1	FEDERAL TRADE COMMISSION
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4	BIG DATA: A TOOL FOR INCLUSION OR EXCLUSION
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10	Monday, September 15, 2014
11	9:00 a.m.
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17	601 New Jersey Avenue, N.W.
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24	Reported by: Jennifer Metcalf
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Т	PROCEEDINGS
2	MS. GEORGE: Good morning. Good morning,
3	everyone. It's a few minutes after 9:00, so we're going
4	to go ahead and get started. Please take your seats.
5	Good morning, again. My name is Tiffany George
6	and I am an attorney here at the Federal Trade
7	Commission. Welcome to the FTC Workshop Big Data: A
8	Tool for Inclusion or Exclusion. Before we get started I
9	have a few housekeeping items to cover. Anyone who goes
10	outside the building without an FTC badge we will be
11	required to go through the magnetometer, an x-ray
12	machine, prior to reentering into the building.
13	In the event of a fire or evacuation of the
14	building please leave the building in an orderly fashion.
15	Once outside of the building, you need to orient yourself
16	to Constitution Center. Across from the FTC is the HUD
17	building. Look to the right front sidewalk. That is our
18	rallying point. Everyone will rally by floors. You need
19	to check in with the person or persons accounting for
20	everyone in the auditorium. In the event that it is
21	safer to remain inside, you will be told where to go
22	inside the building. If you spot suspicious activity,
23	please alert security.
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- 1 correlations and make fine grain distinctions also raises
- 2 the prospect of differential treatment of low-income and
- 3 underserved populations. This is a risk suggested by the
- 4 Commission's recent report on the data broker industry,
- 5 the Commission's study of the cross section of nine data
- 6 brokers, that data brokers aggregate online and offline
- 7 data from disparate sources to make inferences about
- 8 consumers' ethnicity, income, religion, age and health
- 9 conditions among other characteristics.
- 10 As the FTC and others have found, some brokers
- 11 create segments or clusters of consumers with high
- 12 concentrations of minorities or low-income individuals.
- 13 There may be legitimate reasons why businesses would want
- 14 to sort consumers in this fashion, but the practice also
- 15 raises the possibility that these segments will be used
- 16 for what I've called discrimination by algorithm, or what
- 17 others have called digital redlining.
- We heard these concerns this past spring at the
- 19 FTC seminar on predictive scoring. There are now
- 20 products beyond traditional credit scores that purport to
- 21 predict or score everything from the chances that a
- 22 transaction will result in fraud to the efficacy of
- 23 sending consumers catalogs and the best prices to offer
- 24 consumers. Some speakers lauded the benefits of such
- 25 predictions, emphasizing that they enable the

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- 1 personalization many consumers want and help minimize the
- 2 risk of fraud. But other speakers worried that certain
- 3 predictive scoring products could fall outside the reach
- 4 of the Fair Credit Reporting Act and the Equal Credit
- 5 Opportunity Act, despite having an impact on consumers'
- 6 access to credit, housing, employment and insurance.
- 7 For example, if a company lowers my688Dspo'uTJT‡ het bas

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- 1 information analytics will be used for disparate or
- 2 discriminatory outcomes for certain consumers, even
- 3 absent discriminatory intent. It's these questions and
- 4 concerns raised by these prior initiatives that bring us
- 5 to today's program and to my second question, what is our
- 6 goal today?
- 7 We'll explore whether and how big data helps to
- 8 include or exclude certain consumers from full
- 9 opportunity in the marketplace. And to help shed light
- 10 on these issue we've convened experts from industry,
- 11 consumer, and civil rights groups, academia and
- 12 government, all of whom are representing a wide variety
- 13 of perspectives. Our panelists and speakers will provide
- 14 us a framework for our conversation today, assess current
- 15 big data practices in the private sector, discuss
- 16 possible developments on the horizon, present pertinent
- 17 research and offer potential ways to ensure that big data
- 18 is a force for economic inclusion. It's my hope that our
- 19 participants will discuss in depth the benefits and risks
- 20 of big data to low-income and underserved populations.
- 21 On the benefits side, let me start the
- 22 discussion with one example. New York City is developing
- 23 a tool that combines eviction data with emergency shelter
- 24 admission information and other data to predict when
- 25 individuals or families are on the brink of homelessness.

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- 1 Using this information, the city is able to deploy social
- 2 workers to help these families and prevent them from
- 3 ending up on the street. This is an example of positive
- 4 government use, rather than a business use, but I hope
- 5 our speakers -- our speakers will provide examples
- 6 showing how companies can also use big data to benefit
- 7 those in low-income or underserved groups.
- 8 And as for real world examples of possible
- 9 risks, let me cite a study conducted by Latanya Sweeney,
- 10 who's here from Harvard serving as the Commission's Chief
- 11 Technologist. Professor Sweeney found that web searches
- 12 for distinctively black names were 25 percent more likely
- 13 to produce an ad suggesting the person had an arrest
- 14 record, regardless of whether that person had actually
- 15 been arrested, than web searches for distinctively white
- 16 names.
- 17 This could have devastating consequences for
- 18 job applicants and others by creating the impression the
- 19 individual has been arrested. While t-17rme cite e foincd n.l/oh(

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_	Arter we conclude our workshop, the question
2	naturally arises, where do we go from here? We may all
3	have an array of apps to guide us home when we leave this
4	afternoon, but there's no clear path for navigating the
5	use of big data in a way that advances opportunities for
6	all consumers while diminishing the risks of adverse
7	differential impact on vulnerable populations.
8	We may not yet know what the best course ought
9	to be, but I believe we should have at least three
10	objectives going forward. First, we should identify
11	areas where big data practices might violate existing
12	law. Where they do, the FTC is committed to vigorous
13	enforcement of the law as demonstrated by cases such as
14	our recent action against Instant Checkmate, a website
15	that promoted some of its background checks as tools for
16	screening tenants and employees. The FTC alleged that
17	Instant Checkmate did so without regard for the FCRA, and
18	we obtained a \$525,000 fine and a permanent injunction
19	against the company. In addition to helping the FTC and
20	others to enforce existing laws, today's program should
21	also help identify any gaps in current law and ways to
22	fill them.
23	Second, we need to build awareness of the
24	potential for big data practices to have a detrimental
25	impact on low-income and undergerued nonulations. I'd

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- 1 like today's program to help foster a discussion about
- 2 industry's ethical obligations as stewards of information
- 3 detailing nearly every facet of consumers' lives.
- 4 Third, and relatedly, we should encourage
- 5 businesses to guard against bias or disparate impact on
- 6 low-income and vulnerable populations when designing
- 7 their analytic systems, algorithms, and predictive
- 8 products. A good example is the Boston Street Bump App
- 9 highlighted in the White House Big Data Report. Like any
- 10 big city, Boston has its share of potholes and faces the
- 11 ongoing challenge of staying on top of street repairs.
- 12 To help address the issue, the city released a mobile app
- 13 residents could use to identify potholes in need of
- 14 repair.
- 15 But the city also recognized that because lower
- 16 income individuals are less likely to carry smart phones,
- 17 the data might skew road services to higher income
- 18 neighborhoods. They addressed this problem by issuing
- 19 the app to road inspectors who service all parts of the
- 20 cities equally and used the data gathered from the
- 21 inspectors to supplement what they received from the
- 22 public. This illustrates how considerations of risks
- 23 before launching a product or service can help avoid
- 24 them.
- 25 So, big data can have big consequences. Those

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- 1 consequences can be either enormously beneficial to
- 2 individuals in society or deeply detrimental. It will
- 3 almost certainly be a mixture of the two, but it's the
- 4 responsibility of the FTC and others to help ensure that
- 5 we maximize the power of big data for its capacity for

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- 1 saying how thankful I am to be here. I really appreciate
- 2 the opportunity to speak with you all. And I
- 3 particularly want to thank Katherine and Tiffany for
- 4 putting together what I think will be an excellent day.
- 5 I am Solon Barocas. I'm a post-doctoral fellow at the
- 6 Center for Information Technology Policy at Princeton,
- 7 and I will be presenting today what I hope will be a way
- 8 of framing the conversation today and hopefully going
- 9 forward as well. This draws on some of the work that
- 10 I've been doing, and I encourage people who are
- 11 interested in what I'm presenting to take a look at my
- 12 website where you can find this paper if you want to
- 13 follow along while I present in more detail.
- 14 But let me begin. Okay. So, big data -- we've
- 15 come, I think, to know the three Vs as a common
- 16 definition. That the volume of data is exploding, that
- 17 the velocity at which the data is accumulated is
- 18 increasing, and the variety of formats of data is also
- 19 likewise proliferating. This is a useful definition, but
- 20 I tend, I think, to focus instead on the traditional
- 21 categories from the social sciences, observational data,
- 22 what we might call self-reported or user-generated data,
- 23 and experimental data.
- 24 And what I mean by this, then, is that there
- 25 are actually three valid, different things happening

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- 1 here, all of which have interesting consequences for
- 2 consumer protection. One is that there are many more
- 3 ways to actually observe consumers and consumer behavior,
- 4 things like transactional data, but of course, we can now
- 5 think of things like mobile phone and various health
- 6 devices, self-reported and user-generated data being the
- 7 vast variety of social media that people use. And
- 8 finally, experimental, which I think has now become
- 9 slightly more familiar to people in the wake of this
- 10 Facebook experiment that got a fair amount of press. And
- 11 what I mean by that is there are now platforms upon which
- 12 to perform large-scale experiments in the wild in ways
- 13 that were basically impossible before. And I think these
- 14 are the useful ways, perhaps, to think about it.
- 15 For our purposes today, however, I'm going to
- 16 focus on data mining, this is the more traditional term
- 17 from industry and the academy, which is in some ways what
- 18 we might call a subfield to machine learning, which is a
- 19 -- a kind of field within computer science that is
- 20 devoted to the automated computational analysis of large
- 21 data sets. And again, I focus on this, in part, because
- 22 I think for our purposes today it is the analysis and use
- 23 of the data that is interesting, perhaps less so the
- 24 technical challenges that large data sets present to
- 25 those who accumulate them. So, the remainder of my talk

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- 1 will focus specifically on the analytic techniques and
- 2 why those analytic techniques present some kinds of
- 3 trouble for us when thinking about consumer protection.
- 4 So, what I'll say then as a kind of starting
- 5 place that we can define data mining as the automated
- 6 process of extracting useful patterns from large data
- 7 sets, and in particular, patterns that can serve as a
- 8 basis for subsequent decision making. You can -- I'm
- 9 saying here in quotes "learning," meaning I learned from
- 10 the previous examples that there is some general trend,
- 11 some relationship in the data that I imagine will hold
- 12 true in the future and I can use that as a way to make
- 13 future guesses and inferences as mentioned earlier
- 14 already.
- 15 For terminology, I thought I'd also point out
- 16 that within the field this accumulated set of
- 17 relationships within the data is commonly referred to as
- 18 a model. So, you might have heard the term predictive
- 19 model. What that refers to, then, is all the various
- 20 kinds of patterns that have been extracted from the large
- 21 data set that then inform future decision making. And
- 22 this model can be used in a variety of ways.
- To begin with it can be used to classify
- 24 entities. So, the most common example of this would be
- 25 spam. I think many people are familiar with this. Your

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- 1 computer often, webmail in fact, will make guesses about
- 2 whether or not your message is spam or not, and again, it
- 3 arrives at a rule to determine what is spam and what is
- 4 not spam based on the history of examples of spam it has.
- 5 Likewise, it can estimate values of unobserved
- 6 attributes, or it can guess your income, for instance, as
- 7 also mentioned. And finally, it can also make
- 8 predictions about what you're likely to do. So, future
- 9 consumer behavior of all sorts.
- Now, you might say, as again was already
- 11 mentioned, that, of course, data mining is
- 12 discriminatory. The very intent and purpose of the
- 13 activity is to be able to differentiate and draw
- 14 distinctions. And what I would say, too, is that it is
- 15 in some sense a statistical form of discrimination that
- 16 is almost by necessity a rational form because it is
- 17 being driven by apparent statistical relationships. And
- 18 the data -- these are not arbitrary or this is not a case
- 19 of caprice; this is, in fact, evidence suggesting that
- 20 there are reliable patterns to the data. And using that
- 21 you can confer to the individual those qualities which
- 22 happen to be similar to those who appear statistically
- 23 similar. So, if I reside in one particular statistical
- 24 category that has been revealed by the analysis, they can
- 25 impute to me those same qualities.

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- 1 So, the remainder of the talk will focus on 2 this five-part taxonomy, which is me basically trying to 3 explain how the process of actually mining data lends itself to a variety of issues that can raise concerns 4 5 with discrimination and fairness. So, let me jump right 6 into it. 7 Again, a technical term is "target variable." 8 What this basically refers to is when I set about trying 9 to determine if there are useful patterns that correlate 10 with some outcome, I need to be very specific about what I mean by the outcome. So, when I am looking for good 11 customers, I actually need to arrive at a formal 12 definition of what good customer means. Does good 13 customer mean that it is the one from whom I can extract 14 the most profit? Is it the one I can have a long-term 15 relationship with? Is it the one that if I provide some 16 17 inducement will stay a customer? And there's no way to actually avoid this formalization process. You must 18 19 specify in some definable way what it is that you are 20 looking for. And so the exercise of mining data always begins with actually having to establish some translation 21 2.2 from a business problem into a problem that can be solved
- 24 And in general, the art of data mining -- the 25 kind of creative work of data mining involves this

by predicting the value of this target variable.

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- 1 process of translation, finding a smart, clever way of
- 2 actually translating some kind of business problem into
- 3 one that can be solved by predicting the target variable,
- 4 by inferring the value of the target variable. And I
- 5 think here's what's interesting is that the way that the
- 6 business goes about defining the target variable can have
- 7 serious consequences for whether or not the data mining
- 8 process has a disparate impact.
- 9 In my own work I look at employment, and you
- 10 might say that trying to predict whether or not someone
- 11 is going to be particularly productive as compared to
- 12 predicting whether or not that we're going to remain a
- 13 customer -- rather, an employee for a set period of time,
- 14 trying to avoid turnover, for instance. Those
- 15 differences and definitions will have very different
- 16 consequences for how you rank potential applicants. And
- 17 the same would likewise be true with consumers.
- The second part of the taxonomy is what, again,
- 19 data miners refer to as training data. Training data is
- 20 the large set of information that you use to extract some
- 21 kind of useful rule. It is the set of examples that you
- 22 look at in order to decide if there are actually useful
- 23 patterns to guide future behavior, future decision
- 24 making. And I think, in this case, there are really two
- 25 different, although related, problems with training data

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- 1 that again can have consequences for fairness. One is
- 2 that, as also mentioned, that the -- the set of examples
- 3 can be skewed in some way. And the second, that the
- 4 examples that you draw on could actually be in some way
- 5 tainted by a prior prejudice.
- 6 So, let me try to walk through this a bit.
- 7 When trying to derive some general rule from a set of
- 8 particular examples, the only way that rule will actually
- 9 generalize to future cases is if the particular set of
- 10 examples happens to be representative of future cases.
- 11 And as we know from Latanya Sweeney's work, this main --
- 12 rather, from the Street Bump case, we know that this is
- 13 not always the case. And, even more interestingly I
- 14 think, often times companies are in the position of -- are
- 15 often seeking ways to try to change the composition of
- 16 their customer base such that to suggest that you can
- 17 draw general rules from what customer base that you are
- 18 purposefully changing, again, to put into doubt the idea
- 19 that this is representative data; that, in fact, you're
- 20 dealing with a subset of all possible customers, and the
- 21 particular subset you're dealing with changes over time.
- 22 We could also point out, I think, that the
- 23 reason why data is unlikely to be particularly
- 24 representative in certain cases, that is for reasons
- 25 having to do with the following. So, to begin with, it

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- 1 might well be that certain populations are less involved
- 2 in the formal economy and their various mechanisms in
- 3 producing these kinds of digital traces. They might have
- 4 unequal access to -- and less fluency in the technology
- 5 that's required to produce those kinds of digital traces.
- 6 And finally, they simply might be less profitable or in
- 7 poor constituencies and, therefore, not the subject of
- 8 ongoing observation.
- 9 And I think that the serious problem here is
- 10 that often times the under or over representation of
- 11 particular populations is not always evident. Sometimes

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- 1 scoring where the industry has long worked on problems
- 2 trying to deal with that.
- 3 Labeling examples. This is the process of
- 4 actually trying to specify what is, in fact, a good
- 5 customer and what is, in fact, a bad customer from
- 6 examples. So, I mentioned the example of spam. Let me
- 7 actually jump to this example. So, during the debates
- 8 leading up to the Equal Credit -- Equal Opportunity -- no
- 9 -- Equal Credit Opportunity Act, Fair Isaac pointed out
- 10 in those congressional debates that in fact any way of
- 11 drawing some rule about how to extend credit to customers
- 12 that looked to previous ways that consumers were
- 13 evaluated as potential customers of credit would simply
- 14 reproduce any prejudice involved in those past decisions,
- 15 meaning Fair Isaac could not simply draw on the history
- of credit decisions to automate the process; it actually
- 17 had to find new ways to decide what, in fact, is a good
- 18 target for credit. And what this reveals, then, is that
- 19 any decision that uses past uses as a basis for inferring
- 20 rules must be sensitive to the fact that those decisions
- 21 might be tainted by prejudice in some way.
- 22 Finally, in this same theme, along the same
- 23 line, we can point out then that it's not only the case
- 24 that data mining can inherit past prejudice, but it can
- 25 continue to reflect the persistence of prejudice in the

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- 1 behavior, taken its input to some kind of model, and
- 2 this, I think, is a way of categorizing some of the work
- 3 that Latanya Sweeney and others have done showing then
- 4 that if the input the algorithm receives is itself biased
- 5 or prejudiced in some way it will simply be reflected back
- 6 in the recommendations of that system.
- 7 Feature selection. This is the process of
- 8 deciding what variables, what criteria associated with
- 9 each person will you actually fold into your analysis.
- 10 And here again, I think this is an interesting issue
- 11 because you would imagine that big data presents
- 12 opportunities to vastly increase the amount of features
- 13 and variables you consider. Of course, these -- of
- 14 course, the addition of the -- adding additional features
- 15 to the analysis can often be costly.
- And it may well be that your analysis does very
- 17 well when considering a certain set of features, but it
- 18 doesn't do particularly well for some populations because
- 19 it doesn't actually carve out the population in a
- 20 particularly precise way. Jes

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- 1 be useful in drawing distinctions for particularly
- 2 marginalized populations that simply might just be very
- 3 costly. It might be very difficult to obtain that
- 4 information. And the question therefore becomes, I
- 5 think, does it justify subjecting these populations to
- 6 less accurate determinations simply because it actually
- 7 costs additional money or resources to gain that kind of
- 8 information?

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- 1 this. The final part of taxonomy is masking, which
- 2 refers to the idea that it is possible to mask
- 3 intentional discrimination by relying on any of the
- 4 number of ways I've identified here of having
- 5 discrimination happen unintentionally. Decision makers
- 6 additionally can rely on data mining to infer whether or
- 7 not you belong to a protected class and then to use that
- 8 information in secret to discriminate against you.
- 9 I want to emphasize, though, and this is I
- 10 think one of the most important points I'll make today,
- 11 is that unintentional discrimination of this sort
- 12 identified in the first four parts of the taxonomy is far
- 13 more likely to be occurring, and it has potentially far
- 14 more consequences than the kinds of intentional
- 15 discrimination that could be pursued through masking.
- And I'll simply conclude by saying that I think
- 17 there's a serious issue here about the unintentionality
- 18 of the discrimination that might be occurring. And in my
- 19 own research I have looked at Title VII and in employment
- 20 decisions, and my sense actually is that this aspect of
- 21 the problem, the unintentionality of the problem will
- 22 pose serious issues for trying to bring to bear legal
- 23 remedies. It's unclear that we have the tools when
- 24 looking at existing laws to actually address this form of
- 25 unintentional discrimination.

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1 Additionally, if the problem is that we are 2 exacerbating inequality, it's also unclear whether or not 3 using discrimination laws as a way to deal with that issue is the correct mechanism. 4 5 And finally, I think for many of the kinds of 6 problems identified earlier there's no ready answer, both 7 at a technical and, I think, legal level, and we really 8 require, I think, a conversation that involves both parts 9 of this debate, the technical and the legal dimension. 1.0 So, thank you very much, and I hope people will speak with me if they have further questions. Thanks. 11 12 (Applause.) 13 PANEL 1: ASSESSING THE CURRENT ENVIRONMENT 14 MS. ARMSTRONG: Welcome, everyone. I'm Katherine Armstrong from the Division of Privacy and 15 16 Identity Protection, and I have to say we've been looking 17 forward to today for a very long time. And so, thank you 18 all very much for coming and welcome to Panel 1. 19 Today we -- this panel is going to examine the current uses of big data in a variety of contexts, from 20 marketing, to credit, to employment, and insurance, and how 21 22 these uses impact consumers. Today we hope to do one of the things I think the Commission does best, and that's 23 2.4 to ask questions, to listen, and to learn. Before I

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- 1 Solon mentioned that I think is extremely important that
- 2 was also central to the FTC's Report is that in some of
- 3 these cases you have data that was gathered for --
- 4 initially for some purpose that didn't require high
- 5 fidelity, like slightly making more accurate the list of
- 6 people that you send out a mailer to. And now, in some
- 7 instances, some of that data is being used for purposes,
- 8 like, deciding that certain people are likely to be
- 9 fraudsters and will not be transacted with by actors in
- 10 the marketplace.
- 11 And I think one of the great concerns that the
- 12 civil rights community has is to make sure that where
- 13 we're confident -- well, I'll speak only for myself --
- 14 I'm confident that businesses are going to do things in
- 15 ways that are optimal from a financial perspective, that
- if something helps to make something more profitable,
- 17 that it will happen. But I think, you know, what is the
- 18 harm from a civil rights perspective versus from a
- 19 business perspective when the occasional minority or
- 20 unbanked, or underbanked, or otherwise marginalized
- 21 person is incorrectly excluded from some product that
- 22 they'd be ready to transact with. You know, at some
- 23 level some amount of that is a cost of doing business.
- 24 And I think one question is whether the amount of that
- 25 that's acceptable as a cost of doing business is the same

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- 1 or is different than the amount that is acceptable as a
- 2 civil rights' matter.
- And I'll just say -- I mean, we -- our group of
- 4 technologists that works with civil rights folks released
- 5 on Friday a new report on big data and civil rights,
- 6 which you can find at bigdata.fairness.io, which does our
- 7 very best to sort of inventory these concerns.
- 8 MR. GSELL: So, I'd like to go back for a
- 9 second to what is big data? Data's been around for a
- 10 really, really long time. And people have been using it
- 11 and analyzing it and trying to figure out what it means
- 12 and what they should do with it.
- Today, there's just more of it. This phenomena
- 14 that this new thing called big data has existed, it's not
- 15 something that just came into voque; it's something
- 16 that's been around a long time. And big data, by real
- 17 definition, is more data than your organization can
- 18 handle. Okay. I mean, that's big data. So, if you've
- 19 got more stuff coming to you at home than you can deal
- 20 with, you have big data.
- 21 The question really becomes, as more and more
- 22 data sources become available, more and more data is out
- 23 there, how do you gather it and make sense of it? I
- 24 think the -- I think an awful lot of people give the
- 25 industry more credit for sophistication than actually

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- 1 exists. Most people for the most part are still somewhat
- 2 overwhelmed and a bit behind the curve on the notion of
- 3 dealing with all of the new informational data that's
- 4 coming through.
- 5 MR. TUROW: Can I just pick up on that? I
- 6 agree, and I've talked to a lot of people who say exactly
- 7 what you say in the retail business; for example, that
- 8 they're overwhelmed and that we're at baby steps now.
- 9 But it's the beginning of an era. And I would object to
- 10 the notion that big data are simply the continuation in
- 11 volume, because when you start adding velocity, and
- 12 volume, and variety, and the notion then becomes
- 13 predictive analytics, we're in a different world.
- 14 We're in a world where hundreds and hundreds of
- 15 data points are used to come up with conclusions about
- 16 people that are almost not even intuitive a large part of
- 17 the time. You come up with the -- you have a key
- 18 indicator that you're trying to look for, but the notion
- 19 of which data are going to be used in the end -- an
- 20 example, which may sound crazy, but I -- you know, it's
- 21 not totally nuts.
- 22 Let's say you're a retail establishment, and
- 23 you're interested in trying to predict which people are
- 24 going to become less-valued customers, and you have a
- 25 definition of a less-valued customer. You run your data

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1 When we talk about big data, in a sense, we're 2 really talking about an expansion of what's always been done in the retail industry. If you go back a hundred 3 4 years and you think about how your typical store worked, 5 the store manager was constantly analyzing the shoppers 6 in his store and trying to determine what is it I have to 7 move in the store in order to attract more people; what 8 is it I have to say to this customer in order to increase 9 the loyalty. What big data, or what's referred to as big 10 data, is an expansion of that effort. They are new analytic tools in order to accomplish the same thing. 11 12 we're not able to bring people in the store and not able 13 to get them to increase what they're spending, then chances are the store's not going to survive. 14 MS. BOYD: I think this actually raises a 15 different question which is tethered to the topic of 16 17 today, which is, how do we evenstart to measure or 18 make sense of fairness? Which is usually where we're 19 starting to think about sort of the challenges of how big 20 data gets used. Now, in the American historical context we usually 21 have a battle between equality and equity as our models 22 23 of fairness, right? Equality is the idea of equal opportunity, we create that even playing field, everybody 24

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enters the table at the same fair starting point, and

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- 1 that's how we constitute fairness is when we have equal
- 2 opportunity. Equity, of course, is saying, guess what,
- 3 we have a large amount of systemic issues that result in
- 4 the fact that people do not enter the table at the same
- 5 playing field, or same level, so how then do we think
- 6 about offsetting or dealing with those structural issues
- 7 and how do we think about reconstituting, you know, the
- 8 societal infrastructure so we can think about fairness,
- 9 right? And mind you, we have a long debate in the U.S.
- 10 on this issue of equity. Right. We get into this
- 11 discussion of affirmative action. We get into this
- 12 discussion of whether or not that constitutes socialism,
- 13 and politics, politics, politics.
- 14 But there's a third logic that big data brings
- 15 to bear with what we talk about as fairness. Something
- 16 that is very much coming from the market-driven logic
- 17 that Mallory talked about -- right -- which is the idea
- 18 that we're trying to optimize out efficiencies, and to
- 19 think about distribution of limited amounts of resources.
- 20 Think about how we allocate in the best way possible in
- 21 order to either maximize profit, minimize, you know, law
- 22 enforcement officers on the street; you know, in another
- 23 context, thinking about how we distribute resources or
- 24 maximize opportunities.
- 25 The challenge with that is that market-

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- 1 driven logic of fairness often really comes up pretty
- 2 viciously against our notion of what is equity, because
- 3 of the fact that, as Mallory pointed out, we have these
- 4 really small margins. And the question, then, is who
- 5 bears the responsibility for, you know, the fact that we
- 6 have, you know, retailers who need to figure out how to
- 7 be profitable? I mean, we have the fact that many, you
- 8 know, of our customers are not going to be that
- 9 profitable element.
- 10 We've had this historically, right? Where do
- 11 we actually allocate new, you know, stores? Do we do it
- in a way that is near neighborhoods who are not
- 13 considered profitable? How, then, do we think about the
- 14 social ecosystem? The reason I bring this up is because
- 15 big data is , when used well, when the
- 16 predictive analytics are done right, when the data mining
- 17 is done with some level of statistical accuracy, you can
- 18 get to a point of all of that unintended discriminatory
- 19 or unfair outcomes because of the fact that we're trying
- 20 to minimize -- you know, you're trying to maximize
- 21 profit, minimize, you know, risk, and really deal with
- 22 those efficiencies. And that's part of the trade-off in
- 23 a commercial setting.
- 24 MS. ARMSTRONG: And we're going to be following
- 25 up and circling back to the fairness and ethics as we

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- 1 continue on with this panel, but I think that's an
- 2 important issue to bear in mind because it resonates
- 3 through all that we're talking about.
- 4 I'd like to ask Kristin to also describe a
- 5 little bit some of the findings of the Senate's Big Data
- 6 Report last year.
- 7 MS. AMERLING: Sure. I'd be glad to, and thank
- 8 you for the opportunity to participate today.
- 9 Chairman Rockefeller, as Chair of the Senate
- 10 Commerce Committee, recently conducted an inquiry into
- 11 how consumer information is collected, analyzed, shared
- 12 and sold that I think shares the goal of this panel
- 13 today, which is assessing what is the current landscape
- 14 here. And just to give you a little bit of background,
- 15 the inquiry was conducted by reaching out to nine major
- 16 data brokers to ask what are their practices in
- 17 obtaining, analyzing and sharing consumer information.
- 18 And Chairman Rockefeller released findings in a report at
- 19 the end of last year, a majority staff report.
- 20 I think that there are four major findings that
- 21 are particularly relevant to the discussion that we're
- 22 having on this panel and today.
- 23 First, companies, data brokers that collect
- 24 information without direct interaction with consumers,
- 25 and often without their knowledge, are collecting a

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- 1 tremendous volume of data and it has tremendous
- 2 specificity.
- 3 Second, the companies are collecting this
- 4 information from a very wide variety of sources.
- 5 Third, the result of analyzing this information
- 6 that is collected includes products that are lists of
- 7 consumers that define them by characteristics that
- 8 include their financial and health status, including
- 9 groupings of consumers based on financial vulnerability
- 10 and other vulnerabilities, and they include another set
- 11 of products that the Chairwoman referred to this morning
- 12 relating to scoring consumers, predicting their behaviors
- 13 based on data that's collected. And some of these
- 14 products very closely resemble credit scoring tools that
- 15 are regulated by FCRA raising questions about how these
- 16 products that may or may not fall under the FCRA are
- 17 being used.
- 18 And finally, the fourth finding that I think is
- 19 worth noting is the lack of transparency that consumers
- 20 have into data broker practices. And I'm happy to
- 21 elaborate a little bit more on the four points.
- MS. ARMSTRONG: Well, you know what, why don't
- 23 you weave them in as we continue the -- the conversation?
- MS. AMERLING: Okay. Sure.
- 25 MS. ARMSTRONG: But raising one of the points

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- 1 that Kristin just brought up, I wanted to also throw out
- 2 to the group whether where -- whether where the data
- 3 comes from matters? Whether it's coming from internal
- 4 sources, external sources, third parties, whether it's
- 5 passively collected or actively collected? Does it matter
- 6 in terms of use or types of information?
- 7 Joe?
- 8 MR. TUROW: Yeah, I think it matters a lot, but
- 9 I think we have to be careful to say that just because a
- 10 store, for example, collects the data, it's not a
- 11 problem. The example I gave with the seeds -- just to
- 12 push that a little bit forward -- could reflect a hidden
- 13 discrimination.
- 14 Let's say a person begins to plant a garden in
- 15 her urban area because she's just lost her job, has to
- 16 take care of her grandchildren. Those kinds of subjects
- 17 can be brought out, not in direct discrimination, we know
- 18 this person has lost her job, we know this person had to
- 19 take care of her grandchildren, she has no husband or
- 20 whatever, but rather, the fact that she's buying
- 21 vegetable seeds. You see, it's the idea of hidden
- 22 discrimination even within a particular store.
- Now, add to that the things that you can buy
- 24 from third parties that could build even greater profiles
- 25 about people without anyone knowing that it takes place.

