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6 UNDERSTANDING THE DIGITAL ADVERTISING

7 ECOSYSTEM

8 THURSDAY, JUNE 14, 2018

9 House of Representatives

10 Subcommittee on Digital Commerce and Consumer

11 Protection

12 Committee on Energy and Commerce

13 Washington, D.C.

14

15

16

17 The subcommittee met, pursuant to call, at 10:15 a.m., in

18 Room 2322 Rayburn House Office Building, Hon. Robert Latta

19 [chairman of the subcommittee] presiding.

20 Members present: Representatives Latta, Kinzinger, Burgess,

21 Upton, Lance, Guthrie, Bilirakis, Bucshon, Walters, Costello,

22 Schakowsky, Cardenas, Dingell, Matsui, Welch, Kennedy, Green,

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23 and Pallone (ex officio).

24 Staff present: Melissa Froelich, Chief Counsel, Digital  
25 Commerce and Consumer Protection; Adam Fromm, Director of  
26 Outreach and Coalitions; Ali Fulling, Legislative Clerk,  
27 Oversight & Investigations, Digital Commerce and Consumer  
28 Protection; Elena Hernandez, Press Secretary; Paul Jackson,  
29 Professional Staff, Digital Commerce and Consumer Protection;  
30 Bijan Koochmaraie, Counsel, Digital Commerce and Consumer  
31 Protection; Mark Ratner, Policy Coordinator; Austin Stonebraker,  
32 Press Assistant; Greg Zerzan, Counsel, Digital Commerce and  
33 Consumer Protection; Michelle Ash, Minority Chief Counsel,  
34 Digital Commerce and Consumer Protection; Jeff Carroll, Minority  
35 Staff Director; Lisa Goldman, Minority Counsel; Carolyn Hann,  
36 Minority FTC Detailee; Caroline Paris-Behr, Minority Policy  
37 Analyst; and C.J. Young, Minority Press Secretary.

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38 Mr. Latta. Well, good morning, and welcome to the  
39 Subcommittee on Digital Commerce and Consumer Protection. We  
40 really appreciate you all being here, and we look forward today  
41 to your testimony.

42 And at this time, I'll recognize myself for five minutes  
43 for an opening statement. And again, good morning and I wanted  
44 to again thank our witnesses for being with us today.

45 An advertisement used to mean a quarter-page section in your  
46 local newspaper, a billboard along the highway, or as our chairman  
47 of the full committee would know in his radio days a radio spot  
48 during the rush-hour commute.

49 While those types of advertisements still exist, targeted  
50 digital advertising has begun to dominate the advertising and  
51 marketing industry.

52 The digital advertising ecosystem is complex and often  
53 misunderstood. Today, we hope to clear up some of this confusion  
54 for consumers and discuss both the benefits and emerging, often  
55 high-profile, challenges of online advertising.

56 Our expert panel of witnesses will explain how this  
57 technology works and its place in our economy and our lives.

58 According to the Interactive Advertising Bureau, the  
59 ad-supported internet ecosystem generated over \$1 trillion for

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60 the U.S. economy in 2016 and was responsible for 10.4 million  
61 jobs with 44 percent of those jobs employed by small and medium  
62 businesses.

63           The massive growth of online advertising's contribution to  
64 GDP can be tied to improved data collection and subsequent ad  
65 targeting. Digital ads are dependent on consumer-related  
66 information and data, and many of the largest companies in the  
67 world -- Facebook, Google, and the like -- are supported by revenue  
68 generated from the collection of this data for the use of targeted  
69 ads.

70           While these companies clearly have dominance in this space,  
71 many of the benefits of this data collection trickle down to small  
72 businesses and create a more tailored online experience for  
73 consumers.

74           For example, a local greenhouse can use their limited time  
75 and resources to advertise in the most effective way for less  
76 cost by using targeted ads. Instead of publishing an imprecise  
77 catch-all ad in the newspaper, they can purchase ad space on  
78 websites dedicated to gardening or set up a geolocation range  
79 for IP addresses in driving distance in their greenhouse.

80           This ensures that their ad is reaching their most likely  
81 group of customers -- avid gardeners who live within 10 miles

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82 of the greenhouse. In the same transaction, the gardeners  
83 benefit from knowing what promotions and deals are available in  
84 their home area.

85 To some consumers, these practices can feel like an invasion  
86 of privacy, or leave them wondering how much personal information  
87 about them is being sold. As this subcommittee continues to  
88 grapple with the many privacy issues and data breaches of the  
89 past few years, we are no stranger to the risks of collecting  
90 such detailed consumer profiles and amassing it in centralized  
91 data repositories susceptible to bad actors.

92 This hearing is yet another opportunity to discuss these  
93 risks and understand what those are in the private sector -- and  
94 what those are in the private sector are doing to address them.

95 Additionally, ads are only effective if they're reaching  
96 actual people. Digital ad fraud and the scourge of traffic bots,  
97 algorithms designed to look like actual humans, complicate this  
98 system in new ways, and undermine the trust in the current  
99 advertising model.

100 Businesses who think they are paying for ad space because  
101 of high audience interest might not get the response they want  
102 because of bots. One study found that 22 percent of desktop video  
103 ads were viewed only by bots.

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104           The online advertising ecosystem has many players that  
105           contribute to its effectiveness. Understanding how each of these  
106           players interact with each other and with consumers is an  
107           important step in discussing larger issues like privacy and data  
108           security.

109           As always, it is one of the primary goals of the Energy and  
110           Commerce Committee to ensure that consumers are informed and can  
111           make educated decisions about their online habits.

112           The advertising-based model supports the platforms that we  
113           use to communicate, connect, shop, and work. Today, we hope to  
114           hear of the many efforts undertaken by industry to innovate and  
115           grow in this space, while at the same time responding to consumer  
116           demands for privacy and security of their data.

117           Again, I want to thank our witnesses for being with us today  
118           and at this time I will yield back my time and recognize the gentle  
119           lady from Illinois, the ranking member of the subcommittee, for  
120           five minutes.

121           Ms. Schakowsky. Thank you, Mr. Chairman.

122           Ads are ubiquitous, often irritating, as you browse the  
123           internet. Most of the time, we get a little thought to why those  
124           ads are there.

125           But, as we touched on during the Facebook hearing earlier

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126 this year, the ads that consumers see are often highly targeted.

127 I've certainly noticed them in my own experience that I am  
128 being tracked online. I start to shop on a website and then next  
129 thing you know an ad for the very same product I was looking for  
130 turns up on a completely different website.

131 Companies may claim that consumers like targeted ads, and  
132 some may. But consumers tell a different story often when they  
133 are polled. In fact, most Americans report taking at least some  
134 steps to block tracking.

135 Americans are realizing how little control they have over  
136 their own information. You may not even be on Facebook, but  
137 Facebook collects information about you.

138 You can block cookies but you are still tracked. You are  
139 tracked regardless of whether you're on a computer, smart phone,  
140 or tablet, and the internet of things expands which devices can  
141 collect your data even further.

142 The use of targeted digital ads can have serious  
143 consequences. It's not just online shopping. We have learned  
144 more and more in the past year about how Russia used targeted  
145 ads to spread disinformation and meddle in our elections.

146 The grand jury in Special Counsel Robert Mueller's  
147 investigation has indicted 13 Russian nationals and three

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148 companies for waging information warfare on the United States.

149 Targeted ads can also be tools for discrimination. A  
150 ProPublica investigation last year found that Amazon, Verizon,  
151 UPS, and Facebook all posted jobs -- job ads that were targeted  
152 specifically to specific age groups, excluding older Americans.

153 We have also seen ads for junk financial products that are  
154 directed to communities of color. Facebook has now removed the  
155 option to exclude certain ethnic groups for advertising. But  
156 the potential for discrimination remains in the online ad market.

157 Congress has been woefully slow in responding to the risks  
158 that online advertising practices pose to privacy, fairness, and  
159 our very democracy.

160 The Federal Trade Commission does not have the resources  
161 it needs to be an effective consumer watch dog. It does not have  
162 close to enough staff to monitor anti-consumer practices online  
163 and it has weak enforcement tools.

164 The FTC has limited rulemaking authority. It cannot impose  
165 civil penalties right away. When a company fails to protect  
166 consumer privacy, instead it has to negotiate a consent order  
167 and only if it later finds a violation of that consent order does  
168 a company actually pay for misusing consumer data.

169 Perversely, the Republican majority tried the last Congress

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170 to further restrict the FTC's authority. Fortunately, that  
171 legislation was not passed.

172 Consumers deserve a real protection. We need rules of the  
173 road for what information can be collected and stored on -- and  
174 stored about consumers.

175 Consumers need real options when it comes to how their  
176 information is used. The Facebook scandal and the many data  
177 breaches in recent years have made consumers increasingly aware  
178 of how much data is sitting out there -- how much of their own  
179 data.

180 After the Equifax data breach, we had a witness describe  
181 the steps a consumer could take to protect the information, and  
182 she basically made protecting your privacy sound like a full time  
183 job.

184 It shouldn't be that way. I am glad that we are having this  
185 -- we are continuing to discuss the field of digital ads. My  
186 question is what comes next.

187 Is the subcommittee finally going to take up legislation  
188 to strengthen consumer privacy protection? This is a complicated  
189 issue.

190 But I believe that we are up to the challenge. Let's bring  
191 our ideas to the table and hash out the solutions that are --

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192 that our constituents deserve.

193 People are fed up with big corporations tracking their every  
194 move online and controlling what they see. They are demanding  
195 action and it is time for Congress, for this committee, to deliver.

196 I yield back.

197 Mr. Latta. Thank you very much. The gentlelady yields back  
198 and I believe the chairman of the full committee has not arrived  
199 yet. Is there anyone on the Republican side wising to claim the  
200 chairman's time?

201 If not, at this time I will recognize the gentleman from  
202 New Jersey, the ranking member of the full committee, for five  
203 minutes.

204 Mr. Pallone. Thank you, Mr. Chairman.

205 Today's hearing will explore online advertising and its role  
206 in society. In the early days of the internet, online advertising  
207 was like other forms of advertising.

208 Advertisers would place ads aimed at broad audiences. But  
209 that has all changed. Advertising is now directed to smaller  
210 targeted categories of audiences, those most likely to purchase  
211 their products and services.

212 Targeted advertising can provide more relevant advertising  
213 to consumers. It also provides revenue to advertisers.

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214           For example it allows a small business selling boutique men's  
215 razors to reach men, say, in their 40s and 50s who may be able  
216 to afford a specialty product.

217           However, it also allows a scammer to reach women over a 65  
218 in a particular zip code who have been duped in the past to give  
219 their money to fake veterans charities.

220           Moreover, contrary to industry claims, it's not always  
221 anonymous. Right now, anyone willing to pay can target  
222 advertising to a list of 20 names and send a specialized adjust  
223 to them.

224           Without explaining or justifying the list, an advertiser  
225 could send an advertisement to 20 specific people who have a mental  
226 health condition or are taking a particular medication.

227           And target advertising is possible because of the vast  
228 amounts of information collected about individual consumers by  
229 companies across the advertising ecosystem.

230           Beyond the websites, you go to the advertisers today to see  
231 there are numerous middlemen, ad networks, ad agencies, data  
232 brokers, and the like.

233           These companies lurk in the background, often unknown to  
234 consumers, and not just collecting and storing data that would  
235 choose to share. They track what websites we visit, what

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236 purchases we make, and even the movement of your mouse on the  
237 computer screen.

238 And information collected about our online activity is  
239 increasingly being merged with our offline identity to create  
240 extremely detailed profiled.

241 Moreover, they can go beyond facts to include inferences  
242 about our interests and demographic information. Targeted  
243 advertising by its very nature separates people into categories  
244 and shapes our choices.

245 We have shown limited options that are chosen for us by  
246 automated processes based on our profiles. So what I see on the  
247 internet may end up being very different from what you see, and  
248 neither of us getting all the information that may help us make  
249 our purchasing decisions.

250 Even if we seek out additional information we may get created  
251 content, further limiting our choices.

252 In addition to the risks of scams, targeted ads can result  
253 in blatant discrimination. It's been well documented than  
254 targeted advertising systems have allowed housing ads to exclude  
255 people of color and job ads to exclude older workers.

256 At this committee's hearing last year on the effect of  
257 algorithms on consumers we discussed how bias can be built into

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258 algorithms, resulting in bias results, and that problem does not  
259 just apply to content and search results. It applies to  
260 advertisement as well.

261 It is good that Google and Bing have now blocked ads for  
262 predatory payday loans, but that's not enough. The American  
263 people rightfully feel like they've lost control.

264 One survey showed that 84 percent of people want more control  
265 over what companies can learn about them online, yet 65 percent  
266 of people are resigned to the fact that they have little control.

267 So we hear a lot about self-regulatory transparency, notice,  
268 and choice but we all receive many updated privacy policies  
269 spurred by the EU's new data privacy regulations. None of us  
270 have time to read all of them, let alone actually understand and  
271 remember what each company is doing with our data.

