this conversation.

6 Deven, if we can start with you, what we've  
7 traditionally thought of as health information has  
8 changed considerably in recent years with the advent of  
9 new technical and commercial enterprises. We have  
10 personal health record vendors, we have genetic testing,  
11 medical drug information sites, online health community  
12 groups. We have devices that record information and send  
13 that information back to the manufacturers. So, what is  
14 health information? Who has it when it's no longer  
15 limited to just the information between you and your  
16 doctor or you and the hospital?

17 MS. MCGRAW: Thank you very much, Loretta. I'm  
18 not sure that the definition of health information has  
19 necessarily changed, but the context in which we see it  
20 has certainly changed. If you think about where it is  
21 defined in the law in HIPAA, it's an extremely broad  
22 definition and was purposefully drafted broadly so that  
23 nothing would fall out of it, so that essentially all the  
24 information within the health care system would be  
25 considered personal information.

1           But outside the context of the medical system,  
2 we might look at it very differently. So, just to give  
3 you an example, a heart rate that is taken by your doctor  
4 in the doctor's office is medical information. A heart  
5 rate that comes from your Nike heart rate monitor or your  
6 Polar heart rate monitor is still heart rate information,  
7 but we might think differently about it because it's in a  
8 completely different context. But it would still fall,  
9 quite frankly, under the definition of health care  
10 information and whether it rises to the same level of  
11 sensitivity or not is a question that's worthy of  
12 discussion by the panel.

13           MS. GARRISON: Stan, do these new non-  
14 traditional holders of health information raise different  
15 sensitivities or suggest different ways in which the  
16 information should be treated as far as privacy or  
17 security is concerned?

18           MR. CROSLEY: I really, really want to say no,  
19 but I know that that's not going to be acceptable here.  
20 No, in fact, they do clearly. The problem we have, and  
21 Deven already started hitting on it, is that even non-  
22 traditional sources are incredibly diverse. So, you're  
23 throwing in to this non-traditional category everything  
24 from insulin pumps that wirelessly transmit information  
25 back to physicians potentially to sites like

1 PatientsLikeMe. So, saying is there a single way to  
2 conceive of these things is very difficult.

3 But I think it's also very true that health  
4 information, no matter where it is, is very different  
5 than any other types of information. There is clearly a  
6 societal and an extra you, you know, a perspective that  
7 you have to consider when you think about health  
8 information use. So, I think you always have to approach  
9 these traditional or non-traditional health information  
10 stores by asking the questions, you know, are they  
11 designed to improve the health of an individual or are  
12 they designed to improve the health of society or will  
13 they improve quality of care? Will they affect privacy?  
14 Will they create harm to privacy? Those two things have  
15 to be looked at. The juxtaposition of privacy and data  
16 control in this context becomes health or even life.

17 MS. GARRISON: Does anyone want to add anything  
18 to that? Kim?

19 MS. GRAY: I think that different kinds of  
20 health information certainly have to be treated  
21 differently because they carry with them different risks.  
22 Obviously, information about a sensitive condition, that  
23 particular individual may feel should be treated with  
24 much more care. For example, the various state laws that  
25 now address things like HIV positive status or AIDS or

1 drug or alcohol kinds of conditions. I do believe that  
2 we need to treat health information with some kind of eye  
3 towards what the patient's really looking for.

4 MS. GARRISON: Deborah?

5 DR. PEEL: Thank you. I think part of this  
6 discussion comes up because it did not used to be  
7 possible for health information to get everywhere. It  
8 pretty much stayed in doctor's offices. And now, with so  
9 many kinds of health websites, so many kinds of offerings  
10 on the Internet, health information is not where it used  
11 to be and isn't protected. And so, I don't think we can  
12 have exactly what -- I think what someone called context  
13 specific protections. Protections for health information  
14 have to follow the data or you don't have privacy.

15 And in terms of being able to slice and dice  
16 which information in health is sensitive or not, the best  
17 person to do that is the individual with plenty of  
18 information about the risks of what sharing different  
19 kinds of information are. So, we're going to have to  
20 develop really robust tools to educate people about the  
21 fact that, well, yeah, on your Polar monitor, when you're  
22 just looking at your heart rate, that piece of data, in  
23 and of itself, may not be very meaningful, but combined  
24 with all kinds of other information about you on the  
25 Internet and from all the places that collect health

1 information already, it could have very different  
2 implications.

3           So, we think that the definition of health  
4 information is broad, as Deven said, for good reason and  
5 people don't understand yet how broadly it's been  
6 disseminated. And we believe, also, that part of the  
7 reasons people share health information so freely at  
8 health sites is they kind of think that they're like  
9 doctors, you know, that health sites are out there to  
10 help me with information. They don't understand that  
11 many of the websites are business-based models and they  
12 use the information, which is extremely valuable, as a  
13 commodity.

14           MS. GARRISON: Thank you, Deborah. That  
15 actually brings up a really good point and why we want to  
16 have this discussion about the traditional versus non-  
17 traditional context. Jodi, can you talk about HIPAA,  
18 which everybody knows, but I'm not sure that everybody  
19 really understands what it is and what it covers and what  
20 it doesn't cover and why that's relevant to this  
21 discussion.

22           MS. DANIEL: Sure. Thank you. I'm sorry for  
23 my delay today. First, I just want the disclaimer, I'm  
24 with the Office of National Coordinator, not with the  
25 Office for Civil Rights. They're the authoritative

1 source on information regarding HIPAA. So, I have worked  
2 on the HIPAA privacy rules for many years, but this does  
3 not represent the department's view.

4 So, HIPAA only protects health information,  
5 individual identifiable health information, held by  
6 certain entities, traditionally covered entities. These  
7 are most health care providers, health plans and health  
8 care clearinghouses which were sort of entities that  
9 helped facilitate the transactions between the health  
10 plans and the health care providers.

11 The new high-tech act that was passed last year  
12 did expand some of the provisions to directly hold  
13 business associates accountable for those protections.  
14 So what that means is those entities that are doing  
15 business on behalf of a covered entity and using  
16 individual identifiable health information to do that  
17 also have some responsibilities under the HIPAA privacy  
18 and security rules to protect information. But what it  
19 doesn't cover is a lot of other entities that hold health  
20 information.

21 Now that we're in sort of an age where we're  
22 trying to help empower consumers, make sure information  
23 and data are available to consumers, there are a lot of  
24 different organizations that are out there that are  
25 holding health information that are not covered by those

1 HIPAA rules. It also doesn't include some traditional  
2 entities like life insurers, disability insurers and the  
3 like, that also hold health information. So, it provides  
4 a good baseline of protections at a federal level for  
5 health information, but it is limited in what entities  
6 have to abide by those protections and what information  
7 is protected. So, it's a starting point, but it doesn't  
8 necessarily address the gamut of discussion that we're  
9 having here.

10 MS. GARRISON: So, the areas that we're talking  
11 about that are nontraditional, that are not covered by  
12 federal regulation that is the HIPAA -- what everybody  
13 knows as the HIPAA rules, instead default to the FTC Act,  
14 Section 5, which is fairly broad, very baseline coverage.

15  
16 So, Deven, does the context of the new non-  
17 traditional holders of health information raise different  
18 sensitivities or suggest different ways in which the  
19 information should be treated as far as privacy or  
20 security is concerned and should there be some extension  
21 of the baseline that's in the HIPAA world that extends  
22 out to certain of this information in the non-traditional  
23 world?

24 MS. MCGRAW: Notwithstanding that we agree  
25 that there needs to be baseline protections that follow



1 data wherever it goes, we do not think that the exact  
2 same rules should apply for data in the health care  
3 system as data that's held by commercial entities,  
4 specifically because the business models are completely  
5 different.

6 Now, I will acknowledge that there's some gray  
7 area here where there is sort of mixed health care  
8 mission and business model approaches out there. But for  
9 the most part, for information in the health care system,  
10 those entities use it to fulfill a mission, to care for  
11 you, to pay for your care, whatever those health care  
12 clearinghouses do, which I'm still not sure. But there's  
13 a mission that's related to health care and, therefore,  
14 the HIPAA rules were specifically designed to allow  
15 information to be used for traditional health care  
16 business operations, caring for patients, paying for  
17 care. That's not what Internet companies do, quite  
18 frankly. They have a business model to follow. And to  
19 some extent, they care that the service that they're  
20 offering through their site is seen by consumers as  
21 valuable, but their bottom line is to make money or else  
22 they wouldn't be putting the site up there.

23 So, to the extent that the risks that consumers  
24 face are quite different, you need a targeted regulatory  
25 regime in order to meet that. And notwithstanding that

1 the unfair and deceptive trade practices authority under  
2 the FTC is helpful in this regard, it's not a  
3 comprehensive framework of privacy protections based on  
4 fair information practices that HIPAA is. So, we can  
5 quibble with HIPAA at its margins, but my sense is that  
6 it's, in general, the right approach. We need sort of a  
7 similar set of fair information practice rules that  
8 govern consumer privacy on the Internet and that would  
9 cover health information as it flows there.

10 MS. GARRISON: Jamie, do you have any thoughts  
11 to add?

12 MR. HEYWOOD: Well, I want to go back to your  
13 original question where you asked us to define health  
14 information and I think this is the crux of the problem.  
15 I mean, it's very straightforward in sort of the existing  
16 health care infrastructure to define health information  
17 as a transaction between a health care professional,  
18 someone who is paid in a health care context, and a  
19 patient. And that's a very tight definition and it  
20 works.

21 If you go beyond that, I think we have to  
22 actually ask a little bit about what the consequence of  
23 the information is and what it means. And health is  
24 defined at some level -- could be defined and should be  
25 defined as broadly as the deviation from normal. Whether

1 that is positive or negative.

2           So, for instance, I have my own genome done, I  
3 basically have no risks for anything that's detectable.  
4 So, if I share that information, I can lower the cost of  
5 transactions I engage with in the world because I have an  
6 advantage. But my sharing that information puts everyone  
7 that is unwilling to share that at a disadvantage. So,  
8 I'm sharing a positive outcome, or you could look at that  
9 in the same way as an intelligence test, which modifies  
10 health outcomes, or any variable that is measured,  
11 whether that be heart rate or anything.

12           So, the question about that is, given that any  
13 information about someone, their behavior, their status  
14 either at a molecular level or at a behavioral level or  
15 at a phenome level, is useful information for someone in  
16 a competitive environment, in a bargaining environment  
17 like we talked about earlier. I don't know how you  
18 tightly define health care information outside of the  
19 business transaction process of the health care  
20 profession itself.

21           And I think what is interesting -- and clearly  
22 we know an immense amount about our patients at  
23 PatientsLikeMe because they share that information as  
24 best as we can in a consented and understood environment.  
25 But I would argue that Yahoo! or Microsoft or Google know

1 far more and could use that information with different  
2 levels of restrictions. So, I think we need to look at,  
3 fundamentally, what is the consequence of this.

4 If I could put one more quick frame on this,  
5 what I get concerned about when we talk about using  
6 health information in a privacy context outside of the  
7 health care professional world is, we're really starting  
8 to talk about the regulation of the flow of information  
9 and speech. We're starting to put a restriction on  
10 individuals' ability to communicate with each other in  
11 the context that they choose in a democratic fashion,  
12 with or without, more or less, effectively with consent  
13 in that process.

14 And we're not talking about the fact that we  
15 are supposed to live in a society that was founded on the  
16 principle that all are created equal and we're not  
17 talking about the protection of deviation from equality  
18 from discrimination. We're talking about the inhibition  
19 of knowledge about deviation from equality. So, again,  
20 we are framing this dialogue not in the consequence of  
21 discrimination space, not in the all are created equal  
22 under our principle of law space, but that we shall not  
23 communicate any deviation from that principle.

24 So, it's a very dangerous space here because  
25 health information is fundamentally anything that we know

1 about you that affects your future. And if we define it  
2 this way, we're talking about imposing a framework that  
3 comes from historical contexts that are not really  
4 appropriate for human society in dialoguing around this  
5 concept of equality and discrimination.

6 MS. GARRISON: Thank you. Linda?

7 MS. AVEY: Yeah, I think that sort of a  
8 corollary to that, what Jamie just said, is we should  
9 really, I think, spend more time defining the harms that  
10 could come from this. I think we talk about privacy and  
11 we don't really spend enough time to think what truly  
12 could happen if someone got some of your information.  
13 Let's really carry that through to an end point that  
14 would be harmful to that individual. And until we do  
15 that, I feel like we talk in a vacuum.

16 We got this a lot when I was still at 23andMe  
17 of, oh, if somebody gets my genetic information, let's  
18 parse that a bit, let's talk about what would happen if  
19 someone got your genetic data. Could they really hurt  
20 you in a very specific way? And when you really dive  
21 into that and drive to some points, yes, there are some  
22 concerns and we think this is why GINA was passed. That  
23 was kind of the first step to help protect people through  
24 their employers or health insurers from discriminating  
25 against them.

1           I think there are going to be a lot of  
2 unintended consequences from GINA that we haven't really  
3 talked about. One of the things we sat and thought  
4 about, like let's say you interview for a job and the  
5 people who interview you, they just really don't like you  
6 and they don't think you're going to do a good job, so  
7 they don't hire you. Could that person come forward and  
8 say, you know, they found the genes for being an asshole?  
9 I'm genetically an asshole and you discriminated against  
10 me for that. I hate to use the language, but -- excuse  
11 my French. But that's exactly the kind of unintended  
12 stuff that could happen if we have too many laws in place  
13 that prevent the free flow of information. So, defining  
14 harms, I think, is a very important thing that we need to  
15 do and spend time on.

16           MS. GARRISON: Well, I agree with you and we  
17 want to do that, but one thing from the consumer  
18 perspective is that when they deal with their doctor and  
19 they know about HIPAA, what their understanding is that  
20 there are certain protections, including security  
21 protections, around the use of that information. What  
22 they don't realize is that there are limits to that. And  
23 once you step outside the doctor's office, all of those  
24 protections, including the security protections and  
25 requirements, disappear.

1           Yet, Linda, in your work with 23andMe, you  
2 actually imposed those pretty strict regimes around that  
3 information in order to provide those protections that  
4 was voluntary. Do you want to talk about why you thought  
5 that was important to do there?

6           MS. AVEY: Well, in the world of genetic, I  
7 think it's a very specific set of issues around genetic  
8 data because if you talk to a genetics expert, they will  
9 say that if I had about three points in your genome and a  
10 little bit of phenotypic information from you, maybe from  
11 Google searches, I could identify you very quickly. So,  
12 that whole idea of de-identification with genetic data is  
13 kind of a myth. So, for that reason, we felt it was very  
14 important that we protect the information to the  
15 umpteenth degree.

16           You can never guarantee complete privacy, but  
17 we do feel like there is so much value in that  
18 information. But keeping it in a secure environment and  
19 then allowing people to come to you to say, you know, if  
20 I could, my dream would be to pose this question or this  
21 query against the data, allow that to happen and then  
22 spit the results out.

23           And in one of our conference calls, I guess  
24 this is very much along the lines of the census where the  
25 information is protected, but you're allowed to go in and

1 do queries of it and get some very meaningful, aggregated  
2 information back. And that does seem to be a model I  
3 think that probably is better in the genetic space.

4 MS. GARRISON: So, if I hear you, what you're  
5 suggesting is that there is, in fact, a place for certain  
6 kinds of rules of the road or certain minimal protections  
7 in the privacy and security around the information. Is  
8 that right? I mean, you're not saying that this is just  
9 all up for grabs?

10 MS. AVEY: Exactly. Well, and I should put it  
11 out there that I don't speak for 23andMe, but in my mind,  
12 it's important for companies to put out in their privacy  
13 policies what they plan to do with the information. And  
14 you should read a privacy policy very carefully before  
15 you sign up for any type of service that's going to have  
16 your personal information.

17 But on the same token, a lot of companies make  
18 the choice that here's what we're going to do internally,  
19 but then you also should have access to your data, I  
20 believe. And if you want that, it should be within your  
21 right to do what you want to do to share it with other  
22 people. So, if you have Alzheimer's disease or you have  
23 it in your family and you've generated your genetic data,  
24 you know what a company is going to do with it, but you  
25 want to take it and share it with other people who are



1 going to do different things with it, I believe that  
2 should be within your rights.

3 MS. GARRISON: Deb, I know you've been waiting.  
4 If you can briefly address it, we want to move to the  
5 harms.

6 DR. PEEL: Sure. What I wanted to say that's  
7 foundational to this discussion is the problem with the  
8 protections in the HIPAA privacy rule was the key  
9 consumer protection was removed in 2002, and this  
10 continues not to be widely known or reported. But prior  
11 to the amendment to HIPAA, consumers had to be asked for  
12 their permission before their information was shared  
13 electronically with providers.

14 Today, because the consent provisions were  
15 removed, all of the covered entities can make the  
16 decisions about using our information, and until we get  
17 the audit trails, which were in the high tech bill, even  
18 without our knowledge and we can't refuse or stop these  
19 transactions. So, although I agree with you, Deven, that  
20 there are a lot of problems with how health information  
21 is used outside of the health care system, many of the  
22 players inside the health care system are using our  
23 information and misusing it in ways that we would never  
24 agree to because we don't control it.

25 For example, all the pharmacies in the United

1 States are data-mined and prescription information is  
2 sold daily and used in various ways that the public  
3 typically doesn't know about or agree with. So, it's  
4 really important to understand that the key consumer  
5 protection was taken out of the privacy rule and that  
6 does make a difference because many health companies and  
7 health IT vendors are using the data and selling it for  
8 things that people would not agree to.

9 And the point really is, as Linda says and  
10 really, Jamie, I think as you say, is that people should  
11 be able to make choices with personal information. We  
12 just believe that everyone should know what the  
13 consequences of the choices are and be freely made. And  
14 potentially with genetic information, if you make a  
15 choice to share it, it could harm other people. So,  
16 there may be some differences with that compared to other  
17 kinds of health information. But we need entirely new  
18 tools that inform people about how the information can be  
19 used and how to control it in a way that makes sense to  
20 them.

21 MS. GARRISON: Great, thanks. I'd like to turn  
22 to the risk issue and, Marc, if you can lead us off. Are  
23 there new security or privacy concerns that are raised  
24 with respect to the disclosure of this information in  
25 these non-traditional settings? Are there particular

1 risks associated with certain information and lesser  
2 risks associated with other or other contexts?

3 MR. BOUTIN: Thank you. There certainly are  
4 risks, but I want to be clear to the earlier discussion.  
5 We've been focusing in on risks, but there are also  
6 benefits. And I think we need to identify and stratify  
7 the risks and identify and stratify the benefits.

8 The National Health Council represents 133  
9 million people with chronic conditions, many of whom have  
10 multiple chronic conditions. The reality is they're  
11 making tradeoffs in their lives. The technology and  
12 information boom has made life very different for many  
13 people with chronic conditions. Many people who had  
14 death sentences can now live a life with a chronic  
15 condition, can live at home, and can use some of this  
16 technology to make life better for themselves.

17 I would grant you that there is a complete lack  
18 of understanding amongst the general public and certainly  
19 amongst people with chronic conditions about the risks  
20 here. But many of them are making very calculated  
21 tradeoffs to live at home, to live a more independent  
22 normal life with the technology that is available to  
23 them. So, clearly, we have risks. I think certain risks  
24 are more dangerous or potentially more harmful to people  
25 than others, but there are a lot of benefits and we have

1 to look at the risks in the context of the benefit to the  
2 individual.

3 And so, the challenge here is how do you  
4 stratify that risk, how do you stratify that benefit, and  
5 how do you address what are, in reality, very extreme  
6 viewpoints? When you look at people with chronic  
7 conditions, as much as 30 percent are happy to have their  
8 health information used if it's going to benefit their  
9 children or grandchildren in terms of new treatments.  
10 But on the other extreme, you have people with chronic  
11 conditions who do not want their information used unless  
12 they provide consent, and many of whom would say they  
13 would not provide consent.

14 The reality is the majority of people with  
15 chronic conditions, like the majority of people in the  
16 general public, fall somewhere in the middle. So, our  
17 challenge is, again, how do you stratify the risk, how do  
18 you stratify the benefit, and how do those competing  
19 interests weigh?

20 MS. GARRISON: And, Marc, you've mentioned,  
21 also, that when you're a patient with a chronic  
22 condition, you're balancing a lot of different things in  
23 a very different way than the ordinary individual who  
24 does not face those life threatening or life impairing  
25 problems. Do you want to speak to that?

1           MR. BOUTIN: Sure. If you look at an issue  
2 from the perspective of -- and we do this often in  
3 Washington, DC -- you look at a young staffer up on  
4 Capitol Hill. They may have never taken a prescription  
5 in their entire life and their perception here is very  
6 concerned about privacy and security. But if you take  
7 the context of somebody with Alzheimer's or somebody with  
8 a complex autoimmune disease or a neurologic condition,  
9 somebody who may be facing death as a result of their  
10 condition, their tolerance for risk changes. And they  
11 articulate this in this phase.

12           Even when you look at the risk of privacy and  
13 security breach, which I have to be very clear, they take  
14 very seriously. Nobody with a chronic condition wants  
15 their privacy or security breached. However, they'll  
16 tell us in focus group work and in other studies we've  
17 conducted that they liken it to what happened after 9/11.  
18 We all faced greater security in travel. We all faced  
19 greater invasions of our privacy as a result of that.

20           If you have a chronic condition and you know  
21 that you do not have a viable treatment and you know that  
22 your children or grandchildren may face the same fate,  
23 you're very concerned about the development of new and  
24 better treatments for them. You're very concerned about  
25 their lifestyles being better, being able to stay at home

1 longer, having better cognitive skills. And as a result,  
2 you're willing to trade off some of that security in that  
3 space. And many of these people will say they'll do it  
4 without even being asked. So, our challenge is, again,  
5 how do you balance these competing interests?

6 MS. GARRISON: Right. And those kinds of  
7 tradeoffs would not necessarily be made, as you  
8 indicated, by someone who's not facing those life  
9 threatening situations.

10 Deven, can you speak more to this point on the  
11 risks, particularly in the context of the merging of  
12 health information that's collected in the non-  
13 traditional context, merging with online or offline data  
14 that's other than health information? Because we're  
15 seeing a lot more of that merging of data.

16 MS. MCGRAW: Yes, we are seeing a lot more of  
17 that. I want to start off by responding to some of the  
18 earlier remarks. I don't think we have to nor should we  
19 go down the road of a Draconian set of rules for consumer  
20 privacy on the Internet that essentially cut off the data  
21 flow and decrease its utility to people for the reasons  
22 for which they seek it out on a regular basis and  
23 increasingly so every day.

24 On the other hand, one of the harms that could  
25 result of allowing this sort of wild west environment to

1 proliferate is that we, in fact, decrease people's trust  
2 in going there. So, folks who have no qualms at all  
3 about having their information shared won't be deterred  
4 at all from using the Internet because there's sort of a  
5 threshold for privacy and the extent to which they care  
6 about it might be quite low.

7           But I'll put on the table that for most people,  
8 they actually would like a sort of baseline set of rules  
9 and many of them, in fact, think they're out there and  
10 exist when, in fact, they don't, rather than just leaving  
11 it to the privacy policy of the company.

12           We actually have on this panel today companies  
13 that have done -- that have recognized, in fact, that  
14 people do care about this, and so, they put in their  
15 privacy policy very clear provisions about how that data  
16 is going to be used. But that is absolutely not true for  
17 many of the sites that you see out there. And so, people  
18 are sort of in this environment where their data can be  
19 sold. If the company says in its privacy policy they  
20 won't sell it, then, of course, they can get in some  
21 trouble with the FTC if they violate that. But there's  
22 nothing that says that they have to make that commitment  
23 to people.

24           So, oftentimes if they even say that -- you  
25 know, the provisions of the privacy policy become very

1 hard to read, and so, we've got this environment where  
2 people are putting health information on the Internet,  
3 probably thinking their privacy is more protected than it  
4 is. And at the same time, that data is being merged with  
5 the plethora of data that is out there on the Internet  
6 about how much you paid for your house, things that  
7 you've purchased. And there are Internet-based companies  
8 arising all the time that are merging this data together  
9 and selling it.

10 We just sat in an office yesterday at CDT and  
11 pulled up a profile on me where someone was trying to  
12 sell a credit report. This is not an official credit  
13 reporting agency, but it was obviously a collection of  
14 data points about me on the Internet that had my zip  
15 code, it reported that I was married. So, part of it  
16 isn't factually true. So, the other damage here is that,  
17 in fact, this information created by data points based on  
18 your searches, et cetera, is not, in fact, always all  
19 that accurate.

20 But if you're merging that with true health  
21 data that people have put up there or that they maybe  
22 have put into a personal health record, then you've  
23 essentially got, again, just this incredible database of  
24 information that if we don't have basic protections in  
25 place about how that's used, that are both about how



1 individuals consent in a privacy policy or in a notice of  
2 practices, but is also about stopping patently unfair or  
3 unreasonable behavior.

4 MS. GARRISON: Jodi?

5 MS. DANIEL: I agree with a lot of what Deven  
6 was saying. From our perspective in promoting health  
7 information technology, we're obviously trying to  
8 leverage the benefits that you can get from making  
9 information available to other providers to improve  
10 coordination of care to consumers so that they can better  
11 manage their own health and health care, et cetera. And  
12 I just wanted to try to tease out some of what we're  
13 talking about with privacy and security because we keep  
14 kind of lumping it together.

15 It seems to me that at least folks sort of  
16 expect that there is some basic level of security  
17 protections that folks can't necessarily, even if they  
18 want to make their information available to some folks  
19 for research purposes or to other consumers, that there  
20 are some basic security protections so that it's not a  
21 free-for-all, that only those who are authorized to get  
22 access to the data do.

23 So, I think there's sort of the security issue  
24 in protecting the data and then there's some of the  
25 privacy issues. In the consumer facing services on the

1 Internet, we talk about privacy policies and even  
2 entities that do try to do a good job of communicating  
3 their privacy policies to consumers. We know that many  
4 consumers don't read them. Even if they read them, they  
5 don't understand them, even if the company is trying to  
6 be clear. And there's still a significant disconnect in  
7 the understanding of consumers and how information is  
8 flowing, what protections there are or aren't and what  
9 they are agreeing to.

10 So, I think there is a lot of room for  
11 improvement in the area of transparency and making sure  
12 that consumers are making informed choices if, in fact,  
13 they are making choices, or at least know what they're  
14 agreeing to when they put their information out there.  
15 And it's very hard to get to a place where you have  
16 consumer choice if you don't have that understanding and  
17 that transparency. So I think that is an area where I  
18 think a lot of progress could be made.

19 MS. GARRISON: Stan?

20 MR. CROSLY: I agree completely with Jodi. I  
21 think that was very well said.

22 The other point I wanted to address was the  
23 trust point because I think trust is absolutely pivotal  
24 in health care for sure and non-traditional settings, as  
25 well. But think of trust not only as trust on securing

1 the information and the privacy protections, but also  
2 think about trust as an outcomes perspective. If people  
3 are going to a site or going to a non-traditional using  
4 their home health care devices, and they're not going to  
5 trust that the information is going to be used to their  
6 advantage or used to benefit their care, or if their  
7 quality isn't improved, their quality of life isn't  
8 improved by the sharing of that information, then they're  
9 also going to lose trust in the model that they're  
10 participating in, both the non-traditional as well as the  
11 traditional health care settings.

12 So, trust has to also be measured not just  
13 in -- we have to do everything possible to make sure that  
14 the information is tied down, but also we have to make  
15 sure that the information is utilized to the benefits of  
16 the individuals. In some cases that means sharing the  
17 information. And that is really precisely the issue that  
18 was faced when HIPAA was first passed. And in 2002, when  
19 they took out the consent provision was so the  
20 information could be shared and quality of care could be  
21 addressed.

22 So again, I don't dispute for one second that  
23 that decreased the potential of privacy protection. It's  
24 hard to argue that it didn't. But I think it also had an  
25 order of magnitude improvement in quality of care that

1       came about that. And so, I think that trust element is  
2       really a two-edged sword, as well.

3               MS. GARRISON: Marc, did you have something you  
4       wanted to add?

5               MR. BOUTIN: Quickly with respect to the  
6       benefits. I said earlier there are 133 million people  
7       with chronic conditions in the United States. Most of  
8       them have multiple chronic conditions. The challenge  
9       that many of them have is that when you have a chronic  
10      condition, it's usually not visible. And when you think  
11      of that number, that's nearly 40 percent of the  
12      population. So, if you count the people around you, four  
13      out of ten probably have a chronic condition and you're  
14      not aware of it and they're not aware of the other folks  
15      with chronic conditions.

16              One of the spaces that this new technology  
17      fills is it brings these people together online and you  
18      can't underestimate the value of that to people who feel  
19      invisible, people who are sitting in this room and feel  
20      invisible. There's important social and health and other  
21      benefits in this space. So, again, the value here is to  
22      look at those benefits weighed against the risks and  
23      figure out a solution that addresses both security and  
24      privacy, but doesn't undermine the benefits to the point  
25      where they're of no use.

1 MS. GARRISON: Deb?

2 DR. PEEL: As the only one on the panel that's  
3 a practicing physician, I think if you all were in my  
4 place -- and I've been a mental health professional, a  
5 psychiatrist and analyst for 35 years -- you would  
6 understand where I'm coming from and why I founded  
7 Patient Privacy Rights. And that is that from the moment  
8 I went into practice, people came to me and they said, if  
9 I pay you cash, will you keep my information private?  
10 Why did they say that? Because they had lost a job or  
11 their reputation had been damaged because what they said  
12 in the doctor's office did not stay in the doctor's  
13 office. And so, these are very real, very real problems,  
14 the lack of privacy, that keep people from getting  
15 treatment.

16 And it's not, of course, just job  
17 discrimination, but health information is used by  
18 insurers, not only health insurers, but life insurers,  
19 even property and casualty insurers. And banks and  
20 financial institutions today are permitted by Gramm-  
21 Leach-Bliley to handle and transfer health records in the  
22 same way that they share credit reports.

