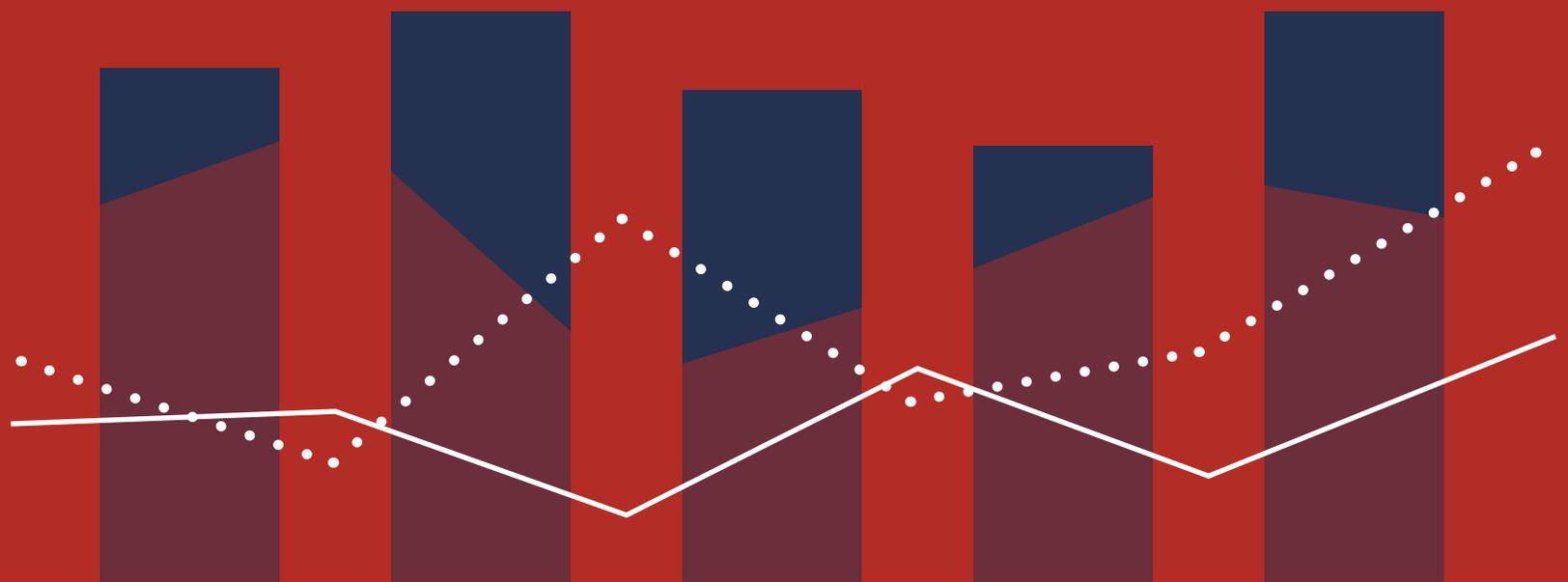


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The Marketer at the Privacy Table

Sachin Gupta, Panos Moutafis and Matthew J. Schneider | 3.17.2022

Many executives and corporate administrators believe their marketing department should have a limited role when it comes to customer privacy. They believe the department should only manage customers' privacy perceptions. Actual data security decisions should be left to the information technology department, and privacy decisions should be made by legal.

However, marketing professionals bring practical knowledge and techniques to the data privacy discussion that can effectively limit the consumer information collected without impacting its usefulness.

The Exclusion Error

Excluding marketers from data gathering decisions can result in firms collecting too much information and increasing customer exposure risks. Consider the [2020 data breach at insurance software provider Vertafore](#). The information leak included license numbers, names, addresses, birthdates, and vehicle registration histories of about 27.7 million drivers in Texas. Had marketers been at the decision table from the beginning, Vertafore may have known that its insurance company clients did not need drivers' personal details to model risk and premiums.

