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## Respect for context as a benchmark for privacy online: what it is and isn't

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### Introduction

In February 2012, the Obama White House unveiled a Privacy Bill of Rights, embedded in a comprehensive report, *Consumer Data Privacy in a Networked World: A Framework for Protecting Privacy and Promoting Innovation in the Global Digital Economy* (2012: 9). In addition to the Bill of Rights, the Report's Framework for Protecting Privacy laid out a multi-stakeholder process, articulated foundations for effective enforcement, pledged to draft new privacy legislation, and announced an intention to increase interoperability with international efforts (Civil 2012). The White House report was but one among several governmental studies and reports in the US and elsewhere (e.g. Federal Trade Commission 2012; World Economic Forum 2012) responding to increasingly vocal objections to information practices above and below the radar that were so out of control that in 2010 the *Wall Street Journal*, sentinel of business and commercial interests, launched a landmark investigative series *What They Know*, which doggedly revealed to readers remarkable and chilling activities ranging from ubiquitous online monitoring to license plate tracking and much in between (Angwin and Valentino-Devries 2012; Valentino-Devries and Singer-Vine 2012). The dockets of public interest advocacy organizations were filled with privacy challenges. Courts and regulatory bodies were awash with cases of overreaching standard practices, embarrassing gaffes, and technical loopholes that enabled surreptitious surveillance and the capture, aggregation, use, and dispersion of personal information.

As awareness spread, so did annoyance, outrage, and alarm among ordinary, unsophisticated users of digital and information technologies as they learned of practices such as Web-tracking, behavioral advertising,

surveillance of mobile communications, information capture by mobile apps (including location), capture of latent and revealed social network activity, and big data.<sup>1</sup> Most salient to individuals are practices of familiar actors, with which they are directly acquainted, such as Facebook, Google, Amazon, Yelp, and Apple. More informed critics point to information brokers, back-end information services, ad networks, voter profilers, “smart grids,” surveillance cameras, and biometric ID systems, to name just a few, which relentlessly monitor and shape lives in ways neither perceptible nor remotely comprehensible to the public of ordinary citizens.

Acknowledging the problem, governmental bodies in the USA have kept citizens’ privacy on the active agenda, pursuing cases against specific activities (e.g. *Google Inc. v. Joffe et al.* (2014); *Federal Trade Commission v. Wyndham Worldwide Corporation, et al.* (2014);<sup>2</sup> *Re: Netflix Privacy Litigation* (2012)). They have conducted studies, public hearings, and multi-stakeholder deliberations on specific practices, such as commercial uses of facial recognition systems, surreptitious uses of personal information by mobile apps, and applications of big data (US National Telecommunications and Information Administration 2013a). Such initiatives are also underway in Europe in governmental as well as nongovernmental sectors, including, for example, the World Economic Forum, the Organisation for Economic Co-operation (OECD), and the European Commission (World Economic Forum 2012; European Union 2013).

This chapter focuses on the White House Consumer Privacy Bill of Rights and within it, the Principle of Respect for Context. It argues that how this Principle is interpreted is critical to the success of the Privacy Bill of Rights as an engine of change – whether it succeeds in its mission of change or devolves to business as usual.

### *White House Report and respect for context*

Until the Department of Commerce took up its study of privacy, a prelude to the 2012 White House Report, the Federal Trade Commission (FTC) had been the key government agency spearheading important

<sup>1</sup> Anxiety over the digital age, and more specifically, big data, is a major theme in mainstream tech and business journalism as of 2013. For more information, see *The New York Times*’ special section “Big Data 2013.” Available at <http://bits.blogs.nytimes.com/category/big-data-2013/>.

<sup>2</sup> Accessed from [www2.bloomberglaw.com/public/desktop/document/FTC\\_v\\_Wyndham\\_Worldwide\\_Corp\\_No\\_213cv01887ESJAD\\_2014\\_BL\\_94785\\_DNJ](http://www2.bloomberglaw.com/public/desktop/document/FTC_v_Wyndham_Worldwide_Corp_No_213cv01887ESJAD_2014_BL_94785_DNJ).

privacy initiatives in the commercial arena with rulemaking and legal action. The report signaled direct White House interest in contemporary privacy problems and buoyed hopes that change might be in the air. The Report and Bill of Rights were cautiously endorsed by a range of parties who have disagreed with one another on virtually everything else to do with privacy, including public interest advocacy organizations such as the Electronic Frontier Foundation, the Electronic Privacy Information Center, the Center for Democracy and Technology as well as industry leaders, including Google and Intel.<sup>3</sup>

Of the seven principles proposed in the Consumer Privacy Bill of Rights, six are recognizable as kin of traditional fair information practice principles, embodied, for example, in the OECD Privacy Guidelines (1980). However, the third principle of “Respect for Context” (PRC), the expectation that “companies will collect, use, and disclose personal data in ways that are consistent with the context in which consumers provide the data” (White House Privacy Report 2012: 47), is intriguingly novel and, in part, a reason the Report suggested that something beyond business-as-usual was its aim. How far the rallying cry around respect-for-context will push genuine progress, however, is critically dependent on how this principle is interpreted. Context is a mercilessly ambiguous term with potential to be all things to all people. Its meanings range from the colloquial and general to the theorized and specific, from the banal to the exotic, the abstract to the concrete, and shades in between. If determining the meaning of context were not challenging enough, determining what it means to respect it opens further avenues of ambiguity. Whether the Privacy Bill of Rights fulfills its promise as a watershed for privacy, and whether the principle of respect for context is an active ingredient in the momentum, will depend on which one of these interpretations drives public or private regulators to action.

