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FEDERAL TRADE COMMISSION

DATA TO GO:

AN FTC WORKSHOP ON DATA PORTABILITY

TUESDAY, SEPTEMBER 22, 2020

8:30 A.M.

VIRTUAL EVENT

1		
2		
3	FEDERAL TRADE COMMISSION	
4	I N D E X	
5		PAGE:
6	Welcome and Opening Remarks	3
7		
8	An Overview of Data Portability:	10
9	Concepts and Terminology	
10		
11	Data Portability Initiatives in the European	
12	Union, California, and India	31
13		
14	Financial and Health Portability Regimes:	
15	Case Studies	82
16		
17	Reconciling the Benefits and Risks of Data	
18	Portability	134
19		
20	Realizing Data Portability's Potential:	
21	Material Challenges and Solutions	198
22		
23	Closing Remarks	257
24		
25		

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

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3 WELCOME AND OPENING REMARKS

4 MS. SIGNS: Good morning and welcome to Data  
5 To Go, the FTC's workshop on data portability. My  
6 name is Kelly Signs. I'm a Deputy Assistant Director  
7 with the Bureau of Competition at the FTC. On behalf  
8 of the entire FTC workshop team, we're delighted that  
9 you're joining us today via our live webcast.

10 Before we begin our program, I have a few  
11 administrative details to cover. First, a video  
12 recording and transcript of these proceedings will be  
13 available on our workshop webpage shortly after the  
14 event. Our intent is to create a lasting resource  
15 for anyone who's interested in this important topic.

16 Second, as with any virtual event, we may  
17 experience technical issues. If these occur, we ask  
18 for your patience as we work to address them as  
19 quickly as we can. We will let you know if there are  
20 going to be any significant delays.

21 Third, we'll be accepting audience questions  
22 via our dedicated email address, [dataportability@](mailto:dataportability@ftc.gov)  
23 [ftc.gov](mailto:dataportability@ftc.gov). Due to time constraints, we may not be able  
24 to get to all the questions, but we will review all  
25 the ones that we receive.

1                   Finally, please join us on Twitter. Our  
2                   Twitter handle is @FTC, and we'll be tweeting using  
3                   the hashtag #datatogoftc.

4                   And now I have the great pleasure to  
5                   introduce our first speaker, Andrew Smith. Andrew is  
6                   the director of the FTC's Bureau of Consumer  
7                   Protection. He came to the FTC from the law firm of  
8                   Covington & Burling, where he chaired the financial  
9                   services practice group. Earlier in his career,  
10                  Andrew was a staff attorney at the FTC where he led  
11                  the agency's rulemaking efforts under the  
12                  Fair Credit Report Act.

13                  Andrew has written extensively on consumer  
14                  protection and financial services issues, and served  
15                  as Chair of the American Bar Association's Consumer  
16                  Financial Services Committee. Welcome, Andrew.

17                  MR. SMITH: Thank you, Kelly, and welcome,  
18                  everyone, to Data To Go, an FTC workshop on data  
19                  portability. Thank you all for tuning in. I'm sorry  
20                  we can't all be in the same room this morning to  
21                  interact with one another in person, but I'm grateful  
22                  that we still have the ability to host a workshop on  
23                  such an important issue with experts from around the  
24                  world. This is the FTC's third virtual workshop, and  
25                  I'm confident that it will be another success.

1           In the last few years, data portability has  
2 emerged as a hot topic in both antitrust and consumer  
3 protection circles. Freeing up data promises to  
4 increase consumers' choice and control their own  
5 privacy. It could also foster competition by, among  
6 other things, lowering barriers to entry. But there  
7 are risks. While there may be privacy benefits to  
8 allowing consumers greater choice and control,  
9 increased data flows raise serious questions about how  
10 to make sure that data is kept safe. This convergence  
11 of issues has presented the FTC, which has both  
12 competition and consumer protection missions, with the  
13 opportunity for staff from across the agency to  
14 collaborate.

15           This workshop is a prime example. And I'd  
16 like to thank Jarad Brown and Kate White from the  
17 Bureau of Consumer Protection; Andrea Zach, Kelly  
18 Signs, Chris Grengs and Ryan Quillian from the Bureau  
19 of Competition; Ben Smith from the Bureau of  
20 Economics, and Guilherme Roschke from the Office of  
21 International Affairs for bringing us this event.

22           The term "data portability" can mean  
23 different things to different people. For some, data  
24 portability refers to the ability of consumers to  
25 receive a copy of the data about them either for their

1 own conveniences or to move the data to another  
2 service. For others, data portability means the  
3 transfer of data about multiple individuals so that,  
4 for example, a business can easily move its customers  
5 database from one vendor to another.

6 Across the globe and here in the U.S., we  
7 have seen various approaches to portability. Some  
8 approaches such as in the EU and California have  
9 focused on an individual's rights to portability.  
10 These jurisdictions have enacted general consumer  
11 privacy laws, and although there are differences in  
12 their regulations, both jurisdictions give consumers  
13 the right to receive their data in a format that more  
14 easily allows the transfer of that data to another  
15 entity.

16 India, on the other hand, does not have a  
17 general privacy law, and its data portability  
18 initiatives aim to increase consumer access to  
19 services, especially health and financial services.

20 Other approaches such as the UK's Open  
21 Banking initiative and the interoperability rule at  
22 HHS Office of the National Coordinator for Health  
23 Information Technology, have taken a sector-specific  
24 approach. They have each created secure standardized  
25 methods for data to be transferred with the goal of

1 providing consumers with better access and control  
2 over data and increasing competition.

3 At the same time as these government  
4 initiatives, there are industry-wide efforts such as  
5 the Data Transfer Project that are working on ways to  
6 create open source service-to-service data portability  
7 platforms to allow consumers to easily move their data  
8 between companies.

9 We're fortunate today to be joined by  
10 regulators and other experts and stakeholders to  
11 discuss their experiences with these rules and  
12 projects. We'll start the day with a presentation  
13 from Peter Swire, who will provide relevant background  
14 on the issue and set the table for the rest of the  
15 day's discussion.

16 Then our first panel will offer a look at  
17 data portability initiatives in the EU, India and  
18 California. Our second panel will explore sectoral  
19 approaches to data portability. Our afternoon  
20 sessions will take a more general look at data  
21 portability, and beginning with our third panel, which  
22 will discuss the attributes, benefits and challenges  
23 of data portability initiatives with an eye toward the  
24 twin aims of protecting consumers and promoting  
25 competition. Our final panel of the day will tackle

1 some key concerns confronting data portability  
2 initiatives -- security, privacy, standardization and  
3 interoperability -- and will consider some solutions.

4 So I'm looking forward to hearing all of our  
5 panelists' thoughts on these issues. The goal of  
6 today's discussion isn't a broad policy pronounced  
7 measure or legislative recommendation. Rather  
8 we intend for today's program to be a contribution to  
9 the broader discussion among global policymakers about  
10 how data portability can empower consumers and promote  
11 competition without compromising data security.

12 For example, the OECD has recently sponsored  
13 similar events on data portability, and we also will  
14 be paying close attention to other developments such  
15 as the CFPB's recently announced effort to make rules  
16 under the Dodd-Frank Act to facilitate consumers'  
17 access to financial data.

18 Before I close, I want to thank the  
19 panelists for giving us their time. Because this is a  
20 virtual event, many of our speakers are participating  
21 from other time zones. So a special thanks to those  
22 of you who are joining us for a very early morning or  
23 a very late night. And thank you to everyone who is  
24 attending virtually. We appreciate the opportunity to  
25 engage with the public on this important issue, and I



1 hope you enjoy the FTC's Data To Go. We will open  
2 with a presentation from Professor Peter Swire that  
3 will begin at 8:40. Thank you.

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1           In the course of talking about the PORT-IA,  
2 I'll talk about results from sectoral case studies  
3 that I've done in the United States and Europe, and  
4 I'll explain the importance of having a  
5 multidisciplinary assessment of these issues. Next  
6 slide.

7           So, as I said, I'm a professor now at  
8 Georgia Tech. I'm wearing my Georgia Tech colors on  
9 my tie today. I'm also a senior counselor with the  
10 law firm of Alston & Bird. I've worked on privacy and  
11 related issues since the mid-1990s. In the late  
12 2000s, I worked in the White House in the U.S. Office  
13 of Management & Budget as the chief counselor for  
14 privacy with U.S. government-wide responsibility for  
15 privacy policy. That's when HIPAA and Gramm-Leach-  
16 Bliley happened, for instance.

17           If you get certified as a U.S. privacy  
18 professional, I'm the lead author on the textbook for  
19 taking that test. And I've been a professor at law  
20 schools and elsewhere in privacy, in cybersecurity,  
21 and in antitrust law. So I have a relatively unusual  
22 background of having taught all of these subjects.

23           I've also worked at the intersection of  
24 privacy and antitrust for quite some time. In 2007,  
25 the FTC asked me to testify about that intersection,

1 and I proposed that we could understand privacy as a  
2 nonprice or a quality aspect of competition. And this  
3 approach of a nonprice aspect of competition has been  
4 widely adopted since then.

5 In 2013, after the draft of GDPR was  
6 released, with a co-author, Yianni Lagos, I wrote an  
7 extensive article on data portability, and I decided  
8 over a year ago to come back to data portability to  
9 see if we could try to make sense out of what to do  
10 next. Next slide.

11 So, again, as Andrew said, there's a number  
12 of reasons for the current interest and for having  
13 this workshop today. One thing is that we have new  
14 broadly applicable laws on the right to data  
15 portability. The GDPR in Europe went into effect in  
16 2018, just two years ago. In California, the  
17 California Consumer Privacy Act went into effect in  
18 2020, at the beginning of this year. And so for very  
19 large numbers of companies, they're facing an  
20 obligation to have an individual right of data  
21 portability.

22 A second reason for these debates are the  
23 intense policy debates that everyone on this call  
24 probably knows about, about the digital platforms.  
25 What about privacy? What about antitrust and

1 competition issues? And these intense debates are  
2 happening both in the European Union and the United  
3 States. And in my research project, I try to give  
4 roughly equal attention to both the EU and U.S. I've  
5 worked on EU law for many years.

6 A third reason for the current interest is  
7 there's multiple sectors, important sectors, in the  
8 United States and Europe that now have mandated data  
9 flows. So, for instance, HHS, the U.S. Department of  
10 Health and Human Services, issued it's healthcare  
11 interoperability rule in final form in February of  
12 this year, March, I guess. And in EU, the open  
13 banking in the UK and the Payment Services Directive  
14 for the entire European Union, is in the late stages  
15 of being implemented. So you have healthcare, you  
16 have financial services, major sectors that are  
17 subject to these data portability issues. Next slide,  
18 please.

19 So for the terminology, because it's been  
20 confusing to talk about the different kinds of data  
21 flows, I suggest one -- others may find better ways to  
22 define it. And so for me the right to data  
23 portability is about an individual right to transfer  
24 data. And especially if you talk to European Union  
25 lawyers, but I think also California lawyers,

1 portability with a small "p" is becoming a term of  
2 art. If a European lawyer says there's a portability  
3 issue, that means there's an issue of one person  
4 having their data transferred to a different place.  
5 And so that's an individual right to transfer it to  
6 that person himself or herself, whereas an individual  
7 right to transfer from the original service to a  
8 different service, that's an individual transfer  
9 right. For me, that's a small "p".

10 Now, there's also a lot of discussion,  
11 again, as Andrew Smith mentioned, about having  
12 mandates, proposed or actual now, to transfer entire  
13 databases, to transfer data involving more than one  
14 person. In Europe, this has typically been called  
15 data sharing. So you'd move a lot of data from this  
16 database to that database, and they call it data  
17 sharing.

18 In my view, that's a vague term because data  
19 is shared in so many ways for so many different  
20 reasons around our digital economy. And so my paper  
21 proposes calling these "other required transfers."  
22 It's either portability about one person or it's other  
23 required transfers about a lot of people.

24 And so to give an example of other required  
25 transfers, in the United States under the new rule

1 that HHS issued this year, a hospital or doctor's  
2 office has a right to transfer all of its records from  
3 one software provider to another one. That's a  
4 massive transfer of records partly so it doesn't get  
5 locked into the particular software provider or cloud  
6 provider it has today.

7 And that kind of law is very familiar in the  
8 European Union. They have a regulation on it to go to  
9 the General Data Protection Regulation on personal  
10 data. They have what's called the free flow of data  
11 regulation for nonpersonal data, for other business  
12 data, and it has these same kinds of rules of transfer  
13 of one database from one place to another. Next  
14 slide, please.

15 So continuing on terminology, the word  
16 interoperability features very highly in discussions  
17 of these kinds of issues. And I suggest that the  
18 proposed definition of interoperability has to do with  
19 the technical ability of two or more systems to  
20 exchange information. That might be common data  
21 formats, you know, having a picture look like a  
22 picture. It could be common communication protocols,  
23 how my computer speaks to your computers to structure  
24 the interactions between the computers. And it can  
25 include other technical mechanisms that enable

1 operation of two or more systems. So, for me, I think  
2 it's least confusing, most clear, if we use  
3 interoperability to be a technical word about  
4 transfers from one place to another.

5 Now, the HHS rule, which they call the  
6 interoperability rule, I think can learn from the  
7 discussions that this workshop is having today,  
8 because HHS has used the word "interoperability" in  
9 what I think are three pretty different situations.

10 So it applies to the technical issues I just  
11 described higher in this slide. Second, it applies to  
12 individual portability. So under HHS you'd be able as  
13 an individual to move your data from a provider to  
14 your app on your phone. And it also applies to other  
15 required transfers such as moving a doctor's office's  
16 records from one cloud provider to another.

17 So for me the first of these threes would be  
18 interoperability; the second would be lowercase "p"  
19 portability, and the third would be other required  
20 transfers such as to a new cloud provider. Next  
21 slide, please.

22 Now, one reason certainly for having the  
23 interest we have here and having the regulators we  
24 have from different countries in the world, is that  
25 this individual right to data portability has gained



1 great new prominence in recent years. So under  
2 Article 20 of the GDPR, data subjects -- individuals  
3 -- have a right to receive data or transfer it to a  
4 third party in most cases that they have provided to  
5 the controller. So if I use a service, I have a right  
6 to transfer it to myself or to others. And the  
7 language in the GDPR has been picked up in a lot of  
8 laws around the world. The transfer has to be what?  
9 It has to be without hindrance, super quick, easy,  
10 without hindrance portability. That's the law in the  
11 European Union.

12 California picked up similar kinds of words.  
13 So in the California law that's on the books and in  
14 effect today, there's an individual right to access  
15 data, but that access has to be done in a way that is  
16 portable -- there's our word "portable" -- and a  
17 readily usable format. So the service must provide  
18 the consumer with the data in a portable and readily  
19 providable format.

20 So conclusion on this slide, just since  
21 2018 -- and now it's 2020 -- we've had implementation  
22 done in the European Union and in California -- and  
23 California is economically significant. It's often  
24 said that California would be the fifth biggest  
25 economy in the world if it was a standalone economy in

1 terms of gross national product. Next slide, please.

2           So that brings us to our dilemma. Overall,  
3 as we think about this, should we open up or close  
4 down data flows? And for antitrust and competition  
5 reasons, there are many compelling reasons to open  
6 data flows. Let's just imagine that there's important  
7 databases in our economy, valuable databases about  
8 people that are large, that contain a lot of people's  
9 data. Well, that's what we live with. We have those  
10 in the major services and lots of other places in our  
11 data-oriented economy.

12           So the idea for antitrust people is if more  
13 companies have access to that commercially valuable  
14 data, then those companies can compete, they can  
15 innovate, they can have a more effective competition  
16 around that valuable resource. Okay. That's what the  
17 antitrust people's intuition is.

18           For people who start from privacy and  
19 cybersecurity, often they're looking to have ways to  
20 close data flows. What if data goes to the wrong  
21 person? Well, that's not good. The game for privacy  
22 in cybersecurity is to stop it from getting to the  
23 wrong people. So cybersecurity tends to focus on  
24 unauthorized access. That's a hacker getting into the  
25 data, pretending to be you to transfer the data, or

1 that's an insider who's not supposed to look at the  
2 data getting it. That's the cybersecurity angle.

3 The privacy angle is more about what focus  
4 we have on access that should be authorized. And  
5 often in privacy, those complicated set of rules,  
6 often the rules are let's be cautious unless the  
7 individual consented or basically knew what was going  
8 to happen.

9 So in terms of antitrust, we've seen clear  
10 evidence that the interest in portability from  
11 regulators in Europe and the United States. The  
12 Federal Trade Commission Director of Competition, who  
13 I believe is speaking later today, in February said  
14 the breadth of additional relief that may be  
15 considered include obligations to provide data. And  
16 you can see the rest of the quote on the slide. Well,  
17 obligations to provide data sounds like data  
18 portability. And we have the workshop today showing  
19 the FTC's interest in this issue.

20 In Europe, their Commissioner for  
21 Competition, Ms. Vestager, discussed the prominent  
22 position of data in digital markets, which I think we  
23 all accept, and she said the need to ensure the  
24 possibility of entry, new entry, by more competitors  
25 may argue in favor of mandating access to data. And

1 those other required transfers, those mandates, are  
2 central to what we're talking about. And the European  
3 Union released it's European data strategy earlier  
4 this year with many discussions of portability. Next  
5 slide, please.

6           So to respond to that dilemma, I'm  
7 suggesting in my study that's available today at  
8 [ssrn.com](http://ssrn.com) to create a well-designed Portability and  
9 Other Required Transfers Impact Assessment. And the  
10 method here is similar to privacy impact assessments  
11 that are required for U.S agencies, for instance, in  
12 the United States where the data protection impact  
13 assessments that are required under GDPR.

14           And the methodology for the study, for all  
15 this work I've been doing for over a year, has been  
16 first to try to draft structured questions of what the  
17 impact assessment would ask, to try to have a  
18 systematic assessment, and then test those assessments  
19 against all those case studies that I showed you  
20 earlier. And then the case -- the structured  
21 questions change quite a bit. We learn from all these  
22 case studies. And we can validate the structured  
23 questions based on these numerous case studies across  
24 different geography, across different sectors, across  
25 different types of data. Next slide, please.

1           So to look at the case studies a little bit  
2 more, for the EU and the U.S. we looked at phone  
3 number portability. You can go to one phone company  
4 provider and keep your phone number when it goes to  
5 another provider. That's been on the book for almost  
6 20 years.

7           Now, this portability approach has been  
8 super successful. But after I've looked at it,  
9 compared to other case studies, it looked like a  
10 misleadingly -- a misleadingly easy case. Most people  
11 want their phone numbers known to the other people in  
12 their lives. So it's not a privacy problem. They  
13 want the data out there. So you don't have that  
14 tension between privacy and competition that we see in  
15 some other sectors.

16           The study looks at a U.S. financial services  
17 and EU financial services case study, and the Dodd-  
18 Frank Act of 2010 where there's rules that are  
19 supposed to be developed now by a U.S. agency requires  
20 portability for consumer financial records.

21           Looking at EU and U.S. healthcare -- and in  
22 March this year we've been talking about this HHS rule  
23 where individuals get portability to their smart phone  
24 apps, that's small P portability, and there's other  
25 required transfers to move to a new healthcare

1 provider.

2 I also have a case study on open data for  
3 government databases. You can think of when  
4 government has open data requirements, it's a  
5 mandatory portability out to the internet. People can  
6 get the data. And there's a set of laws in Arizona  
7 and three other states that were recently passed that  
8 have to do with when auto dealers are locked into a  
9 provider for their software services, what are the  
10 rules for being able to move to a different software  
11 provider? Next slide, please.

12 So now we'll do a very quick overview of the  
13 top-level questions in the PORT-IA, not the sub-  
14 questions. First, the first question is, define the  
15 challenge or opportunity that leads to a possible  
16 port. Where does the data come from? Where does it  
17 go? What types of data are covered? What  
18 specifically are the legal requirements? You get your  
19 engineers in here to do a data map and then you look  
20 at the legal requirements so you know what you're  
21 talking about. You have to do that first. What does  
22 the world look like? Next slide, please.

23 For benefits, here's a set of questions.  
24 Question two is, assess the PORT rationales based on  
25 competition. And there's subquestions on network

1 effects, on lock-in effects, on barriers to entry and  
2 on other competition issues.

3           Next, assess innovation and other commercial  
4 benefits due to the PORT. If we move the data around,  
5 maybe there'll be new and cool companies that can do  
6 things with it. Question four is, assess the  
7 noncommercial benefits due to the PORT. And this is  
8 where individual rights come in. The individual has a  
9 right to control their own data. And that's not  
10 primarily about finances. It's about some self-  
11 determination about your right to data.

12           Question five is, assess the regulatory  
13 benefits that come from this new rule. Question six  
14 is, watch out, there might be less benefits, reduced  
15 benefits, because maybe there's technical feasibility  
16 problems. It's not interoperable. Maybe there's  
17 market limitations. People aren't actually asking for  
18 the data. So you might dream of a huge benefit and it  
19 might be less in practice.

20           And then question seven is, assess the  
21 incentives of those presenting evidence for the  
22 benefits. Maybe there's a company that's trying to  
23 get data from another company. They have a reason to  
24 say portability is wonderful. It doesn't mean they're  
25 wrong, but at least you should recognize why it is

1 that they're doing what they're doing. Next slide,  
2 please.

3 So once you've done these data portability  
4 benefits, let's do our risks and our costs that come  
5 from portability. Question eight is, assess the  
6 privacy risks. And there's subquestions about  
7 identify data, de-identify data, data of third  
8 persons.

9 Next is assess the security risks about  
10 unauthorized access or problems with security in  
11 transit. Next in question 10 is, assess the risk from  
12 the PORT that may arise for either security or privacy  
13 reasons. And there's two here that I go into more  
14 detail in the paper. One of them is the risk of  
15 onward transfer. If the data goes to the receiving  
16 service and then they send it on to A and B and C  
17 after that, is it still under control for privacy and  
18 security?

19 Another one is that people might use  
20 standards. Companies might use standards to  
21 discriminate so that they get the data and other  
22 companies don't get the data. And if they have market  
23 power, that might be something that the antitrust  
24 people would look at.

25 Question 11 is, assess the risk to



1 competition from the portability initiative. If the  
2 three biggest companies in an industry get together  
3 and set standards so they get all the data and nobody  
4 else does, then there's an antitrust risk that comes  
5 from them having all the data.

6 Question 12 is, assess the regulatory and  
7 legal consequences. Question 13 is, look at other  
8 obstacles to adoption and other costs that maybe  
9 haven't been included in the list yet. And the last  
10 one is, assess the incentives for those preventing  
11 evidence of risks of costs. There might be companies  
12 that love having the data. They're going to say  
13 portability is very, very dangerous; don't make us  
14 move the data, it's just too scary. They may be  
15 right, but you should check to see what their  
16 incentives are. Next slide, please.

17 A couple of other points. I talked to the  
18 FTC. They asked for a couple of other clarifications  
19 or distinctions that help us understand how these  
20 PORTs, these portability and other required transfers,  
21 might work. And the first distinction is whether you  
22 take action as a government before or after the  
23 violation. So one approach is to have regulation  
24 ahead of time, ex ante regulation.

25 So if you want to do that for HHS, for

1 instance, for the healthcare interoperability rules or  
2 Dodd-Frank for financial interoperability rules, you  
3 don't have to find an antitrust violation first in the  
4 healthcare sector. You don't have to find an  
5 antitrust violation first in the banking sector.  
6 Instead, you say we have enough reasons here to pass a  
7 law, to pass a policy and mandate, even though we  
8 haven't found an antitrust violation. That's ex ante,  
9 that's before the violation regulations.

10 Another approach is to think of portability  
11 as a way to use as a remedy when there is an antitrust  
12 problem. This is ex post, afterwards. So this has  
13 been -- I spoke at the ABA antitrust section a few  
14 months ago, and the antitrust lawyers in the U.S. are  
15 thinking, oh, we need a remedy. If there's a mess  
16 under antitrust laws, require portability and that way  
17 we might undo the mess.

18 And the court might order portability.  
19 There might be a negotiated consent decree. And the  
20 regulators who are tempted by these kinds of remedies  
21 say, well, breaking up the company, that's radical.  
22 Maybe just have the data move around a little bit,  
23 let's have some portability, that's less radical. So  
24 portability seems attractive because it's not as  
25 decisive an action. It's a more moderate action.

1           Okay. So that's the end of this slide on  
2 before or after the violation. Next slide, please, on  
3 general or sectoral.

4           So another distinction of the kinds of rules  
5 we have about portability is some of them are general  
6 portability rules that applies to furniture stores and  
7 drug stores and every other thing. And GDPR does that  
8 in its right to data portability, and California does  
9 that as well. It's across different business sectors.

10           But we've also seen that there's been a lot  
11 of sectoral rules. In the United States, where we're  
12 often careful about regulation, we have it for phone  
13 numbers and financial services. That's 20 percent of  
14 the economy. Healthcare, that's 20 percent of the  
15 economy. And we're seeing it pop up in other places  
16 like the auto dealer software standards. So there's  
17 different kinds of laws that go across sectors or  
18 vertical by vertical. Next slide, please. And I've  
19 just got two more slides to go.

20           So now that we've gone through this, there's  
21 some reasons to consider using this portability impact  
22 assessment. One is we have all these new laws and all  
23 these new proposals. So we'd have a regular way to  
24 look at all of them informed by what we've learned  
25 already.

1           Another reason to do the impact assessment  
2           is that most people haven't taught privacy and  
3           cybersecurity in antitrust. They've had a life that's  
4           led to lots of other good things. And so in many  
5           instances it'll be best to have a team to assess  
6           portability proposals. You want your economists and  
7           your technical engineers and your lawyers and your  
8           privacy people, your cybersecurity people, your  
9           antitrust people. If you can find people who can do  
10          all those things, then you can work through this  
11          checklist.

12           Another advantage is that the PORT-IA  
13          provides a systematic technique to assess so that  
14          regulators case after case, or company situation after  
15          situation, can be consistent. For antitrust  
16          regulators, or courts, they can realize that privacy  
17          and cybersecurity not just be offered as a pretext or  
18          an excuse. There's real issues here.

19           For people who work on privacy and  
20          cybersecurity, they can realize that consumers benefit  
21          from having greater competition. And so the benefit  
22          for users on the privacy side and the benefit for  
23          users on the competition side both are going to those  
24          individual data subjects. So that might be something  
25          to think through.

1           And then the suggestion is the private  
2   sector can assess their most promising PORT  
3   initiatives, looks like when it's going to work the  
4   best or what are the risks if they try to do it.  
5   Final slide, please.

6           So, in conclusion, for opening up data  
7   flows, for transferring data, portability of data,  
8   there can be great benefits for competition,  
9   antitrust, to have innovation, to have freedom of  
10  individual choice. These are valuable reasons to  
11  consider portability.

12           We also have strong reasons to consider  
13  closing data flows: privacy and cybersecurity. So  
14  there's benefits from opening and there's benefits  
15  from closing, and so we need, in order to come to some  
16  mature view of the situation, to look at both of  
17  those.

18           The Portability Impact Assessment provides a  
19  method that's essentially agnostic about each  
20  proposal. You don't know -- when you give me a  
21  proposal, I don't know whether it's going to have net  
22  benefits or not. So then let's work through what are  
23  the benefits and costs for this required transfer.  
24  Can we increase the benefits? Maybe we can focus  
25  transfers on where it really, really helps

1 competition. Can we reduce the costs? Maybe we can  
2 tailor privacy rules so that they're very effective  
3 over here, but when there's benefits from transfers we  
4 don't have to be as strict.

5 And so for this complex and increasingly  
6 important topic, the PORT-IA can assist policymakers,  
7 can assist companies, I hope, stakeholders, people  
8 watching today, to reach better decisions on this --  
9 better informed decisions.

10 I'll be back with you today for Panel 3, but  
11 for now I thank the FTC for holding the workshop and  
12 having an opportunity to have all these great experts  
13 from around the world gather today. Thanks very much.

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1 DATA PORTABILITY INITIATIVES IN THE EUROPEAN UNION,  
2 CALIFORNIA, AND INDIA: CASE STUDIES

3 MR. ROSCHKE: Good morning, everyone, and  
4 welcome to this, our first panel of the day of our  
5 data portability workshop. My name is Guilherme  
6 Roschke. I'm counsel for International Consumer  
7 Protection at the FTC's Office of International  
8 Affairs.

9 In this, our first panel today, we hope to  
10 set out the baseline and begin to explore three  
11 approaches to data portability. Three of our  
12 panelists are here to represent each of these  
13 approaches, and our other two panelists will also  
14 bring their expertise in how they've seen data  
15 portability in action.

16 I'll now introduce our panelists. Inge  
17 Graef is Associate Professor of Competition Law at  
18 Tilburg University. She's affiliated with the Tilburg  
19 Law and Economics Center and the Tilburg Institute for  
20 Law, Technology and Society. Inge is an expert  
21 in the areas of competition law, platform regulation  
22 and the governance of data. She is Co-chair of the  
23 Digital Clearinghouse initiative, which aims to  
24 facilitate cooperation, dialogue and exchange of  
25 insights between regulatory authorities across Europe

1 and beyond in the areas of competition, data  
2 protection and consumer law. Inge is also an  
3 appointed member of the European Commission's expert  
4 group to the EU Observatory on the Online Platform  
5 Economy.

6 Rahul Matthan is a Partner at Trilegal.  
7 He is part of the telecommunications, media and  
8 technology, or TMT, practice group of the firm. Rahul  
9 has advised on some of the largest TMT transactions in  
10 India. He has also been involved in a number of  
11 policy initiatives in the TMT space, including  
12 assisting the government in preparing the country's  
13 privacy law. Rahul is a published author and a  
14 regular speaker across the world on matters relating  
15 to emerging technology and the law. He also writes Ex  
16 Machina, a weekly column on the interface of law and  
17 technology.

18 Karolina Mojzesowicz is the Deputy Head of  
19 the unit responsible for data protection at the  
20 European Commission, Directorate-General for Justice  
21 and Consumers. She was on the European Commission's  
22 representatives in the interinstitutional negotiations  
23 with Parliament and Council on the General Data  
24 Protection Regulation, and is now responsible for its  
25 implementation in the EU.



1           Karolina previously served as a member of  
2     the EC's legal service, focusing on EU competition law  
3     and international trade law. In that capacity, she  
4     represented the EC in numerous cases before the  
5     European courts and the World Trade Organization  
6     panels and appellate body. Karolina studied law in  
7     Poland, the Netherlands and Germany, where she  
8     obtained her Ph.D. in 2001.

9           Stacey Schesser is a Supervising Deputy  
10    Attorney General for the Privacy Unit and Consumer  
11    Protection Section of the Office of the California  
12    Attorney General. Her recent matters include People  
13    v. Equifax, People v. Uber, and leading the team  
14    charged with drafting regulations for the California  
15    Consumer Privacy Act.

16           Stacey began her career at the Attorney  
17    General's Office in 2007 in its Criminal Division and  
18    has worked in the Privacy Unit since its inception in  
19    2012. Stacey received her JD from the University of  
20    California-Berkeley School of Law, where she wrote on  
21    privacy issues for the California Law Review and  
22    received a BA from Douglass College, Rutgers  
23    University.

24           Gabriella Zanzir-Fortuna is Senior Counsel  
25    for the Future of Privacy Forum, where she leads work

1 on global privacy developments and European data  
2 protection laws. She has a Ph.D. in civil law from  
3 2013, the University of Craiova, with a thesis  
4 focusing on the rights of the data subject, including  
5 the right to data portability, and an LLM on human  
6 rights.

7 Previously she served as the Legal and  
8 Policy Officer for the European Data Protection  
9 Supervisor in Brussels, where she was involved in the  
10 legislative practice of the General Data Protection  
11 Regulation, and the assessment of the EU-U.S. Privacy  
12 Shield. Gabriella is coauthor of GDPR, a Commentary,  
13 from Oxford University Press of 2020.

14 So I'll begin by asking each panelist a  
15 question for their initial contributions, and we'll  
16 move on to a more conversational Q&A later. We're  
17 also listening to audience questions via our email  
18 address, [dataportability@ftc.gov](mailto:dataportability@ftc.gov). Finally, you can  
19 also follow along on Twitter via [#datatogoftc](https://twitter.com/datatogoftc). So  
20 let's begin.

21 Karolina, the GDPR effected a broadly  
22 applicable data portability scheme over two years ago.  
23 We'll get into the experience a bit later. But for  
24 now can you explain the GDPR's data portability  
25 requirement, including what circumstances it applies

1 to who gets the data and what data; is it all of their  
2 data? Karolina, over to you.

3 MS. MOJZESOWICZ: Hello. Thank you. Thank  
4 you for having me. Indeed, the GDPR introduced a new  
5 right, a right to portability, which is related to but  
6 not equal to right of access which existed already  
7 previously, so under the previously applicable laws in  
8 the European Union.

9 Why did we want to introduce portability  
10 right concerning personal data? Well, in the European  
11 Union we made very good experiences with the use of  
12 portability. For example, in the area of the  
13 liberalization of the telecom markets, so the  
14 portability of the telephone number have proven  
15 to liberate, to open up, the consumers in order to try  
16 new alternatives than telecom operations.

17 Well, this thought led us to introduce this  
18 right in the GDPR, General Data Protection Regulation,  
19 in order to further empower the consumer in order to  
20 allow for more innovation and in order to also enable  
21 consumers to choose services also on the basis of  
22 their privacy friendliness.

