TESTIMONY

SENATE COMMITTEE ON THE JUDICIARY:
HEARING ON UNDERSTANDING THE DIGITAL ADVERTISING ECOSYSTEM AND THE IMPACT OF DATA PRIVACY AND COMPETITION

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MAY 22, 2019
Executive Summary

This committee hearing is focused on the digital advertising ecosystem and the impact of data privacy and competition policy. My testimony will focus on the interaction between privacy, competition, and innovation. It will emphasize four points:

- **There are often trade-offs between privacy regulation and innovation.** Data is a key input into innovation, especially for dynamic sectors in the economy. However, privacy regulation restricts the use of data and may reduce the dynamism of these sectors.

- **There are often trade-offs between privacy regulation and competition.** Large established companies have the resources to comply with regulation. In addition, they already have access to the data needed to improve their products. This means that regulation can disadvantage startups and smaller companies.

- **Consumers value privacy.** A growing body of research indicates that consumers value privacy in a variety of contexts. Therefore, costs related to reduced innovation and competition should be weighed against real benefits.

- **It is possible to mitigate many of the negative consequences of privacy regulations** on both competition and innovation. For example, data portability can help startups and smaller firms innovate and compete, and regulatory consistency can reduce the resources needed to ensure compliance.
Chairman Graham, Ranking Member Feinstein, and Members of the Committee: I am honored to appear before you today to have a discussion on “Understanding the Digital Advertising Ecosystem and the Impact of Data Privacy and Competition Policy.”

My name is Avi Goldfarb, and I am both Ellison Professor of Marketing and the Rotman Chair in Artificial Intelligence and Healthcare at the University of Toronto.

1 Privacy is Not Free

Technology reduces the cost of collecting, storing, and analyzing data. This has enabled substantial innovation in many sectors of the economy including healthcare, retail, financial services, and digital marketing. Subsequently, the increased ability to analyze large quantities of data has contributed to the recent advances in artificial intelligence.

At the same time, the increased use of data has also led to privacy concerns by individuals around the world. Low costs mean that every American’s data is sufficiently valuable to be worth collecting. This has induced calls by consumers, advocates, and politicians for privacy regulations that restrict companies from collecting, analyzing, and exchanging data.

1.1 Privacy and Innovation

If data cannot be collected then it cannot harm the privacy of the individual. At the same time, companies collect data for a reason. It helps them build better products for their customers, whether end consumers or advertisers. While it is possible that better privacy protections can generate consumer trust and lead to more useful and reliable data, the evidence so far in the U.S. and Europe indicates a trade-off between privacy and the use of data.

MIT professor Catherine Tucker and I found that early European privacy regulation (the European Union’s e-Privacy Directive EC/2002/58) was associated with a 65% decrease in the effectiveness of online advertising. In other words, the regulation appears to have improved privacy protection as advertisers likely used less data to target ads. As a consequence, it is probable that the regulation hurt the European advertising-supported software industry—an industry that has been particularly innovative in the U.S. and China over the past decade. A number of studies

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have found similar effects for privacy regulations in advertising, healthcare, and financial services.²

### 1.2 Privacy and Competition

Privacy regulation has the potential to affect new and small companies the most. Large established companies have the resources to comply with regulation. They can afford the lawyers and engineers necessary to be compliant in ways that smaller companies and startups cannot.

In addition, large established companies already have access to both the data needed to improve their products and a guaranteed source of new data provided by their customers. The largest technology companies offer many different types of products and can pool data from those products to innovate and better-serve their customers.³ In contrast, startups and smaller companies—whether in the technology industry or not—disproportionately benefit from accessing the data generated by others. For example, several small companies might be able to pool data together in order to have a similar scope of data to their larger competitors. Therefore, regulations that restrict the flow of data across companies place a bigger burden on small companies than large companies. Of course, addressing the data advantage of larger companies by restricting data flows within the large companies will constrain the ability of those companies to innovate. Early evidence of the consequences of Europe’s GDPR does suggest that the restrictions on data flows restrictions in the GDPR led to a short-term reduction in the financing of startups.⁴

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2 Consumers Care about Privacy

The above discussion suggests that privacy is not free. Nevertheless, it is valuable. A growing body of evidence suggests that Americans care deeply about privacy. This is evident from consumer surveys in which consumers state that privacy is important, as well as evidence from the actions of consumers who seek out privacy. For example, consumers react negatively to overly intrusive ads, they increasingly use ad blocking software, and they have become less likely to answer survey questions.

Some regulations can provide substantial value in terms of increased consumer privacy, while others will not. For instance, privacy is particularly important when data could cause negative long-term harm both for the person providing the data and for others. Genetic information about a person’s likelihood to suffer from a disease is a good example. Such information could affect future employment and insurance prospects, as well as that person’s parents, siblings, and children for decades. Even online information about searches for genetically inheritable diseases can cause substantial long-term harm. In contrast, information that I searched for a *Harry Potter* book is unlikely to have long-term consequences beyond seeing a large number of ads for *Harry Potter* merchandise for a few weeks.

Regulation that focuses on a fair distribution of the profits that companies earn from consumer data, rather than on direct or indirect harm to consumers from that data, is likely to provide relatively small economic benefits. Recent research estimates that each American consumer that opts out of targeted advertising costs advertising platforms $8.58. Aggregated across millions of consumers, this suggests real value to companies from targeted advertising. At the same time, for each individual consumer, being paid for providing data is unlikely to make much difference to their overall income.

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5 For a review, see Acquisti, Taylor, and Wagman. 2016. The Economics of Privacy. *Journal of Economic Literature* 54(2), 442-492.
3 Regulatory Costs can be Mitigated

The above discussion points to an important policy trade-off. Privacy is valuable, but so are innovation and competition. It is important to view any new privacy regulations through the lens of their impact on innovation and competition in the technology industry.

One way to reduce the chances of privacy regulation hurting innovative small firms is to ensure an efficient form of data portability. If privacy regulation restricts the pooling of data across firms, then it is difficult for startups to compete. Giving consumers the ability to take data from one platform and provide it to a startup will help mitigate the negative effects. Data portability does this by providing a path through which smaller companies could access the variety of consumer data needed for many types of innovation in this industry.

In addition, regulatory consistency is important. Regulatory consistency does not mean that all places need to have the same level of privacy protection. Instead, by consistency I mean that a company that is compliant in the strictest regime would also be compliant in other jurisdictions. That is to say, if regulation is different across jurisdictions and changes frequently over time, only the best-resourced companies will be able to comply. Regulatory consistency, both within the U.S. and internationally, makes it easier for startups to grow. Furthermore, large and small companies can be confident that new products will not be banned.

4 Conclusion

Privacy is not free, but it is valuable. The most effective privacy regulation will protect consumer privacy in the areas at most risk, while mitigating any negative impact on innovation and competition.

Thank you for the opportunity to discuss this research and I look forward to answering your questions.