### Meanings of context

Setting aside general and colloquial uses, as well as idiosyncratic ones, this chapter takes its cues from specific meanings and shades of meanings embodied in recorded deliberations leading up to public release of the Report and in action and commentary that has followed it, all clearly influential in shaping the principle. My purpose is to highlight how different meanings imply different policy avenues, some seeming to favor the

<sup>3</sup> See Civil 2012; EPIC.org 2012; D. Hoffman 2012; M. Hoffman 2012.

entrenched status quo, others to support progressive if limited improvement. Ultimately, I will argue that the interpretation that opens doors to a genuine advancement in the policy environment is embodied in the theory of contextual integrity; it heeds the call for innovation, recognizes business interests of commercial actors, and at the same time places appropriate constraints on personal information flows for the sake of privacy.

In the subset of interpretations with systematic implications for policy, four are of particular interest because they reflect persistent voices in discussions leading up to and following the White House Report: context as technology platform or system, context as sector or industry, context as business model or practice, and context as social domain. Although within each of the four there are nuances of meaning and subtleties of usage, for purposes of this discussion they have been set aside or, where possible, absorbed into the core. One example of this is *the context of a relationship*, which is more general and abstract than the four listed. In deciding whether this framing warranted a separate analysis, I examined comments from the Online Publishers Association introducing this phrase. Finding that it was referring specifically to the relationship between publishers and their clients (readers, viewers, etc.), I was comfortable in absorbing this understanding of context within that of business practice.

There are many ways context may be relevant to those modeling human behavior. Contextual factors are considered external to a given model but might increase its descriptive or predictive accuracy. In explaining online behavior, for example, contextual factors such as geolocation, time, stage in a series, or a myriad other possibilities may serve to refine a model's performance, helping to explain and predict at finer grain behaviors such as web search, receptiveness to advertising, and even to vulnerability to malevolent overtures, such as phishing attacks (Kiseleva *et al.* 2013a, 2013b). In this manner, contextual factors could be cited in explanations of varying privacy expectations. Thus one may observe that expectations are affected by the context of a promise, a relationship, a conversation, or an event. Place – geospatial or physical location – such as, home, office, café, supermarket, park, corner of Broadway and Bleeker, is a particularly salient contextual refinement (see, e.g. Dwork and Mulligan 2012). Context as place is of natural interest not only because it reflects common English usage, but also because, historically, it has served to qualify privacy expectations, such as in distinguishing the home from public space (US Constitution amendment IV; Selbst 2013).

I have not given independent consideration to context abstractly conceived because I have not seen systematic ties to specific expectations of privacy. Although place is a significant factor in accounting for privacy expectations, it was not singled out in the White House Report. The importance of place in affecting privacy expectations is not necessarily *as an independent factor*, that is, whether an activity takes place inside a building or outside, at one particular geolocation or another, but as it functions in social terms, as, say, a church, home, or hospital – as will be clarified later in this chapter.

### *Context as technology system or platform*

Many of the privacy issues we are confronting emerge from the realm of digital networks – the Internet, and the myriad platforms and systems sitting atop (or below) it, such as mobile systems, email, social networks, cloud providers, and the Web itself. For most of us these disparate technical substrates, systems, and platforms are experienced indistinguishably from one another and, although technical experts give a more rigorous account of their differences, they are akin from the perspective of user experience and political economy. We talk of communication and transaction taking place *online* or *in cyberspace* and the privacy problems emerging from them are associated with these electronically mediated contexts without a clear sense that they may emerge in different ways because of the different architectures and protocols. They become the problems of online privacy – problems of a distinctive domain requiring a distinctive approach. It is a short distance to conceive of this technological substrate as a context, one that makes a difference to privacy; we readily conceive of talking in the context of, say, a phone call, acting in the context of an online social network, expressing ourselves in the contexts of Twitter, Facebook, and Wikipedia, or in the contexts of a mobile app, or location-based services. In such expressions contexts are defined by the properties of respective media, systems, or platforms whose distinctive material characteristics shape – moderate, magnify, enable – the character of the activities, transactions, and interactions they mediate. They also shape the ways information about us is tracked, gathered, analyzed, and disseminated. If properties of technical systems and platforms define contexts, then a principle that supports *respect* for contexts presumably implies that policies should be heedful of these defining properties of systems and platforms.

The idea of context as technical system or platform is suggested in the foreword of the White House Report when it states:

Privacy protections are critical to maintaining consumer trust in networked technologies. When consumers provide information about themselves – whether it is in the context of an online social network that is open to public view or a transaction involving sensitive personal data – they reasonably expect companies to use this information in ways that are consistent with the surrounding context. Many companies live up to these expectations, but some do not. Neither consumers nor companies have a clear set of ground rules to apply in the commercial arena. As a result, it is difficult today for consumers to assess whether a company’s privacy practices warrant their trust.