23 So what our idea was is that a free consumer  
24 who does not have the sunk cost, let me call it, of  
25 the data which he/she provided to a certain business

1 controller, this consumer can take this data and move  
2 it freely to somebody else who offers him/her a  
3 service which is better from different point of views,  
4 point of view of innovation but also point of view of  
5 privacy friendliness.

6 This has the procompetitive effect for new  
7 commerce on the market for maybe also SMEs, small and  
8 medium size enterprises, and prevents the so-called  
9 locked-in consumers which already used for several  
10 years platforms, social media, and provided a lot of  
11 data.

12 Now, when does this right apply on the basis  
13 of the regulation? This right applies only if the  
14 data subject, so the individual, provided this data on  
15 the basis of the consent, so consented, the business  
16 controller to use this data, or on the basis of  
17 contract.

18 The GDPR, for all those who are maybe not so  
19 familiar with the GDPR, allows for several legal bases  
20 to process data, so the tools to use data and consent  
21 and contract to only some of them. Other legal bases  
22 are law-tasked, pursued by public administration, or  
23 also legitimate interest.

24 Well, if the data is processed by somebody  
25 on the basis of law or task of a public

1 administration, or legitimate interest, this data, the  
2 data subject of individual does not have the right to  
3 port this data. So the data can be ported only again  
4 if this data was provided by the data subject on the  
5 basis of consent or contract.

6 So this is when. Now, which kind of data  
7 can be ported? Not all of this. Obviously only  
8 personal data. And the personal data, so not  
9 anonymous data or data which is not concerning the  
10 individual who wants to use this right. Which data?  
11 Now, data provided, the regulation says very clearly  
12 it needs to be data provided to to the controller.  
13 But -- so as to the full effect to this right, the  
14 European Data Protection Board, which gathers all the  
15 European data protection authorities, the enforcers of  
16 the GDPR in Europe, specifies that this data provided  
17 by means not only data which was actively and  
18 knowingly provided by the individual to the  
19 controller, but also data which was observed by the  
20 controller, so the business, by the virtue of the use  
21 of specific service, by this individual service, which  
22 is offered by the business.

23 So what is meant here is the search history,  
24 the board in its guidelines provides also that it can  
25 be traffic data or even location data. The very

1 important difference here which needs to be done  
2 between this data actively and knowingly provided and  
3 data observed on the one hand is the difference  
4 between data inferred or derived by the data  
5 controller, by the business. And such data is being  
6 defined as data created by the data controller on the  
7 basis of the data provided by data subject, the data  
8 which is inferred or derived, so created by the data  
9 controller. Imagine it will be the profile kept or  
10 analysis made on the basis of the behavior of data  
11 subject while using certain service and the  
12 consequences of this observation, this cannot be  
13 ported.

14 So to give you a very clear delineation  
15 between which data can and cannot be ported, I would  
16 say that "provided by" included which data provided by  
17 which can be ported, is data which relates to an  
18 individual's activity or observation of individual  
19 behavior, but it is not the data which results from  
20 the subsequent analysis of such a behavior.

21 I think it's a very important difference  
22 because it attaches because it has an impact also on  
23 the intellectual property of the business who is  
24 processing the data.

25 What are the restraints to the right? So I

1 cannot port data when my exercise of the right would  
2 have an adverse effect on other individuals, on third  
3 parties. What is is meant here? If I port -- because  
4 it's sometimes difficult to confirm when would it be  
5 the case because, of course, for example in my  
6 telephone book, in my mail contacts, there are also --  
7 there is also personal data of third parties which  
8 will be then affected by my exercise of the  
9 portability right.

10 Well, again, here the delineation line, and  
11 as if a "lackmustest," when the -- when my exercise of  
12 the right would amount to somebody else being  
13 adversely affected, will be when the data which is  
14 ported will be processed by this new receiving  
15 business, by the new controller, for a purpose which  
16 has completely nothing to do with the purpose for  
17 which it was processed by the initial data controller.

18 I think I gave you as even outline of what  
19 the data portability is about in our EU understanding  
20 and how the GDPR conceived this right. But let me  
21 know if I can adhere something.

22 MR. ROSCHKE: Okay. Thank you for  
23 introducing us to the GDPR approach. We'll get to  
24 more of that in our discussion later.

25 Our next question is to Stacey in

1 California. Stacey, the CCPA includes a requirement  
2 that under certain circumstances data be portable.  
3 Can you detail the portability requirement in  
4 California, including what data it applies to and how  
5 it interacts with the right of access in the CCPA?

6 MS. SCHESSER: Good morning. Thank you so  
7 much for having me. It's really an honor to be here  
8 joined by such experts in the field on this panel.  
9 And thank you to the FTC.

10 Before I begin, I have to give a typical  
11 disclaimer that the views I share here are my own, and  
12 the Attorney General may not share these same views.

13 With that, I'm going to dive right in. The  
14 CCPA, the California Consumer Protection Act, contains  
15 one small reference to portability, and that is in  
16 Section 1798-100(d). I'm just going to read it  
17 briefly just so that people are oriented to what the  
18 statute provides. "A business that receives a  
19 verifiable consumer request from a consumer to access  
20 personal information shall promptly take steps to  
21 disclose and deliver, free of charge to the consumer,  
22 personal information required by this section.  
23 Information may be delivered by mail or  
24 electronically, and if provided electronically, the  
25 information shall be in a portable and, to the extent



1 technically feasible, readily usable format that  
2 allows the consumer to transmit information to another  
3 entity without hindrance. A business may provide  
4 personal information to a consumer at any time, but  
5 shall not be required to provide information more than  
6 twice a month in a 12-month period."

7 So there's a couple things at play there  
8 that I just wanted to walk through here as it relates  
9 to that one reference to portability. This is a  
10 significant section. It comes at the outset of the  
11 law, and it lays out the framework for access rights  
12 within the law.

13 CCPA does not prohibit collection. It only  
14 requires that there be notice at or before the point  
15 of collection. But as it relates to access rights or  
16 what we refer to as the right to know, portability is  
17 going to be balanced with verification, costs and  
18 timing. Right? So, the idea is that data can be  
19 portable if it's verified. It needs to be provided  
20 free of charge. And the timing is no more than two  
21 times a year to balance the interest of the burden on  
22 the business with the rights of the consumer.

23 What's interesting enough is that these  
24 access rates apply to presumably all data that is  
25 produced in response to a consumer request both from a

1 general description of categories down to the  
2 granular, specific pieces of information that are  
3 collected about the consumer.

4           The reference that I'm -- the point of the  
5 statute that I'm referring to is in 1798.110, where it  
6 goes through what the consumer is entitled to receive  
7 as part of this disclosure. That includes the  
8 categories, the general broad categories of personal  
9 information a business has collected about the  
10 consumer, the sources from which that -- the  
11 categories of sources from which the personal  
12 information is collected, the business or commercial  
13 purposes for collecting or selling personal  
14 information, the categories of third parties with whom  
15 the business shares personal information, and then the  
16 specific pieces of personal information it has  
17 collected about the consumer.

18           So that is all that's required to be  
19 provided in this portable format. So I can't really  
20 speak to the motivations for why portability is only  
21 mentioned once and how it's structured within the  
22 framework of the legislation. What I can infer is  
23 that there was this motivation to balance consumer  
24 protection, ownership, control of data, all reasons  
25 why we see portability as a right in other sectoral

1 laws within the United States, such as, for example,  
2 the medical privacy law, HIPAA, that's been around for  
3 a very long time.

4           What I can speak to is the regulations that  
5 take into consideration the impact of the portability  
6 of data. So when we were -- the attorney general has  
7 authority to draft regulations that operationalize the  
8 requirements of CCP for businesses and clarify how  
9 consumers can exercise their rights under the law.  
10 And so concerns about portability were really at the  
11 forefront of our minds when we were drafting the  
12 regulations.

13           One specific area in which portability  
14 impacted the rules was in the requirement that  
15 businesses not disclose any of the personal data  
16 that's set forth in 1798.81.5. These are data points  
17 that more of the classic data points. So, for  
18 example, name plus Social Security number, your  
19 account information related to your finances. So  
20 these information points are particular here because  
21 it could place the business in somewhat of a catch-22  
22 where they're required to provide the information, but  
23 it also could be triggering some of their breach  
24 obligations if that data goes into the wrong person's  
25 hands.

1           So the regulations state that you cannot  
2 disclose those actual data points, but you have to  
3 inform the consumer that that's part of what you  
4 collect in a general category sense.

5           The other area in which the regulations  
6 really address portability has to do with  
7 verification. As many people know, the CCPA did not  
8 define what is included in the verifiable consumer  
9 request. That was something that the legislature  
10 specifically charged the attorney general with  
11 figuring out -- so the verification and what  
12 principles a business has to consider before  
13 disclosing information from both the general  
14 categories all the way down to specific pieces,  
15 because verification is required for any type of  
16 request to know or right to know, is what -- is part  
17 of what a business must consider before they go and  
18 provide all of this information in a portable, usable  
19 format.

20           So considering the risk of harm and the  
21 sensitivity of information is part of what the general  
22 principles for verification lay out in our rules. We  
23 were considering things like identity theft, but also  
24 far worse, what happens when the wrong person has  
25 access to data. Complete records of specific pieces

1 of personal information could fall into the wrong  
2 hands, and then you could have something far worse  
3 than just, you know, stealing somebody's identity, but  
4 even committing great acts of harm.

5 The one small exception in the regulations  
6 has to do with businesses are not required to produce  
7 in a portable format certain data that needs specified  
8 criteria, including if the data is not searchable or  
9 not reasonably -- in a reasonably accessible format,  
10 as well if the data is used solely for legal or  
11 compliance purposes and not sold.

12 These regulations were concluded based upon  
13 public comment that we received saying that this would  
14 be a huge burden on businesses to go and search, for  
15 example, a consumer's personal address that was on the  
16 return portion of a check. So that is one example in  
17 which portability is not required.

18 From a practical standpoint, you know, we  
19 have one data point which is an attorney that works  
20 for me who has made a request, and what does that mean  
21 when he actually receives all the information?  
22 According to him, he said I got one gigabyte of files  
23 of gibberish from a large company with a hell of a lot  
24 of data about me, some photos, but mostly text or  
25 code, and it's not particularly useful for switching

1 over to another similar platform.

2 So while there is a robust right to receive  
3 your data in a portable format, I think there are lots  
4 of practical implications about how that can be  
5 consumer-friendly.

6 MR. ROSCHKE: Well, thank you for sharing  
7 your experiences, Stacey, as well as your quite  
8 detailed knowledge of the law.

9 So we'll continue our virtual journey across  
10 the globe by turning now to hearing about the  
11 developing data portability framework in India.

12 Rahul, you bring us the perspective of how  
13 India is creating data portability infrastructure  
14 outside of their privacy law, which is still in  
15 development. Can you introduce your role in this and  
16 describe the data portability infrastructure being  
17 developed in India? What is hoped to be the impact of  
18 this developing infrastructure?

19 MR. MATTHAN: Thank you, Guilherme, and  
20 thank you to the FTC for inviting me to be a part of  
21 this panel. I was just listening, you know, to the  
22 comments of GDPR and CCPA. And as you mentioned,  
23 Guilherme, we in India don't have a privacy law -- a  
24 full-blown privacy law at this point in time. It's  
25 still making its way through Parliament.

1           But I think, you know, just to set the  
2 context of what India has done, India is digitizing at  
3 a furious place. So, as you know, we're a large  
4 country with 1.3 billion people. 1.2 billion of them  
5 have a digital identity at this point in time. And  
6 that's what we call the other unique identity.

7           We also have a tremendous digital payment  
8 system. Through COVID and the lockdowns, in the last  
9 month alone our Universal Payment Interface, or UPI,  
10 did 1.6 billion transactions just in the month of  
11 August. And then we've got this -- we're rolling out  
12 this huge goods and services tax network which is a  
13 very powerful system that essentially is going to keep  
14 track of every invoice that every business exchanges  
15 between each other as part of commerce.

16           So two or three years ago, we came to the  
17 realization that even though India -- and much of  
18 India is still economically poor -- given this rate of  
19 digitization, we are going to become data rich far  
20 before we become economically rich. And there was  
21 this thought to -- you know, to try and figure out how  
22 do we leverage this particular situation to try and  
23 make it more beneficial to those in the economy who  
24 are actually not touched by the financial system.

25           And, you know, if you think about it, we

1 have 1.3 billion people. Maybe 300 million of them  
2 are on the formal banking system, which leaves a  
3 billion people untouched by the banking system.

4           And so the thought was to try and build a  
5 portability infrastructure, a digital portability  
6 infrastructure, that will allow people who are not  
7 part of the various financial, healthcare and  
8 education and other systems to leverage some of the  
9 data that is already contained about them in the  
10 system to get some benefits. And this is how the idea  
11 of DEPA, the Data Empowerment and Protection  
12 Architecture, was built. This is essentially a  
13 digital framework that allows for data portability  
14 from -- and I'll just make up some examples and you  
15 can actually apply them in all the sectors. But if  
16 you think about the financial sector, if you have --  
17 you know, in order to access -- to get a loan in  
18 India, you need to provide evidence of collateral,  
19 that is typically some real estate, some property, and  
20 a lot of people actually don't have access to that.

21           But what they do have is a rich history of  
22 transactions. And if there is some way in which we  
23 can, in a digitally secure manner, present the  
24 information of transactions that your bank account has  
25 to the potential lender, that may be the basis on



1 which the lender can give you a loan. And that was  
2 the idea behind DEPA.

3 So what DEPA does is it empowers users to  
4 port data from one financial information provider to a  
5 financial information user. And in this case, the  
6 financial information provider is your bank, the  
7 entity that has the data that it needs to provide to  
8 the financial information user, which is the lender,  
9 that would use this information in order to come to an  
10 assessment as to whether it can give you a loan or  
11 not.

12 The core of this is the creation of consent  
13 managers. And so what we've done in India is we've,  
14 in a sense, disintermediated content from this  
15 framework. And so there are consent managers built  
16 into the financial system who will manage the consent  
17 part of the portability.

18 And so, you know, once again, just to give  
19 you an example, if your lender wants to assess whether  
20 you are worthy of a loan, they will send a request  
21 through your consent manager to you. And that  
22 request, when it comes, says yes, I consent to allow  
23 my bank to provide the information that my potential  
24 lender wants from me. And once that has been  
25 digitally signed, you know, by me saying that I have

1 consented to provide this information, the information  
2 flows on the basis of that digital consent to the  
3 lender, and then the lender takes his or her decision  
4 on that and provides consent.

5           You know, there's a lot of detail in this  
6 that, you know, maybe we can get to in subsequent  
7 questions. But, you know, at the bottom of it, the  
8 consent artifact is digital, which means that encoded  
9 into the consent artifact is information about the  
10 person requesting the consent, information about the  
11 purpose for which that consent is being provided,  
12 information for -- about how long that consent or that  
13 data needs to be kept.

14           So, for instance, if it's information about  
15 a loan, there's no need for the lender to keep that  
16 information beyond the time that is required either by  
17 its internal processes or even by law to keep that  
18 information. And so the digital consent actually has  
19 coded within it information about the expiry of the  
20 data.

21           And, you know, so to add another layer, the  
22 manner in which consent can be sought is not a carte  
23 blanche. So you can't sort of turn on the spigot,  
24 look, I want all the information about the user.  
25 There are consent templates which would say that,

1 look, you can ask for certain sorts of information.  
2 One category that's prescribed is all information.  
3 And in that manner, once again, we can moderate the  
4 purposes for which you can request this portability.

5           So it's fairly early days for the system.  
6 As I said earlier, we don't have a privacy law, but  
7 the privacy law that is making its way through  
8 Parliament has provisions that would give legal  
9 sanctity to the consent manager baked in. So  
10 hopefully if it passes in the current form we will  
11 have legal statutory basis for this intermediated  
12 consent.

13           But already in the financial system we have  
14 seven licenses that have been provided to consent  
15 managers they call account aggregators. We already  
16 have two working apps for the consent managers. So  
17 two account aggregators are already live in the  
18 system.

19           And what's really interesting is that  
20 particularly through COVID we've come to the  
21 realization that, you know, we need to build out a  
22 digital health infrastructure. And there is some very  
23 active work going on as part of India's national  
24 digital health mission to roll out a similar framework  
25 for portability in health. And, you know, that

1 framework would mean if you need a second opinion you  
2 can actually make a request through a consent manager  
3 for your digital health information that's stored in  
4 some health information provider and port it to a  
5 health information user.

6 Core to all of this, of course, is the  
7 standards and the protocols based upon which this  
8 infrastructure is built. You know, essentially there  
9 isn't much in terms of heavy pipes. This is  
10 essentially a protocol-based system where the heavy  
11 lifting is actually to get the banks, the hospitals,  
12 all of the other participants in this ecosystem  
13 to actually change their systems such that they can  
14 work with the protocols that create the sharing.

15 So there's a lot to unpack. I'm going to  
16 pause there and let everyone else speak, but happy to  
17 get into the weeds in any of this in a little more  
18 detail.

19 MR. ROSCHKE: Thank you, Rahul, for the  
20 perspective. And I think we will have time to get  
21 into more of the detail.

22 Our next question is to Professor Graef.  
23 Professor, your research has addressed how data  
24 portability interacts with other legal interests  
25 beyond privacy and data protection. Can you take a

1 few minutes to introduce some of your research  
2 findings in the area of data portability, including  
3 its impact on consumers and competition?

4 MS. GRAEF: Yes, happy to do so. And thank  
5 you for the opportunity to speak here. So in these  
6 introductory remarks, I would like to focus in  
7 particular on what is the impact of data portability,  
8 but I will start by making some comments on the nature  
9 of concept because I think its nature is really a key  
10 factor that determines the impact of data portability.  
11 And these are issues that are not only of academic  
12 interest to researchers like myself, but I think they  
13 also allow us to draw some insights for future  
14 policymaking and even enforcement. So I will also try  
15 to share some of my own observations on this as well.

16 So as to the nature of data portability, in  
17 my view it is really a hybrid between various  
18 interests. So in Europe the concept originated in the  
19 GDPR, which is really a data protection instrument  
20 which aims to empower individuals to strengthen their  
21 control over personal data by allowing them to  
22 transfer data and take it with them to another  
23 service. So in this sense, data portability really  
24 fits with the fundamental rights nature of data  
25 protection because it enhances your informational

1 self-determination.

2           But at the same time, you can also  
3 characterize data portability by the sharing and reuse  
4 of data that it facilitates. And here you should  
5 keep in mind that the GDPR really serves a dual  
6 objective. So it promotes the fundamental rights to  
7 data protection on the one hand, but on the other hand  
8 it also promotes the free flow of personal data across  
9 the EU.

10           And the second objective, which is more  
11 about stimulating the EU's internal market, that  
12 objective is very much present in the right to data  
13 portability as well. And this is also what brings the  
14 concept closer to other policy areas, in particular  
15 those of competition and innovation.

16           And in Europe now you can really see this  
17 concept of data portability emerging in many areas, so  
18 from data protection to consumer law. It has also  
19 already been integrated into competition analysis in  
20 some cases, and it also forms part of broader  
21 innovation policies, for instance, in the context of  
22 the EU's data strategy which was published earlier  
23 this year. And you also see it coming up in sector-  
24 specific frameworks, for instance, in the banking  
25 sector, energy and automotive industries.

1           So this really makes it a concept with a  
2 very hybrid nature. And this hybrid nature also  
3 determines in my view what impact data portability can  
4 have on consumers and competition. And because of the  
5 various interests that's come together in this notion  
6 of data portability, there's also still questions  
7 about how tensions between these interests should be  
8 reconciled in concrete cases.

9           So one issue that deserves more clarity in  
10 my view is what I would refer to as the issue of  
11 overlapping legal entitlements over data. And this is  
12 an issue that can take different shapes. So we have  
13 already heard that personal data can relate to more  
14 than one individual. So then the question is how you  
15 can guarantee the privacy interests of the other  
16 person when you want to port your data.

17           Another example is that personal data may at  
18 the same time be protected by intellectual property  
19 rights held by the business, for instance copyrights  
20 or trade secrets. And such other legal entitlements  
21 can limit the effectiveness of data portability of  
22 course, depending on the extent to which they stand in  
23 the way of requests of individuals to have their  
24 personal data transferred to another provider.

25           And how exactly these interests and legal

1 entitlements should be balanced against each other,  
2 it's not entirely clear from the text of the GDPR  
3 itself. So these are issues that will still need to  
4 be addressed through future cases, although some  
5 guidance is already available as we heard before. But  
6 the application in concrete cases can still raise  
7 issues. And until there is more clarity on the  
8 concrete application, there is still quite some  
9 discretion also from data controllers to strike this  
10 balance themselves. And this may not always lead to  
11 desirable outcomes because data controllers could  
12 point to the existence of some of these overlapping  
13 entitlements as a sort of excuse to limit the scope of  
14 the data that should be ported.

15           And the message -- the broader message that  
16 I want to give here is that in my view the impact of  
17 data portability is not an abstract or aesthetic  
18 issue, but it is something that regulators and  
19 enforcers can really influence by guiding and steering  
20 the implementation. And this is true for how data  
21 portability interacts with privacy interests of other  
22 individuals, with the IP rights of data controllers,  
23 and it also holds, I think, for the impact of data  
24 portability on competition.

25           So then moving on to what the impact of data



1 portability on competition can be. I think it's still  
2 unclear now what effects the GDPR is having in this  
3 regard and if indeed the right to data portability is  
4 really fostering competition on the market and is  
5 really encouraging data-driven innovation, which were  
6 things that were expected as a sort of positive side  
7 effect because it would be easier with the right to  
8 data portability for individuals to switch between  
9 services if they could take their data with them.

10 But at the same time, I also now see  
11 concerns being expressed that data portability could  
12 actually strengthen the position of established  
13 players by letting users invoke the right to data  
14 portability to get even more data. And this would  
15 then lower competition because smaller firms could  
16 then see their users move to the established players  
17 with their data.

18 So one idea to make sure that data  
19 portability would really create opportunities for  
20 newcomers to innovate could be to introduce what I  
21 would call a symmetric regulation and enforcement.  
22 And what I mean with a symmetric regulation is that  
23 more powerful firms would be subject to stricter  
24 conditions. And this could then also include  
25 requirements to enable data portability.

1           And this could be done in several ways. It  
2 could happen through antitrust enforcement, for  
3 instance, by requiring merging parties to facilitate  
4 data portability as a condition to approve a merger,  
5 or by qualifying restrictions on data portability as  
6 one monopolization or in the EU as an abuse of  
7 dominance. And beyond antitrust enforcement in the  
8 EU, in fact, the European Commission is currently  
9 preparing a proposal for a new legislative instrument,  
10 the Digital Services Act, which is also expected to  
11 introduce a new ex ante regulation for so-called  
12 gatekeeping platforms. And data portability could be  
13 one of those ex ante requirements applicable to these  
14 platforms.

15           And, of course, here there are still  
16 questions about how to design such requirements, to  
17 whom they should apply, but I do believe that his idea  
18 of asymmetric regulation makes sense in an effort to  
19 increase the opportunities for smaller firms to  
20 compete and also to make markets overall more  
21 contestable.

22           And then at the same time, I think still a  
23 question is whether data portability is enough to  
24 achieve this, especially in markets where there are  
25 strong user site network effects where the value of a

1 service depends on how many others are using it; so,  
2 for instance, in a social network. Data portability  
3 cannot -- may not really address user log-in because  
4 users will still want to be where everyone else is.  
5 So even if users would move, for instance, to a new  
6 social network provider and take their data with them,  
7 they will not be able to reach the friends on the old  
8 network anymore. So data portability may not be  
9 enough to address the impact of these network effects.

10 And how data portability can affect  
11 competition in markets without network effects, I  
12 think will also depend on how actively individuals  
13 overall invoke such requests to transfer their  
14 personal data. And here I think data portability  
15 certainly helps to empower individuals in their  
16 individual relationships with the data controller.  
17 But in order for competition in the market as a whole  
18 to increase, it is not enough that just a few  
19 individuals invoke data portability.

20 So for this reason, beyond data portability  
21 under the control of individuals to address risks of  
22 market tipping, increasing market concentration data  
23 for industries, requirements for businesses to share  
24 data with other market players directly may be needed,  
25 so without being dependent on a portability request of

1 an individual, but of course taking into account  
2 privacy interests when personal data will be involved.

3 And I think this may be needed because the  
4 porting of data also creates what you can call a  
5 positive externality through the better predictions or  
6 better search results that all users will receive when  
7 an additional user brings her personal data to a new  
8 provider. But users typically don't take this benefit  
9 for other users into account when they make a request  
10 to port data. So for this reason we could expect too  
11 little data portability requests to remedy market  
12 tipping in data-drive markets.

13 So to conclude, I think in my view data  
14 portability is really a hybrid concept. It emerged as  
15 a data protection concept but is now also becoming  
16 part of policies aiming to stimulate competition and  
17 innovation. And I think to reap the full benefits of  
18 the data portability, my observation is that there is  
19 really a need to steer its implementation in practice  
20 and also to provide guidance on how businesses should  
21 handle tensions between interests and those  
22 overlapping legal entitlements.

23 So in my view data portability can certainly  
24 empower consumers to make better choices, but also  
25 more asymmetric enforcement may be needed to ensure

1 that data portability will really stimulate  
2 competition.

3 MR. ROSCHKE: Thank you, Professor Graef,  
4 for those perspectives.

5 We'll continue our tour here with a question  
6 for Gabriela. Gabriela, can you tell us about the  
7 Future of Privacy Forum's work on data portability?  
8 We've heard from India, Europe, and California. Can  
9 you provide us with a comparative view and what you're  
10 seeing and how businesses are implementing these new  
11 requirements and how consumers are using them? Is  
12 there evidence of this being a burden on businesses?

13 MS. ZANFIR-FORTUNA: Thank you very much,  
14 Guilherme, and hello, everyone. Thank you to the FTC  
15 for the invitation to be part of this expert panel and  
16 for putting together what seems like an impressive  
17 program for today's workshop.

18 The Future of Privacy Forum is a nonprofit  
19 organization that serves as a catalyst for privacy  
20 leadership and scholarship. We bring together  
21 businesses, consumers, regulators and academics to  
22 promote principled data practices by supporting  
23 emerging technologies.

24 We've been following and contributing to the  
25 debate on data portability for a long time now both in

1 the United States and Europe, and increasingly we pay  
2 attention to global development.

3 Well before my regulator experience in  
4 Brussels, in my policymaking experience in U.S., I  
5 wrote a Ph.D. thesis under EU law on the right of the  
6 data subject -- and this is how we call the individual  
7 whose data are being processed, the data subject.  
8 Data portability was the newest one of those rights,  
9 at that time having just been proposed in the GDPR  
10 bill back in 2012.

11 Thanks to that extensive legal research, I  
12 know that even if data portability is also seen as a  
13 means to facilitate competitiveness on the market and  
14 can be deemed more useful in some markets other than  
15 others, the European legal system right now recognizes  
16 portability of personal data is a right of the data  
17 subject. And this means it is a prerogative of the  
18 right to the protection of personal data as detailed  
19 by the GDPR. Underpinning it is the idea that  
20 individuals should have control over how their  
21 personal data is collected and used. And it is with  
22 this background that I will make my remarks.

23 In the first part of my intervention, I will  
24 draw your attention to three challenges to effective  
25 portability that we learned about from our work with

1 FPF stakeholders. Authentication and verification of  
2 their requesters of data -- and we already heard  
3 Stacey addressing this a bit -- the social nature of  
4 some personal data and the further uses of data by the  
5 receiving organization. And then in the second part I  
6 will make a couple of comparative remarks following  
7 what one of my copanelists had said but also referring  
8 to other developments around the world because I think  
9 we should pay attention to those as well.

10 I will start with the lessons learned from  
11 practice. And besides the reality that there are very  
12 few portability requests from individuals right now,  
13 we've seen that one key challenge is the  
14 authentication and verification of the identity of the  
15 individual making the portability request.

16 The lack of effective verification and  
17 authentication leads to data breaches, so it can pose  
18 significant risks. Think of scammers getting all your  
19 account data with one click. This is a common  
20 challenge with the right to access one's own data, but  
21 it has its additional complexities under portability,  
22 whose purpose is to make this data much easier to be  
23 used for other services, or even to be  
24 directly transferred to those new services.

25 Now, if we talk about interoperability and

1 allowing third parties to access personal data  
2 directly on the platform or from a particular service,  
3 this challenge translates into the need to verify,  
4 perhaps even vet, the third parties who are given  
5 access to data. But who should do that and how can it  
6 be done in practice?

7 Now, a second key challenge is the social  
8 nature of some personal data. And by that I mean that  
9 often one's personal data also includes personal data  
10 of others, like in photos and with conversations.  
11 This raises a couple of questions. What kind of  
12 permissions, if any, should be required for those  
13 personal data of third parties involved in a  
14 portability request, or what kind of safeguards should  
15 cover this third-party personal data? What happens if  
16 the personal data of the third party is ported to a  
17 service provider that has weaker privacy protections  
18 or weaker security in place? Should anyone have  
19 responsibility for requesting or allowing the  
20 transmission of personal data to such a service?  
21 All these are difficult questions, but they need to be  
22 solved if we want to have effective portability that  
23 does not lower the level of protection of privacy  
24 overall.

25 Finally, there is the issue of



1 further uses of the data by the organization receiving  
2 important personal data. Does the service receiving  
3 personal data as part of a portability request rely on  
4 consent? Whose consent, especially when we talk about  
5 third-party personal data? Are there any limits on  
6 how it can use data?

7           The receiving party should not be doing  
8 surprising things, right, with the personal data they  
9 are given access to. The CCPA does not really address  
10 risk. The GDPR and other frameworks inspired by it  
11 address it through purpose limitation rules and rules  
12 on having a lawful basis or processing place for any  
13 of the new processing taking place.

14           But even under those frameworks, there are  
15 other issues that appear in practice. For example,  
16 there are challenges when those rules intersect with  
17 other prescriptive sectoral stages such as the payment  
18 services that are taken in Europe, or PSD2, which  
19 might have the opposite effect of overly limiting uses  
20 of the data being accessed.

21           In fact, a couple of weeks back we held an  
22 expert roundtable, together with our partners from  
23 Vrije Universiteit Brussel, to discuss the  
24 intersection of the GDPR and PSD2, this payment  
25 services directive. One of the key objectives of the

1 PSD2 directive is to open up the banking sector and  
2 encourage participation to the payments industry of  
3 nonbanks like emerging PINTEC organizations through  
4 data sharing.

5 Now, we've learned that there are still many  
6 unresolved questions when it comes to banks sharing  
7 data with third parties. The consumer representatives  
8 that participated in the roundtable highlighted that  
9 the landscape appears complex to a regular consumer,  
10 making it difficult to allow for actual decision  
11 making about [indiscernible, brief VTC lapse] to move  
12 their data.

13 One of the biggest challenges identified was  
14 the lack of trust among the wider public to move their  
15 data across services. A particular challenge  
16 highlighted by experts was also the reuse of the data  
17 by the receiving service as the result of applying the  
18 prescriptive PSD2 rules in the GDPR framework  
19 together. For example, it was not clear to them to  
20 what extent or on what local ground using data -- with  
21 using the data that has been shared for fraud  
22 prevention would be allowed.

23 Another example of our work in this space is  
24 the panel which convened at the Computer Privacy and  
25 Data Protection conferencing process in January 2019,

1 where we explored extensive limits and benefits of  
2 portability under the GDPR. And we had a chance to  
3 get early insight into the data transfer project about  
4 which you will learn later on today in one of the  
5 following panels.

6 This is a relevant and interesting industry-  
7 led open source effort which shows that data  
8 portability can work in practice, but we've also  
9 learned about the many challenges those involved in  
10 the project had to overcome. And I remember an  
11 example that was given within that debate, and it was  
12 catalogued as a challenge of a syntactic nature. And  
13 the example used was a jaguar. So when a data set  
14 refers to a jaguar, is it a car or the animal? And  
15 this actually had consequences on whether the data  
16 should be ported or not.

17 Now, I will certainly be tuning in later to  
18 hear about the lessons learned on that project over  
19 the past three years. As for the comparative remarks  
20 that you're referring to, I would say there are two  
21 big differences between portability in the GDPR and  
22 portability in the CCPA. And we've heard a bit about  
23 them.

24 First under the GDPR, the scope of the right  
25 to portability is very nuanced. It's actually limited

1 compared to the CCPA if we refer to the scope of the  
2 personal data being transferred. And we've heard the  
3 details about that, and I think the key difference is  
4 that the GDPR does not include inferences about  
5 individuals within the scope of the right.

6 Then in the CCPA, portability follows  
7 access. It is not a separate right like in the GDPR.  
8 As the CCPA -- and we've heard Stacey -- requires all  
9 access to personal data to be given in a portable  
10 format. So then really portability follows access.

11 Before I conclude, I would just like to add  
12 that for India -- and we've heard from Rahul about the  
13 specific project on financial data, but we are also  
14 following the personal data protection field that's  
15 currently being discussed by the Indian Parliament,  
16 which includes a general right to portability and  
17 which is actually very broad because it also includes  
18 portability of profiles being created about  
19 individuals.

20 Now, in Brazil, the new general law for  
21 protection of personal data, the LGPD, which just  
22 entered into first last week, also has a broad right  
23 to data portability provided therein.

24 There's an amendment built to Singapore's  
25 general data protection law that includes a right to

1 portability which has some very interesting nuances.  
2 It tackles, for example, third-party personal data in  
3 an interesting way and limits when such data can be  
4 transferred to a third party.

