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CALIFORNIA PRIVACY PROTECTION AGENCY

TRANSCRIPTION OF RECORDED PUBLIC MEETING

MARCH 30, 2022

SACRAMENTO, CALIFORNIA

- Present:
- JENNIFER M. URBAN, Chair
  - LYDIA DE LA TORRE, Board Member
  - VINHCENT LE, Board Member
  - ANGELA SIERRA, Board Member
  - J. CHRISTOPHER THOMPSON, Board Member
  - JUSTIN GOURLEY, Moderator
  - SAFIYA NOBLE, Presenter
  - GWENDAL LEGRAND, Presenter
  - CHRIS HOOFNAGLE, Presenter
  - ANDREW SELBST, Presenter
  - MARGOT KAMINSKI, Presenter

Transcribed by: Mariam Ayad,  
eScribers, LLC  
Phoenix, Arizona

1                                   **TRANSCRIBED RECORDED PUBLIC MEETING**

2                                                   **March 30, 2022**

3           **MR. GOURLEY:** Okay, Chairperson Urban. I think  
4 we're okay to start now.

5           **MS. URBAN:** Thank you very much, Mr. Gourley. And  
6 good morning, everyone joining us today. My name is  
7 Jennifer Urban, and I am the chairperson of the  
8 California Privacy Protection Agency Board. Welcome  
9 back, or welcome for the first time if you didn't join us  
10 yesterday, to our March 2022 pre-rulemaking informational  
11 sessions.

12           We are now back in session and this is day two on  
13 the program. As a reminder, these sessions are being  
14 recorded.

15           I would now like to ask our moderator, Mr. Justin  
16 Gourley, to please conduct the roll call.

17           **MR. GOURLEY:** Thank you, Chairperson Urban. I will  
18 conduct the roll call now.

19           Ms. De la Torre.

20           **MS. DE LA TORRE:** Present.

21           **MR. GOURLEY:** Mr. Le.

22           **MR. LE:** Present.

23           **MR. GOURLEY:** Ms. Sierra.

24           **MS. SIERRA:** Present.

25           **MR. GOURLEY:** Mr. Thompson.

1 Chairperson Urban.

2 **MS. URBAN:** Present.

3 **MR. GOURLEY:** Chairperson Urban, there are four  
4 board members present.

5 **MS. URBAN:** Thank you very much, Mr. Gourley. The  
6 board has established a quorum. Thank you, board  
7 members, appreciate your service in joining us.

8 Before we get to the substance of the day, as I did  
9 yesterday, I am going to go over some of the logistical  
10 announcements that are necessary for everyone to be able  
11 to follow along as easily as possible. For those of you  
12 whom this is a repeat, thank you for your patience as we  
13 make sure everyone has a clear understanding.

14 I'd like to ask first that everyone remember to  
15 please check that your microphone is muted when you are  
16 not speaking. And please note also that the meeting is  
17 being recorded.

18 Meetings and events involving a majority of board  
19 members, including informational and instructional  
20 sessions like these, will be run according to the Bagley-  
21 Keene Open Meeting Act as required by law.

22 First, let me sketch the format of the pre-  
23 rulemaking informational session so everyone has a sense  
24 of how things will proceed today. Each day, yesterday  
25 and today, includes a set of experts presentations that

1 will provide background information to the board, agency  
2 staff, and the public on topics that are potentially  
3 relevant to the agency's upcoming rulemaking.

4       If you review the agenda, you'll see that we have an  
5 opening item today that I'm going through now and then an  
6 item comprising a series of presentations on today's  
7 topic. Accordingly, after we finish our item to open the  
8 day, we'll do public comment. And then we'll go to the  
9 item with our series of presentations for the today.

10       Let me provide some information on how to engage in  
11 public comment. I will call for public comment after  
12 each item, so after this introductory item and then after  
13 the presentations at the end of the day. Each speaker  
14 will be limited to three minutes.

15       If you wish to speak on an item, please use the  
16 "Raise your hand" function, which can be found in the  
17 reaction feature on the bottom of your Zoom screen if you  
18 want to take a second to locate it. Our moderator will  
19 request that you unmute yourself for comment. When your  
20 comment is completed, the moderator will mute you.

21       It is helpful if you identify yourself, but this is  
22 entirely voluntary, and you can input a pseudonym when  
23 you log into the video conference.

24       I'd like to remind everyone of the rules of the road  
25 under Bagley-Keene. Bagley-Keene does require that

1 comments be tied to the agenda item in question.  
2 Accordingly, please do plan to comment on today's  
3 presentations at the end of today's session. Although  
4 you will be able to comment on any of the presentations  
5 from today, yesterday it was appropriate to comment on  
6 the presentations for yesterday. I'd like to remind  
7 everyone who speaks in public comment to please stay on  
8 topic and keep your comments to three minutes.

9       Now, a little bit more on the schedule. Yesterday  
10 we took a break for lunch and another short break. Today  
11 is likely to be similar, excuse me, in terms of breaks,  
12 but because of the need to accommodate our guest  
13 speakers' schedules, our longer break is most likely  
14 going to be a little bit earlier in the day than is  
15 traditional for lunch. I just don't want to surprise  
16 people too much.

17       We expect to break after the first two informational  
18 presentations, if you want to check the agenda. We'll  
19 also take additional shorter breaks as needed. Please do  
20 note that my estimates of timing may not hold. At the  
21 same time, I think that staff says to expect to finish  
22 today sometime in sort of early to mid-afternoon. It is  
23 possible, you know, that it will go longer but that is  
24 the expectation.

25       As I mentioned, this is being recorded. In case you

1 need to come and go outside of breaks, you won't miss  
2 anything that you can't review later.

3 My thanks to all of the expert speakers who are  
4 taking time to present to us today and tomorrow and to  
5 all the people working to make the meeting possible. A  
6 great deal of work goes into any public meeting or event  
7 and this is certainly no exception.

8 I would like to thank the team from the Office of  
9 the Attorney General supporting us today, Mr. Mulai Dajou  
10 (ph.) Dajou, who is our meeting counsel, and Mr. Justin  
11 Gourley, who is acting as moderator. Ms. Trini Hurtado  
12 (ph.) is a conference services expert who organized the  
13 meeting infrastructure. And Ms. Stacey Hineson (ph.) is  
14 the person who's organizing the administrative staffing  
15 and resources.

16 As I said yesterday, I'd also just like to thank  
17 everyone at multiple agencies who have been supporting  
18 us, including the Department of Consumer Affairs, the  
19 Business and Consumer Services Housing Agency, the  
20 Department of General Services, and the Office of the  
21 Attorney General, among others.

22 Before we move to today's presentations, I'd also  
23 like to situate today's program with our pre-rulemaking  
24 activities and to invite your participation in our pre-  
25 rulemaking work. Some of you participated in and some of

1 you may recall that we started our pre-rulemaking work in  
2 the fall of 2021 with an invitation for written comment.  
3 And we were delighted to receive many substantive  
4 responses to that.

5 The board also has discussed a desire for  
6 informational sessions and informational hearings and  
7 that is what we're doing now. We've announced two sets  
8 of pre-rulemaking events. First, these informational  
9 sessions, and second, stakeholder sessions.

10 The pre-rulemaking informational sessions today and  
11 tomorrow, as I mentioned, will provide background  
12 information. The speakers for these informational  
13 sessions are academics who study relevant topics and  
14 officials from the California Office of the Attorney  
15 General, the California Privacy Protection Agency, and  
16 the European Data Protection Board. We very much hope  
17 that these will be helpful information.

18 It is important to note that our guest presenters'  
19 view should be taken as the view of the agency or the  
20 board. They are the presenters' views only.

21 Our second set of pre-rulemaking events will be pre-  
22 rulemaking stakeholder sessions, which will follow in a  
23 month or so. Stakeholder sessions are designed to gather  
24 stakeholder input complementary to the written  
25 stakeholder input received in response to our preliminary

1 invitation for comment. Like the written input, this  
2 information will be very helpful. There are many  
3 knowledgeable stakeholders who can offer input based on  
4 their specific experience, their expertise, and so forth.

5 I got a very helpful question yesterday during  
6 public comment, asking me what is a stakeholder. A  
7 stakeholder is anyone with an interest in the topics  
8 under the jurisdiction of the agency, so Californians  
9 privacy. And a stakeholder is anyone from a consumer to  
10 a local muni -- a local interest group to a business  
11 who's implementing the law to business associations or  
12 nonprofits who work on consumer issues, and on and on.  
13 It is anyone who is interested in our work.

14 I also want to be clear about what I mean by  
15 experience and expertise. We are hearing today and  
16 tomorrow from speakers who have made formal studies of  
17 the topics on which they're speaking. I just want to be  
18 sure that that doesn't seem to anyone as though that's  
19 what we expect for expertise. There are many kinds of  
20 expertise.

21 Stakeholders have many experiences and expertise  
22 that will be extremely helpful. For example, as I  
23 mentioned, an individual business implementing the  
24 California Privacy Protection Act, an individual consumer  
25 who has been working to exercise her rights, associations



1 who represent different groups who have an interest in  
2 the rulemaking, and probably many I haven't, you know,  
3 added to the list. All of those experiences and  
4 expertise will be very helpful, and I really would like  
5 to encourage people to consider signing up.

6       So everyone who is interested in participating,  
7 please do consider signing up for the stakeholder  
8 session. You can find more information on our website,  
9 [CPPA.ca.gov](http://CPPA.ca.gov), on the regulations page. There, you'll find  
10 information about logistics and a link to a sign-up form.

11       Please note that the date for the stakeholder  
12 sessions is not yet set because staff needs to see, you  
13 know, how many sign-ups roughly and also to look for --  
14 they're working on venue options that will have a  
15 component for people to be able to come in person.

16       But please even though there isn't a date yet,  
17 please do feel free to sign up now. The agency will  
18 contact you with options for participation. And you're  
19 always free to decline to participate if the final dates  
20 are inconvenient for you.

21       Also, if we get to the stakeholder sessions and you  
22 find you didn't have time or didn't remember to sign up,  
23 there will be opportunities for general public comment at  
24 those session as well. So please check it out and  
25 consider participating. If you have questions, write to

1 info@CPPA.ca.gov.

2 All right. Thanks, everybody. And is there any  
3 public comment this morning from those in the audience?

4 **MR. GOURLEY:** Thank you, Chairperson Urban. It  
5 looks like there's a couple. And as a reminder for  
6 anybody, please use the "Raised hand" button to indicate  
7 that you'd like to make a comment. You will have three  
8 minutes to make your comment.

9 Ms. Gellis -- I hope I said that right -- you now  
10 have permission to unmute yourself.

11 **MS. GELLIS:** Thank you very much. I'm unmuted I  
12 believe. Okay.

13 Thank you. My name is Cathy Gellis. I'm a lawyer  
14 in the San Francisco Bay Area who works on the issues of  
15 technology and civil liberties including privacy and free  
16 speech. I want to bring up at this point two comments.

17 The first more logistical, which is asking that the  
18 opportunity for public comment be better publicized and  
19 that the specific logistics for when, how be better  
20 explained in advance. So for instance, the details that  
21 were articulated at the beginning of this session were  
22 really helpful, and it would be great to have been able  
23 to read them in advance in the agenda.

24 And the second point I'd like to just put on the  
25 record is -- gets back to the stakeholder idea. The

1 policy you produce will touch on other domains, including  
2 innovation and expression more generally. And I want to  
3 make sure that you hear from experts who may not even  
4 think of themselves as privacy experts but people who may  
5 be experts in other areas or just practitioners or people  
6 who need to live with the consequences of how your policy  
7 will interact with these -- with their needs and the  
8 reality of other policy considerations, and to make sure  
9 that that's solicited and a part of the picture that's  
10 solicited and incorporated before any regulations are  
11 promulgated. Thank you.

12 **MS. URBAN:** Thank you very much, Ms. Gellis.

13 Mr. Gourley, is there further public comment?

14 **MR. GOURLEY:** Yes. Mr. Kloczko, you now have  
15 permission to unmute yourself. Thank you.

16 **MR. KLOCZKO:** Hi. Good morning, everyone. This is  
17 Justin Kloczko from Consumer Watchdog. And we're  
18 particularly concerned about precise geolocation in cars.  
19 The drafters of the CPRA envisioned the law would address  
20 overreaching the auto industry. We believe manufacturers  
21 do not need to know our geolocations to operate. Having  
22 geolocation for emergency services, for example, does not  
23 mean they can take our safety hostage and then sell or  
24 share our data.

25 This is a real serious issue for people. Just some

1 concerns I'll highlight quickly. The federal government  
2 reported that thirteen of the leading automakers collect,  
3 use, and share our data in order to track and market  
4 products without any really substantial limitation. If  
5 you're in a newish car, it's capturing everything you're  
6 doing, such as location, speed, braking, your buying  
7 habits, your text messages, kind of your total identity.

8       And you know, we've learned car manufacturers are  
9 working with software companies to use this data to bring  
10 advertising right into the dashboard feeding directly,  
11 you know, apps such as Domino's or Starbucks. So they  
12 can better know when a person is likely to buy, say, a  
13 cup of coffee. Data miners like WeHo, you know, tout its  
14 mobility data of over ten million connected cars and they  
15 claim to see precise speed in which cars are traveling on  
16 95 percent of U.S. roads.

17       And geolocation can really meddle with insurance  
18 premiums. We've learned that insurance companies are  
19 working with the state insurance commissioner to allow  
20 telemedics data to calculate our insurance premiums,  
21 which we believe will -- will redline insurance policies  
22 and lead to discrimination.

23       And you know, one of the biggest misconceptions is  
24 that technology is making driving safer. It hasn't.  
25 Deaths are at all-time highs, prompting the federal

1 government to act recently.

2 So the intent behind the CPRA was for greater  
3 consumer protection, not less. But we're looking forward  
4 to regulations that end this era of data monopoly.  
5 Today, consumer watchdog is publishing our report,  
6 connected cars and the threat to your privacy. And so we  
7 just wanted to say that and thank you to all the board  
8 members for your time and patience.

9 **MS. URBAN:** Thank you very much, Mr. Kloczko.  
10 Mr. Gourley, is there further comment?

11 **MR. GOURLEY:** There are no other comments at this  
12 time.

13 **MS. URBAN:** Thank you, Mr. Gourley.

14 As is my practice, I will wait just a little while  
15 in case anyone is formulating a thought as can be the  
16 case. And if not, then we will move on to the next  
17 agenda item.

18 **MR. GOURLEY:** There's no one else at this time.  
19 Thank you.

20 **MS. URBAN:** Thank you very much, Mr. Gourley.

21 With that, we will move into the informational  
22 presentations for the day, which you can find under  
23 agenda item number 5, informational presentations  
24 continued, overview of risk assessments and consumer  
25 rights with regards to public -- excuse me, to automated

1 decision making. You can follow along on the program for  
2 the day. Again, please note that we will take some  
3 breaks.

4 I will introduce each speaker with a short biography  
5 and then they will present to us. I understand that  
6 speaker bios and any slide presentations speakers use  
7 will be available on the agency's website as soon as they  
8 can be processed. We are also -- we'll have a transcript  
9 as well as the recordings. So again, you'll have lots of  
10 opportunity to review the information if you would like  
11 in the future.

12 With that, I am very pleased to introduce our first  
13 speaker for the day, Dr. Safiya Umoja Noble, who will be  
14 discussing data processing and automated decision making  
15 and challenges and solutions there -- about that. Dr.  
16 Noble is an internet studies scholar and professor of  
17 gender studies and African American studies at the  
18 University of California Los Angeles. There at UCLA, she  
19 serves as the cofounder and codirector of the UCLA Center  
20 for Critical Internet Inquiry, known as C2I2.

21 She holds affiliations in the school of education  
22 and information studies and is a research associate at  
23 the Oxford Internet Institute at the University of Oxford  
24 where is a commissioner on the Oxford Commission on AI  
25 and good governance. Dr. Noble's academic research

1 focuses on the internet and its impact on society. Her  
2 work is both sociological and interdisciplinary, marking  
3 the way that digital media interacts with the issues of  
4 race, gender, culture, power, and technology.

5 Dr. Noble is the author of Algorithms of Oppression,  
6 How Search Engines Reinforce Racism, which is not only an  
7 important academic contribution, but also a best seller.  
8 She's also the coeditor of multiple edited volumes.

9 Dr. Noble has won a number of prizes and  
10 recognitions for her groundbreaking work. I want to  
11 highlight a very special one, particularly for the public  
12 who don't necessarily -- to academics this is an  
13 extremely important award. In 2021, she was recognized  
14 as a MacArthur Foundation Fellow. These are commonly  
15 referred to as genius awards. They are given to people  
16 whose work has been truly groundbreaking and was given to  
17 Dr. Noble for her groundbreaking work on algorithmic  
18 discrimination.

19 MacArthur Fellows receive prize money to use as they  
20 see fit given the groundbreaking nature of how they think  
21 and the work that they do. Dr. Noble has founded a non-  
22 profit, Equity Engine, to accelerate investment in  
23 companies, education, and networks driven by women of  
24 color.

25 Dr. Noble holds a PhD and an MS in library and

1 information science from the University of Illinois at  
2 Urbana Champaign. And a BA in sociology from California  
3 State University Fresno. She has been recognized as a  
4 distinguished alumna by multiple of her institutions.

5 Dr. Noble is a board member of the Cyber Civil  
6 Rights Initiative, serving those vulnerable to online  
7 harassment. And was recently appointed a board member  
8 for the Joint Center for Political and Economic Studies,  
9 often thought of as America's black think tank.

10 Professor Noble, thank you very much for being with  
11 us today, and I will turn it over to you.

12 **DR. NOBLE:** Thank you so much, Ms. Urban. I am  
13 really pleased and honored to participate in this  
14 conversation and in this educational session.

15 I want to thank our brilliant team at the UCLA  
16 Center for Critical Internet Inquiry, particularly Akina,  
17 who is our policy director and is major contributor to  
18 preparing this presentation. And I want to say that some  
19 of what I may say today may be obvious for some members  
20 of the committee based on your own expertise. And some  
21 of it may not.

22 We thought it would be important as a public  
23 institution at UCLA to share our expertise and research  
24 that comes both our of our center and out of the field  
25 that is directly relevant to these processes and of



1 course there's much more so I would offer that the  
2 University of California system has many brilliant  
3 scholars and thinkers who should also be called upon in  
4 these processes and in the coming months and weeks to  
5 help share expertise.