(White House Privacy Report 2012: i)

Comments by others reflect a similar interpretation. AT&T, for example, notes that diverse technical platforms generate distinctive challenges to privacy: “Indeed, the power of Web 2.0 inter-related media is precisely that content can be used in ways that were not expected or understood when they were collected” (Raul *et al.* 2011: 8). Google encourages enforceable codes of conduct that “reflect changing practices, technologies and shifting consumer expectations” (Chavez 2011: 9); and Intuit observes that “Collecting information for use in routing a request on the Internet should have different standards for transparency, acceptable uses, protection, and retention than the information collected to describe a patient’s visit to a physician” (Lawler 2011: 11). Finally, the idea that technology defines context is suggested in the framing of the National Telecommunications and Information Administration (NTIA)’s July 2012 kickoff multi-stakeholder (MSH) process around mobile applications, suggesting that mobile apps define a normative category.<sup>4</sup>

### *Context as business model or business practice*

In the discourse surrounding the Report, the interpretation of context as prevailing business model or business practice was evident in various comments, particularly those offered by incumbents in the IT and information industries, for example, “Technology neutral and flexible legislation can actually aid small business growth as it provides a clear set of ‘rules of the road’ for everyone, while at the same time allowing those rules to be adapted to each business’ unique situation” (Intel 2011: 4). This

<sup>4</sup> *Multistakeholder Process to Develop Consumer Data Privacy Code of Conduct Concerning Mobile Application Transparency*. Symposium conducted at the open meeting of The National Telecommunications and Information Administration, Washington DC, July, 2012.

comment suggests that technology per se does not define privacy rules of the road, but that these should be guided by the needs of distinctive business models aimed at promoting growth. Similarly, “TRUSTe supports the continued role of industry in defining purpose specifications and use limitations based on the unique needs of a company’s business model” (Maier 2010: 8). According to Google, “The fast-paced introduction of new Internet services drives equally rapid shifts in consumer expectations and preferences. An effective privacy regime must allow for realtime reactions to address changes in consumer privacy preferences resulting from the introduction and adoption of new tools and services” (Chavez 2011: 2). Asserting a special privilege for the business practices of online publishers, the Online Publishers Association, with members including *WebMD*, *FoxNews*, and *The New York Times*, claims that “Online publishers share a direct and trusted relationship with visitors to their websites. In the context of this relationship, OPA members sometimes collect and use information to target and deliver the online advertising that subsidizes production of quality digital content” (Horan 2011: 4).

Interpreted as the model or practice of a particular business, context is established according to that business’ aims and the means it chooses to achieve these aims. There is nothing surprising about merchants orienting their buying and selling practices around profitability, so we should not be surprised that information service providers orient their models around growth and competitive edge. According to this understanding, contexts are defined by particular business models, in turn shaping respective information flow practices. Taking Google’s comment above as a concrete case in point, this interpretation suggests that contexts generated by its business-driven Internet services, for example, shape consumer expectations of privacy, and not the other way around. Similarly, AT&T speculates that the privacy assumptions users hold will bend flexibly to the contours of “marketing purposes,” defined as whatever is needed to strengthen a business model (Raul *et al.* 2011: 17).

### *Context as sector or industry*

Endorsing the sectoral approach that the United States has taken to privacy protection, TRUSTe notes that “the regulatory frameworks currently in place in the US reflect this inherently contextual nature of privacy e.g. FCRA/FACTA (information used in ‘consumer reports’), Gramm-Leach-Bliley (information sharing between financial institutions and affiliates), HIPAA (transactions involving protected health



information by ‘covered entities’” (Maier 2010: 2). In a similar vein: “Intuit’s experience in multiple sectors has taught us that providers and consumers of information in the health sector, for example, have different requirements and expectations for protection than do those in financial services ... Subject matter experts could help inform the development of appropriately balanced codes” (Lawler 2011: 9).

I have placed “industry” in the same category as “sector,” not because they have identical meanings, but because, in practice, these terms are used interchangeably in the commentaries from which I rendered the category. Adopting the interpretation of context as sector or industry, respect for context would amount to adherence to the set of rules or norms developed by, for, and within respective sectors or industries.

### *Context as social domain*

This interpretation, supported by the theory of contextual integrity, presents contexts as social spheres, as constituents of a differentiated social space. As such, they serve as organizing principles for expectations of privacy. Although contextual integrity relies on an intuitive notion of social sphere, covering such instances as education, health care, politics, commerce, religion, family and home life, recreation, marketplace, work, and more, scholarly works in social theory and philosophy have rigorously developed the concept of differentiated social space, though with diverse theoretical underpinnings and terminology (e.g. sphere, domain, institution, field<sup>5</sup>). In intuitive as well as academic accounts, spheres generally comprise a number of constituents, such as characteristic activities and practices, functions (or roles), aims, purposes, institutional structure, values, and action-governing norms. Contextual norms may be explicitly expressed in rules or laws or implicitly embodied in convention, practice, or merely conceptions of “normal” behavior. A common thesis in most accounts is that spheres are characterized by distinctive internal structures, ontologies, teleologies, and norms.

From the landscape of differentiated social spheres the theory of privacy as contextual integrity develops a definition of informational privacy as well as an account of its importance. Taking context to mean social sphere, respect for context would mean respect for social sphere. To explain what *this* means and why it opens new and significant avenues

<sup>5</sup> For a further discussion on spheres, see Nissenbaum 2010: 80, 131, 166–9, 198–200, 240–1.

for the proposed White House policy framework requires a brief excursus into the theory of contextual integrity.