5 To conclude, there are many difficulties and  
6 complicated questions to answer in order to make  
7 portability work in practice without lowering the  
8 level of protection of privacy and security, including  
9 the fact that it doesn't seem to be appealing to  
10 consumers or users or the timing.

11 However, more and more legal systems around  
12 the world recognize the ability to move the data  
13 seamlessly and securely across services as a part of  
14 new generation of rights that individuals have with  
15 regard to how their data is collected and used. Thank  
16 you.

17 MR. ROSCHKE: Thank you, Gabriella, for this  
18 overview, your initial comments in the comparative  
19 perspective and also bringing in perspectives outside  
20 of what we've considered so far.

21 I think now we'll move on to some of our  
22 follow-ups. We have a follow-up to Karolina about  
23 recently the European Commission issued a two-year  
24 report on the implementation of the GDPR, including  
25 reviewing the experiment of data portability. Can you

1 tell us more about what the review showed and what  
2 some of the next steps are being considered, including  
3 the new European strategy for data?

4 MS. MOJZESOWICZ: Thank you. Indeed. Well,  
5 to some extent what I wanted to say was already  
6 covered by the lady who was speaking before me. So,  
7 Gabriela, for example, underlined that indeed this  
8 right to data portability was not used to its full  
9 potential. And we saw that what we have seen that  
10 data -- so the individuals do not exercise it so much,  
11 they do not use it so much, and that it's so far used  
12 within sectors only.

13 Why? Mainly because of the lack of  
14 standardized machine-readable formats and clear  
15 indications as to the structure in which the data  
16 should be provided so as to port it easily from one  
17 controller to another one.

18 So this is what we have observed. We did  
19 not see a lot of complaints from individuals to data  
20 protection authorities that they are right -- that  
21 they were not able to exercise this right, and mainly  
22 probably because they were not using it that much.

23 But having said that -- and we still think  
24 that this potential of data portability needs to be  
25 further explored, and this is what we are going to

1 tackle now with the legislative instruments which  
2 we'll be following up, this communication, the paper  
3 the Commission published in February this year, and  
4 which will be following fairly quickly now, we want to  
5 use this potential of data portability also in the  
6 context which was so far not contemplated very much,  
7 but to push it into the direction of almost as much as  
8 possible real-time data portability, and also within  
9 different services. So not only from one platform to  
10 another platform and so on so as to resolve a  
11 competition problem, but so as to exploit if it means  
12 to empower the consumer.

13 And here we are in particular thinking about  
14 the possibility to use this real-time portability  
15 right in -- the real-time portability in the further  
16 development of Internet of Things devices. Yeah, so  
17 which we want to resolve by providing standards and  
18 more -- and clarifications of the structures in which  
19 data should be ported, and by designing appropriate  
20 tools by designing this standardized, as I said,  
21 formats and interfaces in order to facilitate this  
22 exercise so that this consumer put in the center of  
23 the future digital economy will be able to switch  
24 easily between different service providers, taking  
25 different consideration and different aspects into

1 consideration; also aspect of more privacy-friendly  
2 solutions, which we hope will by -- in the case of,  
3 let me call it, digital illiterate and privacy-  
4 sensitive consumers will start to -- well, work  
5 against this network effects which were mentioned  
6 before.

7           And this is what we see, that our consumers  
8 start to be in particular now in the coverage times  
9 where we moved all to more use of digital services,  
10 they start to be much more sensitive about what is  
11 going on with their data and are much more proactively  
12 looking for services which also bring them this  
13 protection which they so far did not receive, so that  
14 this will rebalance the network effects probably long-  
15 term, because indeed some operators and some service  
16 providers, big platforms, have a huge advantage in  
17 there.

18           But, yes, well, I don't want to repeat what  
19 was discussed already before. Let me just make one  
20 comment. Let's not forget that this portability  
21 right, it's exercised on the basis of the General Data  
22 Protection Regulation which actually stems from --  
23 it's there in order to exercise fundamental right.  
24 Protection of personal data, it's a fundamental right  
25 in Europe.



1           Therefore, the ideas -- I'm very skeptical  
2 as a person only about this idea about degrees of  
3 enforcement. It's a fundamental right, and the scope  
4 of the exercise of this fundamental right cannot vary  
5 dependent in front of whom it's being exercised. And  
6 this is also why the GDPR was conceived in, actually,  
7 let me call it, size independent, or size not taken  
8 into account way, and obligations and the scalability  
9 of obligations depends -- goes together not with the  
10 size of the enterprise, but with the amount of the  
11 sensitivity of data which is being processed, and the  
12 possibility of affecting the rights of individuals  
13 while this data is being processed.

14           So this responsibility of the businesses  
15 controllers, their accountability goes hand-in-hand  
16 with what they do and not how much they do of it, so  
17 that we can have enterprises which will be processing  
18 enormous amounts of data but of a very nonintrusive  
19 nature. And we can have a much smaller enterprise, I  
20 would think here about, you know, laboratories working  
21 on DNA, the strictest data protection obligations  
22 would apply. So this is a little bit of comment to  
23 what one of the previous speakers mentioned.

24           But to sum up, this is a right with a lot of  
25 possibility. We are developing on it and you will see

1 soon the results. And we think that not only it's not  
2 being exercised sufficiently, but it's not being -- so  
3 often enough, but the areas in which it can be  
4 exercised should be expanded, and in particular in  
5 this almost immediate way so one can port in the  
6 moment when one uploads. Thank you.

7 MR. ROSCHKE: Well, thank you for telling us  
8 about, you know, some of these next plans and also  
9 with some of the implications of the derivation of  
10 portability from a fundamental rights perspective.

11 You know, we only have a few minutes left in  
12 our panel, but I did want to continue to discuss and  
13 see what some of the next steps are, or potential next  
14 steps are in our jurisdictions that we're looking at.

15 Maybe we could take two or three minutes  
16 each to hear from California and India about what  
17 potential changes are coming up. Maybe we'll go to  
18 California first.

19 Stacey, can you give us some explanations of  
20 any potential changes coming in your legislative  
21 scheme?

22 MS. SCHESSER: Sure. I'll try to go as  
23 quickly as possible. The one thing I also wanted to  
24 note that we didn't touch on is that CCPA contemplates  
25 that agents can make requests, including access

1 requests on behalf of consumers. And so agents is  
2 somewhat defined by regulation. There's a requirement  
3 that there's reasonable security when data is being  
4 transferred to the agent and to the consumer from the  
5 agent, as well as a level of permission that needs to  
6 be authorized by either electronic or written  
7 signature.

8           And so that, I think, will also impact  
9 portability because people may take advantage of  
10 agents that can make requests on their behalf. That  
11 may include, for example, products or services to make  
12 those types of requests and be able to facilitate  
13 that.

14           So with respect to next steps, I think that  
15 one of the most important things is that we are  
16 enforcing CCPA. We started enforcing CCPA on day one.  
17 We have to issue a notice and cure letter for  
18 companies regarding alleged noncompliance of CCPA. We  
19 are now also enforcing the regulations as they are  
20 effective as law since August 14th, 2020. And so a  
21 violation of the regulations constitutes a violation  
22 of CCPA.

23           And what we're doing is we're looking at,  
24 you know, a variety of different sources to determine  
25 where consumers are running into roadblocks for

1 purposes of exercising their rights, as well as how  
2 companies are interpreting what their business  
3 obligations and compliance requirements are. So we  
4 review consumer complaints, we conduct our own  
5 investigations, we even look on Twitter to see what  
6 people are talking about, as well as engaging in a  
7 good deal of consumer education so that consumers  
8 understand their rights.

9           There may be additional rulemaking on our  
10 horizon that could impact this area. And then, of  
11 course, there's a ballot initiative in November which  
12 does impact how the access rights are going to be for  
13 consumers. It's not yet law; we'll know in November  
14 what the results of that are.

15           Interestingly enough, the section I referred  
16 to earlier has been somewhat moved around. There's no  
17 express reference to portability in the ballot  
18 initiative, but it is implied in terms of the fact  
19 that, you know, personal information still has to be  
20 provided in a format that's easily understandable and  
21 technically feasible, machine-readable format.  
22 So there's an implication of portability, although  
23 it's not as express as in the initial -- as in the  
24 original CCPA that's in effect now.

25           In addition to that, you know, we continue

1 to amend data protection laws with last year's  
2 amendment to the reasonable security law to include  
3 biometric information and government issued IDs. And  
4 so, again, that requires additional protections when  
5 produced in response to a request to know.

6 MR. ROSCHKE: Thank you for those  
7 perspectives.

8 Rahul, maybe two or three minutes on the  
9 next steps in India?

10 MR. MATTHAN: Sure. And, look, next steps  
11 in India, very simple. We want to get this draft  
12 privacy law through Parliament. It's currently before  
13 the Joint Parliamentary Committee. And even, you  
14 know, through this COVID time and with all the  
15 lockdowns, the Parliamentary Committee has been  
16 meeting, and so we're hoping that when things get sort  
17 of back to normal slightly we're going to have the  
18 law, after it's been looked at by the Joint  
19 Parliamentary Committee, amended perhaps, presented  
20 before Parliament and then enacted into law.

21 And at the same time, a lot of the  
22 infrastructure that I described is being built out and  
23 a lot of work that's going on there. I think, you  
24 know, just listening to everyone, as I thought that  
25 it's probably important to put the Indian portability

1 framework in a slightly different context. We talk  
2 about portability, we think about portability, we  
3 think about, you know, changing from one service  
4 provider to the other.

5           Being in the portability framework is not  
6 thinking about it from that perspective. We're  
7 looking to keep our service provider but move that  
8 information to another entity where it might be a  
9 different sort of use to us. And we do this real-  
10 time. We do this with all of -- because it's digital,  
11 we've got all of these protocols, particularly in  
12 terms of purpose limitations in terms of use and all  
13 of those things.

14           So, yeah, this is slightly different from  
15 what Europe and California are talking about, and it  
16 needs to go to a shift of perspective to understand  
17 what India is doing.

18           MR. ROSCHKE: Okay. Thank you for that  
19 perspective. I think we have time for one more short  
20 follow-up.

21           Professor Graef, what can we say about the  
22 distinction between a general approach and a sectoral  
23 approach to implementing data portability? We've  
24 heard examples of both. Are there advantages or  
25 disadvantages to each? And, please, two minutes.

1 MS. GRAEF: Yeah. So indeed we see general  
2 regimes occurring like the GDPR where the right of  
3 data portability applies across the entire economy,  
4 and at the same time there's also sector-specific  
5 frameworks being developed. So the Payment Services  
6 Directive 2, for instance, was already mentioned.

7 So I think to some extent sector-specific  
8 regulations has advantages because you can design much  
9 more concrete requirements, for instance, in terms of  
10 the infrastructure to be used or establishing common  
11 standards for portability or what other modalities  
12 should apply. But in a way this can also create  
13 spillovers to regimes of general application like the  
14 GDPR. So if you have various sectors regulated in  
15 terms of portability, this could also make the general  
16 portability in regimes like the GDPR more effective,  
17 because the infrastructure is already there, standards  
18 are being developed that may also be relevant in  
19 sectors that are not regulated yet.

20 Disadvantage of purely sector-specific  
21 regulation could be that it is not enough in the  
22 dynamic context where you also want market and  
23 services to be connected, so in the context of  
24 internet of things, for instance. So at some point  
25 you also want the sector-specific forms of portability

1 being connected with one another.

2 And I think one other issue to keep in mind  
3 is that it is logical to start from a more sector-  
4 specific approach even for implementing more general  
5 regimes like the GDPR, but you also need to take into  
6 account effects that go beyond the sector as such.

7 And then one more comment to reply to  
8 Karolina's points on the idea that I put forward for  
9 asymmetric regulation, so I should clarify that indeed  
10 I was not suggesting that the GDPR or data portability  
11 only applies to powerful players. It's indeed a  
12 fundamental right and it applies generally across the  
13 economy. But I think that data portability, because  
14 it is a hybrid concept, there is also room for other  
15 regimes like antitrust rules or new regulatory regimes  
16 that the Commission is looking at in the Digital  
17 Services Act to top up additional requirements for  
18 firms that have more market power, for instance.

19 MR. ROSCHKE: Well, thank you, Professor  
20 Graef.

21 You know, I think we've reached the end of  
22 our time here. I want to thank all of our panelists  
23 for this fantastic discussion. And I know several of  
24 you have joined from inconvenient time zones  
25 throughout the world, so thank you for that as well.



1                   We've touched on topics such as competition,  
2                   sectoral approaches, different motivations, different  
3                   advantages and disadvantages of data portability,  
4                   which we can continue talking about that for the rest  
5                   of the day. And, in fact, that's what the workshop  
6                   will do for the rest of the day.

7                   So this ends our panel here. Please join us  
8                   for Panel 2 on financial and health portability  
9                   regimes starting at 10:30 a.m. Eastern time. Thank  
10                  you.

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1 FINANCIAL AND HEALTH PORTABILITY REGIMES: CASE STUDIES

2 MS. WHITE: Good morning. Welcome to the  
3 second panel of our workshop. We'll be taking a look  
4 at some sector-specific approaches today to  
5 portability. I'm Kate White, I'm an attorney in the  
6 FTC's Division of Privacy and Identity Protection.  
7 I'm grateful to be joined today by an esteemed panel  
8 with experience in data portability in the health and  
9 financial sectors.

10 In the interest of time, I'll try to keep  
11 my introductions a little brief, but I encourage  
12 everyone to take a look at our event page to learn  
13 more about their expertise and really impressive work.

14 First, we're joined by Dr. Don Rucker, the  
15 national coordinator for health information technology  
16 at the the U.S. Department of Health and Human  
17 Services, where he leads the formulation of the  
18 federal health IT strategy and coordinates federal  
19 health IT policies, standards, programs, and  
20 investments.

21 Dr. Rucker has three decades of clinical and  
22 informatic experience. He started his informatics  
23 career at Datamedic Corporation, where he co-developed  
24 the world's first Microsoft Windows-based electronic  
25 medical record. He then spent over a decade serving

1 as chief medical officer at Siemens Healthcare USA.  
2 Dr. Rucker has also practiced emergency medicine for a  
3 variety of organizations.

4 Next we have Dan Horbatt, the chief  
5 technology officer at Particle Health. Dan's also a  
6 life-long technologist who's worked on building global  
7 scale big data systems across a number of industries.

8 We're joined today by Bill Roberts, the head  
9 of Open Banking for the Competition and Markets  
10 Authority of the United Kingdom, where he led the  
11 design of the CMA's open banking remedies and is  
12 responsible for its implementation. He's also a  
13 member of the Advisory Group on Open Finance and the  
14 Smart Data Working Group.

15 And, finally, we're joined by Professor  
16 Michael Barr, the Joan and Sanford Weill Dean of  
17 Public Policy, Frank Murphy Collegiate Professor of  
18 Public Policy, and Roy F. and Jean Humphrey Proffitt  
19 Professor of Law at the University of Michigan.

20 Professor Barr served from 2009 to 2010 as  
21 the U.S. Department of Treasury's Assistant Secretary  
22 for Financial Institutions, and was a key architect of  
23 the Dodd-Frank Wall Street Reform and Consumer  
24 Protection Act of 2010.

25 As with the last panel, I'm going to start

1 by asking each of the panelists to sort of introduce  
2 themselves and tell us a bit about their experience  
3 with data portability, and then we'll move to more  
4 conversational Q&A later. We'll try to save some time  
5 at the end for questions. So if you have a question  
6 you'd like to send, we are monitoring our email box,  
7 dataportability@ftc.gov.

8 And so I'd like to get started by asking Dr.  
9 Rucker, ONC recently finalized its interoperability  
10 and anti-blocking rules. Can you give us a little bit  
11 of background on their developments and their  
12 requirements?

13 DR. RUCKER: Sure, Kate, thank you very  
14 much. And I'd like to say I'm speaking here on behalf  
15 of Kathryn Marchesini, who just went out on maternity  
16 leave a couple days early for folks who looked at the  
17 schedule.

18 Yeah, so portability of data in health has  
19 been, you know, a desire for a long time. If you go  
20 back to the -- what is seen as the defining privacy  
21 law in the United States back into the mid-'90s,  
22 HIPAA, it actually -- you know, the P is for  
23 portability. The problem is the A is for  
24 accountability. Neither of those actually happened,  
25 as everyone knows.

1           And, so, what has actually happened is much  
2 more limited and is sort of fueled by an interesting  
3 combination of technology and policy. So I think the  
4 first substrate was, if we talk about data  
5 portability, what's really implicit in there is that  
6 it's electronic data portability as opposed to  
7 getting, let's say, a copy of your medical record in a  
8 photocopy or something along those lines.

9           So the first part really was the work over  
10 the last 20 years to have electronic medical records  
11 be widespread so there was actually data to share.  
12 Prior ONC rulemaking, now about probably eight, nine  
13 years ago -- eight years ago -- took a stab at  
14 portability, and it was really sort of portability in  
15 a sort of a very light way because that's what was  
16 available.

17           And that portability was the requirement  
18 that providers, so doctors and hospitals, in their  
19 electronic medical record products which ONC  
20 certifies, that they have a web portal, which was used  
21 by a number of patients. Roughly 20 percent of the  
22 population has used those web portals to get their  
23 information out.

24           When you look at the web portals, obviously  
25 it's -- there are some features to sort of view,

1 download and transmit the data, but what you get is  
2 something that is, you know, a rather complicated file  
3 format that one would really need to have a fair  
4 amount of tech skills and ambition to move forward.

5 So Congress, looking at all of that in 2016,  
6 passed as part of the 21st Century Cures Act -- so if  
7 you remember back to December of 2016, we'd just had a  
8 national election, and there was sort of a brief  
9 moment where, you know, there was some bipartisan  
10 ability or interest to do things. And so most of the  
11 Cures Act deals actually with data requirements for  
12 the FDA. But there is an entire title in there on  
13 interoperability and portability.

14 And what did Congress want there? When you  
15 look at that, the two key things from a data  
16 portability point of view was Congress said, first,  
17 the data shall not be subject to information blocking,  
18 and, second, there shall be standard application  
19 programming interfaces, right? And that makes total  
20 sense. So if you think about what would it take to  
21 get your data on your smartphone, right, into a form  
22 factor that's actionable for the public, I mean, that  
23 sort of pretty much these days means a smartphone.

24 In that -- to get that data in there, you  
25 have to be able to get the data both legally and

1 technically. The legal issues, the so-called  
2 information blocking, is just unfortunately a  
3 reflection that in the U.S., because we don't have a  
4 market economy, we don't have a rational allocation of  
5 healthcare through market-set prices, it's all done by  
6 third parties where we've commingled equity issues but  
7 have lost efficiency in a massively harmful-to-the-  
8 economy type of way.

9           In our system, what we have between the 1942  
10 rules on making health insurance a pre-tax benefit and  
11 then Hill Burton cross-subsidization '46, and the  
12 administrative prices in '65, the Medicare Act, we  
13 really have -- that soup has ended up with a lot of  
14 oligopoly delivery systems whose main economic  
15 incentive has actually become so large that they're  
16 price set is to payers as opposed to being really  
17 interested in sharing the data the way that somebody  
18 who's in a consumer competitive marketplace would have  
19 had to.

20           So Congress said, no, that is now illegal as  
21 of the law, and also said there shall be application  
22 programming interfaces with -- as Congress put it,  
23 "without special effort." What did that all mean for  
24 data portability? Well, ONC has just released a  
25 couple of months ago our Cures Act interoperability

1 rule. And we were required to have some allowable  
2 exceptions, information blocking for things like  
3 security and privacy. There's some complicated things  
4 in that on having reasonable returns on investment to  
5 the various activities of building application  
6 programming interfaces. You know, the challenge is  
7 the Congressional intent to have an API can be blocked  
8 by just setting the price to be infinitely high. So  
9 without having some mechanism to have accountability  
10 on prices, you don't have interoperability either.  
11 And, of course, most of this healthcare is ultimately  
12 paid for by taxpayers, so there was a huge public  
13 interest in all of this.

14 So the information blocking rules are now  
15 out there to provide the legal basis to get the data.  
16 The other part of it is, are there technical  
17 standards? So rather than each vendor being in a  
18 position to have their own private APIs to release  
19 this data, they can still have their own APIs, and  
20 most of them do for a wide variety of business  
21 purposes.

22 We have in our rulemaking required read --  
23 at the moment read-only APIs so the data can come out.  
24 There's a two- to three-year timetable that involves  
25 data standards. It involves moving to a technology



1 called RESTful APIs, R-E-S-T, which is the way the  
2 modern internet web economy tools work, and then the  
3 FHIR standards in healthcare to move that data, so  
4 standardized data tools that the app economy can use,  
5 and we believe that that will actually result in, over  
6 time, in a wide variety of apps and a true ability for  
7 patients to have economic control of their health; to  
8 take their data and to move it somewhere else if  
9 they're not happy.

10 So we think that is a major, major advance  
11 in data portability in healthcare. It's playing out  
12 over the next couple of years, so stay tuned. So,  
13 Kate, let me turn it back to you.

14 MS. WHITE: Thanks for that.

15 Dan, I know you're familiar with these  
16 rules. Could you tell us a little bit about your  
17 company, Particle Health, and how these rules are  
18 affecting, you know, your industry and consumers?

19 MR. HORBATT: Absolutely. Thank you, Kate.  
20 So I just want to start off and say that Mr. Rucker is  
21 a hard act to follow. He has touched on a lot of the  
22 points that I was going to bring up, so I appreciate  
23 the intro there. But this is very much a personal  
24 mission for myself.

25 In 2017, I had a chronic medical condition,

1 and unfortunately I was hospitalized when I stopped  
2 responding to the medication and treatment I was on.  
3 As part of that hospitalization, I was unable to  
4 collect medical records from a previous specialist  
5 team to give them to my current specialist team in a  
6 timely enough fashion, and I had to go through a bunch  
7 of unpleasant testing to confirm everything that I  
8 already knew, but I didn't have the papers or  
9 electronic documents to actually prove to anyone.

10 So as part of that, I realized that this was  
11 a mission that I could get behind and a change I  
12 wanted to see in the world, and so I helped co-found  
13 Particle Health in early 2018 with my co-founder, Troy  
14 Bannister.

15 And, so, the mission that we're looking to  
16 accomplish here is we want to build out a very  
17 patient-centric process to enable the distribution and  
18 sharing of electronic medical records. As Mr. Rucker  
19 mentioned, the P in HIPAA is for portability, not for  
20 privacy, and you have a number of rights under HIPAA.

21 You have the right to access your medical  
22 records. You have a right to share them with  
23 authorized third parties. You have the right to make  
24 corrections. You have the right to revoke the consent  
25 of sharing at any point. But it's one of those things

1 where it's very hard to actually exercise those  
2 rights, and the harder it is to exercise the rights,  
3 the less likely you are to really have those rights.

4 And so that's what we're looking to spin up.  
5 We're looking to act as the stewards of consent on  
6 behalf of patients and, using that consent being able  
7 to collect their medical records, no matter where they  
8 may be, and provide them to either the patient  
9 themselves or to authorized third-party companies that  
10 they interface with.

11 So, for instance, if they're looking to  
12 onboard into a telemedicine application, they're  
13 looking to participate in a direct consumer pharmacy,  
14 if they're engaging with a care coordination platform,  
15 we want to be able to bring the patient's rich medical  
16 history with them such that they get treated faster  
17 and more reliably than what they might currently have.

18 And, yeah, so just to reiterate a lot of  
19 what was said already, it's great that we're  
20 addressing this from both the policy and the  
21 technology landscape, from the policy side of things,  
22 the anti-information blocking. We already know that  
23 it's possible to share these electronic medical  
24 records right now for purposes of use, including  
25 treatment, payment and operations, as carved out by

1 the HIPAA privacy rule. But beyond that, like, we're  
2 looking at making sure that we're able to collect  
3 electronic medical records with patient consent as  
4 well, so making sure that patients who would typically  
5 have to fax a form or provide a somewhat blank filled  
6 out HIPAA authorization form can now do so in  
7 electronic fashion, making it easier for them, making  
8 sure they know how to actually follow up, see who has  
9 their consent, making sure that they know how to  
10 revoke that consent at a certain point in the future  
11 if they no longer have a business relationship with  
12 whomever, and as well from the technology standpoint.

13 So TEFCA standardizing on the Fast  
14 Healthcare Interoperability Resource, FHIR, making it  
15 very easy for app makers, for companies, vendors, IT  
16 providers to use very robust open-source libraries to  
17 work with this data and transfer it and utilize it in  
18 a number of ways, all resulting in better patient  
19 outcomes. So exciting times ahead.

20 MS. WHITE: Definitely.

21 So, Bill, now that we've talked a little bit  
22 about the U.S. healthcare experience with data  
23 portability, I'd like to shift gears and talk about  
24 the financial sector a bit.

25 Can you tell us a bit about the UK's open

1 banking rules and why they were created and how they  
2 work?

3 MR. ROBERTS: Okay. Well, let me start by  
4 defining what we mean by open banking or what some  
5 people these days are calling consumer-directed  
6 banking, I think. So by open banking, we're referring  
7 to an ecosystem in which consumer or small businesses  
8 can, first of all, instruct a bank to share their  
9 transaction data securely with a third party, and, B,  
10 instruct a third party to move money around in and out  
11 of that bank account. So open banking allows  
12 consumers to take control of their own bank data.

13 I just had a further qualification here,  
14 which is that we include in the definition of open  
15 banking the requirement that APIs rather than screen  
16 scraping is used to access that data. It's a much  
17 more secure process for both the customers and its  
18 provider alike.

19 So, second, why do we adopt it? Well, the  
20 CMA carried out a market investigation which reported  
21 in 2016, and that had taken two years, and it found  
22 pretty much the same as every other investigation into  
23 banking had found over the previous 20 years, which  
24 was that the market was dominated by four big banks  
25 who between them had over 80 percent of the market.

1           People didn't switch banks even though they  
2 were dissatisfied with their services, with service  
3 quality. Banks charged a lot for overdrafts, short-  
4 term credit, and the sector wasn't really  
5 characterized by innovation at all. New entry and  
6 expansion is rare, as small businesses got a  
7 particularly raw deal and had limited choices about  
8 where they could find money.

9           So to tackle those problems, we adopted a  
10 package of measures, but the center of which was open  
11 banking. That was supposed to breathe fresh rivalry  
12 into the whole sector to get existing banks to compete  
13 more vigorously with each other and, in particular, to  
14 allow the entry and expansion of new firms -- fintechs  
15 basically -- who would not be banks but would offer  
16 banking services. That was the objection -- the  
17 objective at the time.

18           Now, at that time, by coincidence, we were  
19 implementing the EU's snappily titled Second Payment  
20 Services Directive, PSD2, and that kind of required  
21 some of the same things. It required data sharing  
22 between payment services, but it didn't specify the  
23 use of common standards for APIs. And that was the  
24 big difference with what we did in the UK.

25           What we said in the UK was we agreed

1 absolutely that APIs should be used to share data, not  
2 screen scraping, but if each bank could design and  
3 implement its own API, then life would be very  
4 difficult certainly for small developers. Bad enough  
5 trying to produce a mobile application for three or  
6 four mobile platforms. But if each bank -- and there  
7 are hundreds of banks in Europe. If each bank had its  
8 own APIs, then you would have to make versions for all  
9 of them or you'd have to rely on intermediary services  
10 to connect you. That's exactly what's happened in  
11 continental Europe now, whereas it hasn't happened in  
12 the UK.

13 So we required the -- not all of the banks,  
14 we didn't have the powers to do that, but we did have  
15 the powers to require the nine largest banks in the UK  
16 to agree -- agree to common and open standards for  
17 APIs, data formats and security. And though we'd  
18 never done anything like this before, and because we  
19 weren't in a position at the end of the inquiry to  
20 specify exactly what those standards should be, we had  
21 to figure out some way of evolving them with the  
22 industry but in such a way that the stakeholders'  
23 interests were met, too.

24 So we did something that we hadn't done  
25 before, which was that we required -- because the CMA

1 has awesome legal powers, and we used them to require  
2 the banks to make their best endeavors to reach an  
3 agreement over these standards. But because no matter  
4 how awesome your powers are, you can't compel the two  
5 people to agree with each other because they can  
6 always blame the other person for the lack of  
7 consensus, we created what we called an implementation  
8 trustee, and this person would act as the chair of the  
9 group which would discuss these issues, but he or she  
10 would have the power at the end of the day to say,  
11 well, I heard what everybody said, there's no  
12 agreement here, so I'm going to decide this for you.  
13 And we had never done that before. I think it was  
14 quite unusual amongst regulators to impose or  
15 delegate, almost, rules to a third party.

16 Can you still hear me?

17 MS. WHITE: Yes, we can hear you.

18 MR. ROBERTS: Can -- you can hear me? Okay,  
19 sorry. Something strange has happened to my computer.  
20 Okay, I'll carry on.

21 So how is all this supposed to help  
22 consumers? We envisage that the open banking would  
23 allow in new people with new -- who would be able to  
24 offer new services. We weren't sure, again, exactly  
25 what they would be, but we could see what a



1 liberalization of the market could bring about.

2           Just as an aside, I'll say that at the time  
3 we were asked why, if we wanted to get open banking  
4 started, we wouldn't run a campaign to promote open  
5 banking. We said we didn't think that would work  
6 because that would be kind of like promoting  
7 electricity in the 19th Century. I mean, you're  
8 trying to -- it's a struggle to describe what it was,  
9 really, as most people wouldn't understand open  
10 banking.

11           And in the course of describing what it was,  
12 people would eventually say, well, do you mean it  
13 could actually kill me? There were risks involved.  
14 So we said, no, we wouldn't do that. So that was the  
15 third kind of unusual thing in this remedy that we  
16 didn't specify exactly what the applications were  
17 going to be. We just said we can see some examples of  
18 things that we think would be great, and we picked  
19 occasionally.

20           The first was sweeping services. These are  
21 services which would -- basically, if you had too much  
22 cash in your checking account at the beginning of the  
23 month, it would take that money -- the app would take  
24 some money out of your account and put it on deposit  
25 and guarantee you would get a better rate than your

1 bank is giving you.

2           If you were running a bit into the red at  
3 the end of the month, then rather relying on the bank  
4 overdraft, the app would pay money into your account  
5 and guarantee they would charge you less than your  
6 bank would charge you. And all of this would be  
7 hands-free. You would need to do nothing. This would  
8 take over the management of moving your money about.  
9 And that would be a very big threat to the banks in  
10 the UK because the most profitable customers are those  
11 who leave large balances in their current account and  
12 who run up big overdrafts. So that would be very  
13 important.

14           And there are a whole raft of other examples  
15 that we can see particularly for customers who you  
16 could describe as challenged in some way or  
17 vulnerable. That's been a very fruitful area of app  
18 development.

19           So just briefly, where we got to two years  
20 in, two years after the first API traffic started?  
21 Well, in the first -- in July 2018, which was the  
22 first quarter when all the banks had the APIs running,  
23 API call volumes in the month of July 2016 were about  
24 two million. In August this year, they were 450  
25 million. We're cumulatively now up to about nearly 5

1 billion, 5 billion API calls, and the number of active  
2 users of open banking has gone through the million  
3 mark. It's approaching one and a half. It's going up  
4 toward -- in the direction of two.

5           And adoption has been very, very strong in  
6 the SME section. SME is just to say adopted mobile  
7 phones first, fax machines first, everything else  
8 first. Yeah, they've adopted Open Banking first  
9 because it integrates beautifully with their cloud-  
10 based accounting systems.

11           All the major banks have introduced Open  
12 Banking apps. All of the banks -- all the remaining  
13 banks, including the challenger banks, they've done  
14 the same. They weren't compelled to, but they have  
15 done the same because it allows them to comply with  
16 PSD2 and the software is free, so they found out.

17           And we have, I think, 700 providers of Open  
18 Banking services now enrolled under the banking  
19 implementation entity. So there's a huge amount of  
20 activity that's taken place. And today we have not  
21 had one material security event. No data has gone  
22 astray as a result of open banking.

23           So the jobs aren't finished yet.  
24 Implementation should be completed next year, and  
25 people are considering whether there's a read across

1 from open banking to open finance and then to other  
2 areas, which I think is something I don't think you  
3 are interested in. So we're not quite there yet.  
4 Implementation should be finished next year. It's  
5 something that, oddly enough, the UK has led the world  
6 in. I'll stop there.

7 MS. WHITE: Thanks.

8 So, Professor Barr, here in the U.S. we  
9 don't currently have an open banking requirement like  
10 in the UK. But can you give us a little background on  
11 any efforts in the U.S. to require or encourage  
12 portability of financial data?

13 MR. BARR: Sure, Kate. And thanks for  
14 putting this terrific panel together. As you said,  
15 the U.S. is really quite far behind on this measure.  
16 I think it's important to start with thinking about  
17 why we want open banking or portability in finance.

18 One of the most important things is that  
19 these kinds of measures can help empower consumers to  
20 have better control over their own financial lives.  
21 We're trying to empower consumers so they can take  
22 better control, make better decisions, better access  
23 their finances, and that will help them get ahead in  
24 life and spend more time doing things that they care  
25 about, taking care of their family and the like.

1           A second major reason we want portability or  
2 open banking is to enhance competition. And greater  
3 competition can help drive down costs and improve  
4 services. As Bill mentioned, there's a lot of profit,  
5 for example, to be made by banks in contingent fees,  
6 overdraft fees, insufficient fund fees, and other kind  
7 of "gotcha" fees. And it turns out, as Bill said,  
8 that consumers don't really switch bank accounts. And  
9 one of the reasons they don't is because it's hard to  
10 do.