23 So, this information has gone way, way, way  
24 beyond the doctor's office. And it's really important, I  
25 think, in this discussion that we don't act like this is

1 an either/or situation where we must share all of our  
2 data to get the benefits or, you know, we have to  
3 Draconianly not participate at all in the benefits of  
4 health technology, and it's a completely false  
5 opposition. We should be able to do both to the degrees  
6 that we want and I don't know anyone -- if you were  
7 thinking of me, Deven, I don't know anyone who wants  
8 Draconian rules. I think we need to have choices that  
9 people make because there are significant, significant  
10 majorities that want and expect these choices because of  
11 the harms.

12           And we already know from HHS findings that  
13 600,000 people a year refuse to get early diagnosis and  
14 treatment for cancer because they're afraid the  
15 information will leak out and affect them. Two million  
16 in my field, mental health, refuse to get early diagnosis  
17 and treatment because the information may harm them. And  
18 I can say this again as a psychiatrist, we have to give  
19 our patients Miranda warnings almost. Look, if you use a  
20 third party payor or if you get a prescription, this is  
21 going to have consequences for your life. And that's  
22 very discouraging to have to say that. We shouldn't have  
23 a health care system where you have to worry about  
24 whether you get care is going to destroy your future and  
25 your life.

1 MS. GARRISON: Thank you very much. We can  
2 clearly spend a couple of days on this, but we are a  
3 little tight on time. So, I'd like to move quickly to a  
4 topic about marketing, use of health information for  
5 marketing.

6 Kim, marketing or advertising is a major source  
7 of revenue for online companies. It's been permitted  
8 under HIPAA, although there were additional restraints  
9 imposed on medical marketing. Can you talk about the  
10 marketing aspects? And, Jodi, if you could also follow?

11 MS. GRAY: Yeah, I'd be happy to. I believe,  
12 though, that most online marketing does not take place in  
13 the HIPAA world. In other words, I think covered  
14 entities and business associates are not, for the most  
15 part, doing online marketing. I spent many years at a  
16 health plan and the marketing that was typically done  
17 there would have fallen outside of marketing. In fact,  
18 it really wasn't marketing as that's defined under HIPAA.  
19 What it really was was offering goods and services that  
20 were health related and were of direct benefit to the  
21 patients receiving that information, typically by mail.  
22 So, I'm not quite sure how the HIPAA high-tech world  
23 comes in to play here.

24 High-tech clearly has made some amendments to  
25 HIPAA as far as this definition of marketing goes, but,

1 again, I'm not really sure where that came from because I  
2 don't believe there were a lot of complaints about  
3 inappropriate marketing in the traditional health care  
4 setting. I don't believe that HHS was receiving  
5 complaints about marketing being done by covered entities  
6 or their business associates. So, I'm not real sure what  
7 the legislative intent was behind that switch to make the  
8 modification under high tech.

9 But, clearly, I think online marketing, the use  
10 of cookies, targeted markets while surfing the web or  
11 whatnot are not coming from the traditional health care  
12 world. They are coming from the more non-traditional  
13 kinds of things that we're looking at today.

14 I don't know that there is a good remedy for  
15 that today, but I'm not so sure there needs to be one. I  
16 think studies probably need to be done to see if people  
17 actually want to be marketed to through targeted  
18 marketing first, and I don't believe that's really  
19 adequately taken place at this point in time. I mean,  
20 the plus to this is that none of us really want to be  
21 bothered by marketing ads that have nothing to do with  
22 what we're interested in.

23 Do we welcome those marketing ads that do have  
24 something to do with what we're interested in? Perhaps.  
25 I don't know and I don't honestly know. Perhaps others



1 on the panel know if there has been any real research  
2 done into this, but I believe that that's probably the  
3 first step.

4 MS. GARRISON: Jodi, can you talk briefly about  
5 why Congress put restraints on marketing within the HIPAA  
6 context? And then we'll move to the broader online  
7 marketing.

8 MS. DANIEL: Sure. Well, I can't talk to  
9 Congress' specific intent, but I can talk about what were  
10 some of the rules and where the challenges are and what  
11 has changed in high-tech. HIPAA does generally require  
12 an authorization by a patient for use or disclosure of  
13 health information for marketing purposes. The challenge  
14 is, what is marketing? And something -- it's something  
15 that is related to the treatment of the individual  
16 marketing. When is something treatment, when is it  
17 marketing?

18 So, for example, if a doctor sends out a refill  
19 reminder, they're, in effect, trying to encourage a  
20 patient to spend more money on a particular drug. Or if  
21 there's a new drug that hits the market and they send out  
22 information to a patient that might benefit from that new  
23 drug, again, one could argue that's marketing, but one  
24 could also argue that that is a doctor trying to help  
25 provide the best treatment or inform their patient of

1 treatment options.

2 We've had so many discussions on where do you  
3 draw the line between treatment and marketing and making  
4 sure that you're preventing an entity from doing those  
5 things that are marketing that folks are concerned about,  
6 but not interfering with important treatment  
7 communications. So, the privacy rule originally tried to  
8 do this and draw this line and say that health-related  
9 communications were basically exceptions from marketing,  
10 and I'm saying that in a very general sense.

11 What the high-tech act did was go one step  
12 further and limited what health-related communications  
13 could be considered a health care operation and not  
14 require an authorization by saying that if a covered  
15 entity received direct or indirect payment for making the  
16 communication, then they have to get an authorization  
17 from the patient to do that.

18 So, there's still the question of what's  
19 payment and the Office for Civil Rights will come out  
20 with modifications to the HIPAA privacy rules or proposed  
21 modifications that will address those and ask for  
22 comment. But what the concern was, I think, is that if a  
23 doctor is being paid to make a communication, is that  
24 somehow different, is the consumer who receives that  
25 going to trust their doctor and not understand that there

1 might be a conflict of interest there because they're  
2 getting paid for it? That being said, a doctor in a  
3 small practice in a rural community may really feel that  
4 it's important to communicate information to a patient,  
5 but may be operating on small margins and may not have  
6 the resources or want to spend the resources to make  
7 those communications given other competing demands.

8           So, there may be some important payment for  
9 communications that the doctor may want to do. And so,  
10 the question is, again, what is the line of marketing?  
11 But I think that there was some concern that if a doctor  
12 is being paid to make the communication, even if it's  
13 being reimbursed for their costs, that it might taint --  
14 you know, there may be some conflict of interest and the  
15 patient should be aware of that. I think that was the  
16 intent.

17           MS. GARRISON: So, Deven, there is some line  
18 drawing in HIPAA, but there's no real line drawing  
19 outside of HIPAA, in the non-traditional world.

20           MS. MCGRAW: No, no. Again, we live in this  
21 space where we've got a set of rules that apply when  
22 information is in the health care space and those rules  
23 don't apply and we've actually argued that the same rules  
24 should not apply. Again, we've got to have a regime that  
25 appreciates the value of the Internet, but also deals

1 with the risks.

2 But in the online context, with respect to  
3 targeted behavioral advertising -- and CDT has written a  
4 fair amount on this -- essentially there aren't any hard  
5 and fast rules, again, beyond what might be in a  
6 company's privacy policy, which, of course, they then  
7 have to abide by. But they don't have to do one of those  
8 in the first place or make any specific promises. So,  
9 what you see is an increasingly sophisticated attempt to  
10 be able to target people with very specific advertising  
11 based on their click stream, all of their Internet  
12 traffic essentially, you know, pseudonymised, not that  
13 they know it's Deven McGraw, but they're able to sort of  
14 know that it is me, this single person, looking at all of  
15 these searches.

16 MR. HEYWOOD: And that you're married.

17 MS. MCGRAW: What?

18 MR. HEYWOOD: And that you're married.

19 MS. MCGRAW: And that I'm married and that I  
20 live at zip code 20004.

21 But right now all that we have to regulate the  
22 space is some self-regulatory principles that are not  
23 uniformly adopted by all of the companies in the space.  
24 And we posit that self-regulation is not, on its own,  
25 enough to protect consumers in this space. That,

1     instead, you need some baseline rules for which patients  
2     -- patients, I'm still in the health care context -- that  
3     individuals, at a minimum, ought to be able to, if it's  
4     non-sensitive information, be able to opt out through  
5     very clear choices presented to them. And if it is  
6     sensitive information, of which we've put health in  
7     there, which gets back to our conversation earlier about  
8     that pesky broad definition, that people ought to be  
9     required to opt in to receiving those ads.

10            So, therefore, you set up a situation where  
11     people who want to be targeted, who would rather not have  
12     the barrage of ads that don't have anything to do with  
13     them and would prefer to see ads that are much more  
14     relevant to their lives and what they apparently care  
15     about based on what they search for on the Internet, can  
16     do so. But those of us who don't, don't have to.

17            MR. MOHAPATRA: Thank you very much. I think  
18     we're going to just shift gears slightly, but in a very  
19     related sense, and talk about consent generally. And I  
20     think Deborah already spoke, in some ways, about the  
21     consent in the traditional medical environment based on  
22     the 2002 amendments to HIPAA. But I would like to ask  
23     her how should consent be addressed both in the  
24     traditional medical setting and in the non-traditional  
25     medical setting?

1 DR. PEEL: Well, obviously, most people in the  
2 traditional medical setting, patients, certainly my  
3 patients, and then all of the organizations that have  
4 joined our coalition, which represent 10 million  
5 Americans, believe that control over personal health  
6 information is essential unless otherwise required by  
7 narrow statutory limitations, or exceptions, excuse me.

8 So, we think that consent is really the  
9 foundation of trust in the systems and we're not going to  
10 have trusted Internet systems again unless people control  
11 personal information. If we look at the broad frameworks  
12 that were devised, I think actually first when it was the  
13 Department of Health, Education and Welfare, the Code of  
14 Fair Information Practices set out general principles for  
15 all personal information anticipating not -- I don't  
16 think they could have anticipated back then what we have  
17 now, but they were beginning to anticipate the problems  
18 of ease in dissemination of information and the ability  
19 to analyze it that computers brought.

20 So, we really think that we need in this nation  
21 something like that. We didn't think there was anything  
22 wrong with that scheme. We need fair information  
23 practices for all personal information, particularly  
24 because it's very clear that all this information about  
25 us is very valuable. And whose asset is it? Whose asset

1 is it? It should be that individual's asset to control.

2 And what's so important about this discussion  
3 is that in health care, we have the one area, the one  
4 area in life and in commerce where individuals have very  
5 strong rights and have had them since the founding of the  
6 nation. This is the only area where we know because of  
7 Hippocrates that we really are supposed to be able to  
8 control our information. So, if we don't protect these  
9 rights in health care, we're not going to be able to get  
10 them in wider commercial situations.

11 And you all know I think that the regimes in  
12 Europe are quite different. Even collecting an IP  
13 address is considered taking personal information. And  
14 they're not allowed to have secret databases that collect  
15 your information. I think we're going to need to be  
16 moving more to fit in with a world where individuals  
17 control digital information, data, about them.

18 MR. MOHAPATRA: One of the things that's come  
19 up in the previous roundtables and has already come up  
20 today is about how you get to express informed consent.  
21 You may have the fair information principles and you may  
22 have a voluminous privacy policy, but do consumers -- do  
23 patients understand what is being done with their  
24 information?

25 I'd like to actually direct this to Jamie right

1 now because I know that your company has tried very much  
2 to be very open in regards to what you do with the  
3 information. I think though, you would agree, that some  
4 percentage, however small, may still not understand what  
5 do you with that information. So, how do you get to  
6 expressed informed consent?

7 MR. HEYWOOD: I think the word "transparency"  
8 that's sort of in vogue today is actually the critical  
9 element here, which is can you -- do you communicate  
10 everything as best you can? And I actually think this is  
11 important when we think about a new context like the  
12 Internet sites like us or the ones that are less  
13 transparent. You do have to think about what we're  
14 comparing ourselves to. I think when you look at the  
15 existing health care system -- and we've talked a lot  
16 about business models and making money and the influence  
17 of these things on behavior. I mean, the health system  
18 itself makes money. It makes money with mechanisms that  
19 are extremely inappropriate and unaligned with patient  
20 interests, and there are all kinds of counter-incentives,  
21 almost bribes in the system, to create bad behavior on  
22 the part of health care professionals that, in general,  
23 resist them remarkably.

24 And so, I think in this context of  
25 transparency, you know, you really want to say where is



1 your cash flow coming from, what are the components that  
2 align to that, what are your goals and intent? And for  
3 us as a company, we've been doing a lot of research on  
4 this question and we actually just did -- we do research  
5 on several things. One is, do people understand what  
6 we're doing? And the answer is it varies from 70 to 90  
7 percent based on how we ask the questions.

8           There's dialogue about it on our website.  
9 There was a great thread when someone came in and missed  
10 the fact that we had this page -- this line on their  
11 front page. If you're a life sciences company, learn how  
12 you can buy our data here. And they said, what, you're a  
13 for profit company and you sell the data, and the  
14 community responded. There was 121 threads posted. They  
15 were 20 to 1 all positive, you know, if the life sciences  
16 company wants to buy my data, they care about me. One  
17 line said, if a pharma company wants to buy my data, they  
18 care about me more than my doctor because he doesn't want  
19 to know.

20           So, I mean, there was this sort of very  
21 positive vibe in that in this context of sharing. But  
22 then we go and we ask harder questions. We just did a  
23 survey and we asked questions, would you share your  
24 Social Security number, would you share your insurance  
25 policy? Social Security number helps us find out if

1 people die because we don't know when they die and that's  
2 an important variable for us in looking at whether drugs  
3 work or not. You know, income, race, living situation,  
4 relationship status.

5           And we asked the question two ways. Would you  
6 share this information? And then we said, would you want  
7 to find other individuals using this information?  
8 Because we're trying to put that in context. And the  
9 numbers came back remarkably high. I mean, 60 percent or  
10 so wanted -- with the exception of income interestingly.  
11 Everything else they were good with; income they didn't  
12 really want to share. And we're trying to learn what's  
13 the right balance and it's listening to this sort of very  
14 democratic, open institution that, by the way, when we  
15 screw up, they tell us. But I don't think the world  
16 operates that way.

17           And you had asked a question earlier about  
18 rules, are there rules in principles? We don't know them  
19 yet. We have a set of values, patients first,  
20 transparency, no surprises, that we will never meet.  
21 There's no way for us to have 60,000, 100,000 people  
22 understand. It's not possible. I will say we are, I  
23 think by measure, better than anyone else I've ever  
24 looked at, but we are probably a long way from what I  
25 would define as consent.

1 I don't know what the rules are. The rules are  
2 a set of principles that you iterate towards and the  
3 commitment to measure it and maybe the willingness to put  
4 that data up online. I don't know the answer yet. And  
5 we're moving towards that answer.

6 So, I think this consent question is really  
7 tricky and it does come down to trust. It's about are  
8 these institutions acting in responsible, trustworthy  
9 manners that are aligned. And I don't know how to  
10 regulate that.

11 MR. MOHAPATRA: Marc, do you have some thoughts  
12 on this?

13 MR. BOUTIN: Yes, thank you. Consent is  
14 really, really tricky and I would agree with some of the  
15 comments that consent is intricately linked to trust and  
16 there is clear evidence that there are many people that  
17 forego treatment as a result of not trusting that their  
18 information is going to be held confidential, especially  
19 for stigmatized diseases and conditions. But consent  
20 isn't the magic bullet here. And that's the challenge.

21 Consent, when you look at people with chronic  
22 conditions specifically and with the general public, 75  
23 percent of people don't understand it, don't understand  
24 how it works, don't even realize that they have given  
25 consent.

1           I'm sitting here and I'm looking at a lot of  
2 people. You guys look pretty smart to me. How many  
3 people have signed the consent forms when you went into  
4 your doctor's office? Raise your hand. How many of you  
5 actually said, I'm not going to sign it or I want  
6 specific exceptions? A couple of hands went up. That's  
7 the most I've ever seen when I've asked that question.  
8 And it's because it's very challenging.

9           Most people with chronic conditions are told  
10 they're not going to get care if they don't sign the  
11 consent form. The reality is the current system is not  
12 working. I think there are a lot of things that can be  
13 done to improve it. There's no question about that. And  
14 we should strive to improve it. It is interlocked with  
15 trust.

16           But the reality is that people expect our  
17 government to protect us in terms of public health,  
18 safety. They expect research to be done to improve  
19 treatments. We're spending over \$30 billion a year with  
20 government money to figure out how to address new  
21 treatments. These perceptions are juxtaposed against  
22 each other. We want consent to be the key, but yet we  
23 want the information to be used for certain purposes.  
24 We've got to do both and I think that's the issue.  
25 Consent is, in and of itself, not the solution, but it's

1 part of the solution. And you've got to look at it in a  
2 greater context.

3 MR. MOHAPATRA: Deborah, we have just a few  
4 minutes, but if you wanted to make a quick point?

5 DR. PEEL: Sure, sure. Well, the problem is  
6 for the public they really do object to having their  
7 information used without their permission. Alan Westin  
8 did a survey for the Institute of Medicine and found that  
9 1 percent of the population only would agree to open  
10 access to data by researchers; 38 percent would want to  
11 know what the project was about, the purpose, who was  
12 doing it and so forth, whether it would help their  
13 family; and another 13 percent said flat out, even with  
14 information, they didn't want digital information about  
15 them used. So, this is very important.

16 We don't believe that the entire public knows  
17 what public health uses are, knows what quality research  
18 is, knows what comparative effectiveness work is, knows  
19 what patient safety work is. These are all research to  
20 them and the public does want to participate. Many  
21 people want to participate. And you'll get fuller,  
22 better data when they understand that the data is not  
23 going to be forcibly taken from them and we don't need to  
24 do that.

25 Particularly, as a psychiatrist, I'm very, very

1     aware of people's mental state and what they can  
2     understand and when they can understand it. And you all  
3     are certainly right, there are people that when they're  
4     in the throes of illness or they're ill or they have some  
5     kind of impairment or they have a guardian, they cannot  
6     give consent. But the majority of people, the majority  
7     of the middle really want it and are capable of  
8     understanding what's going to happen to them if it's  
9     explained to them.

10            Another benefit of technology is that the  
11     technologies, independent of when you're sick, we can  
12     have robust consent tools that explain these things at a  
13     time when they're not so sensitive and explain the  
14     implications of different choices. So, we need to have a  
15     whole lot better training about consent and we can make  
16     much better consent because of technology.

17            MR. MOHAPATRA: Linda, do you have --

18            MS. AVEY: Yeah, just a quick comment about  
19     this concept of consent. We tend to talk about it, I  
20     think, in black and white. Like you've either consented  
21     to something or you haven't. But with technology, I  
22     agree, Deborah, that we now with the ability to have a  
23     consent dialogue going with people, that we can have them  
24     consent and they can change their minds.

25            Some people look at PatientsLikeMe when they're

1 not sick and say, I would never share my information, and  
2 then they got ALS and everything changes. Their life is  
3 flipped upside down. And, now, suddenly, sharing  
4 information could be very valuable to them and their  
5 families. So, this notion that we're going to define  
6 this and then everyone is going to agree to it, that's  
7 never going to happen either because we're human beings,  
8 we change, our opinions change, our perspectives change.

9           One of the things that I think we could focus  
10 on is how can we put language in very simple terms for  
11 people to understand as they're going through life and  
12 they're changing and they're saying, you know, I do  
13 consent to this now. But by consenting to this, what  
14 does that mean? Can we come up with standard language  
15 that people understand and companies can agree to that  
16 say, here's what you're agreeing to right now at this  
17 point in time, with this decision you are making sure of  
18 this information. Whether it's a little language on the  
19 top of a survey, but something that really triggers that  
20 trust, that people say, okay, I'm going to do this, but  
21 now I know this is how my information is going to be  
22 used.

23           And if we can come up with that language and  
24 that methodology, then I think we're going to make some  
25 headway. But otherwise we can't live in a black and

1 white world.

2 MR. MOHAPATRA: Well, this issue of consent is  
3 an important one and pervades all issues related to  
4 health information and privacy, and specifically to our  
5 next topic which is about the role of medical data in  
6 research in terms of consent issues related to that. But  
7 people understand that there is a big debate right now  
8 regarding making medical data more accessible for various  
9 critical social needs. Stan, would you like to start us  
10 off to highlight some of the major issues in that debate?

11 MR. CROSLY: Sure. I think one of the major  
12 issues is consent. Beyond consent, I think you start  
13 with the traditional analysis that you've heard here in a  
14 couple of places, and that is, what's the utility to the  
15 individual, what's the benefit to the individual, what's  
16 the benefit to society? And society really not as a  
17 concept that's unknowable, but a society of patients who  
18 are dependent on discovery of medicines or other  
19 treatments. And then, what's the potential harm that can  
20 occur with the sharing of that information or with the  
21 actions that you want to undertake. I think it's really  
22 important to maintain that framework.

23 One of the issues that was raised here earlier  
24 is that we are on the cusp of -- and just the cusp, I  
25 mean, maybe the doorstep of the cusp -- of really



1 understanding personalized medicine. We are barely at  
2 the place where we are making medicines more safe. And  
3 we're able now because of either genetic sequencing or  
4 finding certain snips and probably morphisms that may  
5 identify certain illnesses or certain reactions to  
6 certain drugs, that we're administering them more safely.  
7 Due to genetic testing, certainly companion diagnostics  
8 is going to be become far more common over the next five  
9 years than you've seen so far. So, we are on the cusp of  
10 tailoring therapy now. And the first step is to make  
11 products more safe.

12 That said, the amount of information that  
13 exists in medical records, and even electronic records  
14 now -- we wouldn't have said that ten years ago -- but in  
15 electronic medical records is staggering. It's why the  
16 panels here are worried about the privacy issue, but it's  
17 also why the potential benefits are completely unknown.  
18 We can't even conceive of the benefits. And the worst  
19 possible step is to say that, well, we need to get a  
20 handle on medical research and slow it down because we  
21 want to make sure that we protect people's privacy. I  
22 think we need to make sure we protect against harm. I  
23 absolutely believe we need to prosecute harm mercilessly.

24 But I think that the transparency that's been  
25 talked about is important. I think consent is very

1 difficult in the medical records research space. Medical  
2 records as distinguished from interventional research, I  
3 think you're going to talk about that a little bit next.  
4 But medical records research data that already exists  
5 that is collected in traditional settings within the  
6 health care setting. Even a 3.2 percent opt-out rate,  
7 Art Kaplan at the University of Penn found, could  
8 completely bias the ability of a research effort to  
9 conclude a realizable result. So, you'll have bias  
10 because they found that the people who opt out have  
11 shared issues. So, by having those shared issues, you  
12 completely bias the research result. That's a safety  
13 issue. That's a life issue. People die when information  
14 isn't shared appropriately, and that is not a dramatic  
15 overstatement.

16           And so, it is critically important within  
17 research both from a safety perspective, a bio-  
18 surveillance perspective, and now as we step into  
19 pharmaco-genetic or genetic research, epidemiological  
20 research and pharmaco-epidemiological research, we need  
21 to kind of string together genetic information, medical  
22 records information, epidemiology to understand whether  
23 it's an underlying environmental or a genetic or a drug  
24 issue. So, the only way we're going to advance this  
25 medicine is to look at these issues that have been

1 identified on the panel. But I think that with research  
2 and within the traditional health care setting, there's a  
3 far more fundamental issue at hand and that is consent  
4 has an ethic that cuts both ways.

5           If we are saying you have to control your  
6 information and know how it's going to be used, and if  
7 you say yes or no, then that controls everything else  
8 that follows. I think that's too much burden on an  
9 individual. We need a paradigm or a structure on  
10 accountable use. What is expected for the use and how is  
11 that going to be permissible by saying -- and if do you  
12 that, then this is the frame and the people who are  
13 worried about how their information may be used, you can  
14 address the harms that can evolve from that.

15           MR. MOHAPATRA: Deborah?

16           DR. PEEL: Well, I really disagree. I think  
17 the public is not in that place that they've agreed to  
18 give up their data for the greater good in the sense that  
19 you're talking about. In fact, we're seeing some of that  
20 right now with the kind of attacks that are going on for  
21 newborn blood spots. I don't know if you all know the  
22 situation in Texas. We worked very hard, Patient Privacy  
23 Rights did, with the Genetic Alliance and some great  
24 technology companies to try to get a consent process to  
25 be used rather than have the spots be destroyed.

1           And so, what happened in Texas was the newborn  
2 blood spot program somehow kept 5.4 million spots without  
3 clear authorization, and then they did use them in ways  
4 that turned out to be very disturbing to people for  
5 various kinds of research projects without consent. And  
6 we need the newborn blood spot programs. Research has  
7 already shown that families are much more willing to  
8 share their information when they know that they're going  
9 to be asked, the newborn blood spots in particular.  
10 There seems to a growing number of people out there that  
11 are terrified of research for, I think, completely  
12 unreasonable reasons. And we have to be able to address  
13 them and say, no, you're not going to be forced to do  
14 this, and we need to be able to enable the rest of us  
15 that want research to say, yes, I want to keep those  
16 blood spots because if my kid gets cancer when she is 18,  
17 we can compare the DNA at age 18 with the DNA from birth  
18 and that will lead to some of the kinds of personalized  
19 treatment that you're talking about.

20           But I'm very, very concerned that unless we  
21 return to the basis of research ethics, which is the  
22 autonomy of the individual and the individual's right to  
23 choose, we don't want to kill the goose that's laying the  
24 golden eggs.

25           Just one other thing in my field, again mental

1 health, 30 or 40 percent of the people are off the grid  
2 and there are no records for them. No records. So, I'm  
3 selfishly hoping that we can have a really trusted system  
4 so people who see therapists, who get treatment besides  
5 drugs, with complicated mental conditions so that we can  
6 actually know what the best treatments would be. And I  
7 know we'll never get it in my field unless there is truly  
8 a trusted consent system.

9 MR. MOHAPATRA: Kim, do you have some thoughts?

10 MS. GRAY: Yes, thank you. Well, I think it's  
11 very unfortunate, to say it mildly, that these blood  
12 spots in Texas were destroyed. I think it's important to  
13 note that there was a disconnect in that particular  
14 situation and that my understanding is that this was de-  
15 identified information. And I think where we really need  
16 to enhance things, other than necessarily through  
17 consent, is by enhancing public understanding of the  
18 difference -- of just the significant difference between  
19 de-identified information and identifiable information.

20 The Texas case illustrates that lack of  
21 understanding by the public of just what can be done with  
22 de-identified information. And as Stanley had pointed  
23 out, consent is not always an easy thing to do when we're  
24 talking about research, and if we need to have the public  
25 good be the final goal of research, then we need some

1 other alternatives. And maybe one good alternative is  
2 the use of de-identified information.

3 I work for a company that does handle an awful  
4 lot of de-identified information. We receive roughly 75  
5 percent of the prescription information in the United  
6 States in de-identified form. What comes to us is not  
7 someone's prescription information that identifies a  
8 person. Pharmacies are not selling us protected health  
9 information. But, in fact, we receive de-identified  
10 information, and then we treat it in such a manner that  
11 we put controls around that to avoid any appearance of  
12 re-identification, and we extend those controls not just  
13 internally, but to external entities that might, for some  
14 reason, have reason to have that data.

15 With using de-identified data, we're actually  
16 able to help not just commercial entities, but non-  
17 profits, state and local government both, we work hand-  
18 in-hand with a lot of research institutions, big names  
19 that you'd recognize that are reputable institutions such  
20 as Harvard, Yale, MIT, Duke, UNC, Hopkins, and I could go  
21 on and on from there. We have shared information with  
22 the Federal Government at the GAO, FDA, DEA, CMS, and I  
23 could go on from there, too.

24 But I'm offering another solution to the  
25 consent concern which is, let's use more de-identified

1 information and let's use less patient identifiable  
2 information. It's patient protective to do so. It still  
3 enhances research and allows that free flow that others  
4 on the panel have also noted is so required. You have to  
5 have a free flow of information. We can't be stymieing  
6 research, we can't be stifling innovation, or we're  
7 missing all the goals of better quality, better outcomes  
8 and enhanced health care in the new regime.

9 MR. MOHAPATRA: I think de-identification is  
10 something that hopefully we're going to have time to  
11 address in regards to whether or not medical data or  
12 certain other types of data, such as genetic data, can  
13 truly be de-identified. But I just want to go back to --  
14 I want to ask Marc actually, are there alternative  
15 approaches in the research space aside from individual  
16 consent such as the Ontario model or the recommendations  
17 I believe you worked on with the Institute of Medicine?

18 MR. BOUTIN: There are other models. And I  
19 want to stress the importance that there is no silver  
20 bullet to this. And I've said this earlier. Consent is  
21 part of the solution. It's not the entire solution. The  
22 IOM recommendation was, in essence, to expand the HIPAA  
23 protections to all information in certain areas. The  
24 Ontario model allows information to be provided to an  
25 entity that oversees how it's used for different research

1 purposes. I think there were different ways to address  
2 this, but really at the heart of this is stratifying the  
3 issues both in terms of benefit and risk and then  
4 applying the appropriate solution to that metric. And I  
5 think that's the discussion we have not had.

6 The challenges, again, people don't understand  
7 consent. As I said earlier, 75 percent of the population  
8 does not understand what consent means or how their  
9 information will be used after they give consent. We can  
10 certainly do a lot better in that space and we have to.  
11 And there are models that have been utilized that have  
12 done better, but we still have not solved that problem.

13 If you look at how health information is  
14 evolving, take, for example, the lack of awareness that  
15 the treatments that we receive, on average, work 60  
16 percent of the time. Most people with chronic conditions  
17 do not know that. Forty percent of the time you're  
18 essentially taking a placebo. For many complex  
19 conditions, cancer, neurologic conditions, it may only  
20 work 10 percent of the time. Within our lifetimes, we're  
21 going to solve that problem and figure out how to tailor  
22 the medicine so that we know it will work or not work for  
23 you. But that's going to come from research that's going  
24 to be at a large scale that is different from the kind of  
25 research we've done in the past that's going to take a



1 new model.

2           And I can tell you from the perspective of  
3 people with chronic conditions, they want this research  
4 to take place. They're still concerned about their  
5 privacy and security. They're still concerned about  
6 consent. But when faced with a life with a complex  
7 chronic condition and knowing that your children and  
8 grandchildren may face the same plight, you want that  
9 research to take place.