*A detour: theory of contextual integrity*

Other accounts of the profound anxiety over privacy, fuelled by the steep rise in capture, analysis, and dissemination of personal information, point to the loss of control by data subjects and sheer increased exposure. Although these factors are part of the story, the theory of contextual integrity holds the source of this anxiety to be neither in control nor secrecy, but appropriateness. Specifically, technologies, systems, and practices that disturb our sense of privacy are those that have resulted in *inappropriate* flows of personal information. Inappropriate information flows are those that violate context-specific informational norms (from hereon, “informational norms”), a subclass of general norms governing respective social contexts.

Aiming at descriptive accuracy, the theory articulates a model wherein informational norms are defined by three key parameters: information types, actors, and transmission principles. It postulates that whether a particular flow, or transmission of information from one party to another, is appropriate depends on these three parameters, namely, the type of information in question, about whom it is, by whom and to whom it is transmitted, and conditions or constraints under which this transmission takes place. Asserting that informational norms are context-relative, or context-specific, means that within the model of a differentiated social world they cluster around and function according to coherent but distinct social contexts. The parameters, too, range over distinct clusters of variables defined, to a large extent, by respective social contexts.

*Actors* – subject, sender, recipient – range over context-relevant functions or roles, that is, actors functioning in certain capacities associated with certain contexts. These capacities (or functional roles) include the familiar – physician, nurse, patient, teacher, senator, voter, polling station volunteer, mother, friend, uncle, priest, merchant, customer, congregant, policeman, judge, and, of course, many more. Actors governed by informational norms might also be collectives, including institutions, corporations, or clubs.

The parameter of *information type* likewise ranges over variables derived from the ontologies of specific domains. In health care these could include symptomologies, medical diagnoses, diseases, pharmacological drugs; in education they may include cognitive aptitude, performance measures, learning outcomes; in politics, party affiliations, votes

cast, donations; and so forth. There are, in addition, types of information that range across many contexts: to give a few basic examples, name, address, and gender.

*Transmission principle*, the third parameter, designates the terms, or constraints under which information flows. Think of it as a sluiceway. Imagine that you are applying for a bank mortgage on a new home and have signed a waiver allowing the bank to obtain a copy of your credit report from Equifax. To map this transaction onto the structure of context-specific informational norms: (1) actors: you, the applicant, are the data subject, the bank is the data recipient, and the credit bureau is the sender; (2) information type includes the various fields of information that are provided in a credit report; and (3) transmission principle is “with the information subject’s signed waiver.” The transmission principle, abstractly conceived, has not been explicitly recognized in scholarly or policy deliberations even though, in practice, its implicit role in social convention, regulation, and law can be pivotal. Isolating the transmission principle as an independent variable also offers a more general account of the dominant view of privacy as a right to control information about ourselves. Through the lens of contextual integrity, this view mistakes one aspect of the right for the whole, since control over information by the information subject is but one among an extensive range of options, including, “in confidence,” “with third-party authorization,” “as required by law,” “bought,” “sold,” “reciprocal,” and “authenticated,” among others.

A feature of informational norms that bears emphasizing is that the three parameters – actors, information types, and transmission principles – are independent. None can be reduced to the other two, nor can any one of them carry the full burden of defining privacy expectations. This is why past efforts to reduce privacy to a particular class of information – say “sensitive” information – or to one transmission principle – say, control over information – are doomed to fail and, in my view, for decades have invited ambiguity and confusion, hindering progress in our understanding of privacy and attempts to regulate its protection. Control over information is an important transmission principle, but always with respect to particular actors and particular information types, all specified against the backdrop of a particular social context. Although much could be said about each of the parameters, the scope of this chapter limits us.

Contextual integrity is achieved when actions and practices comport with informational norms. But when actions or practices defy expectations by disrupting entrenched or normative information flows, they violate contextual integrity. As such, informational norms model privacy

expectations. When we find people reacting with surprise, annoyance, and indignation, protesting that their privacy has been compromised, the theory would suggest as a likely explanation that informational norms had been contravened, that contextual integrity had been violated. Conversely, informational norms may serve as a diagnostic tool with *prima facie* explanatory and predictive capacities. From observations of technical systems or practices, which result in novel patterns of information flow according to actors, information types, or transmission principles, the theory would predict that people may react with surprise and possibly annoyance. Contextual integrity provides a more highly calibrated view of factors relevant to privacy than traditional dichotomies such as disclose/not disclose, private/public.

The diagnostic or descriptive role of contextual integrity is not the full story, but before turning to the ethical dimension, two quick implications bear mentioning. One is that when it comes to the nuts and bolts of privacy law, policy, and design, area experts in respective contexts – education, health care, and family and home-life – are crucial to understanding roles, functions, and information types. They, not privacy experts, are best equipped to inform processes of norm discovery, articulation, and formation. A second implication is that though practices in well-circumscribed social institutions may be thickly covered by informational rules, only a fraction of all possible information flows in daily life are likely to be covered by explicit norms. Compare, for example a court of law, a stock exchange, and a hospital with an informal social gathering, a shopping mall, a beauty parlor – picking a few at random. The lens of contextual integrity provides a view of emerging digital (sociotechnical) information systems in terms of radical disruptive information flows, in turn an explanation of contemporary anxiety and acute concern over privacy. But many novel information flows are disruptive not because they contravene explicit norms, but because they open up previously impossible (possibly unimaginable) flows. In these instances, consternation follows because flows are unprecedented, and may or may not expose new vulnerabilities and hazards. How to cope with these puzzling cases, in addition to the ones in which existing norms are violated, is a challenge for the prescriptive dimension of contextual integrity.