11           And I think if you had better competition in  
12 financial services, it would reduce the ability of  
13 financial services firms to have these high-cost  
14 contingent fees. It will improve the ability of the  
15 incentives on banks and nonbanks alike to provide  
16 better financial services. So that's the basic frame  
17 of why we care about these issues.

18           In the United States today, we don't really  
19 have a coherent framework for dealing with these  
20 issues. There's screen scraping going on. There are  
21 private contracts on a bilateral basis for direct data  
22 feeds. But there's no coherent policy framework.  
23 There's fragmentation in the market. There's no real  
24 interoperability.

25           The private sector is beginning to get

1 together to try and come up with standards, but  
2 there's no government policy framework that requires  
3 them to do that and no kind of guiding hand to that  
4 effort to get them to reach agreement. And there's  
5 significant reasons why banks and other providers  
6 don't want to necessarily reach agreement on  
7 interoperability or portability, and that's hampered  
8 the development of this area.

9           There are no common rules about security  
10 protocols. There's a patchwork of privacy laws in the  
11 United States that affect this sector. And even in  
12 finance and banking, per se, the Gramm-Leach-Bliley  
13 Act privacy protections are quite weak. Decent  
14 protections on liability allocation for security  
15 breaches, but even there there's significant holes in  
16 that framework.

17           So our basic, you know, framework in the  
18 U.S. on liability allocation, on privacy, on security,  
19 on interoperability, on open banking, we lack a  
20 coherent, strong framework, and that's really left us  
21 behind and hurt consumers and small businesses a great  
22 deal.

23           When you look around the world, it's not  
24 just the UK we're really far behind. The UK Open  
25 Banking system is terrific, but there's been progress

1 in many countries around the world. Singapore's made  
2 huge advances in this space; India has made  
3 significant advances through their IndiaStack program;  
4 if you look at what's going on in Australia. More  
5 recently, California has its own new privacy rules,  
6 sort of a California version of the GDPR. But we at  
7 the federal level lack that coherent framework.

8           There is the ability to take action here  
9 under existing law to at least begin to shape up a  
10 regime that makes more sense for the United States,  
11 and it's from a provision that I worked on when I was  
12 in the Obama Administration. Section 1033 of the  
13 Dodd-Frank Act provides the authority to the Consumer  
14 Financial Protection Bureau to write rules  
15 implementing a consumer's right to access their own  
16 information.

17           And when we were developing this proposal in  
18 2009, it ended up getting enacted in 2010, so 10 years  
19 ago, the whole point was to give consumers access to  
20 their own information in a form that they could then  
21 share with third-party providers so that they could  
22 get better control over their own lives and make  
23 better choices about what products and services made  
24 sense to them.

25           That provision has not been enacted with

1 rules. It's a self-executing provision with respect  
2 to the right. Consumers have that right, but there  
3 are no rules that have been written under it to  
4 actually effectuate that. And that's led to this  
5 incredible hodgepodge of activity I described before.

6 So I think we could start right away in the  
7 United States by having this Consumer Financial  
8 Protection Bureau implement rules so that 1033 is not  
9 just a principle; that it actually lets consumers get  
10 access to their data, lets them share it safely and  
11 securely with third parties, and lets those third  
12 parties use them to provide better services to  
13 consumers. I think that will enhance competition, it  
14 will enhance consumer autonomy, and we can get started  
15 right away under existing law.

16 MS. WHITE: Thank you.

17 So, Bill and Dr. Rucker, I know that your  
18 organizations have spent years getting your respective  
19 requirements implemented. I was wondering if you  
20 could tell us what aspects of that process were the  
21 easiest and what were the biggest challenges.

22 Can we start with you, Bill?

23 MR. ROBERTS: Yeah. Well, the easiest is  
24 easy. Having spent a long time designing the process  
25 so that we could minimize the conflict between the



1 parties over the agreement of the standards, that was  
2 actually the easiest part of the entire process, that  
3 very quickly consensus emerged on the standards,  
4 because there are international standards for these  
5 things. So if the standards -- the international  
6 standards that we adopted for APIs were the FAPI  
7 standards, the financial API standards. We adopted  
8 OAuth 2.0 and ID Connect for security and for  
9 authentication purposes. So that was easy,  
10 unexpectedly easy, the technical side of things.

11 The more difficult side, the bit that caused  
12 us the problems, was to do with those areas where we  
13 kind of left the decision for the bank, where we left  
14 it in a competitive space, if you want, for what they  
15 were to do.

16 So, for example, the authentication journey,  
17 this is the process whereby you are sitting down, you  
18 are talking to a personal financial management app,  
19 and you tell the app that you want it to take a look  
20 at your bank data. So it sends you off to your bank,  
21 and you say to your bank, I wish to authorize this  
22 intermediary to take a look at my bank data. This is  
23 happening in a fraction of a second.

24 And then your bank will put you into a  
25 process where you go through maybe 14 click-throughs,

1 you get a one-time password texted to you by somebody  
2 or you get a call from a call center who wants to know  
3 what the maiden name of your last dog was, and there  
4 are a lot of obstacles that seem to be put in there,  
5 to find their way into the process there.

6 We probably wasted -- probably the last six  
7 months on that process before we realized that, yeah,  
8 you need to have a secure process, but security  
9 doesn't always imply friction. So we basically began  
10 looking for another authentication journey, which were  
11 frictionist but secure, and we found it in basically  
12 mobile apps whereby you authenticated yourself  
13 biometrically rather than passwords; your secret  
14 questions or whatever. And that worked tremendously  
15 well when we switched to biometric authentication.

16 One provider's response rates, or the  
17 abandonment rate of authentication, just disappeared  
18 and shot up through the roof. So we were expecting  
19 difficulties with a technology. They did not emerge.  
20 We weren't expecting difficulties over authentication,  
21 and whether by accident or design, they did, and it  
22 took us a little while to sort them out. But they are  
23 now sorted out.

24 MS. WHITE: Thank you.

25 Dr. Rucker? Dr. Rucker, I think you're on

1     mute.

2                     DR. RUCKER:  Sorry.  Once the Cures Act was  
3     in place, I think, you know, the two big things that  
4     took us actually a couple of years in rule writing,  
5     besides the whole U.S. rule writing clearance process,  
6     which you may be familiar with for folks who are  
7     students of how regulation is done in the U.S., I  
8     think there was sort of one area that was a bit more  
9     inside ball game and then one that played out  
10    publicly.

11                    The inside ball game was really in the  
12    information blocking.  As I mentioned, you can set an  
13    infinite price for an API.  So how do you balance the  
14    costs of the API?  And where we came down is that the  
15    use of the APIs, so an application program interface  
16    to get the data from your doctor or your hospital's  
17    medical EMR product, electronic medical record,  
18    electronic health record, that was free to the patient  
19    -- free, of course, actually being as with many other  
20    federal rules, it's part of the provision of care --  
21    it's not free; it's just bundled into the provision of  
22    care.

23                    Then came the delicate thing that the  
24    providers needed to then buy software to provide these  
25    application programming interfaces.  And, you know,

1 they would provide that from their electronic health  
2 record vendors who then had incumbent status on the  
3 provision of that so that the -- and there have been  
4 various behaviors of some of the EHR vendors that were  
5 problematic.

6 And so we had to put in sort of, you know,  
7 costs reasonably incurred and some considerations  
8 around that so that the providers had a chance to get  
9 these application programs and interfaces, something  
10 that reflected reasonable costs, reasonable profit  
11 margins. And, conversely, the electronic medical  
12 record vendors also need incentives to build software  
13 and to build APIs.

14 So that balancing was a very complicated,  
15 heavily lobbying activity. And I'm proud, I think we  
16 have a reasonable pro-public balance that respects  
17 everybody's interests and moves the country forward  
18 there.

19 The other area that obviously the FTC has  
20 also been involved in is the whole issue of privacy,  
21 right? We don't have, as has been pointed out in your  
22 prior session, you know, we don't have sort of the  
23 GDPR kind of equivalent in the U.S., and so what are  
24 the privacy protections for third parties as patients  
25 move the data?

1           In HIPAA law, while there are many ways that  
2 providers can share data with payers, analytic firms,  
3 claims clearinghouses, all kinds of other entities  
4 that are part of what you sign when you just go to a  
5 doctor's office, if you will, what we're talking about  
6 here is the patients' individual right of access. And  
7 so once they have that data, they are in ownership of  
8 their version of the data and can do with it whatever  
9 they want. There's no further provider obligation.  
10 So arguably you can have an evil app, and that evil  
11 app could then, you know, do bad things with the --  
12 with your private medical data.

13           So putting in a number of protections there,  
14 working with the FTC to have it sync up with the  
15 unfair business practices that the FTC has enforced on  
16 other internet properties, and allowing the providers  
17 to make that very clear, those efforts took a lot of  
18 time to get a good balance there. So that was the  
19 external part.

20           MS. WHITE: Thanks.

21           Dan, what have been the biggest challenges  
22 for companies when they're trying to implement the ONC  
23 rules?

24           MR. HORBATT: Similar to what Bill and Dr.  
25 Rucker were mentioning before, a lot of it comes down

1 to authentication and identity management of the  
2 patients as well as the vendors who are holding their  
3 data.

4 In a lot of these situations, these are very  
5 much trust-based ecosystems where you have a number of  
6 different disparate parties sharing data amongst  
7 themselves, and so it's important that there's a  
8 framework in place such that Company A can specify,  
9 hey, I have credentialed this patient, this is their  
10 identity, and passing that along with any requests for  
11 any information to Company B.

12 And as part of this, having federally  
13 mandated levels of assurance of that identity, it is  
14 important and is really critical to ensuring that this  
15 trust network is able to be stood up and utilized.  
16 And so without that, everything more or less entirely  
17 falls apart.

18 So with it, mostly it seems to be getting  
19 along the lines of identity assurance level two, which  
20 is, I believe, an NIST standard, is the de facto  
21 standard right now and what we're trying to push  
22 everything to and what we're trying to coordinate on  
23 across the industry.

24 So as part of this -- sorry, I lost my train  
25 of thought there for a second. But, yeah, identity is

1 important here because medical data is one of the most  
2 sensitive pieces of information about a person. And  
3 it's not just relegated to just you as the individual.  
4 If there's a genomics component to it as well, this  
5 extends to anybody who's directly related to you as  
6 well.

7           So being able to know for sure that when  
8 I ask for John Smith at 123 Main Street, date of birth  
9 -- given date of birth, that I'm getting the right  
10 person's records and that there's no possibility of  
11 getting somebody else's records, especially if we're  
12 handing it off to a third party on behalf of that  
13 patient who is not necessarily a covered entity and  
14 has not as many obligations under the HIPAA privacy  
15 rule to actually maintain the sanctity of this data,  
16 is hugely important and something that we're thinking  
17 about quite often.

18           And the other aspect of things is the actual  
19 quality of the data itself. When moving to electronic  
20 medical records, there still is a lot of wiggle room  
21 around how that data is represented. There are  
22 different coding systems for the same conditions,  
23 different names for medications that need to get  
24 reconciled, even just different units of measure that  
25 are used across.

1           And being able to take all this information  
2 from various source systems and combining it into one  
3 view of a patient that can be easily reconciled at  
4 whoever's providing the treatment at that particular  
5 moment is also critically important.

6           And with the latest changes to push  
7 everything to FHIR, we're moving very much in the  
8 right direction where we've standardized a lot of  
9 these things, although there are still a lot of these  
10 edge cases and points of expensability that are  
11 resulting in discrepancies between the various source  
12 systems that are slowly getting reconciled.

13           So it's definitely going in the right  
14 direction. We're definitely seeing a lot better  
15 standards getting pushed out. And thankfully FHIR,  
16 the Fast Healthcare Interoperability Resource,  
17 is getting pushed globally. A lot of different other  
18 countries are using it a lot. I know that they're  
19 using it a bunch over at the NHS and other countries  
20 as well.

21           So we're getting to the point where  
22 interoperability isn't just a U.S. concern. It's  
23 going to be just a worldwide concern as well. And  
24 we're slowly but surely getting there to a point where  
25 we're able to speak the same language of data across



1 the various institutions and eventually across  
2 different countries as well.

3 MS. WHITE: So you say we're slowly getting  
4 there. Is there anything that can be done to help get  
5 there faster?

6 MR. HORBATT: I mean, I think we're doing  
7 everything that we can right now. Specifying specific  
8 versions of these standards to use, like, I believe  
9 TEFCA is specifying FHIR version R4, is great. And  
10 once the industry gets comfortable with that, we can  
11 continue to make iterative progress on standardizing  
12 further and further along those lines.

13 So you've got to start somewhere. We've had  
14 great success with HL7v2, moving to the clinical  
15 document architecture now to FHIR, all of it steps in  
16 the right direction. And I'm sure that we will  
17 continue to make progress along there as well. It's  
18 just unfortunately a matter of time. Nothing changes  
19 overnight. And we're discovering all sorts of new  
20 problems and edge cases with everything that we  
21 introduce, just the nature of progress.

22 MS. WHITE: Dr. Rucker, have you heard a lot  
23 of these -- about these sort of authentication  
24 challenges, and have you guys at ONC been giving  
25 thought to ways to help with solutions?

1 DR. RUCKER: Yeah. I mean, I think  
2 everybody who has data and, frankly, everybody who's  
3 on the internet, anyway, even if it's for advertising  
4 purposes, you know, wants to identify individuals for  
5 any number of business reasons.

6 Obviously, as Dan pointed out, in  
7 healthcare, robust authentication is pretty critical  
8 to doing it. I'm an optimist that the market is  
9 actually going to take care of these things, see. The  
10 combinations of the technologies and the richness and  
11 the ability to corroborate data sources is really  
12 advancing at an extraordinary rate.

13 In healthcare, there are a number of people  
14 who have advocated the government should have, you  
15 know, another government identification number, right,  
16 on top of the Social Security number, or your driver's  
17 license number or your Medicare number. All of those  
18 numbers tend to have some very deep issues, too long  
19 to go into here, but have some deep issues.

20 What we're finding is, as people do the  
21 richness of data, that the authentication becomes  
22 quite good. So for example, Surescripts, who manages  
23 almost all of the electronic prescribing of  
24 prescriptions in the United States, right, so they  
25 have a big authentication issue that they have to

1 solve. They do it with a combination of technologies.  
2 So some of that is just matching, you know, age, zip  
3 code, what is a demographic match. But they actually  
4 build up reference databases underneath, so they sort  
5 of know who moves with whom, when households move, who  
6 are family members, who are twins, so a number of  
7 these things.

8           So the net of that is they're getting  
9 extraordinary high match rates when you do that, and  
10 that's one entity. But if you look at all credit  
11 bureaus, claims, clearinghouses, a whole number of  
12 other players in healthcare and, frankly, in the  
13 financial service industry, are quite good at  
14 authentication. The apps that can visibly  
15 authenticate you when you deposit a check on your  
16 smartphone, we've had discussions with some of those  
17 vendors, and they tell us they're authenticating based  
18 on up to 5,000 data points, right? So that's the  
19 profile. On your smartphone, they can't just be  
20 spoofed away by getting the smartphone's electronic  
21 identity and somebody who's in cahoots with somebody  
22 at the cellular phone vendor.

23           So there are all kinds of authentication  
24 technologies. They're moving very, very rapidly. So  
25 I think this is a problem that will eventually lead

1 us, as Bill pointed out, to much higher levels of  
2 consumer convenience and power of these opening rules.

3 MS. WHITE: Professor Barr, are there  
4 similar concerns about authentication in the financial  
5 sector, and are there any -- is there anything that  
6 could be done to address the concerns there?

7 MR. BARR: There are always concerns about  
8 authentication. There are concerns in terms of  
9 limiting the potential for fraud. There are problems  
10 today with the creation of synthetic identities.

11 And beyond the issue of fraud or abuse in  
12 the system, the current methods we use to authenticate  
13 identity can impose very high costs on the financial  
14 sector and on consumers, and that tends to limit  
15 access to the financial system, oftentimes for those  
16 who need it the most.

17 So low-income consumers, immigrants, those  
18 who are sending money abroad or receiving money from  
19 abroad, the authentication costs in the system cut off  
20 access for all kinds of people who are quite low-risk  
21 for things like fraud or money laundering or terrorist  
22 financing.

23 So our rules for authentication are not very  
24 good at catching bad guys and are particularly good at  
25 imposing costs on the system that limit access. So

1 there's enormous progress we could make on this.

2 I agree with Dr. Rucker that there's been a  
3 lot of private sector innovation on authentication  
4 using multifactor authentication, biometric  
5 authentication. All these measures could make  
6 significant progress for us at lower costs and with  
7 better results than the system we have now.

8 I think what we need is we might not  
9 need the government to innovate in that way, but we do  
10 need to government to set standards for what's  
11 acceptable so that the private sector, so a bank, can  
12 rely on those in transactions and know that the  
13 government believes that the authentication is  
14 appropriate.

15 The government can also use those same  
16 authentication procedures to move money more quickly  
17 and more efficiently. We saw in the financial crisis  
18 and again in the pandemic that when the government  
19 wants to move money quickly to people who need it, it  
20 has a hard time doing that. And part of that is deep  
21 inefficiencies in the U.S. payment system, part of  
22 that is the lack of real-time settlements for retail  
23 payments, and part of that is the really not very good  
24 standards we have for authentication of  
25 identification.

1           So I think if we make progress on this  
2 front, we can help the government help people in times  
3 of crisis; we can help banks make payments; we can  
4 improve access to the financial system for people who  
5 need it the most; we can expand the ability to send  
6 money abroad, to send remittances at much lower costs;  
7 we can open up channels for remittances in countries  
8 right now that are cut off from the financial system  
9 because of identification and authentication concerns  
10 having to do with money laundering or terrorist  
11 financing.

12           So if we make progress on this front, we can  
13 dramatically improve the efficiency of the financial  
14 system and promote financial inclusion at the same  
15 time. I think it's a critical area to be working on.

16           MS. WHITE: Speaking of financial inclusion,  
17 we were talking earlier -- in the earlier panel we had  
18 someone from India who was saying that, you know, one  
19 of their -- the impetus for their sort of data  
20 portability initiatives is to give more people access  
21 to the financial sector. Is that something that --  
22 are there consumers in the U.S. who are sort of  
23 outside the system, and could data portability help  
24 them?

25           MR. BARR: Yes. I mean, in the United

1 States, we have a significant number of people who are  
2 unbanked, who don't have access to the banking sector  
3 or had access before and got out of it because it was  
4 too costly.

5 And we have quite a number of people who are  
6 -- you could think of as underbanked, who need to rely  
7 on a range of alternative financial services because  
8 the formal sector doesn't serve them well. And the  
9 costs of this are really quite extraordinary for --  
10 again, for people who can least afford it.

11 We've set up a system that works really well  
12 for upper-income individuals but not one that works  
13 well for lower-income individuals or even middle-  
14 income families. We need to have a financial system  
15 that really is designed at its heart and that begins  
16 with, what does the consumer need? What do  
17 individuals need to be able to manage their finances  
18 better? How do they -- how can they receive their  
19 income, store it safely, and pay bills at a much lower  
20 cost?

21 And our payment system really isn't set up  
22 well for that. If we made advances in this area,  
23 identification, authentication, which we talked about,  
24 a requirement for realtime payments, which is  
25 technologically feasible but in the United States has

1    been held back because, oftentimes, banks make a lot  
2    of money on overdraft, which is linked to not having  
3    your money right away.

4                    We need a real-time payment system that  
5    actually works for, supports consumers. We need an  
6    identification system that opens up access. We need  
7    low cost products and services that are safe for  
8    people to use. These are all things that we can  
9    achieve. They're not -- there are technical issues in  
10   them. I don't want to say there aren't any technical  
11   issues, but the primary problem is not a technical  
12   one. It's do we have the policy and political will to  
13   create a system designed to actually serve people.

14                   MS. WHITE: Thanks.

15                   My next question is actually for all the  
16   panelists, which is, you know -- we've got about 20  
17   minutes left and we've already gotten a lot of  
18   questions. So I'd like to, you know, get to a few of  
19   them. But I wanted to ask all of you if you could  
20   tell us a little about what you see in the next three  
21   to five years, like what's on the horizon for  
22   portability? You know, will we see an increase in  
23   consumer adoption? Will we see more products entering  
24   the market?

25                   Let's start with you, Bill, or we could --



1           MR. ROBERTS: Sorry. I couldn't get the  
2 question. We had audio breakdown there.

3           MS. WHITE: I was asking what you see in the  
4 next three to five years on the horizon for the open  
5 banking, do you see increased consumer adoption? I  
6 know you've already seen a lot of it. Do you see more  
7 competition in the marketplace?

8           MR. ROBERTS: Yeah, I'm sorry. You broke up  
9 completely then, Kate.

10          MS. WHITE: Okay. Have I been unmuted? I  
11 got accidentally muted by the host. Can you all hear  
12 me again?

13           Oh, good. Dr. Rucker, how about you? Can  
14 you tell us what you see on the horizon in the next  
15 three to five years? Oh, no. Now you're on mute.

16          MR. BARR: I think I've managed to unmute  
17 myself. So maybe I'll start us off while everybody  
18 else figures their computer system out as well.

19           I think there's an incredible need to see  
20 greater improvement in this area in the next few  
21 years, and I think that there's a huge consumer demand  
22 and there's huge demand for small business, which we  
23 haven't talked about as much. These kinds of  
24 initiatives can really, really improve the ability of  
25 small businesses to operate efficiently, to be able to

1 process payments efficiently, to be able to do their  
2 business at much lower costs.

3 A lot of small businesses really spend a lot  
4 more on the frictions of finance than they need to,  
5 and that's because we have the wrong policy framework  
6 in the United States. We need to develop a framework  
7 that really is rooted in serving people and in serving  
8 small businesses. We need real-time settlement  
9 systems; we need information authentication systems;  
10 we need a portability requirement implemented under  
11 the framework that we potentially have; and  
12 improvement in security and privacy.

13 As I said, these are -- there are technical  
14 issues there, but it's really basically an issue of  
15 political will. If we can get the political will,  
16 then in the next few years I can see a dramatic  
17 increase in portability, a dramatic increase in  
18 efficiency in the financial system, more competition  
19 in empowering consumers to have more control over  
20 their financial lives. We can get there if we have  
21 political will. And we've seen that in other  
22 countries in the world, in the UK, in India,  
23 Australia, Singapore. We can get there, but we have  
24 to make the choice that we actually care about it.

25 MS. WHITE: Thanks.

1           Dan, are you able to tell us how you see the  
2 next three to five years going?

3           MR. HORBATT: Yes, I would love to. So from  
4 what I have seen so far, I believe that the process of  
5 utilizing a person's individual electronic medical  
6 records is going to become a much more seamless  
7 process. We're already starting to see this with a  
8 variety of different platforms acting as stewards of  
9 the data on behalf of the patient. So the patient  
10 owns the data. It's just these various platforms that  
11 are helping to connect the dots for them.

12           And we're seeing this already with Apple  
13 Healthcare. You're seeing this with Google Health and  
14 Particle Health, my company's platform, as well, where  
15 patients aren't even going to necessarily need to know  
16 all the details of what's going on. They're just  
17 going to be getting better, more seamless care,  
18 faster.

19           They're going to be able to leverage a large  
20 cohort of applications to provide very special care to  
21 them, especially for chronic conditions. People who  
22 have chronic, ongoing conditions are going to be able  
23 to get care 24-7 through these applications that don't  
24 necessarily even need to directly involve their care  
25 team except at very specific touch points.

1           And, overall, I believe that there's going  
2 to be a much better increase in the efficacy of these  
3 treatments, as well as very rich data, being able to  
4 go back to an individual's care team to see how  
5 exactly they have been going, like have they been  
6 adhering to the medications that they've been on, like  
7 how are things going, without having to ask them to  
8 remember everything that's happened over the past  
9 month for them.

10           So data being used for patients on behalf of  
11 the patients without the patients needing to actually  
12 actively do anything for it.

13           MS. WHITE: Bill, do we have you back? What  
14 do you see on the horizon in the next three to five  
15 years?

16           MR. ROBERTS: I think what I see is the  
17 application of data portability and information  
18 sharing applying to a much larger number of areas. So  
19 I think you will see it applied beyond financial  
20 sectors into what we would call the regulated sectors,  
21 too.

22           I think the big question in my mind is where  
23 the big digital platforms will move, whether the big  
24 digital platforms will move into, say, the payment  
25 area, and whether the banks, maybe the big European

1 banks, will start moving in the opposite direction;  
2 whether they will say to themselves, you know, we need  
3 to reinvent ourselves now. It isn't just your money  
4 you need to keep safe these days; it's your data as  
5 well. So all the banks, certainly in Europe, thinking  
6 about whether they would provide a vault, not just for  
7 money, but for data as well.

8 One of the most peculiar, strangest things  
9 I've seen in the last 12 months was a conversation  
10 with banks in Beijing where the banks in China were  
11 lobbying the Chinese government to be given a level  
12 playing field with Alibaba, basically, because they  
13 envy the power that Alibaba has there.

14 So I think I see people moving into other  
15 people's spaces. I don't know where the big digital  
16 platforms will go. I don't know where the banks will  
17 go, but they seem to be moving closer to each other,  
18 where the device manufacturer will go, I can't tell  
19 either, but everybody seems to be moving to everybody  
20 else's space right now.

21 MS. WHITE: Dr. Rucker, what do you see on  
22 the horizon?

23 DR. RUCKER: Yeah. You know, I think  
24 there's a lot of interest in moving health to a more  
25 continuous 7-by-24 type of activity rather than, you

1 know, the intermittent go-to-the-doctor type of thing  
2 that we've historically had. And so I think, you  
3 know, the device we carry on our body pretty much all  
4 day long is obviously the logical thing to portal for  
5 that.

6 There are several hundred thousand, by  
7 reports, apps and app stores on things like health and  
8 fitness and exercise that don't have access to medical  
9 data. So I think there will actually be a number of  
10 apps that, having access to medical data, especially  
11 for the folks who are sicker, for the folks who have  
12 chronic illness, will be able to engage in much richer  
13 experiences.

14 I think these experiences are going to be  
15 fueled on the one hand by technology, which, you know,  
16 we've seen this in the rest of the app economy in the  
17 entire, you know, bricks versus mortar, mixes of  
18 bricks and mortar that everybody's experimenting with,  
19 and that same paradigm holds in healthcare. And we're  
20 also seeing it in the internet of things.

21 So, you know, Apple just released pulse-ox  
22 on their smart watch. I think there's one or two  
23 other brands have pulse oximeters on their smart  
24 watch. So there's an enveloping technology out there.

25 The other issue that is big out there, I

1 think, is that the markets in the U.S., transparency  
2 both on clinical care and on price. The President's  
3 had, you know, a number of policies obviously in both  
4 areas to increase transparency. That will come  
5 together with the individuals bearing more and more of  
6 healthcare costs as corporations, you know, do less  
7 and less of the shielding of those costs from the  
8 public.

9 So I think there's going to be a lot more  
10 consumer sovereignty demand based on just the shifting  
11 economics. You put the technology, the shifting  
12 economics together, I think we're going to see an  
13 explosive growth in, you know, the involvement of  
14 healthcare mediated via the smartphone.

15 MS. WHITE: So we've gotten several  
16 questions today about consumer adoption, and so it's  
17 sort of two questions. The first one for any and all  
18 of you is, what can we do to increase consumer  
19 adoption to make them more comfortable with adapting  
20 technologies that are giving them the ability to port  
21 their data?

22 MR. BARR: I mean, I'll just jump in again.  
23 It depends on having the policy framework. You know,  
24 right now, again, in the United States, we don't have  
25 the right policy framework to advance this. So people

1 are using either screen scraping or these bilateral  
2 directive data feeds. And until we have a coherent  
3 policy framework that looks out for consumers -- and  
4 that we could do based on the CFPB's current authority  
5 -- I think we're not going to have the kind of  
6 adoption that people eventually want to see once we  
7 have those protections in place.

8 DR. RUCKER: Yeah, if I can give the  
9 healthcare version of that, I think we do actually  
10 have in healthcare, but I agree with Professor Barr.  
11 On the financial side in healthcare, I think we do now  
12 have the policy framework. We have a robust set of,  
13 let's say, starter rules, starter data elements, and a  
14 pathway to get those.

15 I think a lot of it goes back to our earlier  
16 discussion of just raw convenience. People have --  
17 you know, we're all busy, we can't remember 5,000  
18 passwords. You know, we're overwhelmed by technology,  
19 by technology choices. So I think we naturally  
20 gravitate to things that have lower friction costs.

21 So the background work on -- all the  
22 background work on infrastructure, as Dan mentioned,  
23 data quality, that makes these things more elegant and  
24 explanatory to patients. And, frankly, I see the  
25 issues around authentication and informed consent,



1 probably two of the bigger ones we don't have in the  
2 U.S., you know, as elegant consent policies. So we do  
3 it with a sort of jury-rigging approach that basically  
4 works, but it's a high-friction approach, as, again,  
5 Professor Barr mentioned. So I think that's, in fact,  
6 a great role for the FTC, frankly, is to think about  
7 consent policies as well.

8 MS. WHITE: Dan, do you have anything to add  
9 about how we can increase consumer adoption?

10 MR. HORBATT: I think the appetite is there.  
11 As soon as the apps get out there, I think that you're  
12 going to have a lot of consumer-driven downloading and  
13 using of those apps, potential for the prescription of  
14 apps, tying together with a very robust, wearable  
15 economy as well. So things like the Apple Watch,  
16 similar other wearable devices being able to feed  
17 information back to care teams, I think is going to  
18 drive a lot of that going forward as well.

19 MS. WHITE: I've got a question from the  
20 audience, and it suggests that there might be some  
21 consumer confusion where they don't -- and I think we  
22 alluded to this before -- where they don't understand  
23 sort of the protections that follow the data when they  
24 move it. Is there anything we can do to sort of help  
25 with that, for anyone who's got an opinion?

1           MR. BARR: I think, you know, issuing some  
2 clarifying guidance under the Gramm-Leach-Bliley Act  
3 by both the FTC and the bank regulators, it might  
4 help. I think there is some confusion about -- among  
5 some about whether GLBA protections apply outside of  
6 banks. They do, but I think that making sure people  
7 understand that might help in a modest way in  
8 advancing privacy protections.

9           MR. HORBATT: I think -- just to jump in  
10 here as well, I think giving individuals visibility  
11 into where exactly their data is going would also  
12 drive a lot of desire to be informed in part of the  
13 process. So as a patient, if I were able to see  
14 everywhere that I currently had outstanding HIPAA  
15 authorizations for myself, that would be a very  
16 enlightening experience. It would answer a lot of  
17 questions and perhaps could even freak me out a little  
18 bit based on, you know, I don't remember giving this  
19 consent four years ago; I should probably revoke that  
20 at this point because I no longer have a need of their  
21 services. So just being able to know that you have  
22 the rights under HIPAA and being able to exercise them  
23 would drive a lot of consumer confidence, I believe.

24           MS. WHITE: And what about, Bill, if you can  
25 hear us, you had mentioned, yeah, when we talk about

1 sort of consumer adoption and sort of how can we make  
2 sure that consumers understand what they're giving  
3 consent for, how have you guys dealt with that in the  
4 open banking, making sure that consumers sort of  
5 understand what they're consenting to if they want to  
6 use your services?

7 MR. ROBERTS: Basically through just trying  
8 to make it clear to people through some kind of a  
9 dashboard that they know and are clear about what --  
10 who they're giving permission, authorization, for what  
11 purposes, for what data, and over what time period,  
12 and also that they are occasionally required to  
13 reinstate that -- that authorization so that it  
14 doesn't just lie there and it can be used until it's  
15 switched off. The customer will periodically be  
16 required to say, yeah, okay, I'm okay with that data  
17 still being used.

18 There are issues. We are facing issues over  
19 the onward sharing of data because it isn't now just a  
20 matter of an intermediary dealing with banking -- open  
21 banking. We now have third parties handling data  
22 between the bank and the intermediary, and maybe  
23 fourth parties or maybe fifth parties.

24 So it kind of -- it's all of the final  
25 pieces in the implementation that we're trying to

1 crack to make sure that it's plain to the customer to  
2 whom they're giving authorization and for what, and  
3 that they can revoke or vary that consent through  
4 something as simple as a dashboard.

5 I think the only other point I'd make is  
6 that one of the two other lines of defense, if you  
7 want, that we have are the accreditation of firms who  
8 are allowed into the ecosystem. It's quite a big part  
9 of protection to ensure that their systems are as  
10 required.

11 And then certainly on the payment side, we  
12 have a very simple method of redress, so if things do  
13 go wrong, if data does go astray, if somebody moves  
14 money as a result, then it's pretty simple to figure  
15 out where the consumer goes, and it's strict  
16 liability. The customer goes to the bank, the bank  
17 makes the customer whole, and then it sorts it out  
18 with whichever other party to the transaction it would  
19 claim was at fault.

20 So we haven't cracked that yet. It's a huge  
21 issue. It's tied -- authorization is tied in heavily  
22 with issues of authentication, and I don't think  
23 anybody has an A grade on that yet with jurisdictions  
24 that we've looked at.

25 MS. WHITE: Well, thank you all. This has

1    been -- we've just got another minute, and I just  
2    wanted to thank you all for a great conversation.  
3    This has been incredibly useful and informative.  And  
4    so I thank you again.  And, so, our next panel will be  
5    Reconciling the Benefits and Risks of Data  
6    Portability, and that will begin at noon.  And thank  
7    you all for watching.