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- 1 People going through stores with loyalty cards, and then
- 2 the material gets put on top of that which can lead to
- 3 many types of discrimination that we have no clue about.
- 4 MR. GSELL: So, that's certainly a possibility,
- 5 I mean, the inherent when you do analytics on data, but
- 6 one of the things that really is driving a lot of the
- 7 change is the ability to process all of this data. It's
- 8 one thing to collect it; it's another thing to actually
- 9 do something with it, okay, and I would contend that the
- 10 ability to tease out -- actually, to eliminate the need
- 11 to sample. So, historically, data was so big that you
- 12 did samples, and inherent in samples are some of the biases
- 13 because they're based on how the sampler decides to set
- 14 up their sample set.
- 15 When you have big data and you have the ability
- 16 to use what I'll call "big compute against big data," you
- 17 eliminate the need for sampling. And when you eliminate
- 18 the need for sampling and you go against the entire data
- 19 set, you have a much greater chance of eliminating
- 20 historic bias that have existed based on the way people
- 21 have decided that this represents an entire population.
- 22 You don't have to represent an entire population anymore.
- 23 With big data and big analytics, you can hit the whole
- 24 thing.
- 25 MR. TUROW: But that's my point. See, that's

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- 1 can see are probabilistic connections. But this also
- 2 means that we're dealing with data sets, or people, that
- 3 don't have say over what goes on.
- So, I think about this, for example, with
- 5 Facebook, right, which is -- and part of to keep in mind
- 6 of all of this is all of the businesses have different
- 7 reasons why they're doing different things, right?
- 8 Facebook wants to give you a service that if you have not
- 9 signed up to their site before, they want, when you come
- 10 in, that you don't end up in this weird desert of no
- 11 friends, no content, no nothing, right, because that's
- 12 miserable. And so one of the things that they have
- 13 gotten much better at doing is determining, before you've
- 14 even shown up, what is the likelihood that you sit within
- 15 a particular network?
- Now, they can do this because of the fact that
- 17 your friends have most likely updated your email or added
- 18 your email address to their system, right? So, your
- 19 friends made decisions to give information about you to
- 20 Facebook, right? They can do this because they can also
- 21 assume, once they have that basic information, they can
- 22 make who else within the network -- what do the people
- 23 like, what are they interested in, and they can start to
- 24 say, hey, might you be interested in this, and give you
- 25 some channel to start engaging.

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- But -- and this is where we get to this
- 2 guestion of -- you know, what kinds of data are we
- 3 talking about? That individual never gave over their
- 4 information, they didn't give over their list of friends,
- 5 their friends gave away them and the site was able to
- 6 interpolate. And this is what becomes part of the
- 7 challenge of a lot of the data analytics technics that
- 8 we're talking about. We're not talking about a known
- 9 trade-off between an individual and a data analyst.
- 10 We're talking about the way in which an individual is
- 11 positioned, intentionally or unintentionally, within this
- 12 network based on what they have or have not given over,
- or what's been given over about them without their even
- 14 realization of it.
- 15 MS. ARMSTRONG: So, let's follow this up a
- 16 little bit. So, how does it -- does it matter how this
- 17 data's being used? I mean, danah's been talking about
- 18 the social network context. I'd like to take it back a
- 19 little bit to traditional marketing or eligibility-type
- 20 determinations. Does the use of the data help define how
- 21 it -- how it should be collected or how it should be
- 22 used?
- 23 MR. DUNCAN: Models are at best, as I think it
- 24 was discussed earlier, just estimates. And we don't know
- 25 how reliable they're going to be in every instance. And

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- 1 you can imagine -- and they can be accurate or not. You
- 2 can imagine a company trying to sell a very expensive
- 3 automobile, and it pulls various lists, and it says
- 4 there's a 30 percent chance that people will come into
- 5 your showroom to look at this car versus another list
- 6 there's a 20 percent chance and five percent. So, they
- 7 -- they have the money to send out 10,000 solicitations,
- 8 and they're going to obviously pull from that first list.
- 9 They might not realize until later that that list is 95
- 10 percent men and five percent women.
- 11 Now, is that a fair determination? Is that
- 12 accurate for that car? Well, if the car happens to be,
- 13 say, a Maserati Gran Turismo, it may turn out that men
- 14 are much more interested in a car that is a \$200,000
- 15 phallic symbol than are women.
- 16 (Laughter.)
- MR. DUNCAN: But you can't really say that the
- 18 -- the use of the analytics was inappropriate in that
- 19 case.
- 20 MR. ROBINSON: Can I -- I think one thing that
- 21 is so important and is sort of not yet part of what we're
- 22 often talking about, but is sort of under the surface of
- 23 what we're talking about, is the desire that consumers,
- 24 and historically, the regulatory regimes have to
- 25 understand why decisions were reached.

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- 1 So, one of the big things that happens in the
- 2 Fair Credit Reporting Act (FCRA) context is that if an
- 3 adverse decision is reached, of course, the consumer has
- 4 this right to have explained to them why the decision was
- 5 reached, which means that if new kinds of data are being
- 6 used to reach FCRA-covered decisions, there needs to be
- 7 this ability to spell out in some fashion how did that
- 8 decision arise from that data.
- 9 And, relatedly, in the Equal Credit Opportunity
- 10 Act (ECOA)context, a model that has a factor in it that's
- 11 correlated with protected status, which, of course, many
- 12 of the key factors are that predict creditworthiness,
- 13 sadly, because creditworthiness is itself not uniformly
- 14 distributed across protected status groups and the
- 15 majority.
- So, how do you decide whether --
- 17 notwithstanding the fact that it correlates, say, with
- 18 race, a factor can still be used in the credit model?
- 19 And it turns out there's a -- there's a two-factor test.
- 20 One is that the factor has to have a statistical
- 21 relationship to creditworthiness, which is unsurprising.
- 22 And the other -- excuse me -- the other requirement is
- 23 that the factor has to have an understandable
- 24 relationship with creditworthiness.
- 25 So, under existing ECOA precedent, if buying

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- 1 Carolina and their education system. And one of the
- 2 things that has been determined to be very important
- 3 about education and going through education is the
- 4 ability to take Algebra in the eighth grade. Okay. Now,
- 5 historically, the way you got into eighth grade Algebra
- 6 was teacher recommendations. We've been able to work
- 7 with North Carolina around analytics to analyze test
- 8 scores, just pure test scores, from the fourth grade
- 9 through the eighth grade -- through the seventh grade
- 10 actually, to determine that there is a group of the
- 11 population that is normally not considered for pre-
- 12 Algebra, or for eighth grade Algebra based on
- 13 combinations of things that are beyond just the test
- 14 scores, or things in the test that are more than just the
- 15 actual answers.
- And as a result of this, we've identified -- or
- 17 the State of North Carolina -- the schools have
- 18 identified 20 percent more students who were not eligible
- 19 for eighth grade math based on teacher recommendations.
- 20 And of those 20 percent more students, 97 percent of them
- 21 go through eighth grade Algebra without a problem. So,
- 22 they would have otherwise been excluded, but through big
- 23 data and analytics they're included and they succeed.
- 24 And it's a huge win for inclusion, not exclusion.
- 25 MS. ARMSTRONG: Okay. Let's -- does anyone

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- 1 profile against our consumer loan base to look like this.
- 2 They've been able to use big data to actually include
- 3 more people in the sample set than exclude. So, they
- 4 actually have a mantra, which is how can we be more
- 5 exclusive, turn down less people if you will, okay, so
- 6 that we can tease out the people who historically don't
- 7 have a good FICO score but they are in fact still good
- 8 credit risks. Okay.
- 9 So, working with them and through the analytics
- 10 we're able to find the people who are normally excluded,
- 11 include them back into the population to give credit to.
- 12 And, again, the historic default rate on the incremental
- 13 people that we bring back into the population is lower
- 14 than the historic credit failure rate across the entire
- 15 data set.
- MS. ARMSTRONG: So, I think that weaves into
- one of the comments that David's paper that was released
- 18 earlier -- or last week -- noted that 70 million
- 19 consumers do not have credit scores. And that
- 20 alternative data can often be a positive way to include
- 21 people that previously aren't part of that mix. So,
- 22 Gene, without going into the special sauce, can -- can
- 23 you tell us what kind -- what is it about the scoring and
- 24 analytics of credit that allows non-traditional data to
- 25 be used in such a positive way?

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- 1 MR. GSELL: So, I'm not a credit expert.
- 2 MS. ARMSTRONG: Okay.
- 3 MR. GSELL: I will preface by telling you that.
- 4 There's an ability to get more sophisticated modeling
- 5 across a larger data set. And the more information I
- 6 have -- it's a classic statistical problem -- the more
- 7 information I have, from a statistical forecasting
- 8 perspective, the better able I am to predict. So, by
- 9 bringing in more data, different vehicles, different data
- 10 vehicles, I'm able to, if you will, tease out, okay, the

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- 1 borrowers for whom the lender can have confidence that
- 2 they are likely to repay.
- Nonetheless, when you change how data is used
- 4 from one purpose to another purpose there are also social
- 5 justice risks. So, in this context, for example, with
- 6 utility payments in New England there are many states
- 7 that have assistance programs where if you are unable to
- 8 pay your power bill they will keep your heat on in the
- 9 winter, but what they require you to do is show that
- 10 you're delinquent in the payment of your power bill in
- 11 order to receive the needed assistance. They say you
- 12 don't have to skimp on food, you can buy your groceries
- and not pay your power bill and then we'll come in and
- 14 help you. Of course, if the world changes in such a way
- 15 that that power bill now becomes also the key to
- 16 accessing credit, then that conflicts with that
- 17 assistance program in a way that may lead those people to
- 18 have, you know, a really difficult choice where the state
- 19 assistance program ends up, in effect, saying that you
- 20 have to commit some kind of like, you know, credit self-
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- 1 the -- the benefits that are there, I think, are best
- 2 realized when we tread particularly carefully with the
- 3 repurposing of data that was gathered in one context, you
- 4 know, for use in another. And I would again say the use
- 5 of data to lock people out of transactions that was at
- 6 first gathered for market purposes where errors were much
- 7 less of a concern is a serious social justice concern.
- 8 MS. BOYD: So, you'll notice that one of the
- 9 things that happens is that we're often going to public
- 10 sector examples. And part of the reason why we do this,
- 11 even as corporates are working with public sector, is the
- 12 fact that many of the decisions that are made within
- 13 private enterprises are not visible. And so, this
- 14 becomes a trade-off, right. Do you assume that the
- 15 private sector actors are inherently evil, or do you
- 16 assume that they're actually trying to do the right
- 17 thing? And, right, we can agree or disagree on a whole
- 18 variety of that.
- 19 And I think that's actually where it becomes
- 20 really difficult, because these same technics that can be
- 21 used to increase different aspects of fairness can also
- 22 be used to create new kinds of complexities. And it's
- 23 that tension that becomes really difficult because it's
- 24 often not visible. And it's not only just not visible to
- 25 outsiders, it's often not visible to the actors

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- 1 And a lot of people who work on trafficking issues have
- 2 identified why often law enforcement is not the best
- 3 intervention point where social services is. So, how
- 4 then do we think about the ethics of those responses?
- 5 And this is where we've got this big challenge
- 6 with corporations. What are they choosing to look at?
- 7 Are they choosing to do it in a way that we deem to be
- 8 ethical or appropriate? How do -- what do they do with
- 9 the information that they get? And when and where do
- 10 they, or should they make this information public?
- 11 And it's not easy to work things out. So, I
- 12 don't want to assume that just our silence and failure to
- 13 give examples is not that companies are engaging always
- 14 in bad -- you know actressing. A lot of is that these
- things aren't visible for a whole variety of complex
- 16 ethical concerns.
- 17 MS. ARMSTRONG: And I think that's one of the
- 18 points of Kristin's that the report showed last year.
- 19 Would you care to elaborate on that?
- 20 MS. AMERLING: Yes. We ran into this lack of
- 21 visibility issue in a number of ways when were looking at
- 22 the practices of the representative data broker
- 23 companies. First, the companies are gathering
- 24 information largely without consumer -- direct
- 25 interaction with the consumer, so the consumers

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- 1 themselves aren't really aware that the companies are
- 2 using their information or that the companies necessarily
- 3 even exist. And then, in looking at the contractual
- 4 provisions provided to the committee, we saw that that
- 5 many of the companies perpetuate this secrecy by
- 6 including contractual provisions in their contracts with
- 7 their customers that say you're prohibited from
- 8 disclosing what your data source was.
- 9 And then, even when a number of companies do
- 10 provide -- a number of the companies we surveyed do
- 11 provide some rights of access for consumers to look at
- 12 the data that they have on them. And in some cases they
- 13 provide some rights of correction if the consumer feels
- 14 the data is inaccurate. But even when those rights are
- 15 provided, and not all companies do provide them, they
- 16 don't have much value when the majority of consumers
- 17 aren't even aware that the companies exist or are
- 18 collecting this data.
- 19 And then, we, in addition, ran into several
- 20 large companies that outright refused to provide to the
- 21 committee who were their specific data sources and who
- 22 are their specific customers. So, those were all
- 23 obstacles to trying to understand, you know, how the --
- 24 how this information is being used and analyzed.
- MR. DUNCAN: Companies are in a very

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- 1 interesting situation right now, especially in the retail
- 2 community, because we're in a transitional period. For a
- 3 long time in the world there existed the online
- 4 community, which a great deal of information tends to be
- 5 gathered. And then, there's the in-store community where
- 6 it's a lot more -- a lot more meager. And we've seen a
- 7 behavioral in stores and in consumers where they want to
- 8 view this as omnichannel. And they want to buy it
- 9 online, and they want to return it in the store. Well
- 10 that means there has to be data flows back and forth
- 11 between those two -- those two markets. And so, the
- 12 folks who are running the store have to figure out how
- 13 far can we go?
- 14 And what we find happens -- and this may
- 15 explain some of the information shortages that you're
- 16 talking about -- what happens is that they look at
- 17 correlates to what consumers expect in terms of the use
- 18 of information in the store, and that's the model they
- 19 use. So, they tend to be very conservative in terms of
- 20 expanding the use of the data or the expansion of that
- 21 data in a store market.
- 22 MS. ARMSTRONG: Can you give an example of
- 23 that?
- 24 MR. DUNCAN: There is -- there is what -- there
- 25 may be cookies that are used online that will travel from

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- 1 location to location. In a store environment we're
- 2 uncomfortable with that kind of movement. We would say
- 3 consumers are comfortable being observed in the store,
- 4 and so information may be gathered and used within the
- 5 store context. But they're very reluctant to go beyond
- 6 that because that violates consumer's reasonable -- or
- 7 the -- that violates the store's expectation as the
- 8 consumer's reasonable expectation.
- 9 MS. BOYD: Let's be clear that Mallory's
- 10 hinting at the fact that there are actually a lot of
- 11 startups out there that are actually trying to track
- 12 mobile phones into stores. And there's a big tension
- 13 within the retailers as to whether or not to implement
- 14 that because it parallels the cookies issue. It allows
- 15 you to literally track a unique identifier of a phone,
- 16 see whether you've seen that person before, see what
- 17 their patterns are, see how they're navigating the store,
- 18 all of that is technically feasible, the question is
- 19 whether or not retailers want to implement it or what the
- 20 challenges are of doing so.
- 21 MS. ARMSTRONG: I think Joe wants to add
- 22 something.
- 23 MR. TUROW: Well, I've spoken to a couple
- 24 people who say they do exactly that now. And all you
- 25 have to do is think about loyalty cards. Loyalty cards,

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- 1 which are kept by virtually everyone here who goes to a
- 2 supermarket, probably uses a loyalty card, it's like 90
- 3 percent of Americans who go to supermarkets that give out
- 4 loyalty cards use them, because otherwise you lose a lot
- of money if you don't. They track everything you do.
- 6 Until the last few years they haven't been able to much
- 7 with it, they haven't, for lots of reasons, done any big
- 8 data analysis, and that's changing totally. Okay. And
- 9 there are companies, for example, Kroger owns part of
- 10 Dunnhumby, which is a company that is designed just to do
- 11 these sort of analytics. The idea now -- companies like
- 12 Macy's and others are putting pods of these beacons in
- 13 stores that look at you when you reach you a certain
- 14 point and then give you specific blandishments, like,
- 15 discounts based upon your shopping habits. Catalina
- 16 Marketing for decades have been giving people these long
- 17 coupons as you check out, based upon 52 weeks of looking
- 18 at your shopping habits anonymously. Now they're
- 19 beginning to do stuff in the store in a digital sense and
- 20 outside the store.
- So, we -- in fact, you're absolutely right
- 22 what's happening now is stores are getting so nervous
- 23 about the online environment that physical stores are
- 24 bringing the internet to the store. And the big data are
- 25 extremely a part of that in ways that danah mentioned and

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- 1 in other ways as well. And it's a -- that's exactly
- 2 what's happening. It's a fascinating trajectory partly

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- 1 are the same generation.
- 2 MR. GSELL: -- on some of those particular
- 3 things. Yeah, but my kids, you know, they have no
- 4 problem.
- 5 MS. ARMSTRONG: Right.
- 6 MR. GSELL: They expect that to your point.
- 7 They expect the same kind of offers and service and
- 8 interaction online when they walk through the store they
- 9 expect the same experience.
- 10 MS. BOYD: Now, I think I'd be -- I want to
- 11 sort of butt in there, because young people -- there's a
- 12 lot of self delusion. Young people are actually just as
- 13 self deluded about a lot of this as we adults are. Like,
- 14 there's not this big difference between young people.
- 15 They want privacy, too. They're focused very heavily on
- 16 the people who hold immediate power over them.
- I want to just think through an experience all
- 18 of us had. Right. We came in here this morning, in some
- 19 ways we knew it was going to be recorded, we knew people
- 20 we're going to take pictures, we're at a public event,
- 21 right. You saw the webcast notice. And yet, when we
- 22 heard this morning the listed detail of, like, if, you
- 23 know, if you object at any moment to a photograph being
- 24 taken, you know, as Tiffany went through this you're
- 25 sitting here going, "I want to leave," right, like, "This

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- 1 is really creepy." Right. And even though you know it
- 2 part of it is that you had put it down, you had avoided
- 3 it, you hadn't thought about your hair in perfect, you
- 4 know, coiffed form.
- 5 This is one of the challenges that we run into
- 6 all of the time, which is that notice and information is
- 7 not always the best way to actually create a meaningful
- 8 relationship. And there's a lot of self delusion on both
- 9 sides. The reality we also -- we collect a lot of
- 10 videotape that we never look at. Right. My guess is
- 11 that most of us are never going to look at the videotape
- 12 of how badly our hair looks on that camera. Right. Part
- of it is this interesting challenge of how much do we
- 14 purposefully sort of put this information aside and
- 15 navigate it through.
- But I would not put this as a generational
- 17 issue. This is not a generational issue. And Chris
- 18 Hoofnogel, in particular, has done phenomenal work
- 19 looking at the consumer side of it. Young people feel
- 20 the same way as adults, their trade-offs look different.
- 21 MS. ARMSTRONG: But is it an educational issue,
- 22 then? I mean, it's easy to suggest that it could be a
- 23 generational thing or not, but I -- I wonder how do we
- 24 educate people, not just adults, not just children or
- 25 younger people, to expect that or to know that their

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- 1 transactions will be recorded or collected.
- 2 MS. BOYD: But you're basically asking to
- 3 educate them about the fact that they are powerless.
- 4 Right. Like, that's what the education ends up being
- 5 about. Like, either you opt out of this room, right, or
- 6 you'll be recorded. Period. You have no say. And
- 7 that's one of the trade-offs that happens all the time
- 8 online, or in these -- you know, commercial environments.
- 9 Right. You want to go and buy something from Best Buy,
- 10 you will be recorded, get over it. Right. Otherwise,
- 11 don't go into Best Buy.
- 12 MR. ROBINSON: And just to pick up on this
- 13 transparency and on something that danah earlier said
- 14 about how, you know, we go to these public sectors
- 15 examples because we don't know what's going on inside of
- 16 these private enterprises. I think that's absolutely
- 17 true and is central, really, to the FTC's future
- 18 decisions about what to do in this area, is that, you
- 19 know, what -- education about the fact that a practice
- 20 happens in general does really little, if any, help to
- 21 try and figure out whether that practice manifests in a
- 22 discriminatory fashion for particular people.
- 23 And Dr. Sweeney's work on the discriminatory
- 24 delivery of online ads is indeed an unique example
- 25 available in the public discussion, which is why the

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- 1 solve, even necessarily, to diagnose those problems.
- 2 MR. DUNCAN: It's not --
- 3 MS. ARMSTRONG: But some -- sorry, I was going
- 4 to say that some would argue that the Fair Credit
- 5 Reporting Act is a -- is a mechanism in the credit
- 6 context, because it's doing exactly the sorts of things
- 7 you're talking about which is when adverse action -- if
- 8 you fall within, an adverse action is taken, you're
- 9 provided a notice that the adverse action was a result of
- 10 something in the credit report, and you're given the
- 11 opportunity to dispute that information. So, I wonder
- 12 whether the expectation in the credit world is a little
- 13 bit different because they know they have this mechanism
- 14 in place, and whether that's a metric that's useful in
- 15 another context?
- MR. DUNCAN: I think we have to make
- 17 qualitative differences. When we're talking about
- 18 credit, or insurance, or education, we may have very
- 19 different expectations than when we're talking about
- 20 marketing.
- 21 Let me go back a moment ago to the example of
- 22 the sports car. One solution would be to say, no, you
- 23 must send the offer to come in and test drive the car to
- 24 more people. Well, the consequences to that is that
- 25 people receive the offer who have no interest in, thus

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- 1 depleting the funds that the dealership has for sending
- 2 it out, or people will rush in to test drive it who have
- 3 no ability to purchase the car, thus tying up the service
- 4 folks at the auto dealership.
- 5 So, you really have to look at the quality of
- 6 what you're doing as opposed to just saying let's take
- 7 the credit reporting structure and apply that more
- 8 broadly.
- 9 MS. BOYD: Also, I don't want to dismiss the
- 10 credit reporting. I think it's an important
- 11 intervention, and I think -- you know, I'm very excited
- 12 to see that being a regulatory intervention. But also,
- 13 let's be realistic. Many of the people that are most hit
- 14 by it have not the time, not the connections, not the
- 15 understanding, not the literacy, not the wherewithal, and
- 16 they don't feel a sense of power to be able to actually
- 17 fight it in many cases.
- And so, when we actually look at that, it's
- 19 also this question of who has all of those resources,
- 20 those soft resources, to be able to do the thing that
- 21 they were supposedly protected, you know, for. And
- 22 that's where this interesting tension emerges of where
- 23 are we trying to get marginalized voices, whether we're
- 24 talking about youth, whether we're talking about
- 25 protected classes, to raise up and try to be powerful

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- 1 against systems of power that are meant to actually
- 2 challenge them? Or where are we trying to think about
- 3 the role of different kinds of advocacy groups or
- 4 different kind of actors who work on their behalf? And I
- 5 think we have to be realistic about how we're dealing
- 6 with this.
- 7 This is the challenge with education. I think
- 8 a lot of our education narratives go back to consumers
- 9 without actually thinking about the lack of other
- 10 resources that they have to make sense of, or feel agency
- 11 or power in light of what's going on. And I think that's
- 12 a difference between how we think about it theoretically
- 13 and what we think about in a regulatory context, versus
- 14 what I see on the ground, when I deal with a lot of
- 15 marginalized people who are just like, I don't feel like
- 16 I have any sense of power to do anything about this so
- 17 don't tell me about it.
- MS. ARMSTRONG: So, what's the solution? What
- 19 are your recommendations for empowering those people?
- 20 MS. BOYD: I mean, this is where I do believe
- 21 -- I believe strongly in the role of advocacy as a
- 22 mechanism to be speaking on behalf of groups. And this
- 23 is one of the reasons, you know, Dave and I spend a lot
- 24 of time talking with different legacy civil rights groups
- 25 for this reason. Like, those folks need to be educated,

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- 1 you know, on behalf of populations as opposed to -- and
- 2 they need to have the transparency and the tools and the
- 3 mechanisms with which to hold, you know, systems of power
- 4 accountable without always going direct to the consumer
- 5 as the right direction there.
- 6 MR. ROBINSON: I mean, so, I mean, these are
- 7 groups that have unique -- you know, that hold the
- 8 franchise through their -- and have earned the franchise
- 9 to speak for these communities and policy settings.
- 10 Right. There are people who -- whose job that is. There
- 11 are people who do it for, you know, down to migrant farm
- 12 workers, and really the most marginalized, you know,
- 13 people, you know, in our country have, you know, people
- 14 who are there.
- 15 But I think making the practices transparent
- 16 enough to give handholds to advocates in those cases in
- 17 which there's a role that they do need to play I think is
- 18 a role that FTC itself has often successfully played.
- 19 And certainly, I think the FCRA is, you know, a good
- 20 model for the things that it applies to and has certainly
- 21 -- has played a role in making underwriting a relatively
- 22 conservative area in terms of the applications of big
- 23 data as compared to these unregulated, you know,
- 24 marketing practices.
- 25 Although, as the Chairwoman noted in the case

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of these thinly aggregated scores that may be used to 1 2 lower credit limit that are putatively outside of FCRA, I think it becomes difficult. And frankly, I think there 3 are, you know, legislative and ultimately constitutional 4 5 questions about how far the FCRA-style model could be extended into the marketing world that I think really do 6 7 force us to -- and I also -- let's -- you know, law and 8 regulation have a valuable role to play, but so does --9 but so does corporate citizenship potentially. I mean, I 10 think people who say, you know, we're doing stuff in a way that we would like to be responsible and we would 11 like to take affirmative steps to make sure that we're 12 not inadvertently having disproportionate adverse, you 13 know, impacts, I think there's a role actually there for 14 collaboration with advocates. Because right now it's 15 clear what the sign posts are, what the benchmarks are 16 17 for making sure that you're not doing these things inadvertently. And I think that if I were to project 18 19 forward five or ten years, my recommendation, my hope, and also my prediction, would be that there are going to 20 be some practices that emerge, and my guess is that they 21 2.2 are going to emerge probably in a collaborative fashion that's probably outside of the legislative process. 23 24 MR. DUNCAN: David, I want to be very careful I 25 think here, because access to credit is essentially a

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- 1 fundamental right in this country. Access to a high-end
- 2 men's fashion catalog is not. And we ought not to
- 3 conflate the two in this discussion.
- 4 MS. AMERLING: But the --
- 5 MS. ARMSTRONG: Well -- go ahead, Kristin.
- 6 MS. AMERLING: I mean, the -- the kinds of
- 7 products that we saw in our review of data broker
- 8 practices that involve marketing did go beyond products
- 9 designed to promote the most appropriate car or reach the
- 10 people who are most interested in cooking magazines. I
- 11 mean, there are a wide variety of groupings of consumers
- 12 based on their financial and house status that includes
- 13 lists of people who have diabetes, Alzheimer's, or
- 14 suffering from depression that consumers may not be as
- 15 happy to find that they're on as finding out that they
- 16 can be targeted for the best car that's most tailored to
- 17 their needs.
- 18 And there was actually an interesting article
- 19 that just came out last week by Bloomberg on widespread
- 20 sale of health ailments list that goes right to this
- 21 point where they reported that just with simple Google
- 22 searches the reporters were able to find lists of
- 23 consumers with their names and addresses that were
- 24 identified as associated with specific diseases. And
- 25 they interviewed some of these consumers, and one who was

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- 1 associated with diabetes was surprised and not at all
- 2 happy to find out that he was on this list, and said he
- 3 didn't have diabetes and nobody in his family had it.
- 4 So, there are some sensitivities raised by some
- of these products that I think are a little more in the
- 6 grey area than just these are the best products to tailor
- 7 to the needs.
- 8 MS. ARMSTRONG: So, we're about to run out of
- 9 time, but I'd like to give everybody on the panel an
- 10 opportunity to say some parting remarks. We have some
- 11 question cards from the audience that raise some issues
- 12 that I think would be worth mentioning. And that is the
- 13 level of trust that may appear to be missing in the big
- 14 data context of the relationship of marketers, a person
- 15 that goes to a store may choose to go to the store, there
- 16 may be a level of trust there, but the invisibility of
- 17 big data disperses that trust a little bit perhaps.
- 18 But I would -- I would like each of you -- and
- 19 I feel terrible in a way because we have ended this panel
- 20 talking about what the last panel is going to be talking
- 21 about more, which is sort of the path forward. So, as
- 22 you provide your final little remarks, if you would also
- 23 remember that we were laying the landscape and if you
- 24 could bring it back to what's happening now as we wrap
- 25 up, that would be fabulous.