272 And what about the companies collecting our data that we  
273 don't even know exist?

274 The Equifax breach brought that issue up front and center,  
275 and people weren't just upset that their data was stolen. They  
276 were upset that a company that may have never -- they've never  
277 interacted with had all that data.

278 So I think we can do better and I think we must do better,  
279 Mr. Chairman. It's time we all admit that the current system

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280 just isn't working for consumers, and Congress needs to do a better  
281 job and pass comprehensive privacy legislation so people can take  
282 back control that they've lost.

283 And I yield back.

284 Mr. Latta. Thank you very much. The gentleman yields back  
285 the balance of his time.

286 And that now concludes member opening statements. The chair  
287 reminds members that pursuant to committee rules, all members'  
288 opening statements will be made part of the record.

289 Again, I want to thank our witnesses for being with us today  
290 and taking time to testify.

291 Today's witnesses will have the opportunity to give a  
292 five-minute opening statement followed by a round of questions  
293 from the members.

294 Our witness panel for today's hearing will include Ms. Rachel  
295 Glasser, who is the global chief privacy officer at Wunderman;  
296 Mr. Mike Zaneis, president and CEO of Trustworthy Accountability  
297 Group; Mr. Justin Brookman, the director of privacy and technology  
298 policy at Consumers Union; and Dr. Howard Beales, professor of  
299 strategic management and public policy at George Washington  
300 University.

301 Again, we want to thank you all for being with us and taking

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302 the time to testify and, again, Ms. Glasser, you're recognized  
303 for five minutes for your opening statement. So just pull that  
304 mic up close and press the button to get her on and we appreciate  
305 hearing your testimony today.

306 Thanks very much.

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307 STATEMENTS OF RACHEL GLASSER, GLOBAL CHIEF PRIVACY OFFICER,  
308 WUNDERMAN; MIKE ZANEIS, PRESIDENT AND CEO, TRUSTWORTHY  
309 ACCOUNTABILITY GROUP; JUSTIN BROOKMAN, DIRECTOR, PRIVACY AND  
310 TECHNOLOGY POLICY, CONSUMERS UNION; HOWARD BEALES, PROFESSOR OF  
311 STRATEGIC MANAGEMENT AND PUBLIC POLICY, GEORGE WASHINGTON  
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313

314 STATEMENT OF RACHEL GLASSER

315

316 Ms. Glasser. Thank you very much, Chairman Latta, Ranking  
317 Member Schakowsky, and members of the subcommittee.

318

319 Good morning, and thank you for the opportunity to speak  
320 at this important hearing. I am honored to have traveled from  
321 New York to appear before you today to discuss how responsible  
322 digital advertising supports innovative, diverse, and free  
323 services that are the foundation of our online economy.

324

325 My name is Rachel Glasser. I am the global chief privacy  
326 officer for Wunderman, who's the parent company of KBMG.

327

328 I am responsible for data privacy strategy and  
329 implementation and ongoing process improvements for all of  
330 Wunderman including KBMG.

331

332 KBMG is headquartered in Louisville, Colorado, with offices

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329 in New York, Texas, and Brazil. We help brands, companies, and  
330 nonprofit, large and small, use data as a strategic asset and  
331 provide data-driven marketing engagement for improved marketing  
332 performance and a resident customer experience.

333 The internet has drastically improved the way people work,  
334 consume content, learn, travel, access health care, spend leisure  
335 time, and communicate with one another.

336 Many of these life changing benefits are available to  
337 consumers for free because it's supported by digital advertising.  
338 In short, digital advertising is the lifeblood of the internet  
339 economy and connects business with consumers who are most likely  
340 to value their products and services.

341 Data is at the center of this American success story and  
342 is core to the marketing services that KBMG provides the clients.

343 Accordingly, the foundation of our business model is trust.  
344 We work every day to earn and maintain the trust of both consumers  
345 and companies with whom we work.

346 My job is to help ensure that privacy and respect for the  
347 consumer are integrated into every initiative.

348 This message comes from the top. Respect consumer privacy,  
349 be transparent about our data collection and use practices, offer  
350 consumer choice, and honor those choices.

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351           This trust allows us to innovate faster, provide more value  
352 to clients, and create better experiences for consumers.

353           Digital advertising is a broad term used to describe the  
354 paid advertising that publishers put on their websites or apps.

355           It enables these publishers to provide consumers with content  
356 and services for free.

357           Today, I am focusing on digital advertising tailored to  
358 consumers' likely interests. This is generally known as  
359 interest-based advertising, or IBA.

360           IBA is why consumers see ads that are relevant to their  
361 interests. With this type of advertising, companies and  
362 advertisers collect information across some of the sites and apps  
363 that they visit.

364           This information is then used to predict what ads might be  
365 the most interesting to consumers. IBA doesn't depend on  
366 information that may be personally identifiable such as a  
367 consumer's name or a phone number or postal address.

368           In fact, most ad tech companies do not want to know the  
369 identity of a consumer for the purposes of IBA. They only want  
370 to link an interest category to demographic data with the  
371 consumer's browser so that they can serve up relevant ads.

372           Of course, different companies may use different methods

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373 of IBA. To kind of level set, it's important to go over the fact  
374 that there are several different players in the advertising  
375 ecosystem.

376 We have the consumer, the publisher, the advertiser, and  
377 the third party advertising company, and that's where my company  
378 sits.

379 We are third party advertising company. As I mentioned,  
380 KBMG, as a digital marketing company, places a high priority on  
381 consumer privacy and reasonable use of data.

382 We expect that participants in the online economy will honor  
383 high standards regarding the collection and use of online data.

384 This supplies the publishers, platforms, social media, data  
385 management companies, ad tech providers, commerce sites, and  
386 more.

387 At a minimum, when data is collected and used to support  
388 various activities such as online advertising or to create  
389 personalized experiences, each player in the data life cycle has  
390 a responsibility to be transparent, offer consumers appropriate  
391 choices, and honor those choices with respect to data collection  
392 and use.

393 We also expect every company to take reasonable measures  
394 to secure that data prevent -- to secure that data and prevent

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20

395 potential misuse.

396           This leads me to my final point this morning. Businesses  
397 have a vested interest in acting responsibly and building user  
398 trust on line. Recognizing the value of user trust and the  
399 potential applications of data online, the digital ecosystem has  
400 taken initiative and thorough measures to put in place a set of  
401 codes and principles to reinforce these practices.

402           The NAI and the DAA are two self-regulatory groups committed  
403 to maintaining and enforcing responsible privacy practices and  
404 high standards for data collection.

405           These standards include providing consumers with enhanced  
406 transparency and control and companies like mine voluntarily  
407 commit themselves to these organizations.

408           These companies demonstrate their desire to be good actors  
409 and they are obliged to abide by the respective codes and  
410 principles. This is a clear indication of the intent of companies  
411 to act responsibly, build user trust, and help drive innovation  
412 and grow the internet economy.

413           There is no question that data privacy is on everyone's minds  
414 these days. But for our industry it's been on our mind for nearly  
415 two decades.

416           While not to be downplayed by any means, we do not want the

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417 recent events of recent to overshadow the extraordinary benefits  
418 of the online advertising ecosystem and we are very pleased that  
419 the Energy and Commerce Committee is taking the time to learn  
420 more about this vibrant and exciting sector.

421 Thank you.

422 [The prepared statement of Ms. Glasser follows:]

423

424 \*\*\*\*\*INSERT 1\*\*\*\*\*

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425

Mr. Latta. Well, thank you for your testimony this morning,

426

and Mr. Zaneis, you are recognized for five minutes.

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23

427 STATEMENT OF MIKE ZANEIS

428

429 Mr. Zaneis. Thank you, Chairman Latta, Ranking Member  
430 Schakowsky, distinguished members of the subcommittee, it's  
431 wonderful to be before you again today.

432 My name is Mike Zaneis. I am the president and CEO of  
433 the Trustworthy Accountability Group, or TAG, as it's known in  
434 the industry.

435 TAG is a industry not-for-profit organization whose mission  
436 is to fight criminal activity throughout the digital advertising  
437 supply chain.

438 It may come as a surprise to all of you that that's a necessary  
439 mission. But let me assure you it is. Our industry is fighting  
440 the same criminal networks that operate globally often to commit  
441 human trafficking, drug trafficking, and widespread digital  
442 identity theft.

443 Why is that? It's because digital advertising is the engine  
444 that drives America Mr. Justin Brookman  
445 Director, Privacy and Technology Policy, Consumers Union's  
446 digital data-driven economy.

447 This is an industry that contributed \$1.12 trillion to the  
448 domestic economy in 2016 and in so doing created 10.4 million

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449 jobs, and these are incredibly high quality jobs that pay very  
450 well, spread across the country in literally every congressional  
451 district.

452           With that prosperity, though, comes added attention, as I  
453 mentioned. The complexity then Ms. Glasser talked about with  
454 the digital supply chain -- the fact that you may have dozens  
455 of companies touching an ad from the marketer, the agency, the  
456 tech firms, all the way down to the publisher before it ever  
457 appears, hopefully, in front of a real consumer, creates sometimes  
458 an opaque supply chain and that allows criminals to hide in the  
459 dark murky corners and to infiltrate it.

460           It's estimated then that this criminal activity, as I  
461 mentioned, causes more than \$8.2 billion in harm. But that's  
462 just domestically, and the impact is greater globally.

463           The industry found a common chain of criminal activity a  
464 few years ago. The first link in this chain is the theft of  
465 digital content. Criminals don't take the time or the effort  
466 to create content like our own homegrown creative community does.

467           Instead, they steal it. Maybe it's a blog posting, a local  
468 news article, all the way up to the latest music and movies, and  
469 they put this content on websites that they own, and that's because  
470 domains are inexpensive and easily accessible.

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471           Once they have a website with quality content on it, they  
472 have to generate an audience to visit that's website. That's  
473 very difficult to do.

474           Here, again, criminals, of course, cheat, as they always  
475 do. They prefer to distribute malware onto consumers' computers  
476 and devices.

477           Once infected, that device can actually open up individual  
478 browsers or even behind-the-scenes mobile apps, unbeknownst to  
479 the consumer, and it visits websites.

480           We call this fraudulent nonhuman traffic. That's because  
481 there's not a person on the other end of that screen. It's  
482 estimated then to digital app at a cost to the industry \$4 billion  
483 a year here in the U.S.

484           Finally, now that a criminal network has a website with great  
485 content, they have what appears to be large engaged audience.  
486 They're a perfect candidate to attract digital advertising  
487 revenue.

488           Like any legitimate business, they can embed ads into that  
489 site and begin to receive revenue into a matter of weeks a great  
490 democratization tool for small businesses in this country.

491           TAG was created by the industry to solve these challenges.  
492 And so we are often referred to as sort of the good housekeeping

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493 seal of approval.

494 To date, the industry has rallied behind these efforts,  
495 although we are only three years old. More than 680 companies  
496 have applied to join TAG.

497 That's spread across 27 countries and six continents. Most  
498 importantly, more than 100 companies have already achieved a TAG  
499 certification.

500 What that means is that these companies are living up to  
501 the highest standards using the best technology to fight fraud,  
502 to fight ad-supported piracy, to fight malware, and also we have  
503 an overarching goal of increasing transparency throughout the  
504 supply chain.

505 We've been very gratified to learn over the past year that  
506 these programs are working. Two pieces of independent research  
507 showed that in our anti-fraud program that if marketers worked  
508 with TAG-certified entities through what we call a TAG-certified  
509 channel, they could remove at least 83 percent of those fraudulent  
510 non-human impressions that they receive. It can save them  
511 billions of dollars a year.

512 With our anti-piracy efforts, a study by EY -- Ernst and  
513 Young -- found that industry efforts to keep ads off of sites  
514 and steal content and have illicit material on them had kept more

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515 than half of that revenue from flowing to these pirate sites.

516 I think most encouraging about that research is that the  
517 little revenue that does flow to pirate sites comes from  
518 nonpremium marketers, meaning the smaller, less reputable folks.

519 So I appreciate the opportunity to speak to you today and  
520 I look forward to answering your questions.

521 [The prepared statement of Mr. Zaneis follows:]

522

523 \*\*\*\*\*INSERT 2\*\*\*\*\*

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524

Mr. Latta. Well, thank you very much for your testimony.

525

Mr. Brookman, you are recognized for five minutes. Thank

526

you.

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527 STATEMENT OF JUSTIN BROOKMAN

528

529 Mr. Brookman. Chairman Latta, Ranking Member Schakowsky,  
530 members of the committee, thank you very much for holding this  
531 hearing into the digital ad ecosystem and for the opportunity  
532 to testify here today.

533 I am here today on behalf of Consumers Union. We are the  
534 advocacy division of Consumer Reports. We are the world's  
535 largest independent testing organization, rating thousands of  
536 products and services for consumers every year.

537 I've been working on ad tech for a number of years now, dating  
538 back to suing adware companies in the 2000s for deceptive install  
539 practices.

540 I recognize the value of ad targeting. I also recognize  
541 that a lot of consumers really don't like it and they don't feel  
542 they've agreed to be tracked everywhere they go with everything  
543 they do in exchange for free content.