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1 RECONCILING THE BENEFITS AND RISKS OF DATA PORTABILITY

2 MR. QUILLIAN: Good afternoon. Welcome to  
3 Panel 3, Reconciling the Benefits and Risks of Data  
4 Portability. I'm Ryan Quillian, one of the Deputy  
5 Assistant Directors of the Technology Enforcement  
6 Division in the FTC's Bureau of Competition.

7 We have a very accomplished group here today  
8 who is going to explore this important topic. Before  
9 I briefly introduce the panel, please note that their  
10 full biographies, which tell you much more about their  
11 distinguished backgrounds, are available on our  
12 workshop webpage.

13 Now, our panelists. First is Ali Lange, who  
14 is a public policy manager at Google. She is based in  
15 the company's California headquarters and works  
16 closely with its Data Portability Product Team.

17 Pam Dixon is Founder and Executive Director  
18 of the World Privacy Forum, a public interest research  
19 group focused on consumer data privacy issues.

20 Next is Gabriel Nicholas, a research fellow  
21 at NYU School of Law, whose work focuses on tech  
22 competition and the politics of software.

23 Hodan Omaar is a policy analyst at the  
24 Center for Data Innovation, a research institute  
25 focused on the intersection of data, technology, and

1 public policy.

2           And last but certainly not least is Peter  
3 Swire, who you heard from this morning. Peter is the  
4 Elizabeth and Tommy Holder Chair of Law and Ethics at  
5 the Georgia Tech Scheller College of Business, where  
6 he teaches cybersecurity and privacy. He is also  
7 senior counsel at the Alston & Bird law firm.

8           We're going to do a Q&A discussion among the  
9 panelists. If we have time at the end, we will do our  
10 best to answer some questions from the audience. So  
11 please send those to [dataportability@ftc.gov](mailto:dataportability@ftc.gov). You can  
12 also follow us on Twitter. The FTC will be live  
13 tweeting the event using the hashtag #datatogoftc.

14           Ali Lange is going to start off by telling  
15 us about Google's own data portability project, called  
16 Takeout, and the Data Transfer Project, which is the  
17 collaboration among several large technology  
18 companies.

19           Ali, take it away.

20           MS. LANGE: Thanks so much, Ryan, and thanks  
21 to the FTC for organizing this event. We're really  
22 excited to be here and share a little bit about our  
23 work on data portability.

24           So Google has been working on data  
25 portability for more than a decade, actually starting

1 back in 2007 when a team of engineers in our Chicago  
2 office had developed an early iteration of data  
3 portability tools that allowed users to export copy  
4 from individual Google products. And then four years  
5 later, in 2011, we launched a data portability product  
6 called Google Takeout, which is a centralized place  
7 for users to download their account data -- a copy of  
8 their account data.

9           And since then we really just continued to  
10 invest in this product and innovate and make this  
11 feature practical, easy to use, make sure it's  
12 responsive to the use cases that our users are  
13 requesting in terms of their needs for data  
14 portability. And a lot of folks have talked a lot  
15 about what data portability is, so I think we can  
16 assume folks understand, but just sort of for some  
17 context on how Google has implemented it, the Takeout  
18 product actually currently allows users to download  
19 machine-readable copies of data from over 70 Google  
20 products, in addition to making that data accessible  
21 through their Google account in general.

22           So through this process, users can select  
23 the data format that they want to use, depending on  
24 the product, the type of data they want to download,  
25 what they're planning to do with it. So, for example,



1 a user connects from their Google Docs from drive into  
2 a .docx file format if they're going to use it with  
3 Microsoft. So as you're going through the Takeout  
4 process, if there's an industry standard format that's  
5 available, we pre-select that for export. But when  
6 you're going through, you have the option to change  
7 that to whatever file format you'd like from the  
8 options that are available.

9 We've also in recent years made it  
10 increasingly available for users to transfer data  
11 directly between a Google account to another service  
12 that they can authenticate into. So, for example,  
13 rather than downloading that drive file onto your  
14 computer and then reuploading it into Microsoft  
15 OneDrive, you can send it directly if you can  
16 authenticate into your OneDrive account without  
17 downloading it onto your computer first.

18 We've also added other features in recent  
19 years for Takeout, including options to schedule  
20 recurring exports, and we're expecting to add more  
21 features. We're always adding more features for the  
22 portability tool.

23 As you're using Takeout, one thing that's  
24 important and is made clear in the flow, is that it's  
25 not deleting the data from your Google account. It

1 creates a copy that you can use, you know, to have a  
2 backup, to sort of get a bird's eye view of what's in  
3 your account or move that data to a different service,  
4 as we described.

5 The Takeout functionality is also -- I'm  
6 sorry, the deletion functionality is also available in  
7 your Google account, but it's on a separate page. If  
8 you're going through the deletion flow, it does  
9 actually direct you to Takeout to see if you want a  
10 copy of your data before you delete your account.  
11 They are linked in that way.

12 Throughout this process, Google has  
13 implemented really strong privacy and security  
14 protections for Takeout to guard against unauthorized  
15 access, diversion of data or any other types of fraud.  
16 So, for example, in earlier panels there was a  
17 discussion around authentication. But for Takeout,  
18 users have to re-authenticate their account to execute  
19 a download, even if they're already signed in. And  
20 that would include two-factor if they have that turned  
21 on in their account. That's a protection that we have  
22 installed for our Takeout users.

23 So after sort of a decade of work on data  
24 portability, we have made a lot of improvements as  
25 we've described, and we sort of have learned a lot of

1 information about what users expect, how things are  
2 working, what types of functionality is the most  
3 useful.

4           And over that time, one of the things that  
5 we really focused on is, as I mentioned, making the  
6 data easier to move directly to another service. And  
7 one of the challenges that we found along the way of  
8 doing that is that that one-to-one connection takes  
9 quite a bit of engineering effort, right, to connect  
10 the APIs to every other service you might want to  
11 download your data to or sort of transport a copy of  
12 your data to.

13           So as we were working on that project, we  
14 really thought there was probably a way to make this  
15 easier, particularly given that the direct transfer is  
16 such a significant improvement in user experience, but  
17 the engineering effort can be a little bit challenging  
18 for folks. And that was really the core insight that  
19 we built the Data Transfer Project on.

20           So we founded the Data Transfer Project in  
21 2018 based on these insights around, you know, the  
22 challenges that we faced around direct service-to-  
23 service portability and really wanted to make that an  
24 easier thing across the industry. The Data Transfer  
25 Project is an open-source data portability platform

1 and it enables people to transfer their data directly  
2 between online services. It's essentially an industry  
3 effort that we continue to lead with partners at  
4 Apple, Facebook, Microsoft, and Twitter. And this  
5 effort is really designed to address some of those  
6 technical challenges and help portability scale and be  
7 practical.

8 And, in particular, it's addressed to help  
9 reducing -- or it's designed to help address the  
10 engineering effort that each individual company has to  
11 put into direct service-to-service portability. So  
12 the fundamental concept -- and I would direct folks  
13 who are interested in more of the technical details to  
14 our website, which is [datatransferproject.dev](http://datatransferproject.dev).

15 So the fundamental concept is really that  
16 there's a system of API adapters and common data  
17 models that are built through the open-source  
18 community and available on GitHub. Anybody can  
19 contribute, anybody can sort of see the code and  
20 evaluate it. And these adapters and data models, they  
21 facilitate the direct transfer between providers.

22 And so by sort of centralizing this  
23 engineering effort, by making it open source and  
24 available for others to participate in, the concept is  
25 basically that you're making it much more scalable for

1 other companies to participate.

2           So to give a sense of what this improvement  
3 to scale is through the Data Transfer Project, you can  
4 sort of imagine a world in which there are 10  
5 companies that offer, like, a photos product. For  
6 each of them to all be interconnected, they would have  
7 to build 90 connections. To be maintained, each  
8 company has to do nine different connections and  
9 maintain those and sort of make them operate. And  
10 each time a new company comes into the space, you have  
11 to build a new one.

12           So with the Data Transfer Project, instead  
13 of building that sort of one-to-one web of  
14 connections, things go through a centralized model  
15 where you have a sort of conversion process. And so  
16 all you have to do as an individual company is  
17 maintain your storefront, essentially. You have to  
18 maintain your adapter into the project. But you don't  
19 have to maintain and worry about all of the other  
20 ones. So it really just reduces the amount of effort  
21 folks have to put in, which is the key element of the  
22 scalability of the project.

23           We really hope and believe and have seen  
24 early evidence that this effort will enable  
25 innovation. We want users to be empowered to try out

1 new services and experiences. We don't want companies  
2 to have to be worrying about being integrated with,  
3 you know, N-squared providers. Portability is  
4 something that companies can look forward to enabling  
5 and not sort of dread having to deal with. And the  
6 Data Transfer Project is really a way to facilitate  
7 that and make that a little bit easier so that  
8 innovation can grow and thrive based on this process.

9           Importantly, throughout the Data Transfer  
10 Project, we've spent a lot of time grappling with the  
11 privacy and security kind of elements of the project.  
12 And, again, there's actually a pretty extensive  
13 analysis of this in our white paper and in the  
14 comments we submitted to the FTC, that include, for  
15 example, a table of various responsibilities for all  
16 of the stakeholders in the transfer process, sort of  
17 how we think -- you know, who's responsible for what.  
18 But fundamentally, even though portability does  
19 provide a significant benefit for users, there's an  
20 important element of users being able to move their  
21 data safely, maintaining strong privacy and security  
22 assurances along the way.

23           So from our point of view, providers on both  
24 sides of the portability transaction need to have  
25 strong privacy and security measures such as

1 encryption in transit and other features to guard  
2 against any sort of fraud or other concerns that a  
3 user might have. They should be explained to users.  
4 Users should understand the practices of, for example,  
5 their destination of their data so they're clear on  
6 what is going to happen. And, like I said, this is  
7 detailed pretty extensively in our white paper and  
8 also in the comments to the FTC.

9           So as I mentioned, fundamentally, DTP is  
10 helpful for folks who want to try a new service, and  
11 portability is helpful for folks who want to try a new  
12 service. But one of the main innovations of the Data  
13 Transfer Project is that it's actually really  
14 helpful for individuals who are operating on slow or  
15 metered connections; people who are on mobile devices  
16 in areas without access to high-speed internet or  
17 where internet is very expensive.

18           So if you're thinking of portability in the  
19 sort of original conception where you would download  
20 your data and then re-upload it to a new service  
21 provider, that's a pretty expensive thing to do. You  
22 really have to have a personal device that has a fair  
23 amount of storage. You're talking about using a lot  
24 of bandwidth to download and re-upload the data.

25           So for folks who are based in the U.S. or

1 Europe, this may seem sort of like a marginal change,  
2 although not for everyone but for some. But for folks  
3 around the world, this is actually a really  
4 significant difference. You're shifting the  
5 infrastructure burden from the individual to have this  
6 pretty extensive infrastructure back to the company so  
7 the data is moving through the cloud, and they're not  
8 taking on these kind of expenses basically of  
9 literally moving it. So that's something we're  
10 feeling really positive about.

11 Just quickly, I know I'm sort of running  
12 over your time limit, Ryan, but in addition to the  
13 partners on the project who I listed, Facebook,  
14 Microsoft, Twitter and Apple, several companies,  
15 developers, individuals, have made significant  
16 contributions to the implementation of DTP since it  
17 launched. So we just want to thank everyone who has  
18 participated, not only in building the code, but also  
19 participating in building kind of understanding and  
20 having conversations with us and thinking through some  
21 of the issues.

22 More than two dozen contributors from a  
23 combination of partners in the open source community  
24 have inserted 168,000 lines of code and changed more  
25 than 85,000 files on the GitHub website. So it's been



1 a pretty significant effort in the community, and  
2 we're really grateful for all the work folks have put  
3 in.

4 If you're interested in getting involved or  
5 interested in becoming part of that community, there's  
6 details on the website, which again is  
7 [datatransferproject.dev](http://datatransferproject.dev). I'm sorry, I think I might  
8 have misspoke earlier, [datatransferproject.dev](http://datatransferproject.dev). And  
9 you can learn more about kind of what the partners are  
10 doing. We post periodic updates and we have some  
11 explanations on there on how people can get involved,  
12 no matter where you are, if you're an individual  
13 developer, if you're just a thought leader interested  
14 in participating.

15 So that's basically the history of Google's  
16 effort on data portability, not only making it sort of  
17 easy, practical, you know, really working in our own  
18 platform to make sure folks have what they need to  
19 move their data and to feel like they have sufficient  
20 access and visibility, but also to really contribute  
21 to a broader effort across all of the ecosystems to  
22 make data portability practical and to enable this  
23 direct transfer which we really see as the future of  
24 data portability.

25 MR. QUILLIAN: Thanks so much, Ali. We

1 appreciate that overview.

2 I'm now going to turn to the rest of the  
3 panel to give us some more background on themselves  
4 and their work in the data portability space, as well  
5 as describe their perspective on why data portability  
6 is important.

7 Gabriel, can you please give us a little  
8 background on your interest in this area and tell us,  
9 you know, from your perspective what the goals of data  
10 portability are.

11 MR. NICHOLAS: Sure. And thank you, Ryan,  
12 and thank you to the FTC for having a panel on such an  
13 important topic. I think it's really great to be sort  
14 of having these conversations now.

15 So I see there as being two separate goals  
16 of data portability. On the one hand, there is this  
17 idea of giving consumers access and ownership over  
18 their data, either for archival reasons or for  
19 oversight. And we've seen a lot of strides in this  
20 area from Google Takeout, as Ali mentioned before,  
21 Facebook's Download Your Information tool, and sort of  
22 a number of other portability regimes that have come  
23 up after the GDPR.

24 The other goal of data portability can be to  
25 encourage competition by allowing new and existing

1 products and companies to build new platforms, build  
2 new products, based off of existing data. Now, this  
3 area is much more experimental. As I think Professor  
4 Graef said in the first panel, we haven't seen many  
5 products, if any products, built out of portability in  
6 this way, and we don't know if it works.

7 And so I think a great way for the FTC to  
8 look at data portability is as a big experiment in  
9 improving competition in tech. And the way to  
10 regulate it is to consider how do we best set up the  
11 conditions for this experiment so as to make it most  
12 likely work?

13 And in that experiment, you know, it's  
14 important to focus on the consumers, as we've talked a  
15 lot about, you know, is their privacy being  
16 maintained, is the experience secure, and is it easy  
17 enough for them to actually do -- you know, to allow  
18 them to move their data, if interested, but there's  
19 also a question from the competitors' perspective,  
20 where is the data that companies are making available  
21 enough to actually build platforms off of? And  
22 neither -- you know, neither works alone. Portability  
23 can't improve competition if competitors can't use the  
24 data or if users aren't interested in moving.

25 And, you know, I worked as a software

1 engineer at Yahoo! for about five years and I sort of  
2 got to see a little bit behind the scenes of what data  
3 it takes to actually build products, and that's what  
4 really got me interested in this area. And so, yeah,  
5 I look forward to talking more with the other folks  
6 here about sort of how we can architect data  
7 portability in order to see this sort of successful  
8 experiment.

9 MR. QUILLIAN: Great. Thank you, Gabriel.  
10 Pam, what about you? What are the goals of  
11 data portability from your perspective and why is it  
12 important to the World Privacy Forum?

13 MS. DIXON: Sure. So for us it's really --  
14 data portability is something that effectuates data  
15 autonomy for consumers, and that's an incredibly  
16 important thing. Of course, we saw this really take  
17 hold when the GDPR went into effect. And there have  
18 been some interesting results from that.

19 But our interest in data portability, beyond  
20 just the autonomy aspects, is also some of the privacy  
21 risks. And we'd really like to see some changes in  
22 some of the areas, particularly around health data.  
23 And I'd like to talk more about that later. But for  
24 now let's just earmark that as a definite privacy risk  
25 with data portability.

1           Also, we're very interested in the identity  
2 ecosystems that are being built up, and in some cases,  
3 identity silos that are being built up in order to  
4 authenticate individuals who want to port their data.  
5 So these are both very interesting privacy issues.

6           I do think that there are solutions, and  
7 it's very clear that there are solutions. It's just  
8 that they're not always implemented at this point.  
9 Thanks, Ryan.

10           MS. QUILLIAN: Thank you, Pam.

11           Hodan, why don't you give -- what do you  
12 view as the goals of data portability and what is the  
13 Center for Data Innovation's interest in this issue?

14           MS. OMAAR: Thanks very much, Ryan, and  
15 thanks to the FTC for having me. I think the goals of  
16 data portability, in addition to the pro-competitive  
17 market efficiencies and access goals that Gabe talked  
18 about, is also an opportunity to create innovation  
19 opportunities that kind of help create new products  
20 and new services.

21           So we know what the issue is. We know that  
22 some companies unfairly restrict access to data, but  
23 data portability can kind of tackle this by creating  
24 evidence, where there is evidence-based problems,  
25 where it can identify that it can create solutions

1 that are sector-specific, and really where it can  
2 balance the costs of data portability regimes against  
3 the benefits to overall consumer welfare.

4 And I think where it can create competition  
5 and empower consumers is really speaking to the  
6 competition goal. But, also, where it's able to move  
7 firms and the economy at large away from how can we  
8 collect data and how can we store it to how can we use  
9 it and how can we analyze it, really speaks to that  
10 innovation goal.

11 And the Center for Data Innovation is  
12 concerned with how data can be used to benefit  
13 consumers, increase consumer welfare, and help the  
14 economy and society at large. And that's really where  
15 I think our interest in data portability and this  
16 issue really comes into play.

17 MR. QUILLIAN: Great. Thank you, Hodan.

18 Peter, I enjoyed your introductory overview  
19 this morning. It was very comprehensive. But is  
20 there anything you would like to add at this point  
21 about how we should view the goals of data  
22 portability?

23 I think you're on mute, Peter.

24 MR. SWIRE: Sorry. I have four very, very  
25 quick points. The first is there's a goal of

1 research. If we move data to different places there  
2 might be various kinds of research that work better  
3 than we did before. And that could be data from the  
4 public or private sector.

5           The second is, as one of the goals around  
6 competition, all of the case studies turned out to  
7 have an aspect of lock-in about it so that if  
8 everything is unlocked and open, you don't have to  
9 write a law to open up the windows. But if there's a  
10 lock of some sort, that's when mandates to open up  
11 things tend to be important. And so for competition  
12 goals, looking for lock-in turned out to be more  
13 important than I would have thought before we looked  
14 at the case studies.

15           The third point is I don't think we've heard  
16 the word "multihoming" yet today, and it's a word that  
17 comes up often in these portability discussions.  
18 That's the idea where maybe you're using the first  
19 service and you like it, but you start to like to also  
20 use the second service or the third service. You  
21 don't have to leave the first service. Portability  
22 might let you do some things on the first service and  
23 do some other things you like on the second or third  
24 service. And one way you get competition and  
25 innovation is if people start to have multiple places

1 they call home and not just one place they call home.

2 And the last point for the goal for having a  
3 data portability regime is to try to figure out when  
4 somebody says security and privacy, is it a pretext or  
5 is it real? So I think we've heard in the UK, in a  
6 banking context, the antitrust officials were thinking  
7 that maybe the banks were using cybersecurity as an  
8 excuse or pretext not to do Interoperability, and then  
9 with some hard work, they were able to build  
10 intraoperability. And interestingly today, the  
11 regulators said there have been no material security  
12 incidents.

13 So having a way to detect what's a pretext,  
14 what's a good reason to be careful for privacy and  
15 security, might help us decide when the best  
16 opportunities are for having portability. Thanks.

17 MR. QUILLIAN: That's really interesting.  
18 Thank you, Peter. And let's go a little deeper into  
19 some of these issues surrounding data portability and  
20 how it may affect competition.

21 Ali, can you give a sense of how consumers  
22 are using the data they download through Takeout or  
23 port or download from the Data Transfer Project? And  
24 as you're going through, if you could include a  
25 description of the categories of data that consumers



1 have access to and those that they do not, that would  
2 be really helpful.

3 MS. LANGE: Yeah, happy to. So as I  
4 mentioned, Google Takeout currently allows users to  
5 explore a copy of their data from over 70 Google  
6 products. After users do that, we obviously have no  
7 visibility into what happens next, and so periodically  
8 we'll ask people through surveys, you know, what  
9 they're planning to do with this data. And that's  
10 really our core insight into how data is used. This  
11 is a difference between data that's being downloaded  
12 and re-uploaded or downloaded for another purpose  
13 compared to data that you might transfer directly. So  
14 I just wanted to give some background on kind of how  
15 we have some of this information.

16 So those 70 products include a lot of  
17 products where users are storing data in their  
18 account, things you would think of like emails,  
19 documents, photos, everything like that. And that  
20 also includes things like search history, YouTube  
21 watch history, other things you can see in your Google  
22 account that you can download a copy of if you wanted  
23 to explore them or move them to another service or use  
24 them for some other purpose, for some research purpose  
25 or otherwise, which we've seen folks sort of do some

1 research on their own browser history or things like  
2 that, which has been really cool.

3 But basically, since launching Takeout in  
4 2011, which was the second iteration, a second  
5 iteration of our portability tool in general, Google  
6 users have exported more than an exabyte of data from  
7 Google products, which is a lot, a lot of data. Part  
8 of that is because some of the more popular products  
9 for folks to download are actually photos, which are  
10 bigger file sizes. So -- but an exabyte, it is a  
11 significant amount of data for people to download.

12 And, actually, right now, there is currently  
13 an average of about 2.25 million exports a month, and  
14 over 200 billion files were exported in 2019. So  
15 there's a lot of different ways you can count, you  
16 know, what's being moved, how is it being moved, and  
17 that gives you a sense of, like, the volume of the  
18 data in total as well as sort of the frequency of  
19 using the tool and how many files there are, which is  
20 a pretty good spread of information. So it's very  
21 popular. Folks are definitely taking advantage of the  
22 service that we provide.

23 Takeout is part of the Google account, which  
24 is linked directly from basically every single one of  
25 our products, so if anybody is on Chrome right now,

1 you might see a little icon in the corner with a  
2 letter of your name or a picture. If you click on  
3 that, you can easily get to your Google account, and  
4 in your Google account, you'll find Takeout, as well  
5 as any other services you need to manage the data  
6 that's in there. So we're sort of moving it as  
7 proximal as we can, your account, to the services that  
8 you're using with Google to make it easy to access  
9 that and use it.

10 So as I mentioned, we do sometimes take  
11 these surveys, what are people planning to do with  
12 this data that they download their Takeout. Actually,  
13 we've found a wide variety of use cases that  
14 portability supports, all of which have been  
15 referenced already on this call, and, in particular, I  
16 heard a reference on the regulatory call from Mr. -- I  
17 can't remember his last name, I'm sorry, from India,  
18 who referenced the idea folks are downloading a copy  
19 of their data, which I think is a really good way to  
20 describe it, right? They might not be trying to leave  
21 a service or switch a service. They might be trying  
22 to do something new, which is also the concept Peter  
23 just referenced and the idea of multihoming.

24 So when we've seen folks downloading data,  
25 sometimes they're downloading data from an individual

1 product because they do want to try a new feature on a  
2 different product. Photos is a really good example of  
3 this. People will download photos, they might want to  
4 upload it to a different service that offers a  
5 different kind of functionality, they might want to  
6 share it with a different person, they might just want  
7 to have a copy. So that's another place where we  
8 really put a lot of effort into enabling that direct  
9 transfer, probably because those are fairly  
10 considerable file sizes, and we know it's a common use  
11 case for people, so we want to make it as easy as  
12 possible.

13 So we actually recently just implemented  
14 some new features in the fall that allow users to  
15 directly export their photos to Flickr and OneDrive,  
16 in addition to Dropbox and Box. So we have a pretty  
17 robust set of places folks can move their photos.

18 Users also sometimes want to download their  
19 data to create a backup. They just want to have a  
20 copy on their local device. If they want to -- they  
21 feel better having a copy around. That's a use case  
22 we hear reported. And sometimes folks are exploring  
23 the data that's in their account, something we see  
24 periodically reported through blogs or the news or  
25 things folks are curious what's in their account. It

1 allows them to make changes to their settings and do  
2 some adjustments where they feel they want to make any  
3 changes to what's stored there.

4           You had also asked about what we've seen  
5 through the Data Transfer Project. Since the July  
6 2018 sort of announcement and launch of the project,  
7 in addition to significant investment in the open  
8 source protocols sort of in the GitHub repository,  
9 several of the partners have launched product features  
10 that are powered by DTP. So, as I mentioned, last  
11 fall, for example, Google announced -- I'm sorry,  
12 launched a new feature that enables you to move your  
13 photo library directly to Flickr or Microsoft  
14 OneDrive. And this includes album selection. So it  
15 can be individual photos, all your photos or specific  
16 albums.

17           Facebook also recently had some new  
18 announcements enabling users to move their photos  
19 directly to new services. So they had offered Google  
20 previously in the year and now they've added Dropbox  
21 and -- I'm sorry, I'm going to say this wrong, but I  
22 think it's Koofr, which is a European cloud storage  
23 company. So Facebook has some good features that  
24 they've offered as well through data transfer.

25           Twitter and Apple are sort of testing and

1 building and planning to roll things out in the near  
2 future. And Microsoft has released an open source  
3 log-viewing tool for Office 365 enterprise customers  
4 that's built on DPT technology.

5 So basically in addition to all of that  
6 work, one of the things that the Data Transfer  
7 partners are doing is trying to build awareness of  
8 the product and sort of encourage more folks to  
9 participate, to greater facilitate those involvements.

10 So, for example, Google has presented a demo  
11 of MyData even as far back as 2018, showing how you  
12 can move cat photos between two services, sort of a  
13 classic internet participation process.

14 So, again, DTP is an open source project.  
15 Anyone can establish a usable format or translate from  
16 existing ones and they'll immediately become available  
17 for everybody. So we're expecting to see a lot more  
18 development on DTP in the coming months. But those  
19 are the current implementations and those are some of  
20 the things that we've seen on Google Takeout as far as  
21 what folks are interested in doing and the best way to  
22 make that -- sort of facilitate that for them to make  
23 it work.

24 MR. QUILLIAN: Great.

25 Hodan, the comment submitted by the Center

1 for Data Innovation notes that data portability can  
2 increase market efficiency, but in some cases, it will  
3 not encourage competitors to create more innovative  
4 products. Can you expound on those concepts? And in  
5 particular, are there particular market dynamics or  
6 types of data that would lend themselves toward  
7 increasing market efficiency?

8 MS. OMAAR: I think markets are most  
9 efficient when consumers are best informed, when  
10 markets are most transparent and when firms are best  
11 able to innovate with data. But the issue is, in some  
12 sectors, the incentives of who holds the data and the  
13 incentives of the data subject can differ greatly.

14 So today we talked about utility data, and  
15 so -- and because of the kind of economic models,  
16 utility providers can want to reduce overall energy  
17 consumption to save money. And, for me, that's great.  
18 I, too, want to lower my energy consumption to save  
19 money, so our incentives are aligned. But in other  
20 cases, like we heard in the last panel, in finance and  
21 in healthcare, those incentives can be really  
22 different, and the greater the discrepancy between  
23 incentives and the greater the need for data  
24 portability.

25 So I think where we can make data available,

1 that kind of works toward the market dynamics we want  
2 to see. So more market transparency, more informed  
3 consumers, and like Peter said, where we can have  
4 multiple economic agents using the same data rather  
5 than having to replicate it, we will move toward  
6 overall market efficiency.

7 And I think that's a more useful framework  
8 to think about what types of data might help market  
9 efficiency, rather than kind of creating an exhaustive  
10 list of all the different data types and the  
11 variabilities within those data types. Because data  
12 is -- data isn't like any other economic asset. It  
13 doesn't have value in and of itself. Its value really  
14 comes from the context in which it's being used.

15 So I think where we can kind of balance how  
16 data is being used to improve those three things --  
17 market transparency to help promote competition, to  
18 fuel choice engines for consumers so that they can  
19 make the optimal choice for them, and to help firms  
20 really focus on using data rather than storing it and  
21 collecting it -- will help us kind of move toward  
22 overall market efficiency.

23 MR. QUILLIAN: Great. Thanks, Hodan.

24 And, Gabriel, building on that, from a  
25 competitive perspective is the data that consumers can



1 download or port under the existing data portability  
2 initiatives, is that data competitively significant?  
3 Like, in other words, could a competitor use the data  
4 that consumers port to develop products that compete  
5 with existing companies?

6 MR. NICHOLAS: Yeah. So I think it's a  
7 great question. And I think it is -- as Hodan was  
8 saying, it's not necessarily the same answer in every  
9 sector. But we do see a number of sectors, including  
10 finance, including agriculture, as one of the FTC  
11 comments talks about; auto dealers per Peter Swire's  
12 work, where there are a lot of places that they're  
13 feeling like they are not getting enough data to  
14 actually build competitors or to lower the switching  
15 costs in the way that data portability promises.

16 And at NYU I've done some research on this  
17 case in social media where we looked at Facebook  
18 Download Your Information data and we gave it to  
19 developers and product managers and other people that  
20 we would expect to compete with Facebook and said,  
21 what can you do with this information? Are you able  
22 to use it to build products? And in general the  
23 answer was, no, because there were certain  
24 shortcomings in the data. And some of these I think  
25 are -- there are shortcomings that could be addressed

1 in a way that would be be useful across sectors.

2 Right?

3 So some really basic things such as  
4 documentation describing what data users can expect in  
5 -- when they port. And, you know, the structure of  
6 that data; versioning, you know, so that companies  
7 can't change the way that their data portability  
8 regime looks without expecting; encrypted versions of  
9 unique identifiers so that, you know, you can tell  
10 when it's the same person or same entity across ports.

11 And I think in a similar vein going off of  
12 what Ali was talking about before, it's also important  
13 for users moving their data to have a smooth  
14 experience, which I think a lot of places right now  
15 isn't necessarily that. It is the antiquated  
16 "download your data, upload it somewhere else" model.  
17 And I think shifting toward the direct transfer model  
18 is another area that could really help sort of make  
19 this data actually more competitively significant.

20 MR. QUILLIAN: Great. Thank you, Gabriel.

21 So, Peter, we've heard a fair amount today  
22 about some potential tension between the goals of  
23 privacy and competition in the context of data  
24 portability. I was just hoping, if you could expound  
25 on that a little bit from your perspective and give us

1 a sense of what is that tension and can it be  
2 resolved?

3 MR. SWIRE: Well, on cybersecurity the  
4 case study suggested three areas to look at. The  
5 first, which we've heard a lot about today, is  
6 authentication. Who is going to get access to the  
7 health data? And I think Pam is nodding her head in  
8 part because the authentication in the health care  
9 system is not very good right now. And so somebody  
10 might be able to fake and get into someone else's  
11 data.

12 The second area for security is security in  
13 transit. And I think there's a norm emerging that it  
14 should be encrypted when it goes from point A to point  
15 B. The trick is whether you do screen scraping or you  
16 do API, application programming interfaces. And  
17 there's been some vague calls on some of the regimes  
18 for open APIs, but actually getting everybody to  
19 connect to everybody faces the problems that Ali  
20 talked about, the 90 connections even if there's just  
21 10 companies. So how to have standards for security  
22 in transit.

23 And the third area for security is you're  
24 going to need to have pretty effective standards. It  
25 sounds like a lot of lines of code in GitHub for DTP,

1 and these standards will have security and privacy  
2 components to what the standards are, who gets to see  
3 what, who has what access privileges, et cetera.

4 So those are three areas for security,  
5 authentication, security in transit, and standards,  
6 having the right stuff built in that really have to be  
7 built, and you're probably going to need quite a bunch  
8 of engineers and technical people to do that.

9 On privacy, the biggest risks -- well, the  
10 categories in my outline of questions are what's going  
11 to happen to identify data? What's going to happen to  
12 deidentify data because of data transfers and bulk  
13 deidentify? People might be able to figure out who it  
14 is.

15 There's a big issue about privacy issues  
16 about other people. So if I have a picture that I  
17 want to transfer and the picture is of a 10-year-old  
18 kid of some other family, do I have to get the  
19 parents' permission before I transfer the data? So  
20 those are some of the privacy issues.

21 And then the last one I'll say is what was  
22 mentioned earlier about onward transfers, which is it  
23 goes from sending company to the receiving company,  
24 and then it can go to other places, the fourth and  
25 fifth place. And what the rules are going to be for

1 that, does there have to be new consumer consent?  
2 Does there have to be some visibility of that for the  
3 consumer? The rules for onward transfer can make it a  
4 lot more complicated. And if you're really going to  
5 try to clamp down on the privacy and security risks,  
6 you're probably going to have to give some attention  
7 to onward transfer. Thanks.

8 MR. QUILLIAN: Thanks, Peter. Pam, I mean,  
9 I'd love to get your thoughts on onward transfer as  
10 well. But in addition to that, you know, data  
11 portability has been presented as a consumer right and  
12 it becomes easier to transfer that information. Is  
13 there a risk that consumers will share too much of  
14 their own data? And, similarly, are there cases in  
15 which security or privacy risks might arise after the  
16 transfer to the data recipient kind of along the lines  
17 of what Peter was describing?

18 MS. DIXON: I'll try to bundle all of this  
19 up. So, again, there are benefits to data  
20 portability, and I don't want to discount that. But I  
21 do have to state that there are some very significant  
22 risks, particularly in the health care sector.