### *Contextual integrity: ethics and policy*

Novelty and disruption are not problematic even if they result in direct contraventions of entrenched informational norms. Even a superficial survey reveals many welcome alterations in flows brought about

by adoption of information and network technologies; for example, enhanced health indicators, robust and cheap new forms of communication and association, such as through social networks, and information search tools online. In many of these instances novel flows have replaced suboptimal ones that had become entrenched in particular contexts due to the limits of past technologies, media, or social systems. Questions must be addressed, however. How to evaluate disruptive information flows brought about by novel technologies, media, and social systems; how to distinguish those that embody positive opportunities from those that do not; those that violate privacy from those that do not – all important challenges for any theory of privacy. When AT&T asserts, “Consumers approach the Internet with a consistent set of expectations, and they should be able to traverse the Internet having those expectations respected and enforced” (Raul *et al.* 2011: 10), it endorses the normative clout of our privacy expectations. And because we may not agree that *all* expectations deserve to be met, we can reasonably require a theory of privacy to account for the difference between those that do and those that do not. This is the challenge any normative theory privacy should address and it is the challenge for which a normative dimension of contextual integrity was developed.

A fundamental insight of contextual integrity is that because information flows may systematically affect interests and realization of societal values, these can be used as touchstones for normative evaluation. Where novel flows challenge entrenched informational norms, the model calls for a comparative assessment of entrenched flows against novel ones. An assessment in terms of interests and values involves three layers. In the first, it requires a study of how novel flows affect the interests of key affected parties: the benefits they enjoy, the costs and risks they suffer. These may include material costs and benefits as well as those less palpable, including shifts in relative power. Beyond this largely economic analysis, frequently followed in policy circles, the normative analysis directs us to consider general moral, social, and political values. These would include not only costs and benefits but also considerations of fairness, the distribution of these costs and benefits, who enjoys the benefits and who endures the costs. Thus, for example, where new flows involve power shifts, this second layer asks whether the shifts are fair and just. Other core ethical and societal values that have been identified in a deep and extensive privacy literature are democracy, unfair discrimination, informational harm, equal treatment, reputation, and civil liberties. This literature has shone light particularly on the connections between privacy

and aspects of individual autonomy including moral autonomy, boundary management, and identity formation.<sup>6</sup>

The third layer introduces a further set of considerations, namely, context-specific values, ends, and purposes. This layer sets contextual integrity apart from many other privacy theories. It offers a systematic approach to resolving conflicts among alternative patterns of information flow, which serve competing interests and values respectively. In a particular context, one pattern of flow might support individual freedom; an alternative, safety and security. The additional analytic layer may resolve the conflict. In some, freedom will trump, in others, security will trump depending on facts on the ground and respective goals and values. Although privacy is often pitted against the interests of business incumbents, or is viewed as conflicting with values such as national security, public safety, and freedom of expression, contextual integrity allows us to unravel and challenge such claims. This layer insists that privacy, as appropriate information flows, serves not merely the interests of individual information subjects, but also context, social ends, and values.

The claim of this chapter is that context, understood as social sphere, is far more likely to yield positive momentum and meaningful progress in privacy law and policy than understood as technology, sector, or business model. With context-specific informational norms establishing the link between context and privacy, *respect for context* amounts to respect for contextual integrity. To flesh out this claim, a fresh look at the White House Privacy Bill of Rights will be instructive.

### **Respect for context and the Consumer Internet Privacy Bill Of Rights**

The White House Privacy Bill of Rights embodies “fair information practice principles” (FIPPS), as have many codes of privacy before it in the USA and internationally. Appendix B of the report accounts for its debt to FIPPS and other codes in a table that lines up respective principles of the Consumer Privacy Bill of Rights (CPBR) alongside respective principles in the OECD Privacy Guidelines, the Department for Homeland Security (DHS) Privacy Policy (2013), and Asia-Pacific Economic Cooperation (APEC) Principles (White House Privacy Report 2012: 59).<sup>7</sup>

<sup>6</sup> See Nissenbaum 2010, especially Part II.

<sup>7</sup> “Appendix B: Comparison of the Consumer Privacy Bill of Rights to Other Statements of the Fair Information Practice Principles (FIPPS),” (White House Privacy Report 2012.)

The CPBR principles of Transparency, Security, Access and Accuracy, and Accountability have relatively straightforward counterparts in the other sets of guidelines, each worthy, in its own right, of in-depth critical analysis. Respect for Context, the focus of this chapter, is aligned with Purpose Specification and Use Limitation principles. The White House's CPBR principles of Focused Collection and Individual Control, whose counterparts in the OECD Guidelines are listed as Collection and Use Limitation principles, would therefore also be affected by the interpretation of Context.

Let us zoom in for a closer look at the right of Respect for Context, "a right to expect that companies will collect, use, and disclose personal data in ways that are consistent with the context in which consumers provide the data" (White House Privacy Report 2012: 55). Its close kin are given as (1) Purpose Specification and (2) Use Limitation, which require that (1) "The purposes for which personal data are collected should be specified no later than at the time of data collection and the subsequent use limited to the fulfillment of those purposes or such others as are not incompatible with these purposes and as are specified on each occasion of change of purpose" (White House Privacy Report 2012: 58); and (2) "Personal data should not be disclosed, made available or otherwise used for purposes other than those specified in accordance with Paragraph 9 (i.e. purpose specification) except ... (a) with the consent of the data subject; or (b) by the authority of law" (White House Privacy Report 2012: 58).