544 It used to be that online ad tracking was fairly  
545 straightforward. A lot of people didn't like it but it was  
546 simpler to understand. Advertising companies would put  
547 anonymous cookies in your browser and they serve you ads based  
548 on the sites you visited in your browser but not based on who

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549 you are, and you can control it by deleting or blocking cookies.

550 Today, however, the techniques companies use are a lot more  
551 sophisticated. Companies like Google and Facebook track you by  
552 real name, not just on their own services but on the majority  
553 of other sites and apps that are out there across all of your  
554 different devices.

555 Deleting cookies or using private browsing mode may not do  
556 much good anymore if companies are using other technologies like  
557 digital fingerprinting to monitor you instead.

558 And we are not just tracked on our computers anymore. It's  
559 other devices as well. Consumer Reports looked at a bunch of  
560 smart TVs earlier this year and all of them tried to use automated  
561 content recognition to take snapshots of what was on our screens  
562 to try to figure out what shows we are watching.

563 Ad companies also want to tie what we do online to the  
564 physical world. So a couple days ago I was in New York City.  
565 I bought a cup of coffee at a place I would never been before.

566

567 A day or so later, I got an email from them welcoming me  
568 to their rewards program. I had never given them my email  
569 address.

570 Now, I can see why companies might want to do some of these

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571 things but I also see why consumers might want to make it stop.  
572 Privacy is, at some level, a right to seclusion -- a right to  
573 be left alone -- a right to autonomy over our own devices and  
574 what they share about us, and it's getting harder and harder to  
575 manage that personal information.

576 Now, in response to this constant creeping encroachment into  
577 our personal spaces, there are some companies who are pushing  
578 back. Apple, for example, has done a lot to limit tracking and  
579 apps on iPhones. Just this week, they announced further changes  
580 to give users more control over cross-site tracking.

581 Mozilla, maker of the Firefox browser, has also taken a lot  
582 of positive steps to limit tracking in their browsers, and we've  
583 also seen a tremendous rise in the use of ad blockers like  
584 Disconnect and Privacy Badger and uBlock and Brave by consumers  
585 who are frustrated by aggressive ads or the underlying tracking.

586 Ad blocker penetration is expected to rise to 30 percent  
587 of the market this year, showing that users really are not  
588 satisfied with online ads' ecosystem.

589 In my organization, Consumer Reports -- long-time testing  
590 lab -- we are starting to test products based on privacy and  
591 security in response to consumer demand.

592 So I mentioned how we analyse privacy and security issues

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593 with TVs earlier. We are looking to build those sorts of  
594 evaluations into our everyday product testing.

595 And so far, though, all this pressure hasn't really been  
596 enough to get industry to reform itself. There are  
597 self-regulatory programs but they've always suffered from the  
598 same problems -- they're too weak, they don't apply to all the  
599 companies in the space, they don't really address the data  
600 collection issue, the interfaces can be complicated and  
601 confusing, and a lot of times the tools are just broken.

602 Now, the online ad industry had agreed to address these  
603 failings back in 2012 when they promised to honor do not track  
604 instructions in browsers. These are the easy-to-use settings  
605 in your web browser. You can signal to the world that you don't  
606 want to be targeted and tracked.

607 Well, then a couple of years later the industry backtracked  
608 on that promise. Now it's been over seven years since consumers  
609 have been activating do-not-track in their browsers. The ad  
610 industry still by and large just ignores those signals.

611 And so while we at Consumer Reports are working to improve  
612 the market for privacy and security, ultimately, I do think we  
613 probably need some basic legislative protections.

614 So we should have a discussion about what would work and

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615 what wouldn't, because privacy laws are already happening around  
616 the world.

617 Europe recently expanded their legal protections with the  
618 GDPR that just went into effect and a lot of other nations around  
619 the world are copying European models and those laws do affect  
620 U.S. companies.

621 States continue to pass privacy and security laws. States  
622 led the way on data breach notification laws and credit freeze  
623 laws and a lot of other basic consumer rights. We are starting  
624 to see them advance more comprehensive privacy and security  
625 legislation as well.

626 So I would urge this committee not to leave the policy  
627 decisions entirely to Europe or to the states but to really dig  
628 in and think about what sort of practical protections can empower  
629 consumers to make their own decisions about their personal  
630 information.

631 Thank you, again, for inviting me here today and I look  
632 forward to your questions.

633 [The prepared statement of Mr. Brookman follows:]

634

635 \*\*\*\*\*INSERT 3\*\*\*\*\*

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636

Mr. Latta. Well, thank you again for your testimony.

637

And Dr. Beales, you are recognized for five minutes. Thank

638

you.

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639 STATEMENT OF HOWARD BEALES

640

641 Mr. Beales. Thank you, Chairman Latta, Ranking Member  
642 Schakowsky, and members of the subcommittee. I thank you for  
643 the opportunity to testify today.

644 I am Howard Beales. I am a professor of strategic management  
645 and public policy at the George Washington School of Business.

646 I've written academic articles about privacy and from 2001 to  
647 2004 I was the director of the Bureau of Consumer Protection at  
648 the FTC at the time when the commission promulgated the National  
649 Do Not Call Registry.

650 I want to make three essential points this morning. First,  
651 internet content is a public good. Private market provisions  
652 of such public goods has historically depended on revenue from  
653 advertising, as does internet content today.

654 Second, the value of advertising depends critically on the  
655 availability of information about the likely viewer. When  
656 information is available, advertising prices are, roughly, three  
657 times higher than when there's no information about the viewer.

658 Impairing the flow of information would significantly reduce  
659 the revenues available to support internet content, an impact  
660 that would be particularly problematic for smaller publishers.

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661 Third, advertising actually benefits consumers, leading to  
662 more competitive markets, lower prices, product improvements,  
663 and smaller differences between demographic groups.

664 To return to my first point, from an economic perspective,  
665 internet content is a public good. Unlike private goods, public  
666 goods are not used up in consumption.

667 Like free broadcast radio or television, any number of  
668 consumers can enjoy the content without any additional cost of  
669 providing it. The primary market mechanism for providing such  
670 goods is advertising, which converts the public good of media  
671 content into a private good of exposures to advertising.

672 Throughout history, advertising support has been a vital  
673 revenue source for media companies. Although purer subscription  
674 models exist, like satellite radio or premium cable TV, market  
675 behavior makes clear that most consumers most of the time are  
676 not willing to pay a premium price to avoid advertising.

677 Online content is not fundamentally different. Publishers  
678 must cover their costs and advertising is critical to achieve  
679 that objective. Given the long histories of  
680 advertiser-supported media markets, that fact should not be  
681 surprising and it's not likely to change.

682 Second, the value of advertising depends on information.

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683       What advertisers are willing to pay for an advertising slot  
684 depends critically on what they know about the viewer. However  
685 attractive to an individual viewer, anonymity reduces the price  
686 of the advertisement and therefore reduces the revenue available  
687 to support the content the viewer is enjoying.

688           In short, anonymity is a subtle form of free riding on the  
689 contributions of others. In two separate studies I've examined  
690 the impact of better information on the price of digital  
691 advertising.

692           In a 2010 study, I surveyed advertising networks to determine  
693 the impact of behavioral targeting which uses browsing behavior  
694 data to categorize likely consumer interest in a particular  
695 advertisement.

696           The price for behaviorally-targeted advertising was,  
697 roughly, three times higher than the price of run of network  
698 advertising sold without regard to audience characteristics, and  
699 that's a substantial prices premium.

700           My 2013 study analysed data from automated advertising  
701 exchanges. If there was a cookie available, the price of the  
702 advertisement was, roughly, three times higher than if there was  
703 no cookie. The longer the cookie had been in place, the more  
704 it was worth. With a 90-day-old cookie, the price was between

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705 3.7 and 7.1 times higher than the price with no cookie.

706 We also found that even the largest publishers sold about  
707 half of their ad slots through third-party technologies like ad  
708 exchanges while smaller long-tail publishers relied on these  
709 approaches for up to two-thirds of their advertising sales.

710 Thus, regulatory requirements that impair the flow of  
711 information will significantly reduce the revenue available to  
712 online content producers, leading to a less vibrant internet.

713 The impact will be greatest on the smallest publishers.

714 Many important participants in the online marketplace are  
715 not consumer facing at all because they work with publishers or  
716 advertisers to observe behavior across independent websites.

717 Consumers have never heard of most of them, for example,  
718 33Across, Accuen, Acuity, and Adara, which happen to be the first  
719 four names on the list of members of the national advertising  
720 -- network advertising initiative.

721 More elaborate consent requirements could seriously  
722 disadvantage these companies with the primary effect of  
723 protecting the market shares of the current leaders in the online  
724 advertising market.

725 As in any other market, regulatory barriers that protect  
726 market leaders from competition are bad for consumers.

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727           Finally, advertising is not evil. It provides important  
728 benefits for consumers. Numerous economic studies have shown  
729 that restrictions on advertising increase prices for consumers.

730           Advertising also facilitates innovation and narrows the  
731 differences between demographic groups. Advertising the  
732 relationship between fiber consumption and cancer, for example,  
733 resulted in the greatest increases in fiber consumption in racial  
734 minority and single parent households.

735           When eyeglass advertising was restricted, the least educated  
736 paid the highest prices.

737           To summarize, the provision of internet content depends on  
738 advertising revenue. That revenue, in turn, depends on the  
739 availability of information about the viewer, and online  
740 advertising, like other advertising, benefits consumers.

741           Thank you again for the opportunity to testify today and  
742 I look forward to your questions.

743           [The prepared statement of Mr. Beales follows:]

744

745 \*\*\*\*\*INSERT 4\*\*\*\*\*

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40

746 Mr. Latta. Well, Dr. Beales, thank you very much for your  
747 testimony today and, again, I want to thank all of our witnesses  
748 for being here and we'll move into the question and answer portion  
749 of our hearing.

750 I will begin the questioning and recognize myself for five  
751 minutes.

752 Ms. Glasser, would you describe some of the tools that are  
753 used to track consumers online and would you also tell what kinds  
754 of information digital ad businesses have about consumers and  
755 what they use it for?

756 Put that mic on, please. Thank you.

757 Ms. Glasser. Thank you. Thank you, Congressman, for your  
758 question.

759 Sure, there are many different tools that you can use to  
760 track users online. I think it really could depend on the  
761 platform that you're using.

762 Persistent identifiers tend to be of the most common and  
763 those would include things like cookies or advertising IDs. They  
764 don't identify an individual personally so they're not personally  
765 identifiable. Instead, it allows to -- it allows the advertiser  
766 to make associations and inferences on the types of behavior and  
767 the types of things that a consumer enjoys.

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41

768 And can you repeat the second part of your question?

769 Mr. Latta. Yes, and would you tell us also what kind of  
770 information the digital ad businesses have about consumers and  
771 how it's being used?

772 Ms. Glasser. Sure. Again, I think that also depends on  
773 who you're speaking to in the supply chain. But, generally, for  
774 a company like mine, the type of information that we usually hold  
775 on the consumers would be things related to a cookie.

776 So that could include an IP address, cookie ID, browser  
777 information. For example, if you're using a certain version of  
778 Google Chrome or Internet Explorer, it might include a time stamp  
779 and a date for verification purposes. It could really vary,  
780 depending on how you set the cookie to collect information.

781 Mr. Latta. Thank you.

782 Mr. Zaneis, how significant of a problem are bots and fake  
783 accounts in the digital ad ecosystem?

784 Mr. Zaneis. There's no question that it's a massive  
785 challenge and a problem for the entire ecosystem. I think then  
786 there's a recognition that no industry can be based off of this  
787 high level of fraud.

788 The number that you quoted of 22 percent fraud in certain  
789 display units -- you know, we used to have a discussion around

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790 is fraud 20 percent of all inventory or 30 or 40 percent.

791 Over the last two years, we've sort of turned the corner  
792 on that. We have not solved it. But now what we see, again,  
793 working with reputable partners it's relatively easy to get your  
794 fraud rate down well into, as I mentioned, less than 1.5 percent.

795

796 I sometimes look at other industries like, you know, produce  
797 shippers and manufacturers that have spoilage and breakage rates  
798 around 15 to 20 percent and I look at where we are getting the  
799 industry and think we are doing a good job.

800 Mr. Latta. Let me follow up on that. Is there a conflict  
801 of interest in the industry if fake accounts are driving traffic  
802 numbers higher?

803 Mr. Zaneis. No. I think that that's a common myth that  
804 has been put out there by some advertising naysayer -- that because  
805 there can be more revenue generated by more traffic, even  
806 fraudulent traffic.

807 There's no question that some companies -- legitimate  
808 companies -- could make more money from that. We always say in  
809 the industry that there are crimes of omission and there are crimes  
810 of commission, and sort of sitting back and maybe getting a little  
811 extra revenue from a few fake hits on your website used to happen

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812 all the time.

813 Nobody in our industry is committing commission crimes of  
814 actually committing fraud, but I am happy to say that now the  
815 respectable companies -- as I mentioned, 680 companies have sought  
816 to join TAG -- now we've turned the corner on the crimes of  
817 omission.