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- 1 MR. TUROW: Okay, I -- I had a path forward,
- 2 but I'll try to make it a now.
- 3 MS. ARMSTRONG: As long as you bring it back to
- 4 the landscape.
- 5 MR. TUROW: The now part of it reminds me about
- 6 the -- I think it's shameful that in a commerce committee
- 7 hearing when a senator asks a representative of the data
- 8 industry whether he could name his clients, he refuses to
- 9 do that. These are areas of life that impact all of us.
- 10 And the collection of information about us and their use,
- 11 I think should be required -- I think companies should be
- 12 required to say which data broker -- the data broker
- 13 should be required to say what -- who they get it from,
- 14 what are the categories, because these affect us
- 15 everyday.
- In terms of education, I think most people are
- 17 learning about credit cards and loyalty from Jennifer
- 18 Garner on tv commercials then they learn from anywhere
- 19 else. We have no learning about this stuff anywhere.
- 20 People are -- it's totally obscure. And I would suggest
- 21 that's purposeful.
- 22 I think the idea of big data is a continuity.
- 23 There's an element of continuity between that and the
- 24 quantification of the individual that has gone back 30,
- 25 40 years. But we're in a century now that I think will

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- 1 be looked at as the century of data, the century of
- 2 pinning numbers on people and trying to figure out where
- 3 that leads people. And we're only at the beginning. So
- 4 I think we have to realize that this stuff is important,
- 5 not just for now, and it's going to get much stronger
- 6 with greater processing and the kinds of things that
- 7 people are saying today, "we can't do it," are going to
- 8 be done.
- 9 So, the issue is not, you know, is this going
- 10 to happen because it's too futuristic, but when it
- 11 happens are we going to have the conceptual tools to deal
- 12 with it.
- MR. ROBINSON: I just -- to sort of pick up on
- 14 the question about trust and where things are today, I
- 15 think there's an unrealized opportunity to create greater
- 16 trust with consumers in terms of how these technologies
- 17 are being used. And I think that the tools that we have
- 18 from prior regimes about notice that your data is being
- 19 collected -- the notice and content regime, frankly, I
- 20 don't think offer the tools to create that greater trust.
- 21 Because, as danah was saying, the data is collected in a
- 22 way that you don't have fine-grained awareness, and you
- 23 certainly don't have fine-grained choice about what's
- 24 going to happen.
- 25 And I think that the tools that we need in

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- 1 economic model still will drive most of the thought
- 2 process around this. A retailer doesn't want to do
- 3 something that creeps you out. Okay. And the minute
- 4 they cross the line they get what is the worst thing
- 5 possible for them, which is you opt out. And the worst
- 6 thing for a retailer is a fair amount of opt outs. They
- 7 want to keep you in the fold. They want to be relevant
- 8 to you. They want you to be responsive. And their only
- 9 notion is to give you something more relevant to you so
- 10 you don't have to filter out all of the noise that's out
- 11 there.
- 12 I think that there are clearly some privacy
- things that need to be monitored and watched, but on
- 14 balance I think most consumers are electing to opt in as
- 15 opposed to opt out.
- 16 MR. DUNCAN: I think Gene said it well. I
- 17 mean, there are a lot of retailers out there, several
- 18 million. And so, there's a lot of choice and opportunity
- 19 for consumers. And trust, in that context, is more than
- 20 just one element, such as sharing this data flow or
- 21 another, it really is about developing loyalty with the
- 22 customer so the customer trusts the retailer and wants to
- 23 return and maintain that loyalty.
- One easy example. There are companies out
- 25 there that gather -- like, Amazon -- gather huge amounts

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1 of data, and yet, consumers know this because they see

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- 1 thinking about that. How do we start thinking about
- 2 holding supply chains accountable when we're thinking
- 3 about these data issues? Not just in terms of the data
- 4 brokers that the FTC is looking at, but in terms of all
- 5 our own acts -- our own behaviors around this.
- The other thing I think is really important to
- 7 highlight is that many of the companies, especially the
- 8 big names, are really trying to do their best. Right.
- 9 They're trying to figure out how to hold this stuff in a
- 10 responsible way. But as, you know, David's point out,
- 11 they don't always know what the best practices should be.
- 12 And this is where there's tremendous opportunity for
- 13 meaningful cross-sector collaboration to try to figure
- 14 these things out.
- 15 Regulation is one approach. It's a very power
- 16 strong-armed approached, but collaboration is another
- 17 approach to start thinking about how do we evolve the
- 18 best practices and how do they differ per sector, because
- 19 as Mallory pointed out it's different when we're talking
- 20 about retailers than versus what we're talking about in
- 21 terms of finance and credit. What does it look like and
- 22 how do we pull things together?
- 23 Finally, I want to sort of end with a
- 24 philosophical point, which I think is also about the
- 25 state of being. The notion of a fact in a legal sense

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- 1 emerged in the 1890s. It's a really modern concept. And
- 2 anybody who lived through the last election in this
- 3 country saw that we're kind of in post-fact state.
- 4 (Laughter.)
- 5 MS. BOYD: For better or worse, one of the
- 6 things that's sort of coming up as a new equivalent of
- 7 fact is rethinking probabilistic understandings. This is
- 8 the big data element. This stuff is here to stay. Part
- 9 of it is understanding what probabilistic systems mean
- 10 for our whole ecosystem, because part -- in understanding
- 11 probabilistic systems you realize it's not cleanly fact,
- 12 it's about trying to figure out how to deal with this,
- and how do you hold probabilistic systems accountable,
- 14 and how do you think about their role in things like rule
- 15 of law is going to be very, very messy. And this is
- 16 where I say this because a lot of what we're dealing with
- in terms of the systems that we're trying to hold
- 18 accountable are probabilistic systems, which are not
- 19 intended or designed to be discriminatory in a
- 20 traditional sense in the narrative of a fact, but they're
- 21 done in this way that ends up unintentionally doing so.
- 22 And that goes back to Solon's comment. And I think it's
- 23 really important to understand that philosophically,
- 24 because that's one of the things that we need broad-
- 25 spread literacy on before we run into the systems where

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- 1 the panels today because it all does, as danah said, a
- 2 lot of grey areas. So, thank you very much everyone.
- 3 (Applause.)
- 4 MS. ARMSTRONG: And you need to return --
- 5 audience members, you need to return here at 11:00. You
- 6 have about a ten minute break. There is a cafeteria, but
- 7 you can't bring any food in here, so...
- 8 (Laughter.)
- 9 (Whereupon, a brief recess was taken.)
- 10 PANEL 2: WHAT'S ON THE HORIZON WITH BIG DATA?
- 11 MS. GEORGE: Hello, welcome back. We're going
- 12 to get started in a couple of minutes. Will the
- 13 panelists on the second panel please come up to the
- 14 stand? Please take your seats.
- 15 (Brief pause.)
- MS. GEORGE: Good morning again. For those of
- 17 you who may have missed the beginning, my name is Tiffany
- 18 George, and I am an attorney in the Division of Privacy
- 19 and Identity Protection here in the FTC. And welcome to
- 20 our second panel. We're going to discuss what's on the
- 21 horizon with big data. As you can see, the first panel
- 22 touched on a lot of different issues, some of which will
- 23 be covered in our subsequent panels. But for this panel,
- 24 we want to focus on potential future trends in big data
- 25 practices and implications for consumers and

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1 organizations.

2 I'd like to thank our esteemed panelists for

3 joining us today. I will briefly introduce them and then

4 we'll dive right into the discussion.

5 Joining us today are Alessandro Acquisti,

6 Associate Professor of Information Systems and Public

7 Policy at the Heinz College of Carnegie Mellon University

8 and Co-director of the CMU Center for Behavioral Decision

9 Research; Pamela Dixon, founder and Executive Director of

10 the World Privacy Forum; Cynthia Dwork, distinguished

11 scientist from Microsoft Research; Mark MacCarthy, Vice

12 President for Public Policy of the Software Information

13 Industry Association; Stuart Pratt, President and CEO of

14 the Consumer Data Industry Association; and Nicol Turner-

15 Lee, Vice President and Chief Research and Policy Officer

16 for the Minority Media and Telecommunications Council.

Welcome and thank you again for joining us.

18 I'll start with a broad topic for our

19 discussion today and then we can drill down. So, I'll

20 toss this out to the entire panel. What trends do you

21 see in the future of big data? Is it going to get

22 bigger? Is it going to be better? Will there be more

23 passive collection of data versus active collection of

24 data? How will it be used, such as for marketing, fraud

25 detection or eligibility determinations? And should

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- 1 consumers be concerned about these practices?
- 2 MR. MACCARTHY: Let me jump in. Is the mic on?
- 3 Can you all hear me?
- 4 AUDIENCE: Yes.
- 5 MR. MACCARTHY: Good. So, I first want to do
- 6 some marketing. Our friends at the Future of Privacy
- 7 Forum and the Anti-Defamation League have published a
- 8 nice little collection of examples where big data is used
- 9 for empowering people and promoting economic and social
- 10 opportunity. I urge you all to take a look at it and
- 11 contemplate the advantages, the benefits of using big
- 12 data in many of these contexts.
- The couple of examples I want to mention, one
- 14 of them has already been mentioned, alternative data
- 15 scores, I think these are going to increase going into
- 16 the future. A recent study by LexisNexis found that 41
- 17 percent of Hispanics and African Americans could not be
- 18 scored by traditional systems, while only 24 percent of
- 19 the general population could not be scored. That's an
- 20 unscorable rate for minority populations almost twice the
- 21 general population.
- 22 Their new risk view scoring methodology allows
- 23 81 percent of the people who are not scored to receive a
- 24 score and thereby be eligible for the mainstream

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- 1 little bit about that before, but I wanted to put that
- 2 one on the table as well.
- 3 Cognitive computing in healthcare, IBM has a
- 4 version of its Watson computer that functions as an
- 5 oncology diagnosis and treatment advisor. It's in use
- 6 today at Memorial Sloan Kettering and MD Anderson Mayo
- 7 Clinic is using it to select subjects for clinical
- 8 trials.
- 9 So, how does this help the under-served? Well,
- 10 there are shortages of specialty providers in hospitals
- 11 all over the country. Some 50 to 60 percent of community
- 12 hospitals do not have an oncologist on staff. But now
- 13 suppose that the medical insights from these computing
- 14 systems can be made available to clinicians in community
- 15 hospitals throughout the country. This isn't happening
- 16 today; it's a potential for the future and it's one I
- 17 think we should encourage.
- The last example was one that was also
- 19 mentioned on the last panel. These are predictive
- 20 analytics in education. Many schools are using
- 21 predictive analytics tools to find students who are at
- 22 risk of dropping out so that they can engage in early
- 23 intervention operations. Many companies provide these
- 24 kind of tools. They're very, very effective. If they're
- 25 deployed in time, they can reduce the dropout rate

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- 1 significantly.
- 2 So, three examples of the use of big data
- 3 analytics for productive and for socially beneficial
- 4 purposes that have the effect of increasing social and
- 5 economic opportunity. We'll have a further discussion
- 6 about all of these, I'm sure, as we go on.
- 7 MR. ACQUISTI: Okay, I'll do some marketing as
- 8 well like Mark just did. Curtis Taylor is an economist
- 9 at Duke, and Liad Wagman, an economist at Northwestern,
- 10 and I just finished a manuscript reviewing the economics
- 11 of personal data and the economics of privacy.
- 12 So, it was interesting, this exercise we did,
- 13 because we were looking to see what economists over the
- 14 last 20 or so years have said about the impact that
- 15 personal information and the trade of personal
- 16 information can have on the welfare and allocation of
- 17 surplus. Because, to me, going back to your question
- 18 about what is the next big issue -- for me, as an
- 19 economist, the next big issue is to what extent the data
- 20 will increase the economic pie, will lead to more economic
- 21 growth, benefitting everyone. So, a win-win. And to
- 22 what extent instead will simply affect the allocation of
- 23 surplus. So, winners and losers.
- The economic pie remains the same. But some
- 25 entities gain more of the pie and some entities gain few.

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- 1 So, for an economist, that's a problem of welfare and
- 2 allocation. And what we found in the detailed chart is
- 3 that, well, generally, with more information, economic
- 4 growth goes up, you have more efficiency and that is
- 5 predictable, I would say. But there are also cases where
- 6 paradoxically or surprisingly it's actually privacy which
- 7 can lead to more economic growth.
- 8 One case in point is health privacy
- 9 legislation, which can paradoxically promote innovation
- in the field of HIE, health information exchanges,
- 11 promoting the growth of HIEs, because it decreases
- 12 privacy concerns and uncertainty that firms or health
- organizations may have in terms of how to use their data.
- In terms of the allocative effect, we find
- 15 evidence of, of course, both privacy and lack of privacy
- 16 affecting winners and losers. Sometimes it's the
- 17 transfer of wealth from data subjects to data holders, for
- 18 instance, the case of price discrimination. Sometimes
- 19 it's an issue of transfer of wealth between different
- 20 data subjects.
- 21 One experiment that we actually ran at CMU --
- 22 maybe I'll mention more about it later -- was about the
- 23 role that personal information found on social media can
- 24 have on the hiring behavior of firms. And what we find
- 25 is that even when candidates have identical educational

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- 1 and professional backgrounds there is an impact on the
- 2 personal information, protected traits such as religion
- 3 affiliation or sexual orientation in how employers make
- 4 decisions.
- 5 So, this personal data, which employers can
- 6 find online, can paradoxically create less fairness. So,
- 7 we have more data, but less fairness. We have, of
- 8 course, also cases of more data, more fairness, which I
- 9 believe Cynthia will discuss.
- So, the point being that going back and echoing
- 11 some of the remarks Chairwoman Ramirez said this morning,
- 12 not only I believe that, as she pointed out, big data will
- 13 probably have both positive and negative consequences,
- 14 but I also believe that market forces alone will not
- 15 necessarily weed out the bad from the good, because what
- 16 we see in the literature is that market forces can create
- 17 both the bad and the good.
- MS. DWORK: Can I jump in here? This is not
- 19 advertising. Maybe it's a call to arms. So, instead of
- 20 answering the question of what trend do I see, here's a
- 21 trend I would like to see. I would like to see big data
- 22 being used to detect discrimination. I'd like to see big
- 23 data being used to find ways of countering
- 24 discrimination. I'd like to see big data being used to
- 25 analyze how people behave and know how to make

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- 1 some way or is scored in some way, that triggers a data
- 2 paradox. We can talk about it all we want and I'm happy
- 3 to talk about it with you for hours. I can tell you many
- 4 examples where "big data" has been used to help
- 5 consumers. I can also give you examples where the exact
- 6 same data has been used to hurt consumers. And that is
- 7 the data paradox. If you're a scientist, you may call it
- 8 the classification effect.
- 9 But bottom line, when you classify an
- 10 individual, you trigger this. And when that is
- 11 triggered, we have to do something about that in terms of
- 12 fairness structures. And one of the very big question is
- 13 what do we do.
- So, if you look, for example, at victims of
- 15 domestic violence, so in order to assist victims of crime
- 16 and domestic violence, they are put into a classification
- 17 as a victim of that crime. But if you talk to
- 18 individuals who are victims of these crimes, they don't
- 19 want to be in that classification because that reaps some
- 20 very difficult probabilistic analysis down the road and
- 21 they feel the effects of that, for example, when they pay
- 22 higher health insurance rates because they've been the
- 23 victim of a crime and they're assigned statistical risk.
- 24 People who have diseases and rare diseases and

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- 1 the same time, you can use the information to suppress,
- 2 to lead, to help, to heal, to hurt. So, how we solve
- 3 that problem of that data paradox is going to be really
- 4 what we need to get at moving forward in big data.
- DR. TURNER-LEE: Thank you to the FTC for
- 6 having me here at this conversation and to all of you for
- 7 attending.
- 8 So, I want to jump in. I think a lot of people
- 9 have already said some of the things that I want to say,
- 10 but I want to answer Tiffany's questions around trends in
- 11 the future of big data. Is it going to get bigger and is
- 12 it going to get better? And I want to say, yes, yes and
- 13 yes. I mean, every day we get out -- you know, I'm sure
- 14 it was said on the first panel, but every day we get tons
- 15 of data, individual bits of data collected about us that
- 16 goes into a dossier or portfolio that, in some way, has
- 17 an impact. And for social scientists like myself, who my own
- 18 plug is just working on a paper on privacy and minorities, we
- 19 don't know where that data is going in terms of its
- 20 social benefit, but, nonetheless, it's being collected
- 21 and it's being collected in an exponential manner.
- 22 I just attended a brief conference on the
- 23 internet of things and Cisco has basically stated that
- 24 the U.S. has a \$4.6 trillion stake in the internet of
- 25 things and the internet of things will only be successful

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- 1 the more data that we collect around the use of those
- 2 devices.
- 3 It's interesting when I think about data
- 4 analytics -- and I recently participated in a panel where
- 5 the question was, is there a good purpose for big data
- 6 and data analytics and data science? Clearly -- and at
- 7 MMTC, we represent under-served communities, particularly
- 8 minorities and other vulnerable populations -- data
- 9 analytics can certainly generate a social and community
- 10 benefit. When I think about healthcare and how it can
- 11 contribute to that -- I know we'll talk a little bit
- 12 about that, so I won't go too far into it or educational
- 13 outputs of value -- big data can, in some way, actually
- 14 help us solve social problems related to health
- 15 disparities, educational disparities, consumer --
- 16 disproportionate consumer impacts, et cetera,
- 17 environmental causes.
- One of the examples that I commonly use is when
- 19 you look at smart meters and low-income communities where
- 20 people tend to pay higher in terms of their rates,
- 21 there's a potential for big data to help us understand
- 22 better how to preserve income in the pockets of people
- 23 who are, you know, economically depressed. But at the
- 24 same time, create healthier communities and more
- 25 sustainable communities.

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- 1 All that is great, right? Even with education,
- 2 there's the opportunity to adapt the technologies and I
- 3 think some of the things you talked about in terms of
- 4 predictive analytics, to help us to better educate low-
- 5 income minority kids. Again, that's all great.
- 6 But as I said on a panel earlier or last week
- 7 Mark was on the panel with me -- the data must be
- 8 protected and aggregated in such a way because,
- 9 oftentimes minority groups are holding on so tight to the
- 10 one asset that they have, which is their identity, and we
- 11 often see that if improperly used -- and I think
- 12 Alessandro's paper was actually very good -- we can see
- 13 bouts of discriminatory behavior that actually impacts it
- 14 negatively.
- 15 So, take the energy example that I just gave,
- 16 whereas big data could be used for the purpose of
- 17 building more sustainable communities, it can also be
- 18 used to tell low-income people that you're not using your
- 19 energy too smart and possibly there's an opportunity for
- 20 a surcharge. Whereas predictive analytics in education
- 21 can actually be a good thing to help educators teach
- 22 better and parents be more engaged, it also suffers the
- 23 possibility of redlining students in the classroom.
- 24 So, we have to think really carefully about
- 25 this. And we, at MMTC, constantly struggle because we

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- 1 see the value of innovation and what it's actually done
- 2 in this society, while at the same time, for
- 3 disproportionately minority, senior, low-income
- 4 vulnerable populations, the question is can big data
- 5 produce a social benefit without having a subsequent harm
- 6 on those communities that are contributing to this. And
- 7 we've seen, particularly the FTC, examples where some of
- 8 those -- and I'm sure we're going to talk about it more
- 9 on the panel because we talked that we would -- but we've
- 10 seen examples where that discriminatory behavior has a
- 11 short-term impact and what we fear is a longer term
- 12 impact when it comes to civil rights.
- MS. GEORGE: Stuart, I'm sure you have
- 14 something you want to say.
- 15 MR. PRATT: Yes. So, I was invited late to
- 16 this panel, so I missed the conference call. And
- 17 Maneesha called me and said, Stuart, we'd like to have
- 18 you on a panel, but we've already held the conference
- 19 call. And, so, I guess I get to say whatever I want
- 20 because I'm not bounded by whatever was on the conference
- 21 call. No, so, but I was on an alternative scoring panel
- 22 earlier this year -- Pam and I were on the panel together
- 23 -- and I'm glad to be back again.
- Joe, I'm missing you here on the panel. So you
- 25 were on the first one, and taking good notes.

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- 1 So, I love this dialogue. It's a really,
- 2 really important dialogue. It's really important that we
- 3 wrestle with fairness and fair treatment. And that's
- 4 true for industry organizations, that's true for
- 5 academics, that's true for some of the nation's largest
- 6 and most successful companies in the United States. And
- 7 you've got a great sort of cross section of interests at
- 8 a table like this. And, candidly, really the best hope
- 9 we have coming out of this is that we don't just sit on
- 10 this panel facing outwards, but some day we're sort of
- 11 sitting around the table looking at each other and having
- 12 more of that dialogue.
- But, Tiffany, thanks for pulling this panel
- 14 together and for leading our discussion.
- 15 So, CDIA is much more -- our members, as the
- 16 Consumer Data Industry Association, we're much more
- 17 focused on risk management. So, it's a -- we often are
- 18 operating data systems, databases, which are a little
- 19 closer to laws we have on the books today and we're a
- 20 little further away, if you will, from the question of
- 21 how you categorize consumers in order to reach them with
- 22 the right offer. There's some of that. But we're more
- 23 often dealing with and pushing data into the transaction
- 24 with regard to how am I treated once I'm heading into
- 25 that transaction.

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1 So, for example, the Equal Credit Opportunity 2 Act, very important law which addresses core fairness questions relative to credit, of course. 3 4 Housing Act, which addresses core questions relative to 5 how I'm treated. But by the way, interestingly enough, 6 both ECOA and Fair Housing also address, to some extent, advertising. They have implications for what do I say 7 8 when I advertise, where do I advertise. So, there are 9 implications. Certainly, current laws wrap around at 10 least some of the dialogue that we listened to -- and I thought it was a great, you know, first panel -- but 11 12 those laws are out there today. 13 And I do think that that's part of the analysis going forward. You know, how do current laws address 14 fairness and how sufficiently protective are they in some 15 of these transactions? Because our members are involved 16 17 in a telecom company's approval of a consumer, an 18 insurance company's underwriting a decision, a lender's 19 decision to make a -- what we'll call a risk-based offer 20 of credit and, of course, we've talked a lot about credit scores and they're a rank ordering system. And, in fact, we 21 think it's a very effective rank ordering system and it's 22 23 important for us to have systems that rank order risk.

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Why is that? In the United States, we might

lean towards safety and soundness because, in fact, the

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- 1 great recession would tell us safety and soundness is a
- 2 whole lot more important than maybe we ever thought and
- 3 we actually could break the system here in the United
- 4 States and we got pretty close to it.
- If you go to Europe, they would say credit
- 6 reporting systems, data systems like those that the CDIA
- 7 speaks for, are very important because we want to make

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- 1 that because it's, you know, sometimes, to some extent,
- 2 law, but also because of market interest. This broadens
- 3 our markets for consumers to engage in a successful
- 4 product.
- 5 And, again, it's the 50 or 60 million sometimes
- 6 called credit invisibles in this country. How do we
- 7 reach them? Well, we need public record data sources.
- 8 We need utility information because some consumers pay
- 9 utilities, but they may not be paying on a credit account
- 10 of some type. We need telecom because telecom is
- 11 ubiquitous and deeply penetrated into communities of
- 12 color in this country and used properly, used wisely,
- 13 used effectively, used fairly. These systems are the
- 14 kind of systems these data sets and the analytical tools
- 15 to back them up are going to empower consumers and we
- 16 will push deeper, but successfully into these markets,
- 17 successful for those communities and also successful for
- 18 sort of economic benefits very broadly. So, food for
- 19 thought.
- MS. DIXON: So, to pick up on Stuart's
- 21 comments, the -- actually having you on this panel, I
- 22 think it's a great idea because regulated industries are
- 23 already using little bits and pieces of things that are
- 24 working, such as the Fair Credit Reporting Act and, for
- 25 example, HIPAA and folks who are regulated by the common

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- 1 you know, in these conversations, for those of us that
- 2 are entrenched in the telecom space, you know, broadband
- 3 adoption here, data here, you know, broadband-enabled

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- 1 something that I may not perceive to be predatory in the
- 2 offline space translates to what I'm searching in the
- 3 online space, which then leads to some type of predictive
- 4 marketing in the types of products and services that I
- 5 use.
- 6 So, I think we have to solve that problem. And
- 7 I constantly tell people the broadband adoption digital
- 8 divide issue has not gone away, because I think when you
- 9 have the dearth of data particularly for vulnerable
- 10 minority populations and data is driving certain
- 11 decision-making and driving certain efficiencies, you
- 12 then disadvantage a whole group of people that, in some
- 13 way, to your first question, right, could benefit from
- 14 the positives of big data. They get left out or their
- 15 results get skewed because the proportion of people that
- 16 are participating may not have these other factors that,
- 17 you know, the literacy and the readiness at hand to
- 18 equally participate.
- So, I think the inclusion piece, you know, the
- 20 Center for Data Innovation, just a last point, calls it
- 21 the data divide, you know, it still goes back to the data
- 22 and inclusion divide on how you look at this big picture.
- 23 MR. PRATT: So, I would add that one of the
- 24 approaches our industry has taken, though, whether it's a
- 25 fraud prevention tool -- and by the way, we live very

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- 1 much in the fraud prevention world and in the -- sort of
- 2 the ability to pay world and really everything -- all
- 3 that data that flows into that transaction, for example,
- 4 where I've made an application. Of course, it's a
- 5 question of what application am I making and when did I
- 6 learn about it and those sorts of things as well.
- 7 But we sometimes look for -- I'm going to use a
- 8 term that we've used at CDIA -- necessary services, so
- 9 ubiquity. In other words, there is a question of that.
- 10 In other words, when you pick new data sources and you're
- 11 trying to use a new data source, you want a data source
- 12 that is broadly used. And, so, utility data is, by
- 13 example, a type of data because virtually anyone who has
- 14 -- no matter where you live, you are likely paying for a
- 15 utility of some sort. It could be very straightforward,
- 16 you know, water service and this sort of thing,
- 17 electricity, and then telecom is an example of, again,
- 18 where you have a fairly ubiquitous set of data. You're
- 19 pushed deeper into communities that are economically
- 20 disadvantaged who may not actually be engaged in a lot of
- 21 the other types of credit activities.
- 22 I serve on a World Bank task force. We talk a
- 23 lot about this. In fact, we're flying in probably 30
- 24 central bankers to Dubai for a meeting to talk about data
- 25 sets that can be used in various parts of the world to

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- 1 create SME-based lending, which is often, you know, small
- 2 to medium enterprise lending, but it ties in with really
- 3 personal loans as well. It's almost the same thing as
- 4 conterminous in a lot of places. But the idea is what
- 5 data sets are out there. Colombia, for example, not
- 6 South Carolina, Colombia uses telecom data widely.
- 7 By the way, the Credit Builders Alliance is a
- 8 great group to take a look at when it comes to trying to
- 9 segment the population of consumers who may be credit
- 10 invisible. So, for example, Credit Builders Alliance
- 11 focuses not on the under-banked, but really on the
- 12 unbanked, those consumers who probably have the greatest
- 13 financial stress in their households. And there's a
- 14 group called Axion down in San Antonio, Texas, and
- 15 they're experimenting with different data systems, which
- 16 are interactive with the consumer, to try to build a data
- 17 set which allows them to predict success.
- 18 CBA aggregates these small loans that are
- 19 urban-centered loans, that are often minority-focused
- 20 loans, that are sometimes tribal-lending systems as well,
- 21 and that data flows back into traditional credit
- 22 reporting systems, for example. We have other members,
- 23 for example, who aren't running a traditional credit
- 24 bureau, but have stood up completely new data systems --
- 25 Mark discussed one of them -- where we can reach new

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1 populations for the first time using entirely different

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- 1 which leads to success on both sides.
- 2 MS. GEORGE: Okay. So, I want to talk a little
- 3 bit more about this notion of privacy, which some of you
- 4 have touched on. And we've heard some mention in the
- 5 comments to this workshop about the role of data-
- 6 obscuring technologies or techniques or privacy-enhancing
- 7 technologies, such as de-identification. Is there a role
- 8 for those types of techniques going forward and are there
- 9 some that are better than others? I know Cynthia wants
- 10 to say something.
- 11 MS. DWORK: I think that privacy and fairness
- 12 are completely unrelated and simply don't understand what
- 13 de-identification would have to do with this discussion
- 14 at all. But going back to privacy or questions of hiding
- 15 information from the classifier, as Alessandro said, I do
- 16 have some examples there.
- So, if you have a really well-trained
- 18 classifier and if you want to train a classifier well,
- 19 you want to give it as much information as possible. So,
- 20 for example, hearing voices may be diagnostic of
- 21 schizophrenia in one population, and in another
- 22 population, it might be part of a common religious
- 23 experience.
- 24 You could have, theoretically, a minority group
- 25 that is -- in which bright students are steered toward