6       So one of the things I want to say just briefly that  
7 brought me to this work is that about ten years ago or  
8 so, I started looking at -- well, I was leaving the  
9 advertising industry where I'd spent about a fifteen-year  
10 career in advertising right at the time that search  
11 engine optimization and kind of the ad tech business was  
12 starting to really take hold.

13       And I was thinking about the way in which systems  
14 like search engines and other types of digital media  
15 platforms were being relied upon by the public for deep  
16 information needs. People were using search technology  
17 in particular not like an advertising platform entirely,  
18 but also using it let's say in place of or in lieu of  
19 what libraries had previously provided for society or  
20 schools or teachers or professors or other kinds of  
21 subject matter experts, even parents.

22       And what I'd found as I was doing kind of a careful  
23 study of what happens in these advertising platforms is  
24 that there was a tremendous amount of misinformation,  
25 misrepresentative information. We now ten years later

1 have words like disinformation to describe the kinds of  
2 phenomena that we see on the internet when it comes to  
3 things that are patently false, things that are, you know  
4 -- take the shape of propaganda, if you will.

5       And I was really concerned with the way in which  
6 this would have disproportionate harm on protective  
7 classes, people who are already historically marginalized  
8 and have been historically and contemporarily  
9 discriminated against. And that really is kind of the  
10 impetus for the work that I've been doing for the past  
11 decades.

12       So what we find now ten years later is that while  
13 the conversation used to be that algorithms are for  
14 artificial intelligence, couldn't discriminate or  
15 couldn't be implicated in social harm in these ways  
16 because they were just math, now we have whole fields of  
17 digital studies and internet studies, and we have centers  
18 all over the world that are looking at this intersection  
19 between the internet and society.

20       And we understand of course that reducing algorithms  
21 and data and artificial intelligence and the whole  
22 ecosystem that goes into automated decision-making  
23 systems, reducing that just down to a concept like it's  
24 just math is a little bit like -- I think of it a bit  
25 like saying to biologist what is it to be human, and they

1 tell us that well, we're just cells and mitochondria.

2 Obviously, that is true.

3 But we are also so much more than that. And part of  
4 that has to do with the social context within which our  
5 cells and mitochondria are interacting. And this is of  
6 course true about the way in which artificial  
7 intelligence, algorithms, AI-driven systems are social  
8 phenomena as well.

9 So let me just recap quickly some of the things that  
10 I think that you learned yesterday that kind of set us up  
11 for this brief conversation this morning. Yesterday you  
12 learned about the California Privacy Rights Act as a  
13 whole and its focus on automated decision systems, data  
14 collection, and social scoring. You also learned about  
15 the new consumer rights it affords Californians.

16 You learned about the role in rulemaking for how to  
17 hold companies accountable for protecting these rights.  
18 And this includes rules on how companies should be  
19 performing audits and assessments and what meaning  
20 information they must provide to consumers about the  
21 decision systems they're using.

22 So this morning, I'd like to address some of the  
23 harms that should also be addressed as you're developing  
24 your work. First of all, California is headed in the  
25 right direction with a truly robust privacy act that puts

1 the consumer first. As you can see, many place across  
2 the country have been trying to enact similar consumer  
3 rights focused legislation, specifically in relation to  
4 our data bodies or our data profiles or the data that  
5 describes who we are and is used to make decisions about  
6 consumers or the public.

7 The CPRA's focus on consumer rights in relation to  
8 data and tech also mirrors much of the consentful tech  
9 framework which we support. In the consentful tech  
10 framework, true digital consent is only achieved when its  
11 freely given, reversible, informed, enthusiastic, and  
12 specific. And so I'm going to talk a little bit about  
13 that.

14 Now in determining the new rules for enacting the  
15 California Privacy Act, we think you have a chance to do  
16 something groundbreaking. You can put Californians first  
17 in order to help you do this. And I want to offer some  
18 groundbreaking frameworks and suggestions that might  
19 support the way that you think about this.

20 First, I want to disvalue of any belief that tech,  
21 algorithms, or data are neutral. They simply are not.  
22 They're human-made and they reflect our society.  
23 Therefore, the policies that govern them, the rules  
24 you're writing, cannot be neutral either.

25 From that premise, the opportunities of the CPRA

1 floats the following questions. Since tech is not  
2 neutral, how do we define the meaningful information that  
3 companies much share about their tech to help people see  
4 and assert their rights per the CPPA mandate.

5       Since tech is not neutral, we also want to ask how  
6 deep must the CPPA rules require that rights for people  
7 and responsibilities for companies -- kind of how deep  
8 these rights and responsibilities go in order to support  
9 the people and moving towards a more just and equitable  
10 world. And for us, we really think about the social,  
11 kind of political, and economic context of justice and  
12 how justice and equity are realized or subordinated or  
13 subverted through a variety of different kinds of data  
14 practices.

15       Since the tech is not neutral, we also want to ask,  
16 how can automated decision systems be used to move from  
17 perpetuating the status quo to cultivating more equity  
18 and justice. And this of course has been I think a  
19 tremendously understudied area. Of course we are  
20 concerned with this in our center at UCLA but this whole  
21 framework if we're thinking about algorithmic  
22 discrimination, there are a number of organizations and  
23 people and we would be happy to also point you toward  
24 those people, to really help us understand the way in  
25 which data can be implicated in discrimination.

1 All right. So let's begin with this first question  
2 that since tech is not neutral, how can we define  
3 meaningful information that companies must share about  
4 their tech to help people see and assert their rights per  
5 the CPPA mandate. I think a large part of your charge is  
6 requiring businesses' response to access requests to  
7 include meaningful information about the logic involved  
8 in automated decision systems.

9 This is a very important task. Reminding ourselves  
10 that tech is not neutral, we know that the rules to  
11 define meaningful information must be designed to give  
12 consumers true power, especially consumers from  
13 historically marginalized communities and federally  
14 protected classes.

15 The tech, the automated decision systems designed by  
16 companies are not neutral because they are fundamentally  
17 designed with this kind of mandate, if you will, that  
18 they promote the company's profit. And one of the things  
19 that we find most challenging in this domain is that the  
20 ethical tensions around whether a company discriminates,  
21 whether it's implicated in designing technologies that  
22 are harmful in society is always put up against is the  
23 profit imperative. And even in some cases, let's say  
24 mandates that shareholder values be maximized at all  
25 costs. So those tensions have to be I think acknowledged

1 and in the process as you're moving through this work.

2       Sometimes this needs a product that is good  
3 consumers -- for consumers but unfortunately it can also  
4 mean that products that are good for some consumers are  
5 kind of predatory for others. So this is one of the  
6 cases where oftentimes tech companies are designing kind  
7 of for universal user and they have good results let's  
8 say a majority of users, but then there are outliers and  
9 vulnerable communities who are -- for whom those  
10 technologies might be weaponized or used in harmful ways  
11 against them or in predatory ways.

12       But you see this, for example, with advertisers of  
13 predatory financial instruments who use algorithms to  
14 target their ads to people who are the most in need of  
15 quick financial support and who are often targeted with a  
16 high interest loan. And they're also more likely, these  
17 consumers, to get trapped in the high-payback interest  
18 rate. And kind of a vicious cycle there.

19       So it can mean that a product that does well enough  
20 with consumers, you know, is strong in some ways but it  
21 doesn't necessarily account for people who are in the  
22 margins. And what we see is this often leaves  
23 historically marginalized groups excluded.

24       And another example I would give of a way that kind  
25 of technology works for the majority and then is

1 exclusionary for other would be technology that's used to  
2 screen and diagnose skin cancer. This often works well  
3 for people with lighter skin. But it doesn't work for  
4 people with darker skin. And so there are many, many  
5 different kinds of examples. I won't give you an  
6 exhaustive list today, but I will say these are the kinds  
7 of things that would be seemingly benign to a company and  
8 really we don't even know about the harm until consumers  
9 themselves or consumer interest groups or researchers see  
10 the kind of disparate impact.

11 All right. So from all of this, we often find that  
12 vulnerable communities fair worse in the design process  
13 of a variety of different kinds of technologies. And to  
14 define meaningful information in a superficial way leaves  
15 too much room for companies to give information that  
16 really reinforces their profits or speaks to the majority  
17 of the consumers for whom their product is being used.

18 It gives very little power to consumers, especially  
19 from historically marginalized communities to point out  
20 the flaws and the harm. So instead, meaningful  
21 information should present us with the opportunity to  
22 make public policy, to borrow a phrase from the Center  
23 for Urban Pedagogy. And in order to do this, meaningful  
24 information given by companies about their automated  
25 systems must include a couple of the following things.



1           First, information on the model used to make the  
2 decision. This must be fully and accurately explained  
3 without much abstraction in a way that is understandable  
4 to the people who are affected by the decision system.  
5 If it's too complicated to be explained to an affected  
6 person, perhaps companies should not be allowed to use  
7 that kind of decision model. If we could not explain the  
8 decision model to the people that are affected by it, we  
9 risk allowing decision that are kind of deeply impacting  
10 real humans to be made by models and machines that feel  
11 deeply abstract and nonhuman. So we kind of need to  
12 really address this tension.

13           We also think that information that is shared with  
14 the public should not be -- not only be shared about the  
15 model, it must show the impact of the model. By showing  
16 the impact on the individual, you know, we really help  
17 explain the -- and reveal the differential impact across  
18 different kinds of group or different kinds of people.

19           So we need to understand how these models are  
20 impacting individuals, but that alone is not enough. We  
21 really need to show the impact at the level of community  
22 too. So let me say a little bit more about this.

23           Sharing with an individual meaningful information  
24 that includes the model and how it determined its  
25 decision about that one individual reinforces assumptions

1 about the individual's undeservingness. And we know that  
2 this -- we see this over and over. It divorces, let's  
3 say, the individual decision from a community level  
4 understanding and really often divorces it from the  
5 historical context of how that decision was arrived at.  
6 It really reinforces the idea that there's a neutral or  
7 meritocratic process at play, and of course we know that  
8 this doesn't exist.

9       It isolates the individual and prevents any real  
10 accountability to communities. It's hard to prove, for  
11 example, that you were individually discriminated against  
12 by an algorithm until you start to see that more than 50  
13 percent of African Americans were discriminated against.  
14 So you have to really understand yourself in your own  
15 community class if you're part of a protected class,  
16 whether that decision model is affecting the entire class  
17 that you are a part of.

18       If you can't see how the decision about you as an  
19 individual is tied to other groups, then it's very  
20 difficult to get at how the discrimination is happening.  
21 And what we often find is that people just feel that  
22 they, you know -- the bank didn't approve them for the  
23 loan and they -- it's only until investigative  
24 journalists reveal that, let's say, a bank -- I can think  
25 of one -- that was just in the headlines two weeks ago.

1 That a bank denied loans to 50 percent of the protective  
2 class that they're a part of. And then we start to  
3 understand that maybe there is a problem here with the  
4 data model.

5 All right. Let's take another example where  
6 meaningful information has failed because it's centered  
7 on the individual and it's vague and where it's been  
8 improved upon at least by adding this community level  
9 analysis.

10 So the image here that you see on the left is from  
11 one of the researchers in our center and it's their  
12 interest category profile on Facebook. The interest  
13 categories are an example of Facebook's attempt to give  
14 what they might call meaningful information to users.  
15 Facebook provides each user a list of their interest  
16 categories, categories that advertisers can use to refine  
17 the audience for their ads.

18 Upon first look, it seems pretty benign. And it  
19 seems like Facebook has indeed done away with the racial  
20 profiling categories that they were sued for in 2018 by  
21 the National Fair Housing Alliance and promised to take  
22 down. But when The Markup, investigative journalism news  
23 outlet, compiled community level data using their project  
24 Citizen Browser, it showed a different story. Citizen  
25 Browser is a panel of 1,300 paid participants who

1 provided The Markup with their demographic information  
2 and allowed for periodic capture of their Facebook feed  
3 data. Data that is shared to The Markup where they can  
4 make community level connections rather than seeing the  
5 isolated experiences of an individual that can be  
6 explained away.

7         Their research showed that these interest categories  
8 served as proxies for race categories, allowing Facebook  
9 to skirt their commitments to taking down racial  
10 profiling options for advertisers. Seeing an  
11 individual's interest categories alone, you might not  
12 immediately realize the relationship it has to bigger  
13 communal experiences.

14         This person in this profile I'm showing you who is  
15 black has in their interest category Black Lives Matter.  
16 It's an interest category that they didn't choose but the  
17 Facebook algorithm assigned them. The Markup's research  
18 shows that this was one of the categories that  
19 advertisers could use as a proxy to filter their ads to  
20 target or to exclude black users.

21         Facebook's individualized interest categories don't  
22 even show us the model that it's being used. And Citizen  
23 Browser doesn't have the insider information to show us  
24 the model Facebook uses either. It's clear that Citizen  
25 Browser is an improvement on meaningful information since

1 it shows the communal impact, not just the individual  
2 impact.

3 Now imagine if Facebook had to show that communal  
4 impact as well as provide further detail on the model  
5 that it used. Consumers could truly assert their rights  
6 and demand products that are designed to benefit them,  
7 not just company profits. And of course they also might  
8 be able to see the ways in which they are targeted with  
9 predatory products or steered toward particular kinds of  
10 ideas, including propaganda that often circulates in  
11 Facebook.

12 So let's return to the second question. Since tech  
13 is not neutral, how deep must the CPPA rules require --  
14 excuse me, my long-term COVID effects. I apologize here.  
15 How deep must the CPPA rules require that rights for  
16 people and responsibilities for companies go in order to  
17 support the people in moving towards a more just and  
18 equitable world.

19 So since we can establish through many different  
20 types of research and books that the technology itself is  
21 not neutral, shallow rights and responsibilities will  
22 lead to superficial attempts to satisfy consumer rights  
23 in order to protect company profits.

24 Superficial rights and responsibilities will never  
25 address the deeper societal problems that tech replicates

1 by default. So rights and responsibilities must go as  
2 deep as possible up and through the supply chain. This  
3 means that rights like digital amnesty, reversible  
4 consent, right to know, right to delete, the things  
5 you've reviewed yesterday or a year ago, must happen all  
6 the way through the supply chain.

7       Audits and assessment are one step closer to holding  
8 the companies and their technologies accountable, but  
9 they really are not enough. Many reports have shown the  
10 limitations of audits and assessments because companies  
11 refuse to give the information, governments refuse to  
12 define what automated systems are or the audits and  
13 assessments have insufficient penalties.

14       To overcome this limitation, more rules should be  
15 made to require companies to delete algorithms and the  
16 data associated with these algorithms when these audits  
17 and assessments fail. Deletion of algorithms and  
18 associated data as the ultimate recourse is necessary  
19 because it helps us shift away from the logic of if only  
20 we fixed or debiased the algorithm.

21       And this of course is a very prevalent argument that  
22 you will hear -- you probably have already heard -- which  
23 is this idea that we can somehow debias the algorithms or  
24 that we can kind of fix this at the level of -- by just  
25 kind of tweaking the tech. What this logic focuses on is

1 validating the product, not on supporting the people who  
2 are impacted by the product.

3       So if we commit to supporting people's rights and  
4 businesses' responsibilities through the supply chain  
5 throughout the design process throughout the development  
6 process so deeply that we're willing to tell a company,  
7 that if they continue to fail, they must delete the  
8 algorithm and the data, then we're truly listening to  
9 consumers and not the companies' kind of profit  
10 motivations and the examples that they will give that  
11 will kind of justify and support their own profit  
12 motives.

13       An example of where this logic of deep rights and  
14 responsibilities has failed with devastating consequences  
15 is the California gang database. CalGang, a statewide  
16 gang database developed in the 1990s, has had hundreds of  
17 thousands of Californians listed as being members. At  
18 its height in 2012, CalGang had over 200,000 people  
19 listed as gang affiliated.

20       In 2016, a state audit of CalGang showed that among  
21 those listed in the gang database, 42 entries had  
22 birthdates that indicated that they were one year old or  
23 younger, with the majority of those entries being in the  
24 database because the individual had allegedly admitted to  
25 being a gang member.

1           The 2016 audit also showed that despite federal  
2 legislation that mandated that people would be removed  
3 from the database after five years unless updated with  
4 subsequent criteria, auditors found over 800 individuals  
5 who should have qualified for being purged but were still  
6 on the list. Almost half of these individuals had purge  
7 dates set more than 100 years into the future.

8           Individuals can request to be removed from CalGang.  
9 But according to Urban Peace Institute's 2018 report and  
10 first-hand experience supporting dozens of removal  
11 requests, the process is ineffective. Removal requests  
12 are often denied, people don't know they can make such  
13 requests, and it is unclear if removal protects from  
14 erroneously being added to the database again in the  
15 future.

16           Oversight and rulemaking related to CalGang has  
17 undergone consistent legislative updates since at least  
18 2013 and it continues to fail. Starting January 1, 2020,  
19 the Department of Justice will now do regular audits of  
20 CalGang. But at some point, you have to ask, when is  
21 enough enough?

22           Individuals trapped in this work in technology  
23 suffer consequences that go beyond the technology itself.  
24 The CalGang database is used for employment and military  
25 related screenings. A mother responds to police officers



1 at her front door wanting to question her six-year-old  
2 child about his gang affiliations. A 59-year-old man is  
3 added to the list after playing chess in the park with  
4 friends. The list goes on.

5 With technologies like gang databases, automated  
6 decision like decisions about where to send police is  
7 rooted in the faulty human process of adding names to the  
8 database in a policing system that is rife with  
9 individual racial animus and systemic racist policies and  
10 practices. Audits and assessments keep giving a pass to  
11 CalGang to fix itself, to debias itself. But these  
12 efforts are not and will never be enough.

13 CalGang has had enough time to improve since its  
14 implementation in the 1990s but it continues to fail  
15 Californians. Imagine a world where after a few failed  
16 attempts to fix or debias CalGang, that it was scrapped  
17 instead of being able to stick around and continue to  
18 cause harm in real people's lives.

19 Now, for our last question. Since tech is not  
20 neutral, how can automated decision systems, technology,  
21 algorithms, and data be used to move from perpetuating  
22 that status quo to cultivating equity and justice?

