# VIRGINIA JOURNAL OF LAW & TECHNOLOGY

**WINTER 2011** 

UNIVERSITY OF VIRGINIA

# Towards a Brighter Fourth Amendment: *Privacy and Technological Change*

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### ABSTRACT

This Article seeks to solve the problem of technological change eroding privacy by developing a framework of bright-line Fourth Amendment rules. As technologies such as the Internet become increasingly important in our daily lives, we come to expect less privacy. The Fourth Amendment, which protects citizens against unreasonable government intrusions, provides increasingly less protection as technology diminishes privacy expectations. Moreover, law enforcement agencies continually develop more sophisticated surveillance technology to spy on private conduct. However, courts are unable to keep up with these rapid technological developments. Technology changes too quickly even for statutory rules, and law enforcement lobbies legislatures to protect less privacy. Also, law enforcement agencies have little incentive to regulate themselves to protect privacy. Therefore, the courts must adopt bright-line Fourth Amendment rules. Given the strictness of such rules, they should only be initially adopted for homes and human bodies, uncontroversial areas that have received longstanding, heightened legal protection.

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### I. INTRODUCTION

On November 13, 2010, John Tyner tried to fly from San Diego International Airport to South Dakota. Before he could board his flight, Transportation Security Administration (TSA) screeners instructed him to undergo a full body scan that renders naked, albeit grainy, images of passengers. Tyner refused. TSA screeners then insisted he face an "enhanced" pat down, which would include a "groin check." Tyner again refused, crying "don't touch my junk!" He never boarded his flight to South Dakota. TSA Director John Pistole has defended the full body scans and enhanced pat downs, arguing that they are necessary for national security and simply need to be better explained to the public.<sup>1</sup>

Given the technological developments of the past few decades, it is unsurprising that the TSA expects complicity in serious invasions of privacy. Digital technology already affects "the way we shop, bank and go about our daily business."<sup>2</sup> This has enabled private companies to track and aggregate credit card transactions, medical

<sup>&</sup>lt;sup>1</sup> See Catherine Saillant, *Traveler Who Resisted TSA Pat-Down Is Glad His Moment of Fame Is Nearly Over*, L.A. TIMES, Nov. 19, 2010, http://www.latimes.com/news/local/la-me-screening-tyner-20101119,0,793395.story; Joe Sharkey, *Screening Protests Grow as Holiday Crunch Looms*, N.Y. TIMES, Nov. 15, 2010, http://www.nytimes.com/2010/11/16/business/16road.html?\_r=1&ref=joe\_sharkey.

<sup>&</sup>lt;sup>2</sup> Daniel J. Solove, *Privacy and Power: Computer Databases and Metaphors for Information Privacy*, 53 STAN. L. REV. 1393, 1394 (2001).

prescriptions, social networking postings and even real estate records.<sup>3</sup> Over time, these technologies reduce the amount of privacy people subjectively experience in their daily lives, causing them to expect less privacy overall.<sup>4</sup> Yet as the public outcry against enhanced airport screening shows, the government can go too far.<sup>5</sup> Aside from viewing naked images of passengers, the government can track people by global position system (GPS),<sup>6</sup> satellite technology<sup>7</sup> or radio frequency identification,<sup>8</sup> look into private residences with video surveillance<sup>9</sup> and thermal imaging,<sup>10</sup> and even read personal emails.<sup>11</sup>

The capacity of government surveillance "to spy on private conduct" has sparked an academic debate about whether courts or legislatures are better able to protect privacy in the face of new technologies.<sup>12</sup> The academic consensus favors courts expanding Fourth Amendment protections against new government surveillance tools.<sup>13</sup> A minority view contends that courts cannot keep pace with rapid technological change, so legislatures are bettered suited to protect privacy.<sup>14</sup> However, statutory schemes can quickly become outdated, and legislatures are subject to lobbying by law enforcement

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<sup>&</sup>lt;sup>3</sup> See A. Michael Froomkin, *The Death of Privacy*?, 52 STAN. L. REV. 1461, 1468–1501 (2000); Will Thomas DeVries, Note, *Protecting Privacy in the Digital Age*, 18 BERKELEY TECH. L.J. 283, 291 (2003); Jerry Berman & Deirdre Mulligan, *The Internet and the Law: Privacy in the Digital Age: A Work in Progress*, 23 NOVA L. REV. 549, 555 (1999); Emily Steel, *A Web Pioneer Profiles Users by Name*, WALL ST. J., Oct. 25, 2010, at A1 [hereinafter Steel, *Web Pioneer*].

<sup>&</sup>lt;sup>4</sup> See Shaun Spencer, *Reasonable Expectations and the Erosion of Privacy*, 39 SAN DIEGO L. REV. 843, 863 (2002) [hereinafter Spencer, *Reasonable Expectations*]; JEFFREY ROSEN, THE UNWANTED GAZE: THE DESTRUCTION OF PRIVACY IN AMERICA 60–61 (2000).

<sup>&</sup>lt;sup>5</sup> See Susan Stellin, Pat-Downs at Airports Prompt Complaints, N.Y. TIMES, Nov. 18, 2010, http://www.nytimes.com/2010/11/19/business/19security.html?partner=rss&emc=rss.

<sup>&</sup>lt;sup>6</sup> See Daniel J. Solove, The Coexistence of Privacy and Security: Fourth Amendment Codification and Professor Kerr's Misguided Call for Judicial Deference, 74 FORDHAM L. REV. 747, 763 (2003) [hereinafter Solove, Coexistence].

<sup>&</sup>lt;sup>7</sup> See Mark Monmonier, Spying with Maps: Surveillance Technology and the Future of Privacy (2002).

<sup>&</sup>lt;sup>8</sup> See Paul M. Schwartz, Property, Privacy and Personal Data, 117 HARV. L. REV. 2055, 2060 (2004).

<sup>&</sup>lt;sup>9</sup> See United States v. Mesa-Rincon, 911 F.2d 1433, 1437 (10th Cir. 1990).

<sup>&</sup>lt;sup>10</sup> See Kyllo v. United States, 533 U.S. 27, 38 (2001).

<sup>&</sup>lt;sup>11</sup> See Sonia Arrison, New Anti-Terrorism Law Goes Too Far, S.D. UNION TRIB., Oct. 31, 2001, at B9 ("The law also expands Internet surveillance by making Carnivore, the controversial email wiretapping system official, even though there is a real danger that it over-collects information."); COMPUTER CRIME AND INTELLECTUAL PROP. SECTION, U.S. DEP'T OF JUSTICE, MANUAL ON SEARCHING AND SEIZING COMPUTERS AND OBTAINING ELECTRONIC EVIDENCE IN CRIMINAL INVESTIGATIONS § III.B (2001), available at http://www.cybercrime.gov/ssmanual [hereinafter COMPUTER CRIME] (arguing that read e-mail stored on a server can be obtained with a subpoena and does not require a warrant).

<sup>&</sup>lt;sup>12</sup> Robert C. Power, Criminal Law: Technology and the Fourth Amendment: A Proposed Formulation for Visual Searches, 80 J. CRIM. L. & CRIMINOLOGY 1, 2 & n.2 (1989).

<sup>&</sup>lt;sup>13</sup> See, e.g., Deirdre K. Mulligan, Reasonable Expectations in Electronic Communications: A Critical Perspective on the Electronic Privacy Act, 72 GEO. WASH. L. REV. 1557, 1586–93 (2004) [hereinafter Mulligan, Reasonable Expectations]; Christopher Slobogin, Camera Surveillance of Public Places and the Right to Anonymity, 72 MISS. L.J. 213 (2002) [hereinafter Slobogin, Camera].

<sup>&</sup>lt;sup>14</sup> See Orin S. Kerr, *The Fourth Amendment and New Technologies: Constitutional Myths and the Case for Caution*, 102 MICH. L. REV. 801, 859, 875–82 (2004) [hereinafter Kerr, *New Technologies*]; Orin S. Kerr, *Congress, The Courts, and New Technologies: A Response to Professor Solove*, 74 FORDHAM L. REV. 779, 785–86 (2005) [hereinafter Kerr, *Congress*].

interests.<sup>15</sup> Since neither rulemaking institution is able to respond sufficiently rapidly to technological change, courts should take the "long view" of the Fourth Amendment by adopting bright line rules protecting core areas of privacy.<sup>16</sup> This Article seeks to develop a framework of bright-line Fourth Amendment rules that continue to provide privacy protection regardless of advancements in surveillance technology. Unlike specific constitutional or statutory privacy protections, which constantly lag and risk misunderstanding new surveillance technologies, bright-line rules ensure that no body of government has to play catch up. The bright-line rules protect privacy regardless of the new technologies that law enforcement agencies adopt, ensuring that existing Fourth Amendment protections do not become increasingly vacuous. Given the extraordinary protective power of bright-line rules, they should only be initially adopted for core areas of privacy that have always received heightened legal protection: namely, homes and human bodies. However, as the reach of surveillance technology grows and the social use of technology changes, they may need to be extended to new areas.

The Article is organized as follows. Part II demonstrates how technology decreases society's privacy expectations and enables highly intrusive government surveillance. Part III discusses the academic debate surrounding the institutional capacities of courts, legislatures and law enforcement agencies to protect privacy. Part IV argues that only bright-line rules can adequately protect privacy against new technologies. It sets out bright-line Fourth Amendment rules protecting homes and bodies that flow from longstanding legal principles as well as recent case law. It also defends the rules against possible legal and policy criticisms, and shows that they will induce the innovation and adoption of privacy protecting technologies.

### II. TECHNOLOGY AND PRIVACY

This Section shows how two technological trends serve to decrease privacy. First, the Section details how recent technological innovations, mostly digitalization and the internet, decrease society's privacy expectations. Second, the Section analyzes new law enforcement technologies, such as data mining, thermal imaging, video surveillance, GPS and DNA typing, and their differential effects. This Section argues that the combination of these two trends magnifies the decrease in privacy. It defends this claim against those who argue that technology increases privacy and makes law enforcement surveillance less intrusive.

#### A. Privacy Expectations and Technological Change

The Internet and digital recordkeeping have brought untold economic benefits to societies throughout the world, yet, as with all technologies, they are not without costs. While collecting and recording every webpage visit, credit card transaction and medical

<sup>&</sup>lt;sup>15</sup> See, e.g., Daniel J. Solove, *Reconstructing Electronic Surveillance Law*, 72 GEO. WASH. L. REV. 1264, 1281 (2004) [hereinafter Solove, *Reconstructing*]; Peter P. Swire, Katz *is Dead. Long Live* Katz, 102 MICH. L. REV. 904, 914 (2004) [hereinafter Swire, *Long Live*]; William J. Stuntz, *The Pathological Politics of Criminal Law*, 100 MICH. L. REV. 505, 534 (2001) [hereinafter Stuntz, *Pathological*].

<sup>&</sup>lt;sup>16</sup> Kyllo v. United States, 533 U.S. 27, 40 (2001).

prescription enables more efficient commerce, it also removes any privacy or anonymity on the internet or in commercial dealings.<sup>17</sup> Over time, such widespread, personalized data collection downwardly redefines privacy norms by diminishing the amount of privacy people subjectively experience in their daily lives.<sup>18</sup> This process occurs gradually so that, at first, it seems to be "the inevitable price of progress," but it then becomes "self-perpetuating."<sup>19</sup> For instance, employers often monitor employees' email.<sup>20</sup> While these policies may provoke some initial opposition, once established they reshape privacy expectations to exclude some internet use and enable further "incremental encroachment[s]," such as monitoring which websites employees visit.<sup>21</sup> The "internalization" by society of each successful encroachment-internet companies attempting to sell personal information to third parties,<sup>22</sup> media companies reporting lurid personal details,<sup>23</sup> and social networking and blogging sites<sup>24</sup>—results in vast decreases in privacy expectations over time.<sup>25</sup>

In this context, the free flow of information further diminishes privacy expectations. For instance, patients' medical records are widely shared throughout the healthcare industry, mostly with those who have no medical need to access them.<sup>26</sup> Large organizations also inadvertently disclose highly sensitive and personal material with alarming frequency.<sup>27</sup> Accidental disclosures have ranged from credit reports to confidential medical information, and even children's psychological records.<sup>28</sup> These serious breaches of privacy are only among those acting in good faith. Criminals can hack businesses' financial records or the Internal Revenue Service's computers to engage in identify theft.<sup>29</sup> As society adapts to this new, digitized world, it necessarily accepts that it does not have a "right to be let alone" in its commercial dealings, medical treatments, or on the internet.<sup>30</sup> So Scott McNealy, founder of Sun Microsystems, was

<sup>25</sup> Spencer, *Reasonable Expectations*, *supra* note 4, at 863. See generally Eugene Volokh, The Mechanisms of the Slippery Slope, 116 HARV. L. REV. 1026, 1105-14 (2003) (discussing "small change tolerance slippery slopes").

<sup>26</sup> See CHARLES J. SYKES, THE END OF PRIVACY 102 (1999) (describing widespread but routine sharing of patients' medical information among players in healthcare bureaucracy, including HMOs, insurance companies, hospital workers, pharmacists, pharmaceutical companies and employers); see also AMITAI ETZIONI, THE LIMITS OF PRIVACY 164-74 (1999) [hereinafter ETZIONI, LIMITS] (proposing a variety of ways to restricted unnecessary access to patients' health care information).

<sup>27</sup> Spencer, *Reasonable Expectations*, *supra* note 4, at 887–89.