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- 1 mathematics and you might have a majority population in
- 2 which the bright students are steered toward finance, and
- 3 if the minority is very small compared to the majority
- 4 and you're looking for a quick and dirty classifier to
- 5 find bright students, you might just look for finance.
- 6 But that would be neither fair to the minority, nor would
- 7 it be giving optimal utility because you would miss out
- 8 on the gems in the minority.
- 9 And, so, there is a role for using as much
- 10 information as possible, and withholding information
- 11 would be inappropriate in those contexts.
- MS. DIXON: Well, you ke3

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- 1 really big markers that tell me that it is an immature --
- 2 in an immature state. Number one, there is no firm
- 3 scalpel-like legislative definition of big data. Now, I
- 4 know what big data is, we all do in this room, right?
- 5 But show me an actual legislative definition of it, and I
- 6 know that you can't right now because there isn't one
- 7 yet. There will be, but not yet.
- 8 So, the second thing that indicates that big
- 9 data is currently a bit raw and unformed is there are no
- 10 global solutions to the various problems that it poses.
- 11 Right now, though, there are focused solutions and what I
- 12 would call also local solutions to specific problems,

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- 1 Principles, these are very important. We can't just toss
- 2 them out because there are some weird things happening.
- 3 So, we need these old structures.
- 4 And on top of that, to address your question,
- 5 what do we do, we need to look at what do we do in terms
- 6 of what I would call statistical parity. We have to have
- 7 statistical parity, statistical fairness. And there are
- 8 ways of achieving that. So, it's these fairness
- 9 structures and statistical parity.
- So, for example, Stuart said something very
- 11 compelling about how you're choosing the data sets. That
- 12 is part of statistical parity. Where are you getting
- 13 your data? Was it from people who volunteered this data
- 14 or was it coerced? Was there mandatory classification of
- 15 people? Was someonellls.qpiT box.qpiT mandatory way that
- 16 they maybe didn't want to be or didn't know about? So,
- 17 these are all very significant considerations.gpihow we
- 18 deal with the fairness and privacy piece, because there
- 19 is information that is so deeply prejudicial that it
- 20 really is a classifier killer.
- 21 So, for example, if someonelis found to have
- 22 HIV/AIDS, it really breaks a lot of the classifications
- 23 that they're gpiTnd really impacts the outllss. And in
- other language, that might be called sensitive
- 25 information, bls.qt's also highly prejudicial, iTnd we

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- 1 need to really understand that privacy has a role in this
- 2 because there is some information we need to think about
- 3 not collecting, and if we do collect it, we have to
- 4 protect it. HIPAA was right in how it handled that. It
- 5 handles medical research for human subject research
- 6 protection, there is very meaningful robust consent in
- 7 what's called an IRB process, Institutional Review Board.
- 8 And, so, there are examples already in place where we can
- 9 go.
- 10 MS. DWORK: So, first of all, having worked for
- 11 more than a decade on privacy preserving data analysis, I
- 12 don't want anyone to think that I don't care about
- 13 privacy. I do care about privacy. I'm just saying that,
- 14 intellectually, mathematically, privacy and fairness are
- 15 not necessarily the same thing. What you're talking
- 16 about is the inability of the people who are making
- 17 decisions to disassociate certain pieces of information
- 18 from the decision. And what is really going on here is
- 19 that you're searching for -- and very, very appropriately
- 20 -- you're searching for some kind of a measurement for
- 21 any particular classification test, you're searching for
- 22 a way of measuring how similar or dissimilar are two
- 23 people for this particular classification task.
- MS. DIXON: That's right.
- 25 MS. DWORK: And quite possibly, the very best

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- 1 measurement that society and math together could come up
- 2 with would involve all sorts of factors. But you don't
- 3 trust the people or the machines or whatever that are
- 4 making the decisions right now to give them all of the
- 5 information, and that's probably very reasonable.
- 6 MR. MACCARTHY: So, let me jump in here. I
- 7 think this -- you know, this is a very abstract and
- 8 almost philosophical question. If you look at some of
- 9 Cynthia's work, I was just telling her she defines this
- 10 concept of relevant similarity as a way of first saying
- 11 do that and then go into maximizing utility. We've heard
- 12 that before. Immanuel Kant said that in his theory about
- 13 ethics. So, we're dealing with some pretty abstract and
- 14 philosophical questions when we come to this stuff.
- 15 And at the level of social policy, at the level
- 16 of what we think is fair and what we think is just, I
- 17 think a lot of the discussions we're having here, they
- 18 may seem to be about data and how to interpret data and
- 19 so on, but I think they really go back to some of these
- 20 basic ethical and philosophical questions. So, I do
- 21 think we need to take a step back and not to think about
- 22 these issues as if they were issues about data and
- 23 analytics, but they really are pretty broad social
- 24 questions.
- 25 So, for example, do we need to have a special

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- 1 social policy towards big data? My instinct is no, big
- 2 data is just an evolution of what's been going on in the
- 3 data analytics world for generations and to think we need
- 4 to have a special set of laws or best practices just to
- 5 pick up the big data subset of all data analysis, I think
- 6 is the wrong direction to be thinking about. I do think
- 7 we need to focus not on kind of global solutions to all
- 8 these problems, but to go back to the specifics.
- 9 As Stuart's been saying, you know, there is a
- 10 well-developed body of law that surrounds certain uses of
- 11 information and we've chosen to put that body of law in
- 12 place because we think, in those areas, concerns about
- 13 social policy are the greatest and, so, we need a large
- 14 sort of set of protections for that.
- In other areas, where Mallory was talking about
- 16 sending catalogs to men rather than to women or
- 17 advertisements for cars that appeal to men, our social
- 18 concerns are a whole lot less. So, the idea that we
- 19 would have one set of rules, one set of fairness
- 20 requirements, one set of access requirements that goes
- 21 across all data uses, I do think that's the wrong
- 22 direction to go in.
- 23 DR. TURNER-LEE: So, I want to jump in because
- 24 I think I agree, to a certain extent, though, with
- 25 regards to having some framework, though, of what

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- 1 transparency and the purpose of your data looks like. I
- 2 mean, I'm a big fan of the FIPPS, to a certain extent,
- 3 when it comes to privacy concerns, because I think that
- 4 people have to understand that their data is being used
- 5 for particular purposes.
- And in the internet, while I agree with Stuart
- 7 that you actually have different bodies of policy buckets
- 8 and privacy parameters that actually define how your data
- 9 is being used, let's face it, the internet is this big,
- 10 big buffet of places that you can go. It's not that
- 11 simple any more to actually say, well, I'm going to the
- 12 internet for this or I'm going for that. You know,
- 13 people are going to the internet to engage in a multiple
- 14 range of activities that, at some point, get muddled
- 15 because it's not necessarily going into your Safeway and
- 16 giving your email address so that you can get benefits on
- 17 your grocery shopping at Safeway, right?
- When you give your email address on the
- 19 internet, you know, there's a data information service
- 20 that is taking that information and creating algorithms
- 21 of where to direct you and how to advertise towards you.
- 22 There's probably a search that you did that brings up,
- 23 you know, a healthcare provider. You know, you might
- 24 have gone and bought red shoes and the next thing you
- 25 know you're getting red shoes advertisements, ladies,

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- 1 right, for just one purchase that you made.
- 2 So, I think it's such a hard ecosystem to sort
- 3 of distinguish between this is why people are going to
- 4 the internet for this particular purpose. So, I think a
- 5 general framework, like the FIPPS, is actually
- 6 appropriate to help us figure out how do you
- 7 ensure that the input of data, whether it's big or, you
- 8 know, small data, does not impute cultural stereotypes as
- 9 well as cultural cliches that actually lend itself to
- 10 predatory behavior and actions on the part of, you know,
- 11 the online space. I think that's so important.
- 12 I mean, we've seen it with segmented marketing
- 13 where, again -- you know, again, for people of color --
- 14 and this is interesting because I'm doing a paper on this
- 15 -- from the long term, we've not been able to see the
- 16 exact civil rights infraction that happens because, you
- 17 know, someone has seen something on my Facebook page or I
- 18 put up a post. But it's going to happen. It's just a
- 19 matter of time that we're going to see that type of
- 20 predictive analytics or algorithms defined and, you know,
- 21 discriminate against people.
- The question becomes, do most consumers know
- 23 that when they participate -- particularly for minority
- 24 consumers who over-index in social media when they are on
- 25 and over-index, you know, on the internet as new users

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### 9/15/2014

- 1 because they're experimenting, exploring and trying to
- 2 attain the aspirations of other internet users, do they
- 3 understand how their data is being used? Do they
- 4 understand what distinguishes their private personal
- 5 identifiable data from data that they're actually
- 6 basically contributing to the ecosystem, you know, just
- 7 because they want to be part of the conversation?
- 8 And, so, I think those are clear distinctions.
- 9 Again, it was brought up in your paper, Alessandro, about
- 10 that. But those are things that we look at at MMTC, you
- 11 know, will that have an impact on someone's ability to
- 12 get a job or healthcare or, you know, something of social
- 13 value, not necessarily their ability to stream content,
- 14 but something of social value that will essentially --
- 15 you know, when they are applying for a car loan, you
- 16 know, will give them higher rates, and I think that's
- 17 really important to put in this conversation.
- 18 MR. ACQUISTI: I wanted to connect what Nicol
- 19 just said to something Cynthia said and something Solon
- 20 this morning was mentioning. So, I'm ready to believe
- 21 that most of the times more data may decrease
- 22 discrimination, increase fairness, increase efficiency,
- 23 but it's also the case that the opposite may happen.
- 24 Some examples were given this morning by Solon talking
- 25 about when data mining discriminates, and the other point

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### 9/15/2014

- 1 was made by Cynthia when it is the human decision-maker
- 2 with his heuristics and biases, which makes incorrect or
- 3 biased usage of the information or even analysis made
- 4 available to him.
- 5 The case in point Nicol was referring to was
- 6 this experiment we did on the impact that social media
- 7 information has on the hiring behavior of a U.S.
- 8 employer. So, we did this experiment in which we applied
- 9 to over 4,000 American employers, we have CVs, resumes,
- 10 which were identical in terms of educational attainments
- 11 and professional achievements for different candidates.
- 12 However, we had also created social media profiles for
- 13 these candidates. So, we wanted to see whether employers
- 14 would go online and search for the personal information.
- And employers did. And ed socialbfnal i(15)-1747wur the

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- 1 legislature who decided to have regulatory protections to
- 2 certain traits so that certain traits should not be asked
- 3 about in interviews or should not be used in the hiring

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- 1 big ways this is happening is in retail transactions.
- 2 So, if you look at a lot of the data broker
- 3 lists and a lot of other data about how our data is being
- 4 gathered for classification, one of the big ways this is
- 5 happening is through the analysis of our retail
- 6 purchases, and it's like, okay, so who's doing this? Is
- 7 this just, you know, debit and credit card? How is this
- 8 happening and can I opt out? Is there a notice about
- 9 this? I think this is a very in-the-weeds specific
- 10 example of you don't have to be on social media to have
- 11 this issue impact your life. And we're talking about
- 12 long-term, you know, big patterns here. You know, is
- 13 someone purchasing over-the-counter medication? Is
- 14 someone purchasing wound care for someone who had a
- 15 serious injury? Is someone a diabetic because they
- 16 bought a magazine, you know, that may infer that?
- 17 And then we can game it on the other side. Did
- 18 you buy hiking boots? Did you go to REI? Are you
- 19 subscribing to a running magazine? Cool. This will help
- 20 your -- perhaps your health plan to charge you less. So
- 21 you can game it on all sides.
- 22 But the question we really have to ask going
- 23 forward is what's happening here and what structures can
- 24 we use to ensure that there is fair information
- 25 principles that are encoded into all of these processes

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- 1 paper involved experiments that were done in which people
- 2 had changed their categorizations on Google and it did
- 3 not have the anticipated change in advertising.
- 4 MS. DIXON: Oh, interesting.
- 5 MS. DWORK: So, I'm sorry I'm not informed in
- 6 more detail, but I suggest that people look this up.
- 7 MS. DIXON: Yes. That's interesting.
- 8 MR. PRATT: You can see how in this dialogue
- 9 we're beginning to sort of categorize uses as well. In
- 10 other words, categorize -- and I think that's important
- 11 that we begin to unpack this dialogue and not allow big
- 12 data to just get squished together into a sort of
- 13 singular dialogue. The kind of data sets that a CDIA
- 14 member has are really -- they're not often -- and
- 15 certainly not for risk management purposes, kind of big
- 16 data that is derived from my search engine searches, the
- 17 websites to which I go.
- There are some lenders that are experimenting
- 19 with the use of that kind of data. Consumers are
- 20 essentially opting in to do business with that lender.
- 21 It is important to know that that lender is still
- 22 obligated to live by the Equal Credit Opportunity Act.
- 23 So, even though -- so, there's an example of a lender
- 24 with kind of a closed system of data and the consumer
- 25 said, yes, you can use this data. I don't have

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- 1 traditional data sets, you know, for you to be able to
- 2 make that lending decision. So, I do think that's
- 3 occurring.
- Also, we haven't talked too much about it and
- 5 I'm not sure that these terms apply quite as often today,
- 6 but really structured versus unstructured data is also
- 7 part of the discussion. You know, unstructured data
- 8 might be data that's more so less directly identified
- 9 with me. It depends on whether you think an IP address
- 10 is personally identifiable information or not.
- 11 MS. DWORK: Yes, it is.
- MR. PRATT: No, it's not.
- MS. DWORK: Yes, it is.
- 14 (Laughter.)
- 15 MR. PRATT: And later, we're going to be doing
- 16 a little song and dance, it's going to be really good.
- 17 But I would argue that IPs can be associated with
- 18 individuals. But the question is, our databases that our
- 19 members build are still based on identifying information
- 20 of the traditional type because our members are building
- 21 -- if they're building a database for purposes of an
- 22 eligibility decision under the Fair Credit Reporting Act,
- 23 then they have to build the database along a certain set
- 24 of lines to make sure it's accurate and meets the
- 25 accuracy standard. And this kind of goes to the point.

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- So, one of the questions is whether you use the
- 2 FCRA as the template or whether you use a fair
- 3 information practices template of some sort, and there's
- 4 many of them out there, I tend to like APEC'S better than
- 5 some others -- you know, the question is when do you
- 6 apply the template and in how nuanced a way do you
- 7 apply that template to that kind of information.
- 8 So, there's a lot of advertising activity going
- 9 on out there. Our members -- like I said, our members
- 10 tend to have a structured data set. It tends to be built
- 11 off of identifying information. It tends to be wrapped
- 12 in a law, like the Gramm-Leach-Bliley Act. You can build
- 13 a fraud prevention tool to protect consumers, but it's

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- 1 step of the process. I had a -- I was on a panel in
- 2 Berlin where, oddly enough, milk production was used as
- 3 the example here in terms of regulatory strategy. And at
- 4 least in Germany, this fellow, this economist described
- 5 the German government regulates every step of the process
- 6 in milk production. So, really it's a -- forgive the pun
- 7 -- a homogenized approach to milk production. You really
- 8 have no strategy by which you're going to be able to
- 9 remove cost from the market and be able to improve your
- 10 margin even if you have a very -- you know, a very
- 11 structured price structure on the back end.
- 12 Here in the United States, we don't tend to
- 13 regulate every step of the milk production process; we
- 14 test at the end to see if the milk is homogenized
- 15 properly, if it is -- meets the purification standards
- 16 and so on and so forth.
- So, we're kind of getting deep into this very,
- 18 I think, almost philosophical discussion, as Mark termed
- 19 it, and I think that's right. What template do we use
- 20 for what type of use? When is categorization an issue of
- 21 harm, for example, might be one way to think of it. When
- 22 is categorization just a question of whether I got a
- 23 catalog that was applicable to me as a buyer of certain
- 24 products in the marketplace?
- 25 But I do think we're doing pretty well as a

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- 1 country in terms of eligibility. When data is used as a
- 2 gatekeeper, that data is regulated by a fair information
- 3 practices structure under the Fair Credit Reporting Act.
- 4 When data is used for fraud prevention, there's a law
- 5 that wraps around it. When data is used in all those
- 6 transactions, there's quite frequently, in fact, very
- 7 definitively in the context of insurance and in the
- 8 context of credit and fair housing, in particular, and
- 9 the equal -- and then the EEOC as well, there are laws
- 10 which establish the baseline result that we expect, and
- 11 we expect to see a result which is fair for all, fair
- 12 treatment for all, and that we've even established,
- 13 rightly so, protected classes, because we have found
- 14 problems in our society where we did not identify these
- 15 protected classes.
- MS. GEORGE: So, that's actually the perfect
- 17 segue to my next question, which was, as we move forward
- 18 in this era of big data and these new practices, what is
- 19 the model? Should it be based on use? Should it be
- 20 based on harm? Should it be based on data collection
- 21 methods, active versus passive? Like what are the
- 22 guideposts that we should be looking for as we emerge
- 23 into the future?
- 24 MR. MACCARTHY: So, let me quickly jump, if I
- 25 could --

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- 1 MS. DIXON: I'll go next.
- 2 MR. MACCARTHY: Yes. I think you touched on
- 3 the two big ones, which are use and harm. This brings us
- 4 back to the, you know, very specific discussion of very
- 5 specific ways in which information is used and how people
- 6 can be damaged. And I do think we -- sometimes more
- 7 information is better in order to achieve the particular
- 8 outcome that we want. Sometimes more information is not
- 9 so good. I mean, there's the famous experiment, natural
- 10 experiment in why classical orchestras were all men for
- 11 years and years and years. It was because the conductor
- 12 would look at the people who are actually performing the
- 13 music and notice which ones were men and which ones were
- 14 women. But when you put them behind a barrier so you
- 15 couldn't tell what the sex was, suddenly, it became
- 16 50/50, you know. Withdrawing information, in that
- 17 particular situation, was something that was very helpful
- 18 in avoiding a discriminatory problem.
- 19 For many uses of racial and ethnic information,
- 20 the decision makers aren't even allowed to know about
- 21 race and ethnicity. So, we want to keep that information
- 22 secret. Maybe privacy there promotes fairness.
- 23 But sometimes more information is more. All
- 24 these products that we've been talking about, the
- 25 alternative data products, they require more information

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- 1 about people in order to accomplish their good purpose.
- 2 The -- another example, and this goes back to
- 3 your point, will businesses and others, you know, try to
- 4 reach out and try to solve these problems? Well, most
- 5 companies want to have a diversity program where they
- 6 reach out to make sure that their workforce looks like
- 7 America and they want help to do it. There's a new
- 8 service provided by a company called Entelo that will use
- 9 information, social network information, information on
- 10 the web, it's in the FPF study, which I mentioned earlier
- 11 before. And the idea is using this kind of proprietary
- 12 tool, you'll be able, as a company -- be able to target
- 13 your recruitment efforts to try to get at the kind of
- 14 people who will be qualified for your work and yet will
- 15 satisfy your diversity requirements.
- So, the uses of information, how much you need,
- 17 where it comes from, how it's used, those are all
- 18 relevant factors. I don't think there's a template,
- 19 there's no one-size-fits-all, here's how we do it all
- 20 circumstances and for all purposes. But I do think if we
- 21 pay close attention to the actual uses and the dangers
- 22 we're trying to guard against, we can make some progress.
- MS. DIXON: So, great question, and I
- 24 appreciate your comments, Mark. They were very
- 25 thoughtful.

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- 1 So, I want to talk about medical just really
- 2 briefly because it really does provide a really
- 3 intriguing example. So, if you look at the issue of
- 4 medical research, a lot of folks will cite medical
- 5 research as a perfect example of how to handle big data.
- 6 And, you know, medical research is intriguing on a lot of
- 7 levels. If you look at the various ways that the ethics
- 8 of how privacy works in the medical field are crafted,
- 9 it's absolutely fascinating.
- So, to kind of dive in, if you look at human
- 11 research subject protection, that's where the strongest
- 12 medical privacy protections are, if you're doing research
- 13 that impacts human subjects. So, if you're federally
- 14 funded, you're going to be captured under something
- 15 called the Common Rule. The Common Rule is a regulation,
- 16 so that is regulated. You will have to get meaningful
- 17 consent from the individual in order to participate, and
- 18 it's all run under an IRB process.
- 19 That Common Rule is very complex and it was
- 20 built on something called the Belmont Report, which was
- 21 not a piece of legislation. The Belmont Report was built
- 22 on something called the Nuremberg Code, which was an
- 23 ethical code developed after the World War to prevent any
- 24 kind of human research atrocities from ever occurring
- 25 again. The Nuremberg Code had, as its absolute bedrock

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- 1 foundation, human consent as absolutely the bedrock of
- 2 what has to happen in human subject research protection.
- 3 And even though the Nuremberg Code was an

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- 1 technology, of attached metadata showing the provenance
- 2 of personal information is not really that far -- that
- 3 science-fiction-like. Otherwise, if you keep having big
- 4 data for consumers and only trade secrets for firms and
- 5 how firms use data, that's the kind of information
- 6 asymmetry which economic literature tells us will
- 7 reiterate rent positions and economic imbalances.
- 8 MS. GEORGE: We're drawing to a close here, so
- 9 I just want to remind the audience, if you have any
- 10 questions that you'd like to submit to the panel, we have
- 11 staff around the room who can collect your question
- 12 cards. And in the meantime, I'm going to pose one final
- 13 question to the panel before we start wrapping up.
- So, on this notion of transparency and control,
- 15 there's been some suggestion that providing more control
- 16 to consumers is the solution to the problems of big data,
- 17 providing technology and techniques for consumers to be
- 18 able to control how their data is collected and what
- 19 happens to them. Are there limitations to that proposal
- 20 or is that the solution to this problem that we've been
- 21 discussing? And, Nicol, I want to start with you.
- 22 DR. TURNER-LEE: Yeah, I mean, this is a very
- 23 interesting question because this whole time I've been
- 24 talking about empowering consumers, right. But I think
- 25 it was mentioned earlier about this whole concept of opt-

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1 out, right. And because there's going to be some data

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- 1 does it balance use versus harm, right, with allowing
- 2 some flexibility for the collection of data that will
- 3 help us for the purposes, again, of efficiency and public
- 4 good, and the extent to which consumers, you know, from
- 5 the front -- I mean, that's another -- when we start
- 6 talking about this -- and, you know, not to make this
- 7 long-winded, but when we start talking about this, when I
- 8 was at Joint Center for Political and Economic Studies
- 9 years ago, we did just a raw review of privacy policies
- 10 and we recognized that, in some cases, you had to have a
- 11 PhD or a JD just to read the privacy policy. You know,
- 12 after we ran them through the fluency indicator, you
- 13 know, the level of what people are engaged in is
- 14 sometimes not known, you know, in terms of what they're
- 15 actually getting into.
- So, I think the opportunity to look at creative
- 17 solutions, like an opt-out or allowing people -- you
- 18 know, we should not have it where we look at consumer
- 19 protection when a bad actor, you know, comes to the play
- 20 or a bad action happens, because that's probably hardest
- 21 to actually reverse at that time, particularly for,
- 22 again, minority communities. When your credit is
- 23 compromised and you don't own a home or you don't have a
- 24 bank account, the biggest asset you have is your social
- 25 security number. Imagine what it's like for a senior

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- 1 African American woman to have to repair her social
- 2 security and her credit, you know, because of an
- 3 infraction of harm.
- 4 So, we have to figure out ways for people to
- 5 have a lot more knowledge as to, you know, one, the
- 6 internet is a participatory environment and, in some
- 7 cases, you'll know when your data's being collected and
- 8 sometimes you won't, right. Two, when I feel that there
- 9 is some particular harm or some type of compromise in
- 10 terms of my personally identifiable data, in particular,
- 11 right, I have that decision to opt out. And, three,
- 12 going back to my earlier notion about the internet of
- things, I have the ability to say I don't want my data
- 14 looked at if it's pertinent to me as an individual, you
- 15 know, and not necessarily something that's more pertinent
- 16 to the broader group.
- So, I'll pass it over to you.
- 18 MR. PRATT: Thank you. Yeah, I think it's, in
- 19 some ways, an all-of-the-above strategy, meaning you
- 20 really need to look situationally at the nature of the
- 21 data and really fair information practices are not a
- 22 model --
- DR. TURNER-LEE: Right.
- 24 MR. PRATT: Even if you were to look at a FIPPS
- 25 model, it's not monolithic. I remember working with the

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1 them, right, to kind of -- so I could actually see what

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- 1 minutes, so I'm going to ask if anyone has any final
- 2 thoughts because we don't want to keep people from their
- 3 lunch.
- 4 MR. MACCARTHY: The only quick thought I've got
- 5 is that this focus on use and harm is a really
- 6 alternative way of thinking about these things. If you
- 7 put too much weight on the alternative of giving
- 8 information to users, being transparent and then letting
- 9 them choose, that's really your focus and you're really
- 10 pushing that as your major defense against unfairness and
- 11 privacy invasions, you got to do it. In some cases,
- 12 human subject experimentation is not something we want to
- 13 sort of make decisions for people. But if that's your
- 14 universal solution, I think you're really doing customers
- 15 and consumers a disservice.
- You're responsibilizing your own users, you're
- 17 telling them it's their problem, you figure it out.

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- 1 for fair and appropriate use, that I think points in the
- 2 direction of putting the responsibility more where it
- 3 lies, not simply on the data subject to protect himself
- 4 completely.
- 5 MS. DWORK: So, that actually comes back to the

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- 1 let's -- you know, let's throw out collection limitation
- 2 because it's too hard and let's just focus on uses. And
- 3 then there's discussion of, oh, well, let's not -- let's
- 4 not control uses, let's focus only on collection
- 5 limitation.
- 6 Look, right now, we're in a situation where we
- 7 have many multiple overlapping remedies and I think
- 8 that's going to be the case for quite some time and we
- 9 need to look at those remedies, really study them, see
- 10 where they're working and how, and look to see what's
- 11 important and what we need to focus on, where are the
- 12 real problems and where are the most disparities
- 13 occurring, and let's fix those and move through the
- 14 ecosystem with it.
- 15 MS. GEORGE: Alessandro, you have anything
- 16 else?
- 17 MR. ACQUISTI: In essence, my final remark was
- 18 my point about the provenance, data provenance, and kind
- 19 of applying the same rules of big data to consumers to
- 20 firms' handling of consumers' data.
- 21 MS. GEORGE: Well, thank you very much for this
- 22 lively discussion. We did get a couple of questions at
- 23 the end which we're not going to get a chance to discuss,
- 24 but our panelists, I think, will be around this afternoon
- 25 if you want to talk to them. I want to thank each of you

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1	AFTERNOON SESSION				
2	(1:22 p.m.)				
3	MS. ARMSTRONG: I think we're going to get				
4	started in a few minutes, everyone.				
5	All right, gang, how was lunch? Okay, time to				
6	find your spot without your food or beverage.				
7	Great. Thank you, everyone for joining us this				
8	afternoon. The afternoon session is going to be				
9	Commissioner Brill is going to give opening remarks to				
10	the afternoon session and so without further ado, here is				
11	Commissioner Brill, who needs no introduction.				
12	(Applause.)				
13	REMARKS BY COMMISSIONER JULIE BRILL				
14	COMMISSIONER BRILL: Thanks, everybody. Before				
15	I begin, let me just say thank you so much to Katherine,				
16	to Tiffany, to Patrick Eagan-Van Meter				
17	, and Katherine Worthman,				
18	to all the folks at the FTC who have been working so hard				
19	on this workshop. I think that the quality of the panels				
20	this morning, the quality of the panels this afternoon,				
21	show you how much work they put in to organizing this				
22	event. So, can we just have a quick round of applause				
23	for the FTC staff.				
24	(Applause.)				