Speaking philosophically, we can say that the Purpose Specification and Use Limitation principles have only indexical meaning, emerging in particular, concrete instances of use. Once purposes are specified, uses are also limited accordingly. But what these purposes are, or may be, is not given in the principles themselves. One could admire the adaptability of these principles – a virtue of FIPPS, by some counts. Or point out, as has Fred Cate, that FIPPS themselves do not provide privacy protection, merely procedural guidance whose substantive clout is indeterminate.<sup>8</sup> According to Cate, the FIPPS purpose specification principle offers some traction for privacy protection. He points out, however, that unless constraints are placed on what purposes are legitimate (and why), a purely procedural Purpose Specification principle opens a glaring loophole in FIPPS.<sup>9</sup> This point is crucial for my argument about context.

<sup>8</sup> For Cate's cogent analysis, see Cate 2006. See another astute discussion in Rubinstein 2010.

<sup>9</sup> In fairness, others in the policy arena have noted the indeterminacy of the linchpin Purpose Specification and Use Limitation principles and are attempting to set substantive

Use Limitation, in turn, is compromised by the wild-card character of Purpose Specification, as is the principle of Collection Limitation (often called Data Minimization), which restricts information collection to that which is necessary for specified purposes. Talk about a vicious circle! Other principles that may seem to be inoculated against this indexicality are also affected, albeit indirectly. Take Security and Data Quality requirements. Although no explicit mention is made of purpose in these principles, they are implied, as what counts as reasonable standards for both is surely a function of the purposes for which information is gathered and for which it is earmarked – for example whether the information in question is being collected for purposes of national security versus consumer marketing. The meaning of these principles is dependent on purpose, and purpose may be specified by the data collector, at will. Unless and until purposes are shaped by substantive requirements, FIPPS constitutes a mere shell, formally defining relationships among the principles and laying out procedural steps to guide information flows. Given the centrality of FIPPS in virtually all privacy (or data protection) policies throughout the world, it is surprising to find that privacy is elusive, and even that fairness itself can be questioned in the contemporary regimes of privacy policies (Nissenbaum 2011).

### A question of interpretation

The rhetoric surrounding NTIA's release of the Consumer Privacy Bill of Rights was of a new page, ambitious and optimistic. The principle of Respect for Context offered a salient departure from FIPPS' Purpose Specification and Use Limitation principles. Herein lay the promise of something materially different, something better. But whether the promise can be fulfilled and not devolve to business as usual will depend on how we interpret context. In the previous section, we saw that the interpretation of Respect for Context is important not only in its own right, but is pivotal, too, for fixing meanings for other key principles, including, Access and Accuracy, Focused Collection, and Security. Fixing meanings *correctly*, that is in a way that the innovation embodied in Respect for Context materially advances the state of privacy protection in the USA, is, therefore, critical. Below I will explain why, among the four alternatives, context understood as social domain is the most viable basis for progress.

standards. For example, the EU Article 29 Working Party in Opinion 03/201d on purpose limitation and aspects of the problem discussed in Rauhofer 2013.



Consider context as business model or practice. Under this interpretation, context would be determined by the exigencies of a particular business and communicated to individuals via general terms of service. In the context of an online purchase of physical goods, for example, it is reasonable for a merchant to require a consumer's address and valid payment information. But if business purpose is a blank check, we are in trouble. Even in this simple illustration, questions remain: what happens to the information after delivery is completed? With whom can this information be shared, and under what terms? For how long, and who is responsible if harm follows its unintended leakage, or theft by criminals? With the ever-growing thirst for data, questions such as these have multiplied by orders of magnitude and while our intuitions are robust when it comes to merchants of physical goods, reasonable purpose for businesses *in* the information business is murkier still.

If business model and practice define context, political economy would shape the relationship between the information collector and information subject, allowing no recourse to standards beyond business expedience (except in the few sectors where privacy legislation exists). By definition, each business entity determines what is and is not expedient. Other standards, such as security, use limitation, collection minimization, and access, which all are defined in terms of purpose, will be defined accordingly. Defining context as business model leaves the door wide open to anything reasonably conceived as profitable for respective businesses – buying up information resources, extracting information resources from transactions, and using them in any manner (limited only by positive law and regulation). This is not to say that business models are irrelevant to context and informational norms, only that the promise of change will not be fulfilled if business interests are the sole arbiters of context (Friedman 1970). Although business needs are an important consideration, they do not form a sound basis for privacy's moral imperative.

What about context as technology platform or system? First, consider what this means. It is quite sensible to refer to a Facebook profile, a Bing search, a Fitbit group, the Web, an email exchange, and a Google+ Hangout as contexts. The question here, however, is not whether it is *sensible* to use the term context in these ways but whether these ways can form the reference point for Respect for Context. Answering affirmatively means technological affordance would determine moral imperative; it means accepting that whatever information flows happen to be afforded by a social network, a Web search engine, health-tracking device, and so forth, not only determine what *can* happen but what *ought* to happen. In

these stark terms, the thesis may seem absurdly counterintuitive, yet it is embodied in familiar practices and reasoning. Take, for example, controversies surrounding online tracking. After conceding there was strong support for providing individuals the means to delete third-party cookies, various workarounds emerged, such as flash cookies and browser fingerprinting that reinstated cross-site tracking functionality. If technological affordance defines moral imperative, there are no grounds for critiquing the workarounds. Similarly, when Mark Zuckerberg stated that Facebook had altered norms because the system had altered actual flows, he was right, by definition, because whatever flows are enabled by platforms simply *are* the flows that context legitimates.