818 Mr. Latta. Okay. Thank you.

819 Ms. Glasser, in about my last minute that I have, if I wanted  
820 to create a website today and sell advertising space, for example,  
821 a banner ad, and some ads along the side, how difficult would  
822 that be and how much would it cost me to get started, especially  
823 if I was a small business?

824 Ms. Glasser. I would not be able to comment on how much  
825 it would cost because that could really depend on --

826 Ms. Schakowsky. Mic.

827 Ms. Glasser. Sorry. It's my first time doing this.

828 [Laughter.]

829 Mr. Latta. It's fine.

830 Ms. Glasser. I would not be able to comment on what it could  
831 cost or even a range because that could really depend on the size  
832 of the audience you're trying to market to or that you're trying  
833 to attract to your website.

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834 It could also depend on the type of the audience, right.

835 Mr. Latta. How about the difficulty, though? How  
836 difficult would it be for somebody to go out there to do that  
837 -- to get a banner?

838 Ms. Glasser. It's not very difficult. You would most  
839 likely have to engage with either -- I think the easiest thing  
840 to do would be engage with an ad agency because they could  
841 basically do everything turnkey for you, or you could probably  
842 approach some ad networks on your own.

843 I've really only worked with ad networks from an agency  
844 perspective so I wouldn't know how it is personally to go and  
845 do it. But I think some of the bigger companies and some of the  
846 companies who have been around a lot longer probably, you know,  
847 have certain teams to handle the smaller businesses.

848 Mr. Latta. Okay. Well, thank you. My time has expired  
849 and I will recognize the gentlelady from Illinois, the ranking  
850 member of the subcommittee, for five minutes.

851 Ms. Schakowsky. Thank you.

852 Mr. Brookman, in your written testimony you say just last  
853 week, Vice published a story purporting to prove that Facebook  
854 listens to ambient conversation for the -- for ad targeting  
855 purposes.

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856           You acknowledge that privacy researchers cast doubt on the  
857 story but the fact that leading authorities cannot even agree  
858 on whether Facebook is mining personal audio conversations is  
859 emblematic of the generalized confusion about privacy.

860           We do know, for example, that Samsung's smart TVs do record  
861 everything. They have some sound -- some voice-responsive  
862 feature. And I don't know what disclosure means, if it's in,  
863 you know, some sort of tiny print thing that you can find when  
864 you unbox the TV.

865           We also know that Vizio, also a TV, tracks second by second  
866 viewing information. There is right now an FTC enforcement  
867 action, or there was, against them because they did not disclose  
868 that.

869           So, you know, what do consumers know and what don't they  
870 know and how should they know, and should this be done even if  
871 they are informed?

872           Mr. Brookman. Yes. No, I think that's a good question.

873           You know, I think there's just a lot of understandable  
874 uncertainty because there's so many sensors, right, all around  
875 our house.

876           We have Echos. We have -- we have a microphone right now.  
877 I mean, according to that Vice article, you know, any company

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878 could be listening to it.

879 I do think that, you know, there are actually -- some  
880 companies are kind of scared to go there. I know that Samsung  
881 in their privacy policy reserved the right to listen to everything  
882 you do. But they did, I think, fortunately, clarify that no,  
883 we will only actually listen when the button is pressed down,  
884 and I think that's the right choice.

885 Facebook has also tried to clarify, you know, we will only,  
886 you know, listen, you know, if you -- we don't listen to what's  
887 going on ambiently.

888 But I think that's the question. I mean, according to Dr.  
889 Beales' testimony, it would actually probably be good if Facebook  
890 were listening to every single thing that I say and not just  
891 Facebook but also Google or Samsung or any of the 650 companies  
892 that Mr. Zaneis mentioned because it could give us, you know,  
893 more targeted ads.

894 I think consumers reject that and I do think it's actually  
895 unfair to kind of try to put that burden on consumers to try to  
896 figure out, you know, what every single company is doing, which  
897 is why I definitely support what you're saying -- that there should  
898 be some basic rules of the road to empower consumers to kind of  
899 take some control over all these devices.

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900 Ms. Schakowsky. Thank you.

901 What do you mean by rules of the road? Should we be passing  
902 legislation?

903 Mr. Brookman. Yes. So there's a few things that could be  
904 done, like just better transparency for first, right. I mean,  
905 right now privacy policies -- if you -- if you look at them --  
906 you know, I review privacy policies as part of my job. I can't  
907 make heads or tails of them, and that's my job, right. They don't  
908 actually say what companies are doing. They reserve really broad  
909 rights to do stuff.

910 Actually requiring disclosure kind of like SEC filings  
911 would, I think, will probably have some degree of accountability  
912 for consumers who should not be affected, read those but for  
913 regulators and for folks like me who, like, try to rate products  
914 based on these sorts of things, there should be easier kind of  
915 global choices. I talked about do not track, which is a thing  
916 that I worked on for a long time. You should be able to, you  
917 know, opt out of everything at once. I mean, maybe it should  
918 be opt in for some things, right, or maybe some things that just  
919 shouldn't be happening.

920 You know, principles like data minimization -- don't just  
921 collect every single thing, like, through the microphone just

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922 because it might be interesting one day. You know, security --  
923 well, we don't have baseline security legislation in this country.

924

925 The FTC has done a pretty good job of trying to interpret  
926 the statutes to require it. But they've run into some roadblocks.

927 You know, access to your information -- if the company has the  
928 information about you they should tell you about it.

929 And so, I mean, there's been proposals floating around I  
930 think there are some good elements to, there's some bad element  
931 too, but, certainly, where we are right now where there's very  
932 little law, right, the basic privacy law is Section 5 of the FTC  
933 Act, which just says don't lie. And don't lie is a good principle  
934 but it's not enough, right. I mean, don't lie -- if it's why  
935 I have these privacy policies I can't figure out what they're  
936 saying.

937 Ms. Schakowsky. In the few seconds I have, how common is  
938 it that there's discrimination in terms of -- and maybe that's  
939 a loaded word -- but in terms of hiring ads that do, particularly,  
940 age discrimination?

941 Mr. Brookman. Yes. So I am familiar with the ProPublica  
942 work that was pointed out -- you know, targeted ads for age but  
943 also, you know, you are allowed to target ads based on racist

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944 terms, right.

945 And part of the problem is, you know, Facebook is, like,  
946 a \$500 billion company, or whatever -- they make a lot of money  
947 -- but they don't have a lot of staff, right.

948 They don't review all these things. It's all automated.  
949 It's all programmatic, which is efficient in some ways, but it's  
950 harder to snake out the fraud and the discrimination.

951 And I have a lot of respect for the work that Mr. Zaneis  
952 does to try to tackle that. But by and large, I mean, you look  
953 at the sort of ads that you see online. A lot of times they're  
954 a bad experience for consumers.

955 Ms. Schakowsky. Thank you. I yield back.

956 Mr. Latta. Thank you. The gentlelady yields back.

957 The chair now recognizes the gentleman from Illinois, the  
958 vice chair of the subcommittee, for five minutes.

959 Mr. Kinzinger. Well, thank you, Mr. Chairman. I thank you  
960 all for being here today.

961 Professor Beales, we want the internet to continue to thrive  
962 but we also don't want consumers to lose faith in the internet  
963 because their information is being used in an unanticipated or  
964 even a harmful way.

965 Aren't there some baseline protections that would balance

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966 both innovation and consumers' trust in the privacy of their  
967 sensitive online information?

968 Mr. Beales. Well, I think the approach you're trying to  
969 get consumers to understand the gory details of how this works  
970 and make choices on a provider by provider basis is just hopeless.

971

972 It's like trying to understand -- trying to ask consumers  
973 to understand all of the code that's on your computer and how  
974 it works and what it does. It's not going to happen.

975 It shouldn't be used -- the information, however it's  
976 collected and by whoever it's collected, should not be used in  
977 ways that are harmful to consumers.

978 But you need to figure out what harm you're worried about  
979 and figure out what's the best way to stop that harm specifically.

980 It's not an information problem. It's what people are doing  
981 with the information and if there's specific things that they're  
982 doing that are bad that's what you ought to address.

983 But targeted advertising isn't one of those.

984 Mr. Kinzinger. Yes, and so that you basically answered my  
985 second question, which is shouldn't the privacy protections be  
986 based on the potential for consumer harm and I think --

987 Mr. Beales. Absolutely. Absolutely.

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988 I mean, that -- I think it's always been telling to me that  
989 in Europe it's about data protection and in the U.S. we do privacy  
990 through a consumer protection agency.

991 Mr. Kinzinger. More people now access the internet from  
992 a device -- phone, tablet, or IOT product -- than from desktops  
993 or laptops. Knowing the geolocation of a consumer is  
994 increasingly important to these companies. Not only can  
995 companies target ads based on location but companies like Google  
996 and Facebook can assemble profiles and patterns of life about  
997 consumers.

998 I would like to hear your opinions about as to whether precise  
999 geolocating information should be considered sensitive  
1000 information, meaning consumers should have to affirmatively opt  
1001 in for tracking and collection of their location.

1002 So Mr. Zaneis, can you explain to me how consumers are tracked  
1003 between devices and how is it that ads on one device might be  
1004 seen on another?

1005 Mr. Zaneis. Sure. Thank you for the question.

1006 Just to be clear, TAG does not work on consumer privacy  
1007 issues. But I certainly have a lot of experience here and have  
1008 testified in front of the subcommittee in the past on privacy  
1009 issues and data issues. So I am happy to elaborate a little bit.

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1010           Certainly, there are technologies -- desktop and mobile  
1011 browsing is technologically different than mobile apps, and  
1012 cookies don't generally exist in the mobile app space. So you  
1013 have different types of identifiers such as device identifiers  
1014 for a mobile phone or a tablet that can be used.

1015           But the concept is the same, which is advertising requires  
1016 an identifier. Whatever it is is less important. The technology  
1017 that empowers it is less important than what it is, and we've  
1018 proven, as an industry -- Ms. Glasser mentioned the Digital  
1019 Advertising Alliance and the Network Advertising Initiative to  
1020 wonderful self-regulatory programs not dissimilar from TAG that  
1021 have been able to put in place consumer protections even in the  
1022 mobile space.

1023           Really, the key is to be technology agnostic but to set policy  
1024 and self-regulatory principles based on principles and standards  
1025 that everybody must meet. I think that's the effective method.

1026           Mr. Kinzinger. Thank you.

1027           Back to you, Professor. There's been a lot of debate about  
1028 the concept of selling data, which culminated with the Facebook  
1029 hearings recently.

1030           These large online businesses often assert that they don't  
1031 sell their consumers' private -- personal information to anyone.

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1032        Yet, five data companies -- Google, Facebook, Apple, Microsoft,  
1033        and Amazon -- represent a combined market share of nearly \$4  
1034        trillion.

1035                So regardless of ownership of the data, they're well  
1036        compensated for their commodities through the transactions that  
1037        they conduct. What do you think of their claim that they don't  
1038        sell consumer data and is it really as nuanced as they -- as they  
1039        say?

1040                Mr. Beales. Well, the way I've seen it in the context of  
1041        ad exchanges for -- you know, for the purchase and sale of the  
1042        advertising is there's not data that's bought and sold but there  
1043        are cooperators in that process who are sharing data.

1044                For example, an ad comes up that General Motors might be  
1045        interested in. The publisher sends some information about what  
1046        it knows about me based on the cookies that are on my machine  
1047        to the ad exchange.

1048                Somebody who's a potential bidder, like General Motors, who  
1049        knows something else about me matches that information and now  
1050        they know more than either party knew in the first place and they  
1051        use that information in deciding on whether to bid on the ad.

1052                But people think -- companies in this space tend to think  
1053        their data is their lifeblood and they're not going to give it

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1054 to somebody else. I mean, they hold on to it as closely as they  
1055 can is the experience I've seen.

1056 Mr. Kinzinger. And just -- with 10 seconds, because I am  
1057 going to just get yes or no -- consumer privacy laws and policy  
1058 makers have regularly complained about the length and complexity  
1059 of consumers facing privacy policies.

1060 Do any of you believe consumers have a clear understanding  
1061 of what's contained in a privacy policy? And so a quick yes or  
1062 no from each of you would be great.

1063 Ms. Glasser. No.

1064 Mr. Beales. No.

1065 Mr. Brookman. No.

1066 Mr. Zaneis. No.

1067 Mr. Kinzinger. Thanks. I yield back.

1068 Mr. Latta. The gentleman yields back and the chair now  
1069 recognizes the gentlelady from California for five minutes.

1070 Ms. Matsui. Thank you, Mr. Chairman, and thank you very  
1071 much for our witnesses here today.

1072 As we discuss here today and in previous hearings a  
1073 fundamental tenet of digital advertising is explaining to  
1074 consumers what data is being collected and for what purpose --  
1075 in other words, providing meaningful and robust transparency.

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1076 But that, of course, is more complex than a list of the  
1077 information on the types of data collected and whether that data  
1078 is sold.