10           So, how do we balance these competing options?  
11 Again, consent is part of it, but we need to look at how  
12 we stratify the risk, the benefit, and then apply the  
13 appropriate metrics both in terms of privacy and in terms  
14 of safety. And so, what that means is there are going to  
15 be different levels applied to different areas. And  
16 until we have that conversation as a society and figure  
17 out how to stratify that, we're going to continually be  
18 at the spot that consent is the only solution and that  
19 privacy continues to be a problem. And we continue to  
20 see people not seeking care out of fear and not get the  
21 solutions in terms of research that we all need.

22           MR. MOHAPATRA: Thank you. Jodi?

23           MS. DANIEL: Thank you. I agree that I think  
24 that a lot of the benefits we're going to see in the  
25 health care arena are going to come from leveraging data

1 that will now be made available, hopefully, and be more  
2 useful based on health information technology. The  
3 question is, how do you then protect that information?  
4 And we're struggling with this because one of our goals  
5 is not only to improve individual health and coordination  
6 of care, but improve population health.

7 One of the things I keep hearing that I think  
8 is really intriguing and that folks have experimented  
9 with is trying to keep the data close to the source. So  
10 that when an entity has a research question or a public  
11 health agency has a question about how a particular  
12 treatment is working or what's going on in a particular  
13 population, that they can send a query to the entities  
14 that are holding the data and get back responses without  
15 getting access to the individual data. And the FDA is  
16 doing this with their Sentinel program. There are other  
17 examples of this, as well.

18 But it's a really interesting model for using  
19 data, not having that bias, but also not having the  
20 information flowing all over the place. So, it's, I  
21 think, a really good model to look at and see how much we  
22 can leverage that to both protect the data, but also have  
23 the data that's necessary for research and get the  
24 results that the data can provide.

25 MR. MOHAPATRA: I have a question for Linda

1 related to the research space. I know that you had  
2 previously mentioned to us in our research calls the way  
3 that 23 and Me had operated in terms of protecting the  
4 data, but working with researchers to get results that  
5 they were interested in.

6 MS. AVEY: Yeah. Well, it's a model that is --  
7 and it's sort of still theoretical, but the idea is that  
8 having massive amounts of genetic data combined with  
9 phenotypic information that's been collected and layered  
10 on top of the genetics, when you talk to a researcher and  
11 they hear about that, they get really excited and they'd  
12 say, well, I'd love to have access to the data. But when  
13 you really probe them on it and get a little bit more  
14 information, it's like would you really know what to do  
15 if you had access to the information? Would you know how  
16 to run the queries? Do you have a statistics background?  
17 Do you know the algorithms to run? And they stop short  
18 and say no.

19 And if you even talk to people at the Brode  
20 Institute up in Cambridge, if you really ask them how  
21 many people truly have access to the data to run those  
22 queries, it's a handful. So, it's a very specific set of  
23 skills that a very few number of people have the ability  
24 to provide to an institution. That's just the fact of  
25 the matter.

1           So, if you've got researchers who understand a  
2 disease really well, they not geneticists and they're not  
3 statisticians, but they come up with a really good query,  
4 then you can run that against the data and get the end  
5 result of that and then share that information back to  
6 them. And they're happy, they go off and they continue  
7 their research. But the data has stayed in this very  
8 safe environment. So, I personally believe that that's a  
9 very operable model.

10           And when the NIH came out with dbGap, which was  
11 this database where they were going to -- because it was  
12 ironic that the NIH was saying, well, we're going to come  
13 up with this very open access model where you're going to  
14 have access to all of these genotype data sets, and a  
15 group of individuals who were actually studying the  
16 forensics field were looking at whether if there is a  
17 pool of blood samples of multiple individuals that you  
18 could pluck out the DNA of one individual and they  
19 actually came up with a way to do that.

20           Well, the same is true in insilico (phonetic)  
21 data, that you can do the same thing, where if you pluck  
22 out a few bits of a person's profile, you can pull out  
23 their whole profile. And they pulled dbGap down for that  
24 reason because they realized there is no such thing as  
25 de-identified genetic data. So, it's worth looking at

1 these models that people are coming up with and we do  
2 believe that that is a very solid way to do it that  
3 protects people, but also enables research.

4 MS. GARRISON: And also, Kim, to go back to  
5 your earlier comments about the de-identified  
6 prescription data that you get, again the protections  
7 that you apply to it and the controls that you apply to  
8 it, none of this falls under HIPAA. It is what your  
9 company does as a practice. Can you talk also a little  
10 bit about what happens when you get queries to this -- to  
11 you for information about or access to the data? What  
12 are the controls that you want to place on that to the  
13 recipients and what, in some instances, are their  
14 responses?

15 MS. GRAY: First of all, much of what we do is  
16 actually in report form. We're not actually giving raw  
17 data. We're giving reports that summarize it because, of  
18 course, we are the ones that do the statistical analysis  
19 as opposed to the research, as was earlier pointed out.

20 In those occasions, however, when a researcher  
21 wants particular information from us, we do impose the  
22 same kinds of controls on them that we would with anyone  
23 else who would want that particular information. So, for  
24 example, whereas internally we have security around the  
25 folks who are working with this de-identified data, only

1 certain people have access to it, they're trained as to  
2 good practices around it, we extend those same  
3 requirements by contract to others. And we will  
4 occasionally get pushback from researchers who don't want  
5 to play in the same playing field that we're playing in.  
6 They don't get that information. That is a requirement.  
7 So, for those few researchers that don't want to play  
8 ball with us, we will not be sharing the information.

9 But I must say that most researchers are not  
10 looking for that anyway. They are looking for the  
11 aggregated information because they don't have the  
12 statistical ability and it's much more useful for them  
13 to have the aggregated data tables. And those controls  
14 would be onerous, in some cases, to put on individual  
15 researchers who are not necessarily affiliated with the  
16 larger institutions.

17 MS. GARRISON: Jamie, quickly.

18 MR. HEYWOOD: Well, we run similar systems to  
19 23 and Me and I think IMS in that we sort of retain the  
20 data, we run the queries, we'll ask the questions. And  
21 we've struggled with this question because I think we  
22 have a trust relationship with our consumers. And we  
23 impose that same trust restrictions which are non-re-  
24 identification and discrimination on our partners.

25 But, actually, I'm really uncomfortable with

1 the use of the word "de-identified." I think it's -- I  
2 mean, I will tell you that if you look at the 10,000 of  
3 our patients that are public, you could, with 100 percent  
4 accuracy, pattern match them to your system, and there's  
5 no question that that's possible, and it's a query that  
6 you could run on patients that are putting public  
7 information to profile.

8 So, I think that we should -- we have to be  
9 honest about this question. If you have four data points  
10 about a patient, I mean, even the implication that a  
11 genomic spot that you know, the date of birth and the  
12 gender and the city, that that's de-identified? I mean,  
13 there's no more specific identifiable subdata in the  
14 world. So, under those conditions, I think we really are  
15 talking about this question of a trust framework not a  
16 de-identification type framework. And I certainly would  
17 not pretend to our customers that the information is de-  
18 identifiable. In fact, we explicitly say that it can be  
19 re-identified on the website in three FAQs. So, it's  
20 very -- this is a very -- I think it's a very, very  
21 dangerous term that we should not use at all anymore.

22 MS. GARRISON: Okay. What I'd like to do is to  
23 give each panelist about a minute to reflect back on all  
24 the issues we've discussed today and just present two or  
25 three key points that you think are most important.

1 We'll start at the far end with Marc.

2 MR. BOUTIN: I'll just conclude by saying that  
3 we have a long history of protecting privacy. We also  
4 have a long history of promoting public good and social  
5 interests. And there's been a balance between those two  
6 competing aims historically. The balance ebbs and flows  
7 depending on the context of where we are as a society.  
8 And I think we're at one of those critical points in time  
9 where society is changing. Technology is changing.  
10 Information is changing. Health and the way we deliver  
11 health and the way we develop treatments are all  
12 changing. So, we're at a pivotal point in our time. So,  
13 it makes sense that we're having this conversation.

14 I think the challenge is to, again, get the  
15 balance right for our current needs and realize that it  
16 is not a zero sum game. Privacy is not going to totally  
17 trump social need. Social need or social good is not  
18 going to totally trump privacy. The challenge is to get  
19 the right balance, given our opportunity, both at the  
20 individual level and at the societal level. So, I thank  
21 you for taking the time to listen to me.

22 MS. GARRISON: Kim?

23 MS. GRAY: Two points. First of all, to the  
24 de-identification point, I'm not going to disagree with  
25 Jamie that things can be re-identified. However, I think



1 Jamie makes an important point in that he notes that  
2 these are publicly available points. His work is done  
3 via a public vehicle. And I think as long as we are not  
4 -- and any previous re-identification that's been  
5 published has all been because of publicly available  
6 information.

7 I think the important thing to do is to ensure  
8 that your controls, if you're working with de-identified  
9 information, are not just your internal policies and  
10 procedures and your oversight, having your privacy  
11 officer at your company and your security safeguards, but  
12 that further step of restricting anyone downstream from  
13 re-identification, and if there is re-identification,  
14 have penalties for it. CMPs or whatever it happens to  
15 be, that if somebody is going to go that extra step, by  
16 commingling with publicly available data and doing a re-  
17 identification, they should suffer the consequences for  
18 that and then internally continue to reassess your  
19 processes to make sure you're keeping pace with  
20 technology and that you're not allowing that same thing  
21 to happen, which is my segue into point two, which is be  
22 accountable.

23 IMS is not a covered entity. We are doing  
24 things that we've chosen to do because we are an  
25 accountable organization and we do care about patient

1 privacy and we also care about research and all the other  
2 public good that's coming from it. Accountable  
3 organizations take this organizational commitment from  
4 the top. They put their internal policies and procedures  
5 in place. They have privacy protection goals that  
6 consider many things, laws, public policy, best  
7 practices, and self-regulation as a part of that. They  
8 do training and education. They believe in transparency.  
9 They demonstrate that they can do what they say they're  
10 doing, public education about what they're doing. And  
11 then, lastly, mitigating any harms, if there should be  
12 one that occurs, and taking their lumps as a final step  
13 being enforcement.

14           And this accountability principal is one that's  
15 not new and it's global and I think we need to think  
16 globally because privacy is global. Many of us are in  
17 global companies. But bottom line is privacy is global  
18 and the accountability principles started with OECD, the  
19 EU has it, PIPEDA and Canada have it, APEC has it. And  
20 even Gramm-Leach-Bliley, to some extent, has it because  
21 it all says, here's the end where we want to get. Our  
22 means may differ as to how we get there, but back to that  
23 whole trust thing that's permeated this panel discussion  
24 today, if we have accountable organizations that go down  
25 this pathway, we've got the trust that's needed by

1 consumers.

2 MS. GARRISON: Thank you. Deven?

3 MS. MCGRAW: We absolutely have to make sure  
4 that personal health information is protected wherever it  
5 is. And we have some protections for it whether it's in  
6 the health care system and we don't have them when it  
7 leaks out or is voluntarily put up by consumers. So, at  
8 a minimum, we can count on accountable organizations to  
9 some degree, but there are a lot of organizations that  
10 are taking advantage of a rule-free environment and  
11 they're, quite frankly, going to spoil -- upset the apple  
12 cart for those who are accountable.

13 So, at a minimum, some baseline rules that  
14 apply, consent should play a much bigger role because  
15 this is a consumer-based world and, to some extent, what  
16 they would want to do with their data, they ought to be  
17 able to do with their data. We need to be much more  
18 clear about telling them what the risks are, not just  
19 buried in privacy policies, but through other techniques  
20 and devices that can get consent in a more clear and  
21 obvious way.

22 But we can't just count, in fact, on consent.  
23 As many people have said very well today, it's an  
24 imperfect protector of privacy. Nice alliteration there.  
25 So, as a result, we also need to look at what might be

1 patently unfair to consumers that's going on out there,  
2 for which the FTC actually already has jurisdiction to  
3 crack down on.

4 MS. GARRISON: Jamie?

5 MR. HEYWOOD: This is, to my mind, a much  
6 bigger question than privacy. I think that we stand at a  
7 moment in time where the sort of very fabric of our  
8 modern society is being challenged by technologies that  
9 are connecting us in new ways. And I think that the  
10 choice that we have to ask ourselves now is, how do we  
11 approach this problem? While many of the technical  
12 details of this, I think I agree and we could disagree  
13 with, but I think there's a principle that I want to  
14 elevate up one level which is, what kind of world do we  
15 want to live in? Do we want to live in a world that is  
16 transparent, that is open, that is collaborative, that is  
17 honest, or do we want to live in a world where we are  
18 preventing the flow of the blood of humanity, which is  
19 information, because we are so weak, we have chosen not  
20 to address discrimination?

21 And I think this choice now is between a hard  
22 and an easy road. And the easy road is to say, oh,  
23 discrimination is bad, let's make sure that anyone that  
24 makes any information flow anywhere that makes  
25 discrimination happen is punished, because it's easy to

1 punish people that deal in information. The hard road is  
2 to actually live to the principle that all are created  
3 equal and incorporate it in law and make discrimination  
4 not happen. So, if the consequences go away, of the flow  
5 of information goes away, so the stigma, which is the  
6 problem we're talking about, goes away because people  
7 come into light with issues and that we collaboratively  
8 solve problems as a society. And I think we don't face  
9 this choice well. We're making the decision to look at  
10 information and not discrimination, and I think we should  
11 really look and ask ourselves what world do we want to  
12 live in as we develop these policies?

13 MS. GARRISON: Thank you. We are the only ones  
14 standing between this group and lunch, so Deborah?

15 DR. PEEL: I'll try to go quickly. Yeah, I  
16 appreciate what you're saying about the wider question  
17 and what kind of world do we live in. And I think most  
18 Americans want to live in a democracy and the  
19 fundamental, most important, personal liberties and  
20 personal rights have to do with being able to be separate  
21 and not have everything be known about you. I think in  
22 the words of Supreme Court Justice Brandies, I think he  
23 said, the highest right of civilized man is the right to  
24 be let alone, the right to have privacy is essential to  
25 democracy.

1           And I really appreciate -- I think that  
2           actually there's a lot of agreement on the panel that the  
3           ability to consent is very important and that individuals  
4           should make choices. But I would just like to point out  
5           that consent is not in the meaningful use criteria for  
6           all of the EHRs that are going to be purchased to start  
7           this connected world. We don't have the ability to  
8           control this information currently. And so, that's a  
9           really important point. And since this panel does agree  
10          that some degree of consent is needed, maybe you can help  
11          us work with the agencies and make sure that gets in  
12          there.

13           I know our coalition wrote a letter and asked  
14          the Health IT Policy Committee to be sure and put  
15          consumer controls in up-front and they're not. They're  
16          at the very back. So, that's really important to  
17          understand. And then, in terms of things like trusted  
18          organizations, at some point we're going to need an  
19          external trusted consumer organization that can evaluate  
20          the claims of all of these companies, whether they really  
21          do what they say or not because it really is impossible  
22          for individuals to figure it out.

23           So, individuals have rights. And as you think  
24          about this, I hope you'll think about who you think can  
25          make the best decisions for you and your family about

1 your sensitive health information.

2 MS. GARRISON: Thank you. Jodi?

3 MS. DANIEL: Thank you. I believe that we need  
4 a privacy and security framework that applies to all  
5 entities that hold information and that we need to do a  
6 better job of preventing and addressing harm, as Jamie  
7 had mentioned. I think we need to do both.

8 I think the fact that we have uneven  
9 protections is a problem because it affects trust. So,  
10 if a patient assumes that information is protected  
11 because there is some law in this space, the HIPAA laws,  
12 and don't understand that it might not be protected in  
13 another environment and that information is used in a way  
14 that they didn't anticipate, it erodes trust. And I  
15 think if we don't have this framework, we're not going to  
16 realize all of the benefits that we can realize, both  
17 from consumer engagement, from having better information  
18 to help support research, et cetera.

19 We're doing a couple things I wanted to quickly  
20 mention. We do have a privacy and security framework for  
21 health information exchange at HHS that ONC released in  
22 December of 2008 which tries to focus on fair information  
23 practices, including consumer choice and transparency.  
24 We're working on a model, an online privacy notice that  
25 folks could use to help improve transparency as to how

1 information is being used. And we're also looking at how  
2 to protect information held by non-covered entities.  
3 This is something that Congress required to us to do  
4 under the high-tech act. And we're also looking at  
5 consumer choice policies through our privacy and security  
6 policy committee, et cetera.

7           The issue here is that all of these things  
8 we're doing are voluntary. I mean, we're not talking  
9 about a government mandate to protect information in  
10 these certain ways. And I think we do need to think  
11 about how we hold people accountable and make sure that  
12 there is an even framework so that there are not some  
13 actors who are trying to do the right thing and others  
14 that are blatantly using information in ways that folks  
15 would not understand or anticipate and not communicating  
16 that to folks. So, that's it.

17           MS. GARRISON: Thank you. Linda?

18           MS. AVEY: So, I agree with everything everyone  
19 else is saying. One of the things that I think would be  
20 really interesting to look at is, could the government be  
21 in a position to really point out success stories? Were  
22 have we seen companies that have done a really good job,  
23 who have shared information and enabled consumers to get  
24 their information out and where it's been used  
25 productively? Because I think we talk in theoreticals



1 when we talk about all of these harms and the scary  
2 stuff.

3 When somebody loses a computer with a database  
4 on it, that's the story? You know, what happened? What  
5 was the implication from that? What was the result of a  
6 computer with information on it being lost? We don't  
7 ever really challenge these fears that people have.  
8 They're just sort of unknowing, but they think that  
9 sounds scary and I think that's why they answer surveys  
10 and they say, oh, I would never want my information out  
11 there. But nobody ever challenges them on that.

12 But, instead, if we can turn this whole thing  
13 around and say, here's the situation where people shared  
14 information and here's a really positive outcome that  
15 came from that and let's reward that behavior. And then  
16 certainly, as Stan was saying, if we know places where  
17 people are not following what they say they're going to  
18 do and they don't abide by their own self-imposed rules  
19 or others, that they are prosecuted.

20 So, we have laws in place that allow us to do  
21 that and I think the government has things to challenge  
22 companies that are the bad actors, but let's not put  
23 everybody in the same bucket, and really reward success  
24 if we can.

25 MS. GARRISON; It's much easier to challenge

1 when you have standards.

2 MS. AVEY: Exactly.

3 MS. GARRISON: Stan.

4 MR. CROSLEY: I'm stuck here with the  
5 traditional and non-traditional concepts, as well. And I  
6 think within the traditional concepts, there are easier  
7 solutions for research and things where we look at public  
8 benefit and we see a societal benefit and improvement to  
9 individual's health care and quality. I think uses can  
10 be better understood and I think we can move to models,  
11 like Linda suggested, models that, in fact, Ontario has  
12 with trusted entities or even the FCRA, they have a  
13 trusted entity concept on access and utilization of  
14 information. Not everybody gets access to the  
15 information. So, I think those are models that are  
16 valid. I think the OIM report talked about some of  
17 those.

18 The non-traditional setting is much tougher.  
19 It's much more difficult. And I think Jamie set out the  
20 concept of how transparency is just ultimately so  
21 critical. And I couldn't agree more with that. I also  
22 believe that the table stakes, regardless of whether it's  
23 traditional or non-traditional, is security. I mean, I  
24 don't think there's any excuse whatsoever for not having  
25 appropriate security around health information. I don't

1 care where it is or who has it. I would be in favor of  
2 understanding how some type of a framework could address  
3 the security issues.

4 Control is a much different and much more  
5 difficult concept. And I think we need to keep working  
6 our way through it.

7 MS. GARRISON: Terrific. I want to thank each  
8 and every one of our panelists for a very stimulating  
9 conversation. Thank you.

10 (Applause)

11 (Panel 2 was concluded.)

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1 PANEL 3: ADDRESSING SENSITIVE INFORMATION

2 MS. HARRINGTON-MCBRIDE: Good afternoon,  
3 everyone, and welcome back from lunch. For those of you  
4 in the building, I'm glad to see you back in your seats.  
5 For everyone on the webcast, welcome as well.

6 My name is Katie Harrington-McBride. I'm a  
7 staff attorney with the FTC. Together with my colleague,  
8 Michelle Rosenthal, we will be moderating this  
9 afternoon's panel exploring the treatment of sensitive  
10 information. Just a quick reminder, we will be accepting  
11 audience questions. If you're live in the room and would  
12 like to raise your hand with one of the question cards,  
13 one of our folks will come around and collect that and  
14 provide it to us. If you are out in webcast land, feel  
15 free to send an e-mail to [privacyroundtable@FTC.gov](mailto:privacyroundtable@FTC.gov).

16 In this morning's panel on health privacy  
17 issue, the question of sensitivity of health data,  
18 however that term might ultimately be defined, was at  
19 issue. This afternoon, we'll take an even broader look  
20 at what constitutes sensitive information for privacy  
21 purposes. We'll examine the core characteristics that  
22 make data sensitive. We'll look at some of the  
23 challenges to defining sensitive information, and we'll  
24 discuss whether such data should be subject to particular  
25 restrictions, for example, collection, use, sharing or

1 disposal restrictions.

2 I know that the first panel after lunch is  
3 often a difficult one for those of you who may have carb-  
4 loaded, as some of us did in the green room. So, for  
5 context clues, let me let you know that we're going to  
6 split this into basically two halves. The first half of  
7 the discussion will focus on definitional issues and  
8 challenges and the second half will look at potential  
9 remedies for some of the problems we may be able to suss  
10 out.

11 We feel compelled, Michelle and I, to let you  
12 know that our sartorial sameness was not intentional and  
13 we also both apologize for not wearing kelly green, and  
14 we thank those of you in the audience who are wearing  
15 green today.

16 I'm delighted to welcome our excellent  
17 panelists who will help us sort out these issues today,  
18 and I'll briefly introduce them before we begin. To my  
19 left, we have Parry Aftab who heads WiredSafety and  
20 WiredTrust. Next is Anita Allen, a professor at the  
21 University of Pennsylvania. Next to Anita, Pam Dixon,  
22 Executive Director of the World Privacy Forum. Next, Jim  
23 Harper, Director of Information Policy Studies at The  
24 Cato Institute. Next to Jim, we have Kathryn Montgomery,  
25 a professor at the American University School of

1       Communication. Next to Katherine, we have Lee Peeler,  
2       President of the National Advertising Review Council,  
3       Council of Better Business Bureaus. And, finally, last  
4       but not least, we have Lior Strahilevitz from the  
5       University of Chicago School of Law.

6               We are so grateful to each of you panelists for  
7       coming to talk about this difficult issue. It's not only  
8       difficult, but it is amorphous. So, we have our work cut  
9       out for us.

10              In our calls with our panelists, you all will  
11       recall -- and I'm cluing you all in since you weren't on  
12       the call. In our calls with many other experts that we  
13       interviewed in preparation for this and even in our  
14       research, we learned that achieving consensus about how  
15       one might go about categorizing data as sensitive is  
16       maybe a tall order for a 90-minute panel.

17              When you factor in the diversity of opinions  
18       about how you might bound a definition of each of these  
19       types of data -- well, you remember the challenge of  
20       doing that in just one context, health information this  
21       morning. So, our goal today is really to focus on the  
22       characteristics that make data sensitive. To talk about  
23       extracting the rule, about what is it really at its core  
24       that makes something sensitive, to talk about those  
25       things. And, in particular, in our conversations with

1 panelists, what we've learned is that mostly what it  
2 seems to come down to is the propensity of certain  
3 information to cause particular harm. So, we wanted to  
4 focus the first part of our discussion today on some of  
5 those harms and we thought we would start with the  
6 propensity of information to cause physical harm.

7           So, physical harm is a concrete and cognizable  
8 form of harm. We all know this. This is intuitive and  
9 obvious. If data, such as location information, can be  
10 used to subject a person to physical harm, should it be  
11 considered sensitive? And to start, why don't we go to  
12 Parry?

13           MS. AFTAB: Thank you. If somebody can find  
14 you, they may find you in real life. So, as we start  
15 looking at these issues, at WiredSafety, we deal with  
16 cyber-stalking, cyber-harassment and cyber-bullying. So,  
17 if someone knows where you are, they may show up at your  
18 door. We've seen a lot of situations where kids have  
19 been targeting someone who is black onto a white  
20 supremacist website, harassing them in the name of a  
21 black student saying, if you don't like it, this is where  
22 you find me, name, address and telephone number, and  
23 people show up at their door.

24           We're also seeing some cases of breaking and  
25 entering, where someone will show up at your house when

1 you have tweeted about this great vacation you're going  
2 on for three weeks. So, where you are and how various  
3 devices and where sharing that information can be used to  
4 hurt us is something we're just starting to learn.

5 MS. HARRINGTON-McBRIDE: Any other thoughts  
6 about that, Jim?

7 MR. HARPER: Well, sure. I think personal  
8 security is an important privacy value, if you will,  
9 something that may not be in your best definition of  
10 privacy, an aspect of privacy. But I don't think you can  
11 follow the train of logic that information that could be  
12 used to physically harm you is sensitive information.  
13 Think about how that explodes things if you just take  
14 some of the notable examples, like the murder of Rebecca  
15 Shaeffer, for example, which used address information.  
16 Are we going to make address information sensitive  
17 information subject to special controls when address  
18 information is constantly shared with all kinds of  
19 parties for lots of good reasons? It just sort of  
20 explodes sensitivity to go that direction.

21 Obviously, personal security is an essential  
22 value. Harms to personal security are serious harms that  
23 need to be reckoned with. But it doesn't follow from  
24 that that data that could be used to harm you is  
25 sensitive.



1           MS. HARRINGTON-McBRIDE: Lior, the question  
2           about whether public information, that is something like  
3           address that is widely publicized, can be sensitive.  
4           That might be one that I would pose to you. Is that  
5           something that we should -- if we're going to look at  
6           this as a harms-based model. Can we cast the net as  
7           broadly as address or are we going too far there?

8           MR. STRAHILEVITZ: Well, with address, I think  
9           it is somewhat complicated in that individuals can elect  
10          to have a listed or unlisted address. So, there may be a  
11          consent model that works reasonably well, even with the  
12          old-fashioned white pages which I guess nobody uses  
13          anymore, although there remain white page analogs online  
14          that people are presumably using.

15          On the broader question, though, I do think  
16          that in terms of figuring out what information is  
17          sensitive, that Jim's right. Privacy may be, in 99  
18          percent of all cases, a necessary aspect to the  
19          definition of sensitivity. In other words, it's very  
20          hard to come up with cases in which information is  
21          public, whatever the meaning of public is, some people  
22          would like that meaning to be broad; some people would  
23          like it to be narrow within privacy law. The meaning of  
24          what's private looks very different in, say, the privacy  
25          act versus FOIA's privacy provisions versus, say, New

1 York tort law.

2 But I think as a general rule, if we're trying  
3 to think of clear principles that might help us inform  
4 this debate, if it's truly private, then it may be  
5 sensitive. If it is public, it's very hard to construct  
6 a theory as to why it's sensitive. It's very hard to  
7 construct a theory, I think, as to why it's harmful if  
8 disclosed. So, HIV status, from the last panel we know,  
9 is almost always extremely sensitive, it's extremely  
10 damaging if disclosed. But to disclose Magic Johnson's  
11 HIV status no longer is harmful to him. You might  
12 describe that information as no longer sensitive and,  
13 indeed, for some of the reasons I think Jim was alluding  
14 to, there would, of course, be significant First  
15 Amendment constraints on any efforts to clamp down on  
16 discussions of the HIV positive status of someone who is  
17 well known for being HIV positive.

18 John Edwards' extramarital affairs, right? We  
19 can come up with a number of examples in which the  
20 information is so widely known by the public, that even  
21 though the subject matter makes us think it's sensitive,  
22 the scope of the disclosure means it no longer ought to  
23 be so, at least for these public figures.

24 MS. HARRINGTON-McBRIDE: Jim?

25 MR. HARPER: I would just add that even outside

1 the realm of public figures, there are people, there are  
2 communities who broadcast their HIV status through  
3 tattoos and things like that. There are many, many  
4 subcultures in our society that treat information that  
5 could be highly personal, highly private to some as  
6 public to others. So, it's really, really subjective,  
7 and that's the problem with broad definitions.

8 MS. HARRINGTON-McBRIDE: An excellent segue.  
9 Subjectivity is obviously at issue here and it comes down  
10 to, I guess, the difficulty of figuring out when a  
11 particular individual might have a subjective desire to  
12 safeguard some information.

13 Kathryn, could you speak a little about this in  
14 the context of your work, particularly with children?

15 MS. MONTGOMERY: Yeah. First of all, you know,  
16 this notion of defining sensitive information, only on  
17 the basis of harms, makes me a little uncomfortable. I  
18 think it sets up a certain high level of expectation  
19 there and I think we may be able to talk about kinds of  
20 information that we all agree are sensitive without being  
21 able necessarily to identify harms. I think it also may  
22 have to do with what you, as an individual, choose to  
23 disclose, as you were saying.

24 So, I think we may want to sort of talk a  
25 little bit about that. But I was involved in the 1990s

1 with the FTC and with Congress in passing the Children's  
2 Online Privacy Protection Act. That law acknowledged  
3 that children are sensitive -- what I would call  
4 sensitive users, and that is -- that law applies only to  
5 children under the age of 13, too, by the way. But that  
6 the information that they disclose and the information  
7 that is collected on them is, by definition, according to  
8 law, sensitive information. And I think that continues  
9 to be an issue.

10 I've been looking recently at the role of  
11 adolescents in the new media environment. And I think  
12 particularly when you look at social networks and the  
13 kinds of information that they voluntarily disclose, as  
14 well as what is gathered on teens, at an age when many of  
15 them are not necessarily turning, at the age of 13, into  
16 the wisest young people -- it depends upon the kid,  
17 obviously -- they can sometimes put themselves in harm  
18 in many ways and there have certainly been examples of  
19 that.