<sup>28</sup> See Mark E. Budnitz, Privacy Protection for Consumer Transactions in Electronic Commerce: Why Self-Regulation Is Inadequate, 49 S.C. L. REV. 847, 854 (1998); Charles Piller, Web Mishap: Kids' Psychological Files Posted, L.A. TIMES, Nov. 7, 2001, at A1.

<sup>30</sup> Samuel D. Warren & Louis D. Brandies, *The Right to Privacy*, 4 HARV. L. REV. 193, 195 (1890).

<sup>&</sup>lt;sup>17</sup> See supra notes 2–4 and accompanying text.

<sup>&</sup>lt;sup>18</sup> See ROSEN, supra note 4, at 60-61.

<sup>&</sup>lt;sup>19</sup> Spencer, *Reasonable Expectations*, *supra* note 4, at 861.

<sup>&</sup>lt;sup>20</sup> See id. at 860–62.

<sup>&</sup>lt;sup>21</sup> *Id.* at 863.

<sup>&</sup>lt;sup>22</sup> See id. at 871–73.

<sup>&</sup>lt;sup>23</sup> See id. at 873–77.

<sup>&</sup>lt;sup>24</sup> See Steel, Web Pioneer, supra note 3; Steve Stecklow, On the Web, Children Face Intensive Tracking, WALL ST. J., Sept. 18, 2010, at A1 (noting the importance of social networking sites and "virtual worlds" for data collection).

<sup>&</sup>lt;sup>29</sup> See Spencer, Reasonable Expectations, supra note 4, at 886–93.

speaking only partly in hyperbole when he declared: "You have zero privacy anyway. Get over it."<sup>31</sup>

Nonetheless, there are some who argue that technology increases society's privacy expectations.<sup>32</sup> They contend that technology such as cell phones and the internet enhance privacy by enabling individuals to communicate or shop from within the home instead of in public.<sup>33</sup> This reasoning is flawed because it fails to appreciate the differences between physical and digital communications. While a person can theoretically be constantly followed in public,<sup>34</sup> digital communications can be cheaply tracked, stored and consolidated in databases.<sup>35</sup> As a result, instead of increasing privacy by bringing previously public activities into the home, new technologies decrease communicative privacy even within the home.<sup>36</sup>

### B. Privacy and Law Enforcement Surveillance Technology

Ever since the Supreme Court found that citizens' conversations in public telephone booths are protected from warrantless government wiretapping in *Katz v. United States*,<sup>37</sup> the constitutional limits of government surveillance have depended on societal privacy expectations. Specifically, the Fourth Amendment protects areas and activities where a defendant has an actual or subjective expectation of privacy "that society is prepared to recognize as 'reasonable."<sup>38</sup> Therefore, as technology, facilitated by both the private sector and government, lowers the amount of privacy people come to expect in their daily lives, the Fourth Amendment provides increasingly less protection.<sup>39</sup> In this "gray area of unsettled expectations," law enforcement agencies have exercised their surveillance powers to the constitutional limit.<sup>40</sup>

<sup>&</sup>lt;sup>31</sup> Polly Sprenger, *Sun on Privacy: 'Get Over It,'* WIRED NEWS, Jan. 26, 1999, http://www.wired.com/news/politics/0,1283,17538,00.html (quoting Scott McNealy, founder of Sun Microsystems).

<sup>&</sup>lt;sup>32</sup> See Ric Simmons, Why 2007 Is Not Like 1984: A Broader Perspective on Technology's Effect on Privacy and Fourth Amendment Jurisprudence, 97 J. CRIM. L. & CRIMINOLOGY 531, 534–38 (2007) [hereinafter Simmons, Broader Perspective]; Kerr, New Technologies, supra note 14, at 864–67 & n.383.

<sup>&</sup>lt;sup>33</sup> See Simmons, Broader Perspective, supra note 32, at 534–38.

<sup>&</sup>lt;sup>34</sup> See id. at 539.

<sup>&</sup>lt;sup>35</sup> See Paul M. Schwartz, Privacy and Democracy in Cyberspace, 52 VAND. L. REV. 1609, 1617–47 (1999) (detailing the extent to which personal information is collected online and proposing rules for fair practice); Daniel J. Solove, *Digital Dossiers and the Dissipation of Fourth Amendment Privacy*, 75 S. CAL. L. REV. 1083, 1089–1101 (2002) [hereinafter Solove, *Digital Dossiers*] (noting the myriad ways the government can gather information without suspicion); Julie E. Cohen, *A Right to Read Anonymously: A Closer Look at "Copyright Management" in Cyberspace*, 28 CONN. L. REV. 981, 983–89 (1996) (noting that every digital interaction leaves personally identifiable fingerprints).

<sup>&</sup>lt;sup>36</sup> See, e.g., Laurie Thomas Lee, Can Police Track Your Wireless Calls? Call Location Information and Privacy Law, 21 CARDOZO ARTS & ENT. L.J. 381, 382 (2003) (arguing that new technologies such as cell phones have become the consumer's "ankle bracelet" because they enable government to monitor citizens' movements more easily).

<sup>&</sup>lt;sup>37</sup> 389 U.S. 347, 353 (1967).

<sup>&</sup>lt;sup>38</sup> Id. at 361 (Harlan, J., concurring).

<sup>&</sup>lt;sup>39</sup> See supra notes 17–31 and accompanying text.

<sup>&</sup>lt;sup>40</sup> Spencer, *Reasonable Expectations, supra* note 4, at 844.

Consider digitized recordkeeping. Since private companies collect and store large quantities of personal data,<sup>41</sup> police and prosecutors can freely access it during criminal investigations with the store state of the store state of the store state.

investigations without first obtaining a warrant.<sup>42</sup> Building on this concept, law enforcement agencies have developed their own databases, such as sex offender registries and no-fly lists, to track suspects and deny them certain liberties.<sup>43</sup> Despite their lack of procedural safeguards,<sup>44</sup> courts have uniformly upheld these databases.<sup>45</sup> Not content to simply mine data, police have warrantlessly tracked individuals using video surveillance,<sup>46</sup> GPS tracking devices, <sup>47</sup> satellite technology, <sup>48</sup> radio frequency identification,<sup>49</sup> facial recognition software,<sup>50</sup> and iris scanning technology.<sup>51</sup> Police have even used thermal imaging devices to look into homes.<sup>52</sup> Some of these surveillance technologies can reveal startlingly personal information that people do not wish exposed

<sup>&</sup>lt;sup>41</sup> See supra notes 2–4 and accompanying text.

<sup>&</sup>lt;sup>42</sup> See, e.g., Couch v. United States, 409 U.S. 322 (1973) (finding no Fourth Amendment protection for tax records); United States v. Miller, 425 U.S. 435 (1976) (finding no Fourth Amendment protection for bank records); Smith v. Maryland, 442 U.S. 735 (1979) (finding no Fourth Amendment protection for phone records). It is worth noting, however, that the third party doctrine has proven very controversial among legal academics. *Compare* Orin S. Kerr, *The Case for the Third Party Doctrine*, 107 MICH. L. REV. 561, 588–90 (2009) ("So long as a person knows that they are disclosing information to a third party, their choice to do so is voluntary and the consent valid."); Orin S. Kerr, *Defending the Third-Party Doctrine: A Response to Epstein and Murphy*, 24 BERKELEY TECH. L.J. 1229 (2009), with CHRISTOPHER SLOBOGIN, PRIVACY AT RISK: THE NEW GOVERNMENT SURVEILLANCE AND THE FOURTH AMENDMENT 151–64 (2007) [hereinafter SLOBOGIN, PRIVACY AT RISK]; Erin Murphy, *The Case Against the Case for Third-Party Doctrine: A Response to Epstein and Kerr*, 24 BERKELEY TECH. L.J. 1239 (2009).

<sup>&</sup>lt;sup>43</sup> See Erin Murphy, Paradigms of Restraint, 57 DUKE L.J. 1321, 1336–40 (2008) [hereinafter Murphy, Paradigms].

<sup>&</sup>lt;sup>44</sup> See Laura K. Donohue, Anglo-America Privacy and Surveillance, 96 J. CRIM. L. & CRIMINOLOGY 1059, 1136–37 (2006) (discussing the federal government's creation of lists forbidding or limiting airline travel by certain individuals but without developing any procedural safeguards to ensure the accuracy of the lists).

<sup>&</sup>lt;sup>45</sup> See, e.g., Smith v. Doe, 538 U.S. 84, 105–06 (2003); Conn. Dep't of Pub. Safety v. Doe, 538 U.S. 1, 4 (2003); see generally Whalen v. Roe, 429 U.S. 589 (1977) (finding no constitutional violation if the state simply amasses private information).

<sup>&</sup>lt;sup>46</sup> See, e.g., Cara Buckley, New York Plans Surveillance Veil for Downtown, N.Y. TIMES, July 9, 2007, at A1 (describing a New York City plan to install cameras linked to license plate databases that could trigger barriers if cars banned from the area passed nearby).

<sup>&</sup>lt;sup>47</sup> See, e.g., United States v. Moran, 349 F. Supp. 2d 425, 467–68 (N.D.N.Y. 2005) (upholding the warrantless use of GPS tracking devices).

<sup>&</sup>lt;sup>48</sup> See Mark Monmonier, Spying with Maps: Surveillance Technology and the Future of Privacy (2002).

<sup>&</sup>lt;sup>49</sup> See Paul M. Schwartz, Property, Privacy and Personal Data, 117 HARV. L. REV. 2055, 2060 (2004).

<sup>&</sup>lt;sup>50</sup> See, e.g., People v. Johnson, 43 Cal. Rptr. 3d 587, 597–98 (Cal. Ct. App. 2006) (discussing potential uses of facial recognition software); see also David Lamb, One Last City is Scanning Faces in the Crowd, L.A. TIMES, Sept. 29, 2003, at A10 (reporting that Virginia Beach continues to use facial-recognition systems to scan for terrorists, felons with outstanding warrants, and missing children).

<sup>&</sup>lt;sup>51</sup> See, e.g., Eyeticket Corp. v. Unisys Corp., 155 F. Supp. 2d 527, 532–34 (E.D. Va. 2001) (describing potential uses of iris scanning technology).

<sup>&</sup>lt;sup>52</sup> See Kyllo v. United States, 533 U.S. 27, 38 (2001) ("The Agema Thermovision 210 might disclose, for example, at what hour each night the lady of the house takes her daily sauna and bath–a detail that many would consider 'intimate'....").

to the public.<sup>53</sup> Society's loss of privacy has even extended to the genetic level, as the government develops DNA databases to catch not only the individuals in the database, but their relatives as well.<sup>54</sup> Thus, law enforcement surveillance reinforces the downward effect of technology on privacy.

There is a minority of commentators who think that improved police surveillance technology will increase privacy.<sup>55</sup> They make two main arguments. First, they point out that some technology, most notably encryption, directly increases privacy.<sup>56</sup> Second, they argue that technology enables more targeted and focused searches, especially in the digital realm, resulting in less intrusion.<sup>57</sup> Both these argument miss the fact that technologies such as encryption and data mining are responses to privacy intrusions. Encryption is only necessary because hackers and government surveillance are capable of reading files and emails.<sup>58</sup> Similarly, police have only developed targeted email search surveillance after initially using more intrusive searches.<sup>59</sup> Therefore, privacy-enhancing technology will always lag behind privacy-intruding surveillance technology, leaving society's reasonable expectations of privacy unprotected against government surveillance.

Such "response" technology will never fully catch-up to surveillance technology, in part due to economic incentives.<sup>60</sup> In the private sector, technology companies regularly worry about "backlash" from consumers if they collect or utilize private data too aggressively.<sup>61</sup> In numerous instances, companies have curtailed or even withdrawn innovations that upset their customers.<sup>62</sup> While the private sector faces financial

<sup>&</sup>lt;sup>53</sup> See, e.g., United States v. Mesa-Rincon, 911 F.2d 1433, 1437 (10th Cir. 1990) (noting the intrusion of video surveillance "that recorded a person masturbating before the hidden camera").

<sup>&</sup>lt;sup>54</sup> See Murphy, *Paradigms*, *supra* note 43, 1329–32 & n.36.

<sup>&</sup>lt;sup>55</sup> See Orin S. Kerr, *The Fourth Amendment in Cyberspace: Can Encryption Create a "Reasonable Expectation of Privacy?,"* 33 CONN. L. REV. 503, 530–31 (2001); Kerr, *New Technologies, supra* note 14, at 865 n.383; Orin S. Kerr, *Internet Surveillance Law After the USA PATRIOT Act: The Big Brother that Isn't*, 97 NW. U. L. REV. 607, 653–54 (2003) [hereinafter Kerr, *Big Brother*]; Simmons, *Broader Perspective, supra* note 32, at 546–47, 563–65; Ric Simmons, *Technology-Enhanced Surveillance by Law Enforcement Officials*, 60 N.Y.U. ANN. SURV. AM. L. 711, 715, 731 (2005) [hereinafter Simmons, *Technology-Enhanced*].

<sup>&</sup>lt;sup>56</sup> See Kerr, supra note 55, at 529–31 (noting that encryption "extends far greater privacy protection than the warrant requirement of the Fourth Amendment ever could" due to the near impossibility of decrypting complicated encryption keys); Simmons, *Broader Perspective, supra* note 32, at 546–47.

<sup>&</sup>lt;sup>57</sup> See Simmons, Broader Perspective, supra note 32, at 563–64 ("[T]he government can use software that can sift through and copy only those messages with incriminating words or specific names, thus letting the innocent ones pass through without any human ever reading them."); Kerr, *Big Brother, supra* note 55, at 648–54.