1079 Specifically, companies are able to take user data and sell  
1080 ads based on the data users provide to those platforms without  
1081 having to ever sell that data to a third party, and the more data  
1082 that platforms have access to and, importantly, the more they  
1083 can use that data to create inferences to target these users,  
1084 the better these platforms can target advertisements.

1085 Entire panel -- so even if data isn't so-called sold, how  
1086 do we work towards meaningful transparency with both more clarity  
1087 and nuance about data usage that don't make distinctions without  
1088 differences?

1089 Anyone want to start?

1090 Ms. Glasser. Sure. I think, plain and simple, we just need  
1091 to be better at describing what we do. It is a complicated space.

1092 It does get very technical and I think the easiest way to explain  
1093 what we do is to provide an example. Explain to the user what  
1094 happens when they go to Facebook or why they're seeing a certain  
1095 ad.

1096 I think in addition to that, the self-regulatory groups have  
1097 made a tremendous effort toward that end by creating an icon that's

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1098 supposed to indicate when certain types of advertising is  
1099 happening or a certain type of data collection is happening for  
1100 interest-based advertising which I talked about earlier.

1101 Ms. Matsui. Right.

1102 Ms. Glasser. I think we just need to be more clear and we  
1103 need to write these policies much better.

1104 Ms. Matsui. Do you agree?

1105 Mr. Zaneis. I do. I mean, we all just agreed that privacy  
1106 policies are not understandable by consumers just because you  
1107 have to tell the truth but that's all you have to say and you  
1108 have to disclose everything. It's not a -- it's not an effective  
1109 mechanism for disclosure, which is why programs such as industry  
1110 self-regulatory ones -- the DAA and NAI -- are so important.

1111 A lot of these third-party entities don't have a consumer  
1112 touch point. So having a very simple policy disclosure outside  
1113 of a privacy policy is key, and I will just add I think then the  
1114 platforms that do have a consumer touch point have done a fantastic  
1115 job of developing things like privacy centers and communicating  
1116 with their users clearly.

1117 Ms. Matsui. Okay. Okay.

1118 Mr. Brookman. Yes. I mean, I think you're right that  
1119 companies like Facebook or AT&T they make a big deal of the fact

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1120 that they don't sell the data, right, but then it goes down to  
1121 the question of excess data collection.

1122 You know, I give Facebook a lot of information about me on  
1123 plenty of stuff -- pictures of my kids, things I like, my religious  
1124 and political affiliation.

1125 But that's not good enough, right. I mean, they actually  
1126 -- and this was I thought a fascinating part of the Cambridge  
1127 Analytica hearings -- a lot of the questions were not about  
1128 Cambridge but how Facebook watches what I do in all my other apps  
1129 and websites, and that's the thing I think a lot of folks object  
1130 to.

1131 So, really, you know, AT&T is like a service provider for  
1132 me. They never used to listen to my phone calls to try to target  
1133 ads to me. Do they have a -- should they be able to watch  
1134 everything I do online where I have no control because they're  
1135 my pipe in order to target ads.

1136 I think that's the sort of out of context data collection  
1137 and use that I think consumers object to. I think they're  
1138 surprised by that. I think that there should be maybe more  
1139 prohibitions but very much at least some sort of rights.

1140 Ms. Matsui. Do you think the public is more aware of this  
1141 today based upon what's happening -- the coverage?

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1142 Mr. Brookman. I think -- I think there's a generalized  
1143 awareness that our privacy is under siege. This kind of goes  
1144 to the questions from Ranking Member Schakowsky. I think people  
1145 feel like, I am being listened to all the time by everyone --  
1146 what do I do about it -- what's happening now. And I think there's  
1147 just a lot of paralysis and a lot of confusion and a lot of, like,  
1148 upset, right. I mean, we talked about the poll numbers. People  
1149 don't like it but they don't know how to --

1150 Ms. Matsui. They don't know what to do.

1151 Mr. Brookman. They don't know what to do. That's exactly  
1152 right.

1153 Ms. Matsui. Okay. How about you?

1154 Mr. Beales. Well, as I said, I think -- I think the key  
1155 is to think about what it is that we are worried about would happen  
1156 as a result of this information and then think about ways we can  
1157 keep that from happening.

1158 The information is out there. It can be observed in a lot  
1159 of different ways using a lot of different technologies, and new  
1160 ones will be invented if not every day every year.

1161 Ms. Matsui. Right. The horse has left the barn, to a  
1162 degree, so we have to figure out what we could do about it and  
1163 try to explain it to everybody so people understand it, and then

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1164 it's more of sense of how we deal with our own data and  
1165 understanding as we click on things what could happen, right?

1166 Yes. Okay. Well, I am running out of time so I yield back.

1167 Thanks.

1168 Mr. Latta. Thank you. The gentlelady yields back the  
1169 balance of her time.

1170 The chair now recognizes the gentleman from Michigan, the  
1171 chairman of the Subcommittee on Energy and the former chair of  
1172 the full committee for five minutes.

1173 Mr. Upton. Well, thank you, Mr. Chairman.

1174 Ms. Glasser, I want to follow up a little bit on what Ms.  
1175 Matsui said. In your testimony, you stated, quote, "Using and  
1176 sharing a consumer's name or similarly identifiable information  
1177 is not necessary in many cases to provide rich, personalized,  
1178 and relevant advertising."

1179 So what's your thoughts as to why Facebook does in fact  
1180 collect so much information along those lines like phone numbers  
1181 and location and calling histories? What information -- what  
1182 are they doing with that if they don't really need it and to tee  
1183 up that interest-based ad?

1184 Ms. Glasser. Thank you for your question.

1185 Mr. Upton. If you want to comment. I don't --

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1186 Ms. Glasser. Yes. I can't speak specifically to the  
1187 motives behind Facebook for doing it. Just simply, I don't have  
1188 that insight.

1189 However, my perception of the reason why they collect it  
1190 is when you sign up for their platform, you have to provide this  
1191 information so you can create your actual profile page.

1192 Now, as I understand it, I don't think you actually have  
1193 to give your phone number but in that case if you decide to it's  
1194 a way that they can -- they use it for a means to text you certain  
1195 sort of updates or they can use your phone number to identify  
1196 that particular device and be able to provide you continuity of  
1197 services. Maybe you get a new phone but, you know, the phone  
1198 number is the same. The device is different. It's a way for  
1199 them to keep linking it.

1200 Facebook is sort of a unique case in the broader ecosystem  
1201 because they are a subscription-based platform. When you go to  
1202 Facebook you provide your email, your name, and all of that  
1203 information as a condition of signing up.

1204 I think when you are looking on a website just like New York  
1205 Times, for example, or the Washington Post, unless you have a  
1206 subscription -- let's assume you don't -- you're not providing  
1207 any of that information.

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1208           You're not giving your name, your phone number, your email  
1209 address, and you don't need to in order to get advertising placed  
1210 on that site that's relevant to your interests or things that  
1211 you might have looked at before.

1212           Mr. Upton. So you mentioned a little bit earlier about the  
1213 icons and I know that the Digital Advertising Alliance launched  
1214 last month an industry-wide initiative including a political ad  
1215 icon for consumers.

1216           Are you aware of any political ads currently branded with  
1217 that new icon?

1218           Ms. Glasser. I don't, but I just haven't seen them myself.  
1219 I am sure I will start seeing them after this conversation because  
1220 it always comes up after you talk about it. But I have not myself  
1221 seen them yet.

1222           Mr. Upton. Great.

1223           Mr. Zaneis, can you explain how the third-party validation  
1224 processes exist and how they work?

1225           Mr. Zaneis. Third-party validation as far as our  
1226 certifications are concerned? Thanks for asking the question.

1227           You know, any certification program is only as strong as  
1228 the validation process behind it. So we work with a number of  
1229 independent audit firms and the majority of our members actually

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1230 go through a third-party audit, which is very significant and  
1231 they literally are on the site, kicking the tires, looking under  
1232 the hood to make sure that the companies are complying with our  
1233 standards, and I will take it one step further, because if you  
1234 go up the supply chain a little bit a lot of our efforts to fight  
1235 criminal activity are supported by really niche technically  
1236 sophisticated companies -- what we call vendor companies -- an  
1237 anti-fraud vendor, for example -- which they also go through an  
1238 independent accreditation from the Media Ratings Council. So  
1239 they may go with EY or somebody like that and go through a very  
1240 extensive certification process.

1241 It's really key to raise the bar.

1242 Mr. Upton. Well, I just want to say as a native Michigander  
1243 I really appreciate your testimony. Thank you.

1244 Mr. Zaneis. I appreciate it. Thank you.

1245 Mr. Latta. The gentleman yields back and the chair now  
1246 recognizes the gentlelady -- oh, I am sorry, I think Mr. Green  
1247 just walked in.

1248 Mr. Green is recognized for five minutes.

1249 Mr. Green. I want to thank the chairman and the ranking  
1250 member for holding this hearing. The two biggest online privacy  
1251 scandals in the past year has come through this subcommittee --

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1252 the Equifax breach and the Facebook Cambridge Analytica issue  
1253 -- and I hope we can soon see some legislation on the books to  
1254 protect Americans online.

1255 Mr. Brookman, we know that small businesses as well as larger  
1256 corporations sometimes benefit from consumer data since it allows  
1257 them to show their ads to customers who are mostly likely to want  
1258 their product.

1259 Do you know -- do we know how common it is for small to  
1260 medium-sized businesses to use tracking technology as compared  
1261 to larger businesses?

1262 Mr. Brookman. I don't have that information. But I will  
1263 grant the point -- that it's small businesses, large businesses.

1264 Lots of companies rely -- use behavioral targeting ad tracking  
1265 to reach their customers.

1266 I will also concede Dr. Beales' point that in some cases  
1267 those ads may be more valuable. I do think the vast majority  
1268 of ads are not in fact behavioral and I do know that leading  
1269 publisher trade associations like Digital Content Next -- they  
1270 used to be the Online Publishers Alliance -- have been one of  
1271 the more aggressive forces calling for actually privacy  
1272 protection. Even though -- and we are a member too, right --  
1273 I mean, even though those companies use targeting, they think

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1274 it would be better for the ad ecosystem if there were some more  
1275 protections in place.

1276 It would be partly just for confidence in the ecosystem,  
1277 partly because a lot of the excess consumer surplus is just flowing  
1278 to companies, to Facebook, and to Google and also because, I mean,  
1279 they're seeing companies or users deploy ad blockers because the  
1280 self-regulatory efforts that have happened so far haven't been  
1281 sufficient to address a lot of these concerns.

1282 Mr. Green. Okay. Any -- do you have any thoughts on whether  
1283 there are any way for any potential online privacy law at the  
1284 federal level to balance potential benefits to businesses along  
1285 with better consumer privacy?

1286 Mr. Brookman. Yes, absolutely.

1287 I mean, it's a thing that I've worked on for a number of  
1288 years. The United States is kind of an outlier around the world  
1289 and most countries have some sort of basic privacy laws on the  
1290 books to give folks control.

1291 United States is one of the rare exceptions so they don't.  
1292 The default law is just don't lie to folks, which has not been  
1293 sufficient to really safeguard privacy.

1294 So yeah, having something on the books that provides better  
1295 information -- again, I don't want all the onus to be on consumers

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1296 to try to figure out, you know, every single thing so I think,  
1297 you know, a lot of this out of context data collection, data usage,  
1298 may be, you know, should be prohibited in some cases, right.

1299 At the very least, though, there should be some more -- at  
1300 least a stronger ability to say no, right. A lot of folks just  
1301 -- you know, they feel like they want control. They feel like  
1302 they're being monitored. They wish they could do more. They  
1303 don't have the information or ability to do so today.

1304 Mr. Green. Well, and after our hearing with Facebook, we  
1305 realized that, you know, somewhere along the way you can't  
1306 accumulate this data without marketing it and that's the reason.

1307 But like you said, and I hear, you know, the balance of the  
1308 consumer privacy, I really want to get permission for it. I don't  
1309 want them taking it from me without the -- without knowing.

1310 Can you discuss ways to balance the consumer privacy which  
1311 polling shows is extremely the high priority for Americans with  
1312 any benefit that may sometime come from these ads?

1313 Mr. Brookman. Yes. I mean, Facebook has a lot of  
1314 information about me. They have -- like, they know where I live.  
1315 They can serve me plenty of targeted ads.

1316 What I object to is them watching every place I do online,  
1317 you know, in order to monitor me in ways I don't expect.

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1318           They started doing that back in 2011 or so when they started  
1319 rolling out like buttons and people would see a like button --  
1320 oh, I can press this, I can click like.

1321           What it didn't realize is that meant Facebook was watching  
1322 them whether they clicked the button or not, right. And so that's  
1323 the sort of thing I think folks object to. That's the sort of  
1324 thing I think -- that's all that members are objecting to when  
1325 -- during the Cambridge Analytica hearings.

1326           That's the sort of thing I think consumers, like, don't  
1327 expect and that there should be stronger rules in place for whereas  
1328 today there really aren't.

