Inequalities in Payment Innovation Adoption

Daniel R. Horne, Providence College
Patricia A. Norberg, Quinnipiac University

In general, it is believed that innovations accrue a net benefit to society. Yet, at a disaggregated level, some segments in society may experience more of the benefits (e.g., early adopters) while other segments either incur the relative increase in costs of legacy systems or forego the benefits associated with use of the innovation (e.g., late adopters and laggards). Academic research tends to focus mainly on the early-stage adopters, without whom it is assumed new products and services would not progress to the higher levels of volume associated with positive returns on the innovation investment (Fisher & Price 1992). Non-adopters, on the other hand, have rarely been studied, which Rogers (2003) attributes to a “pro-innovation bias” amongst researchers. While new products tend to become more affordable as adoption takes place, we must consider products that, due to technological underpinnings, might exacerbate problems for certain vulnerable populations already associated with the lack of technological access.

This paper explores the adoption of technologies by which consumers pay for goods and services. A payment option is a store of value that parties mutually agree will complete the settlement of a claim or transaction (Angel & McCabe 2014). These take the form of digital or electronic products such as ACH payments, credit and debit cards, and online payments. The movement toward a “cashless” society (Arvidsson, 2019) will necessarily limit the payment choices consumers have as reduced use of cash increases the costs of handling and providing access, which then further puts downward pressure on usage (Engert et al., 2018). Those without access to electronic means of payments will bear these increased costs.

The “digital divide” generally indicates the distinction between those that use information technology and those who do not. van Dijk (van Dijk 1999; van Dijk & Hacker 2003) outlines the issue as a function of access; not just the physical access to the technology and the opportunity to use it, but the access to the necessary skills for usage. Underlying these access issues are several demographic factors, particularly those related to race (Fairlie, 2004), age (Niehaves & Plattfaut 2014), income (Martin & Robinson 2007), and level of education (van Deursen et al., 2015).

Using data from the 2019 Survey of Consumer Payments Choice (n=3372) (Federal Reserve Bank of Atlanta, 2020), we provide initial evidence that vulnerable groups might lack the access and/or skills to take advantage of digital payment technologies. Initial evidence shows that low income, less educated minority Americans do not adopt electronic payments at the same rate as those Americans who have more resources and opportunities available to them. While it is hoped that increased volume in these alternatives reduces costs, the cost differential will be borne by those already paying a “poverty premium” (Finney & Davies, 2020) and further exacerbate economic inequality. To mitigate the existing differences, policy recommendations should focus on facilitating access and increasing communication/education for specific population segments identified above.

References


1 Daniel R. Horne (dhorne@providence.edu), Professor, Marketing
2 Patricia A. Norberg (patricia.norberg@quinnipiac.edu), Associate Professor, Marketing