<sup>&</sup>lt;sup>58</sup> See Kerr, supra note 55, at 527.

<sup>&</sup>lt;sup>59</sup> See Kerr, Big Brother, supra note 55, at 651–52.

<sup>&</sup>lt;sup>60</sup> Simmons, *Broader Perspective*, *supra* note 32, at 545.

<sup>&</sup>lt;sup>61</sup> Jessica E. Vascellaro, *Google Agonizes on Privacy as Ad World Vaults Ahead*, WALL ST. J., Aug. 10, 2010, at A1.

<sup>&</sup>lt;sup>62</sup> See, e.g., Geoffrey A. Fowler & Emily Steel, *Facebook Says User Data Sold to Broker*, WALL ST. J., Oct. 31, 2010, at B3 (reporting Facebook's swift response to a violation of its privacy policy by a data broker); *A Special Report on Smart Systems: Sensors and Sensibilities*, ECONOMIST, Nov. 6, 2010, at 15–16 (reporting that Pacific Gas & Electric "smart" utility meter installation program was curtailed and adapted after customer complaints of higher power bills).

### III. COURTS, LEGISLATURES, LAW ENFORCEMENT AND BRIGHT LINE RULES

This Section explores the academic debate surrounding the institutional competences of courts and legislatures to make Fourth Amendment rules for new technologies. It adds to the debate by including academic work from economists and political scientists concerning public choice theory and the legislative process. The Section argues that neither courts nor legislatures can adequately keep pace with technological change. It then examines internal privacy regulation by law enforcement, a topic largely ignored by the mainstream academic debate. It argues that law enforcement agencies are the only bodies of government capable of protecting privacy at the same pace as technological advancement, since they are the ones adopting the new technologies. However, this Section concludes that law enforcement agencies have no incentive to protect privacy, so trusting them is tantamount to leaving the fox guarding the henhouse.

#### A. Courts versus Legislatures

Most Fourth Amendment scholars favor an activist judiciary in Fourth Amendment law because, they argue, criminal suspects and defendants are disliked minorities who will never be able to vote themselves proper protections in a democracy.<sup>66</sup> As a result, legislatures face little or no political pressure to protect the rights of the criminally accused, but face strong political pressure to ensure crime control.<sup>67</sup> Therefore, the politically insulated courts must step in to protect crime suspects.<sup>68</sup> Yet, commentators note with horror, the Fourth Amendment provides no protection to bank

<sup>&</sup>lt;sup>63</sup> See Christopher Slobogin, *Government Data Mining and the Fourth Amendment*, 75 U. CHI. L. REV. 317, 319 (2008) (discussing various data mining activities by federal agencies).

<sup>&</sup>lt;sup>64</sup> See Stuntz, Pathological, supra note 15, at 533–34 n.118 (2001); Solove, Digital Dossiers, supra note 35, at 1158.

<sup>&</sup>lt;sup>65</sup> See, e.g., Simmons, Broader Perspective, supra note 32, 541–42.

<sup>&</sup>lt;sup>66</sup> See, e.g., Donald A. Dripps, Criminal Procedure, Footnote Four, and the Theory of Public Choice; or, Why Don't Legislatures Give a Damn About the Rights of the Accused?, 44 SYRACUSE L. REV. 1079, 1079–81 (1993) [hereinafter Dripps, Criminal Procedure] (arguing that legislatures are "indifferent or hostile to the rights of the accused" to secure reelection in majoritarian politics); see generally JOHN HART ELY, DEMOCRACY AND DISTRUST 172–73 (1980) (arguing for a democratic process-based approach to Fourth Amendment law as a prophylactic against unequal treatment); United States v. Carolene Products Co., 304 U.S. 144, 153 n.4 (1938) ("[P]rejudice against discrete and insular minorities may be a special condition, which tends seriously to curtail the operation of those political processes ordinarily to be relied upon to protect minorities, and which may call for a correspondingly more searching judicial inquiry.").

<sup>&</sup>lt;sup>67</sup> See, e.g., Dripps, Criminal Procedure, supra note 66, at 1079–81.

<sup>&</sup>lt;sup>68</sup> See 1 LAFAVE ET AL., CRIMINAL PROCEDURE § 2.01 (2d ed. 1999) (arguing that the courts are wellequipped to regulate criminal procedure rules because they understand the criminal process and are not subject to political pressures to deny basic liberties); ELY, *supra* note 66 at 172–73.

records, <sup>69</sup> phone records <sup>70</sup> or email, <sup>71</sup> and does not protect against closed circuit television systems, <sup>72</sup> data mining of transactional records, <sup>73</sup> electronic databases, <sup>74</sup> or facial recognition software. <sup>75</sup> They argue that courts should extend Fourth Amendment protection to new technologies, such as email and public video surveillance. <sup>76</sup> Some even want to extend Fourth Amendment protection to anonymity and friendship. <sup>77</sup> In short, they argue that "courts should be very active in shaping new criminal procedure rules," <sup>78</sup> lest they "abdicate all responsibility for the rules of high-technology surveillance."

On the other side of the spectrum, Professor Orin Kerr has led a lonely fight to defend the legal status quo. He argues that courts lack the institutional competence to protect privacy against new technologies for three main reasons. First, courts do not sufficiently understand new technologies due to their lack of technological expertise and the limited records presented by the parties.<sup>80</sup> Second, judicially created rules cannot adapt to technological change and, as a result, quickly become outdated.<sup>81</sup> Third, legislatures value privacy highly since, unlike the rights of an individual criminal suspect, it is a public good.<sup>82</sup> As a result, they have passed many comprehensive, flexible statutes protecting privacy,<sup>83</sup> such as the Electronic Privacy Communications Act (ECPA)<sup>84</sup> and

<sup>72</sup> See SLOBOGIN, PRIVACY AT RISK, supra note 42, at 89–90.

<sup>73</sup> See id. at 139–80.

<sup>74</sup> See Murphy, Paradigms, supra note 43, at 1336–40.

<sup>76</sup> See, e.g., Mulligan, *Reasonable Expectations, supra* note 13, 1586–93; Slobogin, *Camera, supra* note 13 (arguing courts should interpret the Fourth Amendment to recognize the right to be free from video surveillance in public, and suggesting courts should set up guidelines for the use of such surveillance).

<sup>77</sup> See Sherry F. Colb, What Is a Search? Two Conceptual Flaws in Fourth Amendment Doctrine and Some Hints of a Remedy, 55 STAN. L. REV. 119, 134–40 (2002).

<sup>78</sup> Solove, *Coexistence*, *supra* note 6, at 776.

<sup>80</sup> See Kerr, New Technologies, supra note 14, at 875–82; Kerr, Congress, supra note 14, at 785–86.

<sup>81</sup> See Kerr, New Technologies, supra note 14, at 859 ("Judicially created rules . . . cannot change quickly and cannot test various regulatory approaches. As a result, judicially created rules regulating government investigations tend to become quickly outdated or uncertain as technology changes.").

<sup>82</sup> The key aspects of public goods are that they are non-excludable in access and non-rival in consumption. Privacy is a public good since my enjoying privacy in no way diminishes your ability to enjoy your privacy. *See, e.g.*, HUGH GRAVELLE & RAY REES, MICROECONOMICS 516 (3d ed. 2004) ("The defining characteristic of a public good is that consumption of it by one individual does not actually or potentially reduce the amount available to be consumed by another individual.").

<sup>83</sup> See Kerr, New Technologies, supra note 14, at 850–52; Solove, Coexistence, supra note 6, at 753–60.

<sup>&</sup>lt;sup>69</sup> See United States v. Miller, 425 U.S. 435 (1976).

<sup>&</sup>lt;sup>70</sup> See Smith v. Maryland, 442 U.S. 735 (1979).

<sup>&</sup>lt;sup>71</sup> See Solove, *Reconstructing, supra* note 15, at 1281; Solove, *Coexistence, supra* note 6, at 769; Kerr, *New Technologies, supra* note 14, at 869 ("[N]o Article III court at any level has decided whether an Internet user has a reasonable expectation of privacy in their [sic] e-mails stored with an Internet service provider; whether encryption creates a reasonable expectation of privacy; or what the Fourth Amendment implications of . . . Internet surveillance . . . might be."); *but see* United States v. Warshak, 631 F.3d 266, 288 (6th Cir. 2010) (holding that "a subscriber enjoys a reasonable expectation of privacy in the contents of emails").

<sup>&</sup>lt;sup>75</sup> See Simmons, *Technology-Enhanced*, *supra* note 55, at 729–30 & n.58.

<sup>&</sup>lt;sup>79</sup> Swire, *Long Live*, *supra* note 15, at 924.

<sup>&</sup>lt;sup>84</sup> Pub. L. 99–508, 1100 Stat. 1848 (1986) (codified as amended in scattered sections of 18 U.S.C.).

the Computer Fraud and Abuse Act. <sup>85</sup> Moreover, legislators can consult with "technologists" and "technology-savvy advisors" in an "open and interactive" process while crafting rules, and "can update them frequently as technology changes."<sup>86</sup> By engaging in proactive instead of reactive rulemaking, Kerr argues, legislatures provide both more certainty and flexibility than courts.<sup>87</sup>

Mainstream commentators are quick to point out that certainty and flexibility inherently conflict.<sup>88</sup> They contend that statutes are no better at keeping up with technological change, noting the many privacy gaps in existing statutory schemes, such as cell phones, video surveillance, and emails on third party internet service providers (ISPs).<sup>89</sup> As political scientists demonstrate, this necessarily flows from the structure of the legislative process. In instances of divided government, it is unlikely that the House, Senate and President will able to agree on legislative priorities.<sup>90</sup> Moreover, federal law enforcement agencies are part of the executive branch, so legislation to curtail their powers will likely draw a presidential veto.<sup>91</sup> Even in instances of unified government, a filibuster by the minority party in the Senate, <sup>92</sup> or an ideological divide within a party, can result in legislative gridlock as well.<sup>93</sup> It is unsurprising, then, that in the past twenty years between seventy-eight and ninety-seven percent of bills "died in committee" each year.<sup>94</sup> In 1993, a year of unified government, the House passed just two percent of all bills introduced.<sup>95</sup> Given such legislative torpidity, it is unlikely that privacy statutes will be able to keep up with the rapid pace of technological change.

Scholars also argue that even when legislatures do pass criminal procedure statutes, these laws will not adequately protect privacy, since legislators are susceptible to political lobbying by law enforcement interests for greater surveillance powers.<sup>96</sup> Public

<sup>&</sup>lt;sup>85</sup> 18 U.S.C. §§ 1030 et seq. (2006) (creating criminal and civil penalties for unauthorized access to computers).

<sup>&</sup>lt;sup>86</sup> Kerr, Congress, supra note 14, at 784; Kerr, New Technologies, supra note 14, at 807.

<sup>&</sup>lt;sup>87</sup> See Kerr, New Technologies, supra note 14, at 806, 859–60, 872.

<sup>&</sup>lt;sup>88</sup> See Solove, Coexistence, supra note 6, at 767.

<sup>&</sup>lt;sup>89</sup> See id. at 763, 769; Solove, *Reconstructing*, *supra* note 15, at 1281; COMPUTER CRIME, *supra* note 11, § III.B.

<sup>&</sup>lt;sup>90</sup> See, e.g., Samuel Kernell, Facing an Opposition Congress: The President's Strategic Circumstance, in THE POLITICS OF DIVIDED GOVERNMENT 97–112 (Gary W. Cox. & Samuel Kernell, eds., 1991); William Howell et al., Divided Government and the Legislative Productivity of Congress, 1945-94, 25 LEGIS. STUD. Q. 285, 285 (2000) (finding that "periods of divided government depress the production of landmark legislation by about 30%"). See also Naftali Bendavid & Janet Hook, Congress's New Lineup Has More Partisans on Each Side, WALL ST. J., Nov. 4, 2010, at A5 (noting that divided government "could be a recipe for legislative gridlock").

<sup>&</sup>lt;sup>91</sup> See Orin S. Kerr, Technology, Privacy, and the Courts, 102 MICH. L. REV. 933, 939–40 (2004).

<sup>&</sup>lt;sup>92</sup> See David R. Jones, Party Polarization and Legislative Gridlock, 54 Pol. Res. Q. 125, 127 (Mar. 2001).

<sup>&</sup>lt;sup>93</sup> See Sarah A. Binder, *The Dynamics of Legislative Gridlock: 1947-96*, 93 AM. POL. SCI. REV. 519, 519 (1999) (arguing that "intrabranch conflict—perhaps more than interbranch rivalry—is critical in shaping deadlock in American politics").

<sup>&</sup>lt;sup>94</sup> CONGRESSIONAL BILLS PROJECT: TRENDS IN BILL SPONSORSHIP ACTIVITY, http://www.congressionalbills.org/trends.html (last modified 2004).

<sup>&</sup>lt;sup>95</sup> See id.