1329           Mr. Green. Well, I even have a staff member who said he  
1330 was planning to get married so he was looking for wedding rings  
1331 and all of a sudden he saw these adds all pop up on his handheld.

1332           So, I mean, it's a problem but how do we deal with it? While  
1333 you were at the FTC you worked on a commissions cross-device  
1334 tracking report. Can you tell us some of your concerns about  
1335 companies following people across these multiple platforms?

1336           Mr. Brookman. Yes, absolutely. So I think it's just  
1337 unexpected in ways that folks, you know, don't necessarily think  
1338 that just because I am on my phone I will suddenly -- if I am  
1339 searching for wedding ring on my phone suddenly on my desktop

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1340 computer which, by the way, I share with my live-in girlfriend  
1341 suddenly she starts seeing pop-up ads over there for the wedding  
1342 rings I was looking at.

1343 I think a lot of folks don't necessarily expect that and  
1344 I think they --

1345 Ms. Schakowsky. You better get married.

1346 [Laughter.]

1347 Mr. Brookman. Exactly. It's a lot of pressure.

1348 But I think, I mean, the information is used in ways that  
1349 are surprising. So online tracking used to be fairly anonymous  
1350 but now if you go a publisher you type in -- if you log in on,  
1351 you know, Justin at Gmail, you know, that website might then spew  
1352 out to a bunch of ad networks hey, that's Justin, right. And  
1353 so they are now tracking by real name in ways that they hadn't  
1354 done before.

1355 And so I think these are the sorts of things that are  
1356 unexpected and I think when people know about them they're up  
1357 in arms. They're controversial, and they wish there were more  
1358 limitations or at least controls around.

1359 Mr. Green. Mr. Chairman, just briefly, I heard that if I  
1360 have a smart TV and I have my handheld, my iPhone, they can actually  
1361 know what they're doing and together is there any solution there?

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1362       Should we just turn it off?

1363             Mr. Brookman. Yes, it's tricky.

1364             Mr. Green. I really don't like the appliances talking about  
1365 me.

1366             [Laughter.]

1367             Mr. Brookman. It's a big conspiracy and I wish they would  
1368 knock it off.

1369             You know, things like -- most of these companies do offer,  
1370 like, opt out. So there are controls but they're kind of hard  
1371 to find.

1372             And so, I mean, one thing we try to do in Consumer Reports  
1373 is like, say hey, if you want to knock this off, you know, here's  
1374 how to do it.

1375             It's just, like, a lot of labor, right. I mean, we all have  
1376 -- we all got a lot going on. We don't want to have to spend,  
1377 like, half an hour configuring our smart TV to, like, not talk  
1378 to the toaster, right.

1379             I mean, there should be some things that by default just  
1380 don't happen.

1381             Mr. Green. Thank you, Mr. Chairman.

1382             Mr. Latta. The gentleman's time has expired and yields  
1383 back, and the chair now recognizes the gentleman from New Jersey

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1384 for five minutes.

1385 Mr. Lance. Thank you, Mr. Chairman.

1386 I want the panel to know I've been happily married for a  
1387 generation and none of these matters pop up on my computer.

1388 This subcommittee had Mr. Zuckerberg testify before us two  
1389 months ago. As others on the panel have indicated, reports last  
1390 week revealed that Facebook has data assuring partnerships with  
1391 many device makers, including Chinese firms that U.S.  
1392 intelligence agencies have labelled national security threats.

1393 Following these reports, I sent Mr. Zuckerberg a letter  
1394 indicating my continued frustration with Facebook's handling of  
1395 users' data.

1396 I reiterated a statement I made at our April hearing that  
1397 I believe Facebook may have violated its 2011 consent agreement  
1398 with the Federal Trade Commission.

1399 I believe Facebook's issues are interrelated with the  
1400 subject of this hearing, digital advertising, as the company makes  
1401 the vast majority of its profits from advertising, reporting \$40  
1402 billion in revenue from advertising alone in 2017.

1403 Another issue I am concerned about is the increase in fake  
1404 news advertisements and foreign interference in our electoral  
1405 process.

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1406 I am one of the co-sponsors of the bipartisan Honest Ads  
1407 Act, which enhances disclosure requirements and transparency for  
1408 online political advertisements.

1409 I was pleased that Facebook pledged its support to the bill  
1410 and I thank the panel for being with us this morning.

1411 To the panel in general, from your expertise, how do  
1412 companies balance the need to protect privacy while also offering  
1413 the most effective advertising platforms to their clients?

1414 Ms. Glasser.

1415 Ms. Glasser. Thank you. I -- there is a lot of things that  
1416 we do before we engage with a company for advertising or analytic  
1417 services.

1418 To us, it's of paramount importance to make sure that we  
1419 are working with companies who behave appropriately and who do  
1420 the right thing. It's our reputation on the line, and if we get  
1421 caught up in things like misuse of data or data collecting --  
1422 being collected improperly, you know, that's a clear black mark  
1423 on us.

1424 At the same time, we can't obviously control other companies.

1425 However, we have some expensive due diligence that we put in  
1426 place, whether it starts with reading a company's privacy policy,  
1427 ensuring they offer opt-out, ensuring they're actually describing

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1428 how their services work, if they just describe data collection  
1429 on their own website that doesn't necessarily get us where we  
1430 need to be because consumers are using their services and their  
1431 platforms and not necessarily their website.

1432 So we go through some extensive efforts to make sure that  
1433 the companies we are working with are at least taking an effort  
1434 to do the right thing, whether it's members of industry  
1435 associations such as TAG or the NAI and DAA, it provides a level  
1436 of comfort to know that they too recognize a lot of the issues  
1437 and that they too are obliged to put certain protections in place.

1438 Mr. Lance. Thank you. Others on the panel?

1439 Mr. Zaneis. Yes. I think Ms. Glasser nailed it as far as  
1440 every company really has to take privacy very seriously because  
1441 it impacts their reputation in his market and it's a very fluid  
1442 market. It's a very diverse market, and consumers can go to any  
1443 of your competitors with one click.

1444 In my experience, it's been companies -- early adopters in  
1445 self-regulatory programs -- it's a good signal that they care  
1446 about it and in working it helps establish both the Digital  
1447 Advertising Alliance almost a decade ago and now TAG three years  
1448 ago. Facebook has always been an early adopter and a good  
1449 participant.

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1450 Mr. Lance. Mr. Brookman.

1451 Mr. Brookman. Yes. I mean, I will ultimately grant that,  
1452 you know, I have friends that -- who work at privacy companies  
1453 and they do a lot.

1454 I just think that the balance is off -- that there's always  
1455 this wide-eyed enthusiasm that big data will save everything while  
1456 folks tend to be very dismissive that things might go wrong.

1457 And I think, you know, the consequences if they go wrong,  
1458 there really isn't enough risk. There's not any -- Ranking Member  
1459 Schakowsky talked about how the Federal Trade Commission -- you  
1460 know, even if a company does violate the fairly week laws that  
1461 we have can't get penalties in most of the cases. They have a  
1462 limited staff to police -- like, again, all these things that,  
1463 again, leading academic experts can't even figure out.

1464 When I was at the FTC, you know, I worked in their division,  
1465 their office of technology, research, and investigations designed  
1466 to try to help bring more tech expertise to the FTC. But we were  
1467 understaffed. And so I think, you know, there's just not enough  
1468 reason to try to safeguard privacy in the existing legal  
1469 framework.

1470 Mr. Lance. Thank you. My time has expired but I look  
1471 forward to working with all of the distinguished panel members.

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1472 Thank you very much, Mr. Chairman.

1473 Mr. Latta. Thank you. The gentleman's time has expired,  
1474 and the chair now recognizes the gentlelady from Michigan for  
1475 five minutes.

1476 Mrs. Dingell. Thank you, Mr. Chairman.

1477 I am not calm like anybody here. I listened to all of you  
1478 this morning. I've listened to my colleague, Ms. Schakowsky.

1479 I don't have an Alexa in my house. I don't want anybody  
1480 listening.

1481 We've seen examples of people knowing that we are being  
1482 listened to and, you know, in the past we've been told to just  
1483 trust companies that hold our personal information, and that our  
1484 information was used in a transparent process.

1485 We, obviously, now know that that's not the case and I think,  
1486 quite frankly, the trust is wearing thin. You say, well,  
1487 consumers are kind of worried about it but what can you do about  
1488 it.

1489 Consumers don't understand how much that data is being used  
1490 and how it can be used.

1491 Dr. Beales, I didn't sleep last night. I was up all night  
1492 for two reasons. One, I pulled out my paper from my graduate  
1493 school on public good, and I think that what we are talking about

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1494 today in the internet is not a public good and I am going to write  
1495 a paper.

1496 I was up until 3:00 a.m., and you're going to be the first  
1497 copy to get a -- first person to get a copy of it.

1498 And two, Michael Chertoff has a new book out on privacy and  
1499 was talking about how the Chinese are using all of this data to  
1500 actually -- we think it's innocent.

1501 The Chinese are looking at who does these searches and  
1502 compiling them and grading them, and how people get jobs, et  
1503 cetera, and that's what's happening here.

1504 How do we know that this data, viewed alone, thousands of  
1505 data points collected on each of us, don't paint a picture other  
1506 than our, you know, our interests, curiosities, or preferences?

1507 But when they're combined together, they create a vivid  
1508 mosaic of both our online and offline who we are, and we don't  
1509 know who that's being shared with, and trust me, I don't trust  
1510 you to say it's not being shared with lots of people.

1511 It should raise concerns for consumers. We've got laws that  
1512 protect people at work, on the streets, and in their homes, and  
1513 with the lines continually blurring between online and offline.

1514 I think we have to address these issues and we need to be  
1515 doing a lot more to protect consumers and educate them. They think

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1516 there's nothing they can do and what does it matter -- it could  
1517 matter a lot.

1518 So, Dr. Beales and Ms. Glasser, what are the market  
1519 incentives for companies to not collect as much information as  
1520 possible? There are none, I would like to say that.

1521 Mr. Beales. I think -- I mean, collecting information has  
1522 some cost. It's usually not very big, and so the incentive tends  
1523 to be to collect more of it, and we'll see whether it is good  
1524 for something.

1525 There's an incentive not to collect, I think, information  
1526 -- that people are going to be reluctant to give you. I mean,  
1527 if you do survey research you always ask questions about income  
1528 at the end because a lot of people will stop answering question  
1529 when you ask that question and you don't want to lose the data.  
1530 There's not a lot of incentive.

1531 Ms. Glasser.

1532 Ms. Glasser. Sure. I think that there is definitely a lot  
1533 of -- a lot of reasons why companies would want to limit the data  
1534 that they're collecting, first of all, for legal reasons, right.

1535 I mean it depends on which sector you're in and, as we all know,  
1536 there are different sectoral logs here in the U.S. that protect  
1537 different types of information, particularly CAPA.

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1538           Now, I don't want to collect personally identifiable  
1539 information by children, which includes cookies and personal  
1540 identifiers.

1541           Same thing goes for health care or finance. I, as a company,  
1542 have a vested interest to limit the data on collecting for several  
1543 reasons.

1544           I don't want to risk a lawsuit. I don't want to risk  
1545 enforcement by the FTC, not even from a legal perspective -- of  
1546 course, that's terrible, but -- I mean, depending on whose side  
1547 you are, but also because I don't want the press and I don't want  
1548 people to know that I got caught doing something I shouldn't have  
1549 been doing.

1550           I think the other reason is, if I am collecting all of this  
1551 data that I don't necessarily need, I run the risk of collecting  
1552 bad data, and when I am collecting bad data and it comes to be  
1553 found out that it's bad data, then I have to go and purge all  
1554 of my data that might be connected to that bad data and that comes  
1555 at a tremendous cost to my company, literally, in money what it  
1556 costs to have engineers and people go through the systems and  
1557 do that. It also comes at a reputational cost as well and it  
1558 could slow down business because we have to now remove this entire  
1559 data set.

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1560           So for me and for our company, there's, clearly, a vested  
1561 interest to collect only what's needed.

1562           Mrs. Dingell. So I am almost out of time. So I am going  
1563 to do more questions for the record. But I will give you all  
1564 another example.

1565           I was prepping for a committee hearing. I stay up nights.  
1566 They call me Dr. Google. But was doing opioid research and by  
1567 the next morning was getting drug rehabilitation centers to check  
1568 myself into, and I didn't want anybody to think that I was a drug  
1569 user.

1570           But that's the kind of data that's being collected and then  
1571 a potential employer can buy that from somebody. People don't  
1572 think about it. I hope we can get them to.

1573           Thank you.

1574           Mr. Latta. The gentlelady's time has expired and the chair  
1575 now recognizes the gentleman from Kentucky for five minutes.

1576           Mr. Guthrie. Thanks a lot, and thanks for being here. And  
1577 this is serious and really trying to figure out where we draw  
1578 the line in public policy in this.

1579           I've said before that, you know, I am from Kentucky. I love  
1580 college basketball. The most frustrating thing is every four  
1581 minutes you get a TV time out.