Marketers can also provide firms valuable insights for decisions about protecting privacy after data have been gathered. For example, ACNielsen averages retail sales and prices across stores within markets, California legislators require household

energy usage data to be grouped by at least 15 households, and Google aggregates its sponsored search data at the daily level—all partly for privacy reasons. But the aggregation can result in biased marketing activity estimates (Christen et al. 1997) and limit the companies' targeting capabilities.

Perception Good, Protection Better

Marketing researchers have offered insights into the effects of improved perceptions of privacy as well as ways to strengthen privacy protection (Table 1). They find that when firms improve perceptions of privacy, consumers express greater willingness to share data, trust their brand, and respond to marketing activities. To improve protection, firms can alter their data processing protocols to increase privacy while preserving insights. Marketing professionals can apply the techniques during data gathering, after data gathering, or both.

Table 1: Selected marketing-focused data privacy research

Goal	<i>After Data Gathering</i>	<i>During Data Gathering</i>
<i>Perception</i>	1 <u>Tucker 2014;</u> <u>Martin, Borah, and</u> <u>Palmatier 2018</u>	2 <u>De Jong, Fox, and</u> <u>Steenkamp 2015</u>
<i>Protection</i>	3 <u>Zhou, Lu, and Ding 2020;</u> <u>Schneider et al. 2018</u>	4 <u>De Jong, Fox, and</u> <u>Steenkamp 2015; Gupta,</u> <u>Moutafis, and Schneider</u> <u>2021</u>

Tucker (2014) found that Facebook users were nearly twice as likely to react positively to personalized advertising after the platform gave them increased control over their personal information (i.e., enhanced perceived privacy). Martin, Borah, and Palmatier (2018) found that firms providing customers data transparency and control were not punished as severely upon breach as were less transparent firms.

Extensive literature (e.g., De Jong, Fox, and Steenkamp 2015) has offered randomized survey response techniques to elicit truthful answers, especially to sensitive questions. The methods influence respondents' beliefs about the privacy of their own answers and increase data protection. Other research has explored approaches to alter data statistically after collection to reduce the likelihood of disclosing personal information while preserving insights. Applications include facial images (Zhou, Lu, and Ding 2020) and point-of-sale data (Schneider et al. 2018).

Finally, Gupta, Moutafis, and Schneider (2021) highlight the privacy benefits of edge computing, whereby firms do not

transmit or retain sensitive information, minimizing data risks.

A Theoretical Take

Firms often alter customer data to increase privacy. Theorists consider “differential privacy” the gold standard. Analysts create differentially private data by introducing inaccuracies to limit the likelihood of disclosing an individual's identity. But currently available differential privacy approaches can result in useless data for many practical marketing applications.

A new set of methods, such as shuffling algorithms and generative adversarial networks, allow data protectors to model marketers' information needs explicitly in the protection process. Specifically, the models' loss function embodies the desired insights and ensures that the randomly generated synthetic data do not lack valuable information. Schneider et al. (2018) demonstrate how analysts can preserve estimated price and promotion elasticity precision in a market response model applied to point-of-sale data. Zhou, Lu, and Ding (2020) show how firms can preserve useful consumer facial cues

while transforming full facial images into contours.

Summary

Firms must consider how their marketers will use data before they set their privacy policy to maximize the data's usefulness. And marketing effectiveness estimates are less biased when firms tailor their data protection to their marketers' needs.

Brands benefit from improved customer privacy perceptions, and many make an intrinsic promise that their customers' data are private. However, customers must not only perceive that their data are safe; their data must actually be safe.

Marketing scholars and practitioners must therefore focus on helping firms protect their data without limiting usefulness.

Rather than be excluded from the privacy table, marketers should spearhead data protection and privacy efforts. Marketers not responsible for data protection might collect too much information, and data privacy decisions made without marketing might compromise valuable insights. Furthermore, marketers make their firms' privacy promises to consumers and manage public relations after data breaches. Therefore, they are intrinsically motivated to uphold the brand promise.

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