23 So, there are short-term risks but there are  
24 very significant long-term risks as well. To just  
25 start with the short-term risks right off the bat --

1 and I think Peter may have alluded to this -- let's  
2 say you're signed into a health care portal and you're  
3 looking at your record.

4           Most portals assume you're authenticated and  
5 it's a one-click transfer. Meanwhile, when you go to  
6 make that transfer of your health data out of your  
7 healthcare portal, I've personally not yet seen a  
8 notice that explains to a patient that their data is  
9 changing from a HIPAA-protected regulatory structure  
10 to a completely different regulatory structure, which  
11 may mean none at all. It may -- it gets really  
12 complex depending on where you're transferring it to.  
13 But not every transfer of patient data -- in fact, I  
14 would wager that the majority of them are not  
15 necessarily going to another health care provider. A  
16 lot of people are transferring data for COVID  
17 research. But they didn't know that they were  
18 actually creating a situation where their entire  
19 health record was then going because that's what they  
20 transferred.

21           And there's such direct transfer that is  
22 frictionless within the health care context. It's  
23 literally like a one-click. So it's really important  
24 to consider something, and that is this: HIPAA does  
25 confer affirmative rights to patients. For example,

1 you will have the affirmative right to request  
2 something called an accounting of disclosure; who's  
3 seen your record. There are limits, but it's still  
4 important. You have the right to restrict disclosure  
5 of your records in some instances. If there's a  
6 subpoena for your records, you will be notified so you  
7 can quash that subpoena.

8 None of that happens when you allow your  
9 records affirmatively by that click to go outside of  
10 the HIPAA context. And I think that the number of  
11 patients who know this and truly understand the  
12 consequences of this action are far and few between.  
13 Maybe health care attorneys and privacy geeks, but  
14 that's -- that would be the limit of it.

15 And then we get to long-term consequences,  
16 which several of the panelists have alluded to, which  
17 is the onward transfer problem. So, first off, what  
18 we're seeing is that some people unfortunately  
19 transfer their data to fraudsters and then are subject  
20 to absolutely heinous situations that arise from that,  
21 all sorts and manners of the worst kinds of identity  
22 theft you can think of. But the other problem is a  
23 little bit less onerous but has a long tail, which is  
24 data transfers to data brokers that are posing as a  
25 health care researcher or doing market research and

1 calling themselves research, health research. Well  
2 they don't say that it's for marketing purposes.

3 But, you see, there's no rules around this  
4 yet. And as a result it's a bit of the wild west.  
5 And unfortunately when that data healthcare file, a  
6 medical file, is transferred outside of HIPAA, it's  
7 free and clear. No further regulations apply to it,  
8 save for perhaps a privacy policy that's posted on the  
9 website, which would then bring that health care file  
10 under FTC Act Section 5 or perhaps under no regulation  
11 at all.

12 So right now one of the things we're seeing  
13 are brand new data sets since the rules took effect  
14 this year that are just loaded with new health data.  
15 So health data is on the market now. And once this  
16 data escapes the HIPAA-protected system, it's a very,  
17 very big challenge to try to reign that back in.

18 Now, all of that being said, there are some  
19 very good instances of people acquiring data for  
20 legitimate purposes. They're very clear. That  
21 exists. But we're kind of focused on the risks and  
22 mitigating those risks. So, there you go.

23 MR. QUILLIAN: Thanks, Pam. And as kind of  
24 a followup, the data that's covered by HIPAA is at  
25 least covered by a sector-specific data privacy



1 regime. What's your view of efforts to set up  
2 portability rights more broadly outside the context of  
3 the universal privacy framework?

4 MS. DIXON: Yeah, that's a really great  
5 question. So, as we all know, the U.S. has a sectoral  
6 privacy regime. So what ends up happening is you'll  
7 have, you know, financial privacy regulation like  
8 Gramm-Leach-Bliley or the FCRA, Fair Credit Reporting  
9 Act. Then over here you'll have HIPAA and so on and  
10 so forth. For education privacy, it's the Family  
11 Educational Rights and Privacy Act. But in between  
12 those areas are significant gaps in coverage, and  
13 that's where things get really, really difficult  
14 because the moment that -- especially health data  
15 leaves the sectoral protections, those protections do  
16 not attach to the data. They attach to the healthcare  
17 provider only. And I do think that if there were an  
18 omnibus situation then it would be much more like  
19 Europe, where the protections travel along and there  
20 are fewer gaps. It's not perfect, but the gaps are  
21 further apart and much fewer.

22 MR. QUILLIAN: Thanks, Pam.

23 Peter, you covered this a little bit earlier  
24 but I was wondering, based on your experience, what  
25 are the greatest data-security-related risks from

1 portability?

2 MR. SWIRE: I tried to answer that in terms  
3 of authentication, security and transit and having the  
4 standards with good security and privacy practices  
5 built in. Maybe I can just quickly follow up on  
6 something Pam was saying about the comparison with  
7 Europe and the United States.

8 In Europe, there are these general rules in  
9 the background. So if it went from a health provider  
10 who might be under stricter rules to someone else,  
11 there's still GDPR in place. In the United States, if  
12 it goes from a HIPAA entity relatively strict to some  
13 other entity outside of the sector, maybe the FTC can  
14 enforce for deceptive practices, but in practice  
15 there's a much lower level of requirement. And so the  
16 risks to privacy when you don't have a national law  
17 are higher when it goes out of the sector by sector.

18 And then the one other point is even in  
19 Europe where they have the general background privacy  
20 rules, when they were doing their open banking and  
21 payment services rules, the lead privacy supervisor,  
22 Giovanni Buttarelli, believed that for each sector it  
23 was important to have sector-specific laws that went  
24 beyond it.

25 And so even in Europe with the back-end

1 privacy rules, the privacy experts thought there  
2 needed to be some sector-specific protections. So I  
3 think as it moves from one sector to another from a  
4 regulated entity to another, that really deserves a  
5 lot of attention in any overall policy decisions the  
6 FTC looks at.

7 MR. QUILLIAN: Thanks, Peter.

8 Gabriel, what would a data portability  
9 regime that facilitates competition by reducing  
10 barriers to entry, by example reducing switching  
11 costs, helping overcome network effects, reducing  
12 lock-in, et cetera, what would that actually look like  
13 in practice?

14 MR. NICHOLAS: Yeah. So, I think to your  
15 question, it's important that if data -- the approach  
16 to data portability is hoping to improve competition  
17 that I think it not just focus on user lock-in,  
18 because user lock-in is just one of many effects of  
19 this going on that make competition difficult in the  
20 tech sector.

21 And one of those -- and an important one, I  
22 think, is network effects that -- and I think there  
23 are ways that data portability can also help network  
24 effects. So, for example, there's the idea of group  
25 portability or collective portability wherein users

1 who share data might want to move all of their data  
2 together to another platform. And that sort of helps  
3 mitigate the empty platform idea of like, well, you  
4 don't want to go to a platform where nobody is. And  
5 you don't necessarily -- in some cases you don't want  
6 to go to a platform where you don't know anyone.

7           And so allowing, say, you know, in the  
8 social example a group of friends who are all  
9 messaging on Viber wants to move to WhatsApp, by  
10 giving them a mechanism to all opt into that and to  
11 allow them to move the data that they share together,  
12 I think can make sure that data doesn't fall into the  
13 gaps. You know, right now in a lot of portability  
14 regimes when you download a conversation that you have  
15 with someone, you only get your side of the  
16 conversation, which isn't particularly useful. And  
17 the other person only gets their side of the  
18 conversation. And even if you uploaded them together,  
19 there can be insufficient data, data that falls in the  
20 cracks, that prevents that whole conversation from  
21 actually being rebuilt. So I think collective  
22 portability is a way to address that.

23           I also think that there are -- it's  
24 important to be careful with the way that we address  
25 switching costs, because there are -- as someone in

1 the first panel mentioned, there are ways that  
2 lowering switching costs could end up harming  
3 competition. And I think this is really important  
4 when we think about data portability reciprocity, or,  
5 you know, if you import data from elsewhere, do you  
6 also have to make your data exportable?

7 And this is very tricky question, but there  
8 are some places where that might actually prevent  
9 competitors from using ported data. So there's the  
10 example of -- let's take the example of Salesforce,  
11 right, which is the dominant customer relationship  
12 management -- the customer relationship management  
13 platform. So, you know, they have very strong network  
14 effects. They have a lot of customers and, you know,  
15 they're very difficult to compete with.

16 Now, smaller places can really only compete  
17 on price. They have to offer a lower price for a CRM  
18 that does not as much enjoy network effects and does  
19 not have as many users on it. And currently switching  
20 costs for CRMs are high. You have to either pay a  
21 consultant to do it or buy an expensive tool to move  
22 the data over, and these high switching costs make  
23 sure that the small CRMs have a little bit of room to  
24 grow that they can enjoy some of their own network  
25 effects.

1           And there is precedence for dealing with  
2 this in the law. So the Access Act has this, which  
3 was the proposed portability law that placed a monthly  
4 active user count. And I think there's a number of  
5 ways that really should be looked at to make sure that  
6 data is flowing in the direction that we're interested  
7 in it flowing.

8           MR. QUILLIAN: Thanks, Gabriel.

9           Pam, do you have any thoughts on that topic?

10          MS. DIXON: Yeah. Just, you know, Gabe, I  
11 might have to call you and talk with you about this  
12 more. I had a thought, and I just realized something  
13 listening to you, which is this: The data portability  
14 types that we look at the most are data portability  
15 types wherein an entire very data-rich file is  
16 transferred all in one lump.

17          So, for example, financial reports that  
18 include a lot of rich data, and health files, which  
19 is, of course, reams of very rich data. So there's  
20 not this, you know, multidimensional, multiperson  
21 aspect to this data. It doesn't have to be  
22 reconstituted in order to have a lot of value to  
23 multiple types of actors. So I do think that that is  
24 an important distinguishing characteristic, and  
25 perhaps a point of risk that can be addressed by

1 rules, whereas if you have a complete file type that's  
2 very rich, what are the rules and notifications, et  
3 cetera, that need to be involved with that data type.  
4 Thanks, Ryan.

5 MR. QUILLIAN: Thanks, Pam.

6 Hodan, did you want to add anything about  
7 the difference in jurisdictional laws or approaches?

8 MS. OMAAR: Yes. So I just wanted to add on  
9 to what Pam said. I think when we think about what  
10 works in the EU and what will work in the U.S., we  
11 need to remember the real differences or just be  
12 cognizant of the differences in those sectors. So if  
13 we think about banking in Europe, the banking sector  
14 is a lot more concentrated than it is here in the U.S.  
15 And world bank data really supports that. And as  
16 someone who lives in the UK or lived in the UK and  
17 have just come to the U.S., you know, everyone I knew  
18 growing up, everyone is with one of six or seven --  
19 you know, less than 10 banks.

20 But here you go to different towns, you go  
21 to different places, everybody's with a different  
22 bank, a local bank. And so really the kind of rules  
23 that we enforce on sectors, how they work in the EU  
24 how they're going to work in the U.S., has to have --  
25 be really steeped in research and evidence-based, and

1 we have to think about how that might actually -- just  
2 because somebody worked in the EU, it doesn't  
3 necessarily mean that economy-wide rules are going to  
4 be -- work here or that they're going to help those  
5 smaller banks or just be effective overall.

6 MR. QUILLIAN: Great. Thank you, Hodan.

7 And we appreciate everybody who submitted  
8 questions to dataportability@ftc.gov. We have one  
9 question from the audience here for Peter. Going back  
10 to your concern about pretextual arguments against  
11 developing interoperability, is it possible to  
12 distinguish between pretextual arguments from one --  
13 like, pretextual arguments from ones that arrive from  
14 privacy or security?

15 MR. SWIRE: Thanks. To me, that was one of  
16 the big questions I tried to think about during my  
17 research. I love privacy and cybersecurity. I love  
18 having competition and innovation. And you see  
19 cybersecurity and privacy being made as an argument  
20 when it might be a pretext.

21 So based on all the case studies, I'll tell  
22 a story from the automobile dealers case studies, and  
23 there's litigation on this and I've been an expert  
24 witness in it, but I think I can describe it  
25 neutrally. So the claim has been from the automobile



1 dealers that they need to be able to get access to  
2 their own company's data and move it to a different  
3 supplier and have other software help. And the claim  
4 has been made by the companies who run the operating  
5 system that that would have terrible cybersecurity and  
6 privacy problems with it, especially the  
7 cybersecurity. And so that's a fight. And there's  
8 facts about that.

9           So after working through all the case  
10 studies, one way you might have a guess that it's a  
11 pretext is if the company that's running things, that  
12 has the data, allows all sorts of transfers to itself  
13 and its affiliates on special terms that advantage it,  
14 but acts more strictly against outside groups. And  
15 that kind of discriminatory treatment might be a hint  
16 that it's not really worried about cybersecurity; that  
17 it's actually trying to get economic advantage.

18           So in antitrust law there's the idea of  
19 FRAND -- fair, reasonable and nondiscriminatory terms  
20 -- basically that you treat the outside and inside  
21 companies the same. And it turns out in a bunch of  
22 the portability laws that we have, including the HHS  
23 interoperability rule, including in the Arizona auto  
24 dealers rule, and I think there's two or three more,  
25 in Europe there's some of them, all of them -- payment

1 services directive. There's an emerging standard that  
2 when the company is saying, no, I can't do it because  
3 of cybersecurity or privacy, there's an emerging  
4 standard that you can apply those FRAND approaches  
5 that is fair, reasonable and nondiscriminatory.

6 And that gives at least a start to saying,  
7 this time it looks like they're doing it for their own  
8 advantage, or this time it looks like they have a bona  
9 fide cybersecurity point. So in my paper, which is up  
10 at SSRN, there's a fairly long discussion about these  
11 FRAND kind of approaches. And I think that's one hint  
12 about whether we trust the cybersecurity argument or  
13 not.

14 MR. QUILLIAN: Thanks, Peter.

15 So I'd like to turn now, since this workshop  
16 is a data-gathering and explanatory exercise, I'd like  
17 to get everybody's thoughts on research that's been  
18 helpful to them and things that still need to be done.

19 So, Hodan, do you have any thoughts on the  
20 types of research that would help us better understand  
21 whether existing data portability requirements are  
22 benefitting consumers?

23 MS. OMAAR: I think to better understand the  
24 extent to which data portability is helping consumers,  
25 we really need to understand how much these regimes

1 cost financially; how effective they actually are in  
2 specific sectors, and also the kind of risks  
3 associated with potential data breaches.

4 ITIF, the Information Technology and  
5 Innovation Foundation, wrote a report called "Costs of  
6 Unnecessarily Stringent Federal Data Privacy Law" that  
7 estimated the total cost of data portability  
8 requirements for all U.S. organizations that handle  
9 personal data would be roughly around \$510 million.  
10 Professor Graef's work that we heard in the first  
11 panel, her work analyzing and comparing GDPR versus  
12 sector-specific data portability regimes, has also  
13 been really useful to me.

14 And then finally Oxford University, James  
15 Pavur showed that confusion over data access  
16 requirements in the GDPR has led to significant  
17 security incidents with a substantial number of  
18 organizations responding to malicious data requests  
19 with approximately one in four turning over personally  
20 identifiable information.

21 So I think if we can quantify the financial  
22 costs and qualify the kind of privacy and security  
23 issues and really balance this against kind of  
24 evidence-based, sector-specific benefits, then  
25 policymakers will be able to better kind of create

1 targeted specific data portability rules that kind of  
2 are successful in increasing consumer welfare.

3 MR. QUILLIAN: Great. Thank you, Hodan.

4 Ali, what research related to data  
5 portability have you found most helpful, and what do  
6 you think needs to be done to advance our  
7 understanding the benefits and risks related to it?

8 MS. LANGE: Yeah, there's certainly a lot of  
9 good scholarship on potential benefits of portability.  
10 And big thanks to folks on this panel and across this  
11 workshop for all the work that they've done to really  
12 think through some of these issues and put pen to  
13 paper and describe things and sort of move the ball  
14 forward on how we think through portability. So I  
15 just want to acknowledge all that work already.

16 One thing that's interesting hearing today's  
17 discussion is lot of the conversation is really  
18 focused on frameworks and kind of protocols and rules  
19 for the conceptualization of portability. From our  
20 point of view, I think it sort of -- and it makes  
21 sense because I think it feels like it should be a  
22 technically simple exercise. It certainly seems  
23 simpler than a lot of other things that our phone  
24 might do, which feel a little bit like magic.

25 But from our point of view after a decade of

1 work on this, we found that portability is actually a  
2 pretty technical challenging puzzle. The favorite --  
3 like the favorite kind that folks at Google like to  
4 solve. And so I would say that work doesn't need to  
5 be or shouldn't be discounted in the broader scheme of  
6 what work needs to be done. You know, it's not the  
7 case that if you can just solve a framework question  
8 then everything else will fall into place without that  
9 effort.

10 And so from our point of view in addition to  
11 that work and the actual technical engineering that  
12 we're sort of trying to advance with our partners in  
13 the Data Transfer Project or ourselves on our  
14 platform, there's a lot of judgment that needs to be  
15 made in decision-making throughout the process. So I  
16 guess the answer to your question from my point of  
17 view is to sort of think through other ways to help  
18 inform that decision-making, things about the use  
19 cases people care about, the portability actions they  
20 find useful, things that work as expected, what are  
21 expectations for people who are moving data; technical  
22 needs to make data portability practical so the work  
23 we're advancing through DTP.

24 We welcome more folks to participate in that  
25 to help really move that ball forward, and

1 fundamentally thinking through how do you keep this  
2 sustainable, right? Echoing back to some of Peter's  
3 points on the sort of N-squared problem, how do we  
4 think about things that scale successfully, how do we  
5 think about things that are useful for those folks?

6           So I do think there's a pretty strong set of  
7 technical questions that can also merit attention.  
8 And this is one of the reasons why we really like the  
9 open source solution space for Data Transfer Project,  
10 is to create the space for folks to come and iterate  
11 and think through some of those questions, in addition  
12 to all the great policy work that's being done by  
13 folks on this call and otherwise.

14           MR. QUILLIAN: All right, Pam. Same  
15 question to you: What research has been most helpful  
16 and what do we need to do to advance the ball?

17           MS. DIXON: Yeah. So I think that for me  
18 the research that I'm really looking at right now and  
19 that's been very helpful has been research around  
20 digital identity ecosystems and how they interact in  
21 regards to verifying and authenticating someone and  
22 identifying who they are.

23           We're seeing the emergence of a lot of what  
24 I call strong identity. Strong identity requirements  
25 include biometrics. Now, that doesn't always occur,

1 but we're seeing more of it. So there's a rich  
2 literature on tokenization versus requiring strong  
3 identity everywhere. There's a rich literature that's  
4 emerging on how identity ecosystems are working in  
5 this context. And I think that this is a very under-  
6 researched area in terms of how it's working from the  
7 consumer's point of view.

8           There's a lot of research on how it's  
9 working from the business entity that's attempting to  
10 either acquire or port the data. But from the  
11 consumer perspective, what identification mechanisms  
12 are going to be required of them and how good are  
13 they? What's their quality? What's their endurance?  
14 What are their -- what are the qualities of that type  
15 of identity? Is it a biometric? Is it something  
16 else? What is it? And what are the kinds of  
17 standards we want in place for that?

18           So I do also think that the role of  
19 standards becomes very important here. And it can be  
20 technical standards as well as data typing standards,  
21 as well as other kinds of procedural standards.

22           MR. QUILLIAN: All right. Gabriel, in  
23 addition to your own publications, what research  
24 related to data portability have you found most  
25 helpful, and what's coming next for what needs to be

1 done?

2 MR. NICHOLAS: So I think there are three  
3 general -- so I do want to echo, I think that Pam and  
4 Hodan and Ali all bring up really great points that  
5 sort of do need additional research. So I'll add  
6 three to that.

7 One of them is I think there needs to be  
8 historical research on sort of analogs to portability.  
9 Peter has talked about before how mobile number  
10 portability, it gets used a lot, but it's sort of a  
11 bad example of what data portability looks like in the  
12 wild. I think there might be better examples out  
13 there.

14 One that comes to mind is the '96 Telecoms  
15 Act and unbundling where that was an area where sort  
16 of per what Hodan was saying before that, you know, it  
17 wasn't able to lead to innovation because companies  
18 weren't able to differentiate their products enough or  
19 they weren't able to compete on price.

20 So I think there's a lot of areas where  
21 there have been things similar to portability before  
22 that have succeeded or failed that could be brought  
23 into these conversations.

24 A second thing I think is important is this  
25 question that's come up a lot in this panel of general



1 versus sectoral approaches. Is there any kind of data  
2 portability law that really is useful across sectors  
3 and should be implemented, and what are the kind of  
4 things that need to be thought about sectorally. And  
5 at NYU Law, we're hoping to put on a conference about  
6 this sort of thing, so if this is the kind of thing  
7 that interests you, please reach out to me over  
8 Twitter or email or otherwise.

9           And a final topic that has not -- a sort of  
10 whole Pandora's box that we've not really opened is  
11 API portability versus one-off exports. I know that a  
12 number of comments discussed this where, you know,  
13 there's this tradeoff of API portability can mean --  
14 it can sort of increase the number of risks, it can  
15 increase the threat to the data-sending entity, but it  
16 can also open up a whole world of other products that  
17 could be built that couldn't otherwise be built.

18           So I think there's a million questions  
19 around those things, around API portability versus  
20 one-off exports that need to be sorted out, and it's  
21 really an exciting area that's a wide open space for a  
22 lot of research.

23           MR. QUILLIAN: Great. Thanks, Gabriel.

24           And, Peter, to wrap up, same question to  
25 you. What's been good and what needs to happen?

1           MR. SWIRE: Well, first I want to say  
2 briefly why it's a hard problem. In a lot of ways  
3 it's when you open up data flows and when do you close  
4 data flows in a database society. And that's one  
5 reason that the issues sort of spread out all over the  
6 place, and I think the FTC will have to figure out how  
7 to cabin in some way in order to have its best  
8 recommendations going forward.

9           I'll mention three areas of research. One  
10 is a plug for Gabe's work on group or collective  
11 portability. I had never heard of it or thought of it  
12 until he wrote his article last year about it. And so  
13 if you're a set of people who like bird feeders, you  
14 know, and you want to move your comments from one  
15 place to another, how can you scale it so the groups  
16 can move to different services or competing services.

17           A second is there's been work done by  
18 Professor Inge Graef, who was on the first panel, and  
19 others about other case studies, after-markets for  
20 cars in the European Union; electric utility  
21 portability in Australia and the UK and the EU. And  
22 so keeping -- learning from the case study so you're  
23 not just off in theory land but you have some real  
24 examples.

25           And the third one -- and I think the area

1 for the most work, and sometimes it seems like the  
2 least glamorous work, is how to do the standards, the  
3 technical standards. We've had several people mention  
4 how much hard work it is, whether it's on APIs, open  
5 APIs, or having a clearinghouse kind of structure like  
6 DTP has, how to do the data formats so that people in  
7 healthcare are transferring the right stuff and not  
8 everything like a fire hose.

9 I think there's a lot more work to be done  
10 by the technical people, by the patience of working on  
11 the standards, and might be 60 or 80 or 90 percent of  
12 the work that has to get done. And policy people  
13 never want to go into a standards conversation. I've  
14 had horrible experiences in standards processes with  
15 do not track. But that's where the portability that  
16 will happen or won't happen, and so a much bigger  
17 fraction of the work should be how do we get the  
18 standards in place for secure and effective transfer,  
19 even though nobody's going to want to do it.

20 MR. QUILLIAN: Thanks, Peter.

21 So we have a question from the audience, and  
22 I will ask Pam to lead off here. Have you looked at  
23 the way that individuals can play a part in enabling  
24 the market and ensuring the fair exchange of value for  
25 the use of their data, calling out misuse, supported

1 by tools that enable and empower them as active  
2 participants in the ecosystem?

3 MS. DIXON: So if I could ask the person  
4 asking the question a little bit more, clarifying  
5 about their question, but I'm going to take two  
6 different stabs at it very briefly.

7 So, first, I mean, when you're dealing with  
8 data portability and you're pulling data, this goes  
9 back to something that's come up on this panel several  
10 times, which is sometimes this data is commingled.  
11 Additionally -- and that's with the data of other  
12 people that are, you know, on the platform with you,  
13 in group conversations or joint conversations, et  
14 cetera.

15 But there's another complicating factor,  
16 which is whatever the platform or entity put into that  
17 data, there may be analytical information that's been  
18 added and so on and so forth. So at the end of the  
19 day, you can come up with a very complex analysis  
20 that, you know, there are a lot of people that own  
21 this data. So we have a paper that we workshopped at  
22 the Privacy Law Scholars Conference, Jane Winn and I,  
23 but we haven't quite published it yet. We will this  
24 year.

25 But the paper is really about common pooled

1 resources, a la Elinor Ostrom and the governance of  
2 the commons, and what do you do when there's a  
3 resource that is rivalrous, to use those terms, and it  
4 can be claimed by several different entities or  
5 individuals. What do you do? And there's a whole  
6 philosophy on what you do with that.

7 But the thing that you don't do is claim  
8 that you own it. So there is that school of thought.  
9 And I do think that this has to be looked at very  
10 carefully. This is -- we're in an active research  
11 phase on this idea. But I think it's an important  
12 idea to consider, and let's see if it has merit in  
13 this context. We're in the exploration phase. But I  
14 do think it's important to understand that it's very  
15 difficult to just say, oh, here's my health record;  
16 let me sell it to someone. I think that that can have  
17 just profoundly deleterious, unintended consequences  
18 if we start looking at monetizing your own data in  
19 that way, kind of turns into a Les Miserables where  
20 people are selling their teeth. So I just think we  
21 have to be very, very, very cautious in that area.

22 And because I chatted so much, I think I'll  
23 stop there. It's a great question, though.

24 MR. QUILLIAN: Thanks.

25 Gabe, did you have something you wanted to

1 add on this audience question?

2 MR. NICHOLAS: Yeah. I just wanted to add  
3 that I think the way it currently is today, this is a  
4 really difficult process to do from the bottom up,  
5 because platforms really in many industries have a lot  
6 of control over the data that they make available.

7 So I know that there's the example of the  
8 Light Collective, which is a patient advocacy group  
9 that's interested in, you know, taking groups where,  
10 you know, it's like you take back a conversation or,  
11 you know, patient groups with diseases, where they're  
12 sharing sensitive medical information. And Facebook  
13 has advertently or inadvertently monetized that data.  
14 And there are groups that want to be able to move off  
15 to another platform, but the data that's made  
16 available to them is inefficient. It's insufficient  
17 and there aren't legal mechanisms to get the data that  
18 would be sufficient there.

19 So I think this is a place where for those  
20 bottom-up initiatives to happen, there also needs to  
21 be legal support for those to happen.

22 MR. QUILLIAN: Thanks, Gabe.

23 Peter, you wanted to add something really  
24 quick?

25 MR. SWIRE: Yeah. This is a -- the question

1 illustrates where there's tension between the  
2 antitrust outlook and the privacy outlook. So when  
3 you talk about individuals enabling the market,  
4 ensuring fair exchange of value for their data, for  
5 antitrust trained people it seems natural to want to  
6 get the market to move to allow transfers to have  
7 higher value.

8           And as Pam said, and as many people in  
9 Europe have said, if you look at this as a privacy  
10 right that's going to be invaded and treated badly,  
11 there's a lot of people on the privacy side that are  
12 super skeptical of it. So the different discourses of  
13 antitrust people and privacy people are really far  
14 apart on this particular issue.

15           MR. QUILLIAN: Great.  
16           Hodan?

17           MS. OMAAR: So I just wanted to add  
18 something on a rather different point. But just while  
19 we have time in this forum, I just wanted to bring up  
20 that not all data is digitized, right? Some of it is  
21 analog, a lot of it is. And when we have very kind of  
22 strict data portability regimes that apply only to  
23 electronic data, we can create these sort of kind of  
24 perverse incentives that have companies wanting to  
25 avoid digitizing their data and in some sense actually

1 making lock-in problems even worse, and also dampening  
2 the kind of trends toward digitization.

3 So as we think about what rules and regimes  
4 we want to kind of implement, that's something to  
5 think about.

6 MR. QUILLIAN: Great. Thank you. And so  
7 we've got about five minutes left. So I have kind of  
8 a round-up question for each of you, maybe one or two  
9 minutes in response.

10 We'll start with you, Ali. So where do you  
11 see data portability moving or going in the next three  
12 to five years, and are there any concerns, you know,  
13 as we go in that direction or things that you think  
14 we need to address before we get there?

15 MS. LANGE: Yeah, I mean, I think that the  
16 alignment toward more service-to-service portability  
17 is something I really see growing in the coming years.  
18 I think the reason for that is really fundamentally  
19 back to the core motivation for Google and the core  
20 insights that we've had throughout the process and I  
21 think that I've heard others on the panel echo, which  
22 is that making the design users to focus on what  
23 people want to do, making it useful for folks, making  
24 it practical both in terms of feature kind of  
25 expectations and in terms of, you know, the lighter



1 technical infrastructure placed on individuals and  
2 things like this.

3 This all sort of merges toward a world in  
4 which I think we'll see more kind of behind the scenes  
5 work done by the technical community, the open source  
6 community and others.

7 I should say I'm speaking mostly from my own  
8 sector. I think the observations others have made  
9 about the healthcare sector and financial sectors, who  
10 have been more regulated than sort of slightly  
11 different sectors. I probably have less youthful  
12 insight into that work. But fundamentally where I see  
13 it going is really more toward focusing on user-center  
14 design, making things more usable, making things more  
15 practical for individuals to make decisions about  
16 trying new features or staying in control of their  
17 data in other ways.

18 MR. QUILLIAN: Great, thanks.

19 Gabriel, do you have thoughts on the next  
20 three to five years?

21 MR. NICHOLAS: I guess I do and I don't,  
22 because, again, I just want to reiterate this feeling  
23 that, like, we don't -- there are some sectors that  
24 have experimented around with data portability, but by  
25 and large we don't know its effectiveness at

1 introducing competition.

2           And I hope that in the next couple years we  
3 will find out. You know, I think there's a little bit  
4 of a "if you build it, they will come" mentality, but  
5 in reality we'll build it, and we'll hopefully build  
6 it as well as we can and hope they come. And so I'm  
7 definitely excited to see in the next couple of years  
8 what happens with data portability, what competitors  
9 end up building with it, what issues users run into  
10 it, and both how this policy adjusts to improve those  
11 ways that competitors are benefitting and add further  
12 user protections where those get trampled on.

13           MR. QUILLIAN: Well, I certainly appreciate  
14 any "Field of Dreams" reference, so I appreciate you  
15 throwing that in there.

16           Hodan, do you have any thoughts on what's  
17 coming up next and anything that needs to get  
18 corrected as we're going in that direction?

19           MS. OMAAR: Yes. So I think I'd just add on  
20 to what Gabe said and say I can say where I hope to  
21 see data portability go, which is kind of increasing  
22 that market efficiency by, you know, making markets  
23 more transparent, making consumers better informed,  
24 and helping firms really be able to use and analyze  
25 that data rather than spending so much time on kind of

1 collecting and storing it.

2 MR. QUILLIAN: Great. Thanks, Hodan.

3 Pam, what are your thoughts?

4 MS. DIXON: Sure. I'd really love to see  
5 more standards work and more individuals involved with  
6 the standards work. Peter is right, people don't like  
7 doing standards, but they're going to be the backbone  
8 of a lot of this.

9 For example, there could be a standard and  
10 it wouldn't take 15 years to develop, but there could  
11 be a standard for notifications in the healthcare  
12 sector prior to transfer out. And this would be  
13 fantastic and it would really solve some problems.  
14 And that's the second thing I would say, is I really  
15 do think that we can reach out and get some very good  
16 low-hanging fruit that would help a lot of people  
17 fairly quickly. And I don't think it would be that  
18 difficult. I think there is some low-hanging fruit.  
19 There's some harder fruit and I think that has to do  
20 with the standards and also with the identity  
21 ecosystems. But I think that that will proceed. I  
22 would be surprised if it didn't.

23 MR. QUILLIAN: And, Peter, let's stick with  
24 baseball, cleanup hitter, finish us off with the --

25 MR. SWIRE: I'm batting fifth. Anyway, so

1 one thing to note is that data portability is popular.  
2 And there's bills in Congress from both the Republican  
3 side and Democratic side, and both of them include  
4 data portability for comprehensive privacy legislation  
5 in the U.S. Most of the states who proposed laws in  
6 the last two years have had data portability in them.  
7 So it's a hooray kind of term. People are in favor of  
8 portability from a lot of perspectives, so we should  
9 expect a lot more of that.

10 The second thing, I hope in the next  
11 three to five years, is to build on what the FTC is  
12 doing today by bringing together different sectors --  
13 health care, financial services, digital platforms.  
14 They don't talk to each other necessarily that much.  
15 People think their own world is the whole world  
16 because each of those worlds is very huge.

17 Also, doing it cross nationally. We've  
18 talked about the EU today and Australia and others are  
19 doing it. So I think that if we can continue the  
20 learning process instead of thinking we're having to  
21 create it from scratch and learn from these different  
22 experiences and case studies that we're likely to have  
23 better ideas of how to do the next thing and meet some  
24 of Gabe's hopes for it actually being useful, and the  
25 rest of everybody's hopes for having privacy, security

1 and competition.

2 So I think, you know -- I'm a professor.  
3 Further study will help. And I think this workshop is  
4 a very big step toward doing that.