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1582           But I get to watch it for free because I got to watch the  
1583 ad. And so -- and we are talking about free content. I think  
1584 people Mr. Brookman said people don't want to trade free content  
1585 for the violation of privacy.

1586           And what will be interesting in some of these apps would  
1587 have a subscription so you can subscribe and you get no ads  
1588 whatsoever and see what people choose. That would be interesting  
1589 to see where people move forward with that.

1590           But and I was in Ms. Schakowsky's district trying to figure  
1591 out how to get around Monday -- trying to get around traffic to  
1592 get from Sheridan Road to Lake Shore Drive.

1593           And the app I was using popped up an ad right when I needed  
1594 to make a critical turn. So that was -- so there's a difference  
1595 in frustrating -- but I was in your wonderful district. Might  
1596 ever trying to get me lost so I would stay in Chicago.

1597           Great city, by the way. And so we are trying to figure out  
1598 what's, like, just nuisance and stuff you have to fool with and  
1599 pop-ups and then really what gets into what some of the things  
1600 that Mr. Brookman has talked about and where we need to draw a  
1601 line.

1602           So just kind of the process of this. So, Ms. Glasser, first,  
1603 so how do the -- these target audiences are created by additional

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1604 ad companies.

1605 I mean, just kind of how is that -- I think we've kind of  
1606 gotten into it. They look at all the different ways that you  
1607 move forward. Can you kind of describe how a target audience  
1608 from a digital ad company is created for -- generically for  
1609 somebody who's wanting to create an audience?

1610 Ms. Glasser. Sure, I would be happy to.

1611 So, basically, what happens is we talk about intra space  
1612 advertising. Typically, we'll used intra space advertising to  
1613 build these profiles and target audiences and what we do then  
1614 is we actually will see what websites you have gone to over the  
1615 course of time.

1616 So maybe one day you're visiting MapQuest to get directions.  
1617 Another day you're on a gardening website. Then you're on the  
1618 New York Times and then you're looking to buy dog food, and  
1619 algorithmically and using modelling and science they are able  
1620 to sort of piece these things together and, you know, put you  
1621 in a certain age range -- say, you're male, you live in Kentucky  
1622 and you have an interest in gardening and dogs. Simple enough,  
1623 right?

1624 That's basically an interest category. We then provide that  
1625 data to other partners for them to target the specific audiences

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1626 but we'll use the data collected over different websites over  
1627 time to build up these profiles and to get a sense of the different  
1628 interests so that we can build these --

1629 Mr. Guthrie. And then you build up ads that I want to see.  
1630 That's the kind of the things instead of generic, like, when  
1631 I do the basketball whatever comes on I got to watch but ads I  
1632 want to see.

1633 So I don't have an issue with that but just trying to figure  
1634 out where we draw the line.

1635 So, Professor Beales, you talk about or it's been suggested  
1636 that online advertising market can operate like an financial  
1637 exchange where people bid on the ads and people -- I heard you  
1638 talk about that earlier today.

1639 How does that work? I mean, how does that kind of -- I didn't  
1640 realize that happened.

1641 Mr. Beales. Yes, there's an --

1642 Mr. Guthrie. Usually, like here's a group of dog lovers  
1643 from Kentucky so here's an ad that -- and so somebody will bid  
1644 on to get the ad --

1645 Mr. Beales. Well, you go to a website and the website will  
1646 say here's an ad -- here's the limited information that website  
1647 has, other than you're on that website. That may be all it knows

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1648 but it may be part of the network that knows something more.

1649 It passes that information to the ad exchange, which passes  
1650 it on to potential bidders, which are typically advertisers or  
1651 advertising agencies who have other information about you.

1652 Mr. Guthrie. Well, I will go to the -- going to a website  
1653 and boom, all this starts taking place instantaneously?

1654 Mr. Beales. Yes. Absolutely. Absolutely.

1655 There's a fascinating video that I think is 70 milliseconds  
1656 or something like that, which is about how long it takes to  
1657 actually serve the ad.

1658 Different advertisers bid. You know, I've got this great  
1659 dog food that I know you're really going to like so I will bid  
1660 a lot for your exposure. I win the auction, and the you get the  
1661 dog food ad.

1662 But there may be dozens and dozens of advertisers that bid  
1663 for that particular availability, each of who has a little bit  
1664 information about what -- about you, about what you might be  
1665 interested in, and the one who thinks you're most valuable is  
1666 the one --

1667 Mr. Guthrie. And, obviously, the more information I have  
1668 the more valuable I become to that -- whoever's bidding,  
1669 obviously. The more they know my likes, the more they're going

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1670 to bid on what I -- and so therefore, to get me on somebody's  
1671 website they're going to provide better content.

1672 So I will use their -- so they kind of -- it works that way,  
1673 but it just gets into the -- but they have to have so much  
1674 information on you so that -- are there things that you think  
1675 need to be protected in that or people just need to know, going  
1676 in, and that it's an open process?

1677 Mr. Beales. Well, I think it's a more going in -- a known  
1678 going in and I think it's more think about --

1679 Mr. Guthrie. The thing is if everybody's a good actor we  
1680 are -- I mean, the problem is the bad actor. If everybody's a  
1681 good actor, then it makes me more valuable to that advertising.

1682

1683 It makes somebody want me on their website. They're going  
1684 to provide better content that I will then enjoy using. That's  
1685 why I go there. And so it all works. But how do you protect against  
1686 the bad actors in that?

1687 Mr. Beales. I think you got to think about what I means  
1688 to be a bad actor and then try to restrict that particular conduct.

1689 It's not that -- it's not that a lot of people know something  
1690 about you from your various online behavior.

1691 It's what bad do we think might happen. I mean,

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1692 Congresswoman Dingell's example of what China's doing -- I mean,  
1693 the problem there is the government has got that data, and to  
1694 the extent that that's a problem, that's a problem we can address  
1695 directly by making it harder for the government to get that data.

1696 But it's what are -- and I think we need to ask what are  
1697 the bad actors doing with that information that could be harmful,  
1698 because we need to try to address the bad things that could happen  
1699 to consumers.

1700 But it's not the information collection that itself is the  
1701 bad thing. The bad thing is what somebody does with that.

1702 Mr. Guthrie. Okay. Thanks. I am out of time. I yield  
1703 back.

1704 Mr. Latta. The gentleman's time has expired and the chair  
1705 now recognizes the gentleman from California for five minutes.

1706 Mr. Cardenas. Thank you, Mr. Chairman, also Ranking Member  
1707 Schakowsky for having this hearing, and I would like to thank  
1708 the panellists for answering our questions and helping us make  
1709 sense of all of this, and there's a lot of all of this involved  
1710 here. It's very, very new to the human psyche and the human  
1711 element.

1712 You know, this is on the heels of the Facebook scandal and  
1713 the hearings that we've had here. But at the same time, I think

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1714 that it's important to note that that's just the tip of the  
1715 iceberg.

1716           There's a lot going on out there and a lot that we don't  
1717 hear about, and I think that Mrs. Dingell brought up some good  
1718 points about just getting online and all of a sudden the next  
1719 day, you know, you get certain pop-ups and like she said, who  
1720 knows in the future if people are going to use that against someone  
1721 saying, hey, are you really an opioid addict because we got some  
1722 information on you and you spent a heck of a lot of time looking  
1723 at this stuff.

1724           But then again, she's just doing research, but at the same  
1725 time, people are going to use that data as they wish, and what  
1726 is unfortunate is that we have a lot of small businesses out there  
1727 who are benefiting from this, who are able to compete now in an  
1728 environment like never before with larger businesses, that are  
1729 creating jobs.

1730           In my district alone, for example, it's come to my attention  
1731 that thousands of jobs have been created just in my district alone  
1732 because of this new technology and these new efforts.

1733           And when it comes to the economic boon as well, there is  
1734 economic pluses. When you talk about thousands of jobs, you're  
1735 talking about hundreds of millions of dollars of money that's

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1736 coming into my community.

1737           So there is positive to all this as well. But where is the  
1738 balance? And in that comes my first question is what data is  
1739 collected from consumers and also what kind of data do companies  
1740 pay for the most and what information about consumers is most  
1741 valuable to them.

1742           If anybody can give me some perspective on that.

1743           Ms. Glasser. I would be happy to try.

1744           Mr. Cardenas. Sure. Thank you.

1745           Ms. Glasser. I think the answer is really it depends. I  
1746 think it depends on what your end goal is as far as what data  
1747 will be most valuable.

1748           I think it also depends on who you're trying to reach and  
1749 what type of company you are. Again, I think all of us at least  
1750 up here -- I can't speak for everyone else -- are true believers  
1751 in data minimization, transparency, and principles along those  
1752 lines.

1753           So as far as data minimization you only collect what you  
1754 need and that would not typically fall into the area of egregious  
1755 practices.

1756           Mr. Cardenas. Anybody else?

1757           Mr. Zaneis. Yes, I would be happy to answer that, and it

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1758 relates very well to Congressman Guthrie's question just a second  
1759 ago.

1760 Obviously, some of your web browsing behavior is going to  
1761 be collected and so if you go to another website and we are talking  
1762 about the real-time bidding, somebody then thinks since you want  
1763 to buy dog food may think that you're worth, you know, 20 cents  
1764 for that impression -- somebody then knows that you just went  
1765 to a -- to autodealer.com or something like that -- may think  
1766 you're worth \$20. And so that kind of information is very  
1767 valuable.

1768 But I also want to make sure we don't lose focus and get  
1769 too myopic just on advertising because this kind of information  
1770 is collected for all sorts of purposes.

1771 At TAG, we collect from our member companies' IP addresses  
1772 and we use them to fight fraud. We have something called a data  
1773 center IP list and it has 40 million IP addressed that generate  
1774 fraudulent nonhuman traffic.

1775 This is incredibly valuable tool to fight criminal activity  
1776 globally and it only comes from companies. So if companies are  
1777 restricted from collecting that kind of information, perhaps  
1778 under GDR-like restrictions or the California privacy initiative,  
1779 that's going to harm law enforcement and industry's efforts to

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1780 fight crime.

1781 Mr. Cardenas. Yes, go ahead.

1782 Mr. Brookman. Yes. So the question of, you know, what  
1783 information is collected, I mean, I think my main thing would  
1784 be that more and more information is collected from more and more  
1785 devices in confusing and often in transparent ways.

1786 So if I am with Congressman Guthrie watching a basketball  
1787 game I think I am likely to expect some ads targeted to the content  
1788 to what I am watching, right. I am going to see ads for trucks  
1789 and for beer, and that's contextual and that's fine. I think  
1790 people appreciate that.

1791 What I might not expect is then for my ISP to then tie what  
1792 I do on a connected computer, right, and maybe I am looking for  
1793 wedding rings and suddenly I am watching the game and a big ad  
1794 for wedding rings comes up based on what I did on a different  
1795 device and watching the game with my girlfriend.

1796 This is the thing I think people are confused by and it's  
1797 increasingly capable, rights. I mean, TV ads used to be not  
1798 targeted to individuals. Increasingly, they can do that, right,  
1799 and tie it to your behavior online or they can tie it to the email  
1800 address that you give them, and that's the sort of thing that  
1801 I think people -- we are all kind of grappling with.

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1802           You know, how do you put in place, you know, because it is  
1803 valuable, right. I mean, yeah, I suddenly need to pay -- spend  
1804 a lot of money on the diamond ring right now.

1805           But I think people still wish they had autonomy and control  
1806 over the things they own.

1807           Mr. Cardenas. Thank you. My time has expired.

1808           I yield back. Thank you, Mr. Chairman.

1809           Mr. Latta. I thank you very much. The gentleman's time  
1810 has expired.

1811           The chair now recognizes the gentleman from Indiana for five  
1812 minutes.

1813           Mr. Loeb sack. Thank you, Mr. Chairman.

1814           I guess this could be one of those things, be careful what  
1815 you wish for.

1816           I remember 25, 30 years ago, you know, people thought this  
1817 would be great. And it is. It really is. It's Transformational  
1818 to our world, but also there some down sides. It's a serious  
1819 issue.

1820           And Mr. Zaneis, you point out it's not only about ads, it's  
1821 about national security. It's about all kinds of law  
1822 enforcement. And so that's why we have to really strike a very  
1823 good balance here about what we do regulatory wise or

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1824 legislatively as it relates to this issue.

1825 I also think do you -- does any -- do we think that there's  
1826 a generational difference in concern over this? Because I have  
1827 some sons who are in their 20s and my son has an Alexa.

1828 You know, I went to this apartment and he had it. I am,  
1829 like, don't you -- they just don't seem to be concerned about  
1830 it. Do you think that's a problem? Do we need to -- do we need  
1831 more education maybe of people who are now -- have never grown  
1832 up with the internet?

1833 I mean, anyone -- Mr. Zaneis -- about why this is actually  
1834 a legitimate serious question that it's just not about -- just  
1835 not about turning on some jazz music, which he did, which was  
1836 really cool.

1837 You see what I am saying?

1838 Mr. Zaneis. Absolutely, and I will say that there are --  
1839 of course, there are generational differences. Without a doubt,  
1840 folks that are, you know, digital natives and folks are not.