<sup>&</sup>lt;sup>96</sup> See Swire, Long Live, supra note 15, at 914; Stuntz, Pathological, supra note 15, at 534; Dripps, Criminal Procedure, supra note 66, at 1079–81.

choice theory posits that legislators act to redistribute resources from politically ineffective groups (which are typically large and heterogeneous) to politically effective groups (typically small and homogenous) in order to secure support for reelection.<sup>97</sup> Whereas privacy is a public good that will be enjoyed by the dispersed population,<sup>98</sup> law enforcement has a "concentrated interest" in reducing its regulation and increasing its resources.<sup>99</sup> In this "classic public choice problem," the concentrated law enforcement agency is able to marshal resources to lobby legislators for more power at the expense of the public's privacy because of its lower organization costs and more concentrated benefits.<sup>100</sup> Kerr criticizes this view, claiming public choice theory does not apply to criminal procedure since there are no economic "rents" for law enforcement interests to capture.<sup>101</sup> Yet this conception of economic rents is far too cramped. Larger budgets and more administrative power are private gains to law enforcement that do not flow to the rest of the society.<sup>102</sup> Placing orders with companies that produce surveillance equipment can also help police secure lucrative private sector employment later.<sup>103</sup> Moreover, security is also a public good, so Kerr concedes that law enforcement can argue for privacy reductions with "myopic claims of the public interest in solving crimes ....."<sup>104</sup> As a result, law enforcement interests are often highly influential among legislators.<sup>105</sup> Perhaps the best evidence of law enforcement lobbying is in the federal privacy statutes themselves: they nearly all lack exclusionary rules, which, as even Kerr admits, renders them unable to deter privacy violations by law enforcement.<sup>106</sup>

Lastly, although commentators claim courts can use experts and amici briefs to understand new technologies,<sup>107</sup> they are more persuasive when criticizing legislatures

<sup>&</sup>lt;sup>97</sup> See MANCUR OLSON, THE LOGIC OF COLLECTIVE ACTION: PUBLIC GOODS AND THE THEORY OF GROUPS (1965) (explaining advantages that concentrated interests, such as regulated industries, have over diffuse interests in the political process); see generally George Stigler, *The Theory of Economic Regulation*, 2 BELL J. ECON. & MGMT. SCI. 1 (1971); Gordon Tullock, *Some Problems of Majority Voting*, 67 J. POL. ECON. 571 (1959).

<sup>&</sup>lt;sup>98</sup> See Kerr, New Technologies, supra note 14, at 884–85.

<sup>&</sup>lt;sup>99</sup> Swire, *Long Live*, *supra* note 15, at 914.

<sup>&</sup>lt;sup>100</sup> *Id. See also* Peter P. Swire, *The System of Foreign Intelligence Surveillance Law*, 72 GEO. WASH. L. REV. 1306 (2004) (arguing that the expertise and institutional staffing of federal law enforcement enable strong lobbying against law enforcement regulations).

<sup>&</sup>lt;sup>101</sup> See Kerr, New Technologies, supra note 14, at 884–85.

<sup>&</sup>lt;sup>102</sup> See Stuntz, Pathological, supra note 15, at 534 (2001) ("If police and prosecutors want some new criminal prohibition, they likely want it because it would advance their goals.").

<sup>&</sup>lt;sup>103</sup> See, e.g., Eric Lipton, Former Antiterror Officials Find Industry Pay Better, N.Y. TIMES, June 18, 2006, http://www.nytimes.com/2006/06/18/washington/18lobby.html?fta=y# [hereinafter Lipton, Antiterror].

<sup>&</sup>lt;sup>104</sup> Kerr, New Technologies, supra note 14, at 885.

<sup>&</sup>lt;sup>105</sup> See Dripps, Criminal Procedure, supra note 66, at 1079–81 (1993); Kerr, New Technologies, supra note 14, at 885; Stuntz, Pathological, supra note 15, at 534.

<sup>&</sup>lt;sup>106</sup> See Solove, Coexistence, supra note 6, at 763 ("[T]here is no exclusionary rule to protect e-mail under the Wiretap Act, and the Stored Communications Act and Pen Register Act both lack an exclusionary rule."); Orin S. Kerr, Lifting the "Fog" of Internet Surveillance: How a Suppression Remedy Would Change Computer Crime Law, 54 HASTINGS L.J. 805, 807 (2003) ("Congress should restructure the remedies scheme of Internet surveillance law by adding a statutory suppression remedy for violations of the Internet surveillance statutes.").

<sup>&</sup>lt;sup>107</sup> See Solove, Coexistence, supra note 6, at 772.

than defending courts.<sup>108</sup> The oral arguments in *City of Ontario v. Quon*,<sup>109</sup> a recent Fourth Amendment decision by the Supreme Court, provide an excellent example.<sup>110</sup> Chief Justice Roberts began the judicial confusion by wondering, "[W]hat is the difference between a pager and e-mail?"<sup>111</sup> He, along with Justice Kennedy, then admitted that they thought simultaneous text messages might jam one another.<sup>112</sup> Later, Justice Scalia and Chief Justice Roberts expressed astonishment that text messages travel through communications companies and not directly between mobile devices.<sup>113</sup> This led Justice Scalia to wonder if text messages were printable.<sup>114</sup> Justice Alito entered the fray shortly thereafter by asking whether text messages can be deleted.<sup>115</sup> This question was perhaps more embarrassing for the lawyer who did not know the answer.<sup>116</sup> Rather than produce a clear winner, the ongoing academic debate demonstrates the inability of both courts and legislatures to adequately protect privacy from constantly improving government surveillance.

#### **B.** Law Enforcement and Privacy Regulation

Largely ignored by the academic debate is law enforcement agencies themselves. Unlike courts and legislatures, law enforcement agencies will be able to understand and keep up with new surveillance technologies, since they often design them in-house and keep the underlying code secret.<sup>117</sup> Even when law enforcement agencies purchase technology from outside sources, they make sure to understand it and its privacy implications.<sup>118</sup> As a result, new surveillance technologies can be regulated by internal

<sup>115</sup> See id. at 51.

<sup>&</sup>lt;sup>108</sup> See Kerr, New Technologies, supra note 14, at 878–81 (describing criminal procedure cases where courts misunderstood technology, causing them to reach the wrong result); Kerr, *Congress, supra* note 14, at 785–86.

<sup>&</sup>lt;sup>109</sup> 130 S. Ct. 2619 (2010).

<sup>&</sup>lt;sup>110</sup> It is worth noting that *Quon* is not a traditional Fourth Amendment case. Rather, it is a civil suit under both § 1983 and the Stored Communications Act. *See id.* at 2626. However, since much of the analysis concerns the plaintiff's reasonable expectations of privacy, I will refer to it simply as a Fourth Amendment case.

<sup>&</sup>lt;sup>111</sup> Transcript of Oral Argument at 29, City of Ontario v. Quon, 130 S. Ct. 2619 (2010) (No. 08-1332).

<sup>&</sup>lt;sup>112</sup> See id. at 44.

<sup>&</sup>lt;sup>113</sup> See id. at 48–50 ("I thought, you know, you push a button; it goes right to the other thing.").

<sup>&</sup>lt;sup>114</sup> See id. at 49 ("Can you print these things out? Could Quon print these -- these spicy conservations out and circulate them among his buddies?").

<sup>&</sup>lt;sup>116</sup> See id. at 53 ("Honestly I'm not -- that's not in the record, and the -- how that pager works as far as deleting, I couldn't be certain that it would be deleted forever.").

<sup>&</sup>lt;sup>117</sup> See, e.g., Kerr, Big Brother, supra note 55, at 654 & n.232 (noting that the FBI's Carnivore software is installed as a "sealed black box"); Ellen Nakashima, *Cybersecurity Plan to Involve NSA*, *Telecoms Pilot Program to Monitor Private-Sector Networks*, WASH. POST, July 3, 2009, at A1, http://www.washingtonpost.com/wp-dyn/content/article/2009/07/02/AR2009070202771.html (noting the secrecy surrounding the NSA's "Einstein 3" network security software).

<sup>&</sup>lt;sup>118</sup> See, e.g., E-Government Act of 2002, Pub L. No. 107-347, 116 Stat. 2899 (codified at 44 U.S.C. § 101 (2006)) (requiring federal agencies to conduct privacy impact assessments before "developing or procuring information technology"); CITY OF BALTIMORE, CITIWATCH AT THE ATRIUM POLICIES AND PROCEDURES MANUAL (2008) (describing procedures for a network of hundreds of all-weather fixed surveillance cameras).

police guidelines the moment they are put into practice.<sup>119</sup> These guidelines can be updated in response to changing technology or uses, as well as codified into formal regulations.<sup>120</sup> Unlike courts and legislatures, law enforcement agencies can adequately protect privacy in the face of changing technology and improving surveillance.

But why would they? While privacy is a public good enjoyed by the diffuse public,<sup>121</sup> law enforcement agencies are primarily interested in seeking prosecutions and, more importantly, convictions.<sup>122</sup> This is surely easier with advanced surveillance technology. Developing or procuring new technologies can also enable police and prosecutors to obtain bigger budgets,<sup>123</sup> or secure lucrative private sector employment.<sup>124</sup> While elected District Attorneys may face some political pressure to protect privacy interests, this is likely to be limited since much law enforcement activity is not visible to the public, the public wants convictions and most law enforcement officers are not elected.<sup>125</sup> Although federal law enforcement agencies, most notably the FBI, have adopted some privacy regulations,<sup>126</sup> they have only done so in the wake of highly publicized scandals with intense public pressure.<sup>127</sup> Moreover, most federal law enforcement activity is not visible to the public, and the vast majority of policing is conducted by state and local authorities who face political pressure to get convictions.<sup>128</sup> Thus, trusting law enforcement agencies to hold the line on privacy protection is to give the wolf the keys to the henhouse. It is a cruel twist of irony that the bodies of government best able to act proactively and rapidly in response to surveillance technology have little incentive to do so.

<sup>&</sup>lt;sup>119</sup> See, e.g., MADISON POLICE DEPARTMENT., CITY OF MADISON, MADISON POLICE POLICY MANUAL, *available at* https://www.ci.madison.wi.us/police/documents/PolicyandProcedureManual.pdf (describing procedures for videotaping demonstrations, in-car video capture and storing video evidence); *see generally* Jeremy Brown, Note, *Pan, Tilt, Zoom: Regulating the Use of Video Surveillance of Public Places*, 23 BERKELEY TECH. L.J. 755, 755–56 (2008) (arguing for internal police regulation of video surveillance).

<sup>&</sup>lt;sup>120</sup> See Administrative Procedure Act of 1946, Pub. L. 79-404, 60 Stat. 237 (codified as amended at 5 U.S.C. § 500, *et seq.* (2006)) (setting out federal administrative agency rulemaking procedures and requirements).

<sup>&</sup>lt;sup>121</sup> See Kerr, New Technologies, supra note 14, at 884–85.

<sup>&</sup>lt;sup>122</sup> See Stuntz, Pathological, supra note 15, at 534 (arguing that law enforcement agencies wish to "prosecute the range of cases" and "win the cases they bring").

<sup>&</sup>lt;sup>123</sup> See id.

<sup>&</sup>lt;sup>124</sup> See e.g., Lipton, Antiterror, supra note 103.

<sup>&</sup>lt;sup>125</sup> See Stuntz, Pathological, supra note 15, at 533–35 & n.118.

<sup>&</sup>lt;sup>126</sup> See, e.g., The Attorney General's Guidelines on General Crimes, Racketeering Enterprise and Terrorism Enterprise Investigations § VI (May 30, 2002).

<sup>&</sup>lt;sup>127</sup> See Senate Select Comm. to Study Government Operations with Respect to Intelligence Activities, Final Report: Intelligence Activities and the Rights of Americans, S. Rep. No. 755, 94th Cong., 2d Sess. bk. III, at 5–15 (Apr. 26, 1976), *available at* http://www.intelligence.senate.gov/pdfs94th/94755\_II.pdf (reporting extensive abuses by the FBI's COINTELPRO "to 'disrupt' groups and 'neutralize' individuals deemed to be threats to domestic security" including civil rights groups and leaders).

<sup>&</sup>lt;sup>128</sup> See Stuntz, Pathological, supra note 15, at 544 & n.153 ("[F]ederal prosecutions are less than five percent of total prosecutions.").

#### **IV. BRIGHT LINE RULES**

This Section argues that, given the institutional limitations of government, bright line Fourth Amendment rules are the only way to adequately protect privacy against new technologies. It then sets out rules protecting homes and the human body as core areas of privacy that have received longstanding legal protection. It concludes by analyzing the policy implications of these rules and their impacts on technological innovation.

#### A. Bright Line Rules and Technology

For decades, legal thinkers have debated the merits of rules versus standards in the law.<sup>129</sup> Although Fourth Amendment law has traditionally relied on a totality-of-thecircumstances approach,<sup>130</sup> lately it has taken a formalist turn.<sup>131</sup> The reasons for this are threefold: certainty, scarce judicial resources, and technology. It is indisputable that bright-line legal rules provide great certainty to those regulated.<sup>132</sup> In the Fourth Amendment context, such rules enable police to know precisely how far they can intrude while conducting an investigation and, importantly, where they cannot intrude.<sup>133</sup> Clearly delineated rules can also prevent the demoralization of police and prosecutors, since evidence will not be suppressed due to Fourth Amendment standards decided *post hoc*;<sup>134</sup> improved morale may well result in better police protection.<sup>135</sup> Additionally, since the

<sup>&</sup>lt;sup>129</sup> Compare Frederick Schauer, Formalism, 97 YALE L.J. 509 (1988) (arguing in favor of formal legal rules), and Robert F. Nagel, Liberals and Balancing, 63 U. COLO. L. REV. 319 (1992) (arguing that balancing favors liberal, activist, academic lawyers), and Ernest J. Weinrib, Legal Formalism: On the Immanent Rationality of Law, 97 YALE L.J. 949 (1988) (defending legal rules under Kantian philosophy), and FRIEDRICH A. HAYEK, THE CONSTITUTION OF LIBERTY 148–61 (1960) (arguing that standards are contrary to the "rule of law," which is essential to upholding liberty), with Peter L. Strauss, Was There a Baby in the Bathwater? A Comment on the Supreme Court's Legislative Veto Decision, 1983 DUKE L.J. 789, 818 & n.105 (criticizing legal rules as woodenly "formalistic"), and Lynne Henderson, Authoritarianism and the Rule of Law, 66 IND. L.J. 379 (1991) (criticizing legal rules as authoritarian), and Frank I. Michelman, The Supreme Court, 1985 Term—Forward: Traces of Self-Government, 100 HARV. L. REV. 4, 17 n.68, 33–36 (1986) (arguing that balancing tests reflective a feminist perspective).