20 MS. HARRINGTON-McBRIDE: Pam, in the context of  
21 one particular group, victims of domestic violence, how  
22 does this play out? I mean, obviously, there's a very  
23 real risk of physical harm in that case, even from the  
24 release of information that might, by other people, be  
25 considered very public, address information, but which a

1 victim of domestic violence might be striving very hard  
2 to safeguard. How would we have to treat something like  
3 that, that very particular instance?

4 MS. DIXON: Right. It's a good question. I  
5 think one of the things that's pointed out by the  
6 conversation so far is that the issue of sensitive  
7 information is an issue dealing with borders and  
8 borderlines and how incredibly difficult the borderlines  
9 are here.

10 So, let's start with public information. So,  
11 you have a victim of domestic violence who, prior to the  
12 relationship that was problematic, published their  
13 address information and other locational information  
14 without fear of any consequence. So, they, themselves,  
15 made it public or allowed it to become public for  
16 whatever reason. And then after, you know, a difficult  
17 situation, then their situation changed. So, now you  
18 have information that's in the public realm and  
19 information that can, in fact, potentially harm that  
20 person. Or let's say they've gone to great lengths to  
21 then move or somehow change their status, so that now the  
22 new location information or address information is now  
23 private. That information now is sensitive to them.

24 So, what do you do in that case? You have  
25 public information for some people and private for

1 another. This leads to what Kathryn was saying about  
2 sensitive users. I think that it's fair to cordon off  
3 some categories of individuals as sensitive users. I  
4 would also suggest that individuals who have various  
5 kinds of challenges that would, for example, diminish  
6 their ability to consent or to make meaningful decisions  
7 about what constitutes sensitive information, that would  
8 be a challenge, so the very elderly, individuals with  
9 mental challenges, et cetera.

10 But something worth thinking about further here  
11 is the borderlines, and you can really see this in health  
12 information as well. So, an individual has a health  
13 condition for which they need to borrow money to pay.  
14 Let's say it's an HIV/AIDS status or even a cancer  
15 treatment. They need to borrow \$10,000 for treatment.  
16 They go to the bank and they get a loan for this medical  
17 treatment. So, here's the question. Is that medical  
18 data? Is that bank data? What laws apply here and what  
19 protections would apply in terms of data sensitivity?  
20 Because this is -- as soon as you try to say that, for  
21 example, medical data, or, you know, victims of domestic  
22 violence data is sensitive, all of a sudden it gets very  
23 messy because it all starts to spill over the borders.

24 So, then you arrive at a position of, well,  
25 does the protection travel with the data? And then that

1 helps you through the border issue, unless you have a  
2 victims of domestic violence situation where your status  
3 could change.

4           So, what I'm saying is that this is a very  
5 complex, very messy issue, and I don't think there are  
6 any easy answers here. I think that because of our  
7 sectoral system, we have quite a pickle in trying to  
8 solve it.

9           MS. HARRINGTON-McBRIDE: I think fair enough.  
10 And, yet, we still have the good hour and 40 minutes  
11 left. So, we're going to keep at it. Don't anybody get  
12 up and go now.

13           (Laughter.)

14           MS. HARRINGTON-McBRIDE: Please don't move your  
15 chairs. But Pam is right. I mean, I've got to tell you,  
16 we've been in deep on this now for six weeks, Michelle  
17 and I, talking with these panelists, who have been  
18 extremely generous with their time, and a variety of  
19 other experts. Some of whom are in the room. And it  
20 really is -- I mean, it's Alice in Wonderland. You're  
21 down one rabbit hole and then you're into the next.

22           I want to go back to the location issue. We  
23 moved very quickly from location to address. Of course,  
24 address is very public and widely known. In our second  
25 privacy roundtable at Berkeley last month, or I guess now

1     it's a month and a half ago, we talked about the issue of  
2     location tracking.  And that's different than address.  
3     That's where I am now.  This is not my address, but it  
4     happens to be where I am.  I'll be someplace else tonight  
5     -- hopefully, all of you will be, too -- celebrating St.  
6     Patrick's Day.  That information is different, isn't it?

7             So, Anita, tell us about your thoughts about  
8     the sensitivity of that information, vis-a-vis,  
9     individuals who may or may not have any subjective issues  
10    with their privacy, but how does that play out, and not  
11    only their specific location but location tracking over  
12    time?  What are the concerns there?

13            MS. ALLEN:  Well, one striking thing about your  
14    question is that I think if you ask the average person on  
15    the street, what are the major categories of sensitive  
16    information, they wouldn't say locational first.  They'd  
17    say, oh, medical, financial, educational, sexual.  They  
18    might even say sexual orientation information and they  
19    might even say race and ethnicity information.  But  
20    locational information is sort of a new way to think  
21    about a kind of information which we might regard as  
22    sensitive.

23            And one area in which locational information  
24    becomes very important in the area of criminal justice,  
25    criminal procedure.  Oftentimes, we don't want people to



1 know exactly where we are because we're doing something  
2 we shouldn't be doing. And public policymakers may want  
3 to fight public policies that make it harder for law  
4 enforcement, national security to get access to location  
5 precisely because it's the bad people who are going to  
6 care the most about others not knowing where they are.

7 Yet, all of us, no matter what we're doing,  
8 whether we're baking cookies or, you know, making crack  
9 cocaine we don't necessarily want the world to know  
10 exactly where we are at a given moment. We might be  
11 having a secret rendezvous. Again, we might just be  
12 making cookies. So, I do think there's something to the  
13 idea that we need to treat locational data as a category  
14 of sensitive information. Not perhaps as sensitive as a  
15 person's medical records, but pretty importantly  
16 protected.

17 MS. HARRINGTON-McBRIDE: Lee, do you have any  
18 thoughts about the tracking of location data over time,  
19 not just where I am now, but the amalgamation of a  
20 pattern of movement for an individual and whether that  
21 poses challenges or should be treated differently than  
22 individual points where a person might be at any given  
23 time?

24 MR. PEELER: Yes, I do. And it also seems like  
25 just -- you know, the framework of what we're trying to

1 do here is talk about where information is more sensitive  
2 than ordinary information. And, you know, as you said,  
3 it's very contextually driven. And, you know, this type  
4 of discussion that the FTC is leading, I think, is  
5 extremely valuable in looking at sort of evolving issues  
6 like location information and trying to basically  
7 analogize them to what we've done in the past.

8 I thought Kathryn made a really good point that  
9 one of the first areas that we've looked at, a while ago  
10 actually, was kids' information, and there were really  
11 two issues that drove that. One was risk of harm, which  
12 is what we're focusing on now. But the other important  
13 issue in the kids' area was the feeling that young  
14 children just couldn't appreciate the trade-off that was  
15 involved or the risk that was involved in disclosing  
16 personally identifiable information over the Internet.  
17 So, you had those two factors coming together to  
18 establish a higher level of protection.

19 And I think, you know, if you're analyzing  
20 location information, you have to follow sort of that  
21 same approach, all information should be accorded fair  
22 information handling practices. There are lots of people  
23 out there that make their location information known, you  
24 know, widely. It's on Facebook and people tweet where  
25 they are and where they're going and things like that.

1 So, establishing sort of a broad category that says all  
2 location information is sensitive, I think it's likely a  
3 step too far.

4 MS. HARRINGTON-McBRIDE: I think you've raised  
5 some really interesting points. I'm going to come back  
6 to you, Kathryn, really quickly here. But when you  
7 mention this sort of two-part analysis, that there's both  
8 a risk of harm and an inability on the part of the  
9 individual to meaningfully consent, either they're under  
10 the age of consent deemed by law or there is some other  
11 factor that prevents them maybe from being a full  
12 participant in this transaction. Maybe we should go to  
13 the example of the prevalence of self-provided data in  
14 location tracking. We all know that many people do it.  
15 Lee has annunciated this principle and we all know it  
16 from our friends. We see where they are and where  
17 they've checked in and what they're the mayor of. That  
18 information, though, that's self-provided.

19 So, by one argument, maybe Lior would say, you  
20 know, you've made that public and told everybody where  
21 you are and that's your choice and you're broadcasting  
22 that. One question that might come about is what about  
23 secondary uses? So, many of you may have seen in the  
24 media recently the pleaserobme.com website went up and it  
25 aggregated location information from foursquare and

1 Twitter and other places where people willingly provide  
2 their location. The idea of the website was to say,  
3 well, these people are not at home, so if anybody would  
4 like to pop by and maybe grab a new TV, now is the time.

5 So, the question becomes really, what about  
6 secondary uses of this information? Even where  
7 information is self-provided, is there a deep enough  
8 understanding on the part of the populous using tools  
9 like this about the potential risks for either  
10 amalgamation of that data with something else or just  
11 repurposing of it?

12 Kathryn, I wanted to get to you, too.

13 MS. MONTGOMERY: One thing I wanted to comment  
14 on because thinking back to COPPA is like thinking back  
15 to ancient history when I remember the research we did on  
16 kids and the fact that they were being asked questions  
17 and filling out a questionnaire and volunteering the  
18 information, and while a lot of that still happens in the  
19 digital media, a lot of what we're talking about here --  
20 and I'm glad you raised this broader issue -- is more  
21 behavioral targeting and behavioral profiling and data  
22 collection that's happening in a much more automated and  
23 passive way where we're not thinking I'm going to  
24 volunteer this information about where I am.

25 So, for example, with mobile marketing, the

1 whole growth of location-based targeting is based on the  
2 fact that these technologies are capable of tracking  
3 where we are. So, we're not really thinking so much  
4 about every instance of what we're doing. Nor do most  
5 consumers, I would argue, fully understand the extent of  
6 data collection and behavioral targeting in today's  
7 contemporary digital marketing environment.

8           The other thing is that talking about sensitive  
9 information in discreet terms, I think, obscures the fact  
10 that -- another issue you raised -- that it's really the  
11 ability of these technologies and these applications, and  
12 the marketing practices to amalgamate, to bring together,  
13 to converge all of this information, some of which you  
14 may have volunteered consciously, much of which you  
15 didn't, and to packets of information about you and  
16 profiles on you, that you have really no idea has  
17 happened.

18           MS. HARRINGTON-McBRIDE: Okay. Pam?

19           MS. DIXON: I'd like to kind of add on to --  
20 accrete on to what Kathryn was saying. If you take, for  
21 example, the idea of a person who has their mobile phone  
22 on at a physician's office, that location information can  
23 easily be used in other ways. Something that certainly  
24 comes to mind is some of the digital signage issues. So,  
25 for example, just a few weeks ago, I ran into a digital

1 signage vendor that has a digital concierge product that  
2 once you interact with it with your mobile phone, if  
3 Bluetooth is on, then they get your Mac address and then  
4 they target ads to you based on that information. This  
5 is all done with kind of a passive consent because you  
6 have Bluetooth on, right?

7           So, this information, taken by itself, may not  
8 cause harm. But if you accrete this information over  
9 time and layer it with other bits of data, does this  
10 information become sensitive if this information is, for  
11 example, tied to a physician visit, or something that  
12 could be construed as sensitive? So, the whole idea of  
13 sensitive data in what context and sensitive data or  
14 little bits of data that become sensitive when combined  
15 with others, I think, is a very difficult and challenging  
16 concept, but one that we really do need to grapple with  
17 because I think it's very tempting to look at data as  
18 individual units or pieces. But that's really not how  
19 most folks work with data anymore. Most people have  
20 really nice computers and really nice systems that can  
21 crunch and munch a lot of data, and I think we need to  
22 think about that context as well.

23           MS. HARRINGTON-McBRIDE: It's a Monet and we  
24 need to stop looking at brush strokes is what you're  
25 telling us?

1 MS. DIXON: Absolutely.

2 MS. HARRINGTON-McBRIDE: Parry?

3 MS. AFTAB: I'll address your question.

4 MS. HARRINGTON-McBRIDE: Thank you.

5 MS. AFTAB: Whenever I'm asked about sensitive  
6 information, I break them into two pieces. One is kids,  
7 cash and kidneys; children, financial and health. And in  
8 the United States, that's where we tend to regulate.  
9 Those are the things we care about, whereas in Europe,  
10 they care about trade unions and a lot of things that in  
11 the United States we don't consider sensitive.

12 I also identify vulnerable groups or vulnerable  
13 users, those who are more likely to be targeted because  
14 of who they are, whether it's sexual preference or racial  
15 background or ethnicity or age or you're the victim of  
16 crime, those kinds of things, who are more vulnerable.  
17 Once you get into a vulnerable group and it touches data  
18 that otherwise might not be deemed sensitive, like King  
19 Midas, it turns it to gold.

20 So, when you take location information, that  
21 might not be a problem if it's in the White Pages or  
22 Yellow Pages or the kind of thing that you can look up.  
23 But you're now dealing with a victim of violence and  
24 she's trying to hide where she is or hide the kids, it  
25 now becomes sensitive. So, how do we, in secondary

1 usage, know that information that we might not have  
2 considered sensitive is now made sensitive because it  
3 involves a vulnerable group member. And that's part of  
4 the problem.

5 I think as we start to look at this we need to  
6 create higher burdens on the people who are going to use  
7 it for secondary use. I think this is the FTC. I think  
8 that commercial use is something we can do a lot more  
9 about than we can individuals who are saying a lot of  
10 hateful things that may be covered by the First Amendment  
11 whereas commercial speech may not be. So, I think that  
12 as we're looking at secondary uses and data miners and  
13 profiling and a lot of those things that are happening,  
14 all you have to do is look at the front page of today's  
15 New York Times and see how little bits of information  
16 become a big mass of information.

17 I think that we need to turn around and say to  
18 somebody, for commercial uses, you need to know where it  
19 came from and you have to be responsible for it. You can  
20 tie it to -- you can tag it using electronics -- and I  
21 know we'll talk about this in the second half, but there  
22 are a lot of different things you can do. But I think we  
23 need to turn around and say, if you want to use it for  
24 commercial purposes, you're going to start to combine it  
25 with something else, you have to know where it came from.



1 So, it has to have some type of authenticity, some type  
2 of verification. Otherwise, it's hands off.

3 MS. HARRINGTON-McBRIDE: Okay. Anita and Jim  
4 briefly, and then I think we're going to move on to our  
5 next type of harm.

6 MS. ALLEN: Yes, briefly, I totally agree with  
7 Parry and just wanted to add that you do have -- this  
8 question of intersection, what happens when you intersect  
9 the vulnerable groups with the information which is  
10 either inherently sensitive, or we might say it's  
11 inherently sensitive, and the information which is not  
12 really all that sensitive, but when combined with a  
13 vulnerable group it becomes something we want to call  
14 sensitive. So, I totally agree with that point, that we  
15 have to think about the intersections of all these bits  
16 of data.

17 But I also want to emphasize that it's not just  
18 the question of what do individual people who might be  
19 thieves do with my locational data and what do commercial  
20 actors do with my personal data? But I want to go back  
21 to the government, also, because the government has  
22 access to our Amtrak travel records and our airline  
23 travel records. All that locational data, all that data  
24 which when aggregated provides a portrait of our lives,  
25 it's in the hands of somebody, not just commercial

1 sector, but also the government.

2 MS. HARRINGTON-McBRIDE: Jim?

3 MR. HARPER: Well, I think we run into problems  
4 defining sensitive data. There's more likely to be some  
5 traction in defining sensitive persons or groups. But  
6 I'll throw some complexity into that. As a website  
7 operator myself -- everybody should be one.

8 (Laughter.)

9 MR. HARPER: I have comments on a site that I  
10 run called WashingtonWatch.com that run into hundreds per  
11 day, easily. One bill in particular has 114,000 comments  
12 on it right now. And there's no way to manage that  
13 comment system other than trying to just automatically  
14 induce people to stop swearing so much. But I don't know  
15 in advance who a person is that's commenting on there.  
16 It is a very open -- it's a wide open system. Anybody  
17 can comment without identifying themselves. I don't know  
18 in advance who they are, what category they're in. I  
19 don't know whether they're telling the truth or not when  
20 they say who they are or when they say things about  
21 themselves.

22 I've seen even today someone say something  
23 about herself, about a domestic violence situation she's  
24 in that would be very stupid to say if you were in one.  
25 But I have no way to adjudicate whether that's true or

1 not. I have no way to adjudicate whether she's even a  
2 woman.

3 MS. HARRINGTON-McBRIDE: And we're going to  
4 talk about some of those real challenges to businesses of  
5 implementation of any of the kinds of cures that we might  
6 propose. But to get back to the identification maybe of  
7 the harms, we've talked about two other kinds on our  
8 calls, two primary types. One being financial harm that  
9 can occur, and I think that that one is a little more  
10 concrete and tangible than the other kind, and that is,  
11 dignitary or social harms, the idea that some data is  
12 sensitive because we simply don't want other people, or  
13 at least not broad swaths of people, to know about it.

14 So, let's talk about those maybe in contrast to  
15 one another. Cognizable claims under law for both kinds  
16 of harms as we know. But when it gets down to this data  
17 may cause someone embarrassment or anxiety or social  
18 distress, is there something that should be done about  
19 that? Should a system of regulation account for that  
20 somehow or is it simply too difficult to get your hands  
21 around in any sort of regulatory scheme? How would you  
22 deal with that, Lior?

23 MR. STRAHILEVITZ: Well, I think one of the  
24 common misconceptions about the work that people who  
25 legislate or regulate or hand down case law in

1 information privacy cases is that the harms from  
2 disclosure are one-sided. And I actually think a  
3 sophisticated understanding of how privacy law works and  
4 what privacy law does suggests that with respect to  
5 financial harms, dignitary harms, there are often harms  
6 on both sides.

7           So, let me provide one example to see if I can  
8 make that more concrete. I think this would fall under  
9 the stigmatization harm or the emotional distress harm.  
10 Let's think about criminal history information. There's  
11 been a huge move in nearly 50 states to publish  
12 information about crimes that individuals have committed.  
13 We know, because it's most prominent, about the sex  
14 offense registries. But California is now considering  
15 legislation with respect to animal rights abusers  
16 registries, arson registries are already on the books,  
17 burglary registries in some states. So, what should the  
18 law do with respect to these sorts of issues?

19           Well, there's obviously a harm to the ex-  
20 offender whose information is disclosed and who's trying  
21 to reintegrate themselves into society, and that seems  
22 clear. What I think is less obvious, though, but equally  
23 important -- and this is part of what makes these sorts  
24 of issues so difficult -- is that not disclosing  
25 information harms other people, right?

1           So, with respect to criminal history  
2 information, there's very disturbing, but actually  
3 extremely well done technically, research that Harry  
4 Holzer, who's here at Georgetown, has done along with  
5 Michael Stoll and Steven Raphael. And they looked at the  
6 labor market consequences of criminal history disclosures  
7 and found that in those jurisdictions where criminal  
8 history information is made most transparent, the  
9 employment outcomes of African-American males in, let's  
10 say, blue collar entry level positions do better. In  
11 other words, in the absence of reliable criminal history  
12 information, employers for blue collar positions tend to  
13 assume that roughly all African-American males have  
14 criminal histories and then, as a result, refuse to hire  
15 them, regardless of whether they've got a criminal record  
16 or not.

17           So, that's an instance in which, because of  
18 existing biases, because of discriminatory behavior,  
19 you're sort of caught between a rock and a hard place,  
20 right? If you're interested in advancing the cause of  
21 racial justice, if you're interested in undermining this  
22 propensity of employers to punish African-American males,  
23 refuse to hire them simply because African-American males  
24 as a whole have a higher propensity to have criminal  
25 convictions, then you might want a system of no privacy

1 or what people in this room might refer to as no privacy,  
2 which is complete transparency with respect to criminal  
3 history information.

4 By the same token, though, if you focus on the  
5 marginalized population, the ex-offenders themselves and  
6 you look at the effects of the Megan's Law registries,  
7 other registries that try to create greater transparency  
8 for criminal history, you'll say, well, there's an  
9 obvious harm to them if this information is publicized.

10 So, I guess what I want to suggest by way of  
11 this is that while it's very useful to talk about  
12 sensitivity, it's very useful to talk about the  
13 propensity for harm and both financial harms and other  
14 dignitary and stigmatization harms, ultimately what the  
15 FTC is going to have to do and what lawmakers are going  
16 to have to do, is confront these wrenching trade-offs  
17 because privacy law inevitably creates some winners and  
18 some losers and the government simply has to decide, in  
19 these cases, who the winners or losers should be.

20 MS. HARRINGTON-McBRIDE: So that I don't take  
21 time away from the very important work that Michelle is  
22 going to do in just a few minutes, we're going to skip  
23 lightly over a couple of topics that we've actually spent  
24 a fair amount of time on on the phone. I wanted to talk  
25 about one in particular. This is somewhere along the

1 lines of what Lior has been talking about, that there may  
2 be some value to publicizing data. We heard a little bit  
3 about this in the health information panel. Robust  
4 databases can help provide meaningful research to be done  
5 in areas where we all may benefit. There may be progress  
6 in defeating disease if we all have good information, and  
7 yet, it does come at a cost. There are real trade-offs.

8 One issue that we haven't really talked a whole  
9 lot about is the risk that use of information in a way  
10 that individuals may find troubling will chill their  
11 conduct, will prevent them from reaching out using these  
12 Web 2.0 tools because they fear that their information  
13 will be gathered and potentially used against them.  
14 Whether this is a real fear that would come to pass or  
15 not, this is the fact that there may be chilling.

16 Would anybody like to speak to that issue?

17 Jim?

18 MR. HARPER: Well, it kind of should, shouldn't  
19 it? The idea that you should be able to put out  
20 information and not have consequences is probably  
21 mistaken. Individuals should be aware. That's the most  
22 important thing. Understand what the consequences are.  
23 We don't know well enough, I think, with a lot of new  
24 technologies, a lot of new websites and protocols. But  
25 the important point is for people to be aware of

1 consequences and act accordingly.

2 MS. HARRINGTON-McBRIDE: Kathryn?

3 MS. MONTGOMERY: Well, I'd like to actually --  
4 I know we already had a panel on health which, by the  
5 way, I thought was really, really interesting. But I  
6 would like to talk about one area in health that didn't  
7 get much discussion, and that's the way pharmaceutical  
8 companies are using the web and using digital  
9 technologies for direct-to-consumer advertising, some of  
10 which doesn't always look like advertising and often it's  
11 in the form of sort of unbranded sites that people might  
12 go to for information about symptoms and about illness.

13 I know all of us have probably had experiences  
14 where we either come back from the doctor with a  
15 diagnosis that we have to first learn how to spell and  
16 then want to know more about, and the doctor has given us  
17 information that's not totally clear or we have things  
18 we're worried about. I think particularly often with  
19 young people, sometimes these can be sensitive areas.  
20 They could be sexual issues, for example, about sexual  
21 health that they don't even feel comfortable talking to  
22 anybody about.

23 The online environment is a terrific one.  
24 Internet is a great resource for information. I use it  
25 all of the time, and I'm sure we all do. But in many



1 cases, you're not really aware of where you are and how  
2 that's being used and how that's being collected and,  
3 again, connected to other information about you. There's  
4 a whole infrastructure of companies engaged in this and  
5 people aren't aware of it.

6 I agree with Jim. I think if they knew, then  
7 they should be very careful about it. But this isn't as  
8 if you're sort of putting information out there. It's  
9 you're seeking information, and your very process of  
10 seeking for information, then, is part of what's being  
11 collected on you.

12 MS. HARRINGTON-McBRIDE: Anita?

13 MS. ALLEN: Well, I think it's often useful to  
14 go back to how we got the right to privacy in the first  
15 place. And remember that when Warren and Brandeis in the  
16 late 19th Century talked about privacy, they cited as the  
17 value behind it the notion of inviolate personality, the  
18 notion of mankind having a spiritual nature. I think  
19 that in recent times we've become reluctant to talk about  
20 those kinds of values in relation to data protection and  
21 privacy. But, yet, I think it does help explain why  
22 people feel that even when the data is out there and are  
23 public and accessible that they expect their fellow  
24 citizens to have too much politeness and manners and  
25 discretion to actually use the data.

1           I'm often surprised that my students will say,  
2     yes, just because I put it on Facebook doesn't mean that  
3     my employer has a right to use it. They assume that  
4     there's kind of a social norm, which doesn't exist  
5     actually, that people will just avert their eyes as to  
6     what they learn about you through readily available  
7     sources like Facebook.

8           So, I'm personally quite challenged by trying  
9     to figure out what do we do when, on the one hand, there  
10    is information out there; on the other hand, there are  
11    norms and shifting norms which might say you're not  
12    allowed to use the information just because it's there.  
13    You're not allowed to use it just because you could get  
14    access to it. There may be sort of rules of demeanor and  
15    deference and politeness that keep us from exploiting  
16    information in the employment setting and in other  
17    similar kinds of settings, that is there just because  
18    it's there.

19           MS. HARRINGTON-McBRIDE: This is Professor  
20    Helen Nissenbaum's theory of contextual integrity, the  
21    idea that there need to be some boundaries around which  
22    people will respect your decision to use information in  
23    one context, but not hope that it's used in another may  
24    be naive or aspirational, but, nonetheless, an  
25    interesting societal question.

1           I have one other question for the panel, and  
2     it's a toughy. We've talked a lot about the fact  
3     throughout the roundtable process, and even in this  
4     panel, about the fact that all kinds of information may  
5     be sensitive for some people. If that's the case, if the  
6     barriers and the distinctions between PII and non-PII are  
7     blending and data can be re-identified and there is this  
8     ability to take something that's seemingly innocuous to  
9     anyone, but maybe use it to access information that is  
10    not so innocuous about someone, does this get us into a  
11    world where all data is, in fact, sensitive? Is it the  
12    Midas touch idea that Parry has touched on? Is that  
13    where we now are?

14           Jim?

15           MR. HARPER: Well, I think most efforts to  
16    define sensitive data probably do explode; that is,  
17    there's almost no barrier because of contextuality and  
18    subjectivity. What it brings you to is an alternative  
19    way of addressing these problems, which is to focus on  
20    the harm that can be caused and then require whoever has  
21    data to be responsible in the use of it. So, go to  
22    something like the public disclosure of embarrassing  
23    private facts tort where you can get data, you can do  
24    anything you want with it provided you don't cross this  
25    line where the law defines the harm.

1           So, I think defining harms and saying, do all  
2     you want to do without causing these harms, is a more  
3     productive way of looking at things. It's more likely to  
4     allow innovations to occur. We can't now predict what  
5     future uses of data might be.

6           It's interesting to note, I think, that almost  
7     ten years ago, it was in May of 2000, the FTC came out  
8     with its report asking for legislation around notice,  
9     choice, access and security. In reading that over, you  
10    realize that this was before Google, it was before  
11    Facebook and Twitter, foursquare and everything else. If  
12    these rules had gone into place, knowing what we know  
13    then, would we have gotten those things? It's easy, in  
14    retrospect, to say, oh, of course Google would have  
15    figured it out. But Google looked like billionaire  
16    geniuses now and it's not a given they would have been  
17    able to do all of this stuff.

18           So, we are starting to learn what we don't know  
19    and I think a lot of FTC work has been good at exploring  
20    that stuff. I think it's important to not try to define,  
21    clamp down, though I think definitions of harms is a  
22    productive area to go to.

23           MS. HARRINGTON-McBRIDE: Okay. Lee?

24           MR. PEELER: So, I think Jim is making some  
25    good points. Just addressing the point that you were

1 racing about, are we saying that all information is  
2 sensitive? I think another way of phrasing that is to  
3 say, particularly in the commercial context, that we're  
4 saying all information should be treated fairly, and I  
5 think one of the things the FTC has done a wonderful job  
6 in over the last several years is creating some real  
7 expectations that information will be handled securely,  
8 and that if you don't accord information the security  
9 that its type suggests it should have, that you will be  
10 dealt with rather roughly by the FTC.

11           There's a great program right now ongoing with  
12 the revisions of the privacy notices to make the privacy  
13 notices more accessible. The FTC has led an effort  
14 that's been embraced by industry in online advertising to  
15 try to pull a disclosure outside of the traditional  
16 privacy notices to indicate the presence of online  
17 targeting, you know, an effort that the industry's  
18 embraced. So, I think if you're on the commercial side,  
19 there's already a lot being done.

20           The last thing, though, that I think is really  
21 important in talking about sensitive information is the  
22 educational efforts that the FTC has pursued. I was  
23 thinking about this last night because my youngest  
24 daughter called me and said that she was looking for a  
25 job this summer and a potential employer had said, e-mail

1 me your social security number. So, you know, I said, e-  
2 mail them your address, but let's mail them your social  
3 security number, and we had this big debate about why  
4 that was or was not appropriate. But, clearly, you know,  
5 that suggests a need for continuing education on these  
6 sensitive data issues.

7 MS. HARRINGTON-McBRIDE: We'll go to Lior. And  
8 then, Pam, if you could each take just about a minute,  
9 we're very close to overtime.

10 MR. STRAHILEVITZ: So, I'll try and be pithy  
11 and say, in response to your question, if everything is  
12 sensitive, then nothing is sensitive. Hierarchies in law  
13 are extremely important, not so much for automated  
14 processes. Automated processes don't get tired, but  
15 humans do. And if humans are forced to treat everything  
16 as equally sensitive, then the financial privacy, sexual  
17 privacy, private health information that we care about so  
18 much will get inadequate protection.

19 Just a quick point I'd make maybe by way of  
20 support for that statement is actually that we can learn  
21 a lot by looking to the law of trade secrecy which is  
22 essentially corporate privacy. And the judges there have  
23 figured this out. So, firms that stamp proprietary trade  
24 secret on everything don't get trade secret protection  
25 because the judges say you're overusing that label

1 sensitivity and by abusing it, you're not really sending  
2 a signal to your employees, to outsiders that this is to  
3 be taken really seriously. So, I think what the FTC has  
4 to do, even though it's a tall order, is to figure out  
5 what the hierarchy should look like so that we make sure  
6 that people do take those crown jewels of private  
7 information as seriously as they ought to be taken.

8 MS. HARRINGTON-McBRIDE: Pam, last word.

9 MS. DIXON: My comment follows on that very  
10 much. I was going to say it's really easy to decide,  
11 there's either all or nothing in this area. Everything  
12 is sensitive or none is sensitive. And I do think the  
13 solution is hierarchy and stratification.