23 While this question might not be the exact purview  
24 on this board, so much of the tech you will see, assess,  
25 audit, and engage with will be tech that perpetuates the

1 status quo.

2 In this case, when we say tech that is not neutral,  
3 it means that tech not only promotes company profits over  
4 consumer rights, but that tech even with the most default  
5 and passive decisions reinforces the status quo, a status  
6 quo that privileges some and punishes others.

7 So what we would need -- what would we need to  
8 overcome this? What would be the technologies we would  
9 be excited to see? What is needed for an ADS to promote  
10 equity and justice?

11 The purpose of the automated decision system must be  
12 to address and redress historical structural racism.  
13 Like the popularized framework of being racist or  
14 antiracist, there is no neutral ground in ADS creation.  
15 So to promote ADS, ADS that support equity and justice,  
16 requires proactive, pro-equity, pro-justice design. You  
17 must consider who benefits and who is harmed by the ADS  
18 and its designed process.

19 If you don't, you'll fail to address and redress the  
20 historical structural racism, sexism, other kinds of  
21 class-based discrimination that is often baked into the  
22 data sets that are used to train machine learning  
23 algorithms and kind of help steer and guide automated  
24 decision making systems. And that means you'll likely  
25 recreate it.

1           And lastly, I want to assure you that pro-equity,  
2 pro-justice race aware algorithms can and do exist. They  
3 were unfortunately hard for me to find for this  
4 presentation, a reminder that there are too few and far  
5 between, but for the lawyers here today, I want to  
6 emphasize that algorithms can be race aware without  
7 triggering disparate impact and affirmative action legal  
8 logics.

9           In fact, I strongly caution us away from the  
10 assumption that any algorithm that -- algorithm that  
11 considers race and justice must by default be defined by  
12 affirmative action logic. Such an assumption reinforces  
13 the false notion that historic privileges are married to  
14 -- kind of part of the meritocracy that's gained and that  
15 the status quo is fair.

16           All that to say there is a tremendous amount of work  
17 that's being done right now to think about the way in  
18 which algorithms and automated decision making systems  
19 are perpetuating historical discrimination and there are  
20 people working on logics that would help reframe and help  
21 us think about true equity in society.

22           So let's think about this again in the real world.  
23 The examples that I've laid out already explored the  
24 failure and potential for automated decision making  
25 systems to be used to further equity and justice.

1 CalGang, as I mentioned, and the decisions that flow from  
2 it, police visits to houses, employment screenings,  
3 deployment of police, and kind of disproportionately into  
4 poor black and Latinx communities, southeast Asian  
5 communities, the question is does it address and redress  
6 historical racism.

7       The obvious answer is no. It perpetuates the  
8 historic racist policing practices of our country and it  
9 makes marginalized communities even more vulnerable. It  
10 leads to more surveillance and stops by the police,  
11 making both police and the people feel like they are  
12 criminal by default, you know, this kind of orientation  
13 to being deployed out to certain neighborhoods reinforces  
14 this idea of inherent criminality of those communities.

15       And of course, who does it benefit and who does it  
16 harm are always the questions that we're asking. In  
17 general, it benefits the CSRA International Inc., a for-  
18 profit company that designed the CalGang software. It  
19 harms the mother who had the deal with the police  
20 officers who came to talk to her about her six-year-old  
21 son. It harms the 59-year-old man who wanted to play  
22 chess with his friends and instead the police were  
23 deployed to the park.

24       This is a technological system that does not  
25 cultivate equity and justice. It creates lists and

1 automated decisions that reinforce inequality and racism.  
2 And there is a company that truly profits from that. On  
3 the other hand is an example of a technology that gets  
4 much closer to cultivating equity and justice. Clear My  
5 Record, a partnership between Code for America and the  
6 San Francisco District Attorney's Office, works on  
7 automated record expungement.

8         The underlying law, California's AB1793 is a law  
9 that tries to address historic racism. AB1793 passed in  
10 2018, mandates that counties' clear convictions for  
11 buying or possessing marijuana, convictions that  
12 disproportionately were targeted towards communities of  
13 color.

14         The law itself aims to decrease police surveillance  
15 and the impact of criminal records on the very  
16 communities that have felt the brunt of racist police  
17 surveillance, a racist criminal legal system, and a  
18 racist public policy that was deployed through the war on  
19 drugs. Adding an automated expungement technology on top  
20 of a law that is moving in the direction of addressing  
21 historic racism means the technology can support that  
22 good underlying law.

23         With Clear My Record, the tech is dependent on the  
24 good privacy -- of the good policy of AB1793, versus with  
25 CalGang, the tech defines and reinforces the regressive

1 policy and the policing system.

2       So these key questions are helping us determine if  
3 technology or an automated decision system is cultivating  
4 equity and justice, and these are the same questions we  
5 can be asking in designing our policy. And it's through  
6 these questions that I formulated by recommendations for  
7 defining meaningful information and how deep rights and  
8 responsibilities should go.

9       As the CPPA board continues to define their  
10 rulemaking in this process, I urge you to use these  
11 grounding questions as you define your rules. Thank you  
12 so much for this opportunity to share these ideas with  
13 you and I'm happy to take any questions.

14       **MS. URBAN:** Thank you very much, Professor Noble for  
15 that incredibly helpful presentation. We thank you very  
16 much for your time and for sharing your expertise with  
17 us.

18       I'm delighted now to introduce our next speaker, Dr.  
19 Gwendal LeGrand, who will be presenting on data privacy  
20 impact assessments, what should be considered. Dr. --  
21 excuse me, Dr. LeGrand is the head of activity for  
22 enforcement support and coordination at the European Data  
23 Protection Board. He is particularly involved in the  
24 coordinated enforcement framework and the support pool of  
25 experts, which aims to assist the national supervisory

1 authorities in their investigations and enforcement  
2 activities of significant common interest. Before  
3 joining the European Data Protection Board, Dr. LeGrand  
4 worked at the French data protection authority, the CNIL.  
5 I'm afraid if I try to say this in French no one will  
6 understand me, so I'm going to say it in English, the  
7 National Commission for Computing and Liberties, where he  
8 was deputy secretary general from 2019 to 2021, director  
9 of technology and innovation from 2014 to 2019, and head  
10 of IT experts department from 2007 to 2014.

11 At the CNIL, Dr. LeGrand focused on new  
12 technologies, information security, digital  
13 transformation, ethics, and international affairs. Dr.  
14 LeGrand served as the coordinator of the technology  
15 subgroup of the European Data Protection Board from 2018  
16 to 2021 and he served as the board's liaison to ISO/IEC  
17 JTC 1, SC 27, WG 5 working group, which developed privacy  
18 standards and is a member of the advisory group of ENISA  
19 representing working party 29 and EDPB since 2015, excuse  
20 me, of the European Data Protection Board, since 2015.

21 Dr. LeGrand started his current academia and was an  
22 associate professor in networking and security. He  
23 received his PhD in computer science from the University  
24 of Paris 6 in July of 2001, and his master's degree in  
25 digital communications from Telecom Paris in 1998. He

1 graduated as an engineer in telecommunications from  
2 SudParis in 1997.

3 I am very pleased and grateful that you are here  
4 today, Dr. LeGrand, and I will turn it over to you.

5 **DR. LEGRAND:** Thank you. Thank you very much for  
6 the introduction. I hope you can see my screen and my  
7 slides. So today -- it's okay? Yes?

8 **MS. URBAN:** Yes.

9 **DR. LEGRAND:** Today I'm going to talk about data  
10 protection impact assessments and GDPR which we call  
11 DPIA, it's currently called PIA, privacy impact  
12 assessment in many regions of the world. And as you  
13 know, we have this concept that was introduced in the  
14 GDPR in 2018.

15 So in Europe as you know, GDPR has replaced the data  
16 protection directive that had been adopted in 1995. And  
17 a directive is a minimal harmonization law. It's a level  
18 that has to be transposed in member state law. In the  
19 directive, there was this provision on private checking  
20 for risky processing. And basically provided that for  
21 risky processing, some prior checking had to be done by  
22 data protection authorities.

23 So to a certain extent and without being overly  
24 simplistic, I would say that compared to this directive  
25 and to the associated national law, what GDPR has done is



1 that it has shifted the prior checking by the authority  
2 to a kind of accountability obligation to carry out DPIA  
3 when the processing is likely to result in a high risk.  
4 I really emphasize the word "likely" because the  
5 objective of the DPIA is to ensure that once you have  
6 implemented the appropriate measures, the processing is  
7 not high risk anymore.

8         And in GDPR, you also see that once you have  
9 implemented measures to mitigate the risks, if the  
10 residual risk is still high after having performed your  
11 DPIA, then you're obliged to consult with a data  
12 protection authority. In practice, this should not  
13 happen, because the objective of DPIA, as I said, is to  
14 find the appropriate safeguards to mitigate the risk that  
15 you identify through that process.

16         So DPIA is a formal process which you find you can -  
17 - the relevant material is Article 45 of GDPR and Article  
18 46 of GDPR. It's not box ticking exercise and if you  
19 want to know more about GDPR -- about -- sorry, about  
20 DPIA, you can also consult the EDPB guidelines on data  
21 protection impact assessments, which the link is on this  
22 slide here. And there is a lot of material also that was  
23 done by some national authorities and I will present this  
24 during my presentation.

25         So today I am going to focus mainly on the cases

1 when an organization is required to perform a DPIA. And  
2 I'm going to explain how we do a DPIA and basically walk  
3 you through the relevant material that can help you in  
4 conducting a DPIA and conducting this exercise.

5 As I said before, the GDPR requires that you as an  
6 organization have to do a DPIA when the processing is  
7 likely to result in a high risk. GDPR gives you free  
8 examples when processing is likely to result in a high  
9 risk. In a nutshell, it is when you have automated  
10 processing which is likely to result in decisions that  
11 produce legal effects. Second example is large-scale  
12 syndicated data. And third example is monitoring of a  
13 public accessible area on a large scale.

14 GDPR also says that the authorities must further  
15 specify the cases when you need to do a DPIA. I'll come  
16 back to this in the next slide. And they can also  
17 specify lists of cases of which a DPIA is not and never  
18 required. And I will also present this in the next  
19 stage.

20 The objective of the DPIA in the GDPR is really to  
21 build and demonstrate compliance. So you need to do an  
22 in-depth analysis of your processing operations. You  
23 describe them, you understand and you describe necessity  
24 and proportionality of the processing. You identify the  
25 risks and you identify the measures to mitigate the

1 risks. So it's really a risk assessment exercise applied  
2 to privacy and data protection.

3 It's something you do prior to the processing. And  
4 it's often compulsory, meaning that if you haven't done a  
5 DPIA when this was required, GDPR provides for some  
6 sanctions. It can go up to 10 million euros or 2 percent  
7 of the annual turnover of a company. And GDPR uses  
8 always the highest number that will be found for the  
9 calculation of the fine.

10 Now, the interesting question is when do we do a  
11 DPIA, because to a certain extent GDPR is not extremely  
12 helpful when it says only that you need to do it when the  
13 processing is likely to result in a high risk. So  
14 there's a group of European authorities, which used to be  
15 called the Article 29 working party and now is called the  
16 European Data Protection Board, which is a body of the  
17 European Union that was created by GDPR, and one of the  
18 missions of this group is to give some guidance on how to  
19 implement GDPR correctly. Guidelines were  
20 adopted -- were prepared and adopted by Article 29 and  
21 were endorsed by EDPB; the link is on the previous slide  
22 that I showed you before. And one of the things that we  
23 did when we elaborated the guidelines was to try to give  
24 some guidance on when to perform a DPIA. We did a  
25 bottom-up exercise, actually, to do this, so we went to

1 all the authorities and we said, well, give me a list of  
2 cases when you think a DPIA should be required, and we  
3 ended up with a list of 100 to 150 processing types of  
4 processing operations, which was not very practical and  
5 workable. So what we tried to do is to group them  
6 together on the basis of different criteria, and this  
7 criteria are the ones that you find in the guidelines and  
8 that are presented in the slide here, on the right side  
9 of the slide. We've identified nine criteria. I won't  
10 list them all, but you can see them on the slide, so  
11 evaluations/scoring, systematic monitoring, large scale,  
12 and so on and so forth, and what we have seen empirically  
13 is that whenever two out of these nine criteria are met,  
14 there's a strong recommendation to perform a DPIA. So  
15 it's a rule of thumb. In some cases, if there's more  
16 than two or -- if there's two or more than two, it means  
17 you need to think twice if you decide not to do DPIA.  
18 And in some cases, if there's only one of the criteria  
19 that are met, it's recommendation is a good practice to  
20 do DPIOs.

21       These nine criteria have been also transposed to a  
22 certain extent in national documents that were adopted by  
23 national authorities, because in the EU, you know we have  
24 the European level and we have GDPR, which is the  
25 European law. And then in each of the member states,

1 there is a national law that complements certain aspects  
2 of GDPR, and there's a data protection authority, which  
3 is an independent authority, that needs to adopt certain  
4 documents and is in charge of enforcement. One of the  
5 requirements of GDPR, as I said before, is for these  
6 authorities to adopt lists of cases for which a DPIA is  
7 required.

8       So what they've done is they've taken these  
9 criteria. Most of the time, they produce the lists.  
10 They sent this list for an opinion to DDPB and DDPB  
11 checked whether or not the items that were included on  
12 the list were making sense and were harmonized with what  
13 was done in the other member states. So EDPB adopted  
14 opinions, sent this back to the national authorities, and  
15 on that basis they published each of them -- in each  
16 member state, the authorities published their national  
17 list.

18       In a nutshell and if you want to have the helicopter  
19 view and on the stand when to do the DPIA, I think that  
20 the nine criteria that you have in the guidelines are  
21 very good guidance on which to rely on to -- and when two  
22 of these criteria are met, it's interesting for a  
23 controller to think twice before implementing its  
24 processing operations and make sure that they have the  
25 appropriate safeguards implemented in the system.

1           There's another list, which is optional in GDPR,  
2 which is the list of processing operations that are  
3 exempt from doing a DPIA. Now, this is interesting  
4 because it can -- you can either think about including in  
5 this processings that will never be high risk, of course,  
6 but you can also have cases where it's a processing  
7 operation that is very generic and for which the exercise  
8 of conducting the DPIA has been done already and if you  
9 implement the processing operation in the way that is  
10 described in the framework and using the safeguards that  
11 have been identified in this kind of generic DPIA, then  
12 you can be assured that the processing will not be high  
13 risk. So it's really -- we really have these two types  
14 of lists in the law. The compulsory list is required  
15 from the national authorities, and the exemption list is  
16 optional.

17           On this slide I'm trying to show you all the  
18 documents that can be relevant for you when you think  
19 about exercises that are similar to DPIA's as described  
20 in GDPR. So there's GDPR, of course, which I mentioned  
21 before, article 35 and article 36; there's EDPB  
22 guidelines that I have mentioned already. If you go to  
23 certain member states, some member states' authorities  
24 have also issued some guidance, and as explained in the  
25 introduction before, I worked many years at the CNIL,

1 which is the Commission Nationale de l'Informatique et  
2 des Libertés, the French Data Protection Authority, and  
3 we have -- we had there long history of working on  
4 privacy risk management. Back in 2012, we had done some  
5 privacy risk management guides that were published in  
6 French and in English, and they were revised and enhanced  
7 in 2018 to match the requirements of GDPR when GDPR  
8 became applicable.

9       So you have three guides there that you can find on  
10 the CNIL websites. I don't know if you can see -- this  
11 is the webpage of the CNIL, but there's a page that is  
12 dedicated to PIA. There's a description of the elements  
13 I mentioned before, so when to do DPIA and so on and so  
14 forth, and what you will see in the three guides is how  
15 to do DPIA. So there's a methodology that is described  
16 in the first guide, which is aligned and compatible with  
17 the risk assessment exercises that people know quite well  
18 and are acquainted with in the information security  
19 world. So in a way, what was done there is to transpose  
20 risk assessment for information security to the world of  
21 privacy. So thinking about not the impacts for the  
22 organization, but thinking about the impacts for the data  
23 subjects for the individuals. So this is what you have  
24 in the first guide, which is available in English. The  
25 second guide you will have a list of templates, which

1 explain -- it's a kind of framework to conduct the DPIA.  
2 And the last guide is a list of measures that you can  
3 implement in the system to mitigate the risks that you  
4 identify with the methodology.

5       What was done on top of that was to publish a number  
6 of use cases, so what we sometimes call the PIA  
7 frameworks, and we've done one for internet of things,  
8 for connected objects for instance. That is also  
9 available on the CNIL website, and this PIA framework  
10 basically is guidance provided by the authority that  
11 gives you the list of typical questions and typical  
12 answers that can be relevant in the specific sector.

13       One other thing that was done by the authority, and  
14 I'll come back to this in more detail, is to publish some  
15 software, because -- I used to say that it's very nice to  
16 do some guidance to publish some PDF, but if you print  
17 all the documents, this represents more or less 200  
18 pages, so it's very lengthy. It's not necessarily easy  
19 for people who are not used to risk assessment exercises  
20 and risk management exercises to know where to start, and  
21 therefore there was an exercise that was done at the CNIL  
22 to edit some software and publish some software, which  
23 you will find on the CNIL's website, and I'll come back  
24 to this on the next slide.

25       Last thing that was done was to work at ISO. ISO is



1 the International Sanitization Organization, and there's  
2 a working group there that is developing some standards  
3 in the field of privacy. And one of the standards that  
4 was developed is 29134, which is a standard on privacy  
5 impact assessment. So we -- at the CNIL, we were  
6 participating in the work of ISO, of the working group  
7 that ISO that is drafting those privacy standards, and we  
8 contributed to the 29134 to make sure that what is in the  
9 method and what is in the software that I mentioned  
10 before is compatible with the international standard,  
11 29134, that is now recognized at international level.

12 Just a few words on how to conduct a DPIA and what  
13 has to be included in the DPIA. This is explained in  
14 GDPR in article 35.7 and basically is what I said before;  
15 you have four parts in DPIA. I've described the  
16 processing, I evaluate necessity and proportionality of a  
17 processing, I identify the risks, and then I mitigate the  
18 risks. And so it's really accountability, an  
19 accountability process that is quite familiar to people  
20 working in the area of information security. This is the  
21 same thing with a bit more detail, and this is what is  
22 described in much more detail in the guides and in the  
23 software that I've been talking about just before.