5 MR. QUILLIAN: Well, great. Well, in  
6 response I'd just like to thank all of you for  
7 participating today. I think this has been a really  
8 great discussion, in addition to the other panels,  
9 which I found really interesting. It's a complex  
10 topic and there's a lot more to do. So I appreciate  
11 your time and all your thoughts.

12 We're going to take a short break now and  
13 reconvene at 1:30 Eastern for our final panel, which  
14 will focus on several key concerns confronting data  
15 portability initiatives: namely security, privacy,  
16 standardization and interoperability. So stay tuned  
17 and thanks, everybody.

18 (Brief recess.)

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1                   REALIZING DATA PORTABILITY'S POTENTIAL:  
2                   MATERIAL CHALLENGES AND SOLUTIONS

3                   MR. BROWN: Welcome back. Thank you for  
4 joining us for our final panel of the day, Realizing  
5 Data Portability's Potential: Material Challenges and  
6 its Solutions.

7                   My name is Jarad Brown. I'm an attorney in  
8 the Division of Privacy and Identity Protection. On  
9 this panel, we will further discuss some specific  
10 topics that have been raised throughout the day:  
11 privacy, security, standards and interoperability, as  
12 well as possible solutions.

13                   If we have time, I'll try to incorporate any  
14 questions we receive from viewers. So please send any  
15 questions you have to [dataportability@ftc.gov](mailto:dataportability@ftc.gov).

16                   I'd like to introduce my panelists. In the  
17 interest of time, I'm going to keep to very brief  
18 introductions, but I highly recommend you read their  
19 full bios on the event page to learn more about their  
20 impressive work.

21                   First is Erika Brown Lee. Erika is Senior  
22 Vice President and Assistant General Counsel at  
23 Mastercard, where she is the global lead for the  
24 company's privacy advocacy efforts, including  
25 cybersecurity, and led the team that provides guidance

1 and ensures compliance with privacy and data  
2 protection laws across the company's products and  
3 services.

4           Next, we have Sara Collins. Sara Collins is  
5 Policy Counsel at Public Knowledge, focusing on  
6 privacy, data and platform accountability. Public  
7 Knowledge is a public interest advocacy organization  
8 with a mission to promote freedom of expression, an  
9 open internet and access to affordable communication  
10 tools and creative works.

11           Next is Bennett Cyphers. Bennett is a staff  
12 technologist at the Electronic Frontier Foundation and  
13 works on the tech projects team. EFF is a nonprofit  
14 organization working to preserve and enhance civil  
15 liberties in the digital world, promoting privacy,  
16 free expression and innovation online through  
17 activism, technology, products, law and policy.

18           Next is Michael Murray. Michael co-founded  
19 the Mission:data Coalition in 2013 and serves as its  
20 president. Mission:data advocates for data  
21 portability in the power sector in order to promote  
22 energy efficiency and reductions in carbon emissions.

23           And, finally, last but not least, is Julian  
24 Ranger. Julian is Executive President and Founder  
25 of digi.me, a decentralized personal data solution

1 that is operational today.

2 Thank you all for joining me today.

3 Let's get right to it. We've got a lot of  
4 interesting topics to talk about.

5 Sara, if I could ask you to get started.  
6 I'd like to talk about privacy first. And can you  
7 tell us a little bit about Public Knowledge's work in  
8 the area of data portability, and then also kind of  
9 describe some of the privacy concerns data portability  
10 may present, in your opinion.

11 MS. COLLINS: Thank you, Jarad, and thank  
12 you to the FTC for having me here today. So to think  
13 about data -- think about Public Knowledge as our work  
14 in data portability, it's important to think about our  
15 values, which is open access to the internet, free  
16 expression. So data portability for us is a mechanism  
17 to either promote consumer welfare, to improve  
18 competition in the tech space. So we look at data  
19 portability as a tool. It's a means to get to an end  
20 we're looking for.

21 So in that case, we want to make sure any  
22 data portability regime or scheme protects the privacy  
23 of users. We already know from privacy work -- I  
24 mean, if any of you have been following this in the  
25 day-to-day, that privacy harms are running rampant.



1 We have seen loss of opportunity. We've seen -- we've  
2 seen economic harms. We've seen all sorts of harms  
3 arising from privacy violations. So when we evaluate  
4 data portability, we think about it in a sense of,  
5 one, is it giving consumers autonomy; and, two, does  
6 the scheme that's being proposed sufficiently protect  
7 privacy and sufficiently do that in a way where  
8 consumers can trust that when they share their data  
9 they're only sharing it for the purpose of trying a  
10 new service or moving their data to a service that  
11 better meets their needs.

12 MR. BROWN: Thank you, Sara.

13 Erika, can I turn to you next? Could you  
14 talk about data portability at Mastercard and how are  
15 you thinking about privacy, both for existing data  
16 portability requirements you're under as well as  
17 future proposals?

18 MS. BROWN LEE: Sure. And, thanks, Jarad,  
19 for putting this great panel together, and to the FTC  
20 for hosting a day on this important topic. So as a  
21 technology company and a payment network, Mastercard  
22 doesn't actually issue cards, credit cards. That's  
23 done by our customers, who are the banks. And we do  
24 have a product and take a very consumer-centric  
25 approach with respect to privacy and our practices.

1           And so if I could start by just talking a  
2 little bit about those because they fit into our  
3 discussion.

4           Last fall, we launched what we call the Data  
5 Responsibility Initiative, which is grounded in four  
6 principles. First, that consumers, individuals, own  
7 their own data. Second, that individuals control  
8 their data and have the right to understand how their  
9 data is used. Third, that individuals should benefit  
10 from the use of their data. And, fourth, really is  
11 from a security prospective in that individuals data  
12 should be protected and used responsibly.

13           So data portability is really about, for us,  
14 we think about giving individuals more control over  
15 their data. And it's an important tool and a way in  
16 which that really makes sense with respect to the  
17 expectations that individuals have around their  
18 data. And ideally when it works data portability has  
19 that potential to not only open up possibilities for  
20 consumers, but to enable business innovation and  
21 competition.

22           And so at Mastercard we have a consumer-  
23 facing, public-facing portal that we call the My Data  
24 Portal where any individual can go to make a request  
25 to access their personal information and then receive

1 it in a portable form.

2 In terms of just the current legal  
3 requirements, we've heard a lot today about the  
4 existing regimes, including GDPR and the CCPA, both of  
5 which have certain limitations with regard to scope in  
6 terms of, you know, what data portability applies to.

7 And really with respect to those laws and  
8 any privacy laws, it requires companies to do a very  
9 deep assessment in terms of what the data they have is  
10 and how that data is maintained in order to be able to  
11 comply with privacy laws, but the difference with data  
12 portability law requirements is that technical aspect,  
13 because you have to do a sort of deep assessment from  
14 a technical prospective of how to make data available.

15 With regard to future laws and some of the  
16 proposals that are on the table, you know, we see  
17 various legislatures across the globe contemplating  
18 different, you know, ways of addressing data  
19 portability. You know, they're not necessarily  
20 homogeneous, though, and so there is that potential  
21 for divergence, which then would, you know,  
22 potentially affect the ability for companies to  
23 provide that data in a portable way.

24 And this goes toward that point that we've  
25 heard about a lot today with interoperability, which

1 is the key to creating an environment that is  
2 compatible not just within an industry but across  
3 industries so that the principles that we see around  
4 data portability are consistently applied, even if  
5 there are sectoral differences.

6 And then I'll just wrap up by saying that as  
7 part of the conversation there should be consideration  
8 of the ethical factors in terms of how we think about  
9 data portability. And it's not so much just whether  
10 you can but whether you should port the data. So I'll  
11 pause there. Thanks, Jarad.

12 MR. BROWN: Thanks.

13 Michael, if I could turn to you next, could  
14 you tell us a little bit about your background and  
15 work in energy sector data portability, and then how  
16 does privacy come up in that space?

17 MR. MURRAY: Thank you, Jarad. And thanks  
18 to the FTC for holding this. This is a really great  
19 workshop today. So, Mission:data is a nonprofit  
20 coalition of about 30 technology companies that  
21 provide energy management services to homes and to  
22 businesses. Many of you may be familiar with the use  
23 cases around banking and healthcare that have been  
24 talked about so far today, but you may not be familiar  
25 with the use cases in the energy sector.

1           So let me just give you a quick example.  
2    You may have heard about the blackouts that occurred  
3    in California about five or six weeks ago. There were  
4    some record-breaking temperatures that created a  
5    supply crunch; power went out for just about a couple  
6    of hours. And one of Mission:data's member companies  
7    has turned energy conservation into a game that sort  
8    of directly helps keep the lights on in California.

9           So if you save energy in your house, for an  
10   hour here or an hour there, you can earn points that  
11   were redeemable through the software application for  
12   cash or gift cards. And in aggregate, there were over  
13   100,000 households participating across the state.  
14   They delivered several hundred megawatts of demand  
15   reduction to the California wholesale power market and  
16   literally helped keep the lights on for millions of  
17   Americans.

18           So the way that this works is that a demand  
19   response aggregator, as we call it, gets the  
20   customer's permission to share usage data that's held  
21   by the electric utility. And once utility provides  
22   the usage data, the aggregators goes to the wholesale  
23   market and says, you know, energy usage across this  
24   fleet of homes, you know, was X, and then I  
25   intervened, and now it's Y. And so that delta X minus

1 Y is what you get paid for for delivery by the  
2 wholesale market.

3 And so consumers win. They get a share of  
4 that revenue. Costly power plants don't need to be  
5 built, and we can use this demand flexibility to  
6 increase the amount of renewable energy sources on the  
7 grid.

8 So data portability for me is really  
9 important among electric utilities because of  
10 climate change. I don't know about you all, but we've  
11 been living in smoke out here on the west coast ever  
12 since Labor Day. It's one of the warmest summer on  
13 record and unfortunately it's probably going to be the  
14 coldest summer for the next 100 years. So this is  
15 something that really concerns me.

16 And data portability is tricky in the  
17 electric sector because we have over 3,500 retail  
18 electric utilities. Some are regulated by states,  
19 some by municipalities and some by cooperative boards.  
20 It's a diverse patchwork and it makes it very  
21 difficult to establish standards, whether we're  
22 talking about API standards, informed consent  
23 standards or privacy standards.

24 So as for privacy, I have always believed  
25 that I think you can be both pro-privacy and pro-

1 customer choice at the same time. Incumbents, the  
2 utilities in my case, often inflate the real privacy  
3 risks. And we heard a bit -- a little bit about this  
4 earlier in the day. Some privacy concerns are, of  
5 course, very legitimate, but others are exaggerated  
6 and I think serve some pretty nakedly anticompetitive  
7 purposes. With residential energy usage data, there  
8 are Fourth Amendment search issues when law  
9 enforcement is involved. We absolutely understand  
10 that. However, if a customer wants their information  
11 shared and it's opt-in, it's really untenable these  
12 days for a utility to say, you know, no, we're not  
13 going to allow that. And so the debate in the  
14 energy sector really hasn't been should a customer be  
15 able to share his or her data, instead it's about the  
16 method, about how that's accomplished both in terms of  
17 technical exchanges, API standards and most  
18 importantly the user experience issue and whether the  
19 user experience is -- you know, leads to fully  
20 informed consent.

21 MR. BROWN: Thank you, Michael.

22 Julian, if I could turn next to you, your  
23 company is a solution for porting data between  
24 numerous services. Could you tell us a little bit  
25 more about that and the other work you've done in this

1 area and then give us the thoughts about how you're  
2 thinking about enabling data portability without  
3 undermining privacy.

4 MR. RANGER: Certainly. So at digi.me, we  
5 use data portability today both explicit and implicit,  
6 because it's not everywhere. I'll try and explain why  
7 and how. So the most important thing is that all of  
8 the future capabilities we as citizens, businesses,  
9 governments and society are looking for actually  
10 require us to share more data and better data as  
11 individuals, not less. We can't do a lot of the  
12 future things without sharing more. So we have to  
13 find a way that's private, secure and consented.

14 And an obvious example is precision or  
15 personalized medicine where I may need to share my  
16 health data since I was born, my advanced wearables,  
17 my genomics, the food I buy and eat, even my social  
18 data is a good indicator of my mental state.

19 But how do I do that? I can't. How can  
20 anybody get their hands on that because it's all  
21 locked away in different data silos. And even then,  
22 how do I control it? And that's where we come in as  
23 what's called a data facilitator, or my data operator,  
24 as your librarian and your postman, and to do that  
25 fully privately, fully securely and with consent.



1           So we enable you to get a full copy of your  
2 data. And we're just like an email program in many  
3 ways. You download an email program to your device,  
4 authenticate your 2-3-4 email channels and then a  
5 miracle happens, all your data is there. Well, it's  
6 the same with digi.me. You download digi.me, you  
7 connect to your various sources of data, and we've got  
8 health and bank and wearables and media and social.  
9 You authenticate and then your digi.me gets a full  
10 copy of your data, normalizes it, and then you choose  
11 where to store it. So you choose. It's all fully  
12 encrypted with your own encryption. So you actually  
13 end up with a full copy of your data. Nobody else has  
14 it. Nobody, not any of the big five, have as much  
15 data as you end up with yourself. And it's 100  
16 percent private because only you have it. And it's  
17 fully secure because it's all encrypted with a key  
18 held only on your device, so fully decentralized.

19           So now the other thing that we do then is  
20 provide a full consent stack enabling any business or  
21 service to ask you for elements of that data for a  
22 value exchange that you agree with and that might be  
23 different for lots of different people.

24           And if you say yes, your digi.me extracts  
25 just the data that's covered by the consent

1 certificate and passes it securely to the Apple  
2 service, which actually may be fully on your device.  
3 So your data doesn't have to get repromulgated around  
4 the universe. Imagine most of the things can be done.  
5 My diabetes service can be on your device, or the bank  
6 service can be on the device.

7           Now, it's really important that that value  
8 exchange, because you received your data by data  
9 portability, but then when you pass it on, it's  
10 dependent on -- and I use the words from GDPR,  
11 explicit and informed consent. And so we use the  
12 certificate that's been designed over many years to  
13 meet that bar and actually exceed it. And it says  
14 explicitly what the data will be used for, whether it  
15 will be processed on a device or taken off a device,  
16 whether it will be shared with third parties; if so,  
17 who and why, and more details including your ability  
18 because you own the data now to actually see the data  
19 you're going to share before you share it.

20           And then, most importantly, because we're  
21 really worried about reuse, of course, but that  
22 certificate is a legal contract. If the receiving  
23 party uses the data other than as stated in the  
24 certificate, then it's a breach of contract law,  
25 in addition to any privacy breach. And that's -- the

1 penalties are significantly harsher.

2           So if we actually look at it, we can  
3 actually meet all of the future requirements for data  
4 exchange by not thinking about data going from Company  
5 A to Company B, and so on and so forth, all those  
6 complications, but just straight to the individuals.  
7 Now, we're one of the world-leading data facilitators.  
8 There are others. And you bring the data to the  
9 individual who build the best composite view of all of  
10 their data and over time, and then shares it when  
11 companies ask for them and the data can be local. So  
12 if we look today -- and I mean today -- we enable  
13 U.S., European and Australian citizens to aggregate  
14 more data on themselves and to subsequently share it  
15 than any company has today, including the top five.

16           So if you think Facebook and Google and  
17 Apple have a lot of data on you, you can have more  
18 data yourself today. So effective data portability  
19 exists today. But as we'll discuss as we go through  
20 this session, we can and should do more.

21           MR. BROWN: Thanks, Julian.

22           Bennett, if I could turn to you next, could  
23 you talk about your work and your organization's work  
24 in data portability, and also address whether we have  
25 the solutions, in your opinion, for other privacy

1 problems data portability can present, or are there  
2 outstanding questions about how sort of get to yes on  
3 data portability?

4 MR. CYPHERS: Sure, yeah. So the way EFF  
5 looks at data portability is, I think, through two  
6 separate lenses. The first is as like a user rights  
7 issue and as a user control issue. And so just kind  
8 of at a bare minimum people who generate data, people  
9 about whom data is generated and stored by companies,  
10 should have the rights to see, to download, to  
11 manipulate, to use that data however they want.

12 The second lens is competition and  
13 innovation. And so as a lot of people have already  
14 said, there are competition issues where large walled  
15 gardens can get access to tons and tons of data from  
16 tons and tons of different people and then use that --  
17 monetize that data, use it as sort of anticompetitive  
18 cudgel against their competitors, and kind of act as  
19 jealous dragons sometimes sitting on top of their data  
20 hordes and refusing to share it with their users or  
21 with other smaller companies who would like to use it  
22 for other things as well.

23 And so data portability can go a long way --  
24 data portability mandates and good data portability  
25 standards and practices can go a long way toward sort

1 of chipping away at those monopolies and making the  
2 marketplace more competitive and more innovative.

3 So in terms of the challenges associated  
4 with data portability, I think there are some privacy  
5 issues with -- around, like, forcing companies to make  
6 data portable, for opening up laws so that small  
7 innovators like digi.me and their friends can do more  
8 to extract data on users' behalf, but for the most  
9 part those issues are just sort of microcosm of the  
10 privacy issues that we already face.

11 As Sara was saying, the world is not a  
12 private place right now. There's a lot of data  
13 flowing around, and the vast majority of the time, I  
14 think, users don't have enough control or knowledge  
15 about what's happening with their data already, and so  
16 data portability might in some cases sort of bring  
17 attention to or exacerbate the existing privacy issues  
18 with the internet today. But I don't think it's going  
19 to create many new privacy issues. And a lot of time  
20 I think, like, the idea that a user being given access  
21 to their own data is going to create more privacy  
22 issues than, like, the status quo where data is being  
23 collected and shared about users without their  
24 knowledge or consent much of the time. It is a little  
25 bit -- it is often argued in bad faith by incumbents

1 who benefit from data not being shared enough.

2 And so I think Sara is going to talk about  
3 this more later, but our perspective is generally that  
4 we need good general privacy laws. User need to feel  
5 like they have rights to access their own data and  
6 that when companies are using their data to provide  
7 them products or services, those companies have  
8 certain responsibilities to handle that data in a way  
9 that is going to benefit the users.

10 And so we look at it as there's a general  
11 privacy problem and data portability brings attention  
12 to that problem, but we need to solve the bigger  
13 problem.

14 MR. BROWN: Sorry. Thank you, Bennett. And  
15 actually I'll redirect this to Sara, which is I'd like  
16 to open up a similar question to other speakers, you  
17 know, what are the privacy solutions that can help us  
18 with the data portability challenges or do you think  
19 there's too many questions here? And, Sara, could you  
20 take that first?

21 MS. COLLINS: Yeah. So, yes, definitely.  
22 We need comprehensive federal privacy legislation.  
23 And there's a couple of major benefits not just to  
24 portability but to the digital ecosystem at large.

25 First, we need something that makes sure

1 consumers aren't exploited for their data. This makes  
2 the internet ecosystem better. This also makes it  
3 easier to port for a couple reasons. One, you have a  
4 set of minimum standards about how data must be  
5 treated by all parties involved in a portability  
6 schema. Two, it removes a pretextual reason for a  
7 larger incumbent who may not want to share data for an  
8 anticompetitive reason to then share data.

9 Right now, a platform or a large competitor  
10 might look at the U.S. landscape, know that they  
11 aren't really covered by any privacy rules and say,  
12 frankly, I don't think I can open up APIs because I'm  
13 not sure my data -- this data will be safe. And  
14 that's a reasonable argument at the moment, or at  
15 least it is supported by the facts on the ground.  
16 If you remove that argument, you now have another  
17 reason or one impediment left to data portability.

18 One other thing I'd like to flag and  
19 something Public Knowledge has been thinking about  
20 is creating explicitly a digital regulator. And this  
21 regulator would act as a neutral arbiter for some of  
22 these pretextual reasons we've been hearing about.  
23 Peter Swire brought this up in the last panel. But a  
24 digital regulator with expertise, technical expertise,  
25 that can really make decisions sector by sector on

1 what data is needed to make portability worthwhile, is  
2 something bigger like interoperability needed; how  
3 these different markets work together, are so  
4 important to really getting an ecosystem that's safe  
5 and also respects consumers.

6 And just a final point I'd like to make,  
7 we've been hearing a bunch about, like, consumer  
8 consent or understanding of risk. And I don't  
9 particularly love that framework. I don't think  
10 consumers should be expected to understand each app's  
11 privacy policies and pros and cons. I think a  
12 reasonable expectation is that people are going to act  
13 with your data reasonably; that they're not going to  
14 do harm with it; that they're not going to exploit it.

15 And so I would love to see a regulatory and  
16 statutory ecosystem that supports that belief that  
17 consumers already have. We know people aren't going  
18 to read privacy policies because frankly they're  
19 unintelligible to nonlawyers. So let's do away with  
20 the fiction and let's create a system that creates the  
21 benefits of data portability while it also minimizes  
22 the privacy risks that Bennett's brought up.

23 MR. BROWN: Thank you. Before we switch  
24 over to other topics, I wanted to see if any of my  
25 panelists wanted to follow up on Sara and Bennett's



1 thoughts.

2 MR. RANGER: Yeah, just a quick point  
3 because I'm very much of the opinion that data  
4 portability actually reduces the privacy risk because  
5 it doesn't come in on its own, and it shouldn't come  
6 in on its own.

7 So if we look at GDPR, it came in with the  
8 explicit and informed consent. So you crack down hard  
9 on the tracking stuff which you're not consenting to.  
10 Now, GDPR does have three or four other uses when you  
11 can use data, and they're fair. But all of the  
12 illegal use, as we would say in Europe, of the data  
13 needs to be cracked down on. So therefore the way in  
14 which you get data is from the individual who gets it  
15 from data portability.

16 So actually data portability, which at the  
17 end of the day, even for all the big companies  
18 together, means that everybody can access more data  
19 and use more data. Right? But it's counterbalanced  
20 by that explicit and informed consent.

21 And, Sara, you talk about people don't read  
22 terms and conditions, and they don't. But that  
23 doesn't mean, say, you can't have a clear consent  
24 certificate. You just have to put the work into it.  
25 And we have and we've done it with Kantara Initiative

1 as well, and it is clear. And we've got years of  
2 evidence to show that. You can show people, but what  
3 you have to want is to make that your whole reason for  
4 being; that you want to make it clear for people. And  
5 if you want to make it clear, and therefore if you're  
6 a digital data facilitator, which is our whole role in  
7 life, then just like you want to make the electricity  
8 safe if you facilitate bringing electricity, you can  
9 make the sharing of your data safe and you can make  
10 people understand it.

11 But I just wanted to make the point that  
12 data portability comes with explicit and informed  
13 consent as the safety net.

14 MS. BROWN LEE: Yeah. And I just wanted to  
15 add, I mean, I think that that's really correct. And,  
16 you know, to your point, Sara, about the idea of  
17 privacy, you know, is not having as much, I think it  
18 really does come down to an issue of trust. And if  
19 data portability can be used in a way to enhance that  
20 trust, I mean, putting aside some of the security  
21 issues separately, but just from a control perspective  
22 in that, you know, we want to be able to port your  
23 data, to exercise control over your data, trust that  
24 you will be able to get your data from companies or  
25 from organizations, and then be able to exercise

1 control. I think that's really a good starting place.

2 But you can't really do that, I think,  
3 toward Julian's point, without having information  
4 about it. It has to be informed consent. And so you  
5 have to have that access base to be able to get the  
6 data and then be able to exercise control, which I  
7 think addresses some of those concerns about misuse or  
8 not having knowledge or awareness of how an  
9 individual's data is being used.

10 MR. BROWN: Thanks, Erika. And if I could  
11 unfortunately go right back to you, I think we need to  
12 switch over now to security. And I will say to the  
13 extent my panelists, if there's a thought that I  
14 didn't give you a minute to ask, I will not be too  
15 frustrated if you want to sneak it in as we talk about  
16 these other topics which I know have some important  
17 overlaps. But let me switch now to the topic of  
18 security concerns and actually turn right back to you,  
19 Erika, as I said. Could you kick us off by talking  
20 about the security concerns, some of which we heard  
21 earlier in the day, that data portability efforts can  
22 really introduce.

23 MS. BROWN LEE: Sure. And, I mean, I think  
24 all of these topics are related. Security is that  
25 critical pillar of data portability. And so, you

1 know, and certainly for us, you know, it's part of our  
2 commitment with respect to data practices. As you  
3 mentioned, Peter Swire did refer to some of the pieces  
4 of security and how they come up. And so, you know,  
5 building upon that, it certainly, for us, comes up in  
6 the aspect of -- well, first for authentication and  
7 verification of the request itself. The financial  
8 services industry certainly has a lot of experience in  
9 preventing and monitoring and detecting fraud, and so  
10 that's really crucial in terms of the security piece  
11 for any data sharing circumstances.

12 But it goes back also to a point I raised  
13 earlier, which is understanding the type of data that  
14 you have and that would be part of what would be  
15 provided to individuals is critical because from a --  
16 you know, from a corporate perspective,  
17 operationalizing the security piece requires an  
18 understanding of the different types of data so that  
19 you can build in those security steps and appropriate  
20 verification steps as part of that process.

21 And so, you know, the consumer-centric or  
22 individual-centric approach ensures that really from  
23 the start that the transfer and the port of data is  
24 coming from a place of consumer or individual requests  
25 and making sure that it's not only at their request,

1 but also for their benefit.

2           The second part that really comes into play,  
3 of course, with the security piece of data portability  
4 is the transmission itself. And so, you know, there  
5 are certain regimes that do talk about the types of  
6 mechanisms to ensure the security in transit, the  
7 guidance around the GDPR, from Article 29 Working  
8 Party Statement mentions encryption. That's something  
9 that has been raised in other panels. And so that's  
10 an example of where you see, you know, protection of  
11 data that's in transit.

12           I do think that it is important when you  
13 talk about security that you address that flip side,  
14 which is what happens if it doesn't go right and, you  
15 know, liability is triggered. And so thinking about  
16 the norms for how liability is evaluated is a bit more  
17 complex because we were talking about -- or it was  
18 mentioned earlier in other panels that there is sort  
19 of sectoral approach and very different approach in  
20 different jurisdictions. So not just, of course, with  
21 GDPR, but for financial services, the Payment Services  
22 Directive, or PSD2, is one of the sectoral laws that  
23 also comes into play.

24           And so when you think about the liability  
25 perspective, you have the data breach notification

1 requirements, whether it's GDPR or CCPA or any of the  
2 54 jurisdictions across the U.S. that have  
3 notification laws, and how they intersect with other  
4 sectoral regulations becomes a very nuanced and  
5 jurisdiction-specific exercise.

6           There is an argument to be made for viewing  
7 from the perspective, especially if you're looking at  
8 a company that has data moving across borders, looking  
9 holistically at all of the rights that are available  
10 to individuals under the various regimes, whether it's  
11 access, deletion or portability, and looking  
12 holistically from a sort of 360-degree view of how to  
13 implement the structure and a process for addressing  
14 compliance for all of those rights in a way that works  
15 seamlessly and reduces friction for consumers.

16           So that's the way we think about it in terms  
17 of from a liability perspective. But, of course,  
18 going back to the first part, the verification  
19 identification, you know, making sure that that part  
20 is particularly strong, hopefully avoids the liability  
21 pitfalls in the second instance.

22           MR. BROWN: Thanks, Erika.

23           One of my goals of my panel is to really  
24 give my great speakers an opportunity to kind of  
25 illustrate how these things are coming up in some very

1 different contexts that they're all kind of working  
2 and thinking about. So I'm not going to be overly  
3 prescriptive with this next question. What I want to  
4 open up to all of you is, how are you thinking about  
5 it in the various spaces you're working about  
6 reconciling the security and liability concerns, and  
7 what solutions are you thinking about or have you seen  
8 that work to move forward.

9 And, Michael, maybe you could start off and  
10 talk about this in the energy space.

11 MR. MURRAY: Sure. So I tend to think of  
12 security as being downstream from liability. I'm a  
13 former, you know, start-up entrepreneur; ran a  
14 software company doing energy management. And the  
15 security problems are really solvable in my sector.  
16 Information needs to get securely from A to B, and  
17 that's really not that difficult. Totally, totally  
18 solvable, did that a long time ago.

19 But the liability really, really matters.  
20 So the electric utilities typically do not have  
21 specific requirements, technical requirements, around  
22 security that they have to meet for handling customer  
23 data. You know, there's a broad range of, you know,  
24 legal regimes and liability that they have, and that  
25 sort of drives -- you know, drives the particular

1 security measures that they take. And one of the  
2 models that I think has worked really successfully  
3 that I wanted to mention is California. So long  
4 before CCPA in 2011, the California Public Utilities  
5 Commission adopted some really excellent privacy rules  
6 which gave customers the right to share their data  
7 with anyone, but most importantly the rules immunized  
8 the utilities from a third party's privacy breach.

9           And this was absolutely critical. So if a  
10 customer wants to share their data with Acme Energy,  
11 let's say, and Acme Energy, after the transfer has  
12 already happened securely, has a subsequent breach,  
13 then the utility has no liability for that Acme  
14 Energy's behavior. And that was really important  
15 because no one wanted the electric utilities to be the  
16 enforcer, to be the market policemen. The utilities  
17 didn't want that, the energy management companies  
18 didn't want that, and so, you know, that's where we --  
19 you know, the liability shifted to one of -- you know,  
20 it's whoever causes the harm is the one who is  
21 responsible for it. And I think that's just a  
22 framework that makes a lot sense and one that we've  
23 been advocating for in other states.

24           MR. CYPHERS: If I can jump in as well --  
25 sorry, Julian. Yeah, yeah, I want to just sort of



1 "plus one" a lot of what Michael was saying. I think  
2 in some context it definitely does make sense for  
3 there to be liability for when a company shares data  
4 with another company and the other company does  
5 something bad with the data; for example Facebook, in  
6 Cambridge Analytica. But I think in a lot of those  
7 contexts, the reason that the company that does the  
8 sharing should be liable is because they did the  
9 sharing in a way that was not in the user's best  
10 interest and without the user's complete consent or  
11 knowledge of what was going on.

12 But in a portability context, the company  
13 that does the bad thing, whether it's accidentally  
14 releasing data to the public through like a database  
15 breach or something, or exploiting it in a way that  
16 users don't like, the person who does the bad thing  
17 should be liable.

18 So another point on security is I think when  
19 we start thinking about putting this kind of thing  
20 into law or regulation and, like, say, creating a new  
21 portability mandate and attaching some sort of  
22 security guidelines to it or something like that, one  
23 thing we want to be wary of is overspecifying the way  
24 security should work in law, because security is a  
25 moving target. There is no such thing as a right set

1 of security practices for the world for even a  
2 particular industry, and definitely not over time.  
3 Like, things are always changing. And I think in this  
4 case companies are -- the companies who are actually  
5 working with data and working with users are usually  
6 best positioned to make judgments about what kinds of  
7 security their customers need. Obviously they have to  
8 have the right goals in mind, like companies are not  
9 just going to build really robust security  
10 infrastructure if they don't have to and if there's no  
11 incentive for them to.

12 But I think if the incentives are aligned  
13 properly and companies who do mishandle user data are  
14 going to be liable in the right kinds of ways, then  
15 the government shouldn't get overinvolved and say,  
16 like, oh, you have to use like AES 256 and you have to  
17 use this kind of encryption and you have to, like, do  
18 this exact series of events to authenticate users.  
19 Because I think a lot of times that ends up being  
20 counter-intuitive and it can actually freeze in place  
21 security practices that might sound reasonable at the  
22 time something is written but are out of date a year  
23 or two years, and definitely five or ten years later.

24 MR. RANGER: I'd probably like to "plus one"  
25 what Erika, Michael and Bennett have all said for

1 various different reasons, but I want to go a bit  
2 further. So clearly the originator, when you're doing  
3 data portability, is responsible for the  
4 authentication security, et cetera, as Erika said.

5           Clearly, as Michael said, when a company  
6 gives the data back to an individual, an individual  
7 says give it to the other company, the originating  
8 company can't then be responsible for use. The  
9 individual has taken that responsibility but through  
10 explicit and informed consent.

11           But the look at the security. And what I  
12 want to make as a really strong point is -- and I  
13 would almost finish with it, but I'll start with it,  
14 It isn't a show stopper to data portability and can be  
15 fully managed, and we've proven that -- and we're just  
16 one company. Lots of companies have done it.

17           So at digi.me, we don't see, touch or hold  
18 individual's data at all. It goes to the individual,  
19 decentralized to the individual, which of course  
20 greatly reduces the security threat itself. All data  
21 is encrypted to a very high standard, and only the  
22 individual has the key.

23           There's a lot more we have to do with data  
24 at rest and it being passed around. But we've been  
25 audited by governments -- UK, Dutch, Iceland and

1 various others. We had a wonderful study run by a  
2 company called Control Shift in the UK last year with  
3 five blue chip companies and the UK government looking  
4 at all of data portability and everything else. And  
5 they came to one stunningly simple conclusion: It can  
6 be made secure and safe. And they looked at us and  
7 they audited through everything else.

8           The EU, though, is saying, you know what,  
9 when you've got a company like digi.me or a data  
10 intermediary, the individual has to trust them. So  
11 they are looking at whether or not there should be  
12 appropriate certification of companies that are acting  
13 as a data intermediary because we're helping handle  
14 all of this data. And I support that. But as Bennett  
15 said, don't say exactly how to do it. Do it like ISO  
16 27001 does for security. Just state the principles  
17 and the company is audited to the principles. And  
18 that works across everything.