14 I think a good example of this, even though  
15 there was a health care panel, is to think about health  
16 information in a little more detail. So, for example,  
17 within health information exchanges that are being done  
18 digitally, one of the large conversations that's taking  
19 place at the state level in every state in this country  
20 right now is what data, within health information, is  
21 sensitive data.

22 So, for example, there's a broad consensus that  
23 reproductive data, genetic data and domestic violence  
24 data, among some other types of medical data, are a  
25 little more sensitive in the hierarchy of medical data.

1 So, I think that it is possible to pull out categories of  
2 data within a hierarchical structure and at least begin  
3 there.

4 MS. HARRINGTON-McBRIDE: All right. Well,  
5 Michelle, we present you with a full plate of problems.  
6 So, it's up to you to solve them.

7 MS. ROSENTHAL: You did such a great job, I'm  
8 thinking of leaving this all to you.

9 MS. HARRINGTON-McBRIDE: It's these guys, not  
10 me.

11 MS. ROSENTHAL: You all did such a great job.  
12 So, over the course of roundtable series, panels have  
13 suggested a number of principles that might apply to the  
14 collection and use and sharing of data that would afford  
15 greater protection to consumers. I would like to touch  
16 on some of those principles and discuss whether and how  
17 they should apply in the sensitive data context.

18 So, I'm going to get to the fun one first.  
19 Some have suggested that some data is so sensitive that  
20 its collection should be prohibited altogether. So,  
21 Kathryn, is there any type of data or any type of user  
22 where the collection of that data should be completely  
23 prohibited?

24 MS. MONTGOMERY: Well, I don't know if I'd  
25 exactly say just the collection of the data -- in some



1 ways, I'm really talking more about behavioral profiling.  
2 I think it has to be looked at within the marketing  
3 context. A coalition of children's groups has called for  
4 no behavioral profiling for children under the age of 18  
5 because of the special attributes of childhood and  
6 adolescence.

7 Now, saying that, I would not be talking about  
8 restricting access to information on the part of young  
9 people under the age of 18. I think we really have to  
10 look at ways to balance the autonomy and the freedom of  
11 young people to use digital technologies, which I think  
12 are wonderful, with some, I would say, restrictions on  
13 particularly what marketers do with their information.

14 Beyond that, I think, obviously, we need to  
15 ensure that young people understand what's happening on  
16 these various bases, particularly with social media  
17 marketing, where they are provided with new tools to set  
18 limits to their privacy and choose who their friends are  
19 and who has access to this and that, but they don't  
20 understand the entire apparatus of data collection and  
21 profiling that's taking place sort of behind the scenes  
22 there. So, I think we need to look at it. I'm not  
23 prepared necessarily to say this definitely, but I think  
24 it's an area that has to be looked at much more closely.

25 MS. ROSENTHAL: Okay. Lee, did you have

1 your --

2 MR. PEELER: So, again, we did work with  
3 Kathryn to come up with the existing COPPA format and  
4 regulations, and I think there's sort of two interesting  
5 learnings from that.

6 The first is that when the issue of industry  
7 self-regulation of online behavioral advertising came up,  
8 one of the issues was what do you do about behavioral  
9 profiling of kids, young kids, kids under 12? The  
10 response within the industry was that's a no-brainer. We  
11 have a COPPA framework, you would apply the COPPA  
12 framework to this area, even though the information  
13 doesn't meet the personally identifiable standards that  
14 currently exist in COPPA. So, the self-regulatory  
15 guidelines say, don't profile children under 12, under  
16 the COPPA standards, unless you have parental consent.  
17 It's not a prohibition because if the parents say it's  
18 okay to do this on this website after disclosure of  
19 what's happening, that should be fine.

20 But that's a good example, I think, of how, you  
21 know, again going back to first principles, there's a  
22 risk of harm to the kids and they are too young to deal  
23 with it. It makes it fairly easy on a going forward  
24 basis.

25 For kids, you know, 13 to 18, there's also some

1 interesting history, though. When we originally started  
2 the COPPA discussions, the proposal was to have COPPA  
3 extend to kids 17 and under, and that fell out of the  
4 debate. And it fell out of the debate largely because of  
5 concerns and uncertainty about just what Kathryn was  
6 talking about, what's the impact of that type of approach  
7 by the government on other pretty fundamental issues that  
8 involve what teenagers and tweens do and what their  
9 rights are and what their status in society is. And I  
10 don't think Kathryn is even suggesting that you would  
11 apply a COPPA model to young teens.

12 MS. MONTGOMERY: I'm not. Can I actually  
13 respond because I meant to say that?

14 MS. ROSENTHAL: Sure, go ahead.

15 MS. MONTGOMERY: It just didn't come out right.

16 MS. ROSENTHAL: Go ahead.

17 MS. MONTGOMERY: Because we dealt with this,  
18 Lee and I dealt with this. And I was really troubled by  
19 it. It was really challenging because the notion of  
20 getting parental permission, which, itself is a messy  
21 one. But I think the principle is what was important  
22 here and it has really helped to guide the development of  
23 the children's online marketplace.

24 But with teenagers, what I argued for was fair  
25 information practices directly for teenagers, which I

1 think is still important. Because what's happened --  
2 because COPPA only applied to under 13, 13 to 17 is  
3 absolutely fair game with some of the most manipulative  
4 and unfair practices you've ever seen just exploding and  
5 really taking advantage of young people's need to develop  
6 identity, to explore identity, to explore friendships, to  
7 share and not really know. And even since then -- not  
8 know the consequences. Since then, there has been more  
9 science that has looked at brain development in  
10 teenagers. And we know that -- and this is actually  
11 reflected in public policy.

12 Anybody who is the parent of a teenager who is  
13 getting a driver's license knows that you don't get them  
14 as easily and as quickly as you did in my day when you  
15 turned 16 because the brain doesn't develop fully until  
16 into the early 20s and there is a tendency to be more  
17 impulsive, not necessarily to think about the  
18 consequences of what you do. There are also other things  
19 taking place in their social relationships. All of those  
20 things have been built into the marketing apparatus and  
21 there really are no fair marketing principles in place  
22 now.

23 MS. ROSENTHAL: Okay. So, you're saying there  
24 should be a baseline of principles that should --

25 MS. MONTGOMERY: I do, and I think we need to

1 really look at that and develop some policies.

2 MS. ROSENTHAL: Okay, thanks, Kathryn. So,  
3 Jim, there's been a concern expressed, this sort of ex  
4 ante concern, which is maybe in COPPA, COPPA is sort  
5 of -- I believe the magic words in COPPA are websites  
6 directed to children or with actual knowledge that  
7 information about children is being collected. But what  
8 about in other contexts? Do you always know that data is  
9 sensitive at the point of collection and how would this  
10 affect certain business models?

11 MR. HARPER: Well, you don't know. That was  
12 going to be -- my answer to your prior question was, no,  
13 there's no data so sensitive that you can ex ante say  
14 that it shouldn't be collected.

15 In a lot of business models existing today and  
16 a lot of those to come, which we don't know about yet,  
17 you don't know, as the operator of a website or a  
18 service, how people are going to use it, what they're  
19 going to say on it, what they're going to publish on it,  
20 what they're going to hand over to you, and whether it's  
21 truthful or not. I think that's the dimension of this  
22 that maybe people haven't thought about as much as they  
23 should.

24 Users are in a position, and I think they  
25 should be in a position to mask their identities that

1       they present to you, to mask the information that they  
2       present to you. They may say they are something that  
3       they're not and they're trying to achieve anonymity,  
4       pseudonymity, obscurity along one dimension, and that  
5       indicates to you that they're in a group that you have to  
6       deal with differently.

7                So, it's a real a mess to try to administer  
8       systems based on categories of sensitive information or  
9       categories of sensitive users, though I agree that you  
10      have to look out for sensitive users. I think COPPA is  
11      an example where the intent is certainly there to protect  
12      children. Whether it does or not, I think there is some  
13      talk about balance that should be done.

14               MS. ROSENTHAL: Mm-hmm, thank you. Lee?

15               MR. PEELER: From a regulatory, which I used to  
16      do, and self-regulatory, which I do now, standpoint, the  
17      point that you're making which is whatever standards you  
18      have have to be sort of predictable up-front is really  
19      important. Because a lot of the concerns we've been  
20      talking about today are things that may subjectively  
21      affect individuals differently.

22               So, you know, one of the things that's going on  
23      right now in response to the FTC's call is that the self-  
24      regulatory groups that develop the online behavioral  
25      principles have committed to continuing to look at the

1 sensitive information categories to see if we can't come  
2 up with sort of objectively defined criteria in the  
3 health and financial information areas to sort of further  
4 refine our analysis there. And that same work is being  
5 done by the network advertising initiative and has been  
6 ongoing for some time.

7 So, there really is an effort. I mean, the  
8 industry really understands that there are certain areas  
9 of sensitive information that require a higher level of  
10 protection and is working very hard to try to objectify  
11 that.

12 MS. ROSENTHAL: Okay. So, Pam, if it's  
13 difficult to prohibit collection, are there certain uses  
14 that should be prohibited? So, for example -- and I'll  
15 use the behavioral advertising context since we're  
16 talking about it a little bit. The way that the  
17 information is transferred from your browser to various  
18 servers, it just automatically is collected in many  
19 contexts. The URL is automatically given my IP address,  
20 it automatically goes to the server. So, the question  
21 is, in that kind of context, should use be prohibited?

22 So, if I decide to go to a sensitive website,  
23 to a website about -- I'm not going to use myself here.  
24 If someone decides to go to a website about sexually  
25 transmitted diseases, should that information be able to

1 be collected -- okay, it might be collected right because  
2 it's transmitted. But should it be able to be used to  
3 behavioral target that person?

4 MS. DIXON: Okay, this is a good topic.  
5 There's a lot of meat here. So, I'll try to be just as  
6 brief as I can. I really wanted to talk, in this  
7 context, about self-regulation and prohibition on uses.  
8 One of the issues -- I think, yes. I think that  
9 sometimes there is inadvertent collection and collection  
10 that is inescapable, for lack of a better way of putting  
11 it. In that case, yeah, you should have data retention  
12 guidelines that are applicable, and I think that is  
13 incredibly helpful, and also, data use guidelines that  
14 are very, very specific and concrete and say, hey, look,  
15 if you have it, you don't get to use it because there are  
16 direct harms associated with this. So, I think we can be  
17 very clear on that.

18 But I think something that also really needs to  
19 be mentioned here is the role of self-regulation in  
20 determining these guidelines. Currently, the self-  
21 regulatory process that has been in place for both the  
22 network advertising initiative and the IAB guidelines,  
23 both of them, there has not been enough tension in that  
24 process and industry has gotten together and made a self-  
25 determination what constitutes sensitive. The problem is



1 is that there has not been a mandatory addition of the  
2 consumer viewpoint. So, therefore, the definitions of  
3 what constitutes sensitive in both the NAI guidelines and  
4 the IAB guidelines are really incredibly weak and I think  
5 improperly so.

6 So, if we're going to have any kind of self-  
7 regulation in the sensitive area space, there's got to be  
8 some kind of joint rule-making or some kind of negotiated  
9 rule-making, something where there is some honest tension  
10 between what consumers want and what industry wants.  
11 Because if industry sets guidelines for what constitutes  
12 sensitive information, we're going to have weak  
13 guidelines just because we need more tension in the  
14 process.

15 MS. ROSENTHAL: Okay, thanks, Pam. Jim, go  
16 ahead.

17 MR. HARPER: So, there's a venue where this  
18 kind of tension plays out, I think, regularly, and that's  
19 the marketplace where participants, like Pam Dixon and  
20 many other advocates, point out that certain products and  
21 services are -- plenty of people on this panel, in fact,  
22 point out that certain products and services have  
23 negative implications if you share information with them.  
24 Look at this bad actor, look at this bad actor. Do you  
25 know what they're doing?

1           That's a really important process. And the  
2 important thing, I think, to me is that it's granular.  
3 It allows individuals to make the decisions. Of course,  
4 they encounter error. But they also make decisions for  
5 themselves about what risks they want to take, what  
6 services they want to enjoy at what cost to privacy or  
7 consumption of personal information, that kind of thing.

8           I think it's a far superior process, even  
9 though we're all great intellects, I'll include everybody  
10 in the room. We're all great intellects, but we don't  
11 have what it takes to figure out the optimal design of  
12 our privacy systems going forward. That's going to be in  
13 the marketplace.

14           MS. ROSENTHAL: Okay. I think that's a good  
15 point. So, there are consumers, obviously, that want to  
16 share information in certain ways. So, that sort of gets  
17 to another principle which is -- we've talked about  
18 restricting collection or use. But what about  
19 restricting sharing with third parties? So, an example  
20 I'll give is, you know, if you are on a social networking  
21 site and you decide that you want to play a game, let's  
22 say Scrabbulous. Does the provider of that game really  
23 need to know my religion and my political affiliation?  
24 Does all of that information need to be sent? And so,  
25 should there be certain restrictions that sort of prevent

1 sensitive data from changing hands?

2 I'll note that in the B2B context, many  
3 companies have these types of contractual restrictions.  
4 You know, they say, okay, we're sharing this data with  
5 you for this purpose, but you can't then go and use it.  
6 So, should this be a principle that we should apply to  
7 sensitive data? Kathryn?

8 MS. MONTGOMERY: Yes, I think it should be. I  
9 also wanted to respond to what Jim said, though. And  
10 that is that, you know, having been an advocate for a  
11 number of years and spent a lot of my energy and time  
12 doing research and working with the press and filing  
13 comments to expose bad actors and bad practices, it's a  
14 hell of a lot of work and it's not a very good system.  
15 It is a good system to be able to work as an advocate to  
16 try to influence policy. What we can do with policy is  
17 to create a level playing field so that consumers have a  
18 set of expectations when they're operating online and  
19 businesses have a set of rules. Now, that can be done  
20 through self-regulation, as well. But there has to be  
21 accountability built into it.

22 I think, again, the COPPA model of self-  
23 regulation and government oversight and government  
24 regulation has worked well. Whether the actual  
25 mechanisms are perfect, we can talk about. But the idea

1 of a framework of government regulation that then  
2 operates with some rules of the game that have resulted  
3 from some consumer input, so that we can have clear  
4 expectations.

5 So, the other thing is, you know, who has seen  
6 a privacy policy lately and been able to decipher it?  
7 You know, you can't -- and the other thing is it's not a  
8 question of whether you're going to be able to negotiate  
9 with that website or with that service. It's take it or  
10 leave it, essentially. And a lot of these are services  
11 that we all need and they aren't exactly alternatives. I  
12 don't think the marketplace has worked.

13 MR. HARPER: Just in brief --

14 MS. ROSENTHAL: Parry. I want to give Parry a  
15 chance to answer. She's had her --

16 MR. HARPER: A brief response if I could.

17 MS. ROSENTHAL: Yes.

18 MR. HARPER: I don't want to diminish what  
19 Kathryn says, but that's exactly what an advocate would  
20 say about the system. It's never satisfactory.

21 MS. MONTGOMERY: And that's exactly what you  
22 would say.

23 MR. HARPER: Neither is it satisfactory to  
24 people on the other side. I'm an advocate and I'm  
25 dissatisfied with the Obama administration's privacy

1 practices, for example.

2 MS. ROSENTHAL: Thank you, Jim. Parry?

3 MS. AFTAB: I think as we start looking at this  
4 -- I'll make one brief comment on the advocacy role. I  
5 think that a good appearance on the "Today" show will  
6 change a lot of website practices pretty fast and  
7 sometimes better than our sitting in a room and  
8 negotiating for months with different people who are not  
9 doing what they're supposed to do.

10 But that said, I think that if we start looking  
11 at this third-party sharing, I think if it's an  
12 unexpected third-party sharing that we should be  
13 regulating that. And if it's the kind of thing that  
14 isn't open, it's not on your Facebook profile and open to  
15 the world because you're not using the privacy settings  
16 and anybody could have seen it, I think that that can be  
17 done. And when you look at the B2B environment, which  
18 you can turn around and say, I'll share information with  
19 you, but you can't share it with others, it's only for  
20 our purposes or this limited purpose that we do, that  
21 comes under expectations, everybody understands what it  
22 is.

23 But when it's something that's already  
24 available to everyone, it's hard to restrict it. So, I  
25 think, as we start trying to see if that could work,

1 we're going to have to be very granular. Is it  
2 information that's already covered and protected by  
3 privacy settings so that the person's locked it up? Is  
4 it the kind of thing that the person has restricted?  
5 Have they provided, in effect, expected consensual use by  
6 anybody who happens to see it? I think as we do that, we  
7 can come up with a solution that restricts the third-  
8 party use, as long as it's expected and defined and in  
9 the kind of thing that people would assume that it's not  
10 otherwise available just because I have the user access,  
11 a log in and password because that's how they're going to  
12 get on to my social game. I'm not going to be able to  
13 get in and see other things that they're posting that  
14 they're keeping private.

15 MS. ROSENTHAL: Right, okay. Anita?

16 MS. ALLEN: Well, I don't think that the  
17 average Jane or Joe consumer knows how their Toyota  
18 works, and they certainly don't know how the Internet and  
19 the web work. I think that we really need to have a very  
20 strong kind of consumer protection mentality when  
21 thinking about these issues of collection, use and  
22 sharing with third parties. And while, in some  
23 idealistic political world, maybe we would have a  
24 complete free market and let people just make their own  
25 contracts and their own bargains and do their own thing,

1 but I think there's so much complexity, so much technical  
2 complexity, so much hiding of information and  
3 unavailability of information and so much lack of freedom  
4 to truly bargain with website operators, for example,  
5 that we really need to have the government here playing a  
6 very strong role.

7 I think the FTC needs to play a very, very  
8 strong role in regulating the ways in which information  
9 is made available and not available. I don't think that  
10 we should be too reluctant to use coercive and even  
11 paternalistic measures at this stage of life. The  
12 Internet, the web, is too new for us to assume that  
13 people are capable of taking care of themselves when it  
14 comes to their online transactions. I personally welcome  
15 a bit of someone else kind of helping me through my  
16 financial and market transactions on the web, and I think  
17 that the FTC has a very important role here.

18 MS. ROSENTHAL: Thanks, Anita. What about --  
19 there's the principle of sort of minimizing data  
20 collection? So, I'm going to borrow an example from  
21 Jules Cohen from Microsoft earlier today where he sort of  
22 talked about, you know, you go to a bar. Does the bar  
23 really -- I show them my license and all they really need  
24 to see is my date of birth. They don't need to see my  
25 address. They don't need to see my license plate number.

1       So, I should be able to give only the amount of  
2       information that I need to give and that additional  
3       sensitive information or potentially sensitive  
4       information shouldn't be collected.

5               So, Lior, what kinds of harms would this type  
6       principle protect? Is this a good principle and would  
7       this protect against certain harms that we discussed in  
8       the first portion of the panel?

9               MR. STRAHILEVITZ: Well, in a lot of the web-  
10       based applications, the consumer has a variety of self-  
11       help options which turn out to be fairly effective. So,  
12       a colleague of mine on the faculty was in his office  
13       about two weeks ago and he's searching for a condominium  
14       in Chicago. I had turned him to a really nice real  
15       estate website that helps people find condominiums in  
16       Chicago, or houses, too, I suppose. In any event, he's  
17       searching for condos and gets a call on his phone. Oh, I  
18       see you're looking for two bedrooms in the blank blank  
19       neighborhood in Chicago. And he tells me this story and  
20       I said, you mean you gave them your real name and your  
21       real phone number?

22               So, part of what I think individuals do in  
23       these circumstances -- and this is a falsifiable  
24       hypothesis -- is they get around regulations they don't  
25       like by providing incorrect information. And I think



1 firms that are doing work in this area, tolerate very  
2 high levels of what we'll call consumer self-help on pro-  
3 privacy perspectives.

4           The other thing that happens, I think, through  
5 this sort of interaction is a consumer was very ticked  
6 off by what he viewed as an intrusive search into his own  
7 internet usage patterns and decided that next time he  
8 looks for a condo he'll use another website, which does  
9 suggest that these market forces can work, but only if  
10 the fact that there was a person who was scrutinizing  
11 what my colleague was searching for by way of real  
12 estate, only if that becomes transparent. So, it's the  
13 stupid firm that says, I see that you're looking for  
14 condos in this and this neighborhood. And the danger is  
15 when that monitoring can be both surreptitious and  
16 potentially threatening or harmful to the consumer in  
17 some ways.

18           But having said that, I think the popularity of  
19 self-help through allowing consumers to provide  
20 inaccurate information or only partially revealing  
21 information about themselves does suggest that there's a  
22 fix here, and one interesting legal question is, how  
23 should we regard my decision to enter Donald Duck as my  
24 user name. Is that a breach of contract? It might well  
25 be under the terms of service. Or is it something that I

1 would be empowered to do as a way of opting in to a  
2 privacy arrangement that's more protective than the ones  
3 that the firm on the other end of the transaction seems  
4 to be offering me? If they tolerate me as Donald Duck  
5 and nobody ever calls me on it and I'm allowed to  
6 continue using the service, should we regard as me having  
7 amended the contract and them having agreed to it by  
8 continuing to provide me a service? That actually  
9 strikes me as a very interesting legal question on which  
10 there's good thinking to be done.

11 MS. ROSENTHAL: Thank you, Lior.

12 I'm mindful of the time. We have about 15  
13 minutes and I would not want to take up anybody's break  
14 time. So, I'm going to try to quickly get to some of  
15 these very important principles. What about limiting  
16 data retention, Parry, what kind of harms would that  
17 prevent?

18 MS. AFTAB: Well, I think limiting data  
19 retention is a little bit what you were talking about at  
20 the bar.

21 MS. ROSENTHAL: Right.

22 MS. AFTAB: When we started looking at  
23 pornography and whether or not you could require someone  
24 to prove that they were over the age of 18 to be able to  
25 see certain pornographic images. It was thrown out

1 because we said you might have to flash your driver's  
2 license to show that you're 18 so you can buy a magazine,  
3 but if you're flashing it online, somebody is collecting  
4 it. Then once it's collected, it's being used. And I  
5 think they really come together.

6 So, I think that as we're looking at data  
7 retention, it could be it expires after a certain time,  
8 after the right use. It could be that it's tagged and  
9 watermarked in effect so it can only be used for certain  
10 purposes as it moves. And it could be that it comes  
11 through authentication and smart card type of technology  
12 that it contains the information, all they're doing is  
13 authenticating somebody's 18, somebody is 13 and capable  
14 of COPPA communication, somebody can have this  
15 communication without the sites actually having the real  
16 information. They're just having the authenticated fact  
17 that somebody's met a threshold. So, I think it works  
18 that way.

19 MS. ROSENTHAL: Okay. And should it only apply  
20 to sensitive data or should that be the type of principle  
21 that applies across the board?

22 MS. AFTAB: You know, I really think that if we  
23 start applying it across the board on things that could  
24 be sensitive under certain circumstances, and if we can  
25 get enough people to adopt it, I think it works. I think

1 it's finding trustworthy providers, so the companies  
2 providing those smart cards or authenticated services,  
3 you know that they're not going to have the data bleeds  
4 and they're not going to have -- you know, they're going  
5 to have adequate security and the right rules in place  
6 to govern it. But I think if you do that, it might be  
7 an answer to a whole bunch of the harms that we've  
8 identified.

9 MS. ROSENTHAL: Great. Okay, thanks. So, we  
10 talked a lot, I think, in this panel about subjectivity  
11 and what's sensitive to me may not be sensitive to Katie  
12 or vice versa. What about the principle of access?  
13 Would access prevent sort of that concern because it  
14 would allow consumers to -- and, of course, we have to  
15 talk about what access would look like. And I know there  
16 are a lot of feasibility issues and operational issues  
17 and things that would need to be discussed. But if I can  
18 access the type of data that a company has about me, and  
19 either edit it or suppress it if it's incorrect, would  
20 that prevent against or at least mitigate certain harms,  
21 especially some of the harms that are less concrete? So,  
22 you know, the dignitary harm or reputational harm. Pam?

23 MS. DIXON: Yeah, I think the access model,  
24 especially if you look at the Fair Credit Reporting Act  
25 model and how that works with credit bureau reports. I

1 think it's a very, very good model to look at and I think  
2 it's a challenging model to scale to a broad Internet  
3 kind of site issue, but I don't think it's impossible. I  
4 think certain principles could be extracted and applied.  
5 I think it's a very helpful way of thinking about it. I  
6 think that something else along these lines that I'm  
7 thinking about. Just to follow in the last conversation,  
8 identity management I think is going to be a real issue  
9 when it comes to sensitive data in certain categories.  
10 Financial and medical come to mind because you have to  
11 authenticate the person, then you have this authenticated  
12 information laying around.

13 I think that we should not minimize how  
14 incredibly sensitive that information is, in and of  
15 itself, as a category. From this morning's panel on  
16 identity management, I think we need to look at identity  
17 management as a coming, very significant issue that's  
18 going to need a lot of thought and attention and may be  
19 itself considered its own category of sensitive  
20 information.

21 MS. ROSENTHAL: Thanks, Pam. So, Lee, is there  
22 a cost to access -- you know, what end kind of cost is  
23 associated with access and can we really expect small  
24 companies to engage in this type of practice?

25 MR. PEELER: I mean, that's exactly right. I

1 mean, unless you're set up to provide access there could  
2 be very significant cost in providing access. And also,  
3 you could increase the privacy harms. Much of the  
4 information that companies retain now is in machine-  
5 readable form and translating it in a format that a  
6 consumer could actually get it and understand it would  
7 entail making it more vulnerable to start with.

8           And then anybody that's been through the credit  
9 bureau report disclosure process knows that just  
10 verifying that you are who you say you are, in light of  
11 the very significant threats of identity theft, requires  
12 you to disclose a significant amount of information, in  
13 and of itself. And if you don't get that balance right,  
14 you could end up disclosing sensitive personal  
15 information to someone who's not entitled to it. So, I  
16 think you need to be sort of wary of these broad one-size  
17 approaches.

18           MS. ROSENTHAL: Thank you. Thanks, Lee. So,  
19 I'm going to move on. This next question is for Anita.  
20 The principle -- I think the most common is sort of the  
21 principle of transparency. It's one that we embraced in  
22 the behavioral advertising principles in the report and  
23 sort of the idea of notice and consumer control and sort  
24 of making sure that consumers really understand what's  
25 happening. But, Pam, you know, the question is, can

1 notice truly convey the nuances of the various business  
2 models and some of the long-term consequences. So, maybe  
3 there's not a harm that's going to occur tomorrow, but  
4 maybe it will happen over time and specifically some of  
5 the harms that may accrue as data is aggregated.

6 MS. ALLEN: Pam or Anita?

7 MS. ROSENTHAL: Did I say Pam? I meant Anita  
8 and I said Pam. Apologies. You're sitting right next to  
9 each other.

10 MS. ALLEN: Well, transparency is great for  
11 consumers if they can then use the knowledge they acquire  
12 through genuine transparency to affect change in their  
13 life and protect their interest. I mean, one problem is  
14 that transparency without some sort of entitlement or  
15 privilege or right to do something about what one  
16 discovers is not very helpful, much in the same way that  
17 access without the capacity to actually change is not  
18 very useful.

19 I can recall once getting my credit report and  
20 discovering that my name was not Anita, but Danita.  
21 Every bit of financial data was absolutely accurate, but  
22 my name was wrong. Even after I sent my passport and my  
23 driver's license, it took me a year to get my name  
24 changed from Danita to Anita. So, access without the  
25 power to correct is not very good. Transparency without

1 the power to then affect the institutions and practices  
2 and information to make things right is not going to be  
3 any good either.

4 MS. ROSENTHAL: Lior, based on all of these  
5 principles that we're discussing, do we really need  
6 notice? Do we need to give all of this information to  
7 consumers? If we had sort of a baseline, sort of a level  
8 of protection in various principles that we think are  
9 actually protecting consumers, do we need to provide  
10 notice about every specific piece of data that's  
11 collected and used?

12 MR. STRAHILEVITZ: Well, not if you phrase it  
13 that way.

14 MS. ROSENTHAL: So, we just need really good  
15 protection?

16 MR. STRAHILEVITZ: Well, here's what I think we  
17 need to do. So, with any consumer good, you're going to  
18 see bundling of various services into categories. So,  
19 people don't buy cars a la carte. They purchase the  
20 premium package or the premium plus package or the fat  
21 cat package or what have you.

22 I think this bundling, in terms of privacy law,  
23 can be very helpful to consumers. So, if you think about  
24 let's say what Microsoft does with respect to its  
25 software, you can opt for a high security, medium



1 security, low security. That's a useful way to think  
2 about meaningful choice to consumers.

3           What I think the law needs to do, though, is  
4 make sure that high security really is meaningfully more  
5 protective than medium security and that low security is  
6 meaningfully less protective than medium security. I  
7 think sometimes, because consumers latch on to labels and  
8 short descriptions, much more than they are likely to  
9 latch on to details or have time to read the details, we  
10 can actually make a tremendous amount of progress with  
11 these short descriptions and then the law's role is  
12 simply to make sure that the terms actually match the  
13 abbreviated descriptors for the substance of what the  
14 consumers are buying when they're agreeing to a  
15 particular service.

16           MS. ROSENTHAL: Thanks, thanks. What about in  
17 the consent? Pam, you know, the argument has been made  
18 that if you were to require something like an opt-in for  
19 sensitive data that, A, it would ruin certain business  
20 models. It would actually prevent them from doing  
21 business the way that they do it. But also that  
22 consumers are going to opt in. That if you give them the  
23 right incentive that they will opt in without truly  
24 understanding what they're opting into.

25           MS. DIXON: Yeah. I think consent is a really

1 challenging issue. Consent really isn't a 100 percent  
2 solution for sensitive data because it can be  
3 manipulated. It has to be done very, very carefully.  
4 So, that would be my answer there. It can be done, but  
5 it has to be done very carefully and cautiously. In  
6 terms of notice, I do think that notice is very  
7 important. We need a public dialogue about this data.  
8 And too often, consumers do not have enough information  
9 for the dialogue.

10 MS. ROSENTHAL: Thanks, Pam. Jim?

11 MR. HARPER: I would just say on both these  
12 ideas, transparency and consent, they're both great  
13 ideals. I think transparency is essential. It's not  
14 essential for each individual user of a service to take  
15 advantage of the transparency immediately. We have an  
16 Internet-y problem here and it needs to be solved in an  
17 Internet-y way.