<sup>&</sup>lt;sup>130</sup> See, e.g., Minnesota v. Murphy, 465 U.S. 420 (1984) (applying a totality-of-the-circumstances test for whether a defendant was in custody); Illinois v. Gates, 462 U.S. 213 (1983) (applying a totality-of-the-circumstances test for whether an informant's tip constitutes probable cause); see also Terry v. Ohio, 392 U.S. 1 (1968) (applying a reasonableness test for whether police street encounters trigger Fourth Amendment protection).

<sup>&</sup>lt;sup>131</sup> See, e.g., Thornton v. United States, 541 U.S. 615, 622–23 (2004) (noting the "need for a clear rule, readily understood by police officers"); Atwater v. City of Lago Vista, 532 U.S. 318, 347 (2001) ("[W]e have traditionally recognized that a responsible Fourth Amendment balance is not well served by standards requiring sensitive, case-by-case determinations of government need, lest every discretionary judgment in the field be converted into an occasion for constitutional review.").

<sup>&</sup>lt;sup>132</sup> See Antonin Scalia, *The Rule of Law as a Law of Rules*, 56 U. CHI. L. REV. 1175, 1183–85 (1989); FREDERICK SCHAUER, PLAYING BY THE RULES: A PHILOSOPHICAL EXAMINATION OF RULE-BASED DECISION-MAKING IN LAW AND IN LIFE 96–99 (1991) (arguing for legal rules over standards to ensure reliability, predictability and certainty).

<sup>&</sup>lt;sup>133</sup> See, e.g., Kyllo v. United States, 533 U.S. 28, 40 (2001) ("[T]he Fourth Amendment draws a firm line at the entrance to the house.") (quoting Payton v. New York, 445 U.S. 573, 590 (1980)).

<sup>&</sup>lt;sup>134</sup> See Randy E. Barnett, Resolving the Dilemma of the Exclusionary Rule: An Application of Restitutive Principles of Justice, 32 EMORY L.J. 937, 966 (1983).

<sup>&</sup>lt;sup>135</sup> See George L. Kelling, *Police Accountability—A Better Way*, CITY J., Winter 1993, http://www.city-journal.org/article01.php?aid=1145.

Warren Court incorporated the exclusionary rule against the states,<sup>136</sup> courts have been inundated with Fourth Amendment cases.<sup>137</sup> Legal rules can be an efficient way to quickly adjudicate Fourth Amendment issues in the face of scarce judicial resources.<sup>138</sup> Finally, and most importantly for purposes of this Article, since new technologies can intrude on citizens' privacy,<sup>139</sup> bright-line rules can limit the "power of technology to shrink the realm of guaranteed privacy."<sup>140</sup>

Despite their advantages, bright-line rules entail significant legitimacy costs. First and foremost, they are inherently inflexible, which can lead courts to incorrect results in particular cases.<sup>141</sup> Incorrect or unjust results risk severely damaging the institutional credibility of the judiciary.<sup>142</sup> Second, bright-line rulemaking is legislative in nature and, therefore, risks damaging the Court's legitimacy.<sup>143</sup> In order to ameliorate these costs, courts should only engage in bright-line rulemaking for uncontroversial areas that have traditionally received the highest privacy protections. "[T]he Court has given weight to such factors as the intention of the Framers of the Fourth Amendment, the uses to which the individual has put a location, and our societal understanding that certain areas deserve the most scrupulous protection from government invasion."<sup>144</sup> In addition to limiting themselves to traditional areas of privacy protection, courts should only adopt bright-line rules for activities that are recurring in nature, clearly understandable, and affected by rapid technological changes. The event must be recurring since developing rules entails upfront costs of scarce judicial resources, whereas standards incur costs in enforcement: so efficiency favors only promulgating rules for frequent, recurring events.<sup>145</sup> Judges will

 <sup>&</sup>lt;sup>136</sup> See Mapp v. Ohio, 367 U.S. 643 (1961).
 <sup>137</sup> See Donald A. Dripps, *The Fourth Amendment and the Fallacy of Composition: Determinacy* Versus Legitimacy in a Regime of Bright-Line Rules, 74 MISS. L.J. 341, 349-50 (2005) ("[T]he sheer scale of activity regulated by Fourth Amendment jurisprudence grew overnight by, roughly speaking, an order of magnitude."); Peter F. Nardulli, The Societal Cost of the Exclusionary Rule: An Empirical Assessment, 1983 AM. B. FOUND. RES. J. 595, 595-96 (finding that motions to suppress illegally seized physical evidence are filed in 5 percent of criminals cases and that defendants win 17 percent of these motions).

<sup>&</sup>lt;sup>138</sup> See RICHARD A. POSNER, THE PROBLEMS OF JURISPRUDENCE 53, 143 (1990); Louis Kaplow, Rules Versus Standards: An Economic Analysis, 2 DUKE L.J. 557, 572 (1992); see also Richard Epstein, A Theory of Strict Liability, 2 J. LEGAL STUD. 151 (1973) (arguing that formal rules can eliminate the need for litigation).

<sup>&</sup>lt;sup>139</sup> See Kyllo, 533 U.S. at 33–34 ("It would be foolish to contend that the degree of privacy secured to citizens by the Fourth Amendment has been entirely unaffected by the advance of technology."); see also supra notes 17–65 and accompanying text.

<sup>&</sup>lt;sup>140</sup> Kyllo, 533 U.S. at 34. See generally Anthony Amsterdam, Perspectives on the Fourth Amendment, 58 MINN. L. REV. 349, 399 (1974) (arguing that the Framers intended the Fourth Amendment to grow over time).

<sup>&</sup>lt;sup>141</sup> See Strauss, supra note 129, at 789–92; Harold H. Bruff, Legislative Formality, Administrative Rationality, 63 TEX. L. REV. 207, 212-13 (1984).

<sup>&</sup>lt;sup>142</sup> See, e.g., Christopher E. Smith, Bright-Line Rules and the Supreme Court: The Tension Between Clarity in Legal Doctrine and Justices' Policy Preferences, 16 OHIO N.U. L. REV. 119, 123 (1989) ("[T]he Supreme Court is still confronted with cases in which the maintenance of bright line rules conflicts with desirable policies or simple justice.").

<sup>&</sup>lt;sup>143</sup> See Kyllo, 533 U.S. at 51 (Stevens, J., dissenting) ("It would be far wiser to give legislators an unimpeded opportunity to grapple with these emerging issuers rather than to shackle them with prematurely devised constitutional constraints."); Dripps, supra note 137, at 352-54.

<sup>&</sup>lt;sup>144</sup> Oliver v. United States, 466 U.S. 170, 178 (1984).

<sup>&</sup>lt;sup>145</sup> See Kaplow, supra note 138, at 572, 577.

only be able to develop such rules if they can fully understand the activities at issue.<sup>146</sup> Yet, given the legitimacy costs of bright line rules, the Court should only invoke this power when "[t]o withdraw protection of this minimum expectation would be to permit police technology to erode the privacy guaranteed by the Fourth Amendment," leaving citizens "at the mercy of advancing technology."<sup>147</sup> In areas of rapid technological change, the inability (or unwillingness) of other areas of government to adequately protect privacy mollify any legitimacy costs rulemaking might entail.<sup>148</sup>

Although technological change may diminish privacy in all areas of life,<sup>149</sup> courts should proceed with caution given the institutional and legitimacy limitations they face. While this may not provide protection from all areas into which the government may intrude, this Article seeks to set out a framework of bright-line Fourth Amendment rules for core areas of privacy that can later be expanded. There are two areas that satisfy all these requirements: homes and human bodies. The text of the Fourth Amendment explicitly refers to both "houses" and "persons,"<sup>150</sup> and searches involving homes and bodies are mainstays of criminal investigations and have been for years.<sup>151</sup> Since all judges have bodies and live somewhere, they surely understand the privacy and security interests at stake. These interests are constantly being changed as police develop technology that can see into homes<sup>152</sup> and even bodies.<sup>153</sup> Therefore, courts must proactively protect both homes and bodies with bright-line rules to ensure that their traditional Fourth Amendment protections do not become increasingly empty due to technological advancements.

Conversely, other potential candidates for bright-line protection, most notably automobiles and email, do not satisfy all the necessary criteria. Although automobile searches are recurring and easily understandable, a rule protecting the interior of a car breaks from decades of case law. The Supreme Court has consistently held that a police officer with probable cause has nearly free reign to search a car and all containers therein under the "automobile exception" to the warrant requirement, <sup>154</sup> so long as the car is mobile.<sup>155</sup> Additionally, the technology required to search the interior of a car has not

<sup>&</sup>lt;sup>146</sup> See Kerr, New Technologies, supra note 14, at 863–64.

<sup>&</sup>lt;sup>147</sup> *Kyllo*, 533 U.S. at 28.

<sup>&</sup>lt;sup>148</sup> See supra notes 66–128 and accompanying text.

<sup>&</sup>lt;sup>149</sup> See supra notes 17–65 and accompanying text.

<sup>&</sup>lt;sup>150</sup> U.S. CONST. amend. IV.

<sup>&</sup>lt;sup>151</sup> See, e.g., Mapp v. Ohio, 367 U.S. 643 (1961) (requiring a search warrant for police to enter and search a house); Kyllo v. United States, 533 U.S. 27 (2001) (requiring a search warrant for police to use a thermal imaging device on a house); Schmerber v. California, 384 U.S. 757 (1966) (using a balancing test to determine whether the Fourth Amendment applies to blood tests); Winston v. Lee, 470 U.S. 753 (1985) (using a heightened balancing test to determine whether the Fourth Amendment applies to surgeries).

<sup>&</sup>lt;sup>152</sup> See United States v. Karo, 468 U.S. 705, 714–15 (1984); Kyllo, 533 U.S. at 28.

<sup>&</sup>lt;sup>153</sup> See supra note 1 and accompanying text.

<sup>&</sup>lt;sup>154</sup> See Carroll v. United States, 267 U.S. 132 (1925) (upholding warrantless searches for cars); United States v. Ross, 456 U.S. 798 (1982) (upholding warrantless searches for closed containers within a car); California v. Acevedo, 500 U.S. 565 (1991) (upholding warrantless searches for closed containers within a car with probable cause to search the entire car); Wyoming v. Houghton, 526 U.S. 295 (1999) (upholding warrantless searches for all belonging in a car regardless of ownership).

<sup>&</sup>lt;sup>155</sup> See United States v. Chadwick, 433 U.S. 1 (1977) (holding that items in the trunk of a non-moving car are protected by the Fourth Amendment).

significantly changed in decades.<sup>156</sup> However, recent advances in GPS technology enable police to electronically track the location of automobiles.<sup>157</sup> This has provoked a circuit split on whether around the clock GPS surveillance of automobiles triggers Fourth Amendment protection.<sup>158</sup> Since the legal status of GPS tracking is currently in flux and automobiles have traditionally received very little Fourth Amendment protection, the exterior location of an automobile is not yet deserving of bright line rule protection. Nonetheless, it is a very promising future candidate.

Like automobile searches email is recurring in nature, but, unlike automobiles, it is subject to rapid technological change.<sup>159</sup> It can also be analogized to paper mail, whose contents have received strong Fourth Amendment protection for centuries,<sup>160</sup> and can be considered "effects" within the text of the Fourth Amendment.<sup>161</sup> Nonetheless, in cases involving ISPs, servers and encryption, "judges struggle to understand even the basic facts of such technologies . . . . "<sup>162</sup> For example, a federal district court ordered a police officer to be physically present to supervise a search of an ISP, erroneously thinking this would protect privacy despite the officer's lack of technological expertise.<sup>163</sup> Similarly, in the first case to apply the Fourth Amendment to email, the Court of Appeals for the Armed Forces drew a distinction between America Online (AOL) email and "Internet" email, as if AOL were not part of the internet.<sup>164</sup> Judges make such mistakes because they analogize from the physical to the digital, forcing them to rely on "questionable metaphors to aid their comprehension," without knowing "whether those metaphors are accurate, or whether the facts before them are typical or atypical . . . . "<sup>165</sup> In spite of these institutional constraints, one circuit has granted Fourth Amendment protection to email.<sup>166</sup> As the social importance of email and other electronic communications grow, courts will likely have to extend Fourth Amendment protections to them.<sup>167</sup> In the meantime, however, courts should avoid creating bright-line rules,

<sup>&</sup>lt;sup>156</sup> In light of this, the Court has developed a "remarkably detailed set of rules that govern every stage of traffic stops." Kerr, *New Technologies, supra* note 14, at 862–63.

<sup>&</sup>lt;sup>157</sup> See United States v. Knotts 460 U.S. 276, 285 (1983).

<sup>&</sup>lt;sup>158</sup> Compare United States v. Maynard, 615 F.3d 544, 555–68 (D.C. Cir. 2010) (finding that twenty-four hour GPS surveillance for four weeks is a search within the meaning of the Fourth Amendment), *with* United States v. Pineda-Morena, 591 F.3d 1212, 1216–17 (9th Cir. 2010) (finding that using a GPS tracking device to monitor movements for a prolonged period of time is not a search within the meaning of the Fourth Amendment), *and* United States v. Marquez, 605 F.3d 604, 609–10 (8th Cir. 2010) (same), *and* United States v. Garcia, 474 F.3d 994, 996–97 (7th Cir. 2007) (same).