Denying that technological affordance defines respect for context does not mean it is irrelevant to it. Practices are changed and sometimes they pull norms and standards along with them. The explosive growth of (socio) technical information systems, the source of much consternation over privacy, is responsible for radical disruptions in information-gathering, analysis, and distribution, in the types of information that is accessed, analyzed, and distributed, the actors sending and receiving information, and in the constraints or conditions under which it flows. These disruptions not only divert information flows from one path to another and one recipient to another, or others, but also may reconfigure ontologies, yield new categories of information, and new types of actors and modes of dissemination. Such changes may call for the reconsideration of entrenched norms and development of norms where none previously may have existed.

The “old” technologies of the telephone, for example, introduced novel parameters of voice dissemination including new classes of actors, such as telecommunications companies, human operators, mechanical and electronic switches. Existing norms of flow governing communications and, say, eavesdropping, may provide initial models for new conditions afforded by the telephone. As novel systems cause increasing divergence from pre-existing affordances, novel challenges demand deeper examination of what is at stake in a social world, conversations, and relationships that have been reconfigured by telephonic media. A pair of famous US Supreme Court cases, roughly forty years apart, reveal this progression: *Olmstead v. United States*, 277 US 438 (1928) and *Katz v. United States*, 389 US 347 (1967). Landmark Fourth Amendment cases involving a historical reversal of law, these cases have been endlessly analyzed and taught. The common lesson drawn from them, which I have no cause to challenge, is that the 1967 Court finally “got it right.” Shifting attention

from the foreground of what counts as a legitimate expectation of privacy, to the background of how the world had changed, we note that as telephones became normalized, phone-mediated conversations became integral to social life. In my view, this is key to explaining *why* the Court “got it right” in the *Katz* case. The ascent of telecommunication in social, political, and economic life also meant addressing head-on the status of newly emerging actors, forms of information, and constraints on flow. To this day (underscored by the Snowden revelations) we are living with the consequences of legislation that attempted to define duties of phone companies, and the varied access they (and others) would have to new forms of data, from pen register data to content of phone calls.<sup>10</sup>

Technical systems and platforms shape human activity by constraining and affording what we can do and say; in this sense, they are rightly conceived as contexts and deserve to be objects of attention and regulation. Allowing that people act and transact in contexts shaped by technical systems, does not mean, however, that these systems fully account for the meaning of Respect for Context. So doing allows material design to define ethical and political precepts; it allows the powers that shape the technical platforms of our mediated lives not only to affect our moral and political experiences through built constraints and affordances, but further, to place them beyond the pale of normative judgment.

The practical implications of this distinction can be seen in relation to the first NTIA multistakeholder process. No fool’s errand, its mission was to establish a code of conduct for mobile applications developers. The NTIA process, which (1) identified a new class of actors, including mobile app developers, among others and (2) articulated baseline constraints on appropriate behaviors in the ecologies of mobile information services, concluded with a set of guidelines (US National Telecommunications and Information Administration 2013b). In my view, respect for context, should not stop with these. Beyond the baseline, it would require

<sup>10</sup> 18 USC § 2511(2)(a)(i) 2011, accessed from [www.gpo.gov/fdsys/granule/USCODE-2011-title18/USCODE-2011-title18-partI-chap119-sec2511/content-detail.html](http://www.gpo.gov/fdsys/granule/USCODE-2011-title18/USCODE-2011-title18-partI-chap119-sec2511/content-detail.html): “It shall not be unlawful under this chapter for an operator of a switchboard, or an officer, employee, or agent of a provider of wire or electronic communication service, whose facilities are used in the transmission of a wire or electronic communication, to intercept, disclose, or use that communication in the normal course of his employment while engaged in any activity which is a necessary incident to the rendition of his service or to the protection of the rights or property of the provider of that service, except that a provider of wire communication service to the public shall not utilize service observing or random monitoring except for mechanical or service quality control checks.” Thanks to Chris Hoofnagle for calling attention to this crucial point.

that distinct sets of informational norms be fleshed out for mobile app developers according to the social meaning, or function, of their specific apps. Although developers of, say, Yelp, Google Maps, Foursquare, Fitbit, and Uber should fulfill these baseline obligations in their collection, use, and disclosure of personal information, their obligations do not stop with these. One could reasonably expect Fitbit to treat the information it gathers differently from, say Uber, or Foursquare. Mobile app developers do not escape additional obligations of social context any more than physicians are relieved of duties of confidentiality when information is shared with them over the phone rather than during an office visit. Where technical platforms mediate multiple spheres of life, the need to distinguish technological affordance from moral imperative is acute. Doubtless technologies shape contexts, and may even constitute them, but where Respect for Context is a bellwether for privacy, it is a mistake to confuse technological contexts with those that define legitimate privacy expectations.