24 Describing the context, which was the first step of the  
25 DPIA, means you describe the processing, you describe the

1 type of data that are going to be processed, you describe  
2 the supporting assets, so where your data is stored and  
3 how and so on and so forth. So it's a systematic  
4 description of the processing.

5       And there -- this again is a bit over simplistic,  
6 but it's just for you to understand the process. There's  
7 a legal assessment by lawyers; this is the last part of  
8 the slide. So you list the measures to protect the  
9 rights of the individual, and you check that this is in  
10 line with the requirements of GDPR, and we do this  
11 assessment of necessity and proportionality. And on the  
12 right side I've put technologists. You do this cyber  
13 security assessment exercise. So you check which  
14 controls you have implemented in the system and you check  
15 whether or not they're sufficient to make sure that your  
16 processing is not high risk anymore at the end.

17       And then there's a decision to be made by the  
18 organization. You produce a report and you assess  
19 whether or not the risks are going to be acceptable,  
20 whether you took them down to a level that is not high  
21 risk anymore. If it's not the case, you reiterate the  
22 process, you include more controls, and if it's  
23 impossible to go down to processing that is not high risk  
24 anymore, GDPR says you need to consult with the authority  
25 that will give you some guidance or tell you not to

1 implement the processing operation.

2       A few words now on the PIA software that was edited  
3 by CNIL. So this was a decision we made back in, I  
4 think, 2016 or 2017 to try to explain how to do DPIAs and  
5 help especially small organizations with DPIAs, because  
6 big organizations have CSOs, they have people who know  
7 this type of process, but small -- for small  
8 organizations, this can be a huge burden to do DPIAs. So  
9 this is the reason why there was this decision to make  
10 this tool at the CNIL and make it available.

11       This tool is software that you can download that is  
12 standalone on your computer or it can run on the  
13 software. It's -- it was initially released in two  
14 languages, French and English only, but it was published  
15 on GitHub, it's open source, and now it's available in  
16 more than 20 languages because people throughout the  
17 world found it interesting and contributed their language  
18 version. And basically what this tool is doing is that  
19 it walks you through the different processes that I've  
20 been describing before.

21       So you'll see it very briefly here, perhaps not very  
22 clear, but you have screens like the ones that are  
23 presented here on the right part of the slide, and it  
24 takes you step by step through the different steps of the  
25 PIA. You fill in the sections, you explain which

1 controls are in place, and on the right part of the  
2 screen, you have some information that is contextual,  
3 depending on the part that you are filling in to help you  
4 fill in the PIA and based on material that is contained  
5 in the guides that I was describing at the beginning of  
6 the presentation.

7       So it's work that was done also with a designer that  
8 was hired at the CNIL to try to make this as user  
9 friendly as possible, and the outcome basically is you  
10 have a software that can collect all different PIAs that  
11 you are conducting. It does the risk mapping, so  
12 explaining which are the high risks at the end of the  
13 risk assessment exercise. It represents the risks in the  
14 form of a map, and you can identify the controls to  
15 mitigate the risks and see how to take the risks down to  
16 an acceptable level. I forgot to mention that the risks  
17 are always described according to two dimensions,  
18 likelihood and severity. And again, in the guides you  
19 will find some hints on how to do this risk assessment  
20 and how to quantify the risk in terms of severity and  
21 likelihood.

22       At the end of the DPIA, what you do is this risk  
23 assessment -- risk, sorry, acceptance decision, and once  
24 the organization decides that the risks are mitigated in  
25 an appropriate way, you can proceed with the processing.

1 One recommendation, which is not a requirement of GDPR,  
2 is to publish the PIA or publish a part of the DPIA, also  
3 to show to the public that the risks have been tackled in  
4 an appropriate way and that the exercise has been  
5 conducted seriously by the organization.

6       So with this quick summary of my presentation, the  
7 PIA or DPIA in GDPR is an exercise that makes it possible  
8 for you to build and demonstrate compliance of processing  
9 operations. It's something that feeds into more general  
10 processes that can be implemented by companies like, you  
11 know, audits, the register of processing operations, risk  
12 management exercises, management of information security,  
13 and so on and so forth, and the interesting part is that  
14 organizations are quite familiar today with information  
15 security management, risk management, and privacy risk  
16 management, or data protection impact assessments, or  
17 exercises that are extremely similar to this. It's  
18 really the same logic; it's just that the focus is not  
19 only on dealing with and managing the risks for the  
20 organization, but also focusing on the risk for the  
21 individual.

22       Thank you very much for your attention. I just  
23 highlight that the slides that I showed you today, most  
24 of them have been adapted from material that was  
25 developed previously when I was at the CNIL, and this is

1 why there is this CNIL credit. Thank you very much, and  
2 I'm ready to answer your questions.

3 **MS. URBAN:** Gwendal LeGrand, thank you very much for  
4 that very helpful and relevant presentation. It's  
5 greatly appreciated. Thanks again to actually both of  
6 our first two speakers.

7 We are now going to take our first break, which is  
8 on the longer side, to accommodate our speakers'  
9 schedules. We'll reconvene at 11:30 a.m. Pacific Time  
10 for our next presentations. Please feel free to leave  
11 your video or teleconference open or to log back -- log  
12 out now and just log back in at 11:30, and we will look  
13 forward to seeing you then. Thank you.

14 (Whereupon, a recess was held)

15 **MS. URBAN:** Thank you. Mr. Gourley, are we ready to  
16 return to the meeting?

17 **MR. GOURLEY:** Yes, Chairperson Urban, we are ready.

18 **MS. URBAN:** Thank you very much, Mr. Gourley.

19 Welcome back, everyone, to the California Privacy  
20 Protection Agency's March 2022 pre-rulemaking  
21 informational sessions. I would like to remind everyone  
22 that we are recording this meeting. If you're just  
23 joining us, we are listening to a series of presentations  
24 under agenda item number 5, Informational Presentations  
25 Continued: Overview of Risk Assessments and Consumer

1 Rights with Regards to Automated Decision-making. We  
2 have three more presentations today, and then we will  
3 finish the day with public comment. Excuse me. my  
4 apologies. I'll remind everyone of how to engage in  
5 public comment when we get to that part of the day, and  
6 please note, we may also take a short break at some  
7 point. It won't be probably as long as the break that we  
8 just had.

9 All right. We will now continue on with our first  
10 set of informational presentations. If you'd like to  
11 note the place on the agenda, we are on item -- agenda  
12 item number 5, part c, cyber security audits. And if  
13 Professor Hoofnagle is ready --

14 Good morning, Professor Hoofnagle.

15 I'm delighted to introduce our speaker on the topic  
16 of cyber security audits, Professor Chris J. Hoofnagle of  
17 the University of California-Berkeley. Professor  
18 Hoofnagle is professor of law and residence at the  
19 University of California Berkeley's School of Law, where  
20 he teaches cyber security, programming for lawyers, and  
21 torts. He is affiliated faculty with the Simons  
22 Institute for the Theory of Computing, a professor of  
23 practice in the school of information, and the faculty  
24 director of the Center for Long-Term Cyber Security. An  
25 elected member of the American Law Institute, Professor

1 Hoofnagle is of counsel to Gunderson Dettmer, LLP, a firm  
2 in Silicon Valley and serves on boards for Constella  
3 Intelligence and Palantir Technologies. Professor  
4 Hoofnagle is a prolific and far-eyed author in the areas  
5 of privacy, cyber security, data protection, consumer  
6 rights, and emerging technologies. His recent books  
7 include In Law and Policy for the Quantum Age with Simson  
8 Garfinkel and Federal Trade Commission Privacy Law and  
9 Policy.

10 I know from having Professor Hoofnagle as a  
11 colleague at UC Berkeley that he is an extremely  
12 innovative thinker and a dedicated and innovative  
13 teacher. Professor Hoofnagle holds a BA and a JD from  
14 the University of Georgia, and we are delighted to have  
15 him here today.

16 Professor Hoofnagle, please take it away.

17 **MR. HOOFNAGLE:** Thank you, Professor Urban. I'm  
18 delighted to have this opportunity to present for the  
19 agency. I'm going to share my screen and make sure this  
20 is in order. So let me just ask: Do you have the full  
21 slide?

22 **MS. URBAN:** We do. We have the presenter view.

23 **MR. HOOFNAGLE:** Okay, let's try that.

24 **MS. URBAN:** Now we just have the full slide.

25 **MR. HOOFNAGLE:** Okay, great. Wonderful. So I'm



1 just working on my environment here. Let's see if that  
2 works. Okay, great. Thank you for having me today.

3 This high level presentation makes four points for  
4 you to consider as regulators in the security space.  
5 Some of you will already be familiar with these ideas,  
6 but I'm going to stay at a relatively high level given  
7 the time constraints and the complexity of security  
8 regulation. Remember security is a process. It's never  
9 completely achieved. Today I'm going to talk about four  
10 dynamics in that process, four dynamics that I think you  
11 will see as regulators in the security space.

12 The first is that familiarity with the terms of art  
13 used in security is important because security terms have  
14 counterintuitive meanings in practice. Second, I'm going  
15 to revisit the CCPA's terminal policy goals, and I do  
16 this to warn you that instrumental activity surrounding  
17 security can overshadow these goals. Third, I'm going to  
18 explain how security frameworks are highly congruent,  
19 meaning that at the highest level, there is consensus  
20 about what good security hygiene is nowadays. And then  
21 fourth and finally, I'm going to explain that there are  
22 many policy options for implementing security frameworks.  
23 Let me start with -- yeah, here we go -- terms of art in  
24 security, three confusing distinctions, and it's  
25 important that you're familiar with.

1           First, it's important to know that there's a  
2 difference between audits and assessments. Audits are  
3 examinations against an externally defined standard.  
4 These standards are often objective in the sense that  
5 they have a pass/fail basis. So for instance, if there  
6 are less than two millimeters of tread on your tires, you  
7 probably need new tires.

8           Assessments are different than audits in two  
9 critical ways. First, in an assessment, the client  
10 company gets to define what the goal is. The company can  
11 say, look at my tires, but even if they're worn, we have  
12 other ways of keeping the car safe, so I can still meet  
13 my goal even if my treads aren't more than 2 millimeters  
14 deep. Maybe the car is only operated in a warm climate,  
15 so it doesn't matter as much how deep the treads are.

16           The second difference is that in an assessment, the  
17 examiner is free to draw from a wide range of evidence to  
18 develop an opinion of compliance with that goal. Let me  
19 emphasize: It's an opinion; it's not a straight up or  
20 down. Perhaps the examiner, returning to the tire  
21 example, says you pass the tire test even though your  
22 tires are worn because you tend to drive slowly or  
23 because you never drive in the snow and rain.

24           Critically, most privacy and security evaluations  
25 are assessments, not audits. This means that the

1 independence and ethical standards of evaluators are key.  
2 At the Federal Trade Commission, for instance, the agency  
3 has started prescreening evaluators to ensure that they  
4 have a sufficient reputation in the field. If you ask a  
5 company for their security assessment, they may respond  
6 with a one-page-long opinion letter from that evaluator.  
7 So it's important to anticipate that outcome and not just  
8 ask for the assessment, but to ask for the underlying  
9 evidence that supports the opinion, the final opinion  
10 made by that evaluator.

11       There are also important differences between the  
12 term security incident and security breach, and apologies  
13 if this is too basic, but it -- there's an important  
14 policy point here. A security incident is any event that  
15 imperils confidentiality, integrity, or availability of  
16 information. For instance, if logs indicate that someone  
17 might have gained access to an account without  
18 authorization, that is a security incident.

19       Security breaches, on the other hand, are legal  
20 events. A security breach is the determination that an  
21 incident requires notice. So for instance, if that log,  
22 upon investigation, leads to a finding that covered  
23 information was accessed by some outside person, notice  
24 probably has to be given to the user. Network and  
25 software engineers will be the ones who identify and

1 diagnose security incidents, whereas the lawyers are in  
2 command of so-called security breaches.

3       What this means for you is that you will hear a  
4 different story about security if your evidence  
5 collection comes from the technical people than if it  
6 comes from the lawyers. The technical people are going  
7 to see more events, they're going to see more threats,  
8 and they're going to see events that did not lead to  
9 notice even when there's problems with  
10 confidentiality -- data confidentiality.

11       Finally, I want to mention the last term of art  
12 here. The word "accountable" has a strange meaning in  
13 privacy land. That is many in the industry use the word  
14 "accountability" to mean that they are able to make an  
15 accounting, as in we can tell you what happened to  
16 personal data. This is different than the use of  
17 accountability in everyday use, by which we typically  
18 mean that we are accountable for our actions through  
19 prosecution in the criminal justice system or through  
20 civil liability.

21       Let me turn quickly to this, the second point. A  
22 second major theme surrounds our terminal goals in the  
23 CCPA. You are familiar with these, and so I have just  
24 inserted them here on this slide. Let me emphasize that  
25 security is broadly defined in your policy goals. It's

1 the object of security is personal information, not just  
2 sensitive information and not just information that is  
3 somehow economically valuable, but rather all personal  
4 information. And the threat to be protected against is  
5 security incidents, not a narrower concept of security  
6 breach.

7       Why this matters, you heard a bit about this earlier  
8 today from Professor LeGrand, who talked about risks.  
9 The reason why it matters is that our concepts  
10 surrounding security can diverge. Your agency is charged  
11 with protecting a value, the right to privacy.  
12 Companies, however, will define this value through the  
13 lens of risk and use controls to manage that risk. In so  
14 doing, companies are likely to treat the controls they  
15 implement as the terminal goal rather than the policy  
16 aims of the CCPA.

17       I want to use the opportunity to talk a bit about  
18 policy goals and visions for security that could emerge  
19 from your agency. Security today is like the automobiles  
20 of the 1960s. We have powerful and awesome cars that  
21 gave us lots of utility in the 1960s, but they also  
22 ignored safety, and the industry blamed accidents on  
23 drivers. Since then, we have implemented technologies  
24 like the seatbelt to mitigate harm and advances like  
25 traction control that helps us avoid accidents in the

1 first place.

2       What would it take to move computer security along  
3 in the same way that makes markets and regulation drive  
4 improvements and automobile safety? One might be  
5 improvements in situational awareness. So here on this  
6 matrix here, I can tell you where we are today. We are  
7 in the known known category. We know that there are a  
8 fantastic number of security breaches. What we don't  
9 know is how many of these breaches go unreported, and no  
10 one knows about undiscovered incidents and security  
11 vulnerabilities out there. So we can think about  
12 changing the knowledge model of our security vision to  
13 move out of this category of knowing about breaches to  
14 knowing about other things.

15       Let me get my slide to advance here. We could also  
16 reconceive of the liability model for breaches.  
17 Currently, we follow something that resembles a  
18 negligence model, where agencies such as the Federal  
19 Trade Commission examine corporate practices and bring  
20 cases when those practices indicate lack of due care.  
21 This means that a lot of agency resources are tied up  
22 with the investigation and the determination of  
23 wrongfulness. It also means that there are many breaches  
24 where there's no relief for the consumer. One could  
25 think of those as non-negligent breaches, if you will.

1           Now consider an alternative model that looks more  
2 like enterprise liability. In this vision we are less  
3 concerned about specific wrongful practices and more  
4 concerned about making consumers whole. This model asks  
5 businesses that benefit from collecting information to  
6 assume all the downsides when those businesses lose  
7 personal information. The agency could also move towards  
8 a maturity model, where your security goals shift over  
9 time as the security landscape matures. In fact, you  
10 could become a driver of security maturity.

11           So the agency could start with a simple goal of  
12 getting all institutions to evaluate security risks.  
13 Believe it or not, some institutions don't. But as we  
14 look over the horizon, we could imagine pushing companies  
15 to deepen their examination of risk, and in the 2030s  
16 maybe we could imagine a solution where businesses are  
17 wholly owning the risks they create instead of  
18 externalizing them onto the public.

19           The third topic I wanted to brief you on is the  
20 amount of high level harmony in security frameworks  
21 themselves. The most popular security framework is the  
22 NIST cyber security framework. It was created to  
23 encourage security in the critical infrastructure sector;  
24 however, its flexibility and universality has made NIST  
25 attractive to many different sectors. Let me explain

1 what we're looking at here. At the highest level, the  
2 NIST cyber security framework identifies five key  
3 functions for cyber security. This is an example of the  
4 identify security function. Identify includes the  
5 concept that in order to secure an enterprise, one needs  
6 to know all about the systems that comprise it.

7       Moving on, you'll see I have some arrows here, so  
8 that's the function arrow there. Let me move onto my  
9 next slide here. However, the categories and subcategory  
10 columns decompose the high level identification function  
11 into more specific steps, but please keep in mind that  
12 even the most simple step here is not simple, it's  
13 complex for even small or mid-size companies. Just  
14 imagine in your own personal life if you had to follow  
15 this recommendation, ID-AM-1, and inventory all the  
16 physical devices and systems in your household, just  
17 imagine how long that would take and how complex it would  
18 be, and if you zoom out and imagine well what would that  
19 mean to also do that function for software and what would  
20 it mean to do that in a small- or medium-sized business,  
21 these are not simple tasks.

22       Finally, let me call attention to this last column.  
23 This is what's known as the informative references  
24 column. This last column presents a huge takeaway for  
25 businesses. There's a great congruence among security



1 standards. So this idea that one should inventory  
2 systems is shared amongst all the major security  
3 standards, and this column shows those cross references.  
4 That might seem like a pedantic point, but in fact it's  
5 very important for businesses.

6       Businesses may be subject to several or even dozens  
7 of different security frameworks, thus they want to build  
8 processes that will satisfy as many standards as  
9 possible. This offers a lesson for the agency. If the  
10 CPPA decides to adopt a new security framework, think  
11 carefully about that because creating a new one creates a  
12 lot of headaches for industry, and it might be largely  
13 duplicative of existing security standards out there. I  
14 think the thing -- the challenge you have to think about  
15 is whether you would materially advance cyber security by  
16 creating a new standard or whether our cost benefit  
17 analysis would reveal that going with existing standards  
18 is good enough and lowers compliance burdens.