18 MS. ROSENTHAL: Did the court reporter get  
19 that?

20 MR. HARPER: Internet-y. It's a new adjective,  
21 I didn't come up with it.

22 But a broad, diverse, moving, changing  
23 community will make decisions about what's appropriate to  
24 do, about what services are appropriate to use. It's a  
25 distributed process and consumers are very well

1 positioned, thanks to the Internet, which is a  
2 communications medium to learn about this stuff. Many  
3 don't. We're never going to be satisfied that everybody  
4 knows enough, especially those of us in the room. We're  
5 never going to be satisfied that people are intellectual  
6 enough about their privacy decisions. But collectively  
7 overall they'll do a better job of figuring stuff out  
8 with the help of their peers, their colleagues. I'm  
9 proud of the fact that my dad told me to use Amazon the  
10 first time. That was because he'd gotten advice from  
11 others that this was pretty cool. So, I went ahead and  
12 used it. That's why I used Amazon, not because I read  
13 their privacy policy or investigated Amazon. The  
14 collective mind had investigated Amazon and gave it their  
15 stamp of approval.

16 MS. ROSENTHAL: Thanks, Jim. So, Parry, what  
17 about security? Commissioner Harbour mentioned this  
18 morning, sort of using SSL for email. I think that sort  
19 of raises a good point, which is we talk about -- I  
20 talked with Jim about the ex ante concern, which is you  
21 don't always know that it's sensitive before you collect  
22 it. But I guess we could probably all agree that your  
23 email contains some sensitive information. Certainly,  
24 those that don't have Lee as our father might include  
25 information that might be deemed sensitive, perhaps

1 Social Security numbers or information about your medical  
2 information and what have you.

3 So, would this address sensitive data -- should  
4 we expect -- you know, should e-mail providers use this  
5 type of encryption just because they know that the odds  
6 are there is sensitive data included in email?

7 MS. AFTAB: No.

8 MS. ROSENTHAL: No?

9 MS. AFTAB: I think that it's less about what  
10 you're sending by e-mail and more about what happens to  
11 it once the data arrives.

12 MS. ROSENTHAL: Okay.

13 MS. AFTAB: So, you see a lot of issues where  
14 people have access to it and people have no idea who they  
15 are. There's no background checks. So, people have  
16 access to the data. They have no control over the  
17 computers. Maybe somebody is doing it remote. You've  
18 got moderation staff who are working remote or in other  
19 countries and nobody knows who they are and where the  
20 computers are and who else they may be working for and  
21 confusing it with. So, I think it's a lot less about the  
22 channel of e-mail and what's being sent and a heck of a  
23 lot more about training practices, processes, policies,  
24 good old-fashioned data hygiene when it arrives.

25 MS. ROSENTHAL: Thanks, Parry. So, we have

1 about two minutes left. So, I'm going to get to the  
2 final question. During the first half of the panel, we  
3 discussed the considerable challenges associated with  
4 defining sensitive data and the concern, of course, that  
5 if we label everything sensitive that nothing is truly  
6 sensitive. So, recognizing that, we also discussed a  
7 number of principles that should be applied to the  
8 treatment of sensitive data. And some of you suggested  
9 that a number of these principles might apply to all data  
10 despite whether it's considered sensitive.

11 So, let's get to Lee's point which is something  
12 that he mentioned earlier which is, is there some  
13 baseline level of protection for all data that would  
14 obviate the need for special treatment? Should we just  
15 be applying these principles across the board and feel  
16 that the then sensitive data will be okay, that we  
17 shouldn't be concerned about sensitive data because there  
18 are certain principles that would apply to all data.

19 Pam? Pam and then Kathryn.

20 MS. DIXON: Yeah, I don't think we get to go  
21 there in the sectoral society that we have running here.  
22 I think that certainly one can look at Europe and say,  
23 you know, the omnibus style of protection is a model that  
24 could be very seriously considered. But the reality in  
25 this country is I don't know how we could institute that

1 at this point in an easy fashion. Maybe it will happen  
2 someday, but it isn't here today. So, let me just speak  
3 about today. I think that today in our sectoral system,  
4 I do think that we need some kind of sensitive data  
5 protection. I think we're going to have to work very  
6 hard to create hierarchies that make sense and I think  
7 it's going to be very difficult to find one single  
8 standard and say, okay, absolutely, everyone on the  
9 Internet and the health care sector and the financial  
10 sector, you all meet the same standard for all data. I  
11 just don't think it will happen.

12 MS. ROSENTHAL: Thanks. Kathryn?

13 MS. MONTGOMERY: I think we've got a very  
14 challenging situation as I look here at the principles of  
15 data minimization and rules about data retention and  
16 access and transparency. I think we have the opposite  
17 system that's emerged in the digital marketing  
18 infrastructure. It is all about data maximization. It  
19 is not at all transparent. There are many, many, many  
20 forces at work that are going in that direction, and at  
21 the same time, I think we should think about the goal of  
22 a broad set of rules that will mitigate some of these  
23 very strong forces.

24 But I don't think it's either/or. I think we  
25 should seek that, push for that. But I think we also

1 should be developing, and it's probably going to be a  
2 little bit more manageable, even though it's going to be  
3 complex and we haven't resolved it all, some ways of  
4 addressing these sensitive issues and sensitive  
5 information. I think that can be done. We're not going  
6 to solve it all today, but I would urge the Commission to  
7 pursue that.

8 MS. ROSENTHAL: Thanks, Kathryn. Jim, you get  
9 the last word.

10 MR. HARPER: Well, thank you very much. I'll  
11 be brief. If there's a baseline --

12 MS. ROSENTHAL: Oh, I'm sorry, I didn't see  
13 Anita.

14 MR. HARPER: Second to last word.

15 MS. ROSENTHAL: Yeah, second to last word.

16 MR. HARPER: Because this is a real zinger.

17 MS. ROSENTHAL: I know, I'm sorry. You want  
18 Anita to go first?

19 MR. HARPER: No, unless Anita had -- if  
20 there's a baseline rule that should apply to all  
21 collectors and holders of data, it is that they should be  
22 subject to the rule of law. And I speak especially of  
23 the United States Government, which essentially steals  
24 data and it has not seen any sanction as of yet. Zinger.  
25 I told you.

1 MS. ROSENTHAL: Wow, that's a zinger. So,  
2 Anita, you got to top that.

3 MS. ALLEN: I am so glad we're not stopping  
4 there.

5 (Laughter.)

6 MS. ALLEN: Sensitive data is not a plutonic  
7 essence. But I think we need to keep using the concept.  
8 It's a rule of thumb. It's a heuristic device for  
9 helping us to remember that there are important social  
10 values that we incorporate in our data practices.

11 MS. ROSENTHAL: Thank you, Anita. We have to  
12 end.

13 MS. AFTAB: Just one comment.

14 MS. ROSENTHAL: Yes.

15 MS. AFTAB: Yes. I think that, two things, A,  
16 privacy and respecting users is good for business. We  
17 need to remember that. But the most important thing is,  
18 the two of you have done a remarkable job.

19 MS. ROSENTHAL: I'm glad I let you go, Parry.

20 MS. AFTAB: But throughout this entire process,  
21 how you worked with all of us, how you pulled us  
22 together, it's like herding cats. You made sense of  
23 this. You basically kept to time. But I think that you  
24 two are amazing people who really brought this whole  
25 thing forward today. So, thank you.



1 MS. ROSENTHAL: Thank you.

2 MS. HARRINGTON-McBRIDE: Just for the General  
3 Counsel folks who may be in the office, I just want you  
4 to know that this was not a paid endorsement.

5 MS. ROSENTHAL: We did not pay her.

6 MS. HARRINGTON-McBRIDE: We don't want any sort  
7 of concerns arising.

8 MS. ROSENTHAL: Thank you. You all have been  
9 wonderful and we really appreciate all of your work.  
10 Thank you.

11 (Applause.)

12 (Panel 3 was concluded.)

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25 PANEL 4: LESSONS LEARNED AND LOOKING FORWARD

1           MS. MITHAL: Okay. Well, thanks, everybody.  
2       We are now in the home stretch, the final panel and the  
3       final roundtable that the FTC has been hosting over the  
4       last several months. Those of you who have stuck it out  
5       will not be disappointed. We have a very distinguished  
6       group of panelists with us. And let me just introduce  
7       them down the line.

8           We have Paula Bruening from the Center for  
9       Information Policy Leadership. We have Fred Cate from  
10      Indiana University School of Law. We have David Hoffman  
11      from Intel; Chris Hoofnagle from Berkeley; Richard  
12      Purcell with the Corporate Privacy Group. We have  
13      Jennifer Stoddart, the Canadian Privacy Commissioner, and  
14      we also have John Verdi. John is filling in for Marc  
15      Rotenberg who was called to testify before Congress. So,  
16      John is a last-minute replacement and I'm sure he'll do a  
17      great job.

18           So, before we get started with the substance of  
19      the panel, I thought I would just start with some opening  
20      notes. First, the title of this panel is lessons learned  
21      and the way forward. So, the way we'll do this is we'll  
22      be picking out nuggets of things that we've learned at  
23      the prior roundtables and we'll be exploring them and  
24      talk not about challenges, but mostly about the way  
25      forward and ways we can address the challenges that have

1     been raised. So, I urge the panelists to kind of look  
2     forward and talk about the future a little bit.

3             Second, we have a lot to cover in this hour and  
4     a half. So, I'd ask the panelists to keep their remarks  
5     brief and to the point. And, finally, since we have a  
6     lot to cover, I just want to be clear that the issue of  
7     government collection and use of data is a really broad  
8     one and that's something that we won't be covering today.  
9     So, if you could keep your comments restricted to  
10    commercial collection and use of data, I think we'll be  
11    able to get through the material that we have.

12            So, with that, let me just start with the first  
13    question. We've heard a lot today, and in prior days,  
14    about the distinction between personally identifiable  
15    information and non-PII, how it's been increasingly  
16    blurred. And I want to throw the first question out to  
17    Richard Purcell and ask him, is this PII distinction  
18    still viable? Is this something that we should continue  
19    to use in our vocabulary as we talk about data collection  
20    practices?

21            MR. PURCELL: Thank you. Personal data has  
22    become ubiquitous in all of our society. I was speaking  
23    with Dana Boyd, a Microsoft researcher, who was referred  
24    to earlier as well. She had a really interesting  
25    comment. Her observation is that decades ago, not that

1 many decades ago, what was easy was being private and  
2 what was difficult was being public. In today's world,  
3 that's reversed. It's overly easy now to be public and  
4 very difficult to be private.

5 One of the things we've discovered is that all  
6 data has personal implications. If it can be linked to a  
7 person, not only can it be, it will be with some  
8 inevitability. I believe that any bit of data about an  
9 individual deserves the kinds of protections that we  
10 currently reserve for personally identifiable data  
11 largely because, inexorably, maybe not today, I'm sure  
12 somebody could make a big argument that would say, no,  
13 no, no, we can actually have non-PII. It's going away.  
14 That distinction will no longer be relevant in our  
15 future.

16 Since that is a case that I think we can all  
17 commonly agree on, that at least in the near term,  
18 sometime in the short-term future, all personal data will  
19 ultimately become identifiable or attached to an  
20 individual, that all data about people needs to have  
21 protections, needs to have consideration, needs to be  
22 protected in some way or other.

23 It would be -- it's a little bit like  
24 confidential data at a business. If it's about the  
25 business, there is a chance that it needs some kind of

1 discretion, exercised around it, period, end of story.  
2 If it's about intellectual property, if it's about  
3 processes, any of that, what we call maybe trade secrets,  
4 then it needs to have protection and discretion has to be  
5 applied. If it's about a person, at the very least, we  
6 have to be discreet about how we use it. So, for the  
7 future, I think yeah, there is no such thing as non-PII.  
8 It just should not be treated differentially. It's all  
9 roped together.

10 MS. MITHAL: Commissioner Stoddart?

11 COMMISSIONER STODDART: Thanks. Yes, amazingly  
12 enough, in Canada, we never made that distinction. We  
13 just talked about personal information. Then some of our  
14 American colleagues started talking about PI and PII and  
15 we had to say, well, what is that? Kind of try and munch  
16 that one over.

17 But what we do in Canada -- first of all, I  
18 think the work of people like Latanya Sweeney was  
19 carefully studied and the lessons have made a big impact  
20 on Canada, even about ten years ago. So, we avoided  
21 going to a very tight distinction between the two. And  
22 then generally in Canada, we use concepts like  
23 proportionality, context, how the law is applied, what  
24 the outcomes are to be, to modify whatever the principle  
25 is. So, I'd just like to tell you what our own federal

1 court said recently, almost paraphrasing Richard, in a  
2 case where we proposed this test and it was adopted.

3 "Information will be about an identifiable  
4 individual where there is a serious possibility that an  
5 individual could be identified through the use of that  
6 information alone or in combination with other available  
7 information." The information that was being contested  
8 in that case, it was about drug trials and government-  
9 held information on drug trials. The particular piece of  
10 information that was withheld was the province. The  
11 province is not personally identifiable information, in  
12 itself, probably, but combined with everything else would  
13 have let the media learn about who had died in a drug  
14 trial. And so, in that case, it was adopted. So, that's  
15 how we approached it. Everything is potentially  
16 personally identifiable information.

17 MS. MITHAL: Well, let me ask a follow-up  
18 question and then I'll get to David and Fred. So,  
19 suppose a company says to consumers, we collect your  
20 information and share it with third parties on an  
21 anonymous or aggregate basis. Given what you all have  
22 just said, does that create a false sense of security for  
23 consumers?

24 So, I'll call on David and Fred, and if anybody  
25 wants to answer that question or address something that's

1       been said before.

2               MR. HOFFMAN: I think the answer to that is it  
3 depends. I think there are ways to anonymise data or de-  
4 identify data, but depending on how that data is then  
5 going to be used and whether it's combined with other  
6 data, could potentially have it relate to an identifiable  
7 individual in the future. I think the debate over is it  
8 personal data or non-personal data, is it PII or is it  
9 non-PII, is something that we have spent a tremendous  
10 amount of time, as a privacy community, debating for  
11 maybe the past five years especially, and I think it's  
12 largely been an unproductive debate.

13               I think most of the place where the debate has  
14 happened has been in Europe on the definition of what's  
15 personal data in Europe, particularly with respect to IP  
16 addresses. IP addresses I find to be interesting,  
17 particularly for the company that I work for, because  
18 what an IP address really is is it is an identifier, and  
19 most often, a unique identifier at least for a period of  
20 time that's stored in hardware or software. Well,  
21 there's actually a great number of instances of similar  
22 identifiers.

23               So, I think the question -- you know, under the  
24 implementing legislation of the 9546 directive, what's  
25 interesting in Europe is the definition of what's

1 personal data. What's something that can relate to an  
2 identifiable individual and things that could likely  
3 reasonably relate to an identifiable individual, when  
4 combined with other data in the future. I think it's  
5 fairly easy to see that many of these identifiers that  
6 could occur in hardware and software could potentially  
7 fit into that category.

8           So, the question is then, so what? I think --  
9 and this is what I think is really important to be  
10 learned from that debate, which is that the reason why so  
11 many organizations and entities needed to come forward  
12 and to try to fight that was because the restrictions  
13 that would be imposed upon them then if a certain  
14 category fell under the definition of personal data,  
15 under some of the nation states implementing legislation  
16 of that directive was deemed to be very burdensome. I'm  
17 not saying whether I think it was or not. I'm saying  
18 that it clearly was by others.

19           So, for example, people make the argument that  
20 under the UK law, the existing UK law, that if something  
21 falls under the definition of personal data, then an  
22 individual has a right to get absolute access to all of  
23 the processing of that. If you think about that in the  
24 terms of a unique identifier and hardware or software, it  
25 may actually be extremely difficult, if not impossible,



1 to actually even be able to provide that to an  
2 individual. And even whether -- if it is possible.  
3 you'd have to ask the question, well, does it really make  
4 sense for them to know all of the logs everywhere, where  
5 every IP address is that could relate to them and how are  
6 we going to authenticate that individual to come back to  
7 see if it really does apply.

8 So, once again, I think what this really comes  
9 back to is these definitions make a lot of sense if we  
10 have flexible, normative standards that are applied on  
11 top of them that really make sense for the degree of  
12 protection that's necessary for that type of data, which  
13 I think is something that Richard and Jennifer were both  
14 talking about and I wholeheartedly agree with.

15 MS. MITHAL: Fred, I'm going to give you the  
16 last word on this and then we'll move on to the next  
17 topic.

18 MR. CATE: Thank you very much. I would  
19 certainly echo the point on proportionality and just say  
20 I think we might add to that the notion of contextuality  
21 because you would have to say PII for what reason. So,  
22 for example, our Freedom of Information Act exempts  
23 certain data that might be thought to threaten privacy.  
24 Well, if we said all data concerned was personally  
25 identifiable, we might exclude all data from that, or

1 access. The example's already been given. If we apply  
2 access to all data that we think could be used to  
3 identify you, we would then make access meaningless.

4 So, instead, I think this notion of  
5 proportionality applied in context and I think maybe the  
6 best example there -- and it's one in an area already  
7 been touched on today -- is in the area of health  
8 information. So, for example, for years companies that  
9 do health research dealt with what we would call  
10 anonymised data, meaning they knew exactly who they were  
11 dealing with, but they were required by the FDA to screen  
12 that identity behind a number and that number could not  
13 be applied to de-identify the data under threat of  
14 federal penalty, except in certain circumstances.

15 So, most of us would refer to that as de-  
16 identified data. Yet, of course, technically Latanya  
17 Sweeney would tell us that is fully identifiable data.  
18 The point is irrelevant. In other words, it's a question  
19 that I suspect has no meaning any longer, rather we come  
20 back to this question of what is the broader context and  
21 what is the proportional response to whatever we come up  
22 with out of that.

23 MS. MITHAL: Okay, thank you, Fred. I'd now  
24 like to move on to transparency. We've talked a lot  
25 about notice and choice at these workshops. Actually,

1 they've probably been fairly vilified, the idea of long  
2 privacy notices that consumers can't understand, that  
3 they don't read, and if they read them, they can't  
4 understand them. But I would like to direct this  
5 question to Fred. Is there a continued role for notice,  
6 and if so, how can we make notice meaningful?

7 MR. CATE: This is so hard. Let's face it, I  
8 mean, notice and choice have not only being vilified,  
9 somehow they manage to continue to survive. I was going  
10 back looking at the record. Every chair of the Federal  
11 Trade Commission since Chairman Muris has expressed  
12 dissatisfaction with notice. Yet they seem to hang on.  
13 I mean, like what do you have to do to kill something  
14 around here?

15 (Laughter.)

16 MR. CATE: They keep coming back. At the  
17 beginning of the last of these three roundtables, David  
18 Vladeck began by saying, there's still an important role  
19 for notice and choice. And I find myself scratching my  
20 head saying, what is that role? So, I guess there is  
21 some role left for notice. But what is that role is, I  
22 think, a very hard question.

23 So, I would say one of the things that many  
24 advocates point to notice for is it tells the rest of us,  
25 just the few of us in this room, nobody else outside

1     could care less about what we're talking about. But  
2     those of us who do, it tells us what companies and  
3     government agencies are up to. So, in that sense, if we  
4     just mean transparency or regulatory filing, like you  
5     have to tell the FTC what's your privacy policy, yes, I  
6     think that is a continuing valid role for notice.

7             Another area where notice, I think, has clear  
8     continuing validity is where there is a meaningful choice  
9     for an individual data subject to make. So, if you're  
10    actually going to ask me, do you want your data used and  
11    point this way or that way, you got to tell me. You got  
12    to give me the notice or else that is a completely  
13    pointless illusion of a choice. So, in that one  
14    instance, individual notice might make sense.

15            And then a third rule for notice, although I  
16    would never use the word notice for this ever, but just  
17    because somebody else might and I don't want to feel like  
18    I've left something critical out, I think there's an  
19    educational role for notice. So, again, I would not call  
20    this notice. But, again, let's face it, most people are  
21    not interested about being educated about how their  
22    computer collects data about them or how business  
23    collects data about them in the environment. But for  
24    those people who are or in those settings where we really  
25    think it's important that there be education, notice of

1 some form probably plays some role in that education.  
2 Those would be my three suggestions where notice would  
3 remain valid.

4 MS. MITHAL: Okay. Reactions, John and then  
5 Chris?

6 MR. VERDI: Sure, yes. I would agree with the  
7 widespread derision regarding notice and the notice and  
8 choice model. I think that what we really have at this  
9 stage is an understanding that control and access and  
10 meaningful and effective privacy safeguards are what  
11 consumers expect. They're what good businesses provide  
12 and they are something that needs to be required. And  
13 I'll just tell a brief story about one of the more recent  
14 failures of notice, you know, and notice and choice.

15 There's a company out there called Echometrics  
16 which publishes a piece of software that parents can  
17 purchase and download and limit the access of their  
18 children when their children surf the web. It's safe  
19 surfing software, right? And this company also has a  
20 sideline in selling all of the data about the children  
21 that it's "protecting" to marketers so it can profile  
22 them without telling the parents.

23 But here's the issue. We ran into this issue,  
24 and the issue was brought to the attention of the  
25 Department of Defense. And it was brought to the

1 attention of Department of Defense because the DoD had  
2 agreed to sell the software to military families at a  
3 discount. So, you could get your Spyware cheaper. And  
4 what we found out was, once the DoD became aware of this  
5 situation, they began making inquiries with the company  
6 and they said to the company, why are you doing this?  
7 This is inconsistent with our principles, this is  
8 inconsistent with fair information practices, et cetera,  
9 et cetera, et cetera. And the company said, well,  
10 there's this check box and you can check this check box.  
11 And it's buried a little, but it's in there somewhere.  
12 And you can opt out of all of this data collection.

13 And the DoD responded by saying, we only permit  
14 personal information to be collected in order to improve  
15 the quality of the service. You've purchased product,  
16 we're going to collect personal information to improve  
17 the quality of service. Fine, fair enough, everybody can  
18 get on board for that. Just by giving someone notice and  
19 the choice not to check the box, that isn't good enough.

20 So, I think that that's sort of a common sense  
21 principle that we see in real life. You know, you drop  
22 your car off at the gas station for service and they  
23 drive it around if they need to to figure out where the  
24 rattle is and they replace some parts and they take some  
25 things apart and, hopefully, they put it back together

1 and all that fun stuff. But if they decide they're going  
2 to take it to Florida and then they're going to drive it  
3 back, you know, I mean they explicitly didn't prohibit  
4 that when you entered into that agreement, but there's  
5 sort of a common sense understanding. They're going to  
6 do what needs to be done to provide the service. And I  
7 think data collectors need to be doing that as well.  
8 Notice and choice doesn't allow you to collect data and  
9 use data and transmit data and share data and disclose  
10 data in ways that are wholly unrelated to the service and  
11 not beneficial to the consumer.

12 MS. MITHAL: Chris?

13 MR. HOOFNAGLE: I would agree with everything  
14 Fred said and go on to say that we need to -- if we are  
15 going to pursue notice as a solution, I think we need to  
16 change the incentive structure in the notice format.  
17 I've just noted that every time that I go online to pay  
18 my telephone bill, it interrupts the payment process to  
19 ask me if I want to go paperless. Every single time.  
20 And that is so important to them that they're willing to  
21 interrupt the payment process. I'm about to give them  
22 money and they say, oh, before you give us money, we'd  
23 like you to go paperless.

24 The other kind of example that I would bring up  
25 comes from Chase Bank. They wrote a notice concerning

1 overdraft fees, if you want to opt in to overdraft fees.  
2 And the notice that they wrote reads, "if you do not  
3 contact us, your everyday debit card transactions that  
4 overdraw your account will not be authorized after August  
5 15th, 2010, even in an emergency." This is written in  
6 red and underlined. We don't see privacy notices that  
7 say anything that clearly or that urgently. And I would  
8 argue that it's a problem of the underlying incentive  
9 structure.

10 MS. MITHAL: I see, Paula, you raised your  
11 tent. And I'd like to actually direct a specific  
12 question to you. Fred raised earlier the idea that maybe  
13 notice is useful when there's an opportunity for a  
14 consumer to make a meaningful choice. So, just  
15 broadening that a little bit, are there things that we  
16 can take off the table in notice so that a notice might  
17 be more readable to the consumer?

18 MS. BRUENING: Well, I think that one way to  
19 think about notice is that there may be two kinds of  
20 notices that we might be able to offer. And I'd just  
21 like to preface that by saying I agree with Fred's  
22 analysis, that notice remains important for all of the  
23 reasons that he stated. But I think there are two ways  
24 you can think about this.

25 Indeed, notice is at its most useful when there



1 is something meaningful going on where you can truly  
2 consent where there's really a choice that the consumer  
3 has, but that doesn't happen all of the time. So, it  
4 would seem that to maintain the transparency, you'd want  
5 to have some kind of an available notice, where we can  
6 all, wherever we sit, whether it's in government or it's  
7 policymakers in this room or it's the average person  
8 sitting behind their computer screen, they can find out  
9 what's going on within a company in terms of their data  
10 collection practices and their privacy protections.

11 I would say that there's also an opportunity  
12 for notice where there's actually going to be a real  
13 choice that a consumer can make. That's what I would  
14 refer to as something we call just-in-time notice. At  
15 that point, you can offer to the consumer the information  
16 they really need in order to make a meaningful, well-  
17 considered choice. Now, what those particular pieces of  
18 information are that they need, that probably remains to  
19 be worked out. But I think there's work to be done to  
20 figure out what does the consumer want to know, what  
21 really underscores a good decision and then figure out  
22 ways that you can make that available in realtime when  
23 the data collection is actually going on and when there's  
24 a real decision to be made.

25 MS. MITHAL: If I could just follow up on that.

1 We've heard about this concept of just-in-time notice  
2 before. But I want to kind of bring it back to Chris'  
3 point, which is every time he makes a payment, he's  
4 inundated with that request of whether he wants to go  
5 paperless. So, is there a concern about consumers being  
6 provided too many notices, being inundated with notices  
7 at the just-in-time point? I can ask -- Paula, you can  
8 answer that or I can -- or David or Jennifer?

9 MS. BRUENING: Well, just as a quick response,  
10 we probably don't have as much choice as we like to think  
11 that we do. So, if you really put the notices in front  
12 of people when they actually have the choices, it may not  
13 be as many notices as we might think. The important  
14 thing, though, is that behind that just-in-time notice is  
15 something more robust, that's more comprehensive so you  
16 can really get the entire picture if you want it. I  
17 would argue that probably most people aren't that  
18 interested in it, but it does provide the transparency.  
19 And that broader notice is also available in cases where  
20 there really isn't choice, but you just want to know more  
21 about what's going on as does the FTC and other people  
22 who are in the advocacy community.

23 MS. MITHAL: Okay. David?

24 MR. HOFFMAN: I was just going to try to answer  
25 the question and state specifically some things that I

1 don't think serve a lot of purpose in notices anymore. I  
2 think there's been some fantastic work that's been  
3 recently done on a use-based model around privacy, and a  
4 lot of that work has been to delineate certain uses of  
5 data that are largely implicit in engaging in a  
6 transaction and shouldn't require any sort of  
7 additional choice or I think particularly even an  
8 additional notice.

9           So, if you're ordering a book, for example,  
10 should you have to be provided with notice that that book  
11 company is likely going to provide your address  
12 information to a separate company so that that book can  
13 be delivered? I don't think you necessarily need to be  
14 given that notice. I think that's implicit in ordering  
15 the book. There are different categories of those. I'm  
16 not sure that that information, when it's provided,  
17 really helps any individual make a better choice in those  
18 instances. I just think it makes the notice a lot longer  
19 and read more like a large legal document.

20           Another one that I would state would be in the  
21 area of security. I'd be interested maybe in a show of  
22 hands. Is there anybody in the room who has read a  
23 privacy policy and read specifically the security section  
24 and said, now that I've read that, I really don't want to  
25 provide the information to this? So, we've got a couple

1 people. I'm surprised because everything that I read  
2 says we provide reasonable and robust security. And I  
3 say, all right, I've been a lawyer for an IT organization  
4 for a long time and I'm not sure I know what that means.  
5 But c'est la vie. I think there's a bunch of categories  
6 we could take out of the notice.

7 MS. MITHAL: Okay. Commissioner Stoddart and  
8 then Fred?

9 COMMISSIONER STODDART: Yes. Just to remind us  
10 that there may be light at the end of the notice and  
11 choice tunnel because about 450 million consumers in the  
12 EU and 36 million in Canada have never used that model.  
13 we used informed consent. There doesn't seem to be the  
14 debate about notice and choice, I guess, because I think  
15 it forces us to be more simpler because the test is, does  
16 the citizen or the consumer really understand what  
17 they're getting into and really happening with the data?

18 So, I think rather than being viewed as a kind  
19 of notice of legal liability and what you will and will  
20 not do, it's does the consumer understand, and I think it  
21 forces the level of simplification. But I'm just  
22 presuming that.

23 I think it would be interesting to see what  
24 global companies that sell the same products in the  
25 United States and then in consent environments, how do

1     you change that particular part of linking up with the  
2     consumer and does that provide any ideas for innovative  
3     ways forward that are global?

4             MS. MITHAL:   Fred?

5             MR. CATE:    I was just afraid we were feeling  
6     too positively in here about notices by finding any  
7     proper uses for them, although I think the two last  
8     comments have helped to clarify that.  I just think we  
9     should be frank.  I mean, on the whole, notices have been  
10    an unmitigated disaster.

11            (Laughter.)

12            MS. MITHAL:   How do you really feel, Fred?

13            MR. CATE:    Look, I've toned that down for a  
14    public audience.

15            (Laughter.)

16            MR. CATE:    And in many ways, I mean, not just  
17    because people can't read them or don't read them or all  
18    of those things, partly for reasons already touched on  
19    because they have become contracts.  Therefore, any hope  
20    we had that they would communicate something  
21    intelligible, the FTC took away when it said, we're going  
22    to enforce these as promises that you will be held liable  
23    for.  So, immediately we started adding the words  
24    "reasonable" and "where appropriate" and "as best  
25    possible" and we took what could have been a meaningful

1 notice and turned it into something that we would be able  
2 to fight about in court.