Interpreting context as sector or industry overcomes some of the drawbacks of context as business model, because instead of devolving to the self-serving policies of individual businesses, norms of information flow could be guided by a common mission of the collective – ideally, collective best practice. This interpretation also aligns with the US sectoral approach to privacy regulation and legislation, which, at its best, allows for the generation of rules that are sensitive to the distinctive contours of each sector. Extracting a Principle of Respect for Context, carrying moral weight, from a descriptive notion of sector requires a bridge. One is to recognize explicitly that sectors include more than industries, which range over a limited set of, primarily, business sectors. Existing practice in the USA goes partway in this direction, in talk of education and health care, for example, as sectors. Extending the range to politics, family, or religion could deepen the appreciation of appropriate informational rules even further. Expanding and qualifying the scope of sectors in these ways, however, brings them close to the construct of social spheres around which the theory of contextual integrity is oriented.

Interpreting the Principle of Respect for Context as respect for contextual integrity means first, that any significant disruption in information flows triggers a call for analysis and evaluation in terms of types of information, actors, and transmission principles. Because shifts and changes characteristic of these disruptions may correspond to shifts and changes in the balance of interests as well as achievement and abatement of values, identifying them is a crucial first step. Second, an evaluation of disruptive flows extends beyond conventional measures of stakeholder

interests and even beyond general moral and political values. It brings to the fore context-specific functions, purposes, and values. Context is crucial to privacy, not only as a passive backdrop against which the interests of affected parties are measured, balanced, and traded off; rather, it contributes independent, substantive landmarks for *how* to take these interests and values into account. It makes the integrity of the contexts *themselves* the arbiter of privacy practices – vibrant marketplace, effective health care, sound education, truly democratic governance, and strong, trusting families and friendships.

### Summary of argument

For the Consumer Privacy Bill of Rights to advance privacy protection beyond its present state, a great deal hangs on how the Principle of Respect for Context is interpreted. Acknowledging the pivotal place context holds in the White House vision, commentaries have converged around four primary contenders: business model, technology, sector, and social domain. I have argued that respecting context as *business model* offers no prospect of advancement beyond the present state of affairs.

Respecting context as *sector* (or industry) fares slightly better as it offers a framework beyond the needs of individual businesses for establishing standards and norms. How well this approach meaningfully advances privacy protection beyond the present state depends on how sectors are defined. This problem is particularly acute where the sector or industry in question is the “information sector,” where the proverbial fox would be guarding the henhouse. Further, if industry dominates the construction of sectors, the influence of sectors such as health care, education, religion, and politics will be diminished, or the commercial aspects of these industries may play a disproportionate role. Correcting for these distortions brings sector-as-context closer to context-as-social domain. Understanding context in purely *technological* terms implies that legitimate expectations should be adjusted to reflect technical affordances and constraints, but in so doing drains respect for context of moral legitimacy, getting things exactly backwards. Our morally legitimate expectations, shaped by context and other factors, should drive design and define the responsibilities of developers, not the other way around.

Interpreting context as *social domain*, as characterized in the theory of contextual integrity, avoids many of the problems associated with the other three options. To respect context under this interpretation

means to respect contextual integrity, and, in turn, to respect informational norms that promote general ethical and political values, as well as context-specific ends, purposes, and values. The ultimate contribution of contextual integrity does not rest with the concept of context per se, but with two fundamental ideas behind it: one is the idea that privacy (or informational) norms require all relevant parameters to be specified including actors (functioning in roles), information types, and transmission principles. Omitting any one of these yields rules that are partial and ambiguous. The second fundamental idea is of context-specific ends, purposes, and values, which extend the significance of privacy beyond the balancing of interests, harms, and benefits. Contextual integrity reveals the systematic dependencies of social values on appropriate information flows, once and for all challenging the fallacy of privacy as valuable for individuals alone.

### Conclusion: implications for practice

I have argued that how context is interpreted in Respect for Context makes more than a semantic difference. To demonstrate the significance of this difference, let us consider how it might play out in practice by returning to 18 USC Section 2511 (2)(a)(i), which, as we saw, prohibits telecommunications providers from intercepting, disclosing, or using the content of communications except, in limited circumstances, which include rendering service or protecting their property with further exceptions for legitimate needs of law enforcement and national security. For the sake of argument, assume that no such legislation existed and, based on the Principle of Respect for Context, regulation for this slender part of the landscape must be newly designed. What difference does interpretation make?

According to contextual integrity, interpreting context as social domain would focus attention on the role of telecommunications providers as communications' mediators. In this light, the tailored access rights devised by 18 USC Section 2511 (2)(a)(i), allowing surveillance of conversations for the express purpose of assuring quality of service and protection of property was a brilliant compromise. Laxer policies, as supported by the other interpretations, may discourage intimate or political conversation, as well as other sensitive conversations, such as strategic business planning or path-breaking scientific collaborations, creating disadvantage for those needing to communicate or benefitting from it. But beyond these impacts on various parties, they would reduce the utility of communications networks to individuals as well as their service of respective

contextual ends, purposes, and values. Context as social domain draws attention to these higher order considerations, also reflected in the drafting of 18 USC Section 2511 (2)(a)(i).

Contexts are shaped by technology, business practice, and industry sector. They may also be constituted by geographic location, relationship, place, space, agreement, culture, religion, and era, and much more besides. In individual cases, any of these factors could qualify and shape peoples' expectations of how information about us is gathered, used, and disseminated. No one of them, however, provides the right level of analysis, or carries the same moral and political weight as social domain. This is the thesis I have defended here. In light of it, I offer an amendment to the Consumer Privacy Bill of Right's Principle of Respect for Context:

*Respect for Context means consumers have a right to expect that companies will collect, use, and disclose personal data in ways that are consistent with the [social] context in which consumers provide the data.*

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