19       Finally, let me conclude with my fourth point.  
20 While there is a high level consensus now about the steps  
21 one should take to promote good security hygiene, the  
22 mechanisms for implementing and assuring those steps are  
23 taken are very different. Companies like the NIST  
24 framework because it's voluntary and because a company  
25 can choose from a broad menu of precautions. The risk

1 here with the NIST framework is choosing poorly. Other  
2 approaches command specific compliance objectives. For  
3 instance, the opposite approach to NIST is found in  
4 PCI-DSS. PCI-DSS, which is the standard required of all  
5 businesses that handle payment card data, is highly  
6 prescriptive. It tells you exactly what to do and how to  
7 do it.

8 Now, somewhere in the middle exists other  
9 approaches, such as process- and control-based  
10 approaches. Process-based systems are similar to NIST  
11 because fundamentally the company is in command of  
12 defining what the goal posts are and how to meet them,  
13 but a controls-based approach is somewhere in the middle.  
14 In a controls-based approach, the company gets to explain  
15 how it will reach goals, but some outside entity defines  
16 what those goals are. So an agency like CPPA could  
17 articulate a series of goals and give companies the  
18 flexibility to choose how they reach them. That would be  
19 the -- what a controls-based approach might look like.

20 In summary, the agency has a lot of tough choices  
21 ahead, a lot of complex choices, but what I urge you to  
22 do at this moment is to start by thinking through your  
23 policy goals, and don't lose sight of them.

24 Notifying people of breaches is not a good policy  
25 goal. It lacks vision. Imagine if the headlines ten

1 years from now are largely the same as those today.  
2 We're in a kind of spin cycle of learning about security  
3 inches -- incidents and receiving notices of them that, I  
4 think, would be a failure of vision. Instead, I urge you  
5 to consider a ten-year vision for where we want the  
6 security of Californians to be. The number of security  
7 breaches that occur will obviously be part of that  
8 vision, but I would hope that the agency's efforts could  
9 palpably promote trust in digital systems, reduce the  
10 number of incidents, reduce injury from those incidents,  
11 and require collectors of data to internalize the risks  
12 they create from collecting and using data. Thank you.

13 **MS. URBAN:** Thank you very much, Professor  
14 Hoffnagle, for that characteristically pellucid  
15 explanation and presentation to us.

16 I am now pleased to introduce our next speaker,  
17 Professor Andrews Selbst, who will be presenting on  
18 automated decision-making, the goals of explainability  
19 and transparency. Andrew Selbst is an assistant  
20 professor of law at the University of California-Los  
21 Angeles School of Law. Professor Selbst's research  
22 examines the relationship between law, technology, and  
23 society. Drawing on resources from computer science,  
24 critical theory, sociology, and science technology and  
25 policy -- excuse me, society, Professor Selbst seeks to

1 understand how the creation, use, and proliferation of  
2 different technologies can interact with existing legal  
3 regimes and how legal actors can most usefully anticipate  
4 or respond to the social effects of new technology.

5 In recent work, Professor Selbst has focused his  
6 research on the effects of machine learning and  
7 artificial intelligence on varied legal regimes,  
8 including discrimination, policing, credit regulation,  
9 data protection, and tort law.

10 Professor Selbst received his J.D. cum laude at the  
11 University of Michigan, an M engineering degree, a  
12 master's of engineering degree in electrical engineering  
13 and computer science from MIT, and SV degrees in physics  
14 and electrical science and engineering from MIT. Before  
15 law school, Professor Selbst designed integrated  
16 circuits.

17 Welcome. We are delighted to have you here,  
18 Professor, and I will turn it over to you.

19 **MR. SELBST:** All right. Thank you so much. Let me  
20 share my slides here. Can everyone see that?

21 **MS. URBAN:** Absolutely. That looks great.

22 **MR. SELBST:** Okay, great. Thanks so much to the CEA  
23 for inviting me to give this talk today. I'm going to  
24 talk about automated decision-making and the goals of  
25 explanation and transparency in the policy responses to

1 automated decision-making. Often when you hear about  
2 explanation and transparency, particularly with respect  
3 to algorithmic fairness and justice, you think about  
4 things like accountability and the rule of law, right,  
5 accountability meaning people should be held -- to  
6 account for certain kinds of decisions. The rule of law,  
7 thinking of this big idea that decisions should somehow  
8 be justified or explainable. Both of those concepts are  
9 pretty vague, and explanations and transparency have a  
10 lot of different overlapping meanings in this context,  
11 and so I want to break down those different meanings.

12       So today I want to talk about who explanations are  
13 for; what the explanations are for; what they're trying  
14 to accomplish, which will depend on who they're for; what  
15 the different kinds of explanations and transparency are  
16 in the algorithmic context; and some specific issues that  
17 explanations can address.

18       So let's start with who explanations are for. There  
19 are roughly four categories of people who need  
20 explanations and transparency into algorithmic design.  
21 The first is developers. This is just basic  
22 documentation that's common to any engineering  
23 discipline. Developers require explanations,  
24 documentation, in order to -- as part of their  
25 development process. So in order to do debugging, they

1 need to understand, you know, what the program is  
2 accomplishing. And then there's sort of internal  
3 organizational tasks. Maybe someone gets hired and needs  
4 to pick up a project from someone that left, or teams  
5 need to coordinate together.

6       Again, in most engineering disciplines, this is  
7 fairly standard. I get the sense that in computer  
8 science, this is still actually developing in the  
9 algorithmic context. Particularly when it comes to  
10 discussions of the field of interpretability, most of  
11 that work has been geared towards developers themselves.  
12 I think this is a relevant separate category, and I want  
13 to get into that more when we talk about the types of  
14 explanations, but not -- but this is all focused on  
15 developers, whereas I think regulators should be focused  
16 more on the effects that sort of are outward looking  
17 rather than inward looking.

18       So the other three sets of people that explanations  
19 are for, I've divided into consumers and regulators,  
20 where consumers are both users of algorithmic systems and  
21 affected non-users of algorithmic systems. I separate  
22 those because consumer in the context of the CPRA refers  
23 to any natural person, right? So we're all consumers,  
24 but users of these systems have very different needs than  
25 non-users at different times. And, of course, regulators

1 are going to need transparency and explanations of what's  
2 going on in order to do their jobs.

3       So what do the explanations accomplish? Well,  
4 again, this is going to be dependent on who the  
5 particular explanations are aimed at. So for developers,  
6 it's -- again, it's internal. It's documentation for  
7 debugging, for coordination, for transitions during  
8 turnover, or even without turnover, right? Maybe  
9 somebody developed something and comes back to it three  
10 years later. This is just basic code documentation,  
11 right, that every programmer learns day one.

12       There's an entire field of interpretability, and  
13 this is where the understanding of the developer is sort  
14 of internal looking explanation becomes important.  
15 Interpretability is a design sort of technique or ex-post  
16 explanation technique developed by computer scientists  
17 primarily for the purpose of understanding and debugging  
18 their own algorithms. So it is -- it's almost a trope at  
19 this point to say that machine learning algorithms can be  
20 so complex, so hard to understand that even the  
21 programmers that come up with them can't understand the  
22 models. And especially for things like the neural nets,  
23 that's definitely true, but you can have the whole point  
24 of machine learning in some sense as differentiated from  
25 something that can be hand coded is that it comes up with

1 models so complex that it's very difficult even for the  
2 developers to hold them in their mind.

3       And so developers came up with different techniques,  
4 programming them in a certain way that uses a reduced  
5 number of variables or sort of ex-post interpretability  
6 mechanisms that allow them to get a better handle on even  
7 what's going on in the algorithm. A few years ago,  
8 interpretability and explainable AI were very commonly  
9 discussed as possible sort of regulatory -- avenues of  
10 regulatory pursuit to try to get at this sort of rule of  
11 law accountability idea, but it's kind of a not a great  
12 match in a way that I'll explain though in a minute,  
13 because -- in large part because interpretability is  
14 really inward looking. It's developed for developers,  
15 rather than for regulatory effects, so functionally they  
16 want validation and more debugging from interpretability.

17       For consumers, right, the kinds of explanations they  
18 want for users are making sure they understand what  
19 they're using and how it works. All right. So someone  
20 buys an algorithmic system and wants to integrate it into  
21 their employment process, their loan process, their  
22 Medicaid allocation, right, they need to understand what  
23 it is they're doing. This can be from a consumer  
24 protection standpoint, right. Did they even get what  
25 they were buying, does it work. All right. It's a



1 surprising amount of algorithmic systems on the market  
2 that just don't do what they say they do, and so there  
3 are consumer protection issues here.

4       There's also liability issues, right. They want to  
5 make sure that in an ideal case, right, they're not  
6 discriminating or, in a government case, that they can  
7 explain what they're doing to the people who they're  
8 making decisions about, again, with Medicaid allocations  
9 or other kinds of benefits, unemployment benefits. Are  
10 they going to be subject to challenge as government  
11 actors or private actors? So this is the kind of  
12 interests that users have in transparency in  
13 understanding their system.

14       Affected non-user consumers are probably the most  
15 commonly discussed people when it comes to explainability  
16 concerns and when we talk about algorithmic fairness and  
17 justice, right. So there are a couple different kinds of  
18 concerns that non-user consumers can be -- that can be  
19 alleviated by explanation. One is a question of  
20 procedural justice or the intrinsic value or explanation,  
21 right. It's a dignitarian concern. There's something  
22 just about being subject to decisions without ever being  
23 told what the basis of those decisions are that sort of  
24 strips us of dignity. This is the reason Kafka's The  
25 Trial is such a -- is a horror piece, right? It's the

1 horror of faceless bureaucracy that has no explanation.

2 Now, this is very different from the idea of  
3 contestability, but it's still contained within the idea  
4 of due process, right? Part of due process is a  
5 dignitarian concern, a simple respect for humanity  
6 interacting with their government, right? They need some  
7 sort of explanation. The same is true on the private  
8 side. It's just a dignity question.

9 Separately, there is the question of did this  
10 decision -- was this made correctly. Was this made in a  
11 justifiable way, right? So this is the concern of  
12 some -- usually what is referred to as due process,  
13 contestability falls in this category, and contestability  
14 is something that my co-panelists Professor Kaminski and  
15 Chairperson Urban have written about, can probably speak  
16 about more.

17 And the last point, right, is the possibility of  
18 enabling future success. So a lot of the times, things  
19 like adverse action notices for credit denials that are  
20 required under the Equal Credit Opportunities Act are  
21 there to say that you were denied a loan because you did  
22 X and Y or didn't do X and Y. You didn't make enough  
23 money; you changed your job too recently. The idea of  
24 those could be an intrinsic value question, but often  
25 it's seen as a way to allow consumers to adapt their

1 behavior to the things -- the rules that are governing  
2 their lives, right, to enable future success so that in  
3 the future they can get a loan to enable consumer choice  
4 and action. And so these are all very different reasons  
5 that explanations to consumers can be useful.

6 Finally, for regulators, anything needed for  
7 compliance and oversight. This is to make sure that the  
8 algorithmic systems are functional, right, to test for  
9 any sort of social and legal impacts based on whatever  
10 rules are created. So if, for example, there is a rule  
11 that creators or users of algorithmic systems have to  
12 explain something to consumers in the transparency  
13 regimes that I just discussed, then the regulators might  
14 come in to say, hey, are you setting up this rule to give  
15 the right kind of explanation. It turns out that you can  
16 have different kinds of explanations for the same  
17 phenomenon and you can justify any number of them. So  
18 you can be denied credit, again, for either, you know,  
19 too frequent job changes, or you don't make enough money,  
20 and there might be good reasons to do one or the other.  
21 Maybe if you make only a little bit more money you would  
22 have tripped the threshold to get credit, and so the  
23 justification for telling you to make -- telling the  
24 consumer to make a little bit more money, that's the  
25 thing that takes the smallest change in order for them to

1 get credit in the first time. That's a way -- or the  
2 next time, rather.

3       That's a way to explain something that is  
4 justifiable, but another one might be what makes up the  
5 bulk of the decision. Even if it's harder to change,  
6 right, if it's about respect for the decision and for the  
7 rationale, then maybe you say, hey, you change jobs too  
8 frequently, you look like a bad credit risk as a result,  
9 but that's not a way you can -- that a consumer can  
10 really respond except by staying in the same job for a  
11 long time. So what the justification is for a future  
12 explanation is something that itself needs to be  
13 justified, and that won't be explained to a consumer, but  
14 perhaps a regulator would be interested. Those kinds of  
15 behind-the-scenes questions about how decisions get made,  
16 including decisions about how to explain things, would be  
17 for regulators.

18       And finally, future policy learning. So I'm going  
19 to talk more about impact assessments. But the idea is  
20 algorithmic systems get tested, come with certain failure  
21 modes that -- or certain failure modes will be  
22 discovered, and we don't necessarily all know what those  
23 are and they won't be made public, but in order to  
24 understand how to regulate in the future, regulators need  
25 access to this kind of testing, this kind of

1 understanding, about what's going on internally in these  
2 systems, the decisions that were made, the decisions that  
3 weren't made, and why in order to understand better  
4 how -- what problems are likely to come up in the future  
5 and make regulations that are just not, you know,  
6 nail/hammer situations, where it's just, you know, do the  
7 same thing everywhere, but actually smart, tailored  
8 regulations based on realistic failure modes.

9       So those are the kinds of -- the goals of  
10 transparency for different actors.

11       Now, I want to talk about a bunch of different kinds  
12 of explanations that -- and transparency that can be  
13 enacted, some of which go to different kinds of actors,  
14 right? So in general, I tend to think of these in terms  
15 of two different sets of explanations and transparency.  
16 The first is the focus on existing models. Again, maybe  
17 four years ago this was really big in the conversation of  
18 algorithmic fairness and justice. We were talking about  
19 model explanations, right. There's an existing  
20 predictive model, how do you explain how it works;  
21 outcome explanations -- you were denied credit, why were  
22 you denied credit -- and interactive explanations where a  
23 consumer can go and sort of play with a model and get an  
24 intuitive sense about how things are moving within the  
25 model.

1           The issue with these explanations is fundamentally  
2 they take the existing model as a given and therefore put  
3 the onus for change, for challenge, on the consumer  
4 themselves, which is -- who are often powerless or  
5 relatively powerless. And so more there's been a move  
6 towards a focus on model development, right. Model  
7 development includes documentation, impact assessments,  
8 audits; it's really more of a focus on the people who are  
9 creating, implementing, and using these algorithms. Both  
10 have their place, but I believe today that the regulatory  
11 focus should be more on the people who are creating and  
12 using the algorithms, because again, they have more power  
13 to change the reality on the ground than individual  
14 consumers do.

15           So let's go through it. Explanations of existing  
16 models, right. So the first big one is outcome  
17 explanations. They're targeted at affected consumers.  
18 They can enable future actions or appeals. Again, you  
19 were denied credit; here's why, right. Hopefully they  
20 can tell you enough to know should you appeal this  
21 decision. Was it made illegally. If you get an  
22 explanation of the law or if you can take your  
23 explanation of the decision to a lawyer who knows the  
24 law, right, you can get an answer on whether it was  
25 illegally made and you have a case for appeal.

1           They can be dignity enhancing. Remember, these are  
2 the ones -- these are the explanations that go to people  
3 who have decisions made about them, and so they are  
4 necessary just for basic dignity. But they can be  
5 often -- they can be underspecified in a way I discussed  
6 before, and they can be easily manipulated, right. If we  
7 have a weaker explanation-focused regime that does not  
8 dictate exactly how explanations are given or gives a lot  
9 of leeway, you can get somewhat meaningless explanations.  
10 So in the case of the Fair Credit Reporting Act, the  
11 adverse action notice regime, there's a lot of  
12 explanations, reason codes, given that don't help, right.  
13 Some of them say, hey, there's no existing credit file,  
14 which doesn't say much about the credit determination at  
15 all, but it's a very useful actionable item. Some say,  
16 you know, length of time at job, which doesn't even say  
17 whether it's too long or too short, and it doesn't tell  
18 you how long -- it's not actionable and doesn't really  
19 say much. The reason codes given in that regulation,  
20 regulation B, are meant to be a sample, but are often  
21 used wholesale. So we have to really think about, if we  
22 focus on outcome explanations, what specific goals we are  
23 meaning to achieve and lay those out in a very concrete  
24 way.

25           Model explanations take an existing model and try to

1 simplify it in a way that's easier to describe, right.  
2 So either you take a localized outcome, right, so  
3 consumers who kind of look like you, what is different.  
4 So if you vary your income a little bit and it's -- the  
5 model is less sensitive to that than how long you've been  
6 at your job, then you understand more about the model,  
7 right. It's more sensitive to one variable versus  
8 another.

9       You might be able to have a picture of how the model  
10 works in a localized way, but you can also have something  
11 where it simplifies sort of a deep neural nets into a  
12 decision tree, right. That's clearly simpler, but those  
13 are often still too complicated to understand in any  
14 meaningful way. A person can't hold them all in their  
15 mind. So model explanations, right, because a decision  
16 tree with a thousand branches is not something that a  
17 person can understand enough to act on. They can trace  
18 it on a chart and literally follow the answers, but you  
19 can't explain it in a way that's helpful to consumers.  
20 And so model explanations are often in the category more  
21 of interpretability that is geared towards developers in  
22 order to help them sort of debug.

23       And the last is interactive explanations. You see  
24 this on things like [creditkarma.com](http://creditkarma.com) where you have a  
25 drop-down menu. If you increase your employment by



1 X -- or your salary by X amount, if you pay down certain  
2 amounts of debts, what will happen to your credit score,  
3 right, things like that. Interactive models where people  
4 can get more of an intuitive feel. This is helpful. You  
5 don't actually need explanations to be literal, you know,  
6 language-based explanations, and intuitive feel is  
7 helpful, but it can be very misleading, especially when  
8 models are non-monotonic or not even continuous, right.  
9 You can end up with consumer's sort of playing around  
10 with an explanation here and then it drops off a cliff in  
11 an area they didn't have access to. They can get a very  
12 misleading picture of how a model works. And so all of  
13 these explanations of existing models, to the extent they  
14 should be useful to a regulatory regime, put all the onus  
15 on the consumer in a way that can be somewhat empowering,  
16 but also quite misleading at times, which is why I say  
17 that the focus is better on -- is better put on  
18 explanation of the model development process.