3 But in addition, notice has so often now become  
4 an excuse for not doing something else. We know we've  
5 got a problem, we were going to solve it. But, you know,  
6 let's just send you a notice instead, maybe breach  
7 notices being the classic example of that. So, we've  
8 lived through now seven years of millions of breach  
9 notices being mailed before finally a state got around to  
10 saying, you know, let's try to maybe stop these breaches,  
11 that would be an interesting idea, rather than wait until  
12 they occur and then send a notice and make ourselves feel  
13 better.

14 I think in fairness -- and I don't, in any way,  
15 want to get arrested before I get out of here or  
16 anything. But we don't just do this in privacy. I mean,  
17 there are many other examples of places, anyone who has  
18 ever applied for a home mortgage and gets all of the  
19 federally required notices, which, again, nobody has ever  
20 read and nobody will ever read or an informed consent  
21 notice in the hospital. It's something we use a lot in  
22 ways that are, frankly, inappropriate and becoming  
23 increasingly inappropriate.

24 So, while there are still some places notices  
25 can be used, I think we should be clear, at least, that

1 notices should not be the de facto position, and that  
2 when used in their other roles for transparency, for  
3 education and the like, we're going to have to move away  
4 from treating them the way we have treated them, if we  
5 have any hope of them ever conveying information that the  
6 public will care about or be able to internalize.

7 MS. MITHAL: Fred, if I could just stick with  
8 you for a minute. You talked at our first roundtable  
9 about the illusion of choice. And I think somebody here  
10 -- we started down the road of informed consent. But  
11 could you talk a little about what you meant by the  
12 illusion of choice and segue into a discussion of how we  
13 can actually make choice meaningful?

14 MR. CATE: Yes, I can, I hope. Let me just say  
15 here, too, because I don't want to do anything that makes  
16 it sound like I think choice is a good thing either,  
17 because, I think too often -- and again this has been  
18 well illustrated on this panel and earlier today -- we  
19 slough off good protection by saying, well, they checked  
20 a box. So, we should be very careful about not sort of  
21 celebrating choice in a way that's inappropriate.

22 But I think the illusion of choice is, for  
23 example, where we provided choice where there was nothing  
24 to choose from, so accept or decline, when decline shuts  
25 down the program, that's not meaningful choice in my

1 world. I don't think providing choice where the choices  
2 are, if you will, minuscule in comparison with the things  
3 people really worry about -- I often feel this way in the  
4 Gramm-Leach-Bliley environment where the types of things  
5 people really worry about with their financial  
6 information are not captured by the one choice that  
7 Gramm-Leach-Bliley gives us. You can opt out of certain  
8 marketing, sharing of information with third parties for  
9 marketing certain non-financially related products or  
10 services. It just missed the whole game. I mean, it's  
11 like arguing over the color of team uniforms or something  
12 instead of the playing of the actual game and how it  
13 comes out.

14 I think the illusion of choice is there when  
15 people either don't get the notice, so we say, well, I  
16 had a privacy notice, of course we know nobody has ever  
17 read it. That page has never been clicked on. But there  
18 was notice and, therefore, any choices based on that  
19 notice, particularly the default, where nobody changed  
20 the default because notice told them they would have to,  
21 that would seem like an illusory choice.

22 So, my basic principle would be any time where  
23 there is a choice that either is not real, there's  
24 nothing for them to choose from, or it's not about the  
25 types of concerns that would really face most consumers,



1 that is an example. I mean, we saw one quite recently,  
2 in fact, just the day before yesterday. I was flying in  
3 here and I saw a notice I had never seen before, which  
4 I'm just embarrassed about. But it said you do not have  
5 to provide this information to the TSA, but you will be  
6 denied boarding if you don't.

7 (Laughter.)

8 MR. CATE: Well, I'm sure somebody over there  
9 is celebrating that choice opportunity, but I would not  
10 call that meaningful choice.

11 MS. MITHAL: But just to follow up, is there --  
12 I think you acknowledged at the outset that there is a  
13 role for notice when there's an opportunity for  
14 meaningful choice. So, where there are situations where  
15 there is an opportunity for meaningful choice, how can we  
16 implement that?

17 MR. CATE: Yes, and let me be clear, I do think  
18 there are places where there are meaningful choices.  
19 Particularly, just to take one example, where you're  
20 going to make a use of data that is unexpected and not  
21 related to the transaction, to say at that point, I'd  
22 like your permission before I do this. In that instance,  
23 I tend to think that just-in-time notice related to the  
24 choice almost always is the best way because people will  
25 forget about what it is they're choosing if you gave them

1 notice 30 seconds earlier or three days earlier, or  
2 heaven forbid, you know, three months earlier.

3 This, of course, makes a particular challenge  
4 for electronic devices that have to pose choices where  
5 they can't deliver the notice. So, you've got a hand-  
6 held device that may have a screen or no screen at all,  
7 or the computer in your car or what have you, where you  
8 had to make that choice in an earlier environment. You  
9 know, obviously, a very difficult situation.

10 So, I think given notice as contemporaneously  
11 as possible with the choice will help to make a choice  
12 more meaningful. Similarly, I think making the choice --  
13 the notice as simple as possible and related to the  
14 choice. So, again, not notice about things which nobody  
15 would care or would expect otherwise.

16 So, for example, we have lengthy notices today  
17 about your information may be shared with service  
18 providers who will provide -- you know, the example of to  
19 mail your package to you, we're going to have to share it  
20 with the post office who may, in fact, share it with  
21 somebody else. But, instead, to focus the choices and,  
22 therefore, the notice on where you really have a  
23 meaningful choice to make.

24 And then I don't think it hurts to make that --  
25 you know, maybe you have some other longer notice

1 available someplace else, but the actual notice at the  
2 point of choice to be really bold and clear and basic --  
3 and I always describe these like cigarette pack warnings.  
4 If you can't fit it in a little box in 12-point type,  
5 it's probably too detailed for most people.

6 MS. MITHAL: Okay. Chris?

7 MR. HOOFNAGLE: I think the illusion of choice  
8 goes much deeper than just the notice problem. In  
9 particular, if you look at things like opting out of  
10 behavioral advertising or targeted advertising, you  
11 download an opt-out cookie. I think most consumers  
12 believe that that opt-out cookie means they're not  
13 tracked when, in fact, it means that they are not getting  
14 targeted advertisements. To me, that's the worst of all  
15 privacy worlds. You are still being tracked and you do  
16 not get the benefit of tracking.

17 We're now in a place where there are companies  
18 that are very powerful and are staffed by very smart  
19 people that keep reminding us that, you know, privacy is  
20 about the fact that you can tell them not to market to  
21 you about golf or tennis. But privacy, apparently, is  
22 not about the fact they have trackers on 70 to 80 percent  
23 of the websites on the Internet. So, your choice is, I  
24 think, completely illusory and counterproductive in a lot  
25 of contexts.

1 MS. MITHAL: Okay. Actually, that's a really  
2 good segue into a discussion on access. Chris, you  
3 mentioned the fact that companies may have data about you  
4 that they may not necessarily use. And I'm wondering if  
5 access is a way to address that issue so that a consumer  
6 might be able to see what information a company has about  
7 it. So, maybe, Paula, would you like to talk a little  
8 bit about access and the potential benefits of access, as  
9 well as some of the costs?

10 MS. BRUENING: Sure. I think access has a very  
11 important role when it comes to transparency. It informs  
12 individuals about what kind of data organizations have  
13 about them. It can promote accuracy of the data if  
14 there's a correction right, particularly if that data is  
15 really critical to some kind of decision making and it  
16 promotes the suitability of that data for whatever  
17 purpose that it might be put to. I think, moreover, it  
18 really enhances the trust relationship in good situations  
19 between the individual and an organization who is  
20 maintaining data about them.

21 I think, though, when we talk about access, I  
22 think we have to be careful about how we think about that  
23 because if you think about access as unmitigated right  
24 across all situations, I think you start running into  
25 problems pretty quickly. One is the cost issue. There

1 are legacy systems that have to be dealt with when you're  
2 talking about data. Data has to be collated from a  
3 variety of different places, some of them are quite far  
4 flung. So, making decisions about what kind of access to  
5 offer in different situations, I think, is part of this  
6 puzzle.

7 I think in situations where that data is really  
8 critical to decisions that are going to be made about me,  
9 I want to see the data itself, and wherever possible, I  
10 want to be able to correct that data when it's wrong.  
11 It's better for me, it's better for the company. It  
12 allows for a cleaner transaction. But when you're  
13 talking about large amounts of data that may be something  
14 like marketing data, it may be that to keep the cost  
15 down, but to maintain the transparency, we can provide a  
16 more generalized kind of access that says, this is the  
17 kind of data that we maintain about you. Now, you have a  
18 right, then, to suppress that data, to have us not act on  
19 it. There's another right that goes with that, but we're  
20 not in a position nor are we going to gather every single  
21 bit of data about you from every place that we might  
22 store it because that would be too burdensome. It's one  
23 way to approach it.

24 MS. MITHAL: Reactions, Richard?

25 MR. PURCELL: I have a concern about the

1 response that some companies make that say that it's  
2 just too hard to get to the data to give you access to  
3 it. Because, to me, that indicates that they don't know  
4 what they have, that they're not -- they don't have  
5 access to it themselves. And to me, my next question  
6 would be, are you over-collecting data? Because if you  
7 can't get to it, then why do you have it? How are you  
8 using it? Are you using it? And what is your retention  
9 policy? Because it may be that this -- the fact that I  
10 can't get to it or it's too expensive to bring it  
11 together means it's not got the value that you've  
12 promised me that it provided when you collected it under  
13 your disclosure.

14 It really does bug me. I have a feeling that  
15 the access discussion can easily reveal very poor  
16 information management practices, including particularly  
17 over-collection and over-retention of the data itself.

18 MS. MITHAL: John?

19 MR. VERDI: Just to echo what Richard said,  
20 there are also accuracy issues with that data because if  
21 a company is collecting data, using data and disclosing  
22 data that they've associated with an individual and then  
23 says to the individual, well, it's too hard for me to  
24 give you access to the data or to authenticate that you  
25 are who you say you are so that I can give the right

1 person access to that data, perhaps they ought not be  
2 disclosing that data to third parties and making a  
3 representation that it's about this particular person.

4 I mean, some of the basis for this data  
5 collection and these data disclosures is the company  
6 making the link between the individual and the data.  
7 Well, if they aren't terribly confident in the link and  
8 that comes out in the access and authentication process,  
9 that's sort of your answer right there.

10 MS. MITHAL: David?

11 MR. HOFFMAN: So, I have a long history of  
12 bugging Richard. So, I'll continue to do that when he  
13 said that this really bothers him. I would want to come  
14 back to the first thing that we talked about about the  
15 breadth of the scope of what personal data could be or  
16 personally identifiable information is. The broader you  
17 go in in scope, the more difficult it's going to be to  
18 determine who you should actually give access to, how are  
19 you going to authenticate and identify. This data may,  
20 in the future, relate to a specific individual, but are  
21 you actually forcing me now to actually do that  
22 comparison and relate it to an individual to figure out  
23 if it should go to that particular individual?

24 These are not, I think, just excuses that  
25 companies make not to give access. Sometimes they are,

1 I would agree. But not always. It's not always reasons  
2 that their retention limitations are unreasonable. For  
3 example, I've talked to companies that do make software  
4 that does security screening. For example, they have to  
5 collect IP addresses to do the kinds of security  
6 screening. The retention period for those might actually  
7 be very small, but it's continuous.

8           When you get an access request in, what's the  
9 universe, when do you stop deleting? These are really  
10 difficult situations, which is, I think, the only thing I  
11 can think away on access is I think it is a fantastic  
12 aspirational goal and I think people need to be able to  
13 try to give as much as they get. I think in many  
14 situations it's very difficult. In other situations, it  
15 could actually be harmful in a number of places to  
16 actually provide more access.

17           MS. MITHAL: If I could just follow up on that.  
18 Is there some low-hanging fruit on access? So, for  
19 example, it might be one thing to get access to data that  
20 Amazon has about you, about your prior product purchases  
21 and that sort of thing. But then how do you get access  
22 to data that a third party might have on you that's not  
23 consumer facing? So, I wonder if anybody wants to  
24 comment on that distinction. Actually, let me go with  
25 Paula first since she had her tent up.



1 MS. BRUENING: Well, I actually wanted to  
2 respond to a couple of the comments made about prior --  
3 you know, I definitely agree that it should be getting  
4 easier to provide access rather than harder. I think the  
5 systems are such that we should be able to gather it more  
6 quickly and I think the data that's available in the  
7 ordinary course of business, we should be able to make  
8 that available to the consumer.

9 But I think the sort of distinction that I'm  
10 talking about in terms of access has to do with the use  
11 to which the data's being used. If the data has to do  
12 with my tax return, if it has to do with whether or not I  
13 get a loan, if it has to do with whether or not I can  
14 either buy or operate a car, I better have access to that  
15 data so that I know what's going on. If there's a  
16 problem, I want to be able to clear it up. I do think  
17 there are different kinds of data and they may warrant  
18 different levels of access. But it really has to do with  
19 how that data's being used and what the impact is going  
20 to be on the individual.

21 MS. MITHAL: Fred?

22 MR. CATE: Yeah, I mean, I think there are  
23 loads of examples of low-hanging fruit where access could  
24 be provided. I think one useful place to look, I'm not  
25 suggesting you adopt this model, but simply a place to

1 look, is the experience we have with other laws, for  
2 example, the Privacy Act of 1974 and FERPA, both of which  
3 talk about systems of records, so that you say,  
4 effectively, I'm obviously not merely oversimplifying,  
5 but also being incredibly inaccurate. But Chris will  
6 clear this up in a second. But, effectively, if you  
7 maintain records in such a way that you identify them or  
8 you locate or you pull data out of them on a person-by-  
9 person basis, providing access ought to be pretty simple  
10 because you've got it there. That's how you use them.  
11 That's quite different from saying you have to search  
12 every PC in your business to see if anyone has an e-mail  
13 that has this person's e-mail address in it.

14 So, it seems like we could start with some of  
15 those. In fact, there's been very good work done on the  
16 Privacy Act since the Privacy Act. The GAO did a report.  
17 There were certainly other reports done by privacy  
18 advocacy groups about ways of modernizing that  
19 definition, but still keeping it focused on some notion  
20 of a system of records or records where you have  
21 information that is stored in some appropriate way.

22 I would also say I don't want us to trivialize  
23 the security issue here because I think it's actually  
24 quite significant, and it gets more significant the more  
25 important or relevant or sensitive, or whatever we want

1 to say, the information are. So, when the Federal Trade  
2 Commission's own panel on online access and security  
3 effectively couldn't reach a conclusion on access, I  
4 think it was as much the security concern as it was the  
5 difficulty issue that drove that. So, although we've  
6 certainly come further. We can do things now that we  
7 couldn't have done eight years ago when that panel met.  
8 I don't think those concerns have been resolved yet

9 MS. MITHAL: Okay. I want to go back to  
10 something that Paula mentioned in terms of access and  
11 correction and suppression. I think, and correct me if  
12 I'm wrong, Paula, I don't want to put words in your  
13 mouth. But I think you suggested that for marketing  
14 data, there might be categories of information and there  
15 could be a suppression right, whereas for other  
16 categories of data, there might be a correction right.

17 I just wanted to see if there were any  
18 reactions to that. Are there areas where we would want  
19 to give consumers a correction right and how do we draw  
20 the line there? Richard?

21 MR. PURCELL: Well, it's vitally important that  
22 you give people correction rights in a variety of  
23 scenarios. But at the most fundamental, if there is a  
24 denial of a service or a removal of a service or, for  
25 some reason, some lessening of the relationship, based on

1 information, the individual has to have an access to the  
2 decision points that were made, upon which that decision  
3 was made, in order to review them and correct any flaws  
4 in them. This goes directly to the idea of saying, you  
5 know, you present your credit card and it's denied. Why?  
6 You've got to give access to somebody by saying we're not  
7 providing you a service based on this data. The  
8 individual has to have access to the data in a reasonable  
9 way, and reasonable means timely, prompt and effective in  
10 terms of being able to challenge or correct it, in order  
11 to make sure that the service is being denied based on a  
12 fair reason and not some unfair reason.

13           So, this is the concept of redress. We have to  
14 keep in mind that although there's been a lot of  
15 discussion over this day and the prior two roundtables,  
16 that people are discussing each of the elements of the  
17 Fair Information Practices principles as if they stood  
18 alone. They do not ever stand alone. Remedy or redress,  
19 access and redress are related. They're related to the  
20 notice; they're related to the choices; they're related  
21 to the accountability of the organization. None of these  
22 are first among equals. They are equal concepts that all  
23 have to proportionately build a regime of respect for  
24 personal information.

25           MS. MITHAL: Okay. Commissioner Stoddart?

1           COMMISSIONER STODDART: I was just reflecting  
2 why are we talking about access so much now? I'm the  
3 fish out of water here, right? I'm really not in my  
4 element. It sounds to me, if I may say so, that we're  
5 talking about access so much because the consumer is  
6 nervous or ill at ease and concerned about his or her  
7 information and how it is being handled. If I reflect on  
8 our own organization that regulates personal information  
9 and a law that's based on the fair information  
10 principles, as developed by the Canadian business  
11 community based on the OECD guidelines, the same  
12 guidelines on which you based your fair information  
13 principles.

14           So, there's a whole series, as Richard has just  
15 reminded us, of principles. And I think if there were  
16 more emphasis on proportionality, limiting collection,  
17 the use principle, not collecting information for which  
18 you do not really have a use, that there wouldn't perhaps  
19 be so much anxiety about access.

20           I mean, I look at our complaints. Sixty  
21 percent of our complaints are about collection use and  
22 disclosure of personal information. I don't remember  
23 that access is way up there, but I don't have the annual  
24 report in front of me. I don't know why Canadian  
25 consumers aren't so concerned about access. That being

1 said, access are some of our most difficult cases and  
2 we're preparing to go to federal court on an access case,  
3 but in a real, kind of live human situation access case.  
4 So, I just wanted to put that on the table, that if you  
5 have a whole framework that is applied principle by  
6 principle, it seems to me that that would lower the  
7 demand for access.

8 MS. MITHAL: I want to follow up on a point  
9 that Commissioner Stoddart just mentioned, which is the  
10 point of collection limitation. I think we've talked at  
11 this roundtable and at prior roundtables about the  
12 benefits of having a collection limitation. And I wonder  
13 if any of the panelists want to comment specifically on  
14 that. In fact, Chris, why don't I call on you? I know  
15 that this is an issue of interest to you.

16 MR. HOOFNAGLE: Sure, I'm happy to talk about  
17 it. In looking back at three roundtables, one of the  
18 most salient arguments I think we heard was the idea of  
19 having a regulatory system that only looked at use of  
20 information and did not put limits on collection. There  
21 were a number of organizations that said, let us collect  
22 what we want and just create rules around use. And I was  
23 interested in why none of the advocates kind of jumped on  
24 that. It seemed to me that if you didn't have collection  
25 limitations, it could open the door to all sorts of

1 pretty bad practices. Spyware would be legal under such  
2 an approach. You could collect information that self-  
3 regulatory groups have said that they will not collect,  
4 such as sensitive, personally identifiable health  
5 information.

6           And just as Richard just explained, that fair  
7 information practices are related to each other, I think  
8 collection limitation ends up being closely aligned with  
9 use limitations and implementation. In looking at the  
10 Privacy Act, if you have a situation where an entity is  
11 allowed to approve uses of personal information, they are  
12 going to run wild with that authority. I think the FTC  
13 has 16 routine uses of personal information under its  
14 privacy act implementation. So, it seems to me that  
15 you're opening your door to a lot of problems down the  
16 road with different uses, unless you have collection  
17 limitations on the front end.

18           The other issue you see in the Privacy Act is  
19 when data matching arose. Once you have a lot of data,  
20 it becomes kind of impossible for decision makers not to  
21 use that data for new matching purposes that probably  
22 would not be approved of at collection. So, I do think  
23 we do need to talk about both the procedure and substance  
24 of collection limitation in thinking through these  
25 issues. Because on the back end, you're going to see a

1 lot of uses that are nefarious or objectionable if you  
2 don't place some type of limit on the front end.

3 MS. MITHAL: John?

4 MR. VERDI: I think that that's particularly  
5 true, given how quickly the technology evolves and how  
6 iterative a lot of these products have become. You don't  
7 need to single out particular products, but you can see  
8 how, you know, a single technology product, like  
9 Facebook, right, looked like something two years ago and  
10 it looks very different to its users now in terms of how  
11 it uses data and how it does things like that.

12 You can see how Gmail started out as an email  
13 service and then integrated chat and then became really  
14 social with Buzz and did a lot of other things, and used  
15 consumers' data in very different ways. In a lot of  
16 circumstances, these uses weren't just not implemented at  
17 the time of collection, they didn't really even exist or  
18 weren't even contemplated at the time of collection.

19 So, I agree with Chris. The only real way to  
20 head that off is collection limitation and not use  
21 limitation because you fall into serious problems down  
22 the road when you encounter uses that consumers and  
23 companies never contemplated to begin with.

24 MS. MITHAL: Paula?

25 MS. BRUENING: I would just like to comment on



1 both of these comments. I think when you're talking  
2 about the use model that I believe that Chris is  
3 referring to, it does not take collection limitation off  
4 the table entirely. I mean, to my mind, as somebody who  
5 worked in the advocacy community for quite a while, it  
6 was, to our great consternation, that purpose limitation  
7 and collection limitation and use specification sort of  
8 got written out of the rules. I think that in some ways  
9 that use model brings them back into play. But it  
10 becomes the company's responsibility to be answerable for  
11 the amount of data that it's collecting and the kinds of  
12 protections it's putting in place around that data. It  
13 also, I think, implicates the decisions that are being  
14 made about how that data is being processed and used when  
15 it comes to new business models and new technologies.

16 So, it's not a free and clear, you know, we  
17 collect all of this information and then there's really  
18 no responsibility about it. There's an answerability  
19 that comes with that use and obligations model that says,  
20 you know, I have to be willing to say what I'm doing and  
21 have good processes and practices around what I'm doing  
22 with respect to the data that I collect. So, I think  
23 it's a little unfair to just sort of say that it doesn't  
24 factor in at all.

25 MS. MITHAL: Actually, if I can follow up on

1 the last couple of comments. So, let's say a company has  
2 implemented this collection limitation principle and only  
3 collects the amount of data necessary to effectuate the  
4 transaction. I think John's point is that there still  
5 could be unanticipated uses of that data. So, I guess my  
6 question for the panel is, I hesitate to use the term  
7 "notice and choice," but how can we get informed consent  
8 of consumers when the data is used in an unanticipated  
9 way down the line?

10 Okay, David and Richard?

11 MR. HOFFMAN: Yeah, let me take a stab at that.  
12 I keep coming back to Richard's comment, which I thought  
13 was very insightful, that it's very difficult to take any  
14 one of these individual fair information practices and  
15 drill down on it without relation to the other. When I  
16 think about this topic, I think about it under a header  
17 of data minimization. For me, that tends to mean the  
18 categories of collection limitation, use limitation and a  
19 retention limitation. Because your question talked about  
20 what about subsequent uses, I think that we also -- you  
21 can think about retention limitation as the -- one of the  
22 best ways to prevent additional issues that come from  
23 security breaches. If you have gotten rid of the data,  
24 then it's not subject to being breached in the future.  
25 And that's also true for the collection limitation.

1           I think, going backwards, the original concept  
2           that people were thinking 30 years ago about how this  
3           would handle is not a concept of necessarily what they  
4           would call notice, but there was a concept of purpose  
5           specification. There was a purpose for which the data  
6           was provided by the individual and that that was obvious,  
7           not just from some sort of notice that was provided, but  
8           from the context in which that was provided.

9           This is why I think, once again, that this is  
10          incredibly powerful, this use-based model that's been  
11          developed which is to come back to that concept and say,  
12          it's the context which the data is being provided that  
13          creates what that sort of purpose specification should  
14          be. If you're going to then do something, there are a  
15          number of uses and potentially transfers that are  
16          implicit within that purpose that you are providing the  
17          data. And then if you're going to have a subsequent use  
18          for that data, I think it's quite good there should have  
19          to be a very effective means for exercising choice on  
20          that.

21          I think we've run, though, into two additional  
22          difficulties, which I will point out. I don't have very  
23          good recommendations on how to solve them. I think one  
24          is when the data is not provided by the individual. So,  
25          how do you manage purpose specification if it's actually

1 -- let's say there's a social network that's created  
2 which I think very well might be created soon enough, the  
3 people who hate David Hoffman and want to discriminate  
4 against him. That might be -- a lot of people are going  
5 to join that and share information within that. I might  
6 be very concerned about some of the uses of that data.

7 I think the separate category is organizations  
8 that are created where the actual purposes we might  
9 determine to be malicious, or the purpose itself is they  
10 say, our purpose is to collect data and sell it to  
11 whoever would like to buy it. What kind of rules do you  
12 apply there? I think then that creates a situation where  
13 we probably do need some normative rules laid on top  
14 of these fair information practices to say, where are  
15 some -- there are some pieces of behavior that we just  
16 believe are malicious and should not be allowed.

17 MS. MITHAL: Richard?

18 MR. PURCELL: I think it's great to kind of  
19 harken back a little bit. Some of these first principles  
20 that we talked about -- Jennifer mentioned the OECD  
21 guidelines -- really do encapsulate this. We've been  
22 splitting hairs ever since and we kind of are splitting  
23 these things into finer and finer points until they  
24 become less and less meaningful in some ways.

25 The original access and redress concept was

1 wrapped up in something called individual participation  
2 and, in fact, consent was part of that, too. And it was  
3 a great high level concept. The individual must be  
4 involved and participate in this process. First of all,  
5 by being able to make an informed decision. We got  
6 notice out of that and notice turned into a corporate  
7 liability, cover my ass kind of situation, and it didn't  
8 actually do a lot to allow the individual to make an  
9 informed decision.

10 The choice mechanism was every time you want to  
11 use data in a certain way and it's an unanticipated or  
12 previously unexplained use -- the idea of individual  
13 participation is what Paula was talking about earlier --  
14 you pop a question to the person and say, hey, we just  
15 had an idea, you gave us this, this, you know, some time  
16 ago, we could do this with it, what do you think? That's  
17 not so hard to do, but it definitely falls outside of our  
18 current conversation about what consent and choice means.  
19 It really does let the person participate.

20 Participation also includes, what do you have  
21 on me, what do you know about me, and how can I make sure  
22 that what you know is accurate in some way or another?  
23 So, this idea that these principles have been teased  
24 apart to the point where they become a bit more difficult  
25 to manage, could be, if not resolved, at least we could

1 start the conversation at a higher level and say, these  
2 ideas of individual participation and of organizational  
3 accountability, which pretty well take up a lot of these  
4 principles, could be perhaps elevated to a different  
5 level of discussion. Instead of these practices and  
6 these command and control kinds of things, we could start  
7 talking about what outcomes are we looking for here, from  
8 both sides.

9 MS. MITHAL: Okay. I'd like to read a question  
10 that we got from the audience. The panel seems to be  
11 focusing on information collected directly from the  
12 individual. What about a company that minimizes the data  
13 it collects from the individual, but appends third-party  
14 data which is not necessarily relevant to the original  
15 transaction?

16 COMMISSIONER STODDART: Well, was the  
17 individual whose minimal data was collected told that  
18 this would be done, that this was purpose, or one of the  
19 purposes of data collection?

20 MS. MITHAL: Assume it was.

21 COMMISSIONER STODDART: Well, then, if the  
22 individual had an informed consent, they knew that their  
23 information was going to be used for that purpose, I  
24 think that's --

25 UNIDENTIFIED MALE: And have access to look at

1 it?

2 COMMISSIONER STODDART: Yeah, that's fine.

3 Yeah.

4 MS. MITHAL: And if it wasn't?

5 COMMISSIONER STODDART: If it wasn't, well,  
6 there's a huge problem in our country, it would be  
7 illegal. I think we had a recent example in one of our  
8 investigations where individuals were not aware of the  
9 amount of information that was being shared with third  
10 parties. I'm talking about our Facebook investigation  
11 this summer, and this is clearly in violation of Canadian  
12 law. They have to know -- well, there were a couple of  
13 issues. There was no data minimization, there was access  
14 to a whole suite of data just to run an application and  
15 individuals weren't clearly aware of that

16 MS. MITHAL: Chris?

17 MR. HOOFNAGLE: I've been talking about the  
18 privacy problems of enhancement for sometime. The idea  
19 that you can go to another company and buy information  
20 about your customers, independently of their interaction,  
21 I think, is problematic. Look at a case called Pineda  
22 versus Williams-Sonoma. This is a situation where a  
23 customer goes to a store and at check-out swipes her  
24 credit card and then is asked what is your zip code. I  
25 think a lot of us have -- we might have different

1       conceptions about what that meant.  Some people if you  
2       ask them, they'll say, well, the store is doing  
3       demographic analysis to determine where they should place  
4       their next Williams-Sonoma.  Other people might say,  
5       well, they need that zip code in order to do some type of  
6       anti-fraud practices like you do at the pay at the pump.  
7       But what the store was doing was using the credit card  
8       swipe plus the zip code to use a reverse directory in  
9       order to get the consumer's home address.

10                So, enhancement is squarely in the area where  
11       it's about getting personal information from a consumer  
12       without telling them and personal information that they  
13       probably would not provide if you asked.  I think it's an  
14       area ripe for FTC intervention.

15                MS. MITHAL:  Okay.  Fred?

16                (Laughter.)

17                MR. CATE:  I think this brings us back to  
18       Commissioner Stoddart's reference to proportionality and,  
19       once again, it's not an area where black and white clear  
20       lines help us or are terribly useful.  For example, if  
21       information is going to repurposed or it's going to be  
22       combined with other information in a way that could  
23       constitute a clear demonstrable harm, however we want to  
24       define that, or in a way that puts the individual at risk  
25       in some way, I think you would want one level of



1 oversight of that, if you will, so whether that's  
2 explicit opt-in notice -- notice and choice or whether  
3 that's regulatory approval or whatever.