<sup>&</sup>lt;sup>159</sup> See supra notes 17–31 and accompanying text.

<sup>&</sup>lt;sup>160</sup> See Ex parte Jackson, 96 U.S. 727, 733 (1877).

<sup>&</sup>lt;sup>161</sup> See United States v. Jacobsen, 466 U.S. 109, 114 (1984).

<sup>&</sup>lt;sup>162</sup> See Kerr, New Technologies, supra note 14, at 875–76.

<sup>&</sup>lt;sup>163</sup> See Kerr, New Technologies, supra note 14, at 877–79 (describing United States v. Bach, No. CRIM.01-221, 2001 WL 1690055 (D. Minn. Dec. 14, 2001), rev'd, 310 F.3d 1063 (8th Cir. 2002)).

<sup>&</sup>lt;sup>164</sup> See Kerr, Congress, supra note 14, at 785–86 (describing United States v. Maxwell, 45 M.J. 406 (C.A.A.F. 1996)).

<sup>&</sup>lt;sup>165</sup> Kerr, New Technologies, supra note 14, at 875–76.

<sup>&</sup>lt;sup>166</sup> See United States v. Warshak, 631 F.3d 266, 288 (6th Cir. 2010) (holding that "a subscriber enjoys a reasonable expectation of privacy in the contents of emails").

<sup>&</sup>lt;sup>167</sup> See, e.g., Katherine J. Strandburg, *Home, Home on the Web and Other Fourth Amendment Implications of Technosocial Change*, 70 MD. L. REV. 614, 627 (2011) (analogizing from telephone wiretaps in *Katz* to email based on social use).

since judges' failure to understand the relevant technologies risks creating a mismatch between privacy values and the effects of the resulting rules.<sup>168</sup>

Admittedly, such judicial caution does not immediately solve many of the problems discussed above.<sup>169</sup> Nonetheless, this Article seeks to create a framework for bright-line Fourth Amendment rules and establish criteria for future expansion. While the strictness of bright-line rules is their great strength in protecting privacy, courts should only engage in such rulemaking out of necessity.<sup>170</sup> By adopting bright-line Fourth Amendment rules for areas that most clearly deserve constitutional protection, courts can shape the contours of such rules and cement the bright-line rule approach before expanding it to new areas as technological change and social use require.<sup>171</sup> In the meantime, the Court should only adopt bright-line rules protecting homes and bodies—core areas of privacy—come what may.

### **B.** Bright Line Rules for Homes

This Subsection traces the longstanding importance and special legal protections granted to residences in common law, statutes and constitutional law as well as recent Fourth Amendment case law. It argues that the legal protections granted to homes flow from personhood interests in the home, so the Fourth Amendment can specially protect homes without violating the principle that "the Fourth Amendment protects people, not places."<sup>172</sup> It then sets out the details of the bright-line rule with a limited plain view exception, and defends it against criticisms of underinclusiveness and overinclusiveness. This Subsection argues that the bright-line rule will spur the innovation and adoption of new technologies that will enable thorough police investigations while protecting the privacy of the home.

### 1. Homes and the Law

Virtually all areas of American law provide special protections in the home.<sup>173</sup> Common law tort doctrine subjects accidents within the home to different liability standards than those that occur elsewhere.<sup>174</sup> Similarly, contract law requires more stringent provisions for sales of real property than for other contracts.<sup>175</sup> In substantive criminal law, many states have adopted "Castle Laws" that statutorily eliminate the duty

<sup>&</sup>lt;sup>168</sup> See Orin S. Kerr, *Technology, Privacy, and the Courts: A Reply to Colb and Swire*, 102 MICH. L. REV. 933, 935 (2004).

<sup>&</sup>lt;sup>169</sup> See supra notes 17–65 and accompanying text.

<sup>&</sup>lt;sup>170</sup> See supra notes 129–48 and accompanying text.

<sup>&</sup>lt;sup>171</sup> See Strandburg, supra note 167.

<sup>&</sup>lt;sup>172</sup> Katz v. United States, 389 U.S. 347, 351 (1967).

<sup>&</sup>lt;sup>173</sup> See D. Benjamin Barros, *Home as a Legal Concept*, 46 SANTA CLARA L. REV 255, 256–57 (2006) [hereinafter Barros, *Home*] (detailing the special place of the home in property, Third Amendment, Fourth Amendment, tax, debtor-creditor, tort, criminal, family and privacy law).

<sup>&</sup>lt;sup>174</sup> See RESTATEMENT (SECOND) OF TORTS § 332 (2010).

<sup>&</sup>lt;sup>175</sup> See Restatement (Second) of Contracts § 127 (2010).

to retreat for self-defense claims when attacked in the home.<sup>176</sup> States have even granted homeowners special protections in debtor-creditor relations and foreclosure sales.<sup>177</sup> Courts have extended the importance of the home to constitutional law as well. In Takings cases, the Supreme Court has treated even the smallest physical intrusions on a home as "perhaps the most serious form of invasion of an owner's property interests."<sup>178</sup> Protection of the home is the sole reason for the Third Amendment.<sup>179</sup> In the First Amendment context, the Court has recognized that "[a] special respect for individual liberty in the home has long been part of our culture and our law."<sup>180</sup> Accordingly, the Court has struck statutes prohibiting homeowners from displaying lawn signs<sup>181</sup> and possessing obscenity in their homes,<sup>182</sup> and upheld the rights of homeowners to prevent unwanted mail from entering their homes.<sup>183</sup> The Alaska Supreme Court has even extended constitutional protection to the personal consumption of marijuana in the home.<sup>184</sup>

The extra protections given to homes in all areas of the law have special significance in the Fourth Amendment context, where "the right of a man to retreat into his own home and there be free from unreasonable governmental intrusion" is paramount.<sup>185</sup> The Court has even extended such protections to places similar to homes.<sup>186</sup> For instance, renters enjoy full Fourth Amendment protections,<sup>187</sup> so long as the tenant complies with the rental contract.<sup>188</sup> The Fourth Amendment even protects houseguests,<sup>189</sup> hotel guests,<sup>190</sup> and tents.<sup>191</sup> The reason for these broad constitutional

<sup>&</sup>lt;sup>176</sup> See, e.g., CAL. PENAL CODE § 198.5 (West 2010) (presuming that a person in her residence who attacks an intruder does so out of self-defense); see also Barros, *Home*, supra note 173, 260–62 ("[T]he law privileges certain acts of self-help made in defense of the home that would in another context be criminal or tortious.").

<sup>&</sup>lt;sup>177</sup> See Barros, Home, supra note 173, at 283.

<sup>&</sup>lt;sup>178</sup> Loretto v. Teleprompter Manhattan CATV, 458 U.S. 419, 435–38, 438 n.16 (1982). The Court in *Loretto* found the installation of a rooftop cable box whose dimensions are 18" x 12" x 6" constituted a government Taking requiring "just compensation." *See id.* at 421, 438 n.16.

<sup>&</sup>lt;sup>179</sup> See Barros, *Home*, *supra* note 173, at 256.

<sup>&</sup>lt;sup>180</sup> City of Ladue v. Gilleo, 512 U.S. 43, 58 (1994).

<sup>&</sup>lt;sup>181</sup> See id. at 45.

<sup>&</sup>lt;sup>182</sup> See Stanley v. Georgia, 394 U.S. 557 (1969).

<sup>&</sup>lt;sup>183</sup> See Rowan v. United States Post Office Dep't, 397 U.S. 728, 736–38 (1970).

<sup>&</sup>lt;sup>184</sup> See Ravin v. State, 537 P.2d 494, 503–04 (Alaska 1975); see generally ETZIONI, LIMITS, supra note 26, at 196 (arguing that "contemporary American society largely exempts from scrutiny most acts that occur inside the home").

<sup>&</sup>lt;sup>185</sup>Silverman v. United States, 365 U.S. 505, 511 (1961).

<sup>&</sup>lt;sup>186</sup> See Kerr, New Technologies, supra note 14, at 809–15 (arguing that Fourth Amendment doctrine loosely tracks property law).

<sup>&</sup>lt;sup>187</sup> See Chapman v. United States, 365 U.S. 610, 617 (1961).

<sup>&</sup>lt;sup>188</sup> See Minnesota v. Carter, 525 U.S. 83, 95–96 (1998) (Scalia, J., concurring) (finding that the Fourth Amendment protects house residents "when they rent it[] and even when they merely occupy it rent free – *so long as they actually live there*").

<sup>&</sup>lt;sup>189</sup> See Minnesota v. Olson, 495 U.S. 91, 98–99 (1990) (concluding that an authorized overnight guest has a reasonable expectation of privacy in the home he is visiting).

<sup>&</sup>lt;sup>190</sup> See United States v. Nerber, 222 F.3d 597, 600 n.2 (9th Cir. 2000) ("For Fourth Amendment purposes, a hotel room is treated essentially the same, if not exactly the same, as a home.")

<sup>&</sup>lt;sup>191</sup> See United States v. Gooch, 6 F.3d 673, 677 (9th Cir. 1993) ("We have already established that a person can have an objectively reasonable expectation of privacy in a tent on private property.").

protections is the constancy and importance of the idea of a residence.<sup>192</sup> The home is "the sacred retreat to which families repair for their privacy and their daily way of living."<sup>193</sup> This flows directly from the personhood interest in the home.<sup>194</sup> People's personal well-being is tightly bound up with the space of the home, <sup>195</sup> and any encroachments entail a "psychic toll" to personhood.<sup>196</sup> This is supported by both empirical studies and even evolutionary biology,<sup>197</sup> and is widely accepted among legal scholars.<sup>198</sup> Since the special protections granted to homes flow from personhood interests, granting homes bright line Fourth Amendment protection is consistent with the principle that "the Fourth Amendment protects people, not places."<sup>199</sup> While "new technology unmoors privacy from property," people will always need a place to live, and will always expect additional privacy there.<sup>200</sup> It follows, then, to grant added constitutional protections to a person's place of residence, regardless of its location or permanency.<sup>201</sup>

<sup>196</sup> Kelly, *Home Searches*, *supra* note 194, at 6.

<sup>197</sup> See Christopher Slobogin & Joseph E. Schumacher, *Reasonable Expectations of Privacy and Autonomy in Fourth Amendment Cases: An Empirical Look at "Understandings Recognized and Permitted by Society"*, 42 DUKE L.J. 727, 738–39 (1993) (finding bedrooms and college dorm rooms among the most private places in survey responses); Adam D. Moore, *Toward Informational Privacy Rights*, 44 SAN DIEGO L. REV. 809, 815–18 (2007) (arguing that "a lack of private space" will "threaten survival").

<sup>198</sup> See Stephen P. Jones, Reasonable Expectations of Privacy: Searches, Seizures, and the Concept of Fourth Amendment Standing, 27 U. MEM. L. REV. 907, 957 (1997) ("The most sacred of all areas protected by the Fourth Amendment is the home."); James Q. Whitman, The Two Western Cultures of Privacy: Dignity Versus Liberty, 113 YALE L.J. 1151, 1215 (2004) (noting that American privacy law conceives of the home "as the primary defense"); Kelly, Home Searches, supra note 194, at 7–8 (noting that the home has become the "gold standard" for Fourth Amendment protection); but see Stephanie M. Stern, The Inviolate Home: Housing Exceptionalism in the Fourth Amendment, 95 CORNELL L. REV. 905, 911–12 (2010) (arguing that the Fourth Amendment should protect substantive privacy interests, and overprotecting homes comes at the expense of substantive interests outside the home).

<sup>199</sup> Katz v. United States, 389 U.S. 347, 351 (1967).

<sup>200</sup> Sherry F. Colb, A World Without Privacy: Why Property Does Not Define the Limits of the Right Against Unreasonable Searches and Seizures, 102 MICH. L. REV. 889, 894–95 (2004) [hereinafter Colb, World Without Privacy].

<sup>201</sup> But see California v. Carney, 471 U.S. 386, 390–93 (1985) (finding that a mobile home is not a "home" for Fourth Amendment purposes because it can be "quickly moved"). However, the Court expressly declined to reach the issue of a mobile home "that is situated in a way or place that objectively indicates that it is being used as a residence." *Id.* at 394 n.3.

<sup>&</sup>lt;sup>192</sup> See Barros, *Home*, *supra* note 173, at 276–77 & n.90 ("[H]omes are sources of feelings of rootedness, continuity, stability, permanence, and connection to larger social networks.").

<sup>&</sup>lt;sup>193</sup> Gregory v. Chicago, 394 U.S. 111, 125 (1969) (Black, J., concurring).

<sup>&</sup>lt;sup>194</sup> See Margaret Jane Radin, Property and Personhood, 34 STAN. L. REV. 957, 997–1000 (1982) [hereinafter Radin, Property] (advocating strong protection of the home from criminal searches because of residents' strong personhood interests); see also Arianna Kennedy Kelly, The Costs of the Fourth Amendment: Home Searches and Takings Law, 28 MISS. C. L. REV. 1, 3 (2009) [hereinafter Kelly, Home Searches] (suggesting compensation for harms to personhood inherent in residential searches); Christian M. Halliburton, How Privacy Killed Katz: A Tale of Cognitive Freedom and the Property of Personhood as Fourth Amendment Norm, 42 AKRON L. REV. 803 (2009) [hereinafter Halliburton, Privacy] (arguing for a property-based approach to Fourth Amendment law based on Margaret Radin's property and personhood theory).