19       What I will say is current law, where it requires  
20 explanations, is more focused on existing models, right.  
21 So I've mentioned adverse action notices a couple of  
22 times. There's also the GPR, which again, Professor  
23 Kaminski will speak about a lot more. But here, I'll say  
24 that article 22 requires safeguards for automated  
25 processing, including human intervention and

1 contestation. The only way you get contestation is an  
2 explanation that enables you to know when to contest  
3 something, right. And similarly, article 13 to 15 of the  
4 GPR, each have a subsection that requires meaningful  
5 information about the logic involved in automated  
6 processing.

7       And again, what does meaningful mean? Well, this  
8 has not been litigated. It's not -- it's not obvious  
9 what meaningful should mean. I believe it's functional.  
10 I believe meaningful should imply the ability to enforce  
11 your data subject's rights under data protection law or  
12 human rights law. So it means, again, contestability on  
13 the basis of discrimination, on the basis of illegal  
14 processing of data, things like that.

15       To the extent we should have consumer-focused  
16 explanations, I think a functional -- functional test  
17 that asks the degree to which the explanation helps the  
18 consumer enforce other existing rights is probably the  
19 best approach.

20       Finally, we get to explanations of model  
21 development. And here I have, again, three different  
22 kinds. One is documentation, and then impact assessments  
23 and audits. Again, documentation is just basic, right?  
24 Basic standard practice in engineering. It allows  
25 coordinating; it allows handoff. One thing documentation

1 should do is describe the limitations of the product, the  
2 failure modes, the testing that's been done.

3       One of the big models that's floating around out  
4 there in the -- the computer science world is drawn from  
5 electrical engineering. It's called data sheets. And  
6 here I -- this -- I'm partial to it because of my history  
7 as an integrated circuit designer. Whenever you buy a  
8 chip, it says, it works under certain conditions. If it  
9 gets too hot, the response curve falls off. If it -- you  
10 know, if it -- if the signal is too fast, you're not  
11 gonna get a good response, right? This is not to say  
12 that the chip doesn't work. It just says, here are the  
13 conditions under which it works. That's the idea for  
14 data sheets, right?

15       Similarly for this. If you train a model, if you  
16 use -- if you give a certain data set, you should say,  
17 hey, here are the conditions we've tested, here are the  
18 conditions under which it works. We've used this --  
19 we've trained it with a data set that this demographic  
20 shape. If you try to deploy it on a different one, it's  
21 not going to work. But it's still saying the product  
22 works, but it specifies the sort of sphere in which the  
23 product works.

24       There are moves within the sort of algorithmic space  
25 to make this much more common, to -- to make benchmarking

1 decisions and -- and -- and documentation just standard  
2 practice, and those absolutely should be, which, from a  
3 regulatory side, actually works very well with things  
4 like impact -- impact assessments and audits.

5       So impact assessments, the idea of them is to  
6 document important decisions before they're made, right.  
7 To predict social impacts. So I'm -- early in the  
8 process, I'm thinking about developing algorithmic -- the  
9 system. I want to figure out, what are its limits, what  
10 kinds of future social impacts will it have, do real,  
11 rigorous research, and then figure out how to mitigate  
12 these before even going -- going forward with the  
13 development.

14       The earlier in a process that you can count social  
15 values and embed social values, the better for the  
16 ultimate social harms, or mitigating the social harms of  
17 a product. This arguably does exist already in impact  
18 assessment regime in the GDPR, right? In Europe they  
19 have Article 35; it requires data protection impact  
20 assessments whenever you have high risk processing. And  
21 that could be considered an algorithmic impact  
22 assessment. Similarly, right now, there's pending  
23 federal legislation, the Algorithmic Accountability Act  
24 of 2022. It talks about impact assessments. Canada has  
25 implemented a version of impact assessments. And so this

1 is coming globally, right? This is becoming a response  
2 that is common -- or commonly proposed and, I think,  
3 incredibly important. The big thing about this is it's  
4 not necessarily about explaining existing models but  
5 about explaining the decisions that went into them,  
6 right, what data sets were and were not used to train the  
7 models and why, what were the goals, the optimization  
8 criterion, and why were those chosen?

9       One of the major benefits of it, again, is an agency  
10 like the CPPA can receive a whole lot of these impact  
11 assessments, and then over a year or so, do some analysis  
12 and see what works, what doesn't, what causes problems,  
13 and learn from them.

14       Similar to impact assessments are audits. There's a  
15 lot of disagreements about whether impact assessments or  
16 audits, like, where the two sort of differentiate from  
17 each other. I think a lot of people think of audits as  
18 similar to impact assessments. So audits can be internal  
19 audits. Often engineering firms will just say, hey,  
20 before this goes out, let's do a check. Let's make sure  
21 all these -- these harms -- potential harms are taken  
22 into account. They can be external, independent audits,  
23 right? I think in the legal space, we think of external  
24 audits as much more rigorous and important because it's  
25 not pure self-regulation. They can be mechanical, an

1 audit of the system, the -- or they can be regulatory,  
2 which is more an audit of the business practices. And so  
3 there's a -- audits are sort of an all-encompassing idea.  
4 I think the biggest difference in my mind between impact  
5 assessments and audits is impact assessment are bottom-  
6 up. They ask you to document your decisions, to say,  
7 hey, why did you do this? Audits are usually, as I  
8 understand them, top down.

9       They're saying, hey, these are the -- what we know  
10 are best practices. Did you do these things? They often  
11 turn into a checklist. But in order -- and a checklist  
12 is not ideal. But in order to even get there, we need to  
13 have a very good sense of what it is we're saying should  
14 be done. And I don't think we're necessarily there with  
15 algorithmic systems yet. We don't all agree on the  
16 different sort of standards for -- for harm that's  
17 tolerable or -- or what counts as discrimination. And so  
18 until -- I think the impact assessments are a way to get  
19 us to learn enough to maybe have a more rigorous audit  
20 regime that can focus on concrete things we know are  
21 harms and how to avoid them. But we do need some  
22 combination of the two. And again, because they're both  
23 focused on business practices, they can be much more  
24 useful than ex-post explanations.

25       Finally, in my last two minutes -- I don't know how

1 I'm doing on time, but I'll try to keep this last bit  
2 quick.

3 **MS. URBAN:** You are fine. Thank you.

4 **MR. SELBST:** Okay, great.

5 So where -- I want to focus on specific issues that  
6 documentation can address, right? And explanation -- and  
7 the truth is, right, explanation and transparency  
8 without -- for its own sake isn't particularly helpful.  
9 It needs to be tied into a sort of reform or  
10 accountability goal. And so we should keep in mind what  
11 the things are that we're trying to achieve with any  
12 transparency, any explanation regime that we are trying  
13 to implement.

14 So I probably don't have time to talk about all of  
15 these, but I want to talk first about the question of  
16 whether something works. Again, there -- there's a  
17 surprising amount of AI that's being put out under this  
18 sort of -- this hype umbrella of AI, that simply just  
19 doesn't do what it says on the tin. And transparency as  
20 to what people are thinking they're trying to do, and  
21 allowing people to test whether it works as it says, is  
22 just sort of basic, right? We've had that for every  
23 product that's ever been on the market since snake oil.  
24 And so that is a basic reason for transparency.

25 Another issue is divisions of responsibility. And

1 so to draw on a -- an analogy that I think is familiar to  
2 all of us, the question of cars turned out to be a very  
3 difficult one for tort law to address from a  
4 responsibility standpoint, right? So here you have  
5 automakers that are making cars, and users, drivers, that  
6 are driving them. And they'll get in accidents, right?  
7 And drivers can, you know, be sued in negligence when  
8 there is an accident. And it is either not their fault,  
9 because someone else caused the accident, or it is the  
10 driver's fault, because they were negligent.

11 And for a long time, manufacturers of auto vehicles  
12 tried to say, well, look, it's not our fault the car got  
13 in an accident, even though the passenger died, right?  
14 And the passenger might not -- maybe there weren't  
15 airbags, right? The passenger need not have been as  
16 injured as they were, or the driver. As documented by  
17 Professor Bryan Choi at Ohio State when he's talking  
18 about software, eventually tort law came up with this --  
19 or judges came up with this crashworthiness idea, which  
20 says, look, you, the auto manufacturers can't be totally  
21 off the hook, right? It's not an unknown thing that car  
22 crashes will happen. You don't know whether any  
23 individual car will crash or when, but you know for  
24 certain that car crashes will happen. And so you need to  
25 be responsible for that second level of harm, right? If



1 someone gets hurt worse in a car crash than they  
2 otherwise would have been, that should lead to  
3 responsibility for the manufacturer, as well as  
4 responsibility -- any blame that goes to the user.

5       So there's a question of divisions of  
6 responsibility. And in order to -- in order to know how  
7 responsibility is divided, they need to understand the  
8 kinds of testing, the kinds of expectations in the design  
9 of the product that were built in, right? Whose  
10 responsibility is what? What should the user be  
11 responsible for? Those questions can't be answered  
12 unless you have some visibility into questions of design.

13       The same is definitely true in algorithmic design,  
14 and artificial intelligence, right. If you imagine an  
15 employer that creates or hires a software developer to  
16 create an algorithm that discriminates, right, the degree  
17 to which they're in communication about how to solve the  
18 problem will tell us a lot about how to allocate  
19 responsibility between the two. The framework where the  
20 developer, like, cabined their problem, right, did they  
21 take the particular demographics of the training set  
22 versus the deployment set into account? Maybe that's a  
23 developer problem; maybe that's a -- a -- an employer  
24 problem. But we don't know unless we have transparency  
25 into those design decisions. And so it's really

1 important for divisions of responsibility between users,  
2 either affected users, right, if they have agency, users  
3 who are consumers, and developers.

4       Finally, in a paper called "Fairness and abstraction  
5 in socio-technical systems," I with several co-authors  
6 discussed several abstraction traps, which are common  
7 mistakes that developers are making when trying to create  
8 fair machine learning algorithms. I want to talk  
9 specifically about two of them. The others can be found  
10 in the paper. The five abstraction -- or the two I want  
11 to talk about are the portability trap and the formalism  
12 trap, because I think both are very, very common.

13       The portability trap is, again, this idea that you  
14 can train for one context and deploy to another. Maybe  
15 you train an algorithm in a medical context and deploy it  
16 in a -- in a prison, right? Or you train an algorithm in  
17 Tennessee and deploy it in New York City, right? The  
18 differences between those, right -- computer science is  
19 very focused on creating modules that are abstract and  
20 able to be redeployed elsewhere. That is -- it's an  
21 aesthetic sensibility. It's something you start with day  
22 one in computer science, learning about abstraction. But  
23 the problem with it is that a lot of algorithmic systems  
24 functionally are -- function based on database taken into  
25 account, which has a context. And when you strip it from

1 the context, you cannot guarantee any sort of fairness.  
2 And so again, in order to understand whether you're  
3 making this error, you need to have transparency into the  
4 sort of justifications for porting it from one to -- one  
5 context to another, or the kinds of mitigation you've  
6 got.

7       Formalism trap, here we talk about how a lot of fair  
8 ML systems are trying to describe discrimination as a  
9 sort of mathematical formula, which will inevitably cut  
10 out a lot of the nuance of what lawyers and philosophers  
11 and sociologists mean by discrimination. Sometimes it  
12 can work, but in order to make sure it works, you need to  
13 be very, very specific about your rationales for  
14 modelling -- for modelling discrimination in this  
15 particular way, in this particular context. And again,  
16 the decisions that go into building these systems need to  
17 be able to be evaluated.

18       So with all these abstraction traps, in fact, all  
19 these issues, right, they're all about algorithm design  
20 and the decisions that went into them. So what I would  
21 say is, as you think about the regulation, the focus  
22 should definitely be on questioning how algorithm systems  
23 are designed, how harms are evaluated, how they're  
24 mitigated, and eventually, whether they work if they are  
25 deployed. All right. Thank you very much.

1           **MS. URBAN:** Thank you very much, Professor Selbst.  
2 Again, that was very helpful and clear, and we really  
3 appreciate you doing this for us. So thank you.

4           I'm very pleased now to introduce our final speaker,  
5 Professor Margot Kaminski. Professor Kaminski is an  
6 associate professor at the University of Colorado Law  
7 School and the director of the privacy initiative at  
8 Silicon Flatirons at the University of Colorado. She  
9 specializes in the law of new technologies, focusing on  
10 information governance, privacy, and freedom of  
11 expression. Recently, her work has examined autonomous  
12 systems, including artificial intelligence, robots, and  
13 what we commonly know as drones. In 2018, Professor  
14 Kaminski conducted research on comparative data privacy  
15 law as a recipient of the Fulbright Schuman Innovation  
16 grant. Her academic work has been published or is  
17 forthcoming in Columbia law review, the UCLA law review,  
18 Minnesota law review, Boston University law review, and  
19 Southern California law review, among others.

20           Prior to joining Colorado Law, Professor Kaminski  
21 was an assistant professor at the Ohio State University  
22 Moritz College of Law and served for three years as the  
23 executive director of the information society project at  
24 Yale Law School, where she remains an affiliated fellow.  
25 She is a co-founder of the Media Freedom and Information

1 Access Clinic at Yale Law School. She served as a law  
2 clerk to the honorable Andrew Jay Kleinfeld in the Ninth  
3 Circuit Court of Appeals, and she holds a JD from Yale  
4 Law School and a BA from Harvard University.

5 Professor Kaminski, welcome, and the floor is yours.

6 **PROF. KAMINSKI:** Thank you so much. So give me one  
7 second here to share my screen. So I'm gonna be  
8 presenting today on automated decision-making, and some  
9 of what I'm going to say here is going to overlap with  
10 what Professor Selbst introduced to us. But my  
11 perspective is a distinctly comparative one. And what  
12 I'm hoping to do with this is to make clear to you the  
13 influence of the general data protection regulation from  
14 the EU on some of the language that is in the CPRA, and  
15 now CCPA, and also to talk a little bit about the model  
16 that it creates and what problems that model contains and  
17 what benefits.

18 So my presentation will consist of three parts.  
19 First, I'm going to discuss the actual law and provide  
20 the legal background for this comparative perspective,  
21 for those of you who might be less well versed in the  
22 GDPR. Then I'm going to talk about comparisons between  
23 the GDPR's model and several other models that are out  
24 there, primarily in the United States. And finally, I'm  
25 gonna provide some normative takeaways. So with these

1 takeaways, I'll be drawing on the legal background I've  
2 provided in parts 1 and 2, and also on some other  
3 comparative work that I've been doing. And some of this  
4 will definitely resonate, again, with what we've heard  
5 from Professor Selbst.

6       So in a nutshell, again, for those of you who might  
7 not be so familiar with it, the General Data Protection  
8 Regulation, which is the large-scale data privacy or data  
9 protection regulation in the European Union, consists in  
10 a nutshell -- this is probably the shortest presentation  
11 I'll ever give on the GDPR as a whole -- of two parts.  
12 There's an individual rights section, many of which are  
13 going to be familiar to you as reflected in the same  
14 individual rights in the CCPA. And then there's a  
15 section on data controller, which for our purposes really  
16 means company, though it also includes government  
17 entities in Europe.

18       Data controller obligations. This part, the second  
19 part, is largely missing from many US state privacy laws.  
20 And we'll see how, today, how some of the influence of  
21 the GDPR is making its way across the pond to data  
22 controller or company obligations.

23       The second thing to know about the GDPR, from a  
24 bird's eye view, is that it has a very specific  
25 governance style, which is gonna be relevant for my

1 discussion of impact assessment in particular. The  
2 governance style of the GDPR is that it consists of often  
3 vague tests with high -- tests with high level concepts,  
4 such as the concept of fairness or the concept of  
5 lawfulness or the concept of discrimination.

6 And then that text is delegated, in terms of its  
7 interpretability, to a number of different possible  
8 actors. Some of those actors are regulatory actors. So  
9 the European Data Protection Board issues guidance, which  
10 is not formal law, but certainly helps interpret what the  
11 text of the GDPR means. And some of those actors are  
12 nonregulatory actors, namely the companies that are doing  
13 the implementing of the GDPR on the ground.

14 So when you look at the text that I'm gonna talk  
15 about today, or you look at the text that Professor  
16 Selbst mentioned already in the access and notice  
17 portions of the GDPR, when you're asking, what does  
18 something mean, if there's not an answer from the  
19 European Data Protection Board or an answer from a court,  
20 the answer is, the company implementing the law is going  
21 to be deciding what that means.

22 So this is a largely collaborative, and deliberately  
23 so, method of regulation, which might be surprising to  
24 some US persons who look at the GDPR and think that it's  
25 a top-down regulatory control version of privacy. GDPR

1 also contains a number of very explicit collaborative  
2 compliance tools, such as certification and various sort  
3 of collaborative codes of conduct that can be created.  
4 But that collaborative governance is done in a very  
5 specific European context, which, as Chair Urban knows  
6 well, exists against the backdrop not only of huge  
7 regulatory fines but against a human right -- a right not  
8 only to privacy, but to data protection, which is  
9 interpreted by not really one but two human rights  
10 courts.

11       So where you have a vague term, and it's being  
12 interpreted by a company and application, the company's  
13 still bounded by the fact that a human rights court may  
14 step in at some point to specifically interpret the term  
15 and help regulators enforce it. GDPR, unlike a lot of  
16 the state laws that we've been seeing, has both private  
17 and public enforcement, although class actions are not an  
18 instrument that really exists in Europe. There's an  
19 attempt at sort of a joint action in the GDPR.

20       And additionally, as I said, it has these regulators  
21 who have been in place since long before the GDPR, who  
22 both provide guidance and often do the enforcing. Plus,  
23 the GDPR must be understood against the backdrop that  
24 many EU member states have had in places laws that have  
25 existed since the 1970s, and the regulatory



1 infrastructure for enforcing them has existed since  
2 similar times.

3       So turning to automated decision-making in the GDPR,  
4 the GDPR on the whole regulates the processing of  
5 personal data, wholly or partly by automated means, in  
6 addition to the processing of personal data in a filing  
7 system. That means that any time the data is  
8 processed -- personal data is processed by automated  
9 means, it's gonna be subjected to the whole of the GDPR.  
10 Additionally, and perhaps confusingly, for those of us  
11 who are sort of looking at it more myopically from this  
12 side of the pond, the GDPR also contains specific  
13 provisions on automated decision-making with significant  
14 effects.