4 In the example Chris gave, I guess I would go  
5 back to sort of the Fair Credit Reporting Act model, you  
6 know, as long as the first mailing to that address said,  
7 you can opt out of receiving these mailings, I'm not sure  
8 that it really would make a lot of sense to first send a  
9 mailing to the address to ask for permission to send the  
10 second mailing to the address to make the offer that then  
11 the consumer can opt out of. So, it would just take a  
12 little bit of common sense, a little bit of measuring or  
13 quantifying risk of harm or injury to the individual that  
14 might suggest the type of response to the repurposing of  
15 data.

16 MS. MITHAL: Let me follow up on that and also  
17 a point that David made about the need for, in some  
18 circumstances, informed consent when data is repurposed.  
19 So, does this kind of consent or choice, would that  
20 include, well, we collected your information for this  
21 purpose, now we're going to use it for this purpose, and  
22 if you don't like it, you can't use our site or you can't  
23 use our service anymore. How would people view that?

24 Commissioner Stoddart?

25 COMMISSIONER STODDART: Well, I mean, again in

1 Canada, I think that's not allowed by the law. You can  
2 only collect information that a reasonable person would  
3 think is appropriate in the circumstances. These are not  
4 weird Canadian laws. These are based on the OECD  
5 principles that we all -- your country and mine signed on  
6 to. And you have to get informed consent, you have to  
7 give access, and you can't refuse to supply the service  
8 or the product on the basis that the person will not give  
9 you the information, unless the information is  
10 appropriate to your line of business and to your service,  
11 in that context.

12 So, there's kind of an in-built protection.  
13 You can't trade a good or a service against information,  
14 per se.

15 MS. MITHAL: Okay. And, again, once again to  
16 follow up on Fred's point about scaling the type of  
17 consent to the risk of harm, does it make a difference  
18 whether the repurposing or the unanticipated use is  
19 sharing with a third party versus an unanticipated  
20 internal use? Is that a useful distinction?

21 COMMISSIONER STODDART: Well, you know, in  
22 practice, people don't know about these things usually.  
23 I mean, it takes a very sophisticated regulator going on  
24 an audit or, you know, how do we know what the companies  
25 are doing with information inside, you know? So, you

1 know, I think in the debate, people have talked about  
2 time being wasted on debates that aren't fruitful. I  
3 think it's useful if we spend time on things that can  
4 reasonably happen.

5           And this whole issue of unanticipated reuse, or  
6 different use, brings up the question, well, how long are  
7 you keeping this information that you didn't anticipate?  
8 A week, two weeks, a month before? I mean, is it hanging  
9 around for years? We look at now, it seems to me, that  
10 most businesses have a continuous feed of information  
11 from the consumer, so that, you know, it seems to me that  
12 this is not really a use of information that is very  
13 credible to a regulator.

14           MS. MITHAL: Other reactions?

15           MR. HOOFNAGLE: It seems to me the first third-  
16 party distinction doesn't make sense anymore. I think it  
17 can contribute to integration. Say that you look at  
18 companies that have 1,000, 2,000 affiliates, especially  
19 in the financial services world, it doesn't make a lot of  
20 sense. We're seeing -- you know, information collection  
21 on the Internet is done by an increasingly smaller number  
22 of companies, and we benefit them by saying, well, if you  
23 share data with third parties, you're going to experience  
24 these privacy regulations. So, I think it might favor  
25 hegemonic actors and it is something we should probably

1 reexamine.

2 MS. MITHAL: Well, let me just use an example.  
3 So, let's say data is collected from the individual to  
4 buy books, and then later, the company develops a model  
5 where they say, okay, well, we can suggest books for you.  
6 So, there's no kind of sharing with any third parties  
7 there. Should we be treating that repurposing  
8 differently from, I guess, other types of repurposing?

9 MR. HOOFNAGLE: If that's directed to me, I  
10 would suggest that generally first party reuses have to  
11 be looked at more carefully than they are today because  
12 of how large these entities have become. It's not just  
13 repurposing. I think the conversation cannot end around,  
14 is this an appropriate use? You have to also look at  
15 retention, what choice in the matter individuals have  
16 about this. Civil service access and law enforcement  
17 access, I think, also plays into the equation.

18 MS. MITHAL: Okay. David?

19 MR. HOFFMAN: Yeah, I would want to agree with  
20 Chris on that and just add something on it. I think  
21 unanticipated use is extremely important for us to get a  
22 handle on whether it's first party or another party.

23 UNIDENTIFIED FEMALE: (Off microphone)

24 MR. HOFFMAN: I'm sorry. I think unanticipated  
25 use is something that's very important for us to get our

1 arms around, whether it's first or third party. I think  
2 there is an additional issue with transferring to other  
3 parties, but it's not necessarily around the  
4 unanticipated use. It's around the anticipated use,  
5 actually. I think that's around what are the structures  
6 that are being put in place to make sure that the  
7 commitments that the first party has made are actually  
8 being realized by the other party. I think this gets to  
9 all of the work that's now being done on accountability  
10 and how to drive that from just within an organization to  
11 make sure that all the vendors and all the other parties  
12 are making real on those commitments.

13 MS. MITHAL: Paula?

14 MS. BRUENING: Yeah, I would just add that part  
15 of this analysis really just has to be an analysis of the  
16 risk to the individual of exposure to some kind of harm,  
17 the risk -- and that can be not just financial or  
18 physical, but also what we're starting to talk about as  
19 societal harm, as to reputation. So, that should be part  
20 of the analysis, as well as what are the expectations of  
21 the individual and making some judicious choices about  
22 that, the expectation of the individual, but also the  
23 societal expectation. Because I think we've seen  
24 instances where a company will step beyond some envelope,  
25 to mix a metaphor, and there is a backlash. There's a

1 public backlash.

2           So, we generally will figure out as we go, when  
3 we've gone beyond the boundaries of what people will  
4 accept, and it's that risk analysis. Part of the risk  
5 analysis is figuring that out as a company goes along.  
6 Because I think that bright line of internal versus  
7 external doesn't really work. You can have data  
8 practices internally and you can do analytics internally  
9 that can be just as harmful as anything that might be  
10 going on outside of the company.

11           MS. MITHAL: Why don't we now turn to  
12 accountability which David just mentioned. So, let's say  
13 a company has policies in place, it's got collection  
14 limitation, it's got data retention, it's got just-in-  
15 time notice and choice. And then let's say that, you  
16 know, an opt-out doesn't work. It has all of this  
17 inaccurate information about consumers. Oops, they  
18 retained data accidentally. What are some internal  
19 mechanisms that companies can use to ensure  
20 accountability of these policies? Are there technical  
21 protocols that could underlie a system? Can technology  
22 help here? What are some other internal accountability  
23 ideas?

24           Paula?

25           MS. BRUENING: Sure. Well, I think this

1 morning we started to hear about some of those. I think  
2 what underpins accountability is the fact that a company  
3 has made the commitment to be accountable and that it's  
4 got these internal processes and procedures to ensure  
5 that it's going to meet its obligations with respect to  
6 data. Key to that is making sure that everybody  
7 understands what those obligations are.

8           So, there was a discussion this morning about  
9 data tagging, so that you can get clarity around what  
10 obligations match to what data. But I think that's only  
11 part of the equation, when you're talking about -- you  
12 know, the protections within a company. I think that  
13 Drummond Reed talked about the fact that you can tag the  
14 data, but it doesn't necessarily mean that the policies  
15 that go with that data are necessarily going to be  
16 followed.

17           So, it's important to also have an educated  
18 work force, some protocols that help you make good  
19 decisions about that data, some oversight within the  
20 company to make sure that whatever those decisions that  
21 are being made are actually giving you good privacy  
22 outcomes. But I think what's also important to remember  
23 is that an accountable organization is accountable even  
24 when that data is being processed by a third-party agent  
25 or vendor, when it's being shared with a business

1 partner. There's got to be due diligence on the part of  
2 the company that those obligations that go with the data,  
3 that they are understood and that also the recipient of  
4 the data is in a position where they can actually meet  
5 those obligations.

6 So, this is really -- and there's got to be  
7 some opening of the curtain. This isn't an interior  
8 monologue. You've got to have -- these processes and  
9 procedures have got to match up to some external  
10 criteria. So, it's an internal process, but there's got  
11 to be an openness to the outside for oversight and  
12 enforcement.

13 MS. MITHAL: Richard?

14 MR. PURCELL: Well, certainly, accountability  
15 has to be supported and implemented with administrative,  
16 operational and technical controls. If there's part of  
17 that formula missing, then you don't have -- you can't  
18 establish that accountability.

19 One of the contrasts I want to draw here is  
20 that when we talk about the accountable organization, we  
21 begin to contrast this with an earlier discussion around  
22 user control, and there is, again, this sense that there  
23 are these monolithic or unilateral kinds of silver  
24 bullets that are available to solve this, and user  
25 control is, oftentimes, put forward as one of those. But



1     although user control of personal information, your  
2     control over your own personal information, is important,  
3     it's not a reliable way to provide privacy protections.  
4     I don't know what user control would have helped the  
5     people who shopped at TJX stores when they lost all of  
6     their data to a hack.     Nothing would have helped.     No  
7     Spyware detector or intrusion detection on a user's basis  
8     would have helped.

9             So, an accountable organization needs to be  
10     matched as a control to individual user controls over  
11     personal information as well.     That has to be  
12     collaborative because this really comes down to having an  
13     information sharing agreement between an individual and  
14     an organization.     And the organization, in taking on that  
15     responsibility, has to be serious about it, use  
16     administrative controls, operational controls, technical  
17     controls in order to do so.

18             As an example, we talked earlier about the need  
19     to encrypt email that has personally identifiable  
20     information in it.     Well, fine, but it's not done.     It's  
21     not done on a user basis.     It's not done on an  
22     organizational basis very often.     Most data is sent in  
23     the clear using emails, even from corporations, although  
24     it's generally a policy or an aspirational policy to  
25     prevent spreadsheets to being attached and sent outside

1 of the organization and files to be carried around on  
2 laptops. But we all know that that's not how it works in  
3 the world.

4 We have a long way to go, not only to creating  
5 the accountable organization, but also to understanding  
6 what these controls really mean in a way that actually  
7 liberates the service delivery, in a way that gives us  
8 the promise that the information age is actually going to  
9 do us more good than harm.

10 MS. MITHAL: All right. David, last word on  
11 accountability?

12 MR. HOFFMAN: Yeah, I'm actually really excited  
13 about the potential that accountability has to deliver  
14 real privacy protections for individuals as we explore it  
15 more. Marty Abrams and Paula from the Center for  
16 Information Policy Leadership, I think, have been true  
17 visionaries on this of recognizing that there hasn't been  
18 a lot of detail and specifics about what does it mean to  
19 be an accountable organization, even though  
20 accountability has been one of the fair information  
21 practices for over 30 years.

22 And I think if you ask people from  
23 organizations, do you work for an accountable  
24 organization, they would say, absolutely, I do. And then  
25 if you drill down and you ask, okay, so you have a person

1 who's clearly in charge, you have clear, delegated  
2 authorities, you have adequate staffing, you have a  
3 training and awareness program, you have a documented  
4 issue management process, you have clear individual  
5 participation processes, it's all documented and you  
6 could provide it to me and I could read it and understand  
7 it, and very few of them, at this point I think, would  
8 say yes. I mean, leading companies would. A lot of  
9 companies would, in this room, probably would.

10 I think the good news is that people are  
11 starting to drill down on this now and try to define it.  
12 Folks in the industry, along with regulatory  
13 participation, are starting to explore it. I also think,  
14 you know, there's a lot of -- we have a lot of guides  
15 from other compliance operations that we can look to,  
16 financial reporting, environmental compliance. There's a  
17 lot of other reasons we need to run accountable  
18 organizations.

19 I want to say one of the things I'm most  
20 intrigued by, Accenture, I know, designed their entire  
21 processes around the seven standards of the federal  
22 sentencing guidelines. And when I found out about that,  
23 I thought, you know, that's perfect because what we  
24 really ought to be doing is running an accountable  
25 operation so we can clearly communicate it to our CEO and

1 our general counsel in line with other obligations that  
2 we have to be an accountable organization.

3 So, I can't say enough about how important I  
4 think this work is and to have regulatory participation  
5 in deciding what the definition of an accountable  
6 organization really is.

7 MS. MITHAL: Okay. I would like to circle back  
8 to a concept we talked about a few minutes ago. There  
9 seemed to be a fair amount of consensus on the panel that  
10 there is a role for informed consent here. We talked a  
11 little bit about just-in-time notices. What I wanted to  
12 follow up on is ask, is there a role for standardization  
13 of this process? In other words, is there a way we could  
14 take the burden off the consumer to try to digest many  
15 different kinds of just-in-time notices? Is there a role  
16 for standardization?

17 Commissioner?

18 COMMISSIONER STODDART: Informed consent does  
19 not mean, in my jurisdiction, a whole series of  
20 complicated notices. You are not informed and you cannot  
21 consent if you cannot understand, a reasonable person,  
22 not necessarily with a university education, whatever,  
23 cannot understand what they are consenting to. So,  
24 informed consent is inimical then with a whole series of  
25 explanations that most people will just glance over.

1           We know -- psychologists, for example, in  
2 Canada have shown that there's a natural tendency just to  
3 go on, you don't read this stuff. So, you're not really  
4 consenting and you haven't been informed about what  
5 you're doing.

6           So, at a minimum, it's about going back to  
7 plain language. What is really happening here? And who  
8 talked about something that could just be, you know, on a  
9 cigarette package? It was Fred, yeah. You know, saw it  
10 in the airport recently in France, cigarettes kill.  
11 Never seen that before. I don't know if it was the  
12 French approach or what.

13           (Laughter.)

14           COMMISSIONER STODDART: I haven't been, you  
15 know, looking at cigarette packages or something. But I  
16 thought, oh, boy, you know, that's clear.

17           MS. MITHAL: If I could just follow up. Isn't  
18 there a difference between cigarettes kill and privacy,  
19 which may vary from business model to business model and  
20 consumer preference to consumer preference? Does that  
21 create a complication here and how do we address that  
22 complication?

23           MR. PURCELL: It is complicated. I mean,  
24 technologies, not the technologies themselves so much,  
25 but the models that technologies are used to support

1       today can be extremely complex. A simple explanation is  
2       not going to be usable because it's going to hide more  
3       than it's going to reveal.

4                At the same time, we talked earlier about, you  
5       know, the concept of kind of little, middle, big. Okay?  
6       So, one of the things that notices today are used for, of  
7       course, is to cover liability as opposed to expose real  
8       decision making. It's entirely possible, if we help kind  
9       of lessen that liability burden, it's entirely possible  
10      to say, look, here's the best case-worst case scenario  
11      for this condition. You can have the little condition.  
12      Give me your email address. I'll give you these services  
13      through email. The worst case is, I don't know, that  
14      I'll spam you or something like that.

15               The middle case may be worse. The worst case  
16      may be -- one of the things that people don't understand  
17      and companies will not reveal is, what's the worst case  
18      condition of you giving me this information. And it  
19      would help people to make an informed decision if they  
20      understood better what could go wrong here? Frankly, we  
21      could lose your data and that could be bad. Now, we  
22      prevent that by implementing these procedures. It gives  
23      a context for the ability for an individual, a reasonable  
24      person, to make a decision. Isn't that the reason we're  
25      supposed to be giving notice, to have informed decision

1 making?

2 MS. MITHAL: Okay. Fred?

3 MR. CATE: I rarely disagree with Richard, but  
4 I think he's out of his mind.

5 (Laughter.)

6 MR. CATE: This will be like drug labeling.  
7 You'll read the 65 complications you could get from using  
8 this drug and we all know that people still go right  
9 ahead and take the drug anyway. So, I think we need to  
10 be extraordinarily cautious here frankly in, again,  
11 overvaluing the role of consent here to start with.

12 So, one possibility, and this may be a lousy  
13 possibility, but would be for the Commission to think  
14 about identifying a sort of default scenario, to say  
15 look, if this is what you're doing, you owe no further  
16 disclosure and there's no need for further consent. So,  
17 if you're only collecting data to complete the  
18 transaction and you're only going to retain it as  
19 necessary for that completion of that transaction, you  
20 don't owe the consumer anything else and you're going to  
21 use appropriate security. There's no consent there.  
22 There's no additional notice. There's no any -- I know  
23 I'm filling out the form, I don't need a pop-up notice  
24 saying you're filling out a form now.

25 You might remember that disastrous road we went

1 down with the first version of the HIPAA notice where we  
2 were going to get consent to use information provided for  
3 treatment. Like I was going to go in and tell my doctor  
4 something and then be shocked if my doctor actually  
5 relied on it in treating me. Calmer heads prevailed and  
6 we finally got that taken out.

7 But I think one thought would be to think about  
8 are there defaults, maybe multiple defaults in different  
9 scenarios, where the Commission could identify, through  
10 research or through a rule-making or whatever, a process  
11 of saying, look, this is what consumers rationally expect  
12 here, don't bother telling us about it if you're just  
13 doing what you already expect. That might also increase  
14 the pressure, if you will -- that's a slight stronger  
15 term than I would like here -- on data collectors to say,  
16 do I really want to do something else? Do I want to  
17 retain the data? In which case, I know have to do  
18 something else, I can just use the default.

19 MS. MITHAL: Commissioner Stoddart, I'm going  
20 to give you the last word on this. Was your tent up?

21 COMMISSIONER STODDART: Well, it was. When  
22 Fred said we're relying -- placing over-reliance on  
23 consent, he was partly right and partly wrong, if I can  
24 say. Just to get something going, yeah. We do have  
25 different kinds of consent and the example you were



1 talking about is implied consent. So, you know, it's not  
2 an elaborate, formal, highly logical process every time.  
3 But the basic principle is, yes, I agree, but it can be  
4 implied from your actions at the time that you're giving  
5 the information.

6 MS. MITHAL: Okay. We have about five minutes  
7 left on the panel. I would just like to wrap up with a  
8 question to all of the panelists and if you could take a  
9 minute or less to answer this question. The question is,  
10 now that we're at the end of our roundtable series, what  
11 should the Commission do next? So, let me just go down  
12 the line and start with Paula.

13 MS. BRUENING: I think that going forward the  
14 Commission should heed what it's probably been hearing  
15 for over the last three roundtables and not use notice  
16 and choice as the starting point for the discussion. I  
17 think that it's just becoming increasingly clear. That's  
18 not to say you don't look at fair information practices,  
19 because obviously you do.

20 But I think going forward, the exercise needs  
21 to be, how do you make fair information practices work in  
22 the world that we've just described today? How do you  
23 make them work in a really dynamic environment, where  
24 there's massive change, incredible amounts of data, less  
25 and less ability for the individual to exercise the kind

1 of control that might have been envisioned in the 1970s?  
2 But I think the frustration is always that the  
3 conversation keeps starting back at notice and choice  
4 when that isn't really the starting point anymore.

5 MS. MITHAL: Fred?

6 MR. CATE: Thank you. Commissioner Stoddart  
7 described, I think, good data protection as a whole  
8 framework, and I think that is a very important concept  
9 and one we might keep in mind when thinking about ways of  
10 moving forward. So, if I had to identify an objective  
11 here, it is to have organizations or individuals who  
12 collect and use data to feel appropriately the burden of  
13 what they are doing, so that we don't regard it as a  
14 costless activity to the organization, but it may impose  
15 very significant costs on individuals.

16 There are a lot of ways to do that. Law is, I  
17 think, part of that for helping the organization feel the  
18 cause. But I think the way not to do it is to shift all  
19 of the cost back to the individual by saying, let's just  
20 ask you for consent, and if you'll go along with it, we  
21 can do any damn thing we please.

22 MS. MITHAL: David?

23 MR. HOFFMAN: So, I agree with just about  
24 everything Paula and Fred said except when earlier he  
25 said that Richard is completely out of his mind, which he

1 may or may not be, but I don't necessarily agree with  
2 that right now.

3 I think what I would recommend is, I do like  
4 this idea of going back and looking at what are these  
5 sets of fair information practices and not going down the  
6 road that others have gone down, too, by saying, let's  
7 have really detailed regulations that we're going to  
8 write specifically about how to manage and impose these,  
9 but instead creating some ability for some interpretation  
10 and flexibility on the enforcement of those practices as  
11 we move forward.

12 I think your question about standards was a  
13 really good one earlier because I think then standards is  
14 an interesting phrase because, to the technology  
15 community, you say standards and we think international  
16 standards organization, technical standards sitting  
17 around roundtables for about three years before we agree  
18 on something that we can all agree to and that has great  
19 interoperability and increased functionality.

20 But I think if what we mean by standards is  
21 more best practices that we bring people together and  
22 define some recommendations about what the interpretation  
23 of those fair information practices should be that could  
24 inform really robust enforcement action, and that that  
25 practice then would include academics and industry and

1 advocacy groups and regulators, that then makes a lot of  
2 sense to me.

3 MS. MITHAL: Chris?

4 MR. HOOFNAGLE: So, I keep on saying look back  
5 at the 1996 report, where Beth Gibbon (phonetic) said,  
6 the FTC, no matter what it does, should create metrics  
7 for outcomes for its approaches. So, if it's self-  
8 regulation, create some metrics that you can review the  
9 outcomes. If it's legislation, create metrics.

10 One area where you have a metric is adoption of  
11 privacy policies. The Federal Trade Commission created  
12 an atmosphere that caused companies to very quickly adopt  
13 privacy policies in the 1990s. We went from 20 percent  
14 to almost 100 percent probably today. Now, the harder  
15 question is, how do you build substance into those  
16 policies? It seems to me that the market really isn't  
17 functioning to create substance, because competitors are  
18 not rewarded for privacy by design or for privacy  
19 enhancing technologies. In fact, there's a lot of free  
20 riders that claim they do things like anonymise their  
21 search logs, and they really don't. And their  
22 competitors are investing serious research and money into  
23 true anonymization and they are not rewarded for that.

24 It seems to me that the Federal Trade  
25 Commission could do a good thing for consumers and for

1 competition by beginning to police the free riders who  
2 are claiming to do things that really are kind of  
3 laughable upon deeper analysis.

4 MS. MITHAL: Richard?

5 MR. PURCELL: For me, without any disagreement  
6 from the prior comments, there's a balancing here that I  
7 think is important. And deferring to the fact that our  
8 hosts here are the Consumer Protection Bureau, this is  
9 not necessarily or unilaterally a consumer-based society.  
10 We're also citizens. We're also -- we have a certain  
11 amount of shared human dignity that is important to  
12 respect and try and figure out. It's not all about  
13 consumers or users or any of these euphemisms we have to  
14 describe people who are carbon-based life forms.

15 The other part of it is I believe that that  
16 should lead us to a little more cross-cultural  
17 sensitivity about what the whole world is like, not just  
18 what the idiosyncratic American approach is, that we have  
19 to begin to think a little more carefully not to go down  
20 the prideful kind of data as personal property consumer  
21 protection exclusively path of privacy protection, but  
22 expand that and accept the fact that the world has  
23 different concepts of that and different approaches and  
24 at least let those influence the inputs and our thinking  
25 on this.

1 MS. MITHAL: Commissioner?

2 COMMISSIONER STODDART: Well, I don't think  
3 it's up to me to tell you what to do next, but just from  
4 the outside looking in, the FTC is a world widely  
5 respected organization and there are a lot of hopes put  
6 in the FTC's initiative in the area of data protection.  
7 Because outside the United States, we're all affected now  
8 by products and technologies that kind of wash over us,  
9 sometimes independent of what our individual laws are.  
10 That's a huge challenge. So, we're looking for some  
11 action within the United States. I'll just refer you to  
12 Pamela Jones Harbour's comments. Those would be places  
13 to begin.

14 MS. MITHAL: John?

15 MR. VERDI: I think we're at a point in 2010  
16 where the FTC does confront hard cases sometimes in the  
17 consumer protection context. But the Commission also, on  
18 occasion, confronts very straightforward cases, cases  
19 with straightforward violations, straightforward bad  
20 actors, and I would encourage effective enforcement on  
21 those cases.

22 What effective enforcement means to me, in this  
23 context, is a prompt response to consumer complaints  
24 about a business practice, decisive action on the part of  
25 the Commission, and penalties that are proportional to

1 the violations. And I think that that would go a long  
2 way moving forward in the straightforward cases to help  
3 consumers.

4 MS. MITHAL: Okay, thank you very much, and  
5 thanks to the panelists and thanks you to Katie Ratte and  
6 Katie Harrington-McBride who prepared for this panel.  
7 This was a great panel.

8 (Applause.)

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## 1 CLOSING REMARKS BY JESSICA RICH

2 MS. MITHAL: And if you could just stay in your  
3 seats for a little while longer, we have Jessica Rich,  
4 who is the Deputy Director of the Bureau of Consumer  
5 Protection, and she's been a leader at this agency on  
6 privacy issues for the past ten years, and Jessica will  
7 deliver some closing remarks.

8 MS. RICH: Before I make some brief closing  
9 remarks, I just want to thank everyone who made this  
10 event happen. First, the excellent FTC staff that put  
11 together this event so quickly after our second  
12 roundtable. In particular, Loretta Garrison, Caty  
13 Harrington McBride, Naomi Lefkowitz, Monas Mohapatra,  
14 Katie Ratte, Michelle Rosenthal, Randy Fixman, Chris  
15 Olsen, Maneesha Mithal. So thank you.

16 And I want to thank all of the panelists here,  
17 the panelists and the audience for staying interested,  
18 staying here. Look, you're all still here. And helping  
19 ensure such a comprehensive and relevant and focused  
20 event in all three roundtables.

21 So, in closing, I'd like to just talk briefly  
22 about the next steps in this process and the issues that  
23 we're going to consider as we move forward. It's sort of  
24 hard to talk to all of you.

25 As you know, we've had three remarkable



1 roundtables full of ideas and observations. Some old,  
2 many new. Our panelists have included many of the  
3 nation's privacy leaders and many of other nations, too.  
4 I can't see Jennifer from here, but I know she's there.  
5 We have many thoughtful comments to read, and I want to  
6 remind everyone that the comment period stays open until  
7 April 14th. So, if you have some good points, especially  
8 after this great discussion, please send in your  
9 comments.

10 We have some really, really -- despite all  
11 these excellent suggestions for what we're going to do  
12 next, we have some really, really difficult issues to  
13 grapple with, as I think you know, and we get just how  
14 hard they are. And I thought I'd just count the ways,  
15 mention a few of the challenges and the tension we're  
16 dealing with as we work through these issues.

17 So, we want consumers to have greater control,  
18 recognizing that they really don't want to spend time  
19 reviewing privacy policies, even short ones. We want to  
20 distinguish between data uses that raise privacy  
21 concerns, truly raise privacy concerns, and those that  
22 really don't and are benign uses, recognizing that  
23 privacy preferences are likely to differ across different  
24 individuals and that hard lines may be very difficult to  
25 draw. We want to protect privacy without stifling

1 innovation in a marketplace that clearly has been using  
2 data, personal consumers' data to create products that  
3 many consumers like, products and services.

4 We want to accommodate the incredibly diverse  
5 business models and privacy concerns that exist today and  
6 that may be developed tomorrow. Online retailing, data  
7 brokering, mobile devices, social networking, cloud  
8 computing, behavioral advertising, online medical  
9 information, identity management, location-based  
10 services, just to name a few. We talked about more today  
11 than that. And we want a relatively simple framework so  
12 that everyone can understand the norms and the  
13 expectations. And we want to improve on the current  
14 privacy models while building on and not undermining the  
15 progress that has been made under those models, and  
16 supporting and not stopping the valuable privacy work  
17 that's underway right now.

18 We've been encouraged, for example, by the  
19 steps that industry has taken in response to our call for  
20 greater transparency and consumer control in behavioral  
21 advertising. I should add, you know, it's not done and  
22 you keep working on it. We need to see how it turns out,  
23 but we want that work to continue. We have ongoing  
24 projects and commitments with our international partners  
25 to coordinate enforcement and policy development, for

1 example, in APEC, which Commissioner Harbour, who spoke  
2 to us this morning, has led. These efforts can be a  
3 delicate process and we don't want to disturb them and  
4 pull out of them.

5           Despite the cleared shortcomings of privacy  
6 policies as a consumer tool, they've been instrumental in  
7 promoting accountability among businesses. Many of us  
8 remember, it wasn't long ago at all when there were no  
9 privacy policies and no commitments made about how  
10 information would be used. So, we want to preserve,  
11 somehow harness that accountability while figuring out a  
12 better way to communicate with consumers about the kinds  
13 of uses and the choices they have.

14           So, clearly, none of this is easy at all, but  
15 we think it's worth it. The discussion at these  
16 roundtables and especially the last comments that were  
17 just made have told us loud and clear that the dominant  
18 models really haven't kept pace with the wide range of  
19 business models and data practices that are in today's  
20 marketplace, which is evolving, you know, every day. So,  
21 we have a lot of work to do.

22           In terms of how we're going to get that work  
23 done, we intend to continue the collaborative process  
24 that we've launched with these roundtables. Given the  
25 challenges involved, we aren't about to just pop out a

1 new framework tomorrow. We've had these roundtables and  
2 now let's just like propose this new framework, fully  
3 formed and ready for implementation. Instead, we're  
4 going to take some time to think about what we've learned  
5 here. We're going to be reviewing the comments. And  
6 then, you know, we're going to get our thinking together  
7 and likely, as we've done in prior processes, we're going  
8 to put some thoughts out for public comment and get more  
9 input once we focus the issues a little more.

10 In the meantime, we may reach out to some of  
11 you, in particular, to ask you to elaborate on some of  
12 the comments you've made here or some of the points that  
13 have come out. We really continue to appreciate your  
14 help with this immensely challenging, but extremely  
15 important project. And we look forward to our continuing  
16 work together. So, thanks again for coming and we'll  
17 keep talking.

18 (Applause.)

19 (Panel 4 was concluded.)

20 (The roundtable was concluded.)

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