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COMMISSIONER BRILL: And thanks to all of you

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- 1 housing and other transactions initiated by consumers.
- 2 It covers not only credit bureaus, but also, importantly,
- 3 their sources and their clients.
- 4 The FCRA gives consumers important rights. For
- 5 instance, consumers are entitled to have access to their
- 6 data, to challenge its accuracy, to have irrelevant data
- 7 removed. And to be notified when they are denied credit
- 8 or get a loan at less than favorable rates because of
- 9 negative information in their files.
- 10 The use of credit scores has thrived under the
- 11 FCRA's rights of notice, access, correction, relevancy
- 12 and accuracy. And the FCRA has enabled the credit
- 13 reporting enterprise to serve a purpose useful not only
- 14 to the credit reporting agencies and their clients, but
- 15 also to consumers.
- The credit scores that first emerged from
- 17 analysis of consumers' credit files broadened access to
- 18 credit and made determinations of a particular consumer's
- 19 worthiness more efficient and more objective, than the
- 20 case was with prior, more subjective, determinations.
- Now, as scoring models began to proliferate and
- 22 enter into new types of decisions, including employment,
- 23 insurance and mortgage lending, consumers and regulators
- 24 grew concerned about what exactly was going on within
- 25 these models. Some of the most important questions were

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- 1 whether credit-related scores were using variables that
- 2 act as proxies for race, ethnicity, age and other
- 3 protected categories.
- 4 In 2003 Congress directed the Federal Trade
- 5 Commission and the Federal Reserve to study these
- 6 questions in the context of credit-based insurance scores
- 7 and traditional credit scores. After extensive and
- 8 rigorous studies, both agencies found that the scores
- 9 they examined largely did not serve as proxies for race
- 10 or ethnicity. The FTC and Federal Reserve reports shed a
- 11 lot of light on traditional credit scores and assuaged
- 12 some important concerns, which was good for everyone
- 13 involved -- consumers, credit bureaus, and credit score
- 14 users.
- Now, let's fast forward to today. We're now
- 16 seeing a proliferation of other types of scores being
- 17 used to make FCRA covered eligibility determinations.
- 18 While these scores are subject -- or, many of them are
- 19 subject to the same obligations of access, accuracy,
- 20 security and other requirements imposed by the FCRA, they
- 21 haven't yet been subject to the same kind of scrutiny
- 22 that Congress and the Federal agencies brought to bear on
- 23 traditional credit scores.
- The use of new sources of information,
- 25 including information that goes beyond traditional credit

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- 1 However, these same products could be used to
- 2 make these consumers more vulnerable to high interest
- 3 payday loans and other products that might lead to
- 4 further economic distress.
- 5 It all depends on how these products are
- 6 actually used. Importantly, our recent data broker
- 7 report did not attempt to analyze the harms that could
- 8 potentially come from the uses of consumer segmentation
- 9 of poor or minority communities.
- Now, one of the reasons I support legislation
- 11 to create greater transparency and accountability for
- 12 data brokers, as well as their sources and customers, is
- 13 so we can all begin to understand how these profiles are
- 14 being used, in fact, and whether and under what
- 15 circumstances they are harming vulnerable populations.
- In the meantime, the data broker industry
- 17 should take stronger pro-active steps right now to
- 18 address the potential impact of their products that
- 19 profile consumers by race, ethnicity, or other sensitive
- 20 characteristics or that are proxies for such sensitive
- 21 classifications.
- 22 Here's what I'd like to see data brokers do.
- 23 They should find out how their clients are using these
- 24 products. They should tell the rest of us what they
- 25 learn about their actual uses. They should take steps to

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- 1 insure any inappropriate uses cease immediately and they
- 2 should develop systems to protect against such
- 3 inappropriate uses in the future.
- 4 Now, the third challenge I want to mention
- 5 relates to companies that use their own data and analyze
- 6 their own data about their customers.
- 7 Companies, understandably, are eager to
- 8 determine what makes their customers happy and how they
- 9 can more efficiently service these customers. As they
- 10 dive into their own treasure trove of customer data in
- 11 order to offer perks or better deals to loyal customers,
- 12 companies may also find that these common practices
- 13 disadvantage certain groups of individuals, thereby, in
- 14 the words of the White House's big data recent report,
- 15 exacerbating existing socio-economic disparities.
- Back in January, the Harvard Business Review
- 17 asked companies to think deeply about where value-added
- 18 personalization and segmentation ends and harmful
- 19 discrimination begins.
- 20 Now, I want to emphasize that all of these
- 21 industry players, traditional credit reporting agencies
- 22 and their newfangled progeny using alternate scoring
- 23 models, data brokers and the companies that use their
- 24 products, and companies engaged in analysis of their own
- 25 customer data, all of these players can take steps right

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- 1 now to address concerns about the potential
- 2 discriminatory impact of their use of algorithms.
- I'm hopeful that the same reservoirs of data
- 4 that create the concerns I outlined will also lead to
- 5 ways to get them under control. I encourage all members
- 6 of industry to look for ways that the data in their hands
- 7 could be used to identify disparate treatment along
- 8 racial, ethnic, gender or other inappropriate lines, and
- 9 to correct such treatment to the extent it exists.
- Thank you very much.
- 11 (Applause.)
- MS. ARMSTRONG: Thank you very much,
- 13 Commissioner Brill.
- 14 Now, the next part of our afternoon agenda,
- 15 before we get to the next panel, is going to be a
- 16 presentation, Digging Into the Data, and I'd like to
- 17 introduce LaTanya Sweeney, who's been the Chief
- 18 Technologist at the FTC, and Jinyan Zang, a research
- 19 fellow in technology and data governance. So, I'll leave
- 20 you with the clicker.
- 21 (Applause.)
- 22 PRESENTATION: DIGGING INTO THE DATA
- 23 MS. SWEENEY: So it's great to be here. My
- 24 name got mentioned a couple of times, so I feel like I
- 25 don't need any other introduction. But I do want to

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- 1 thank Tiffany and Katherine and Katherine and Patrick and
- 2 Maneesha and DPIP for organizing this and for allowing us
- 3 this opportunity to present our work. Assuming I can get
- 4 the clicker to work, because after all I'm the
- 5 technologist, right?
- 6 So one of the things I wanted to also let you
- 7 know is we started a summer research program under the
- 8 guidance and leadership of Chairwoman Ramirez, who
- 9 you met this morning. The idea was to bring in some of
- 10 the best and brightest students and have them do research
- 11 during the summer on areas of interest to the FTC.
- Today we're going to report on one such

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- 1 that are involved in taking the outside data -- is it the
- 2 battery or is just I don't know how to push the button?
- 3 (Laughter.)
- 4 MS. SWEENEY: Data brokers taking outside data,
- 5 bringing it into the online network, figuring out what it
- 6 is to offer or what kind of offer, which ad would be the
- 7 right one to target directly to you, and make that
- 8 connection from end to end through that kind of network.
- 9 And so that's normal and called targeted advertising.
- 10 But we're not going to talk about targeted
- 11 advertising right now. Let's talk about something
- 12 simpler, where it's only one party that's going to go
- 13 from end to end, such as the Google network.
- Google delivers more than 30 billion ads a day.
- 15 And every ad is delivered in the time it takes to load a
- 16 web page. That's -- I'm a computer scientist, that is
- 17 awesome. That's really awesome. How do they do this?
- 18 Well, we're not going to get into the specifics and I'm
- 19 not sure everyone actually knows the specifics outside of
- 20 Google, but we do know that there are billions of ads on
- 21 one side. And what an ad bid is, is basically the copy,
- 22 the ad copy, the key words of the audience that they
- 23 would like to show that ad to, and how much money they'll
- 24 pay either to get that ad put in front of the audience or
- 25 for someone to click on it.

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- 1 colleges. It supports many outstanding black men among
- 2 its members, including Congressman Clyburn, Bill Cosby,
- 3 Shaquille O'Neal.
- 4 And we became interested in what kind of
- 5 advertisements showed up on that site. Well, there are
- 6 lots of ads about graduate degree programs, which, of
- 7 course, seems incredibly appropriate, given that this is
- 8 an undergraduate fraternity -- and a clicker that doesn't
- 9 work. What is it with this?
- 10 (Laughter.)
- 11 MS. SWEENEY: There are also advertisements
- 12 about, you know, luxury vacations and other kinds of
- 13 opportunities like that. And then there are also these
- 14 kinds of advertisements, such as this one, "Click here to
- 15 view your arrest record now."
- Now, there has been much said about Instant
- 17 Checkmate and this is an Instant Checkmate ad. I did
- 18 earlier work about the suggestive nature of arrest record
- 19 ads around Instant Checkmate, but I think it's very clear
- 20 to see that this actual ad is not showing up the way it
- 21 regularly showed up. It actually shows up with flashing
- 22 colors, so it has kind of a neon effect. But flashing
- 23 your arrest record would be a presumption that this
- 24 particular audience would not appreciate.
- 25 It wasn't the only ad, though, that made that

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- 1 kind of presumption. There were also ads for a criminal
- 2 lawyer and there were ads for credit cards.
- Now, it turns out the financial industry is the
- 4 number one marketer online. So they're the number one
- 5 industry that's advertising online. And given what we
- 6 had just seen of Omega Psi Phi, we became very interested
- 7 in what kind of credit card ad is that and what are
- 8 credit card ad experiences. I hope you have better luck
- 9 with the clicker.
- 10 MR. ZANG: All right. So, going more generally
- 11 from the Omega Psi Phi anecdote, we first started looking
- 12 for word lists of quality cards versus ones that are more
- 13 harshly criticized online.
- So, here you can see a list of the top 25 most
- 15 harshly criticized cards or the most highly praised cards
- 16 that we were able to find. And for Omega Psi Phi, they
- 17 actually had two of the ads from the harshly criticized
- 18 list show up on their site, including First Premier Card
- 19 and the Centennial Card. None of the ads from the highly
- 20 praised cards list actually showed up on their site.
- 21 And, in fact, for the highly praised cards list, it's not
- 22 necessarily those cards are all just high credit score,
- 23 really luxury cards. In fact, you had secure cards that
- 24 were highly praised as well, like the Capital One secure
- 25 card.

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- 1 So, but digging back into the comparing of the
- 2 two cards, what we saw was if you looked at the most
- 3 popular ad that ran for a First Premier card, which is
- 4 one of the most often criticized cards, if you go online
- 5 and compare that to the most popular ad that was run by
- 6 American Express for their blue card, the sites that
- 7 appear that those card ads appeared on do look very
- 8 different.
- And one theme that quickly jumps out at you,
- 10 especially for the American Express blue card is, around
- 11 higher education, where you had sites such as
- 12 Harvardmagazine.com or Yalealumnimagazine.com or, like,
- 13 the Heismanwinners.com as sites that American Express is
- 14 advertising on.
- 15 On the other hand, for First Premier's card
- 16 there didn't seem to be as much of a cohesive theme that
- 17 we picked up.
- MS. SWEENEY: So we wanted to dig further.
- 19 Like, what is the nature of these cards, where are they
- 20 appearing generally, and is it somehow related perhaps to
- 21 the popularity of the website.
- 22 So if you think about popularity of websites,
- 23 there are a few websites that are highly popular, almost
- 24 everyone goes to, they're on the top of everyone's top
- 25 ten list. And then the popularity of the website drops

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- 1 as you go further out.
- 2 Alexa is a company that ranks the traffic to
- 3 and from domains and so we used them to rank all of the
- 4 publishers of all of the credit card ads' deliveries that
- 5 were made of the praised cards and the criticized cards.
- 6 And what we learned was that the criticized cards
- 7 appeared completely across the entire spectrum in
- 8 increasing order as the popularity of the domain drops.
- 9 So it's a curve that's going this way. And in every
- 10 segment of the popularity zones, there are, in fact,
- 11 credit card ads for the criticized cards.
- 12 The highest number, though, were in those ads
- 13 whose popularity ranks were above a billion. Now, to be
- 14 above a billion, you probably aren't getting much
- 15 traffic, that would be the issue with respect to their
- 16 popularity. Those ads that are close to the left are

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- 1 the 100,000 to the one billion.
- 2 So these ads are showing up on different
- 3 popularity, on websites and domains with different kinds
- 4 of popularity profiles.
- 5 MR. ZANG: And another perspective that we took
- 6 to look at the type of sites that these card ads were
- 7 running on was from the perspective of understanding that
- 8 different websites do attract different types of
- 9 audiences and that there are websites out there that are
- 10 more exclusive to an audience of one demographic group
- 11 than other demographic groups.
- So we took the approach of analyzing Comscore's
- data on the browsing behavior of 46,000 American
- 14 households in 2013 and looked through the four million
- 15 websites those households go to, to look for sites that
- 16 are more commonly visited by households of certain
- 17 demographic groups.
- And so, for example, if we took a racial lens
- 19 to demographics, you can -- we found that for Latino
- 20 Americans they're more likely to go to sites like
- 21 Univision or Tarango or Musica.com. For African American
- 22 households they went to sites like Worldstarhiphop or
- 23 Footlocker.com.
- Now, in this case, it doesn't necessarily mean
- 25 that only African Americans go to Footlocker.com.

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- 1 Footlocker.com could have lots of other visitors from
- 2 other racial groups as well, but African American
- 3 households are much more likely to go to Footlocker.com.
- 4 And so we looked at exclusivity from the lens
- of race, from age, from income, from the level of
- 6 education in the household and also whether the household
- 7 had children or not. And we are able to find for each of
- 8 those different lenses, sites that were exclusive to each
- 9 of those groups.
- 10 And this raises a question for us of if there
- 11 are sites that are out there that are more exclusive to
- 12 certain groups, what is the advertising experience like
- on those sites. And could there be the potential for
- 14 disparate impact if -- depending on the type of ads that
- 15 are shown or the type of ads that are actually not shown
- 16 on those sites.
- MS. SWEENEY: So, one of the things that we
- 18 learned was that these groups are appearing almost evenly
- 19 across the entire popularity of these domains. That
- 20 means that no matter which ad campaign you ran, whether
- 21 one you were trying to focus on popular domains or less
- 22 popular domains, you could easily encounter one of these
- 23 domains for which there was an exclusive audience,
- 24 because, in fact, they appeared in all the domains.
- 25 So, what we then became interested in was to

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- 1 what extent could we predict whether or not the ad would
- 2 receive or were there sites in the comScore data that
- 3 should have received these credit card ads and were those
- 4 sites part of these exclusive groups.
- 5 And we found that it's true, that around race
- 6 and income and age, there were differences. And, in
- 7 fact, there were praised ads. And these praised ads, for
- 8 example, for Asians, we saw Capital One secure card and
- 9 Capital One and CitiBank and Discover finding domains for
- 10 which Asians -- were more exclusive to Asians. And you
- 11 couldn't tell by the name or the key word of the page,
- 12 the domains are names like Dealstobuy.com or
- 13 Visajourney.com.
- 14 Discover did a very good job using
- 15 Seekingalpha.com to target people who are more -- whose
- 16 income is \$100K or more. That's an exclusive audience at
- 17 Seekingalpha.com and it's a very popular site.
- 18 And then we also found examples in age ranges.
- 19 Discover, with ages 18 to 20 and Capital One secure card
- 20 found some domains that were somewhat exclusive to ages
- 21 25 to 29 or ages 65 plus.
- 22 So, domains with exclusive audiences do exist
- 23 and ads are not exempt from being delivered to those
- 24 sites. So the lack of ads or too much of another ad,
- 25 could lead to a disparate impact. And demographics

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- 1 could, therefore, sort of infer what kind of advertising
- 2 experience might you have.
- We're going to stop here. If you want more
- 4 information about the work, we'll have a blog post later
- 5 with some of the details and a paper to follow right
- 6 after that.
- 7 I did want to leave the panel that's coming up
- 8 next with three questions from this work. One of them is
- 9 that by subscribing to an online ad network a publisher
- 10 may not have an opportunity to review ads anymore and if
- 11 there is a problem, what are the publisher's rights and
- 12 responsibilities?
- 13 Another question that comes from this is when
- 14 we look at Omega Psi Phi. What are the sufficient and
- 15 necessary circumstances for a community to experience
- 16 adverse impact in this setting?
- 17 And the last question is that the kind of
- 18 audience exclusivity measure that we used to find these
- 19 audiences that had that type of exclusive nature to the
- 20 audience is something that could actually be used inside
- 21 of the big data engine in that same fraction of a second,
- 22 to realize that this ad probably shouldn't go to this
- 23 site at this time.
- 24 If that's so, and it's that easy to do, should
- 25 or how might a big data analytic engine be required to

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- 1 use it or an equivalent remedy?
- 2 So to find out more about the work, check out
- 3 our Tech@FTC blog. Thank you.
- 4 (Applause.)
- 5 MS. WORTHMAN: Good afternoon. My name is
- 6 Katie Worthman, I'm an attorney in the Division of
- 7 Financial Practices here at the FTC and I am co-
- 8 moderating the third panel, along with my colleague,
- 9 Patrick Eagan-Van Meter, who is a program specialist,
- 10 also in the Division of Financial Practices.
- 11 Panel 3 is titled Surveying the Legal
- 12 Landscape. And today we are going to look at the various
- 13 anti-discrimination and consumer protection laws that
- 14 impact big data.
- 15 Let me first quickly introduce the panel. To
- 16 my immediate left is Leonard Chanin, who is currently a
- 17 partner in the law firm of Morrison Forester, who in a
- 18 previous life also was head of regulations at the Federal
- 19 Reserve and at the Consumer Financial Protection Bureau.
- Then there is Carol Miaskoff, who is in the
- 21 Office of Legal Counsel at the Equal Employment
- 22 Opportunity Commission.
- 23 Montserrat Miller, who is a partner in the
- 24 Privacy and Consumer Regulatory, Immigration and
- 25 Government Affairs Practice Groups, at Arnall Golden

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- 1 Gregory.
- 2 And Lee Peeler, who is President and CEO of the
- 3 Advertising Self-Regulatory Council and Executive Vice
- 4 President National Advertising Self-Regulation Council of
- 5 Better Business Bureaus.
- 6 And then last, but definitely not least, is
- 7 Peter Swire, who is a Professor of Law and Ethics at the
- 8 Georgia Institute of Technology, as well as Senior Fellow
- 9 at the Future of Privacy Forum and the Center for
- 10 American Progress.
- 11 And with that, I will ask Patrick to open up
- 12 the panel with the first question.
- 13 PANEL 3: SURVEYING THE LEGAL LANDSCAPE
- MR. EAGAN-VAN METER: So, Panel 2 kind of
- 15 teased us a little bit with the laws that might apply to
- 16 the big data space, so I wanted to ask all of you what
- 17 you think the Federal laws that touch on the collection
- 18 and use of big data are.
- 19 MS. WORTHMAN: Leonard?
- 20 MR. CHANIN: So I was asked to give a little
- 21 background on the Equal Credit Opportunity Act and
- 22 Regulation B, just to kind of do some level setting in
- 23 terms of how that law may apply to big data marketing and
- 24 those sort of things. So I'll spend just a couple of
- 25 minutes talking about that.

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1	So the Equal Credit Opportunity Act
2	implemented by Regulation B, the Federal Reserve Board
3	administered that regulation for many years and it was
4	recently, or a couple years ago, transferred to the CFPB.
5	So, interestingly enough, the Equal Credit Opportunity
6	Act doesn't apply to marketing activities, Regulation B
7	does to a limited extent. And the reason is the law says
8	it's illegal to discriminate against an applicant in
9	connection with a credit transaction. An applicant is
10	defined as someone who has applied for credit. So if you
11	have not applied for credit, technically speaking, the
12	law does not apply to you that is, the Equal Credit
13	Opportunity Act does not apply to pre-application
14	activities.
15	The Federal Reserve Board, though, many years
16	ago applied Regulation B to certain activities at the
17	pre-application stage, but it's pretty narrow or focused,
18	if you will. So, first of all, the law says you cannot
19	discourage a person from applying for credit on a
20	prohibited basis. And that means something like you
21	cannot make statements to a person, you can't use
22	advertisements, radio, newspapers, and so forth that
23	would put forth symbols or tags that would discourage a
24	reasonable person from applying for credit.
25	The second way that Regulation B might cover

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- 1 marketing activities is if you're an existing account
- 2 holder. So there you have a credit transaction with the
- 3 lender and the lender cannot make statements that would
- 4 discourage you from using your credit or provide
- 5 different terms to you, since you are, indeed, someone
- 6 part of a credit transaction.
- 7 So, generally speaking, Regulation B applies to
- 8 transactions or applies to marketing in those relatively
- 9 focused ways. But it's not a new issue that we're
- 10 talking about in terms of marketing. In fact, the
- 11 Federal Reserve in 1985 looked at marketing activities,
- 12 decided at that time not to expand the regulation scope
- 13 to cover marketing activities. And again looked in 1998,
- 14 when it was reviewing Regulation B and solicited comments
- on whether pre-screening activities should be covered by
- 16 Regulation B.
- 17 In 1999, the Federal Reserve Board decided that
- 18 it was not appropriate to apply Regulation B in its full
- 19 context to pre-application activities, marketing
- 20 activities, because it did not have evidence that
- 21 suggested that lenders were using, in any significant
- 22 way, prohibited bases for marketing. The Fed also said,
- 23 though, it had anecdotal evidence suggesting that some
- 24 lenders were using age, that some were using geographical
- 25 information in terms of marketing activities, but

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- 1 balanced that anecdotal information against the benefits
- of marketing. That is, that pre-screening, in
- 3 particular, makes credit available to individuals. There
- 4 was evidence that the Fed cited that said that allowing
- 5 lenders to engage in pre-screening without coverage by
- 6 Reg. B could make credit available to more individuals.
- The Federal Reserve also noted that, of course,
- 8 lenders could use information to discourage people from a
- 9 fine, could use information to provide products to some
- 10 areas and not to, if you will, disadvantage products.
- 11 So, in 2003 the Federal Reserve Board actually
- 12 adopted a rule dealing with pre-screening marketing
- 13 activities coming out of a 1999 proposal. That rule is
- 14 still in place today. It basically requires creditors to
- 15 retain information about pre-screening activities, that
- 16 is, activities where creditor use is governed by the Fair
- 17 Credit Reporting Act, uses credit report information, and
- 18 a creditor must retain the information used to market --
- 19 that is, the criteria.
- 20 So, today, and since about 2004, if a creditor
- 21 uses information -- race, ethnicity, age, gender, et
- 22 cetera -- to engage in pre-screening it must, under the
- 23 law, retain that information. The Fed, at the time of
- 24 adopting this rule, said that enforcement agencies could
- 25 use this information to determine whether or not pre-

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1 Right, right. In the context of MS. MIASKOFF: 2 the Civil Rights Act of 1964, as well as the other 3 Federal EEO laws, the Americans With Disabilities Act, the Age Discrimination and Employment Act, and the 4 5 Genetic Information Non-Discrimination Act, not to miss 6 that, we have really very settled law. I mean, it's the 7 50th anniversary of the Civil Rights Act this year, but 8 settled law with some basic principles that, I think, can 9 definitely be translated into the big data space. 10 Now, how do these employment and nondiscrimination laws sort of reach over? How does 11 employment meld with the big data? I think it does in 12 the spaces of recruitment, clearly, for the kind of 13 advertising issues we've been seeing discussed here. 14 in areas of screening people for jobs once they have been 15 recruited and making that ultimate selection decision. 16 17 There's a real potential here, I think, to gather information about successful employees and then turn 18 19 around and use that to screen people for employment. With the screening piece, I think the issue 20 really is about what prejudices are built into the data 21 2.2 and, therefore, would be built into any rules deduced from the data. And, therefore, be used to select people 23 who meet those same rules. So, would it exacerbate, 24

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perpetuate, past discrimination? I think that's the big

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- 1 concern.
- 2 In recruitment it's the same issue around
- 3 advertising that we've seen in the commercial space. And
- 4 I know -- you know, think about LinkedIn and all the jobs
- 5 that may be referred to you there. And, you know, you
- 6 always wonder, you know, who's getting which jobs, are
- 7 they equitably distributed or not, or are they targeted?
- 8 So, I think that's the big picture. In terms
- 9 of the law I just want to make a few quick points.
- 10 It's been interesting to me, because everyone's
- 11 been talking about disparate impact and adverse impact a
- 12 lot. In the employment space, those are very precise
- 13 legal terms. And there is a cause of action for
- 14 disparate impact and I would say that that's the one,
- 15 frankly, that's most suited to big data, because what
- 16 that's about is taking a neutral, i.e., like, race
- 17 neutral, gender neutral, et cetera, term, that
- 18 nonetheless disproportionately excludes members of the
- 19 protected group. And -- and this is the critical piece
- 20 here -- and is not job-related consistent with business
- 21 necessity.
- Now, in terms of big data I think this is the
- 23 rub, this is really what's very fascinating, is that the
- 24 first step is to show, is to look at what is the tool.
- 25 Now, you know, this could apply to recruitment or to

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- 1 selection, perhaps more to selection.
- What is the tool, does it cause a disparate
- 3 impact, and once you get there, is -- you know, just
- 4 because it causes disparate impact, doesn't make it
- 5 illegal discrimination under the employment laws. It's
- 6 only illegal if it does not predict, accurately predict,
- 7 success in the job. Okay?
- 8 So this raises all kinds of fascinating issues
- 9 with big data analytics, because, indeed, if you do
- 10 possibly have prejudices and prejudice is built into the
- 11 data, something might be validated as predicting success
- in the job, but it might just be predicting that, you
- 13 know, white guys who went to Yale do well in this job.
- So, you know, there's going to be a lot of
- 15 interesting, I think, thought that needs to be done and
- 16 technology work, really, around understanding how to
- 17 validate these kind of concerns.
- MS. WORTHMAN: Montserrat, with respect to the
- 19 Fair Credit Reporting Act?
- 20 MS. MILLER: Sure. So, I am going to talk a
- 21 little bit about the Fair Credit Reporting Act and try to
- 22 weave that into big data and how certain reports are used
- 23 in that context.
- 24 So, FCRA, enacted in the early 1970s, a

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- 1 or who it seeks to regulate are consumer reporting
- 2 agencies, so credit bureaus or background screening
- 3 companies. And it's very specific in what it seeks to
- 4 regulate and how it seeks to regulate it. So that
- 5 consumer reporting agencies operate in an environment in
- 6 which they -- with respect to confidentiality, accuracy
- 7 and then also the legitimate use and permissible use of
- 8 data.
- 9 And when you're talking about the FCRA or the
- 10 Fair Credit Reporting Act, we're looking at consumer
- 11 reports, consumer reporting agencies, users of the
- 12 consumer reports and also furnishers of the data for the
- 13 consumer reporting agencies. So it's an ecosystem in
- 14 which these companies operate under the Fair Credit
- 15 Reporting Act.
- With respect to the reports, themselves -- and
- 17 this is where you begin to get into, obviously, the data,
- 18 the reports could include credit, they could include
- 19 criminal history information, obviously, that's something
- 20 that comes up with employment, in both of those they
- 21 could include drug testing information, employment
- 22 education verification, public records information.
- 23 So these are reports that are put together by
- 24 consumer reporting agencies provided to, for instance,
- 25 employers, landlords, and others, all within the confines

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- 1 of the Fair Credit Reporting Act. And the information
- 2 contained within those reports, the data contained within
- 3 those reports, goes to credit-worthiness, standing,
- 4 capacity, and it also goes to character, general
- 5 reputation or mode of living.
- 6 And Commissioner Brill covered some of these
- 7 points already, so I won't belabor them, but as she
- 8 mentioned, they're certainly looking at the use of that
- 9 data for credit or insurance or employment purposes, or
- 10 other purposes. But all purposes which are defined and
- 11 regulated under the Fair Credit Reporting Act are
- 12 permissible purposes.
- So, I would say with respect to the Fair Credit
- 14 Reporting Act, you're looking at, as I said, permissible
- 15 purposes, due diligence of end users, who are going to be
- 16 looking at the data, consumer reporting agencies must
- 17 operate with maximum possible accuracy, and there's
- 18 always, and most important for consumers, whether it's
- 19 for employment or tenancy or credit or insurance, other
- 20 purposes, there's always the right to essentially appeal
- 21 and challenge the accuracy and completeness of any
- 22 consumer report.
- 23 FCRA, over the years, has not operated on its
- 24 own. We've certainly seen the states coming into this
- 25 space and especially, I think, aggressively over the last

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- 1 few years when you talk about the potential
- 2 discriminatory impact of the data that's in those
- 3 reports, and, really, with respect to credit and criminal
- 4 history. So, you have not only the FCRA, which is
- 5 enforced by the FTC and the CFPB, and also there are
- 6 private rights of action, but you have the state analogs,
- 7 which are essentially their own mini FCRAs and you have
- 8 California, Colorado, Maine, Minnesota, New Mexico, New
- 9 York, Oklahoma, Vermont and Washington State.
- 10 So you can see there are a lot of people, a lot
- of different entities, Government entities, enforcers,
- 12 that are operating in the space of using this big data
- 13 with respect to the permissible purposes.
- 14 And then you also have other states, which have
- 15 gone more -- in a more limited, but important, area and
- 16 consider whether the use of credit for, say, employment
- 17 or tenancy might have -- that in certain settings the use
- 18 of credit could have -- be considered an unlawful or
- 19 discriminatory practice. And the same applies with
- 20 criminal history information.
- 21 So, certainly, there are examples of states who
- 22 are very active in this space of data, big data, and how
- 23 it's used in these reports, in seeking to protect the
- 24 communa8tand hIthis ythi31 /tivedividuou ivethe

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- 1 MS. WORTHMAN: Thank you. And, Lee, could you
- 2 speak a little bit about section five?
- 3 MR. PEELER: Sure, I would love to. And,
- 4 although, I do think I was sort of targeted as the legal
- 5 historian on this panel.
- And, you know, I do want to also just commend
- 7 the FTC's leadership on this. You know, data is now the
- 8 economic lubricant of a lot of our economy. And looking
- 9 at this issue is in the finest tradition of the Federal
- 10 Trade Commission -- in fact, if you're looking for
- 11 historical analogies, in the 1960s the FTC launched a
- 12 ground-breaking review of inner city retailers' marketing
- 13 practices and that led, under the Federal Trade
- 14 Commission Act, which I'll talk about in two seconds, to
- 15 a whole wave of initiatives that really changed a lot of
- 16 what we traditionally thought of about credit practices
- 17 and debt collection practices and merchandising.
- 18 So, you know, I think this is really, again, in
- 19 the greatest tradition of the Commission.
- I do want to go back to some remarks that were
- 21 made this morning, though, and say I think you have to --
- 22 you can't just look at the application of the FTC Act
- 23 broadly on big data. I think the remarks that were made
- 24 this morning really say you have to look at how -- at
- 25 where big data is being used and how it's being applied.