<sup>&</sup>lt;sup>195</sup> See Radin, *Property, supra* note 194, at 960, 978, 1013 ("Our reverence for the sanctity of the home is rooted in the understanding that the home is inextricably part of the individual, the family, and the fabric of society.").

In response to recent advances in police surveillance technology, the Court has begun to develop these principles into a bright line rule protecting houses from government intrusion. In *United States v. Karo*,<sup>202</sup> Drug Enforcement Agency (DEA) agents used an electronic tracking device, a "beeper," while investigating a narcotics ring.<sup>203</sup> The agents placed the beeper in a container, without first obtaining a warrant, and used the beeper to track the container through several private homes.<sup>204</sup> On the basis of the beeper evidence, police obtained a warrant to search a residence which contained a drug lab.<sup>205</sup> The Court held that the DEA agents violated the defendant's Fourth Amendment rights, because the tracking device enabled them to see the location of the container in a private house, which could not ordinarily be seen without a warrant.<sup>206</sup> This marked a significant step towards the adoption of a bright line rule protecting the home from police surveillance.

The Court completed this move in *Kyllo v. United States*.<sup>207</sup> In *Kyllo*, police parked on a public street and directed a thermal imaging device at the defendant's home, without first obtaining a warrant.<sup>208</sup> The device revealed that some parts of his house were unusually hot, likely evidence that the defendant was using heat lamps to grow marijuana.<sup>209</sup> The police used the thermal image as evidence of probable cause to obtain a search warrant against the defendant.<sup>210</sup> The subsequent search revealed that the defendant was, in fact, growing marijuana under heat lights in his house.<sup>211</sup> The Court found that the thermal imaging device violated the Fourth Amendment because, as in *Karo*, it revealed "information regarding the interior of the home that could not otherwise have been obtained without physical intrusion."<sup>212</sup> Yet the Court went even further, declaring that "the Fourth Amendment draws a firm line at the entrance to the house" and "[t]hat line . . . must be not only firm but also bright . . . . "<sup>213</sup> Although many scholars lauded *Kyllo* as heralding "a new era of Fourth Amendment jurisprudence,"<sup>214</sup> in reality it simply reaffirmed the Court's longstanding belief that the warrantless physical invasion of the home "by even a fraction of an inch" is constitutionally impermissible.<sup>215</sup> Since

<sup>203</sup> *Id.* at 707.

 $^{206}_{207}$  Id. at 714–15.

<sup>215</sup> Silverman v. United States, 365 U.S. 505, 512 (1961).

<sup>&</sup>lt;sup>202</sup> United States v. Karo, 468 U.S. 705 (1984).

 $<sup>^{204}</sup>$  *Id.* at 708.

 $<sup>^{205}</sup>$  *Id.* at 709–10.

<sup>&</sup>lt;sup>207</sup> Kyllo v. United States, 533 U.S. 27 (2001).

<sup>&</sup>lt;sup>208</sup> *Id.* at 29.

<sup>&</sup>lt;sup>209</sup> Id.

<sup>&</sup>lt;sup>210</sup> *Id*.

<sup>&</sup>lt;sup>211</sup> *Id* at 30.

<sup>&</sup>lt;sup>212</sup> *Id.* at 34 (internal quotations omitted).

<sup>&</sup>lt;sup>213</sup> *Id.* at 40.

<sup>&</sup>lt;sup>214</sup> Melissa Arbus, Note, A Legal U-Turn: The Rehnquist Court Changes Direction and Steers Back to the Privacy Norms of the Warren Era, 89 VA. L. REV. 1729, 1769 (2003); see also David A. Sklansky, Back to the Future: Kyllo, Katz, and Common Law, 72 MISS. L.J. 143, 144–45 (2002) (describing Kyllo as a "likely touchstone[]" for future Supreme Court cases on the Fourth Amendment whose "expansive" reasoning will have "significance beyond its narrow holding and beyond its value as a curiosity").

the decision, lower courts have faithfully applied *Kyllo* to mean that the Fourth Amendment offers special protections to the home.<sup>216</sup>

#### 2. Bright Line Rules and Exceptions

The *Kyllo* Court adopted a firm, bright-line rule against warrantless government searches of a house; however, it is subject to a "plain view" exception.<sup>217</sup> An object is in plain view (and, therefore, unprotected by the Fourth Amendment) if it can be seen from an area where the police have a right to be, using technology that is in general public use.<sup>218</sup> This is best exemplified by *United States v. Knotts*.<sup>219</sup> The facts in *Knotts* are remarkably similar to those of *Karo*, except for the crucial difference that the electronic tracking device never went into a home.<sup>220</sup> The Court held that since the device only revealed what could have been seen without a warrant on a public road, it did not violate the Fourth Amendment.<sup>221</sup> Thus, what can be seen in public with technology that is in "general public use," even if it is in a house, is not protected by the Fourth Amendment.<sup>222</sup>

Such an expansive plain view exception may well swallow the bright-line rule as technology advances. As the dissenters in *Kyllo* rightfully point out, the Court's supposedly stringent protections "dissipate[] as soon as the relevant technology is in general public use."<sup>223</sup> They argue that the rule and the exception are contradictory, and the exception will destroy the rule, since the uncertainty of general public use will undermine the rule's bright line nature.<sup>224</sup> Therefore, the plain view exception must be narrowed in order to save the rule. Rather than incorporate general public use, the Court should return to an older conception of plain view, wherein an object or activity loses bright-line Fourth Amendment protection only if it is in "plain view of an officer who has a right be in the position to have that view."<sup>225</sup> Unlike the general public use exception, this narrower plain view exception protects privacy within the home regardless of technological advances.

<sup>&</sup>lt;sup>216</sup> See, e.g., Loria v. Gorman, 306 F.3d 1271 (9th Cir. 2002); United States v. Tolar, 268 F.3d 530, 532 (7th Cir. 2001).

<sup>&</sup>lt;sup>217</sup> *Kyllo*, 533 U.S. at 38.

<sup>&</sup>lt;sup>218</sup> See California v. Ciraolo, 476 U.S. 207, 213 (1986) ("What a person knowingly exposes to the public, even in his own home or office, is not subject to Fourth Amendment protection."); see also Arizona v. Hicks, 480 U.S. 321 (1987) (finding that serial numbers were not in plain view because they could not be seen without moving a turntable); Florida v. Riley, 488 U.S. 445 (1989) (finding that aerial inspection of property did not trigger the Fourth Amendment because a citizen could legally have flown in the airspace).

<sup>&</sup>lt;sup>219</sup> United States v. Knotts, 460 U.S. 276 (1983).

<sup>&</sup>lt;sup>220</sup> See id. at 279.

<sup>&</sup>lt;sup>221</sup> See id. at 285.

<sup>&</sup>lt;sup>222</sup> *Kyllo*, 533 U.S. at 39 & n.6.

<sup>&</sup>lt;sup>223</sup> *Id.* at 47 (Stevens, J., dissenting).

<sup>&</sup>lt;sup>224</sup> See id.

<sup>&</sup>lt;sup>225</sup> Harris v. United States, 390 U.S. 234, 246 (1968).

In practice, the narrower plain view exception only applies to objects and activities that an officer can see with can see with her own eyes in public.<sup>226</sup> In order to preserve the brightness of the rule and avoid line drawing problems, this exception must be construed very strictly to exclude any technology an officer uses to improve law enforcement surveillance.<sup>227</sup> "[D]evices that allow government to see things it could never see before" within the home, such as thermal imagers, GPS trackers, or hidden cameras, fall squarely within the bright line rule and require a warrant.<sup>228</sup> However, even "technology that allows governments to conduct more traditional surveillance more efficiently," such as binoculars or flashlights,<sup>229</sup> must also fall within the bright-line rule for homes to prevent a creeping general public use exception from swallowing the rule.<sup>230</sup> In fact, many courts have already accepted that "any enhanced viewing of the interior of a home impair[s] a legitimate expectation of privacy,"<sup>231</sup> and have found binoculars and telescopes to trigger Fourth Amendment protection.<sup>232</sup> Perhaps the only technology that may pass muster is prescription glasses, since they are worn to aid normal vision not law enforcement surveillance. Therefore, activities inside the home are only unprotected by the bright-line rule when an officer can see illegal activity "with the naked eye" from public property.<sup>233</sup>

This fits well with the Court's conception of the role of police in society. The Court has long held that police possess the same rights as "every citizen" in public places.<sup>234</sup> This includes interactions with uniformed police in streets and airports,<sup>235</sup> as well as conversations with undercover officers.<sup>236</sup> Although most states have criminalized using binoculars or recording equipment to see into people's homes,<sup>237</sup> undercover policing raises difficult issues in which officers may commit criminal acts

<sup>&</sup>lt;sup>226</sup> The Court has construed 'public place' broadly through the "open fields" doctrine. *See* Oliver v. United States, 466 U.S. 170, 179 (1984) (finding no reasonable expectation of privacy in open fields for Fourth Amendment purposes); *see also* United States v. Dunn, 480 U.S. 294, 301 (1987) (deciding "[c]urtilage questions" based on proximity, enclosure, use and protection from observation).

<sup>&</sup>lt;sup>227</sup> See, e.g., State v. Ward, 617 P.2d 568, 573 (Haw. 1980) (finding a reasonable expectation of privacy unless the activities were exposed to the naked eye).

<sup>&</sup>lt;sup>228</sup> Simmons, *Broader Perspective*, *supra* note 32, at 541–42, 549.

<sup>&</sup>lt;sup>229</sup> *Id.* at 541, 543–44, 550.

<sup>&</sup>lt;sup>230</sup> See Kyllo, 533 U.S. at 47 (Stevens, J., dissenting).

<sup>&</sup>lt;sup>231</sup> United States v. Taborda, 635 F.2d 131, 138–39 (2d Cir. 1980).

<sup>&</sup>lt;sup>232</sup> See United States v. Kim, 415 F. Supp. 1252, 1258 (D. Haw. 1976) (finding police use of a telescope to see into defendant's home violated his reasonable expectations of privacy); Commonwealth v. Lemanski, 529 A.2d 1085, 1093 (Pa. Super. Ct. 1987) (finding that using binoculars to identify objects not identifiable to the naked eye violates the defendant's reasonable expectation of privacy).

<sup>&</sup>lt;sup>233</sup> United States v. Whaley, 779 F.2d 585, 590 (11th Cir. 1986), *cert. denied*, 479 U.S. 1055 (1987) (finding no Fourth Amendment protection for a cocaine factory "in a lighted room directly in front of uncurtained windows").

<sup>&</sup>lt;sup>234</sup> Terry v. Ohio, 392 U.S. 1, 32–33 (1968) (Harlan, J., concurring).

<sup>&</sup>lt;sup>235</sup> See id. at 34 (White, J., concurring) ("There is nothing in the Constitution which prevents a policeman from addressing questions to anyone on the street."); United States v. Mendenhall, 446 U.S. 544, 551–54 (1980) (finding that not "every street encounter between a citizen and the police" is "secured by the Fourth Amendment").

<sup>&</sup>lt;sup>236</sup> See Illinois v. Perkins, 496 U.S. 292, 296 (1990) ("Conversations between suspects and undercover agents do not implicate the concerns underlying *Miranda*.").

<sup>&</sup>lt;sup>237</sup> See, e.g., OKLA. STAT. tit. 21, § 1171 (2008).

that could include violating the privacy of the home.<sup>238</sup> Nonetheless, the Supreme Court has repeatedly held that suspects give information or invitations into their home at their own risk, effectively exempting undercover police from the Fourth Amendment.<sup>239</sup> If undercover officers who commit crimes "are immune from prosecution so long as their actions lie within the scope of their official undercover role,"<sup>240</sup> surely the incriminating evidence they obtain from their dangerous work should not be excluded. Since the Supreme Court has granted undercover policing an exemption from all Fourth Amendment requirements, so too should it be exempt from the bright-line rule protecting homes.

Although the bright-line rule is subject to narrow exemptions for plain view and undercover policing, it is inviolable by new technological advancements. Regardless of changes in the social use of technology or the development of new police surveillance, the government will not be able to see into the home without first obtaining a warrant. However, the bright-line rule is merely for triggering Fourth Amendment protection and, therefore, is subject to all recognized exceptions to the warrant requirement. For instance, an officer in hot pursuit of a suspect may still enter a home without a warrant,<sup>241</sup> as can an officer who reasonably believes that evidence will be destroyed.<sup>242</sup> An officer can even enter a home to render emergency aid, so long as she is not motivated by a desire to arrest a suspect or seize evidence.<sup>243</sup> However, in the normal course of a police investigation, police may not look inside a home by any technologically enhanced means without first obtaining a warrant. This modified bright-line rule of *Kyllo* "captures the prevailing *zeitgeist* about law, technology and privacy."<sup>244</sup>

#### 3. Underinclusiveness, Overinclusiveness, and Technology Adoption

Like all bright-line rules, the modified *Kyllo* rule can be criticized for being "at once too broad and too narrow."<sup>245</sup> The rule can be criticized as underinclusive for basing its protection of privacy on homes, which "tends to favor the interests of wealthier people."<sup>246</sup> The rich have nicer, bigger homes (and some poor do not have homes at all),

<sup>&</sup>lt;sup>238</sup> See Elizabeth E. Joh, Breaking the Law to Enforce It: Undercover Police Participation in Crime, 62 STAN. L. REV. 155, 162–68 (2009) (describing undercover policing operations and tactics for crimes ranging from drug trafficking to prostitution to political corruption to terrorism); see also Jacqueline E. Ross, Impediments to Transnational Cooperation in Undercover Policing: A Comparative Study of the United States and Italy, 52 AM. J. COMP. L. 569 (2004) (describing American use and conception of undercover policing and contrasting them with European attitudes).