1841 I will say this. Everybody cares about privacy, and  
1842 sometimes you hear folks say, oh, young people don't care about  
1843 privacy.

1844 It's not that they don't care about privacy. It's that they  
1845 understand the trade-off a little bit better in order to get

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1846 services and they are more willing to trade off certain privacy  
1847 and data in order to receive the services that they are sort of  
1848 entrenched in.

1849 So there are studies. I will just say that I am sure Mr.  
1850 Brookman has some great numbers. Anybody can show you a study  
1851 that says either 90 plus percent of people are really concerned  
1852 about privacy or, you know, 90 percent of people love the digital  
1853 services they get and are willing to trade off.

1854 Mr. Loeb sack. Sure. I understand.

1855 Briefly, Mr. Brookman, because I've got several questions.

1856 Mr. Brookman. I think -- I think young people actually do  
1857 probably care about privacy just as much. They tend to be a little  
1858 more tech savvy so they --

1859 Mr. Loeb sack. Do you think they're just resigned to the  
1860 fact that it's not going to happen?

1861 Mr. Brookman. I actually don't because, like, for example,  
1862 you think about who uses ad blockers, right. It tends to be  
1863 millennials and younger people.

1864 Mr. Loeb sack. Okay.

1865 Mr. Brookman. They have the ability -- they feel they have  
1866 more control to take back their privacy, I think.

1867 Mr. Loeb sack. This is a general question. You know, so

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1868 I don't generally quote from the media but there was media person  
1869 here in town that walked around town with a couple of smart phones.

1870 One phone had all the things that was, like, on airplane  
1871 mode, all the wifi and Bluetooth was off, and the other phone  
1872 was hard turned off. I mean, it wasn't just -- you know, they  
1873 had it completely turned off.

1874 Walked all around to different locations around D.C. -- this  
1875 is actually very fascinating -- then went back to studio and then  
1876 turned these phones back on, and had a tech person be able to  
1877 monitor what happened once they turned them back on.

1878 And all this meta data from everywhere they had been on both  
1879 devices, by the way, even the one that was hard turned off, was  
1880 -- showed up on the screen and was jettisoned out to the world.

1881 And so location -- I think the location stuff is really  
1882 important, because they had stopped at a park bench by the  
1883 cathedral and went to a Starbuck's and all that, and all that  
1884 was known.

1885 Do we know -- Consumer Reports would maybe answer this --  
1886 do we know -- was this a media -- was this just the media that  
1887 did it or do we know that phones do this?

1888 Because it becomes a hardware issue, right. It's not a --  
1889 this is a national security thing, because some of our -- we have,

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1890 you know, hardware that's been imported from all around the world  
1891 that's in some of our devices and our devices are made in other  
1892 parts of the world.

1893 I mean, do we know that this can happen?

1894 Mr. Brookman. So I've seen reports that Android phones,  
1895 when location services are turned on, do collected a lot of  
1896 information which I would personally find surprising -- collect  
1897 barometric information, seem to know what floor you're on and  
1898 they guess whether you're on a train or on a bike or walking around  
1899 -- in ways that I think that a lot of people would object to.

1900 I don't know that they do that when the phone is hard turned  
1901 off. I think that would be bad, if that were the case, because  
1902 it is an issue of security. Location information is very  
1903 sensitive.

1904 I get Google uses location for, like, really useful things  
1905 like Maps, which I use all the time, right, and I believe they  
1906 probably have some protections on the back end to anonymize it.

1907 But, I mean, as a user, like, how do you know, and it is  
1908 disturbing when you do find out the raw feed that does get  
1909 uploaded, I don't know if it is quite as extensive as what you're  
1910 talking about but it is extensive and surprising.

1911 Mr. Loeb sack. Yes. I mean, I just want to bring that point

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1912 up that, you know, we are talking about apps and websites and  
1913 everything. But for all the other reasons that Mr. Zaneis talked  
1914 about other than advertising, we have to be concerned, I think,  
1915 also about whether our hardware is that's in our devices and  
1916 computers.

1917 You know, we can turn everything -- they turned everything  
1918 off and it didn't matter. And whether that's true or not I don't  
1919 know because it was a media report, but it's concerning.

1920 I yield back.

1921 Mr. Latta. Thank you. The gentleman's time has expired  
1922 and yields back.

1923 The chair now recognizes the gentlelady from California for  
1924 five minutes.

1925 Mrs. Walters. Thank you, Mr. Chairman.

1926 Mr. Beales, this first question -- it's a three-part  
1927 question. It's actually for you.

1928 What steps can be taken to enhance competition in the market  
1929 for online advertising and what are some of the advantages and  
1930 disadvantages of the way the market and the ad tech works today?

1931 And are reports that Google and Facebook control 90 percent  
1932 of the market true?

1933 Mr. Beales. Let me start at the end. I don't really know

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1934 what the markets shares are but I don't think 90 percent is  
1935 remotely right.

1936 I would think it's more like 50 or 60 percent. But that's  
1937 a fairly well establishable number that is not hard to find out.

1938 I think we don't know the -- and one of the interesting  
1939 things about the online ecosystem is we don't know what's the  
1940 most efficient way to organize this and people are trying lots  
1941 of different things and it's changing on a very regular basis.

1942 I mean, the whole idea of ad exchanges is probably not 10  
1943 years old yet as a way to -- as a way to distribute this content,  
1944 and people are finding out the pros and cons of different  
1945 approaches and then trying alternatives because it's a very  
1946 innovative space and that is the engine of competition.

1947 What got Google and Facebook to where they are was better  
1948 mousetraps, if you will -- different mousetraps in each case --  
1949 and the competitive pressure in this market is in part from the  
1950 third-party providers that don't have sign-in but do get some  
1951 of the same information in indirect ways, and it's really  
1952 important to preserve that competition.

1953 Mrs. Walters. Okay. Ms. Glasser, as someone who went to  
1954 law school and studied privacy, do you believe that there's an  
1955 adequate understanding or amount of training on data privacy by

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1956 entrepreneurs, engineers, coders, and et cetera who build these  
1957 products?

1958 Ms. Glasser. I can really only speak from some of my  
1959 experience and what I've seen, and I don't think that there's  
1960 enough education.

1961 I am very fortunate where I kind of fell into privacy by  
1962 accident where I was a law student at night working full time  
1963 so I had to take what was available to me, and that was typically  
1964 the privacy stuff because I guess no one else was interested in  
1965 it.

1966 But it turned out to be quite fruitful for me so I am grateful.

1967 I've always said that I am a firm believer in education and even  
1968 if it's education about privacy or how to code or how computers  
1969 work, I think education on how the internet literacy period is  
1970 also extremely important, whether it comes to children,  
1971 advertising, you know, how to help elderly people recognize scams  
1972 or fraud.

1973 Absolutely, I don't think -- I don't think that we could  
1974 do ourselves wrong if we encourage more education in this field.

1975 Mrs. Walters. Okay. Thank you, and I yield back the  
1976 balance of my time.

1977 Mr. Latta. Thank you. The gentlelady yields back.

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1978           The chair now recognizes the gentleman from Florida for five  
1979 minutes.

1980           Mr. Bilirakis. Thank you, Mr. Chairman. I appreciate it.

1981           Professor Beales, you mentioned in your testimony that  
1982 advertising is particularly important to less advantaged groups,  
1983 particularly minorities and single parent households.

1984           I am also curious as to your perspective on the senior  
1985 population. How would regulation in the advertising space affect  
1986 these particular groups?

1987           Mr. Beales. Well, the -- what the academic research shows  
1988 about the impact of advertising is there are some people who are  
1989 better at either using information or have more time to use  
1990 information, and that's where those people who are good at  
1991 information and have the time use information that's available  
1992 from other sources and they're less dependent on advertising.

1993           The people who don't have those advantages need the  
1994 information in an easily digestible form and that's what  
1995 advertising does is it boils it down to a very simple proposition  
1996 of buy my serial, and I don't know where the elderly would fit  
1997 on that.

1998           On the one hand, they got a lot of market experience and  
1999 that would tend to mean they're not going to be all that dependent,

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2000 and on the other hand, they also have a lot of time in many cases  
2001 and can use other information sources in ways where they're less  
2002 dependent on advertising.

2003 I don't know of anybody that's looked at that question  
2004 specifically.

2005 Mr. Bilirakis. Okay. Fair enough.

2006 You talk about the importance of transparency in digital  
2007 advertising. This question is for Ms. Glasser. You talk about  
2008 the importance of digital -- importance of transparency in digital  
2009 advertising but suggest that a choice mechanism I snot always  
2010 required.

2011 Yet, one of the reasons we were holding this hearing is due  
2012 to our constituents' concerns and the need to raise awareness  
2013 about privacy.

2014 Do you believe that the FTC has the tools it needs to  
2015 effectively protect privacy and do you have suggestions for my  
2016 constituents to prevent websites from collecting information  
2017 about them?

2018 Again, personal information -- how do we protect personal  
2019 information? And then, Mr. Guthrie mentioned that particular  
2020 example but also Mrs. Dingell mentioned the example of the  
2021 opioids.

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2022 Give me another example of a bad thing that can happen. I  
2023 think our constituents need to know. So this question is for  
2024 Ms. Glasser, please.

2025 Ms. Glasser. I think -- that's correct. Not every instance  
2026 requires and opt out. So what I meant by that, for example, if  
2027 I own a website and I want to know how the behavior of users is  
2028 on my website specifically, I want to know what features of my  
2029 website users like to interact with.

2030 I like to know what content they like to interact with, and  
2031 this helps me build a better website. This helps me build a better  
2032 platform for users to come to.

2033 And I am not necessarily using this data for advertising  
2034 or marketing purposes. It's really to help me understand the  
2035 behavior of my business, essentially, and in those instances an  
2036 opt-out is not always required.

2037 However, I do think that transparency is absolutely key to  
2038 all of this, whether you -- whether you're using tracking pixels  
2039 for analytics or you're using it for more engaged advertising  
2040 and more engaged data collection.

2041 I think it's absolutely critical that these things are  
2042 explained to the end user and the consumer so that they do  
2043 understand, okay, I see a tracking pixel on this website, but

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2044 they're not using it for advertising -- it's being used for  
2045 analytics -- I don't have to worry. Or if it's being used for  
2046 advertising, I can expect to see the red shoes I am looking for  
2047 show up on the next website I go to.

2048 Only through our transparency can we even begin to expect  
2049 consumers to understand what's happening.

2050 Mr. Bilirakis. Again, link this back, for example, Mrs.  
2051 Dingell's situation with the opioids, doing her research -- and  
2052 I commend her for it, doing the research late at night because  
2053 I do it, too -- and then maybe years down the road they might  
2054 link her personal information to possibly being a drug addict  
2055 or what you.

2056 Is that the case? Can that happen?

2057 Ms. Glasser. I mean, anything is really possible, right.

2058 Mr. Bilirakis. Yes.

2059 Ms. Glasser. It absolutely can happen. But I think it's  
2060 also important to point out that within the industry -- and we've  
2061 talked a lot about responsible actors, legitimate companies, the  
2062 self-regulatory groups -- there are restrictions on using that  
2063 type of information for targeting and behavioral advertising.

2064 The NAI, for example, has very specific provisions on whether  
2065 you can use health-related data -- sensitive health-related data

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2066 about sensitive categories -- thing like drug abuse, drug  
2067 addiction, mental health issues, cancer, sexually transmitted  
2068 diseases, reproductive issues, all of those things are really  
2069 off limits unless you have opt-in consent, which I don't know  
2070 anybody who even actively goes after those types of segments just  
2071 because of the sensitivity of it.

2072           And I think when we put ourselves in our consumer shoes,  
2073 none of us want to be targeted with those types of ads either.

2074

2075           So, again, I think it comes back to some of the points that  
2076 Dr. Beales made and Mr. Brookman made about making sure that,  
2077 you know, we hold the bad actors accountable and we continue to  
2078 push these standards forward and we continue to try to enforce  
2079 these standards so that we are using the right type of data to  
2080 target the right type of advertising -- the right type of people.

2081           Mr. Bucshon. All right. Very good.

2082           Thank you, Mr. Chairman. Thanks for holding the hearing  
2083 as well.

2084           Mr. Latta. Well, thank you very much. The gentleman's time  
2085 has expired.

2086           And seeing that there are no other members here wishing to  
2087 ask questions, I again want to thank our panel for being here

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2088 today and presenting before us very, very informative.

2089 But before we do conclude, I would like to include the  
2090 following documents submitted for the record by unanimous  
2091 consent: two documents from Oxford BioChronometrics, two  
2092 documents from Interactive Advertising Bureau, a blog post from  
2093 MPAA, and pursuant to committee rules, I remind members that they  
2094 have 10 business days to submit additional questions for the  
2095 record. I ask that the witnesses submit their responses within  
2096 10 business days upon receipt of the questions.

2097 And without objection, the subcommittee will stand  
2098 adjourned.

2099 Thank you very much.

2100 [Whereupon, at 12:02 p.m., the committee was adjourned.]