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- 1 an audience, you're responsible for the reasonable
- 2 interpretation that audience would have. So if you're,
- 3 you know, targeting your ads to cancer patients in a
- 4 well-known FTC case, you are liable for what the
- 5 interpretation of that ad would be and what information
- 6 that consumer would need, if you're narrowly targeting.
- 7 The other example that I think will be
- 8 important as the FTC goes down the road is, you know,
- 9 data brokers are responsible for the accuracy of what
- 10 they tell consumers and tell marketers they're providing
- 11 them, so they're responsible for the accuracy of the
- 12 representations they make about their database.
- The second core aspect of FTC jurisdiction is
- 14 unfairness. There is a long history of unfairness that
- 15 led to its codification in 1994, but it's a -- you know,
- 16 it's a provision that's been in the Federal Trade
- 17 Commission Act since consumer protection authority was
- 18 created in 1934.
- 19 The elements of an unfair practice under the
- 20 1994 codification are that the practice is likely to
- 21 cause substantial consumer injury. And that that injury
- 22 is not reasonably avoidable by consumers and on that
- 23 particular part of the analysis you would need to look at
- 24 whether the ad is targeted to a specific group, but also
- 25 what's the consumer group's access to alternative

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- 1 products, how easily can the group go on and find
- 2 alternative products at better prices or at better terms?
- 3 Even if you met that analysis for advertising,
- 4 your next -- the next challenge is to show that that
- 5 harm, that net harm, is not outweighed by benefits to
- 6 consumers or competition.
- 7 And again, you know, a flat ban on use of, for
- 8 example, gender in advertising would probably fail under
- 9 that approach because, you know, take, for example, an
- 10 entrepreneur wants to open a women's shoe store. They
- 11 will be targeting their ads based on sex and gender.
- 12 Probably -- and then the big issue for legal
- 13 analysis under section five is what extent has well
- 14 established public policy had. And we have a very well
- 15 established public policy in the United States of not
- 16 treating people differently. The statute that created
- 17 the codification is quite clear, that you can use public
- 18 policy in weighing the costs and benefits, but it cannot
- 19 be the primary basis for the conclusion that the practice
- 20 causes net consumer injury.
- 21 And then a last -- two last pieces of the FTC's
- 22 authority that I think are really important for the
- 23 discussion today, is what you're doing right now, which
- is the ability to use your 6(b) authority to collect
- 25 information, issue reports and inform the public about

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- 1 what's really going on in the marketplace is invaluable.
- 2 And the last is not a specific provision of the
- 3 Federal Trade Commission Act, but the FTC's programs of
- 4 educating consumers. And as Commissioner Brill said
- 5 earlier today, really encouraging industry to step
- 6 forward and educate consumers themselves.
- 7 And then the very last point I want to make is
- 8 I thought Commissioner Brill and Montserrat did a great
- 9 job summarizing the Fair Credit Reporting Act. But
- 10 because I'm an industry self-regulator I -- when I first
- 11 got to the FTC I took the Fair Credit Reporting Act as it
- 12 existed then and you could almost -- it was almost
- 13 verbatim from a pretty well established set of industry
- 14 self-regulatory principles that had pre-existed the Act
- 15 by several years.
- 16 And the only lesson I -- the important lesson,
- 17 I think, to learn from that is that by looking at what
- 18 the industry is doing on a self-regulatory basis, you can
- 19 come up with workable -- you're more likely to come up
- 20 with workable solutions to issues, than if you just try
- 21 to create it yourself.
- 22 So that's my summary.
- 23 MS. WORTHMAN: I'd like to turn a little bit,
- 24 Peter, to an example that was used this morning on Panel
- 25 1. And it was the Maserati example, where apparently

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- 1 Maserati, the sports car, the example that was used by
- 2 Mallory Duncan was that the dealership has information
- 3 that the Maserati is most likely to be sold to this list
- 4 of people. There's a 30 percent chance that people who
- 5 get any type of offer will come in and purchase the
- 6 Maserati. And the list happens to be 95 percent male.
- 7 So, the question is, does that -- if you send a
- 8 flyer advertising a free test drive to this list that's

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- 1 that there's business necessity and then there'd be a
- 2 question of is there less restrictive alternatives.
- 3 So that's the way I think it's been done in the
- 4 fair lending context. I would like to, just from the
- 5 paper, make a couple of points because I think we've
- 6 heard some reasons for caution in thinking that there's
- 7 claims here from the plaintiff's side. And there's also
- 8 some reasons to think existing law has some teeth that
- 9 haven't been brought out.
- 10 And so the first one, I think, is -- and in
- 11 interviewing people who do fair lending compliance, there
- 12 are huge fair lending compliance programs. The level of
- 13 effort in the major financial institutions in this area
- 14 is very large. And at least part of the reason is
- 15 related to a CFPB case in June this year, where GE
- 16 Capital was ordered to provide, or did a consent decree
- 17 to provide, \$169 million in remedies for fair lending
- 18 violations in advertising. And that's just a big n umber
- 19 compared to what we're used to in consent decrees and
- 20 such.
- 21 And the facts were about advertising to
- 22 existing customers. As Leonard pointed out, it's
- 23 especially clear the law applies to existing customers,
- 24 but according to the facts in the complaint, GE Capital
- 25 had offered a nice credit deal, you can reduce your back

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- 1 is worth noticing. It doesn't have to be somebody
- 2 engaged in commerce and so there are some important FTC
- 3 powers here that are not familiar from other statutes.
- 4 The next one is -- as we wrote this paper and
- 5 tried to think about fair lending and its history, which

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- 1 the strictness, but it's the same structures.
- 2 And so I think the last 20 or 40 years of
- 3 discrimination law, including fair lending, provides a
- 4 lot of useful insights about advertising and other
- 5 practices related to big data. And instead of these
- 6 issues being brand new -- and this is something that
- 7 Leonard said -- they've been going back to the '80s and
- 8 '90s, we have decades of work that's been done here. And
- 9 I think along with figuring out what we think we ought to
- 10 do, there's a legal research task about what the law has
- 11 done. And talking among others, fair lending and
- 12 employment and fair housing experts to see what's really
- done there is something that I think really would inform
- our debate a lot about what the legal rules are.
- 15 MS. WORTHMAN: Now, going just a little bit
- 16 into the -- not to beat the Maserati example, but let's
- 17 say that the list is based on aggregate data that has
- 18 been prepared by the credit bureaus, on a
- 19 household level, not on an individual level. What are
- 20 the implications in the FCRA context for a marketing list
- 21 that has been prepared using previous purchasing history
- 22 by consumers just by households? Does the FCRA apply in
- 23 that context?
- 24 MS. MILLER: Well, I will -- I think I'll punt
- 25 on this one, because I think marketing is not necessarily

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- 1 my expertise. It's more FCRA and consumer reporting with
- 2 respect to other permissible purposes.
- 3 MS. WORTHMAN: Anyone else would like to take
- 4 it?
- 5 MR. PEELER: So just as a general principle --
- 6 and I actually had the opportunity to work on
- 7 implementation of the Fair Credit Reporting Act and to
- 8 work on Reg B when it was issued. And I think just
- 9 looking back at the structure that's there, if you were
- 10 using information collected from a third party to make
- 11 decisions about whether an individual can purchase or
- 12 obtain particular good or services, I think you do need
- 13 some structure to provide FCRA type noticing correction,
- 14 as opposed to if the issue is are you sending an ad out.
- 15 And I think, you know, one of the things I think is true,
- 16 Leonard, still is that pre-screening, where you have
- 17 exercised jurisdiction, still involves making a firm
- 18 offer of credit, right?
- 19 MR. CHANIN: That's correct.
- 20 MR. PEELER: So, again, just looking at the
- 21 model that's been used for years and years in that
- 22 industry, if you're making a decision about, you know,
- what's going to exclude somebody based on third-party
- 24 information, there ought to be some way to make sure that
- 25 information is right.

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- 1 If what you're doing is just trying to make
- 2 information available to consumers, I think that the cost
- 3 of doing a fair lending type analysis for, you know, a
- 4 wide variety of products gets to be, you know, very high
- 5 and very unworkable. And the exception to that, I think,
- 6 are two of the areas that are represented up here,
- 7 housing -- you know, that's a limited commodity. If you
- 8 miss the opportunity to apply for housing, you know,
- 9 you're not going to get the housing. Jobs is a limited
- 10 commodity, if you miss the opportunity to get your
- 11 application in for that job, you're out of luck, you
- 12 can't come back and get, you know, the extra one of
- 13 those.
- 14 MR. EAGAN-VAN METER: So based on the research
- 15 that LaTanya presented today, would marketing high
- 16 interest rate/low credit limit credit products on certain
- 17 websites, based on the consumers who frequent those
- 18 sites, implicate any of the statutes we discussed today
- 19 or any others?
- 20 MR. CHANIN: So I'll take a first jab at that.
- 21 If you're not talking about housing, but you're talking
- 22 about other credit, then I think generally speaking the
- 23 answer is no. First of all, at least my assumption is
- 24 that someone, anyone, n32.05 -1.345 CHANIS

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- 1 way to get credit, because that would raise other issues
- 2 fundamentally, whether you're discriminating if someone
- 3 can't call you, go on your website, however you can
- 4 apply.
- 5 But assuming that you market and people can
- 6 contact you independently of that marketing activity,
- 7 then I don't think that marketing and target marketing
- 8 would be -- would raise fair lending issues, at least
- 9 under the Equal Credit Opportunity Act.
- 10 I think -- you know, as was alluded to by Lee
- 11 and others, you know, this is not a new issue. That is,
- 12 people for years have been targeting marketing in radio,
- 13 television, newspaper subscriptions and so forth, in
- 14 order to get people who might be interested in their
- 15 products, whether credit products or other products to
- 16 respond to those. What we've got now is obviously far
- 17 more data that people are able to use and manipulate it
- 18 in order to better target, if you will, to audiences that
- 19 they think may be interested in their products.
- The other thing I'll mention is that, you know,
- 21 it's been -- I wasn't able to attend this morning, but
- 22 there's a lot of discussion about disparate impact. If
- 23 you decide to apply the Equal Credit Opportunity Act to
- 24 credit, you need to talk about disparate treatment. What
- 25 the law would prohibit is if I have, for example, as was

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- 1 mentioned earlier, a retail shoe store predominantly or
- 2 exclusively for women, in terms of women's shoes, and I
- 3 offer a credit product, it would be illegal for me to
- 4 target -- that is, to send solicitations to advertise
- 5 solely to women, regardless of disparate impact. That
- 6 is, de facto discrimination against men would be illegal
- 7 if you apply the Equal Credit Opportunity Act to
- 8 marketing, unless you have some kind of carve-outs or
- 9 something.
- 10 MR. PEELER: And the two quick clarifications
- 11 on that is if a man comes in and applies for that credit
- 12 card, he's got to be evaluated on the same criteria as
- 13 everybody else does.
- 14 And your credit portfolio in the credit card
- 15 area is going to be evaluated against whether there's
- 16 disparate impact. So the end results are important and,
- 17 you know, if you're a creditor I'm assuming that you're
- 18 making sure that your marketing is going to get you to
- 19 the place where you can survive an examination by
- 20 Leonard.
- MR. CHANIN: Not anymore.
- 22 MR. SWIRE: So, Leonard has lived these issues
- 23 at the CFPB in recent years and I'm in the midst of
- 24 getting up to speed again on some of this, so I -- but I
- 25 would like to point out two things about marketing in the

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1 So there's at least language that's sort of 2 more -- if you want to call it plaintiff friendly or 3 enforcement friendly, than some sort of categorical idea that this is exempt from the ECOA. And it may be the 4 5 CFPB is pushing past some of the previous ways that people thought about it at the Fed in earlier years. 6 7 there's language that's more pro plaintiff than some of 8 the categorical exclusions would suggest. 9 MR. EAGAN-VAN METER: So to push that a little 10 bit further, if you had a high end credit card and a more 11 sub-prime card, and the sub-prime card was only marketed on sites frequented by minority groups, and the prime 12 card was on, you know, sites that were frequented by high 13 14 income or, you know, other nonprotected classes, does 15 that count as steering in that way? If you're not, you know, kind of turning someone off, but you're giving them 16 17 a different offer that might not be as appealing? 18 MR. SWIRE: Is that --19 MR. CHANIN: You raised the steering issue. 20 MR. SWIRE: I did. And in the pre-call with Leonard, I said, Leonard, even at the CFPB when is it 21 2.2 good to do a targeted marketing to make up for past problems and when is it bad to steer and can you point me 23 to the authoritative source on that? And we weren't able 24

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to identify an authoritative source.

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- So I think this is a real puzzle. And my paper
- 2 suggests it needs a lot more discussion than we've had
- 3 today. But maybe, Leonard, you have more?
- 4 MR. CHANIN: Yeah. I quess what I would say is
- 5 the fact of marketing those products to different either
- 6 audiences or different websites, in my view, does not
- 7 violate the Equal Credit Opportunity Act.
- 8 However, as I think Lee alluded to earlier, if
- 9 your portfolio -- if you have data and, you know,
- 10 sometimes lenders do not have this data, but if you have
- 11 data that shows ethnicity or gender or age, and so forth,
- 12 in those portfolios then certainly there are going to be
- 13 questions about why do you have such a skew in terms of
- 14 who has these credit products. Do you make them
- 15 available to everyone? If someone calls up, goes on your
- 16 website and applies, do you steer them? That's going to
- 17 raise very different issues.
- But the fact that people respond to certain ads
- 19 and other people respond to different ads, I don't think
- 20 raises that type of issue. It's simply, what does the
- 21 portfolio look like at the end of the day and how will
- 22 you explain those, if there are dramatic differences.
- 23 MR. SWIRE: Can I follow-up just on -- so, it
- 24 was interesting what Leonard said, if you have the data
- 25 in your portfolio that indicates a skew, that's

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- 1 reminiscent of having HMDA data, Home Mortgage Disclosure
- 2 Act data, that shows a potential skew and then regulators
- 3 historically have looked more carefully at it.
- 4 The paper I wrote suggests that that data about
- 5 likely demographics may well be available in online
- 6 marketing in a lot of ways it wasn't historically for
- 7 lending. So a lot of online marketers are pretty sure
- 8 they have a pretty good fix on their market and so there
- 9 may be data inside their big data sets that say with some
- 10 level of confidence what are the demographic, you know,
- 11 characteristics.
- 12 And if you have that and you have a disparate
- 13 impact in the data in your database, the history under
- 14 fair lending has been that you might come under scrutiny,
- 15 at least for the regulated industries, I think.
- MR. PEELER: Well, and I think one other risk
- 17 would be -- if in the hypothetical you raised, if somehow
- 18 when -- if the consumer goes back to that creditor, not
- 19 in response to the ad, but goes back to the creditor site
- 20 and somehow the products that that consumer is able to
- 21 access on the website is limited to products that fit a
- 22 particular profile, then I think you probably do start to
- 23 engage -- have some serious issues.
- 24 MR. SWIRE: Let's call those landing pages that
- 25 might be different for customers of different sorts.

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- 1 MS. WORTHMAN: Going to -- actually, following 2 up a little bit on some of the panel discussions from 1 and 2, they discussed aggregate credit scores. 3 the industry applying the FCRA analysis to these scores? 4 5 MS. MILLER: So I'll say -- I'll start that 6 With respect to employment and the FCRA and the use 7 of that data for employment screening purposes, there is 8 a common misperception that these credit scores are used 9 for screening purposes and they're not. 10 And so, therefore, if you were to request a 11 report on an individual and you're a consumer reporting agency and you're providing that to an employer, it's not 12 going to include a credit score. It may include credit 13 information, but it's not going to include a score. 14 So, taking that off the table, although I know 15 that there's a lot of -- the media certainly reports at 16 17 times that scores are used for employment screening purposes, in fact, they're not used for that purpose. 18 19 Now, I think that if you have just the general 20 aggregate scoring and you're looking at certain
- discussion about the discriminatory impact of the use of that type of data. 23

communities, I think then it would turn more to a

- 24 MS. WORTHMAN: So how is that implicated,
- 25 Carol, with the fact that when somebody applies for a job

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- 1 they can definitely give their consent to have the
- 2 employer look at their credit history. But even if
- 3 they're following the FCRA, how does it impact with Title
- 4 VTT?
- 5 MS. MIASKOFF: Right. Well, even if someone
- 6 gives their consent to doing, you know, getting the
- 7 credit background, if the employer uses it as a reason
- 8 for excluding someone from employment and if using that
- 9 has a disparate impact, and is not -- and the key is, is
- 10 not job-related and consistent with business necessity or
- 11 even if it is, there could be a less discriminatory
- 12 alternative. In that case, it's going to be
- 13 discriminatory, regardless of the consent. So that's the
- 14 bottom line there.
- 15 MS. MILLER: And I just wanted to piggyback off
- 16 of that. I mean, certainly, consent is the first step in
- 17 terms of pulling such a report for employment screening
- 18 purposes. I will say also that credit is not as
- 19 frequently used as one would believe that it is. There
- 20 are other -- there's other data in the reports that is
- 21 more frequently used. And credit tends to be very
- 22 specific to a position, which would blend nicely with
- 23 Title VII and what Carol was talking about.
- 24 But that's the baseline, is you have to have
- 25 the individual's consent.

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- 1 MS. MIASKOFF: I would just add that as a very
- 2 practical matter there are probably not many employers
- 3 out there, looking at the whole landscape, who understand
- 4 how to read the kind of information they get when they
- 5 get one of these financial reports about someone.
- 6 And I think probably that's why everyone talks
- 7 about credit scores, because that's something that a lot
- 8 of us can understand. But when they get a lot of other
- 9 information it's often hard for them to put it in context
- 10 and, you know, therefore, an employer might just say, oh,
- 11 we got a hit, you know, we have something. And then
- 12 potentially exclude someone.
- MS. MILLER: Which I would say is why credit,
- 14 with respect to employment screening, is used sparingly
- 15 and scores are not used. In fact, there are contractual
- 16 restrictions to the use of scores if your permissible
- 17 purpose is for employment screening when working with one
- 18 of the bureaus. And certainly with the reports
- 19 themselves, it is important to understand what they say.
- 20 And there are also, even at the state level, quite a few
- 21 restrictions on the use of credit if it is, in fact, for
- 22 employment screening purposes.
- 23 So I think credit is an area that is highly
- 24 regulated, whether it's FCRA or state statutes.
- 25 MS. WORTHMAN: And then taking a question from

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- 1 the audience, Carol, you said earlier that big data, if
- 2 it has a disparate impact but it's predictive of job-
- 3 related outcomes, that it's not illegal. Does that mean
- 4 that the better the data set the more likely it is to
- 5 comply with the law?
- 6 MS. MIASKOFF: I guess the more likely, yes.
- 7 But whether or not it, in fact, complies is the actual
- 8 question. And the issue is going to be, just to sort of
- 9 clarify, really whether or not the criteria used to
- 10 screen someone out for a particular job, you know, is
- 11 relevant for performing that particular job.
- 12 And I guess I didn't mentioned before, but one
- 13 of the ways in which you could say the EEO laws
- 14 anticipated big data, is that we have at this point,
- 15 quite -- from 1978 some quidelines in place about
- 16 validating selection tools for employment. And they were
- 17 written initially about tests. And the question was if a
- 18 test had a disparate impact, how do you know if it's job-
- 19 related for the position in question and the tasks in
- 20 question.
- 21 And it has three ways of validating. And I
- 22 think it's really going to be interesting to see how
- 23 those principles can be applied in the big data context.
- 24 But it is for the job in question.
- 25 MR. SWIRE: Can I follow-up on that?

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- 1 MS. WORTHMAN: Yes.
- 2 MR. SWIRE: So there's a Sears case with
- 3 employment about -- it turned out men were more likely to
- 4 do certain high commission sales and women were more
- 5 likely to be near the front of the store selling smaller
- 6 items.
- 7 And Sears was able to come up with a
- 8 statistical study in the case that showed a business
- 9 necessity that it was actually based on the choices of
- 10 the individuals who had picked these different jobs. In
- 11 that case Sears won, the defendant won, but it won after
- 12 having a pretty substantial burden of proof to show the
- 13 validation on the statistics.
- MS. MIASKOFF: Yeah, it's not easy.
- 15 MR. SWIRE: And so I think in the marketing
- 16 area, the fair marketing or whatever we call it, one of
- 17 the changes, if this law turns out to apply in these
- 18 sectors, may be that the practices meet business
- 19 necessity, but there would be a compliance effort by the
- 20 companies to show the validation. And I think up until
- 21 now that effort to do that validation has not been the
- 22 industry standard in a lot of places. And to meet the
- 23 laws, it might become or have to become the industry
- 24 standard.
- 25 I'm curious from the employment side, does that

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- 1 match your understanding of the law, at least in the
- 2 employment side?
- 3 MS. MIASKOFF: Well, as a -- I wouldn't say
- 4 it's more whether it matches my understanding of the way
- 5 businesses are complying with the law or not.
- 6 MR. SWIRE: Right.
- 7 MS. MIASKOFF: The reality out there is I think
- 8 Federal contractors, because of all of the requirements
- 9 that come with a Federal contract, do a lot more
- 10 validation now than companies that are not contractors.
- I know from EEOC's perspective, we regulate all
- 12 private sector employers with 15 or more employees and
- one thing we really are pushing now is the kind of
- 14 record-keeping that can facilitate validation.
- 15 MR. SWIRE: But there may be a due diligence
- 16 effort here expected from the companies that has not
- 17 maybe been built in, up until now.
- MS. MIASKOFF: And I think that could be a very
- 19 positive thing, actually.
- 20 MS. WORTHMAN: Now, going to another example of
- 21 the use of, or the potential use of, big data. So, in
- 22 2008 the FTC brought9ollcae oagains9ollcredi canr
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- 1 something that -- you can't have a disclaimer, I would
- 2 argue, and expect that the FTC wouldn't look at it very
- 3 carefully. And especially if your disclaimer happens to
- 4 be -- even though we have -- and I'll just use big data,
- 5 because that's what we were talking about -- even though
- 6 we happen to have big data and even though we happen to
- 7 be selling it to you and even though you happen to be
- 8 looking at it, and maybe, perhaps, kind of/sort of you're
- 9 looking at it for employment purposes or housing, we're
- 10 not a consumer reporting agency, this is not an FCRA
- 11 product.
- 12 The FCRA, I think, can be -- in fact, is very
- 13 effective. And I think FTC is very effective at
- 14 enforcing the FCRA. So, disclaimers are certainly
- 15 something that don't bode well for the company who --
- 16 especially if you're trying to say that you're not an
- 17 FCRA product when, in fact, you meet all the elements of
- 18 it, whether it's employment or tenant screening or if
- 19 you're using, as I said, the data and you fall under the
- 20 elements of what is a consumer reporting agency.
- 21 But on the other hand, you know, that is one
- that some would argue that the FCRA covers consumer
- 23 reporting agencies, but it leaves a bit of a hole when it
- 24 comes to employers who may be using that information
- 25 themselves and not operating or using the services of a

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- 1 consumer reporting agency. So, in that situation we'd
- 2 have a different analysis.
- I wowed everybody into silence.
- 4 (Laughter.)
- MS. WORTHMAN: What about the use, though,
- 6 again going back to some of the more sort of aggregate
- 7 data, nontraditional credit information, that's being
- 8 used, whether it's Government records, social media,
- 9 shopping habits, web tracking, location data?
- 10 If that is being used in the marketing context,
- 11 both in the credit and non-credit space, is that
- 12 something that is -- is there a gap there with the
- 13 statues and the regulations?
- 14 MR. CHANIN: I'll take a try at it. I quess
- 15 the question is -- where do I start with it. So if you
- 16 think about amending the various laws, the question to me
- 17 first would be is there injury, is there harm to
- 18 consumers? Because you need to balance that against
- 19 counter-veiling benefits.
- 20 You know, if someone is sending marketing
- 21 materials based on whatever information, targeting to
- 22 individuals, presumably there is some benefit to those
- 23 individuals who receive it. Requiring that information
- 24 to be sent to every individual, many of whom have no
- 25 interest in it, is probably not going to be very

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- 1 beneficial, it also is going to increase ultimately
- 2 the price of the product, lead to other techniques
- 3 to market and so forth.
- So, to me, the question is, is there injury.
- 5 It seems to me there would be injury if, for example, I
- 6 market through one channel or multiple channels. If the
- 7 terms, as Lee, I think, alluded to -- if the terms of
- 8 that credit are only available through that channel and
- 9 someone contacting me through a website, through a
- 10 telephone, in-person mail, cannot get those terms, they
- 111 or multj31 8h870h.

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- 1 between the FCRA and consumer reporting agencies who
- 2 are providing social media information for, say,
- 3 employment purposes and then just EEO laws. Because
- 4 certainly under -- employers are using social media,
- 5 whether it's private employers, whether it's Government,
- 6 social media is used.
- 7 And so there's sort of this split between well,
- 8 what happens when an employer looks at it and Googles a
- 9 candidate and then what happens when a consumer reporting
- 10 agency prepares a report that includes social media
- 11 information. And if it's a consumer reporting agency,
- 12 it's going to be very restricted, if you will, and very
- 13 calculated and carefully synchronized with what the Fair
- 14 Credit Reporting Act would say with respect to reporting
- 15 that information. But they're only going to be looking
- 16 at certain things, it's a much smaller universe, whether
- 17 its illegal activity or racist comments or explicit
- 18 photos.
- I mean, that's what a consumer reporting agency
- 20 that would look at and provide a report that includes
- 21 social media would look at, because what they want to
- 22 factor out for their sake and for employers' sake are the
- 23 discriminatory elements that one could see if, for
- 24 instance whether it's religion or maybe -- certainly
- 25 gender, that you would see if you were just an employer

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- 1 who is Googling it.
- 2 So, certainly, I think that's an area where
- 3 FCRA provides a lot of protections for consumers, if an
- 4 employer is, in fact, going to request a report that
- 5 includes social media.
- 6 MR. SWIRE: Here's one distinction that hasn't
- 7 been brought up in the panel. Under ECOA, you don't
- 8 usually think of there being different loans to women or
- 9 men. And, in fact, one big reason why the Equal Credit
- 10 Opportunity Act exists was to correct for a history where
- 11 married women didn't get their own credit history, it was
- 12 just the husband's credit history. And divorced women
- 13 turned out not to have a credit history and couldn't get
- 14 a loan, once they were divorced.
- So, in the credit area we don't expect there to
- 16 be men's loans and women's loans, or black loans and
- 17 white loans. That would be very -- we'd be extremely
- 18 skeptical of that in a credit relationship. The shavers
- 19 and cosmetics categories, although shavers, I believe,
- 20 are used by both sexes, but --
- MR. PEELER: Not the same ones.
- MR. SWIRE: Well, I don't know the facts on
- 23 that.
- 24 (Laughter.)
- 25 MR. SWIRE: Anyway, in cosmetics you can get

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- 1 into your own discussion. But I think for some universe
- 2 where there does seem credit related and we have some --
- 3 there's some uncertainty about what sort of things are
- 4 going to be credit related, it might turn out there's
- 5 advertising that's directed more towards one sex or
- 6 another, one national origin group or whatever.
- 7 And where one of these statutes applies, it
- 8 doesn't mean that you can't, under the law, turn out to
- 9 have a women-targeted ad or a men-targeted ad. If one
- 10 of the discrimination statutes applies -- lending,
- 11 housing, employment -- my understanding is then it's a
- 12 business necessity defense. You get to do it because
- 13 we have to do that in order to sell the cosmetics or
- 14 whatever it is.
- But there's a prior question of when are these
- 16 statutes going to apply and once they do, you can have a
- 17 defense of necessity, but then the company has to come
- 18 forward and show the facts supporting that.
- 19 MS. WORTHMAN: Building a little bit more on
- 20 the social media comment, what about employers who look
- 21 at social media to determine hiring eligibilities? Or
- 22 also in some lending context where people look at how
- 23 many friends you have or who your friends are in
- 24 determining whether or not you're eligible for credit.
- 25 MS. MIASKOFF: Right. Well, in just looking at

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- 1 employment, employers who look at social media as part of
- 2 the screening of applicants, you know, frankly, it puts
- 3 them, I would think, in a vulnerable position, vis-a-vis
- 4 the EEO laws. Because, obviously, with many social media
- 5 you take one glance at it and you learn, you know, a
- 6 plethora of information about various protected statuses
- 7 the person may have.
- 8 And once the employer has that information, if
- 9 they deny the job to the individual or they deny the
- 10 promotion or the training, and the person is trying to
- 11 think, gee, why didn't I get this? And they happen to
- 12 find out, perhaps, that social media was looked at. You
- 13 know, it's -- they may well bring a charge to challenge
- 14 it.
- 15 And so from an employer's perspective you
- 16 really have to step back and think am I going to get
- 17 something that's really, you know, related to job
- 18 performance and worth my while here for taking that risk.
- 19 MS. MILLER: And I would also say with
- 20 employment, in bringing it back to the FCRA, the biggest
- 21 challenge with social media is just accuracy.
- MS. MIASKOFF: Yes.
- 23 MS. MILLER: And -- so which is why consumer
- 24 reporting agencies would just look at user generated
- 25 content, as opposed to any content that's out there. And

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- 1 then the other question, of course, which is not so much
- 2 FCRA, just as its terms of service or their privacy
- 3 policy, is depending on how you capture that social
- 4 media. A consumer reporting agency would need to look at
- 5 just what's publicly available. You have to be careful
- 6 not to go beyond the bounds of a company like a Google or
- 7 a LinkedIn or Instagram's either privacy policy or terms
- 8 of service and capture information that is in violation
- 9 of either of those.
- 10 MR. SWIRE: A question on whether there could be
- 11 another concern about social media being used in
- 12 recruitment, for instance for employment, it may well be
- 13 that people have a lot of friends who come from the same
- 14 ethnic, racial, whatever background as themselves --
- MS. MIASKOFF: Right, right.
- 16 MR. SWIRE: -- and so if you're trying to have
- 17 diverse recruitment and it turns out you're sort of going
- down a path that's very dependent on one group, that
- 19 could raise the EEO question as well.
- 20 MS. MIASKOFF: It does raise EEO questions.
- 21 And the answer to it is that you have to recruit through
- 22 many different sources and avenues and tools to sort of
- 23 counter-balance that. I mean, there's also just an issue
- 24 in terms of, you know, computer access, period. Smart
- 25 phone access, which many more people have now, but still

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- 1 there are people who don't have it. And you certainly
- 2 can't access as well some things on a smart phone as on a
- 3 computer.
- 4 I'd also add with the social media, as you may
- 5 be aware, there are many states now that have laws that
- 6 prohibit employers from requiring people to give them
- 7 their social media passwords to check it out. There was
- 8 pending Federal legislation, but that has not gone
- 9 anywhere. Though I've certainly heard stories that
- 10 despite that legislation you have employers saying, now
- 11 I'm going to turn my back so I don't get the password,
- 12 but log in now and I want to see it.
- 13 MS. WORTHMAN: And in the credit context,
- 14 Leonard, with the social media?
- 15 MR. CHANIN: So, I think you've got to divide
- 16 between the marketing, based on that information, versus
- 17 a customer. So there is nothing in Regulation B that
- 18 prohibits use of the information, but I would be very
- 19 careful because as was suggested before what's on that
- 20 website, if you have gender, racial information,
- 21 ethnicity, age and so forth. If you look at that and
- then there's going to be certainly an allegation or
- 23 potential allegation that you've considered it, either --
- 24 certainly if you have an existing customer, in terms of
- 25 that customer relationship, potentially with marketing if

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- 1 you have that, certainly there will be questions to
- 2 follow.
- 3 So I'd be very careful about using it. Even
- 4 though there's nothing that directly prohibits use of
- 5 social media, at least in the context of credit
- 6 transactions.
- 7 MS. MIASKOFF: And I would just add, with
- 8 social media and employment -- although I think probably
- 9 the rule, rather than the exception, is people tend to
- 10 have as their friends, they have people from similar
- 11 backgrounds as themselves. I know, you know, sometimes I
- 12 have a variety -- I'm just using myself as an example --
- 13 a variety of friends and as a result of that I get some
- 14 very interesting suggestions from Facebook as to, you
- 15 know, what group I might want to join or whatever, what
- 16 publication I might want to follow. And were an employer
- 17 to look at that, they could, you know, then draw
- 18 conclusions about me.
- 19 So there's really a lot of vulnerability for
- 20 employers.
- 21 MR. EAGAN-VAN METER: Are current categories or
- 22 protected groups under anti-discrimination and consumer
- 23 protection laws sufficient? Panels 1 and 2 discussed
- 24 victims of crime or domestic violence, as well as people
- 25 with particular health statuses.