15       So in my presentation on this first part of the  
16 actual legal bases for regulating ADM in the GDPR, I'm  
17 gonna start with these ADM specific provisions and then  
18 briefly point to several generally applicable provisions  
19 that are going to be relevant as well. Before I get into  
20 this, I just want to again really briefly talk about what  
21 the GDPR is aiming to do.

22       So I've identified this in a piece that's called,  
23 "Binary Governance", in which I talk about how this two-  
24 pronged system of individual rights combined with  
25 compliance infrastructure or governance aims at three

1 different goals with respect to automated decision-  
2 making. And again, this echoes with Professor Selbst's  
3 presentation.

4       The first goal is really an instrumental one. So  
5 the instrumental goals largely look at -- largely sound  
6 in the idea that we are trying to fix automated decision-  
7 making. We're trying to prevent errors; we're trying to  
8 get rid of discrimination; we're trying to watch out for  
9 places where the ADM might crash or produce incredibly  
10 unexpected results.

11       A second goal of regulating automated decision-  
12 making is a dignitary goal. And again, this is something  
13 that often gets characterized as being more European in  
14 nature, the idea being, we don't want to, you know, take  
15 away your name and give you a number or turn you into a  
16 data double and objectify you. However, there are  
17 certainly dignitary conceptions that echo in regulations  
18 in the United States. Professor Selbst mentioned, for  
19 example, the FCRA.

20       Third, and pretty significantly, the GDPR is  
21 concerned with lawfulness. It's concerned with  
22 accountability. And so when it's talking about data  
23 protection, it's not necessarily talking about the kind  
24 of privacy many of us think about when we think about  
25 being left alone. It's talking about power and

1 accountability and disparities and access to data and  
2 access to -- to decisions, and power over individuals  
3 through files that are held on them.

4       So justification really goes to this idea that the  
5 entity that has the power, the entity that's using the  
6 automated decision-making based on personal data, needs  
7 to both provide individualized explanations that justify  
8 its use and show that it's making socially normatively  
9 okay decisions. And additionally, the system as a whole  
10 needs to be justified as legitimate. We'll talk about  
11 more about that in a minute.

12       So going to the actual text of the law, the GDPR  
13 contains, what should be very familiar, a series of  
14 notice rights and access rights for individuals. The  
15 individual notice rights contain within them a right to  
16 notice about an automated decision with significant  
17 effects. These exist in Articles 13 and in Articles 14,  
18 one of which deals with gathering data directly from  
19 individuals and the other of which deals with gathering  
20 personal data from third parties.

21       The company or controller has an affirmative  
22 obligation to disclose not only the existence of  
23 automated decision-making, the fact that it exists, but  
24 also meaningful information about the logic involved.  
25 And there's your language from the CPRA. And

1 additionally, the significance and envisioned  
2 consequences of the processing for the data subject.  
3 Basically, why does it matter to you? Right, what's the  
4 consequence of this going to be.

5       As to timing, the timing when you're collecting data  
6 from an individual directly is supposed to be at the time  
7 that that data is collected. The timing when you are  
8 gathering data from a third party, under Article 14, is  
9 that it has to be within a reasonable amount of time,  
10 which, in the text, is supposed to be no longer than a  
11 month.

12       The second set of information rights around  
13 automated decision-making come from the GDPR's governing  
14 of individual access. It's the exact same language --  
15 which might have interesting implications, by the way,  
16 for how one interprets the phrase "meaningful  
17 information" about the logic involved. But in Article  
18 15, a person -- an individual requesting access to  
19 information from a company must be provided with  
20 meaningful information about the logic involved and the  
21 significance and envisaged consequences of the  
22 processing.

23       In terms of timing, the individual can ask for  
24 information easily and at reasonable intervals, and yes,  
25 may be charged for it, but only under certain

1 circumstances. This brings me to Article 22. So Article  
2 22 is probably one of the most discussed and least  
3 understood portions of the GDPR. It established what is,  
4 in effect, automated decision-making due process. That  
5 is, it gives individuals who are subject to automated  
6 decision-making with significant effects the ability to  
7 contest such decisions. The start of Article 22,  
8 however, does not look like due process. It looks like a  
9 ban. So it states that the data subject -- that's the  
10 individual -- shall have the right not to be subject to a  
11 decision based solely on automated processing which  
12 produces legal effects concerning him or her, or  
13 similarly significantly affects him or her.

14 This, interestingly, given all the focus on  
15 automated decision-making and accountability recently, is  
16 not at all a new right or set of rights. It is based on  
17 the language in the previous European Data Protection  
18 Directive, though it has some changes that, in my view,  
19 make protections of Article 22 broader, deeper, and  
20 stronger. That is, it applies to more types of  
21 processing, it creates more restrictions, and it's backed  
22 by more significant enforcement capabilities than its  
23 predecessor.

24 For example, the guidance from the European Data  
25 Protection Board suggests that the terms based solely on

1 automated processing does not leave out situations where  
2 a company adds a human in the loop solely to try to  
3 escape Article 22. So if you have automated decision-  
4 making and you put a human in it to try to get out of  
5 this -- these restrictions in -- or governance in this  
6 particular provision, you're not gonna be able to do  
7 that, at least under the guidance from the European Data  
8 Protection Board.

9       Second, and significantly, the guidance suggests  
10 that similarly significant eff -- effects can actually be  
11 quite broad. So one way to read this -- one previous way  
12 to read this provision is to say that legal effects are  
13 fairly narrow and include only things such as housing  
14 decisions or employment decisions. But the guidance from  
15 the European Data Protection Board suggests that things  
16 like manipulative advertising, when it's particularly  
17 egregious, could be covered by this as well.

18       Finally, the guidance establishes -- and this is  
19 actually important just in terms of the requirements and  
20 how many of them take effect on how many companies --  
21 that this is a ban and not opt-in. So a number of the  
22 member states that implemented the previous version of  
23 Article 22 from the European Data Protection Directive  
24 read it, or really implemented it, to be a right that  
25 individuals had to opt into, which meant that the

1 restrictions it places on companies only really took  
2 effect if a person opted into the right. The guidance  
3 here makes -- makes clear that that is not the case.

4       So we have this ban, right? We have this ban that  
5 says, don't use solely automated decision-making, which  
6 really can mean decision-making with people that's  
7 automated, that creates significant effects on  
8 individuals; don't use it, except the exceptions. And  
9 the exceptions actually end up being much of the rule.

10       So if an individual gives explicit consent to  
11 automated decision-making -- and what explicit consent  
12 is, is rather debatable, but it's considered to be even  
13 more heightened than the GDPR's already strong  
14 protections for consent -- if they consent, or if it's  
15 necessary for a contract, or if as has already happened,  
16 a member state creates a law that authorizes particular  
17 forms of automated decision-making, then a company can  
18 use -- or government agency can use automated decision-  
19 making with significant effects on an individual.

20       That's not the end of the story, though. So when  
21 they are using automated decision-making, they are then  
22 required to put in place what are called suitable  
23 measures or suitable safeguards. So a data controller  
24 must implement suitable measures to safeguard the data  
25 subject's rights and freedoms and legitimate interests.

1 So the -- the real meat of the GDPR's regulation of  
2 automated decision-making, or AI, is this question of  
3 what constitutes a suitable measure or a suitable  
4 safeguard. And remember, back in the beginning of this  
5 part of the presentation, I talked about how the GDPR  
6 really has these two prongs. One side is individual  
7 rights, and the other side is compliance, while on the  
8 face of it, Article 22 looks like it's all about  
9 individual rights. It looks like it's algorithmic due  
10 process.

11 But the actual content of Article 22, as interpreted  
12 through various instruments that accompany it, shows that  
13 it is significantly more than this. Within the text  
14 itself, the safeguards that are listed -- which are  
15 really -- it's an open list, not a closed list -- but  
16 these are mandatory -- include individual due process --  
17 that is, the right to obtain human intervention in a  
18 decision, the right to express one's point of view, and  
19 the right to contest or challenge the decision. None of  
20 this is operationalized in the face of the GDPR.

21 What I find to be really interesting about the  
22 provisions that you are tasked with interpreting is that  
23 there isn't an equivalent in the CPRA or CCPA. Instead,  
24 there's a right to object. So one question for you in  
25 terms of trying to figure out how much alignment you want



1 with what companies are already having to do under  
2 international law, or under transnational law, is to try  
3 to figure out whether your version of objection is gonna  
4 map onto this algorithmic due process that's in Article  
5 22.

6       The suitable safeguards, when you look at the  
7 recital, Recital 71, that accompanies Article 22, also  
8 clearly indicate that there is an individual right to  
9 explanation. Now, there's been debate over this. I  
10 think the debate in my view is rather silly. It's very  
11 clear that in the accompanying document that goes along  
12 with the text, that regulators have decided to interpret  
13 Article 22 to include an individual right to explanation.

14       In the guidelines, too, the European Data Protection  
15 Board points out that this right to explanation is not  
16 necessarily the same thing as the disclosure of  
17 meaningful information about the logic involved. The  
18 Article 22 right to explanation is clearly outcome-g geared  
19 in the sense that it's trying to enable an individual to  
20 exercise the other rights. So an explanation must allow  
21 the individual who's affected by the decision to be able  
22 to challenge that decision. Whatever you put in the  
23 explanation needs to enable the rights.

24       But it's a big mistake to think that these  
25 individual rights are all that the GDPR has to say on

1 automated decision-making. Article 22 clearly, in its  
2 suitable safeguards or suitable measures, also aims at  
3 creating systemic compliance through risk regulation with  
4 a number of substantive goals. Recital 71 states that  
5 companies should implement technical and organizational  
6 measures to ensure that algorithms are not inaccurate, to  
7 make sure that inaccuracies on a systemic level are  
8 corrected. Recital 71, which again is the interpretive  
9 text that accompanies Article 22, not strictly speaking  
10 hard law, but certainly soft law or guidance, says that  
11 companies must prevent discriminatory effects on natural  
12 persons on the basis of a whole long list of categories,  
13 some of which are familiar to us in the US, other ones,  
14 like trade union membership, are more specifically  
15 European in nature. And both of these provisions suggest  
16 that companies are ex-ante responsible for the system and  
17 for ensuring that the system doesn't result in certain  
18 kinds of predictable failures, the harms of which sound  
19 in individual rights again.

20 Furthermore, the guidelines on automated decision-  
21 making say that audits are recommended as part of  
22 suitable safeguards, that third-party expert oversight is  
23 recommended as part of suitable safeguards, and finally,  
24 point to the impact assessment as being part of this  
25 systemic regulation.

1           So this brings me to the connection between the  
2 individual due process rights to the GDPR, and these  
3 impact assessment, the DPIAs. First, it's important to  
4 understand that DPIAs apply well beyond algorithmic  
5 decision-making in the GDPR. They apply to data-  
6 processing in general. Automated decision-making with  
7 significant effects is identified explicitly in the text  
8 of the GDPR as one type of high-risk data pro --  
9 processing that requires a DPIA. So if you understand  
10 Article 35 as establishing that any high-risk  
11 processing -- which is a standard, not a rule -- must be  
12 subject to a DPIA, and particularly high-risk processing  
13 must receive regulatory oversight before the -- it's  
14 actually deployed, then automated decision-making is a  
15 rule within that standard that at least qualifies for the  
16 requirement that you conduct an impact assessment, and  
17 possibly sometimes qualifies for the requirement that you  
18 also consult a regulator before you release the algorithm  
19 for use.

20           The guidelines on automated decision-making  
21 emphasize the centrality of the DPIA, as have several  
22 scholars. Most specifically, I'm thinking of Michael  
23 Veale and Lillian Edwards. They say that the DPI, the  
24 impact assessment, is a crucial aspect of suitable  
25 safeguards, that it aims at systemically mitigating harms

1 on a systemic and importantly, ongoing, not just ex-ante  
2 basis, to individual rights and freedoms.

3       So what's interesting about this is that you have a  
4 risk regulation process, right? You have an ex-ante  
5 impact assessment conducted on a systemic level. It's  
6 gonna try to mitigate harms. And traditionally, when we  
7 think about risk assessment, or we think about risk  
8 mitigation, we think about things in safety-critical  
9 contexts. So we think about, you know, mitigating the  
10 harms, or preventing the harms, like Professor Selbst  
11 said, of car crashes, right? You put in more airbags so  
12 people get hurt less often.

13       The big trick here, the really difficult thing, is  
14 that the harms that are being mitigated in an impact  
15 assessment, in this context, are often not measurable.  
16 Not only that, they're often contestable. So they are  
17 harms to individual rights, not necessarily harms to  
18 something that is quantifiable, measurable, or physical.  
19 So with my colleague, John Claude Malchieri (ph.), who is  
20 a professor in Europe, at Edhec (ph.), we have looked at  
21 this and said, there's something about the DPIA  
22 specifically that connects to this -- the GDPR's due  
23 process rights. And the DPIA, as conceived of in the  
24 GDPR, when it's applied at least to automated decision-  
25 making, should feed into the kind of information that's

1 disclosed to individuals. They're symbiotic, these  
2 individual rights and this systemic analysis.

3       Finally -- I know I'm still in part one of the  
4 presentation, but the other parts are much shorter, I  
5 promise -- it's crucial to understand that these rights,  
6 the rights of notice, the rights of access, the rights  
7 articulated in Article 22 and the obligations and the  
8 DPIA, do not exist in a vacuum. DPIAs exist for other  
9 forms of processing, including systemic large-scale  
10 surveillance of public spaces. So to the extent that  
11 those data sets end up feeding into automated decision-  
12 making, they are additionally governed under the GDPR.

13       The GDPR proposes high level principles that are  
14 enacted throughout the regulation, that also have bigger  
15 implications for data processing, even if it doesn't fall  
16 under Article 22, and that includes fairness and  
17 transparency, purpose limitation, and data  
18 minimization -- that is, state why you want the data and  
19 how you plan on only using it for those purposes -- and  
20 accountability, which I'll come to in a moment.

21       There's a substantive requirement of data protection  
22 by design and by default. So if you're designing an  
23 automated system -- automated decision-making system, or  
24 really any profiling of individuals, you have to take  
25 into account these principles and design your technology

1 ex-ante so that it actually is built to execute those.  
2 And there's a series of under -- other individual rights,  
3 including, for your purposes, an actual explicit right to  
4 object. Now, as I pointed out, in Article 22, you have a  
5 right to contest an automated decision. But  
6 additionally, you have a right to object to processing  
7 writ broad (ph.), not fully broad. There's some  
8 restrictions on it. But this includes and goes beyond  
9 automated decision-making to other kinds of processing.

10 Often, that right to object involves the balancing  
11 test that is conducted by the company. But in at least  
12 one case, it includes an absolute right to object to  
13 direct marketing. So there, if you object to the use of  
14 your information for direct marketing, then the company  
15 can't decide that it's outweighed by other interests.

16 So part 2 of this presentation, I want to talk a  
17 little bit about some normative comparisons and  
18 comparative observations about the GDPR's mode of  
19 governance of automated decision-making, compared to what  
20 we're seeing arise in the United States. So the first  
21 thing I want to mention is that the GDPR's approach to  
22 impact assessments is not really truly exportable without  
23 understanding what else is going on in the GDPR.

24 So it's very much situated in this two-prong  
25 approach of rights and compliance, and in the

1 collaborative governance nature of the GDPR. That is,  
2 it's, on the one hand, systemic risk regulation, which we  
3 know how to do very well in the US. But on the other  
4 hand, it's systemic risk regulation that is targeted at  
5 protecting for human rights that are elaborated by the  
6 human rights court. Stylistically, it's meta regulation  
7 or collaborative regulation, the idea being that much of  
8 what happens in the DPIA is geared at trying to affect  
9 the internal infrastructure, the norms, the heuristics of  
10 a particular company. And accordingly, it really relies  
11 heavily on the regulatory infrastructure that exists in  
12 Europe and certain sort of norms that Europeans have  
13 around collaborative regulation.

14 By contrast, proposals to regulate ADM in the United  
15 States notably largely include -- exclude individual  
16 rights. So this is one place where I think you have the  
17 capability to really be a norm entrepreneur in this  
18 space, where the right to object to an automated  
19 decision-making would be one of the first, if not the  
20 first, examples in the United States of an individual  
21 right that is granted in the context of automated  
22 decision-making. And what I point out is that you might  
23 be a norm entrepreneur, or the California Legislature  
24 might be a norm entrepreneur, citizens of California  
25 might be a norm entrepreneur in this sense, but they're

1 not on the outside, internationally. The international  
2 trend has been to recognize a right to contest automated  
3 decision-makings, even if such a right has not really  
4 been proposed in the United States.

5 The impact assessments that have been proposed in  
6 the US have largely had a very different flavor to the  
7 ones that are proposed in the GDPR, even if you can kind  
8 of track some similar -- some similarities between them.  
9 What do I mean by this? The impact assessments in the US  
10 that have been proposed around automated decision-making  
11 are largely envisioned as more of an enterprise risk-  
12 management tool than as a collaborative governing  
13 conversation with a particular regulator and the public.  
14 That is, they're characterized as self-assessments that  
15 are largely aimed at internal risk mitigation.

16 There is, however, a third model for impact  
17 assessment, and I believe Professor Selbst referenced  
18 this as well, that neither the US nor the EU seems to  
19 really be following, with the exception of really one law  
20 that was proposed in Washington state. And that's MEPA  
21 (ph.), with the environmental impact statement. And this  
22 is to use impact assessments, not just as internal risk  
23 management, nor just as collaborative governance in  
24 conversation with a regulator, but as iterative  
25 policymaking and a form of public accountability, so that



1 the public, or at least impacted stakeholders, can see  
2 what's going on and influence policymaking further in  
3 this space.

4       The recently dropped Wyden, Booker, Clark  
5 Algorithmic Accountability Act tries to kind of thread a  
6 needle between these three models. So some of the impact  
7 assessment is considered to be just self-governance and  
8 internal and enterprise risk management. Some of it is  
9 actually clearly collaborative governance, in that the  
10 reports go to the FTC, and the FTC actually manages --  
11 under this model, reports to the general public,  
12 including a partial publicly disclosed database. And  
13 then as I mentioned, this proposed Washington law, SB  
14 5116, does actually require full public disclosure of  
15 impact assessments. They call them algorithmic  
16 accountability reports. However, this is done only in  
17 the state actor space, not in the private sector.