19           So, yes, security is an issue, but it's only  
20 an issue because it's an issue whenever you're dealing  
21 with data and it's totally, totally solvable and not  
22 difficult as a concept. Obviously, you want to be  
23 careful how you implement it.

24           MS. COLLINS: So just to sort of put a  
25 button on this, I completely agree with Bennett and

1 Julian and Michael. I think actually everyone has  
2 said this, that security is a bit of a moving target  
3 and has to be. Therefore, enshrining it in the law,  
4 especially the way the American legal system works,  
5 it's a really bad idea.

6 But I think this makes a very good argument  
7 for a technical regulatory that either can put out  
8 guidance or something like NIST, which can update  
9 companies on the latest security standards. Because I  
10 think having, again, an outside arbiter that can say,  
11 like, bare minimum, especially depending on your  
12 regulatory sector, what data you have -- house,  
13 finances, education data, et cetera, is super  
14 important.

15 And while I'm sure companies could come up  
16 with a solution among themselves about what sort of  
17 data and security standards we'd want them to use,  
18 having a sort of trusted outside party, a governmental  
19 regulator, do at least some of that work or verify  
20 some of that work can really improve trust in a  
21 system.

22 MS. BROWN LEE: So can I just make another  
23 point there? I mean, it sort of underscores what  
24 we've been saying, but companies can innovate with  
25 respect to security, as well. I mean, I think, you

1 know, you always think of it in terms of products and  
2 what not. But I think however it's -- you know,  
3 however we approach this, the incentives need to be  
4 there to encourage that because I think that, you  
5 know, there are ways in which companies can really  
6 develop and be on the cutting edge of innovative  
7 security, you know, practices. And so we want to make  
8 sure that that's not, you know, stifled in any way. I  
9 just really want to just underscore that.

10 MR. BROWN: Thank you, thank you all.  
11 Before we switch topics, on the last panel some of you  
12 may have heard Peter Swire talk about one of the  
13 issues coming out of security of this -- of it being  
14 pretextual. I mean, I know we've talked about this a  
15 little bit already and in the privacy context, but I  
16 wanted to get your sense, at least Michael and Sara, I  
17 know you guys have thoughts on this, on how we might  
18 be thinking about distinguishing between those  
19 legitimate security concerns and those that might be  
20 just a pretextual barrier. Are there things we can  
21 look to to try to differentiate that or other  
22 solutions?

23 Maybe, Sara, do you want to start?

24 MS. COLLINS: Sure. I mean, so I think  
25 Peter sort of hit it right on the money. If within a

1 preferred network or within a selection of companies  
2 that the data holder might prefer, there's incredibly  
3 easy transfer and the security standards aren't as  
4 high as the standards they put for outside third-party  
5 sharing. That's a really big red flag.

6 I think another thing that could be a big  
7 red flag in the security context is not making it  
8 clear to competitors or to data users who would want  
9 to do this, what set of security standards you're  
10 operating on, like whether you follow, like, a sort of  
11 -- a set of NIST security standards, like what your  
12 best practices are, so that they can be met.

13 If it's a moving target or it's really hard  
14 to comprehend, or if it's not clear or maybe it  
15 changes depending on who's talking to you, that's a  
16 pretty good indication that it's probably pretextual.

17 MR. BROWN: Michael?

18 MR. MURRAY: Yeah, I think Professor Swire  
19 had a great point. This sort of differential  
20 requirement comes up with utilities quite a bit; for  
21 example, with authentication requirements. So if the  
22 utility is trying to authenticate you so that you can  
23 pay your bill, your monthly utility bill on time, they  
24 make that extremely easy and there's a very minimal  
25 set of authentication requirements, your account

1 number, maybe your telephone number and that's it.  
2 But then when you want to share your data with another  
3 entity, they throw the book at you. And there's --  
4 you know, you need to know, oh, what was it, it's like  
5 my cat's maiden name or something like that. There's  
6 all these pieces of information that you need to  
7 require. And that's just a very simple -- you can  
8 just look at those two requirements and say if they  
9 don't match, well, then it's probably -- there's some  
10 anticompetitive impulse here that needs to be, you  
11 know, squelched.

12           And the second thing is, just to tell a  
13 brief story, I asked a utility last week to -- they  
14 had proposed a data-sharing system for third parties  
15 with permission; it sounded great. And I said, well,  
16 tell me what are your requirements for these third-  
17 party recipients. And they said -- you know, they  
18 gave me some standard forms, which was expected. And  
19 then they said, you also have to agree to company  
20 cybersecurity policies. And I said, okay, well, give  
21 me a copy of those cybersecurity policies because my  
22 members have to meet those requirements.

23           And this is when the utility, who will  
24 remain nameless, said, sorry, that's all confidential.  
25 And so, in my experience, these cybersecurity concerns



1 are -- it's really about wielding power and control.  
2 It's not really about your security requirements. If  
3 you have to hide your security requirements, they're  
4 probably not legitimate. We know that security  
5 through obscurity doesn't work.

6 MR. BROWN: Thank you, both. I'm hopefully  
7 not cutting anybody off, but I'd like to move now to  
8 another kind of intermediate topic that really I think  
9 elides security as well as standardization -- and I'm  
10 going to ask Bennett maybe to discuss this at first.  
11 And that's the issue of credential sharing, or as  
12 other panelists today have called screen scraping.

13 Bennett, could you explain a little bit,  
14 what is this idea of screen scraping and how does it  
15 fit into the subject of data portability in your mind?

16 MR. CYPHERS: Sure, yeah. So screen  
17 scraping in general is this practice of one company or  
18 anyone, really, running, like, a headless browser or a  
19 piece of technology that's instrumented to look like a  
20 regular human user interacting with a website or with  
21 an app. But that actually is automated and can scrape  
22 or collect data from an interface that is designed to  
23 be interacted with by humans.

24 So this is, like -- this comes up in a lot  
25 of different contexts, but with portability, it

1 usually means, like, something like Plaid or Mint,  
2 where you have an account with, say, a bank or a  
3 different kind of institution and you want to access  
4 the data -- you have some data in that institution  
5 that you can access through, like, some sort of web  
6 interface, but you want to grant access to it to  
7 another company who can, like, do some cool analysis,  
8 or reformatting of that data on your behalf.

9           And so what you do is you might grant -- you  
10 might give your credentials to an intermediary. That  
11 intermediary will take your credentials and log into  
12 the bank or other company on your behalf, and, like,  
13 use a headless browser to read the data from a human-  
14 readable webpage into a computer, and then do whatever  
15 they want with that data, or hopefully whatever the  
16 user wants.

17           So this is -- this is a practice that is  
18 part of a broader sort of set of practices that we  
19 like to call a competitive compatibility. And this is  
20 where, like, one company or organization has  
21 information that a user might like to use in a way  
22 that the company doesn't allow or doesn't support.  
23 And other companies can step in and say, like, hey,  
24 you know, your bank's not going to do this thing for  
25 you, but we can do it on your behalf. And so we're

1 going to -- even though the bank doesn't offer, like,  
2 APIs or technology to do this specific thing, another  
3 company can work around -- work with what the bank  
4 does offer, which is often a webpage or an app, and  
5 find ways to use that information in new and creative  
6 ways for new and creative products that users might  
7 like.

8           And so screen scraping is sort of one  
9 technique that's often used for competitive  
10 compatibility purposes. Obviously, it can be used for  
11 nefarious purpose as well, and this goes back to,  
12 like, the need for comprehensive privacy law to make  
13 sure that when you do grant your credentials to  
14 someone and say, like, hey, like I want to see a cool  
15 spreadsheet with all my data in it, they're not going  
16 to turn around and, like, use your password for other  
17 stuff or sell your data to someone else without your  
18 knowledge or consent. I hope that's a decent  
19 introduction.

20           MR. BROWN: Thank you. I'd like to give  
21 other folks -- and, Bennett, you can add to it as well  
22 if you have more to share -- just a quick chance to  
23 talk about how does this play a role in data  
24 portability. Is it effective? Can it be a way to not  
25 have to deal with the problem of standards? You know,

1 what do you guys think of it? Maybe Michael -- sorry,  
2 Julian, did you want to start?

3 MR. RANGER: Yeah, I was just going to jump  
4 in if you don't mind. I don't think it replaces  
5 standards or whatever. Look, if asked the question,  
6 are APIs a better alternative than screen scraping for  
7 data portability, the answer is yes, a thousand times  
8 yes. Right?

9 Screen scraping is the last possible thing  
10 that you want to do. You're giving your credentials  
11 to a third party, and that may be abused. It may open  
12 up liability to the data originator because nobody's  
13 approved it. It's no good. But -- and here's the  
14 point: It has to be legitimate if the data source  
15 company isn't providing my data back to me in any  
16 other form. Right?

17 So if you had a law that was absolutely  
18 explicit that you had to have data portability via  
19 APIs, which is our recommendation, then you could ban  
20 screen scraping, and I think that would be a good  
21 thing. But in the absence -- if I can only get my  
22 data back or allow it to be used in another service  
23 through screen scraping, then, I'm sorry, that's what  
24 I have to be able to do.

25 So it is not the right answer, but it's an

1 adequate answer in the absence of data portability via  
2 APIs. And that's the key thing to say.

3 MR. BROWN: Erika, did you want to add  
4 something?

5 MS. BROWN LEE: Yes, yes. Thanks, Jarad.  
6 Just a quick addition, because it is a topic,  
7 obviously, that is, you know, very important in the  
8 financial services sector. And, you know, not  
9 everyone in the industry participates, but I wanted to  
10 sort of mention that there is work being done in the  
11 industry by the financial data exchange, or FDX,  
12 which, you know, is working to coalesce around common  
13 interoperable standards for the -- for an API, an FDS  
14 API, for consumers and businesses to access their  
15 financial data.

16 So, as Julian mentioned, when you have an  
17 API, you're not sharing the credentials like passwords  
18 and user names. That stays with the individual  
19 themselves. And the individual themselves gets to  
20 choose, you know, who and how their data is served,  
21 you know, or is ported or used.

22 So you have the advantage of API standards  
23 that would give consumers additional transparency,  
24 additional control, and it also addresses that  
25 security piece as we were just talking about, where,

1 you know, you worry about how it's being used onwards  
2 or by the intermediaries who get the data.

3 This, of course, if you don't -- or if  
4 you're not sharing the credentials or the passwords in  
5 the first place, it takes away a level of security  
6 threat risk. And so in light of those benefits,  
7 certainly there is -- you know, it's important to sort  
8 of think through and support standards that are  
9 developing within the industry. So we see that in the  
10 financial services sector, and that might be, you  
11 know, an example for other sectors as well.

12 MR. MURRAY: You were just on mute, Jarad,  
13 but I'll jump in. So screen scraping is really not  
14 ideal. A lot of companies use it in the energy  
15 sector. We don't want to. Nobody likes to do it,  
16 right? It's expensive. It can be buggy. It can be  
17 inconsistent. Utilities change their website; we have  
18 to accommodate it. It's just a silly cat-and-mouse  
19 game.

20 But the reason why it continues is, one,  
21 there isn't a good alternative, APIs. But I think  
22 there's a couple of other things that play at least in  
23 the utility industry. I think the utilities like  
24 having -- like screen scraping being sort of the only  
25 option because, you know, then they can, you know,

1 claim, you know, CFAA violations and get legal on  
2 these incumbents who are trying to access this  
3 information with customer consent. It's sort of --  
4 it's just a convenient way of, you know, running out  
5 the clock and, you know, incurring a lot of costs for  
6 those entities.

7 But I think there's another case that we  
8 also have to be careful of, which is where utilities  
9 can also manipulate screen scraping, too. So it's not  
10 that screen scraping is the best, always true source.  
11 There have been cases in the financial services where  
12 banks have, you know, started withdrawing information  
13 from their web portals because they didn't want that  
14 to be scraped and available to competitors.

15 And, similarly, we've seen a couple instances  
16 where utilities will say, oh, well, you know, we're  
17 only going to put your bills online if you agree to,  
18 you know, have ACH payments for your monthly utility  
19 bills. And so there's this, like, sort of withholding  
20 of information that can happen both in the API sector  
21 as well as getting data through screen scraping on  
22 these incumbents' websites.

23 MR. CYPHERS: Yeah, and so I could just make  
24 another couple of points. Screen scraping, as  
25 everyone has said, is never the best option. Like,

1 obviously, if there's some kind of data that you would  
2 like to port or use for a secondary purpose, it's  
3 always better, for everyone involved, if there is an  
4 API for that specific piece of data.

5           But where screen scraping comes in is when  
6 the data holder doesn't want to share that data, or  
7 they're not compelled to, or there's a law that says  
8 they should be sharing this data but they can find a  
9 way to interpret that law that says, oh, we don't  
10 actually have to share it in this form, or we don't  
11 actually have to share the critical piece of it that  
12 people need to make it useful.

13           And so screen scraping, I think our  
14 perspective is to disagree a little with Julian.  
15 Screen scraping should never be banned. There should  
16 never be a law that says that you cannot scrape a  
17 company's screens for this kind of data. You can talk  
18 about bans on specific uses of screen scraping, which  
19 is fine. But, I mean, EFF's position in general is  
20 that CFAA is an overbroad law that can be used to shut  
21 down a lot of very legitimate activities, screen  
22 scraping in a competitive compatibility context being  
23 one of them.

24           And the other reason it's important is  
25 because it -- like, regulations are really hard, new



1 regulations are really hard to create. And the tech  
2 sector, especially, is moving really fast, and there's  
3 going to be new kinds of data and new industries where  
4 people want to use their data for new things, and  
5 regulation is never going to be able to keep up with  
6 that no matter how much we might like to believe that  
7 it is. And so there's always going to be, like,  
8 things that people want to do with their data where  
9 there is not an API yet or it's not in a company's  
10 interest to make an API for that particular data, and  
11 regulators can't catch up fast enough to say, like,  
12 you have to make an API for this. And so keeping  
13 screen scraping as sort of a last-resort option that  
14 competitors can always fall back on we think is  
15 invaluable and actually necessarily.

16 And screen scraping as an option actually  
17 makes it beneficial, like, for data holders to create  
18 APIs a lot of time. And, like, we saw this in the  
19 financial services industry 10, 15 years ago, where,  
20 like, Plaid and Yodlee and Mint were scraping data  
21 from banks, and banks didn't like that a lot. But  
22 they realized that customers really liked the product  
23 that those aggregators were putting out. And so  
24 eventually that helped pressure them into creating  
25 these APIs that a lot of banks now do support, and

1 it's better for everyone, especially consumers.

2 MR. BROWN: Thanks, Bennett.

3 I'd like to shift us now to the last subject  
4 we want to talk about today, which is a critical one,  
5 and I apologize as a privacy and security lawyer for  
6 at all giving this short shrift. But we want to talk  
7 about standardization and interoperability and get  
8 your great thoughts on that.

9 All day we've heard speakers talk about how  
10 important these two aspects are to helping realize  
11 many of the benefits of data portability.

12 I want to start off with Julian. It's been  
13 a while since Peter Swire's presentation this morning,  
14 and I thought maybe you could talk a little bit about  
15 what are we talking about with the difference between  
16 these two concepts and their goals, and then how do  
17 you think they fit into data portability initiatives?

18 MR. RANGER: Okay. So I'm going to be a bit  
19 controversial here, because I believe totally in  
20 interoperability but want to see standardization  
21 delayed so that we get on with data portability and  
22 bring standardization downstream. Interoperability is  
23 different. Interoperability is the ability to  
24 effectively exchange data, not perfectly, but  
25 effectively. Standards help with that. But I can

1 create interoperability where there is no  
2 standardization, right, as a business.

3 We do that at digi.me. We normalize all  
4 data received by the individual no matter what data  
5 format it arrives in, all to a single normalized  
6 ontology, and that creates interoperability as any  
7 system using the data gets the data in a single form  
8 no matter what the input.

9 So if you use digi.me for health data, it  
10 doesn't matter whether it's U.S., UK, Dutch or  
11 Icelandic, you get it one form. No standards  
12 required. I can assure you that there's umpteen  
13 different implementations across that set, even though  
14 nominally most of them are following a standard called  
15 FHIR, but even then it wouldn't work. So you must  
16 distinguish between interoperability and  
17 standardization.

18 Now, standardization makes interoperability  
19 easier, so if more parties use the same standards and  
20 are really compliant to those standards -- that's the  
21 real key -- then my job at digi.me is made much  
22 easier, as is everyone's. But their standards are not  
23 a panacea. There are always interoperability issues  
24 even with standards. And I spent 20-plus years doing  
25 this for the military. I was called "Mr.

1 Interoperability." I made a large amount of money  
2 solving the problems. And standards help, but they  
3 don't solve all the problems.

4 So it's for that reason that I strongly --  
5 and I sort of say that strongly times 100 -- that the  
6 EU -- like the EU has done, data portability comes  
7 first, specifying something along the lines of a well-  
8 formed API but without specifying the standards. Get  
9 the data moving first, and then let businesses solve  
10 the interoperability problem, then get the standards  
11 developed and implemented for each sectoral area. But  
12 please, please, don't wait for standards before  
13 opening up the data or you'll never get to the new  
14 data economy you want.

15 And as a final cautionary tale, look at the  
16 -- and I'm sorry to do this to you, my colleagues and  
17 friends in Australia because we work there, but the  
18 Australians have the consumer data right, and it's  
19 adopted a standards-first approach to opening up the  
20 data, and it's frankly a mess. Right? It is a mess.  
21 It's heavily delayed, much to their economic  
22 detriment, across the whole thing. All right?

23 So in this case, follow the EU. Open up the  
24 data, well-formed API, any format, businesses will  
25 solve interoperability. But then really encourage --

1 and standards because we all want them, but let it  
2 follow opening up the data.

3 MR. BROWN: Thanks, Julian.

4 And I think -- my other panelists, I  
5 suspect, will have some interesting thoughts to  
6 respond to your suggestions. But I want to first turn  
7 to Michael to talk a little bit about your experience  
8 with standards in terms of how those have played out  
9 in the energy sector as an interesting case study, and  
10 what you're thinking and recommending for the future  
11 based off what's happened so far.

12 MR. MURRAY: So the standards and energy  
13 came, actually, out of the American Recovery and  
14 Reinvestment Act originally. There was some great  
15 work done by the FCC in the National Broadband Plan,  
16 which I hope folks are brushing that document off as a  
17 potential guideline for economic revitalization post-  
18 pandemic.

19 And one of the key principles, one of the  
20 key objectives, in the National Broadband Plan at the  
21 time was for every American to have access and the  
22 ability to share their real-time energy usage, using  
23 home broadband connections. That's from 2010.

24 And so that's sort of, again, a standards  
25 development process led by NIST, the Department of

1 Energy, Smart Grid Interoperability Panel, and others,  
2 and it resulted in the standard we now call Green  
3 Button. And it's -- you know, it's been used, the  
4 Green Button has been adopted as the API version of  
5 it, in about five states covering 36 million electric  
6 meters. There's about, you know, 120 million homes  
7 across the U.S. So, you know, it's a sizable  
8 percentage of the total.

9           And the standard was -- it was, yes, there  
10 was some important things technically to be done  
11 there, but to be honest, it was mostly politically  
12 important because it was -- the lack of a standard and  
13 the lack of federal involvement, you know, pre-2011 in  
14 this area was just a really great reason for the  
15 utilities to say, oh, you know, nobody can even agree  
16 on a standard, so let's not do anything; let's just,  
17 you know, pretend this whole issue disappeared.

18           And so I think that sort of political  
19 leadership helped make it possible, that there was,  
20 you know, buy-in from the government and industry and  
21 a lot of players.

22           Now, with that said, I think Julian is  
23 exactly right. Standard is just one tool in the  
24 toolbox. Just because, you know, two entities claim  
25 to follow the same standard doesn't mean you have true

1 interoperability. And one of the challenges that I  
2 think we have in energy that maybe you don't have in a  
3 sector like banking is that the banks have a bit of an  
4 incentive for interoperability, because although they  
5 might not like their information going to their  
6 competitors, they want to be able to get their  
7 customers' information that's held at their  
8 competitive financial institutions.

9           And so there's a bit of a backflow in terms  
10 of data that can benefit them. And utilities just  
11 don't have that incentive whatsoever. If I move from  
12 Baltimore to Florida, the Florida utility really  
13 doesn't gain any value whatsoever on my usage history  
14 in Baltimore, and so -- and that's why it's much  
15 easier for, I think, utilities to just sort of, you  
16 know, dig their heels in and say, you know, we're just  
17 going to do the bare minimum, provide the absolute  
18 bare minimum of data and maybe not even fully comply  
19 with the standard. And that's why I think there's a  
20 much bigger need for not necessarily standards  
21 development but standards enforcement.

22           MR. BROWN: Thanks, Michael.

23           I'd like to open it up now to my other  
24 panelists to respond to what you guys have both said  
25 in terms of examples and also maybe just address what

1 models you think work for getting us to  
2 standardization or interoperability and what should be  
3 first. And maybe, Sara, could you go first?

4 MS. COLLINS: Yeah. So, again, we are big  
5 proponents of interoperability. And while I  
6 appreciate what Julian said, I do think things happen,  
7 like what Michael's described, when there isn't a  
8 business interest to incentivize interoperability.  
9 You can imagine there's a large dominant social  
10 network which has all of the people on it. There is  
11 an up-and-coming social network that you or myself  
12 would like to try. However, no one else is on it. So  
13 you spend a couple of hours there, get nothing out of  
14 it and then go back. You may have even moved all of  
15 your data, too, so all of your photos and other things  
16 are there, but nobody else is there, either.

17 The large dominant platform has no incentive  
18 to create an interoperable system where you can post  
19 or interact between those two because it doesn't  
20 benefit them. So while I don't think there's anything  
21 wrong with sort of these organic systems coming up  
22 naturally, I do think where there's significant  
23 competitive concerns you have to get a mandate from  
24 either the legislature or a regulator, and you may  
25 have to do the really nitty-gritty standards process



1 to get it to move in order for it to be useful.

2 MR. CYPHERS: Yeah, I'd like to just give a  
3 huge "plus one" to what Sara just said. This is a  
4 portability panel, and we've talked a lot about  
5 portability. But to solve, I think, a lot of the  
6 bigger issues that we're looking at in the tech sector  
7 right now, especially around competition, portability  
8 is good but it's just not enough. It's not enough to  
9 be able to take your data, take, like, the names of  
10 all of your friends and move over to Martagon because  
11 none of your friends are going to be on it and  
12 Facebook -- sorry -- and the large incumbent social  
13 network has zero incentive to, like, allow you to  
14 interact with people off of its platform who don't  
15 have an account with the large incumbent social  
16 network.

17 And so it's about -- like, portability gives  
18 you this outflow of data. It lets people take their  
19 data and take it somewhere else, but you -- to have  
20 real competition and to undermine the network effects  
21 that can be so powerful in a lot of these sectors, you  
22 need the inflow. You need the other direction where  
23 the company has to say, like, yes, we will respect  
24 people who don't have accounts on our platform as real  
25 people and allow them to interact with our users on a

1 level playing field.

2           And I don't think it makes sense -- I don't  
3 want to get overbroad here and say, like, oh, every  
4 company that exists should have to do interoperability  
5 using these standards, but, like, when you have these  
6 giant, pseudomonopolist platforms that just control  
7 everything and it doesn't look like they're going  
8 anywhere anytime soon, I think those deserve special  
9 regulation to say, like, hey, you know, you have to  
10 play with these other up-and-coming platforms on a  
11 level playing field; you can't just have all your  
12 users and let inertia carry you forward forever.

13           MR. RANGER: Well, I suppose, Sara and  
14 Bennett, whilst I agree with you, that isn't data  
15 portability. That's a more broader competition point.  
16 And so I'm not going to disagree with you on the  
17 competition point at all.

18           But on the data portability point it would  
19 be dangerous, and that's why I'm saying. Because it  
20 would delay the availability of data, and that's the  
21 worst possible thing that could happen to us all.

22           MR. BROWN: Thank you, all.

23           Oh, Erika, I was actually just going to turn  
24 to you and just ask you a little bit from the business  
25 perspective, your thoughts on what your co-panelists

1 have said. So, please, take it away.

2 MS. BROWN LEE: Sure, sure. I think, you  
3 know, we're all in agreement in the sense that, you  
4 know, there's support broadly for interoperability as  
5 an overarching principle and standards in particular.

6 You know, just sort of adding onto some of  
7 the comments, I would just suggest that industry  
8 participate -- that industry participation in  
9 development of the standards is also important because  
10 if you -- without it, ideally you want to be able to  
11 have and build scale and adoption. And, you know, if  
12 standards are set in a particular rigid fashion where  
13 there's asymmetric adoption, that also can have, you  
14 know, a negative impact on consumers, in particular,  
15 because they won't be able to -- you know, there will  
16 just be some players that don't participate.

17 And so, you know, I think that point of  
18 having a level playing field is important, but I do  
19 think that, you know, there does need to be sort of  
20 industry participation and recognition of not only the  
21 various differences within an industry, but also  
22 between industries.

23 MR. BROWN: Thanks, Erika. And thank you  
24 all for jumping in on this.

25 We have just a few minutes left, and I'm

1 going to move to give my panelists an opportunity to  
2 just throw in some closing thoughts if they want to  
3 sneak in any responses to what we've just said. I'll  
4 give them that chance there.

5 And, Erika, I'll switch you to the end of  
6 the order because you just spoke, but maybe, Sara,  
7 could you go first, and just give us a minute or so of  
8 any closing thoughts you'd like?

9 MS. COLLINS: Yeah, I think data portability  
10 really shows how interconnected some of these very  
11 hard questions in this sort of digital economy are,  
12 and that if we're going to -- that we can't think  
13 about data portability as if acting by itself. It  
14 affects privacy. It affects security. It obviously  
15 has implications for competition.

16 So while obviously creating rules around  
17 data portability you need to have a focus, I think  
18 there also needs to be a sort of perspective of  
19 looking around at how it will affect the larger  
20 digital ecosystem going forward and what exactly we  
21 want out of that ecosystem.

22 Obviously at Public Knowledge, we want it to  
23 be user centric and user friendly and ultimately not  
24 harmful.

25 MR. BROWN: Bennett, would you like to go

1 next?

2 MR. CYPHERS: Sure. Yeah, I'll try and make  
3 a few points very quickly. First, mandates are great,  
4 where we can get regulators and users and industry to  
5 agree on what the right data is to be sharing, and  
6 what the right APIs look like. But competitive  
7 compatibility is key to allowing small upstarts and  
8 tinkerers to innovate on data portability and figure  
9 out what kinds of uses for their data there might  
10 exist if companies are not moving forward with APIs  
11 and regulators can't keep up with new technology.

12 Finally, we need a privacy law. We need  
13 good privacy law in the United States. We don't need  
14 it as a prerequisite for data portability. Data  
15 portability doesn't create new risks to privacy, but  
16 it should bring attention to the risks that are  
17 already out there and remind everyone that data is not  
18 always going to be used in your interest if there are  
19 not liabilities and incentives for companies to use  
20 data in ways that you would like.

21 MR. BROWN: Michael?

22 MR. MURRAY: So I'd like to end with a  
23 request. Given this large patchwork of utility  
24 regulation, including state, public utility  
25 commissions, city councils and cooperative boards, all

1 of them are struggling with what the heck is informed  
2 consent. And so if I had a request, it would be to  
3 the FTC, and I would -- I would, you know, humbly,  
4 respectfully, on one knee, ask that the federal  
5 government and the FTC please provide some guidance on  
6 online consents and what they should look like and how  
7 they should function.

8           The Consumer Data Right in Australia,  
9 they've done some fantastic work through CSIRO, that's  
10 their NIST equivalent down there, and it's just  
11 amazing to see, you know, actual screenshots of, this  
12 is what it should look like. And that's exactly the  
13 level of detail that we'd love to see, because there  
14 are tons and tons, you know, thousands of regulators  
15 who oversee electric utilities who are all scratching  
16 their heads saying, we don't know what informed  
17 consent is.

18           MR. BROWN: Julian. You're on mute, Julian.

19           MR. RANGER: I'm going to add to that  
20 previous question by saying, of course, look  
21 at the digi.me consent certificate because it  
22 hopefully is best practice. But, plus-one to what  
23 you've all said. I think the key point is that with  
24 data portability, access to data is no longer going to  
25 be the competitive barrier it is. And that's the

1 point.

2 Any company can get better data than the big  
3 four or five have today if the individual consents.  
4 And it's the value that you offer individuals that  
5 causes them to agree to share their data that becomes  
6 the determining competitive practice. So if I can  
7 misquote your own declaration, all companies then  
8 become equal when it comes to data. So data  
9 portability is an absolute key. It doesn't solve the  
10 other competitive issues, but it solves the data  
11 competitive issues.

12 MR. BROWN: Thanks.

13 And, Erika, I'll give you the last word.

14 MS. BROWN LEE: Well, I know we're over, so  
15 I don't want to take too much of it. You know, I  
16 think everyone has really expressed a lot of what I  
17 would say. Certainly as individuals become  
18 increasingly aware of the uses of their data, they're  
19 demanding more control, and so portability is an  
20 accord of that. And to the extent that we can -- as  
21 we see these proposals coming up across, you know, the  
22 various jurisdictions, you know, and hopefully drive,  
23 you know, concerns for interoperability as a  
24 consistent approach, I think we would all benefit. So  
25 I'll just sort of end my comments there.

1                   MR. BROWN: Thank you all for a really great  
2 discussion this afternoon. Thank you for all your  
3 time and contributions in this process. And thank  
4 you, viewers, for joining us.

5                   I'm now going to hand it over to the  
6 Director of the Bureau of Competition, Ian Conner, for  
7 some closing remarks. Thanks.

8                   (Brief pause.)

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1 CLOSING REMARKS

2 MR. CONNER: So thank you all for joining us  
3 today and for participating in today's timely,  
4 excellent discussion. This was a great event with a  
5 great lineup of speakers. And while I wasn't able to  
6 attend every session, I am pleased with how the day  
7 did unfold.

8 Data portability is one of those issues that  
9 cuts across the FTC's work. It raises questions about  
10 how best to protect consumers and promote competition.

11 As a law enforcement agency, the FTC carries  
12 out its dual missions primarily by using its law  
13 enforcement tools. We find and stop conduct that  
14 directly harms consumers or denies them the benefits  
15 of competition. But just as important as finding and  
16 stopping those law violations is how we fix them. Our  
17 remedies must address the sources of harm. This is  
18 always a challenging exercise, but it may -- it can be  
19 particularly challenging in the digital sectors,  
20 especially data-driven ones.

21 More and more, businesses are relying on a  
22 steady stream of data to serve customers, develop new  
23 products, and improve operational efficiencies.  
24 Acquisitions can involve the acquisition of data  
25 itself or raise concerns because of the ability to

1 harvest more data or foreclose data access to rivals.  
2 Whether data is available and can be moved is a key  
3 issue in understanding the competitive implications of  
4 both acquisitions and conduct by market participants.

5 Today's discussion highlighted some of the  
6 challenges of understanding how data is used and  
7 moved, and, more importantly, how those practices  
8 might affect consumers and competition. Because data  
9 will continue to be important to consumers and  
10 competition, understanding what is at stake is of  
11 critical importance to the Federal Trade Commission,  
12 and we are grateful to our panelists today that you  
13 have given us so much to consider. Your hard work was  
14 evident and you have provided us must intellectual  
15 food for thought, so I thank you.

16 Data's a competitive role and its  
17 portability is not just a question assessed in looking  
18 at the effects of a proposed transaction or practice.  
19 It is key to understanding what it is going to take to  
20 remedy potential or actual competitive harms from  
21 those transactions and that conduct. Without  
22 understanding the role of data portability, we can't  
23 fully assess the remedy necessary to address those  
24 competitive harms. And making more and more users'  
25 data more accessible and held by more entities can

1    itself actually raise privacy and consumer protection  
2    concerns that we must consider in crafting our  
3    competition remedies.

4           Our panelists have given us a lot to  
5    consider on these issues, both from a competition and  
6    from a consumer protection standpoint. In addition to  
7    the informative and thoughtful presentations from our  
8    panelists today, I would also like to thank the groups  
9    of individuals who have filed comments in response to  
10   our initial workshop notice.

11           I would like to close by acknowledging our  
12   organizers for their enthusiasm, dedication and  
13   patience in assembling today's program, especially  
14   under such challenged circumstances as have been  
15   brought on by the pandemic. It takes many people to  
16   organize workshops such as this one, and our team  
17   included staff was from all three bureaus and our  
18   Office of International Affairs.

19           Thus, although it is late in the day, please  
20   indulge in some well-deserved expressions of  
21   appreciation from myself in the Office of Policy  
22   Planning, the Bureau of Competition, the Bureau of  
23   Economics and the Bureau of Consumer Protection.

24           For our planning team, Andrea Zach, Jarad  
25   Brown, Chris Grengs, Ryan Quillian, Guilherme Roschke,

1 Kelly Signs, Leah Singleton, Ben Smith, and Kate  
2 White.

3 For our workshop and logo work, Daniele  
4 Apanaviciute; from our Office of Public Affairs,  
5 Juliana Henderson and Nicole Drayton; for today's  
6 webcasting, Bruce Jennings and our Web Team; and last  
7 but definitely not least, our events planner, Kristal  
8 Peters.

9 It is our staff members who make workshops  
10 like this one possible and productive, and it is our  
11 staff who work tirelessly every day to investigate,  
12 and when necessary, go to court to protect the  
13 American consumers. Thank you very much for your  
14 attendance. Have a good day.

15 (Hearing concluded at 2:57 p.m.)

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