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- 1 MS. MIASKOFF: I would jump in. I mean, I
- 2 think basically, yes. In terms of health status, with
- 3 the expanded definition of disability that came into
- 4 effect in 2009, there are a lot of health statuses that

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- 1 report, including maybe if it's credit information, is
- 2 used in whole or in part to make an adverse decision.
- 3 And then take it one step further, you have
- 4 employment and there is an additional pre-adverse action
- 5 step that needs to be followed. If information in a
- 6 report is going to be used adversely against an
- 7 individual, they must be provided notice of that and a
- 8 copy of the report and a summary of their rights. So
- 9 certainly adverse action is built into FCRA.
- 10 MR. SWIRE: One other thing about adverse
- 11 action notices is it's not just whether that individual
- 12 cures their problem. Another role of them is an
- 13 enforcement regime overall, so if there's an adverse
- 14 action notice that might end up with an advocacy group or
- 15 a plaintiff's lawyer realizing there's some practice that
- 16 should be challenged and maybe a complaint to a
- 17 regulator.
- And if they're not being issued the adverse
- 19 action notices, that can get detected with the company
- 20 and lead to enforcement.
- 21 So it's part of an overall structure to detect
- 22 things that might turn out to be troublesome and it's not
- 23 just the individual fixing their own credit.
- 24 MR. PEELER: And so, as historian of the panel,
- 25 to put a little context on that discussion. You know,

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- I know there's no coffee allowed in here, which
- 2 I think is sort of a disaster for the last panel of the
- 3 day. So, we screwed everything up, didn't we? We have
- 4 screwed everything up, and we haven't even started.
- 5 MR. CALABRESE: I blame the FTC.
- 6 MR. OLSEN: All right, this panel is on paths
- 7 forward. I have a very distinguished group of panelists
- 8 here with me. It's going to be a challenge for all of us
- 9 because a number of panelists earlier in the day
- 10 discussed steps forward. So, this panel is challenged to
- 11 come up with something new and different for the last
- 12 panel, but I'm sure they're up to the task.
- Just quick introductions. I should have
- 14 borrowed the reading glasses that I just had. To my left
- 15 is Chris Calabrese who is the legislative counsel for
- 16 privacy related issues in the ACLU's Washington office,
- 17 where his portfolio includes internet privacy and new
- 18 surveillance technologies.
- 19 Next to him is Dan Castro, a senior analyst at
- 20 the Information Technology and Innovation Foundation and
- 21 the director of the Center for Data Innovation.
- 22 Jeanette Fitzgerald, next to Dan, is general
- 23 counsel and chief privacy officer for Epsilon, where she
- 24 leads the government affairs legislative and regulatory
- 25 initiatives related to data protection and privacy.

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- Jeremy Gillula, did I pronounce that right?
- 2 MR. GILLULA: Yes, you got it.
- 3 MR. OLSEN: All right. He's a staff
- 4 technologist at EFF, the Electronic Frontier Foundation,
- 5 where he focuses on privacy and civil liberties issues
- 6 arising from new technology.
- 7 Next to Jeremy is Michael Spadea, a director at
- 8 Promontory Financial Group, where he advises clients on a
- 9 wide range of regulatory and compliance issues related to
- 10 privacy and information governance.
- 11 And, last, but not least, Chris Wolf is a senior
- 12 partner at Hogan Lovells, where he leads the firm's
- 13 global privacy and information management practice. Also
- 14 the founder and chair of the Future of Privacy Forum and
- 15 chair of the Anti-Defamation League, National Civil
- 16 Rights Committee.
- So, to kick us off, I want to do something a
- 18 little bit different, and I didn't warn the panelists
- 19 about this in advance. So, this is a classic moderator
- 20 foul, but I'm going to proceed anyway.
- 21 MR. GILLULA: We were told there would be no
- 22 quizzes.
- 23 MR. OLSEN: So, I'm going to start with sort of
- 24 a McLaughlin Group style question. There's been a lot of
- 25 discussion today about practices that are occurring and

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- 1 could occur. And there's been discussion about the legal
- 2 landscape and the regulatory landscape.
- 3 I'd like to ask each panelist for a yes or no
- 4 answer to the following question. You can say it
- 5 depends, but that's really cheating. So, I wouldn't go
- 6 with that. Do you agree that there are currently uses of
- 7 data, or potential uses, that are harmful that are not
- 8 addressed by the current legal or regulatory landscape?
- 9 Chris?
- MR. CALABRESE: Yes.
- 11 MR. OLSEN: Dan?
- 12 MR. CASTRO: I don't think we've heard any
- 13 today.
- MS. FITZGERALD: No.
- MR. GILLULA: Definitely.
- MR. SPADEA: Gun to my head, no.
- MR. WOLF: So, I'm a former litigator, and I
- 18 would never let a witness answer a yes or no question
- 19 that needs explanation, so we'll be discussing this.
- 20 MR. OLSEN: Okay, it sounds like we've got a mix
- 21 on the panel. I think before we get too much into
- 22 specifics about how we might move forward, it might
- 23 behoove us to flesh out a little bit of the answers that
- 24 have been given to the simple question there.
- 25 I would ask each panelist to talk about whether

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- 1 there are legal gaps or market failures that are not
- 2 being addressed in the first instance. I'll just start
- 3 with Chris.
- 4 MR. CALABRESE: Sure. So, just to give a frame
- 5 for this, data is not bad. It's not good either. It
- 6 just is. It's a fact of the environment, so it reflects
- 7 existing disparities in our society. You know, we see a
- 8 lot of money in this country that is distributed along
- 9 racial lines. So, we are going to see those
- 10 distinctions.
- I believe the wealth gap in this country --
- 12 white households now have approximately 20 times the
- 13 average household wealth of black households. So, the
- 14 data is going to reflect that. So, our job here is to
- 15 make sure that big data does not exacerbate it and then,
- 16 ideally, hopefully down the road, can help to close it.
- 17 But let's start by not exacerbating it.
- So, potential regulatory gaps, I am very
- 19 comfortable saying that there are regulatory gaps, and
- 20 I'll give you a couple. One of the major ways that big
- 21 data and data is combined today is in background checks.
- 22 So, if you want to see whether somebody's got a criminal
- 23 background or not, and I know it's covered, is you do
- 24 this background check. Lots of public data sources are
- 25 checked.

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- 1 We see Chris Calabrese's criminal record in
- 2 Texas. That is not true, by the way. So, Chris
- 3 Calabrese probably doesn't get a job. Well, we've seen
- 4 lots and lots of examples where there are multiple Chris
- 5 Calabreses, and there are, and those are mixed up.
- 6 Well, I see a great and classic example for a
- 7 market failure here because the customer is not Chris
- 8 Calabrese. The customer is the company, and he or she, it
- 9 may be willing to deal with a certain level of error if
- 10 it improves their bottom line which is not to hire
- 11 somebody with a criminal record. They may be willing to
- 12 accept a certain amount of data problem in order to deal
- 13 with that larger problem.
- 14 Similarly, I have a product that detects fraud,
- 15 right. If I'm a big bank, I'm really excited if I cut my
- 16 fraud down by 40 percent. If I have two or three percent
- of people who aren't able to get a product or have to
- 18 jump through more hoops to get a product, that's fine,
- 19 because that's not really what I'm worried about, right.
- 20 My desire is to reduce fraud. I'm willing to accept a
- 21 certain amount of error to do that. If some people don't
- 22 get products, you know, that's too bad, but again, the
- 23 market isn't going to fix that.
- So, I'll just leave it at those two.
- MR. OLSEN: How about you, Dan?

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- of what he was going to say, too. I wish he had kept
- 2 going.
- 3 So, I said no because I think there's a lot of
- 4 self-regulation that I think already exists. The DMAs
- 5 out there, the IAB, and there are several other of those
- 6 As and Bs and all those other groups that have all self-
- 7 regulatory guidelines.
- 8 I know for the DMA they will enforce those
- 9 guidelines among their members. If they hear about
- 10 somebody who is not a member, they will go talk to them
- 11 and try and get them to act in what is considered an
- 12 ethical manner among that group. If they then still find
- that there's a problem, they've been known to turn those
- 14 companies over to the FTC so they can look at them
- 15 further.
- So, if there's a problem that somebody thinks
- is in a gap, then maybe we can address it that way
- 18 without having to come up with another law that will only
- 19 deal with a certain or a broad-ranging area. But it
- 20 won't get to what the real problem is, because, as you
- 21 said, all I've heard in all those reports that came out,
- 22 they said it's possible there could be a harm. It's
- 23 possible, but I couldn't find one either.
- MR. CALABRESE: I have more.
- MS. FITZGERALD: Okay, good.

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- 1 MR. OLSEN: How about you, Jeremy.
- 2 MR. GILLULA: So, approaching this from sort of
- 3 a technologist perspective, I mean, I said yes, because
- 4 just thinking about it from a statistical perspective.
- 5 If you're trying to classify something and you get, you
- 6 know, a 97 percent success rate, that's amazing. That's
- 7 what people get tenure for if you can pull that off.
- 8 That means you've still got three percent that are wrong.
- 9 If you're talking about classifying every person
- in this country, that means you're wrong six million
- 11 times, you know, or more, if you've got a two or three
- 12 percent error rate. That's a lot of people that your
- 13 automated decision making based on big data could be
- 14 harming.
- 15 I think it's a different thing when you're doing
- 16 a scientific study using big data. You're looking at a
- 17 lot of data about health and trying to make a
- 18 determination about, you know, what causes this disease.
- 19 It's a different thing when you're testing it on people.
- 20 It's tough to tell when you actually have a false
- 21 positive or a false negative.
- So, I think from a technology perspective, we

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1 Michael.

- 2 MR. SPADEA: I think it's really too early to
- 3 tell whether or not there's a gap in the regulatory
- 4 regime. Even if there is one, we then have to -- I
- 5 really think you have to go back to the harm discussion
- 6 and define that. We really haven't agreed on what harm
- 7 is. How can you have a discussion to determine whether
- 8 or not there's a gap or, you know, what the remedy is if
- 9 you don't know what the harm is that you're trying to
- 10 protect. So, I think that's one of the key places where
- 11 the conversation needs to start.
- We heard a lot about risks today. I think you
- 13 could always prove a point with some anecdotal stories.
- 14 The goal is not to develop a perfect regulatory regime.
- 15 If you went out and tried to do all the thinking to put
- 16 in place a regulation that would prevent every single
- 17 type of harm, that would pretty much just kill the
- 18 economy. That's not the goal.
- 19 How do we allow big data and emerging
- 20 technologies to deliver the greatest amount of benefit
- 21 with the least harm to consumers? Obviously, there
- 22 ought to be a threshold of harm, but there's a lot of
- 23 benefit. But a lot of harm, that's probably not a very
- 24 good idea.
- 25 But even where we think that there needs to be

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- 1 some regulation or some remedy, just as Jeanette pointed
- 2 out, we should be looking first to what is the least
- 3 amount of interventions into the economy that is
- 4 necessary and then sort of gradually increase the level
- 5 of intervention as necessary. I think we have a little
- 6 ways to go before we have evidence that there's a
- 7 regulatory gap.
- 8 MR. WOLF: So, I think the other Chris really
- 9 hit it on the head when he says that data is neither, per
- 10 se, good nor bad. I think that really ought to be the
- 11 guiding light here, because we have seen that there's
- 12 enormous potential for good with the use of big data.
- I think we're going to get into this a little
- 14 bit later, but thanks to Mark MacCarthy for previewing
- 15 the study that the Anti-Defamation League and the Future
- 16 Privacy Forum did on the beneficial uses of big data to
- 17 identify discrimination and therefore to come up with
- 18 remedies for it and also big data as a tool to fight
- 19 discrimination.
- 20 So, this is the baby and the bath water theory of
- 21 regulation that I typically espouse. We need to be
- 22 careful when we're identifying potential problems or even
- 23 real problems in regulating in a way that throws the baby
- 24 out with the bath water, and that might have the
- 25 unintended adverse consequence of inhibiting the positive

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- 1 uses of big data. I know the FTC has that in mind.
- 2 It's been, I think, a balanced day, and I'm
- 3 hoping this panel will continue to be a balanced
- 4 discussion of that issue.
- 5 MR. OLSEN: Thanks, Chris. I wanted to follow
- 6 up on two different comments, one that Jeanette made
- 7 about self reg. I just wanted to pose a question
- 8 following on Latanya's presentation and ask about the
- 9 Omega Psi Phi example, the ads being shown related to
- 10 getting your arrest record, hiring a criminal lawyer,
- 11 perhaps getting less advantageous credit card offers.
- 12 Where does the self-reg fit in that scheme?
- 13 What are you -- given your position in the industry --
- 14 what's your explanation for that particular scenario,
- 15 understanding you don't have any of the facts other than
- 16 what was observed?
- MS. FITZGERALD: Exactly. I have no facts, but
- 18 I --
- 19 MR. OLSEN: But I think you can see the web site
- 20 has a particular demographic, and there are particular
- 21 ads being delivered.
- MS. FITZGERALD: Sure.
- 23 MR. OLSEN: Something is going on in the machine
- 24 somewhere. Where does the self reg kick in there? Is
- 25 that anecdote potentially harmful, troubling, concerning

## BigDta A tobbenElso

- 1 to you? Is there a role for self reg there that would
- 2 address that scenario?
- 3 MS. FITZGERALD: So, as you clearly stated, I
- 4 don't have all the facts, and there's a lot more
- 5 questions that I had just listening to the bits that they
- 6 had that could, in my mind, explain some of the
- 7 variations, things like how much does the actual ad space
- 8 cost? Are the publishers charging different amounts for
- 9 different ads? And some of those advertisers may not
- 10 want to pay that different charge. Maybe they have
- 11 different volumes, whatever.
- There are many, many, as far as I'm concerned,
- 13 factors that could be involved there. If there was an

FBB

# BigDa A bolledElso

- 1 purposes, because in the end, it's an advertisement.
- 2 It's the same thing you get on TV. It's an
- 3 advertisement. You can either take it or leave it. If

## BigDa A biblionElso

## 9/15/2014

- 1 credit reports in 5 to 10 households in a specific
- 2 geographic area. I presume that you are using those for
- 3 things like marketing and determining what kind of ads
- 4 you are going to share with people.
- 5 To my mind, if, given the segmented and
- 6 personalized nature of today's internet, if we are
- 7 replicating the geographic segregation in our society and
- 8 people are seeing, based on what neighborhoods they are
- 9 in, different types of ads and offers, that is
- 10 problematic, full stop.
- Even if they can go to another bank, if all they
- 12 are seeing are the crappy credit card offers again and
- 13 again -- and maybe because they, you know, are the kind
- 14 of people who go and get the only advertisement they see,
- 15 they don't know to go to another bank. They think that's
- 16 the bank, those are the offers they get.
- So, to my mind, that kind of stuff is where a
- 18 market failure exists, where the CFPB should push harder
- 19 to see if those offers are actually dissuading people
- 20 from getting credit or if they are ending up with worse
- 21 credit offers because of them. So, that's, I think, an
- 22 area to push.
- 23 I just don't think the industry self-regulatory
- 24 model can fix that. Now, aggressive regulation may be
- 25 able to, but I just don't think that saying it's just

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# BigDat A bollenEks

## 9/15/2014

- 1 marketing is sort of enough to answer those kinds of
- 2 criticisms.
- 3 MR. OLSEN: Jeanette, did you want to respond to
- 4 that? You don't have to.
- 5 MS. FITZGERALD: Am I allowed to?
- 6 MR. OLSEN: It's totally up to you. Yes, I
- 7 invite you to.
- 8 MS. FITZGERALD: Well, my comment to that would
- 9 be, number one, not all advertising is about credit
- 10 cards, okay.
- MR. CALABRESE: True.
- 12 MS. FITZGERALD: And not all advertising is
- determined based on aggregated credit score, which I'm
- 14 not really sure I could tell you that either. I've
- 15 learned about zip plus four, but I haven't learned about
- 16 aggregated credit scores. We try to stay out of the
- 17 credit because we don't want to do any of that, even with
- 18 the banking clients that we have. We're just marketing.
- 19 But it's the same theory that if I live in an
- 20 apartment, somebody who is advertising lawn mowers
- 21 doesn't want to waste their money and their time sending
- 22 information about lawn mowers to me because I live in an
- 23 apartment. It's the same sort of activity that's going
- on, at least from our standpoint.

Fabor

# BigDa A bollenEls

- 1 you were looking at the credit scores of different people
- 2 in the apartment and aggregating them, which means if Dan
- 3 has got much better credit, and Chris has got much better
- 4 credit, and I've got worse credit, and I am bringing them
- 5 down, and they are getting worse offers, that is not the
- 6 same thing. Itot much 10bbtd they are getting wtomd-b uot no.9944949dit

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BigDat A toolsoEks	9/15/2014			
1	MR. CASTRO: I was thinking three bedrooms.			
2	MR. CALABRESE: Right.			

## BigDa A biblionElso

## 9/15/2014

- 1 institutions are stepping back a little bit from low-
- 2 income areas with their providing financial services.
- 3 But at the same time -- well, it's not enough yet, in my
- 4 opinion -- you see community banks stepping in and
- 5 helping trying to serve those where the large banks are
- 6 pulling back.
- 7 Also, you see again, when I think back to
- 8 Chris's point, where you can see big data being part of
- 9 the answer. You see start-ups coming up with and looking
- 10 at alternative data points to better determine who is a
- 11 good credit risk. So, big data is also part of the
- 12 solution, I think, to the potential problem that you're
- 13 outlining. Again, I think you do see the market
- 14 responding to the problem that you pointed out.
- 15 MR. OLSEN: Michael, let me ask you a question
- 16 about something you said earlier on in your first answer.
- 17 I think you had mentioned that it's premature to
- 18 determine whether market failures exist, where there are
- 19 regulatory gaps. I think you said, and obviously you'll
- 20 correct me if I'm wrong, that more work needs to be done
- 21 to define harms, to figure out what is harmful, which is
- 22 a theme I think we've heard several times today.
- 23 So, I would just posit this question to you. If
- 24 more work needs to be done to figure out what is harmful
- 25 or, to put it another way, what is inappropriate, what is

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# BigDa A tobbooEks

- 1 unethical, if more work needs to be done there, what are
- 2 companies doing today in this state of uncertainty? Are
- 3 they being cautious? Where are their guidelines for how

## BigDa A biblionElso

## 9/15/2014

- 1 there some good practice there that can be pulled in?
- 2 How do we look at harm in those situations? More from
- 3 ethicists in general to help us figure out, you know,
- 4 what's right and wrong. Should there be -- harm include
- 5 things other than just economic harm as well?
- 6 I'm not necessarily advocating or arguing
- 7 against any of these, but it feels to me that harm is
- 8 really critical because companies need clarity on what
- 9 are the risks that they should be acting to mitigate.
- 10 Without that clarity, it really just -- you know, it's
- 11 hard to coalesce around a series of best practices.
- MR. OLSEN: I think you teed up Chris's --
- MR. WOLF: Well, actually, before I get to the
- 14 FPF ADL report --
- MR. SPADEA: I did that on purpose.
- MR. WOLF: -- I just wanted to add to what
- 17 Michael said, because recently the Berkeley Information
- 18 School folks asked 40 thought leaders what big data was,
- 19 and there was 40 different answers. I think the one
- 20 slightly negative comment I will make about some of the
- 21 discussion today is we're painting with an awfully broad
- 22 brush in talking about big data and talking about harm as
- 23 the same thing in all contexts.
- This really builds on what Michael said. I
- 25 think we have to look at it on a case-specific basis. If

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# BigDat A bollenEks

## 9/15/2014

- 1 there's predatory lending, predatory financial practices,
- 2 that's one area to look at. If there's use of big data
- 3 inappropriately to categorize people because of their
- 4 medical conditions, that's another area. If it's for
- 5 advertising versus actual financial offerings or credit
- 6 scores, those are all different things. I think we have
- 7 to consider these issues separately.
- 8 So, to help do that, the Future of Privacy Forum
- 9 just published something called Benefit Risk Analysis for
- 10 Big Data Projects, which tries to provide a framework
- 11 that can be used across the 40 or more instances of big
- 12 data and the many potential uses and harms and really
- 13 moves privacy impact assessments forward to talk about
- 14 data benefit analysis.
- So, I commend folks here and those watching to
- 16 take a look at some of the work that my colleagues, Jules
- 17 Polonetsky, Omer Tene, and Joe Jerome have done.
- 18 MR. CALABRESE: Can I offer a countervailing
- 19 report? I've read Chris's report. I think it's very
- 20 good. Everyone should also then read David Robinson's
- 21 report, which I think also tackles very specific and
- 22 concrete examples and I believe takes a little bit of a
- 23 more critical view of some of the areas.
- 24 Everybody in the civil rights community agrees
- 25 that data is a good thing and can help things. But David

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## 9/15/2014

- 1 talks a little bit about some of the complexity of
- 2 algorithms. So, it's David Robinson's report. Sorry, I
- 3 just thought I'd balance it.
- 4 MR. OLSEN: That's fine.
- 5 MR. CALABRESE: They're available as a box set.
- 6 MR. OLSEN: Chris Wolf, one follow-up question
- 7 on your big data risk benefit analysis. Are companies
- 8 engaged in these sort of activities today, do you know?
- 9 Are they undertaking a sort of risk benefit analysis
- 10 today? If not, why not? If we think it's a good idea
- 11 for them to do that, how do we go about --
- 12 MR. WOLF: Obviously, I can't speak for all
- 13 companies. I can tell you from a very unscientific
- 14 sample of the clients that I advise that they are,
- 15 because either based on my advice or because they came to
- 16 the realization on their own. They understand that they
- 17 are under the spotlight with respect to the use of data
- 18 by advocates, by regulators, by the media, and, of
- 19 course, by consumers.
- 20 So, there is a new era of transparency that I
- 21 think we can all applaud and embrace, the fact that we're
- 22 here and we're talking about these things, and the fact
- 23 that it is in kind of the public policy consciousness. It
- 24 means the companies understand they have to do it
- 25 correctly. This isn't the wild, wild west, and they have

Fabor

# BigDa A tobbotes

- 1 to behave responsibly and do the kinds of use analyses
- 2 that reflect an ethical, moral, as well as, of course, a
- 3 legal judgment.
- 4 MR. OLSEN: Okay. How public are those
- 5 analyses?
- 6 MR. WOLF: Well, often they're not because often
- 7 they reflect business strategies and trade secrets and

FBB

# BigDta A tollstates 9/15/2014

- 1 MS. FITZGERALD: Absolutely.
- 2 MR. OLSEN: And just to key off my earlier
- 3 question, I think there was discussion at one of the
- 4 earlier panels, I can't remember which one, but I think
- 5 it was danah boyd who said, you know, there's a lot of

Fate

# BigDa A tobbotes

- So, it's evolving now. As Chris Wolf said, the
- 2 IAPP, it sells out all the time. There's always people
- 3 that are -- I see the same group all the time, but we're
- 4 all talking about new issues as it evolves. If we, as a
- 5 company, my company, for example, Epsilon, decided to
- 6 tell everybody exactly how we did a risk benefit
- 7 analysis, that would be giving up trade secrets. We're
- 8 not going to do that. Other companies are going to feel 9799774ithateel

# BigDat A bollenEks

## 9/15/2014

- 1 work. Not going to do it because we can't explain it
- 2 later and do it with a straight face.
- 3 MR. OLSEN: Okay.
- 4 MS. FITZGERALD: I mean, the fact that there's
- 5 hearings, the fact that there's a huge group of people in
- 6 the public, and a lot of them are sitting around here,
- 7 who will come and look and tell you you're doing
- 8 something wrong, is pretty good at, you know, making sure
- 9 that you do the right thing.
- 10 MR. OLSEN: Does anyone else want to offer
- 11 anything on the transparency concept? How do we improve
- 12 the state of transparency of data use or analytical tools
- 13 or algorithms today?
- 14 MR. CALABRESE: I would like to. I think we're
- 15 sort of woefully inadequate when it comes to transparency
- 16 right now, so I'll pick on the data brokers just because
- 17 there was a recent report. There's a fair amount we know
- 18 about exactly what their practices are.
- 19 In the recent FTC report, I believe it was
- 20 Acxiom, they said Acxiom had something like 1,500 or more
- 21 than that data points on every consumer. I went and
- 22 looked at my Acxiom profile. There's nowhere near 1,500
- 23 data points about me, nor, and I think more importantly,
- 24 is there anything about how they're being used, like sort
- 25 of what score or assessment am I being offered.

Fate

# BigDa A tobboEks

- 1 Am I being grouped as an urban scrambler? Am I,
- 2 like, a vulnerable consumer? In my personal life, I'm
- 3 very vulnerable. But until I know those assessments, and
- 4 I get that it's special sauce, but the individual
- 5 consumer should be able to know if they're being targeted
- 6 or there's an assumption being made about their health,
- 7 their finances. So, that's the kind of transparency I'd
- 8 like to see more of.