18       So this brings me to two major weaknesses for the  
19 GDPR regime. The first is public accountability, which  
20 in my view, at least in our country, is absolutely  
21 necessary for some sort of collaborative governance with  
22 the private sector, and the second is stakeholder  
23 participation. That is to say, voices in and voices out,  
24 right? The ability of individuals to influence the --  
25 the creation of policies around impact assessments when

1 they're actually being harmed by the algorithm.

2       So the GDPR does say that companies have to consult  
3 data subjects. But that shall is largely modified by the  
4 requirement that they only need do so where appropriate,  
5 and it's limited by concerns around trade secrecy, et  
6 cetera. And the guidelines on this say that consultation  
7 could be as simple as basically a Qualtrics survey. And  
8 we all know how incredibly informative Qualtrics surveys  
9 can be. Additionally, DPIAs are recommended to be made  
10 public in the GDPR, but certainly not required.

11       And so this is this place where you have a  
12 delegation by a regulator to a company to say, you know,  
13 analyze your system to make sure it's not discriminatory.  
14 Anybody who's impacted by that discrimination doesn't  
15 have to be in the room when you try to figure out what  
16 discriminatory actually means. And then we have no real  
17 oversight except for spot inspection or in some cases  
18 regulatory inspection -- regulatory pre-approval of  
19 whether you've actually effectively mitigated these  
20 harms.

21       That is, voices in and out are crucial for both  
22 defining the nature of the contested harms that are to be  
23 mitigated, making sure that we have a -- a not just  
24 company-defined definition of fairness, discrimination,  
25 bias, error, et cetera, and also making sure that the

1 system as a whole is not just captured by an individual  
2 private company conducting what's effectively self-  
3 regulation.

4       So by contrast, there's actually some interesting  
5 things to be learned, again, from these proposed US laws,  
6 in other jurisdictions or federally. And they take  
7 stakeholder participation much more seriously, even if,  
8 as I mentioned, they're not really leaning on public  
9 disclosure of impact assessments. There's one system,  
10 one proposed law in Washington, the same one, that  
11 suggests that a regulator must consult with affected  
12 communities during the rulemaking process. And in the  
13 Algorithmic Accountability Act, proposed Algorithmic  
14 Accountability Act, a company is not required to consult  
15 with affected communities and representatives but must  
16 chart its consultation with affected communities and  
17 representatives and explain why it hasn't taken those  
18 suggestions into effect for each individual impact  
19 assessment.

20       And again, this is necessary not just for oversight  
21 over the actual algorithm, the technology, but also for  
22 oversight over the process by which the company is  
23 effectively self-regulating or mitigating the risks.

24       So to my takeaways, and to close, the GDPR, and for  
25 that matter, the draft EUIA Act, which I haven't had time

1 to get into today, first doesn't really raise a lot of  
2 big definitional concerns about what we call automated  
3 decision-making. And that's because there are other  
4 parts of Article 22 that serve as gatekeeping functions.  
5 So the regulations of Article 22 are triggered less by  
6 are you a solely automated decision-making system, and  
7 more by the fact that such decisions have significant  
8 effects. Or the DPIA requirement is triggered really by  
9 whether there are high risks from processing. Thus they  
10 don't really need to sort out what counts as an automated  
11 decision.

12 A second takeaway -- this resonates with Professor  
13 Selbst's presentation as well -- is that the EUAI Act  
14 differs from the GDPR in that it largely focuses on the  
15 producers of the technology and not as much on the users.  
16 And the developers and users of automated decision-making  
17 should really share responsibilities for those harms.  
18 Again, Professor Selbst gave the same analogy I was going  
19 to use. It's like thinking about the driver of the car  
20 and the car manufacturer. On the one hand, the driver of  
21 the car knows the context in which the car's being  
22 deployed and should have responsibility for deploying it  
23 in harmful manners. On the other hand, the car  
24 manufacturer's not off the hook, because if you design  
25 tires that can't work in winter weather and you don't

1 provide other options, then the car is gonna crash.

2 Third, as a takeaway, I wanted to speak just very  
3 briefly to a human in the loop. Placing a human in the  
4 loop, which is how some people read Article 22, but not  
5 how I read it, is the least sophisticated and probably  
6 the most problematic mode for governing automated  
7 decision-making. That is because the humans that are  
8 placed in the loop are rarely empowered, and a hybrid  
9 human-technical system creates human factors --  
10 engineering tell us this -- plenty of additional  
11 challenges of its own, like the handoff problem. How do  
12 you alert people, how do you train people, how do you  
13 keep them engaged? And so this dominant model that's  
14 emerging international is this combination of systemic  
15 oversight coupled with robust individual rights, which,  
16 again, I think you have the opportunity to make real here  
17 in the United States.

18 Third -- fourth, while risk regulation is the  
19 dominant model, there is significant challenges with  
20 using risk regulation alone, so impact assessments alone,  
21 to regulate automated decision-making. And this comes to  
22 the nature of the harms primarily, though there are other  
23 issues as well. The harms in automated decision-making  
24 are not quantitative or quantifiable physical risks, but  
25 are contested concepts, such as discrimination and

1 fairness. And this implicates not just, you know, the  
2 possibility of trying to define these harms in advance  
3 through regulation, but also how we design regulation so  
4 that other actors, not just companies, have input into  
5 these contested concepts. In the European Union, this  
6 involves a human rights court. And here we have to think  
7 really critically about how to involve impacted  
8 stakeholders and what regulations might look like.

9 Fifth, an impact assessment can be a very different  
10 tool in different regimes toward very different goals,  
11 *depending* on when you're looking at it as an instrument  
12 of meta governance to get companies to change their  
13 heuristics, versus simple enterprise risk-management,  
14 versus the NEPA model of public accountability and policy  
15 and duration. And an impact assessment can take a lot of  
16 different shapes with respect to time. It can be ex-  
17 ante, it can be ongoing, it can be iterative, it can  
18 include or not include post-market measures.

19 And finally, finally, most crucial, voices in and  
20 voices out are essential to effective governance.  
21 Transparency matters not just because the algorithm  
22 itself is part of this trope of the black box algorithm,  
23 but because transparency makes the difference between an  
24 impact assessment being a self-assessment versus being  
25 actual governance. And these AIAs and DPIAs can be

1 linked to individual disclosure rights to provide some of  
2 that transparency. And finally, impacted stakeholders  
3 must be involved.

4 Thank you very much for your time.

5 **MS. URBAN:** Thank you so much, Professor Kaminski,  
6 again, for that really interesting, informative, and  
7 clear presentation. It is much appreciated.

8 I would like to -- Professor Kaminski was actually  
9 our last speaker for the day. So I would like to just  
10 take a moment to thank all of the speakers over day 1 and  
11 day 2 again for developing the deep expertise that they  
12 have and for being willing to take the time to share it  
13 with all of us. As a reminder, of course, the guest  
14 speakers' views should not be taken as the views of the  
15 agency or the Board. They are the presenter's views  
16 only. But I hope that they were interesting and  
17 informative for everyone listening.

18 We will now proceed with public comments on any of  
19 the presentations for today. I will go ahead and say a  
20 little bit again about how the mechanics of public  
21 comment work, just so everybody is comfortable with that,  
22 and then we will go into it. If you wish to speak on an  
23 item, please use the -- excuse me, if you wish to speak,  
24 please use the "raise your hand" function, which is in  
25 the reaction feature on the bottom of your Zoom screen.

1 The moderator -- our moderator, Mr. Gourley, will look  
2 for raised hands, and they will -- and will request you  
3 to unmute yourself for comment. When your comment is  
4 completed, Mr. Gorley will mute you again.

5 We do find it helpful if you identify yourself, but  
6 again, this is entirely voluntary, and you don't need to  
7 do so if you would rather not. Also, as a reminder, each  
8 person has three minutes. And please do -- please do  
9 keep your comments to three minutes or less. And  
10 accord -- and under the rules of the road, of Bagley-  
11 Keene -- the Bagley-Keene Open Meeting Act, comments are  
12 required to be tied to the agenda items. So any  
13 presentation today, please feel free to comment on that.  
14 Presentations from yesterday were appropriate to comment  
15 on yesterday.

16 Also, please realize that the Board and the speakers  
17 cannot generally respond to comments. But please, please  
18 do not take this to think that we are not listening or  
19 that we are being nonresponsive. It is important that we  
20 make sure that we comply with Bagley-Keene in order to  
21 avoid compromising either the commenter's goals or the  
22 Board's mission. So we are listening.

23 All information, including public comments, are  
24 being recorded and transcribed and will be available for  
25 the Board, for the agency staff, and indeed for the



1 public to review. And again, if you have any questions,  
2 please do write to info@coppa.ca.gov.

3 All right, with that, I hope that was clear. Are  
4 there any comments from members of the public?

5 **MR. GOURLEY:** Yes, there are, Chairperson Urban.

6 **MS. URBAN:** Please go ahead.

7 **MR. GOURLEY:** Ms. Loas (ph.), you may now unmute  
8 yourself. Thank you.

9 **MS. LOAS:** Hi. Thanks again for holding this  
10 informational session. I found it very helpful, just  
11 like yesterday. I did want to comment on automated  
12 decision-making, as that was the topic for today. So the  
13 CPRA -- actually, it's -- it's still quite -- it's not  
14 very clear whether the CPRA will provide an opt-out of  
15 profiling, so I think the CPPA is empowered to issue regs  
16 on that. But I think on that note, it might be helpful  
17 to understand whether, one, it'll -- it'll hinge on  
18 decisions that produce legal or similarly significant  
19 effects, and two, what those legal or similarly  
20 significant effects are. So just, like, providing some  
21 examples on that and whether we can take from the GDPR  
22 use cases, because there's a lot of resources on that  
23 end, or to what extent we can use those resources, as we  
24 operationalize some of these requirements.

25 So I think just kind of drawing the line of, you

1 know, what resources can we look to when we try to  
2 operationalize the opt-out of ADM, including profiling.  
3 Thanks.

4 **MS. URBAN:** Thank you very much, Ms. Loas.  
5 Mr. Gourley, is there further public comment?

6 **MR. GOURLEY:** Yes, there is.

7 Ms. Huddleston (ph.), you may now unmute yourself.

8 **MS. HUDDLESTON:** Thank you. And thank you, Madam  
9 Chair, for hosting this informational session today, as  
10 well as the one yesterday. My name is Jennifer  
11 Huddleston, and I'm policy counsel with NetChoice. While  
12 it's worth acknowledging the concerns that were expressed  
13 by several of today's experts, I would ask that the  
14 agency should also be cautious about overly expansive  
15 actions that would penalize the use of neutral and  
16 beneficial technologies in a way that undermines their  
17 many daily uses that have benefitted consumer -- consumers,  
18 including ways that technology such as algorithms improve  
19 and provide solutions for privacy, security, and  
20 authentication concerns.

21 As the Board considers their potential rulemakings  
22 on these issues, it should carefully consider the impacts  
23 on the beneficial uses as well as its attempts to address  
24 any concerns there are and also, as was mentioned earlier  
25 today, the impact on other issues, including speech, that

1 may arise from these regulations. With that in mind, the  
2 Board should focus on their roles on the authority they  
3 were given as it relates to privacy. Thank you.

4 **MS. URBAN:** Thank you very much, Ms. Huddleston.  
5 Mr. Gourley, are there -- is there further public  
6 comment?

7 **MR. GOURLEY:** Yes, there is, one more.

8 Mr. Winters (ph.), you now have permission to unmute  
9 yourself.

10 **MR. WINTERS:** Hi. I'm Ben Winters (ph.). I am  
11 counsel for the Electronic Privacy Information Center.  
12 And I'd like to thank you for the opportunity to comment  
13 and for creating these public processes where we can get  
14 these great pub -- presentations. So I -- I pick plans  
15 (ph.) on writing. You know, we -- we commented earlier  
16 and planned on continuing to comment. But just in terms  
17 of automated decision-making systems, I'd like to urge  
18 the commission to -- or the -- the agency to adopt a  
19 broad rights-enhancing definition of automated decision-  
20 making technology, as well as profiling, ensure easy  
21 access to information about the use and logic of  
22 automated decision-making systems, and make it as easy as  
23 possible for individuals to opt-out of such systems.

24 That broad definition may, you know, be met with  
25 concerns from industry and even individuals with

1 beneficial uses of automated decision-making  
2 technologies, but that should be a burden that they can  
3 fulfill, and the risk of underinclusive definitions is --  
4 is a -- is a greater one. And so we will provide more  
5 specific comments and suggestions to the agency  
6 throughout this process on how to define those. But  
7 those are substantial and important risks and -- and  
8 rights. And again, thank you for the opportunity.

9 **MS. URBAN:** Thank you very much, Mr. Winters.  
10 Mr. Gourley, is there further public comment?

11 **MR. GOURLEY:** Yes, there's another one.

12 Mr. Winagle (ph.), you are now available to unmute  
13 yourself.

14 **MR. WINAGLE:** Great. Thank you. So I just wanted  
15 to make one quick con -- comment. I am counsel from  
16 Ultimate Kronos Group, and we deal a lot with AI on the  
17 employment side. So the -- the first general comment  
18 that I wanted to make is that, as we've seen in the EU AI  
19 proposal, there are significant differences between AI  
20 when it's used in different sectors. Now, obviously,  
21 when we're looking at general data protection regimes,  
22 they are trying to craft very broad solutions that --  
23 that cut across all sectors. But in particular for AI, I  
24 think as we see that Europe and the EU is recognizing  
25 that this may not be kind of, like, a one-size-fits-all

1 type solution. So in the EU AI proposal, they're looking  
2 at when AI may affect -- may be high risk in certain  
3 areas.

4 And -- and one of them that they look at is -- is  
5 for example, employment. But -- but I would note that it  
6 is kind of important that when we look at how AI is going  
7 to work with respect to employment, we already have a  
8 number of regulations, as many of the speakers have --  
9 have pointed out today. Discrimination is a serious  
10 issue when it comes to AI. But in employment, we already  
11 have, in California and in the United States, very strong  
12 anti-discrimination laws. So it's important to think  
13 about how these systems are going to interact with the  
14 existing laws and make sure that we are not essentially  
15 overregulating when we are putting certain laws in place  
16 for AI and employment.

17 That is, of course, assuming that the C -- CPRA  
18 is -- is actually going to apply to employment and -- and  
19 that -- that application doesn't go away for some  
20 point -- at -- at some point in the next year. That's  
21 it. Than -- and thank you for everyone, for listening.

22 **MS. URBAN:** Thank you very much. Very much  
23 appreciated.

24 Mr. Gourley, is there further public comment?

25 **MR. GOURLEY:** There is no comment at this time.

1           **MS. URBAN:** Thank you, Mr. Gourley. I will wait  
2 just a few seconds in case anybody's fiddling with the  
3 way they raise hand or is thinking.

4           **MR. GOURLEY:** There is one more.

5           **MS. URBAN:** Okay. Thank you.

6           **MR. GOURLEY:** Okay. Ms. Smith, you are now  
7 permitted to unmute yourself.

8           **MS. SMITH:** Hi, this is Nicole Smith again from  
9 ServiceNow. I just wanted to thank all the pre --  
10 presenters for a wonderful presentation. It was very  
11 helpful. And I'm privacy counsel for ServiceNow in  
12 Silicon Valley. And as you know, Silicon Valley and  
13 California -- throughout California, we are a cradle of  
14 development for AI.

15           There's a lot already in development, and many  
16 companies like ServiceNow, Workday, Google have a set of  
17 AI principles already that they're holding themselves to  
18 in an effort to -- and to future proof the technology in  
19 anticipation of there being requirements to make sure  
20 that the AI isn't discriminatory, et cetera. And it  
21 looks like this is a direction that not only California  
22 but many other states and countries are going.

23           And to that end, it would be wonderful even -- if  
24 you could let us know in advance, so that we can adjust  
25 early on, rather than later in the development process,

1 and take into account any additional responsibilities  
2 that you see coming down the pipeline, essentially, as  
3 soon as possible, even perhaps before the final -- the  
4 rules are finalized, just because it takes a lot to be  
5 able to pivot. So the earlier we have the information,  
6 the earlier we can do a course correction, and it just  
7 would be greatly appreciated to get any kind of tips or  
8 outlines in advance, to the extent that it's available,  
9 even prior to the final rules being promulgated.

10 That's -- that's my comment. Many thanks.

11 **MS. URBAN:** Thank you very much, Ms. Smith. And  
12 thanks to everyone who has commented.

13 Mr. Gourley, are there further public comments?

14 **MR. GOURLEY:** There are no other commenters at this  
15 time.

16 **MS. URBAN:** Okay. Again, thank you to everyone who  
17 has provided such useful public comments over the last  
18 couple of days. And again, a big thank you to our  
19 presenters for their careful, informative, and rich  
20 presentations. They are very much appreciated.

21 Just a quick reminder that recordings -- a recording  
22 of the sessions and the presentations that speakers use  
23 will be on our website under meetings and events when  
24 they are processed. They do have to be put through  
25 processing in order to be accessible, but we hope that

1 they will be up soon. And when a transcript can be  
2 produced, that will also be put up.

3 I would be -- feel remiss if I didn't make one more  
4 plug for the stakeholder sessions while everyone is still  
5 here. Please do go to our website and check out the  
6 stakeholder sessions, and sign up if you are interested  
7 in doing that. We would greatly appreciate that.

8 And with that, I will move to our very last item,  
9 which is adjournment. Again, thank you to the  
10 presenters. Thank you to everyone who engaged in public  
11 comment. Thank you to board members and staff for all  
12 the work that you've done, and the -- and putting the  
13 meeting together, staff across several agencies, for all  
14 of their contributions to these informational sessions,  
15 and to the Board's work. With that, these informational  
16 sessions at the California Privacy Protection Agency are  
17 adjourned. Thanks, everyone.

18 (End of recording)

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TRANSCRIBER'S CERTIFICATE

STATE OF CALIFORNIA

This is to certify that I transcribed the foregoing pages 1 to 128 to the best of my ability from an audio recording provided to me.

I have subscribed this certificate at Phoenix, Arizona, this 24th day of April, 2022.



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Mariam Ayad

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