## BigDa A biblionElso

## 9/15/2014

- 1 we put you in, you have to send us something because at
- 2 this moment we haven't figured out the right way to do it
- 3 online. I've got a couple ideas, but I don't like what
- 4 I've seen so far, because we don't have credit cards, we
- 5 don't have driver's licenses, we don't have social
- 6 security, and I'm not going to ask for those to then give
- 7 you a report. That seems like counterproductive.
- 8 But we can give you a report, and I should have
- 9 brought it. I'm sorry I didn't. But basically, it says
- 10 your name, your address, whether you have kids in your
- 11 house, whether you own your home, and then some of your
- 12 interests. So, we like to be outdoors. Yes, we do hunt
- 13 because we're in Texas. Fish.
- And then, it says at the bottom you're in this
- 15 group, and it says these are the basic characteristics of
- 16 this group. The salary is about this, you buy books and
- 17 magazines, you shop online. I can't remember what the
- 18 other ones are. But, I mean, that's available. You can
- 19 go get that and we'll show you. Frankly, after you read
- 20 that, if you're really still worried, we'll opt you out.
- 21 MR. CALABRESE: I appreciate it. I've seen some
- 22 of it. I don't lusine.tt biy0biy0nd Ie it. I' p I sglso
- 23 don't see the samesglignment when I read about what

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## BigDa A biblionElso

## 9/15/2014

- 1 classic. We've got good actors and bad actors. Somebody
- 2 brought that up, too, which, of course, is the classic
- 3 argument for regulation. The good actors are already
- 4 behaving properly, and the bad actors aren't going to do
- 5 anything unless you regulate them. But I do see a
- 6 disconnect in the transparency.
- 7 MR. SPADEA: If I could, just briefly, I don't
- 8 know if the answer is more transparency but perhaps
- 9 better transparency. We've all heard about the studies
- 10 where, you know, it will take you 29 years or something
- 11 to read all the privacy policies. It's not because
- 12 consumers can't do it if they want to; it's just, who has
- 13 the time to do that.
- 14 If we inundate consumers with descriptions of
- 15 the technologies and the business processes and all the
- 16 data flows, they're not going to read past the second
- 17 privacy policy. Think about when you buy a new computer
- 18 and reinstall your software and reupdate the stuff from
- 19 the cloud. You're not reading all that. I don't read
- 20 all that.
- 21 More transparency is just going to dull the
- 22 senses, which I think is what you're seeing a little bit
- 23 with the breach and notification piece. If you think
- 24 about the airline industry, you don't go on to the
- 25 website and it doesn't show you how many hours the pilot

## BigDa A biblionElso

## 9/15/2014

- 1 slept, where the maintenance records are for the
- 2 airplane, no. Those are not the factors that you're
- 3 looking at when you make the purchase.
- 4 You want to deliver the critical information at
- 5 the moment in time and that's that. Perhaps a better
- 6 approach may be, which we all do in some ways, you know,
- 7 risk rate the data for that data that's most sensitive,
- 8 that might have the most potential impact. There's a
- 9 higher, you know, notice requirement there. But just a
- 10 blanket across the board, dump tons of more information
- on consumers, I can't see that as protecting consumers.
- 12 In fact, it may put them at more risk.
- MR. OLSEN: Michael, I don't disagree with that.
- 14 I think in terms of transparency, there are a variety of
- 15 ways to deliver that. I think what I was contemplating
- 16 is some mechanism for companies -- I think Peter Swire
- 17 alluded to this in the last panel -- if there is an
- 18 unfair practice, if there's unfair marketing going on,
- 19 you could foresee a scenario where the business has a
- 20 justification for why it engaged in the particular
- 21 marketing campaign.
- 22 It's not necessarily a justification for
- 23 consumers; it could be a justification for a self
- 24 regulatory governing body like DMA. It could be a
- 25 justification for regulators. It's not necessarily

## BigDa A biblionElso

#### 9/15/2014

- 1 giving a notice to consumers every time they receive an
- 2 ad that says this ad was delivered based on the following
- 3 15,000 analytical data points. I don't see that as being
- 4 particularly helpful.
- 5 But I think if there is a concern about how data
- 6 is being sliced and diced and crunched and whether there
- 7 is something going into the analysis that is of concern
- 8 or something coming out at the end, that raises questions
- 9 about the transparency of the analysis itself.
- 10 So, Jeremy, and Dan too, but Jeremy, I'd like to
- 11 ask, is there a role for technology, for example, in
- 12 helping address some of the transparency issues or some
- of the concerns about whether there's something of
- 14 concern happening behind the curtain?
- 15 MR. GILLULA: I mean, I certainly think so. I
- 16 think the technology can help a lot. I mean, going to
- 17 what you said about, you know, you don't necessarily need
- 18 to show every consumer, you know, exactly how they got
- 19 this ad, unless maybe one or two consumers or, you know,
- 20 some consumers who are concerned are interested. Then,
- 21 you know, if there were a way for them to click on a
- 22 little part of the ad that said, hey, yes, this is why we
- 23 served it to you.
- 24 So, it's not that, you know, everyone always
- 25 gets it all the time, but so that people who are

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## 9/15/2014

- 1 concerned can try and understand. So, someone like Dr.
- 2 Sweeney, when she's doing her investigations, not just
- 3 say okay, this is what we saw, but hey, and this is why
- 4 the ad companies say they gave it to us. I think, you
- 5 know, through a little bit of disclosure through the --
- 6 it's not a technologically infeasible thing to try and
- 7 do.
- 8 In terms of also just using technology to
- 9 determine when discriminatory things are happening, it
- 10 also occurs to me that, you know, in some way, and I
- 11 don't know if this is the sort of thing that EFF would
- 12 take on, but, you know, people could turn big data back
- on the data brokers. You could think of a browser plug-
- 14 in that collects the ads that you're seeing. Then, if a
- 15 lot of people install that, then you can start comparing
- 16 what ads different people are seeing.
- So, in some way you could sort of essentially
- 18 collect big data on big data and then try and do some
- 19 open source analysis perhaps. I think the reason that
- 20 something like that might be valuable is because a lot of
- 21 times these sort of effects aren't necessarily obvious,
- 22 because most of the time I don't know what ads Michael is
- 23 seeing. I don't know what ads Jeanette is seeing. I
- 24 just know what I see, and I just assume it's normal. I
- 25 assume there's nothing, you know, discriminatory going on

## BigDa A biblionElso

#### 9/15/2014

- 1 with it. Until people can start to compare these things,
- 2 I think a lot of this will sort of be shadowy and not
- 3 very transparent.
- 4 MR. OLSEN: So, I want to come back to the
- 5 technology in a second, but I want to let Dan jump in
- 6 here.
- 7 MR. CASTRO: Yeah, actually, going off of what
- 8 Jeremy said, I do think big data is a solution here to
- 9 many of these types of transparency things. In fact,
- 10 what you're describing, for example, is the True Car
- 11 model, right, where it's a company that collects all the
- 12 data from car dealerships about what prices people pay.
- 13 If you want to use them, then you get to find out what
- 14 other people have paid. You share your data and that's
- 15 maybe a less discriminatory way of buying a car. You
- 16 know you're not getting sold based on, you know, the type
- of shoes you're wearing when you go to the dealer. So
- 18 there are lots of ways that you can use this.
- 19 This gets to a really important point about
- 20 whether, you know, the discrimination or harm that you're
- 21 positing here is something that's intentional or
- 22 unintentional, which is something that the first panel
- 23 talked a lot about. How you address those might be
- 24 different, so you need to think about which type of
- 25 problem you're trying to address.

## BigDa A biblionElso

## 9/15/2014

- 2 really do have to address a lot of that through data
- 3 analysis. Nobody is intending to do it, so you have to
- 4 make sure you have smart data scientists doing things
- 5 consciously, but also that you're able to evaluate
- 6 outcomes. If it's intentional, then you have a human
- 7 problem, and maybe you address that differently.
- The second point here is really about, you know,
- 9 whether or not you want to open up these algorithms,
- 10 because I think that's really important when you start
- 11 thinking about the trajectory of how innovation will
- 12 occur in this space. Ultimately, I think the goal is to be
- 13 that you're innovating around accurate data so that the
- 14 innovation is really in the algorithms.
- If you look at the open data movement, that's
- 16 what this is all about, right. It's not about who has
- 17 the data, which is the kind of world we live in right
- 18 now. That's why we have data brokers, because you can
- 19 buy data. It's really valuable maybe what data you pay
- 20 for.
- 21 What you really want to get to, I think, is
- 22 where getting access to the data is really easy and it's
- 23 all the intelligence and innovation that you build on top
- 24 of that that's hard. So, you want to promote that. So,
- 25 I think part of that is by allowing trade secrets to

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# BigDa A tobbotes

- 1 exist, is by allowing, you know, intellectual property to
- 2 be protected here.
- 3 So, as we think about regulation to address this
- 4 issue, I think we have to consider what this data science
- 5 space will look like in the future. Part of that will be
- 6 accurate data, so the question then will be, you know, do
- 7 you want innovation in algorithms or not.

## BigDa A biblionEls

## 9/15/2014

- 1 to acknowledge maybe that some of our uses, especially if
- 2 they're going to result in things like people not getting
- 3 jobs, like, until we have a high degree of confidence
- 4 that we're actually doing this right, maybe we shouldn't
- 5 be allowed to do it. I know that's a little bit anathema
- 6 but --
- 7 MR. WOLF: I think that's the throwing the baby
- 8 out with the bath water problem that I was talking about,
- 9 because the point of the FPF ADL report -- and for those
- 10 who don't know, the Anti-Defamation League was founded
- 11 100 years ago to combat antisemitism and promote justice
- 12 and fair treatment for all. The Future of Privacy Forum is
- 13 a privacy think tank. We came together like Reese's
- 14 Peanut Butter cups to put something really good together
- 15 by combining both our missions.
- So, we looked at things, for example, like the
- 17 Urban Institute, which recently combined public school
- 18 data with demographic information to show segregation in
- 19 public schools, use of big data to identify a problem
- 20 with discrimination. In another example, the National
- 21 School Board Association supplemented the Department of
- 22 Education research with raw census data to also show
- 23 disparities and the fact of school disciplinary practices
- 24 on the graduation rates of various minorities.
- 25 We've seen big data used to fight discrimination

Fate

## BigDta A tool book to

- 1 in the workplace. Somebody mentioned earlier this
- 2 company Entelo, which produces a digital recruiting tool
- 3 for those companies who want to have a more diverse
- 4 workplace. It helps them use big data to identify
- 5 prospects.
- In another example, Google has used big data to
- 7 identify problems in its own hiring process. It's a real
- 8 credit to the company because it admitted that its own
- 9 brain teaser interviews apparently unfairly favored
- 10 males. So, it's now reformed its hiring practice after

FHA

## BigDa A biblionElso

## 9/15/2014

- 1 Should we recommend legislation? Should congress pass
- 2 legislation? That's an option.
- We all know how challenging it is for something
- 4 to come out of congress. So, let's talk about best
- 5 practices. Are there practices that companies can engage
- 6 in that would measure, or cabin, or restrict, or evaluate
- 7 potentially harmfully uses that they're not going to
- 8 impact potentially beneficial big data uses?
- 9 I mean, if you have a data ethicist or a chief
- 10 fairness officer, you know, that person and the
- 11 evaluation that that person undertakes before a new
- 12 program is rolled out, it's not going to curtail the
- 13 benefits of big data.
- 14 MR. WOLF: No question about it. I love this
- 15 quote from a report that KPMG recently did. They said
- 16 "organizations that attempt to implement big data
- 17 initiatives without a strong governance regime in place
- 18 risk placing themselves in ethical dilemmas without set
- 19 processes or guidelines to follow. Therefore, a strong
- 20 ethical code along with process, training people, and
- 21 metrics is imperative to govern what organizations can do
- 22 within a big data program."
- 23 MR. OLSEN: Okay. How do we come up with a
- 24 strong ethical code?
- 25 MR. WOLF: So, I have lots of booklets to waive

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#### 9/15/2014

- 1 collect more data, we can find more things. But what
- 2 we're talking about, a lot of the harms, are harms where
- 3 data about a person is then used to make a decision about
- 4 that person, not we found some trend and then we adjusted
- 5 our methods.
- 6 We found some trend and then Google decided, you
- 7 know, yes, we need to change our hiring practices.
- 8 Google looked at your data when, you know, they were
- 9 deciding whether or not to bring you into an interview
- 10 and based on the data decided not to bring you in.
- 11 MR. SPADEA: I disagree with that
- 12 characterization. He gave examples where people benefit
- in the end. Your examples or Chris's examples was
- 14 talking about harm to individuals. It's called the risk
- 15 benefit. We look at, you know, what the potential risks
- 16 are, the potential harm, and we weigh it against the
- 17 benefit. You can't answer the question you're positing
- 18 without the bringing of the two together. So, I would
- 19 say, no, they are apples to apples, not apples to
- 20 oranges.
- 21 MR. CALABRESE: Yes, but it's easy when the
- 22 benefits are to the company and the harms are to the
- 23 person. It's, like, yeah, great. I don't want to be the
- 24 guy on the harm's side. That's why we need government
- 25 standing here saying, that's not okay. This data isn't

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- 1 accurate enough. This is harming people, and you didn't
- 2 give this person a job.
- 3 MR. WOLF: But, Chris, you're assuming that it's
- 4 uniformly harmful to the consumer. No one has said that.

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- 1 have more information about harms, about benefits, we
- 2 need to continue having this discussion, and there may
- 3 come a point where we do need further regulation or
- 4 legislation. But we need more information. We should
- 5 start with the least interventionist approach. If that
- 6 doesn't work, we rachet up the intervention.
- 7 MR. OLSEN: I guess the question I would ask
- 8 before I turn it over to Dan goes back to the
- 9 transparency question. If there is no transparency about
- 10 how the data is being used, then how do we get to the we
- 11 have more information point in order to make a decision?
- 12 It may be that companies internally know how they're
- 13 using the data, but they're the only ones who know that.
- So, Dan, you wanted to --
- MR. CASTRO: I think this would be a good point
- 16 to talk about this paper that we released last week.
- MR. CALABRESE: Everyone else did.
- MR. OLSEN: Let's bring the level down a little
- 19 bit.
- 20 MR. CASTRO: Since you brought it up --
- 21 MR. SPADEA: It's the afternoon panel.
- 22 MR. CASTRO: We released a paper called the Rise
- 23 of Data Poverty in America. This gets to what
- 24 Christopher was talking about, which is, you know, what
- 25 are the individual benefits and risks. So, the point of

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- 1 based on input from wearable devices, are there certain
- 2 communities of people that are being excluded, which
- 3 again sort of suggests that at some level, there's some
- 4 sort of fairness or ethical approach that has to be
- 5 applied as a frame for any of these data collection
- 6 practices.
- 7 MR. CASTRO: Brief response to that. I think
- 8 part of that is data literacy, not only among the, you
- 9 know, data scientists so they understand what exactly it
- 10 is they're doing but also policymakers who are
- 11 interpreting this data or interpreting the results.
- 12 MR. OLSEN: Correct.
- 13 MR. CASTRO: Hopefully, you know, we're doing
- 14 some of that today.
- 15 MR. OLSEN: Michael.
- MR. SPADEA: In the street bump example, you
- 17 know, that's a great example of how you can get tripped
- 18 up. But it's also a good example, I think, of how you
- 19 can, you know, fix the situation. So, the answer would
- 20 be not, you know, to get rid of the app or anything like
- 21 that, but if you understand where the smart phone
- 22 saturation is and where it isn't, you can then put in
- 23 mitigating controls.
- 24 So, we know that in areas which will be
- 25 predominantly middle class or upper class, there's going

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- 1 to be high smart phone saturation. Therefore, the
- 2 Department of Public Works is going to get really good
- data on where all the potholes are, and they're going to
- 4 get fixed. But that's not going to happen in the lower
- 5 income neighborhoods. So, what do you do?
- 6 Well, you know you need to have something else
- 7 in place for those neighborhoods. So, you take the money
- 8 that you save from pulling DPW people on pothole patrol,
- 9 or whatever they do, you take some of them, you take half
- 10 of them and you just take that money savings and you put
- 11 it someplace else. You take the other half and just
- 12 throw them right into the neighborhood that doesn't have
- 13 that saturation. At the end of the day, you get to the
- 14 same place. You get there more cheaply. Everybody is
- 15 happy.
- So, you can, where you know where a problem like
- 17 that exists -- and the key thing is the governance that
- 18 Chris talked about earlier. There should be a process to
- 19 spot those risks. The ethics piece comes in where, okay,
- 20 we now need to fix it. We can't just let that harm sit
- 21 out there. But we can still roll forward with the
- 22 application and, you know, with a private company,
- 23 generate revenue and service the consumer.
- 24 MR. OLSEN: Let me key off that and tee up a
- 25 question that we've been sort of hinting at during this

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- 1 panel. There's a debate between a use base model of data
- 2 handling and a data minimization approach. I'll just
- 3 pose this question. There's been talk on various panels
- 4 today about data governance. Chris Wolf mentioned it.
- 5 You need to apply a data governance methodology. We
- 6 talked about making sure we have a clear idea of
- 7 fairness. We talked about having an ethical approach.
- 8 We've talked about how we're at the early stages of these
- 9 sorts of practices.
- So, I put the question to the panel, if we
- 11 haven't resolved the framework for applying an ethical
- 12 construct to data practices or fleshing out harm the way
- 13 we need to, why isn't data minimization still an
- 14 important component of information handling practices?
- 15 MR. WOLF: So, maybe I can start. I referenced
- 16 the fact there are at least 40 different definitions of
- 17 big data, but there's one kind of fundamental
- 18 understanding. It relies on volume, variety, and
- 19 velocity of data that leads to unexpected discoveries.
- 20 So, how do you provide notice at the time of
- 21 collection to allow consumers to make choices about
- 22 discoveries that you don't know will happen? That's sort
- 23 of conceptually one of the problems I have with this idea
- 24 of a collection limitation.
- 25 But I think a more practical issue is one that I

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- 1 think Pam Dixon very candidly acknowledged, is that there
- 2 are huge data sets already out there, structured and
- 3 unstructured, data exhaust, as she referred to it. Even
- 4 if we are able to minimize data collection or to provide
- 5 options that put limits on the collection, we're still
- 6 dealing with huge issues of use.
- 7 As we discussed here today on this panel and
- 8 others, consumers aren't simply going to take advantage
- 9 of the transparency options and make the choices that
- 10 perhaps we think they ought to. There has to be someone
- 11 responsible in the ecosystem. That's why, you know, we
- 12 urge the governance model and the focus on use without
- 13 rejecting the FIPP of collection, but without unduly
- 14 placing emphasis on it.
- 15 MR. OLSEN: Anyone else want to comment on this?
- 16 MR. CALABRESE: Yes. You'll be shocked to learn
- 17 that I think that use it not enough in and of itself. I
- 18 think data minimization has an important role. But I
- 19 guess I would put a plug in for all the FIPPs here,
- 20 right. I mean, the fact is that a lot of times consumers
- 21 don't take the time to know about what's being collected
- 22 about them because there's nothing in it for them. All
- 23 they can do is, like, learn about it and go, well, you're
- out of luck, like you don't have the rights to do
- 25 anything with this information or limit it.

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1 So, you know, I think that having both

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- 1 right. No one was going to do that.
- Now, you know, using data, you can actually say,
- 3 okay, I'll have a GPS-enabled device. I will tell you
- 4 where I am. You can have this data about me so I will
- 5 prove that I'm not running off with the car. That way,
- 6 there's a significantly lower risk to you. Now you'll
- 7 make a loan.
- 8 So, you have all these dealerships that are now
- 9 making loans to individuals that they didn't have access
- 10 before. So, you know, if you're a single dad and you get
- 11 a job, you need reliable transportation, now you can do
- 12 that. That's the consumer using data for good. That's
- 13 what we want to see more of.
- 14 MR. CALABRESE: That's voluntary. I'm choosing
- 15 to give you that data in response to a need. I mean,
- 16 that's completely different than my unwilling disclosure
- 17 of my salary through a third party data broker. It's
- 18 apples to oranges.
- 19 MR. OLSEN: Let me turn to one point we've
- 20 touched on a bit earlier today and tee it up this way.
- 21 Data governance, seems like everyone agrees, is
- 22 important. Companies are moving towards more formal risk
- 23 benefit assessments, which seems like a good step. We've
- 24 discussed at length the transparency issue there. It may
- 25 not be visible how companies are applying the data

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- 1 governance methodology.
- 2 So, should consumers consider other options that
- 3 exist or should we consider other options from a
- 4 technological standpoint? Should we push for data
- 5 tagging, for example, that would identify the provenance
- of data elements, or are we beyond that? Or, should we
- 7 consider, you know, random identifiers that would mask
- 8 your identity as you navigate the web so that you appear
- 9 to be a new person every time you visit a particular web
- 10 site? Or should we entrust our data to a third party
- 11 with a permissions scheme? Are there measures consumers
- 12 can take or companies can deliver that would mitigate the
- 13 risk that the data would be used in harmful ways?
- 14 MR. WOLF: Unlike your first question, which I
- 15 refuse to answer, which is a yes or no question, the
- 16 answer to all of your questions is yes. I think
- 17 technology does have potentially a very significant role
- 18 here to play to provide exactly those kinds of
- 19 protections, exactly those kinds of options. You didn't
- 20 say de-identification specifically, but I think that was
- 21 implicit in your question about random identifiers. So,
- 22 you know, I think there's great hope in technologists.
- 23 They've certainly gotten a lot richer than lawyers.
- MR. OLSEN: Even you, Chris?
- 25 MR. WOLF: Hey, that's private information.

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- 1 MR. CALABRESE: I've seen those.
- 2 MR. OLSEN: Anyone else want to address it?
- 3 MR. SPADEA: I think it ties in nicely to the
- 4 reasonable or the responsible use, you know, viewpoint.
- 5 If you own it, if you have the data, you're responsible
- 6 for it. I would interpret that quite broadly. You're
- 7 responsible for, you know, who it's transferred to.
- 8 You're responsible to keep it, you know, secure. You
- 9 have to act in a responsible manner. Implicit in all the
- 10 risk mitigants that you just set out there, those would
- 11 all be tools in the toolbox of the organization to help,
- 12 you know, mitigate these risks. They need to act in a
- 13 responsible manner.
- I would just add, I think actually the
- 15 responsible use viewpoint requires a strong and well
- 16 resourced regulator because they're the ones at the end
- 17 of the day that are going to really have to make some of
- 18 the terminations about what's responsible. I don't know
- 19 if this is true or not, but somebody from the FTC was
- 20 telling me that the FTC as a resource that, you know, today
- 21 is 50 percent less than it was in the 1970s. If that's a
- 22 true statement, I'm shocked.
- 23 So, I would say I really like the responsible
- 24 use. I think it ties in exactly to what you just said.
- 25 But the FTC needs a little more muscle to make sure data

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- 1 is used responsibly.
- 2 MR. OLSEN: Anyone hear that who has the purse
- 3 strings?
- 4 MR. WOLF: Michael will be taking up a
- 5 collection at the door.
- 6 MR. OLSEN: So, we have, I think, just under
- 7 five minutes. I'd like to ask each of the panelists in
- 8 their closing make recommendations to anyone they want.
- 9 You can make a recommendation to industry, to the FTC or
- 10 other regulators, to congress, or to consumers. What
- 11 would you recommend are the next best steps to take as we
- 12 move into the world of increasingly complex algorithmic
- 13 analysis?
- 14 I'll start here, and we'll move down.
- 15 MR. CALABRESE: My recommendation would be that
- 16 regulators, specifically the FTC, but especially the
- 17 CFPB, very aggressively investigate whether the Equal
- 18 Credit Opportunity Act does reach some of these
- 19 practices, especially the marketing practices and the
- 20 marketing of credit offers, and whether the marketing of
- 21 higher credit offers to particular segments of the
- 22 population in fact discourages those populations from
- 23 pursuing credit offers and, hence, violates the Equal
- 24 Credit Opportunity Act.
- 25 I will do my own little plug and say that I

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- 1 think the ACLU will provide more formal written comment
- 2 on this and encourage this before the close of the
- 3 comment period.
- 4 MR. OLSEN: Thank you.
- 5 Dan.
- 6 MR. CASTRO: So, I'd say, you know, I think this
- 7 is definitely the start of the conversation. We need
- 8 many more voices here. I think it's interesting.
- 9 Today's workshop has been fantastic, but, you know,
- 10 across town, there's a predictive analytics government
- 11 conference going on with some of the best predictive
- 12 analytics data scientists in the country, and they're not
- in the room. So, you know, we need them here. They
- 14 certainly should be part of the conversation.
- 15 I guess my recommendation here is that, you
- 16 know, we really need to be thinking about the benefits
- 17 here. To me, if you care about discrimination, if you're
- 18 worried about healthcare or improving education for our
- 19 kids, the biggest risk is not how data is being used;
- 20 it's that we won't use it enough. We need to figure out
- 21 a regulatory environment and policy recommendations to
- 22 help encourage more use of data.
- MR. OLSEN: Jeanette.
- 24 MS. FITZGERALD: So, I would say that we need to
- 25 spend time figuring out the best way to educate consumers

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- 1 about the data that's being used on them, about them.
- 2 It's not just how it's being used, but we also need to
- 3 teach them that they can talk to the companies that have
- 4 their data. They can ask questions. Those people will
- 5 help them understand what information they have and how
- 6 it's being used.
- 7 I would encourage any other company that's been
- 8 thrown in the data broker realm that they, too, think
- 9 about ways that they can show consumers the information
- 10 they hold on them and how it's being used, what category
- 11 people fall in.
- 12 MR. GILLULA: So, I would build off what
- 13 Jeanette said. I do think that getting consumers
- 14 educated about these sorts of things would be a huge
- 15 benefit. I think part of that goes to the transparency
- 16 we've been talking about. I think it would actually be a
- 17 benefit for data brokers and marketers to be a little
- 18 more forthcoming about that sort of thing.
- 19 Right now, if you try to go and find this stuff,
- 20 it feels like diving into a deep and shadowy world. That
- 21 may not be what they mean it to be, but that's what it
- 22 feels like. I realize a lot of this is trade secrets,
- 23 secret sauce, but even just sort of giving general ideas
- 24 to consumers I think would be a huge benefit.
- 25 The other recommendation that I would make is

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- 1 actually towards the FTC and really anyone sort of
- 2 observing this space. Look closer, look past the height.
- 3 I'm going to reiterate this point that I said earlier
- 4 because I don't think it was adequately addressed, that a
- 5 lot of the benefits that people tout about big data are
- 6 benefits that come from analyzing and learning things

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- 1 appetite is, and then put controls in place. While I
- 2 guess some of the questions are difficult, a lot of it is

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- 1 MR. WOLF: So, I'm hoping that just as privacy
- 2 by design is entered into the lexicon of all privacy
- 3 professionals, that data benefit analysis or benefit risk
- 4 analysis with respect to the use of big data will also
- 5 become something that's reflexive and something that
- 6 every privacy professional talks about.
- 7 I think that will avoid a problem I see with
- 8 Jeremy's analysis of focusing on who benefits. If you
- 9 put rigid one size fits all restrictions on the
- 10 collection and use of data, you're not going to have
- 11 benefits for anybody.
- 12 MR. OLSEN: Well, with that, I would invite the
- 13 audience to thank our panelists for a lively discussion.
- 14 Thank you, guys.
- 15 (Applause.)
- MR. OLSEN: Jessica Rich, Director of the Bureau
- 17 of Consumer Protection, is going to give closing remarks.
- 18 MS. RICH: So, good afternoon. Many of you are
- 19 still here, I see. It's great. We've had a really great
- 20 day of discussion and debate regarding consumer
- 21 protection issues surrounding big data and, in
- 22 particular, its potential impact on certain consumer
- 23 groups.
- 24 My remarks will be short and sweet. They're
- 25 never quite a short as I think, but they'll be short and

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- 1 sweet because I know it's been a long day for everybody.
- 2 First, I want to thank the team, many of whom
- 3 are sitting over there, that put together this terrific
- 4 event: Tiffany George, Katherine Armstrong, and Chris
- 5 Olsen here from the Division of Privacy and Identity
- 6 Protection; Katie Worthman, Patrick Eagan-Van Meter, and
- 7 Malini Mithal from our Division of Financial Practices;
- 8 and Jessica Skretch and Lesley Fair from our Division of
- 9 Consumer and Business Education.
- 10 And also thanks to our event planning and web
- 11 teams, our press office and honors paralegals for all of
- 12 their help. It takes a lot of people to put these on.
- 13 And thanks, of course, to our great panelists and our
- 14 audience and all of the folks who we spoke to and met
- 15 with as we were planning this event.
- So, this workshop was part of the FTC's ongoing
- 17 program to examine emerging or growing consumer
- 18 protection issues. It was an inevitable follow up to
- 19 what we learned at our seminars on big data last spring,
- 20 what came out of our data broker report, and what we
- 21 learn every day by just opening up the paper -- yes, I
- 22 still get a paper delivered to my door, a hard copy --
- 23 and following industry developments.
- 24 Today we learned about many beneficial uses of
- 25 big data. For example, we heard case studies about how

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- 1 big data can help fight discrimination, predict the risk
- 2 of homelessness, increase diversity in the workplace,
- 3 help ensure certain populations are getting the
- 4 healthcare they need, and actually empower traditionally
- 5 vulnerable populations.
- 6 But we also discussed the risk that big data can
- 7 lead to selective opportunities, stigmatization, and
- 8 discrimination. For example, Latanya Sweeney presented
- 9 some interesting preliminary questions about how big data
- 10 may impact the ads that visitors to certain web sites see
- 11 based on the presumed race of the visitor.
- 12 Solon Barocas discussed the ways in which
- 13 existing patterns of discrimination inherent biases
- 14 present in the use of little data, such as the
- 15 categorization of consumers based on their likelihood to
- 16 buy can be replicated with potentially greater scope or
- 17 scale in the use of bigger data.
- Other panelists talked about how predictions
- 19 developed for one purpose, such as whether a person will
- 20 drop out of school or buy a particular product, could be
- 21 reused for more harmful purposes, or as a proxy for
- 22 income level, race, or other characteristics.
- 23 We discussed many important questions for which
- 24 we need to continue seeking answers. How will big data
- 25 be used for marketing, fraud detection, or the

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- 1 eligibility for various offers? How do existing laws
- 2 apply to big data? Even apart from laws, how do
- 3 traditional approaches to privacy apply to big data? Are
- 4 transparency and choice still important and feasible in
- 5 this environment? What about data minimization and data
- 6 de-identification?
- 7 We also discussed what happens when certain
- 8 populations don't have the same sort of access to
- 9 technology as other consumers. Will inequalities result
- 10 from this lack of collection and use of data that could
- 11 otherwise provide benefits to these populations?
- We began, but hardly finished, discussing the
- 13 overarching question that was the basis for this
- 14 workshop: how will all of these new and evolving
- 15 practices impact certain populations, and what steps can
- 16 and should businesses take to make sure particular groups
- 17 are not disproportionately or negatively affected?
- I think it's fair to say everyone here today
- 19 agrees that big data is not going away and it's only
- 20 going to get bigger. Our collective challenge is to make
- 21 sure that technology continues to provide its many
- 22 benefits and opportunities to consumers while adhering to
- 23 core consumer protection values and principles.
- 24 To that end, our chairwoman this morning
- 25 outlined three steps for moving forward, which I'll

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1		With that, let me just thank everyone for
2	coming	. Have a great evening.
3		(Whereupon, the proceeding was concluded.)
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3	CASE TITLE: BIG DATA: A TOOL FOR INCLUSION OR EXCLUSION
4	DATE: SEPTEMBER 15, 2014
5	
6	I HEREBY CERTIFY that the transcript contained
7	herein is a full and accurate transcript of the notes
8	taken by me at the hearing on the above cause before the
9	FEDERAL TRADE COMMISSION to the best of my knowledge and
10	belief.
11	DATED: SEPTEMBER 22, 2014
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16	CERTIFICATION OF PROOFREADER
17	

I HEREBY CERTIFY that I proofread the transcript for