<sup>&</sup>lt;sup>239</sup> See Hoffa v. United States, 385 U.S. 293 (1966); Lewis v. United States, 385 U.S. 206 (1966); Lopez v. United States, 373 U.S. 427 (1963).

<sup>&</sup>lt;sup>240</sup> Joh, *supra* note 238, at 158.

<sup>&</sup>lt;sup>241</sup> See Warden, Md. Penitentiary v. Hayden, 387 U.S. 294 (1964); United States v. Santana, 427 U.S. 38, 43 (1976) ("[A] suspect may not defeat an arrest which has been set in motion in a public place . . . by the expedient of escaping to a private place.").

<sup>&</sup>lt;sup>242</sup> See Illinois v. MacArthur, 531 U.S. 326, 331–33 (2001); Brigham City v. Stuart, 547 U.S. 398, 403 (2006) (permitting warrantless searches "to prevent the imminent destruction of evidence").

<sup>&</sup>lt;sup>243</sup> See Brigham City, 427 U.S. at 402–03.

<sup>&</sup>lt;sup>244</sup> Kerr, *New Technologies, supra* note 14, at 802.

<sup>&</sup>lt;sup>245</sup> Kyllo, 533 U.S. at 46 (Stevens, J., dissenting).

<sup>&</sup>lt;sup>246</sup> William J. Stuntz, *The Distribution of Fourth Amendment Privacy*, 67 GEO. WASH. L. REV. 1265, 1267 (1999) [hereinafter Stuntz, *Distribution*].

so the rich not only have a larger physical space in which to enjoy privacy, but they are also likely to spend more time at home since it is more comfortable.<sup>247</sup> Since the rule necessarily provides more protection to homes than to public places, it makes Fourth Amendment protection a function of wealth.<sup>248</sup> Nonetheless, the Fourth Amendment does not protect equity; it protects privacy from unreasonable government intrusion.<sup>249</sup> Just as the First Amendment provides greater protection to media companies since they communicate more,<sup>250</sup> the Fourth Amendment affords more protection to those who are better able to keep their lives private. While this may be inequitable, it is not unjust.<sup>251</sup> Moreover, providing stronger protection to homes does not diminish the constitutional protections afforded to others, while ensuring that existing Fourth Amendment doctrine is not rendered meaningless by technological change.

The modified *Kyllo* rule can also be criticized for being overinclusive. By giving so much Fourth Amendment protection to the home, the rule makes it harder for police to catch more sophisticated criminals, such as drug lords, mafia dons and white collar criminals, who can conduct their criminal activities within the privacy of their homes.<sup>252</sup> Without the general public use exception, this is even more difficult at night, since the rule would bar police from using flashlights or binoculars to see into homes.<sup>253</sup> However, technology that can reveal information about the interior of the home is no substitute for classic police work such as, *inter alia*, visual surveillance, undercovers, informants, wiretaps, paper trails and deals with knowledgeable lower level criminals.<sup>254</sup> As discussed above, the Supreme Court has specifically exempted undercover officers and police cooperators wearing a wire from Fourth Amendment protection under the third-party doctrine.<sup>255</sup> Despite the restrictions on police investigations, the strictness of the modified *Kyllo* rule can incentivize the innovation and adoption of new technologies that do not invade the privacy of the home.

A bright line Fourth Amendment rule protecting houses raises the cost to police of violating privacy in the home, thereby diverting police resources to other tactics.<sup>256</sup> It also has the secondary effect of increasing demand for new technologies that do not intrude on houses by making new technologies relatively cheaper.<sup>257</sup> These "substitution effects" create a market for surveillance technology that does not look into homes. For

<sup>254</sup> See J. Bradley Bennett, White Collar Crime, Blue Collar Tactics: A Defense Lawyer's Perspective,
28 W. ST. U. L. REV. 65, 66–67 (2001).

<sup>&</sup>lt;sup>247</sup> See id. at 1270.

<sup>&</sup>lt;sup>248</sup> See id. at 1270–72.

<sup>&</sup>lt;sup>249</sup> See Brigham City v. Stuart, 547 U.S. 398, 403 (2006) (unanimous) (finding that "the ultimate touchstone of the Fourth Amendment is 'reasonableness'").

<sup>&</sup>lt;sup>250</sup> See, e.g., New York Times Co. v. Sullivan, 376 U.S. 254 (1964).

<sup>&</sup>lt;sup>251</sup> See ARISTOTLE, NICOMACHEAN ETHICS 86 (Joe Sachs trans., 2002) (arguing that equals should be treated equally and unequals should be treated unequally).

<sup>&</sup>lt;sup>252</sup> See Stuntz, Distribution, supra note 246, at 1267 ("[T]he kinds of crimes wealthier people tend to commit require greater invasions of privacy by the police to catch perpetrators.").

<sup>&</sup>lt;sup>253</sup> See Ric Simmons, From Katz to Kyllo: A Blueprint for Adapting the Fourth Amendment to Twenty-First Century Technologies, 53 HASTINGS L.J. 1303, 1334–35 n.142 (2002).

<sup>&</sup>lt;sup>255</sup> See supra note 239.

<sup>&</sup>lt;sup>256</sup> See Stuntz, Distribution, supra note 246, at 1267 ("When the Fourth Amendment limits the use of a police tactic like house searches, it does two things: it raises the cost of using that tactic, and it lowers the relative of cost of using other tactics that might be substitutes.").

<sup>&</sup>lt;sup>257</sup> See id.

instance, police can use electronic tracking devices to follow contraband—ranging from drugs to guns to child pornography—to a suspect's home without actually looking inside.<sup>258</sup> Similarly, police can use electronic surveillance and software to monitor phone calls, emails, and digital paper trails in order to catch white-collar criminals.<sup>259</sup> They can even watch criminals as soon as they step outside their home using video surveillance technology.<sup>260</sup> By making invading the privacy of the home relatively more costly to police, the bright-line rule incentivizes the adoption of these technologies and spurs the innovation of new privacy protecting technologies. The strictness of the bright-line rule ensures that technology does not eviscerate the longstanding privacy of the home while channeling police surveillance into less intrusive means. The rule can even operate in tandem with future bright-line rules to ensure that police adopt methods and technologies that truly minimize privacy intrusions.

#### C. Bright Line Rules for Human Bodies

This Subsection traces the longstanding importance and special legal protections granted to the human body by Anglo-American common law, statutes and constitutional law. It examines twentieth century bodily search cases to demonstrate that the Court has acknowledged the special importance of the human body in criminal procedure, and has steadily increased its protection under the Fourth Amendment. This Subsection argues that a bright-line rule protecting the human body from warrantless searches is the logical extension of the Court's bodily search jurisprudence. However, it breaks slightly from existing case law by arguing that police searches that violate the human body should be per se unconstitutional in order to prevent technology and exigency from undercutting the rule's bright-line nature. It then sets out the details of the bright-line rule with a limited plain view exception, and defends it against criticisms of underinclusiveness and overinclusiveness. This Subsection concludes by arguing that protect the human body, while still enabling police to investigate crime.

#### 1. Human Bodies and the Law

For centuries, Anglo-American common law has treated bodily integrity as an "absolute right,"<sup>261</sup> since "[n]o right is held more sacred, or is more carefully guarded, by the common law, than the right of every individual to the possession and control of his own person, free from all restraint or interference of others . . . ."<sup>262</sup> Accordingly,

<sup>&</sup>lt;sup>258</sup> See United States v. Knotts, 460 U.S. 276 (1983).

<sup>&</sup>lt;sup>259</sup> See Bennett, supra note 254, at 67–71.

<sup>&</sup>lt;sup>260</sup> See Simmons, *Broader Perspective, supra* note 32, at 550; Orin S. Kerr, *Do We Need a New Fourth Amendment?*, 107 MICH. L. REV. 951, 953–55 (2009) [hereinafter Kerr, *New Fourth Amendment*]; SLOBOGIN, PRIVACY AT RISK, *supra* note 42, at 89–90.

<sup>&</sup>lt;sup>261</sup> 1 WILLIAM BLACKSTONE, COMMENTARIES \*127, \*129 (stating that an "absolute right[]" of an individual was "the right of personal security [which] consists in a person's legal and uninterrupted enjoyment of his life, his limbs, his body, [and] his health . . . ."). *See also* In re Cincinnati Radiation Litig., 874 F. Supp. 796, 816–18 (S.D. Ohio 1995) (outlining Supreme Court decisions regarding the right to be free from unwanted bodily intrusions dating back to 1884).

<sup>&</sup>lt;sup>262</sup> Union Pacific Railway Co. v. Botsford, 141 U.S. 250, 251 (1891).

common law torts requires informed consent for doctors performing surgery,<sup>263</sup> or even pursuing nonsurgical treatment,<sup>264</sup> because it is "fundamental in American jurisprudence, that every human being of adult years and sound mind has a right to determine what shall be done with his own body."<sup>265</sup> Similarly, contract law treats waivers or limitations of damages for "injury to the person" as "prima facie unconscionable."<sup>266</sup> In substantive criminal law, "[a]ny touching, however, slight, may constitute an assault and battery,"<sup>267</sup> and some states treat the murder of a pregnant woman as a double homicide.<sup>268</sup> The constitution is perhaps even more protective of the human body, granting First Amendment protection to both clothing and tattoos.<sup>269</sup> Similarly, the Fourteenth Amendment forbids physical violence by any government actor.<sup>270</sup> Finally, the legal protections granted to homes are derived from the inviolability of the person.<sup>271</sup> As the most personal and permanent feature of human life, the body deserves, and has received, the highest legal protection.

In the criminal procedure context, the Court first addressed bodily intrusions in *Rochin v. California*.<sup>272</sup> In *Rochin*, police illegally broke into a narcotics suspect's bedroom, and violently attempted to retrieve two capsules from his mouth.<sup>273</sup> After this failed, the police took the defendant to the hospital where a doctor forced an emetic tube into his stomach, which induced him to vomit the capsules.<sup>274</sup> The two capsules contained morphine, which was introduced into evidence, and the defendant was convicted at trial.<sup>275</sup> Although the California appeals court upheld the conviction,<sup>276</sup> the Supreme Court struck it on Fourteenth Amendment grounds, finding that the actions of the police and the doctor "shock[] the conscience" and are "offensive to human dignity."<sup>277</sup> Although *Rochin* was decided under the Fourteenth Amendment since the Court had not yet incorporated the exclusionary rule against the states,<sup>278</sup> it demonstrates

<sup>&</sup>lt;sup>263</sup> See 61 AM. JUR. 2D Physicians, Surgeons, Etc. § 153 (2010) (requiring physicians to disclose all risks and obtain a patient's informed consent before conducting surgery).

<sup>&</sup>lt;sup>264</sup> See Matthies v. Mastromonaco, 160 N.J. 26 (1999) (upholding the doctrine of informed consent for a nonsurgical course of treatment despite clear medical justifications).

<sup>&</sup>lt;sup>265</sup> Canterbury v. Spence, 464 F.2d 772, 780 (D.C. Cir. 1972) (internal quotation omitted).

<sup>&</sup>lt;sup>266</sup> U.C.C. § 2-719(3) (2003).

<sup>&</sup>lt;sup>267</sup> Wallace v. Rosen, 765 N.E.2d 192, 196 (Ind. Ct. App. 2002).

<sup>&</sup>lt;sup>268</sup> See, e.g., N.Y. PENAL LAW §§ 125.00-125.05 (McKinney 2010).

<sup>&</sup>lt;sup>269</sup> See Cohen v. California, 403 U.S. 15 (1971) (striking defendant's conviction for wearing a jacket bearing the words "Fuck the Draft"); Anderson v. City of Hermosa Beach, 621 F.3d 1051, 1059 (9th Cir. 2010) (holding that "tattooing is purely expressive activity . . . entitled to full First Amendment protection").

<sup>&</sup>lt;sup>270</sup> See, e.g., Brown v. Mississippi, 297 U.S. 278 (1936) (holding that confessions obtained by violence violate the Due Process Clause of the Fourteenth Amendment).

<sup>&</sup>lt;sup>271</sup> See Radin, Property, supra note 194, at 997–1000; Kelly, Home Searches, supra note 194, at 6; Halliburton, Privacy, supra note 194, at 852–67; see generally JOHN LOCKE, TWO TREATISES OF GOVERNMENT (Peter Laslett ed., Cambridge University Press, 3d ed. 1988) (1690) (arguing that property rights are derived from people's inherent right to their own labor).

<sup>&</sup>lt;sup>272</sup> 342 U.S. 165 (1952).

<sup>&</sup>lt;sup>273</sup> *See id.* at 166.

<sup>&</sup>lt;sup>274</sup> See id.

<sup>&</sup>lt;sup>275</sup> See id. at 166–67.

<sup>&</sup>lt;sup>276</sup> See id.

<sup>&</sup>lt;sup>277</sup> Id. at 172, 174.

<sup>&</sup>lt;sup>278</sup> See Mapp v. Ohio, 367 U.S. 643 (1961) (incorporating the exclusionary rule against the states).

the Court's belief that the longstanding legal protections granted to the human body apply even to police investigations.

The Court next considered bodily searches in *Breithaupt v. Abram.*<sup>279</sup> In *Breithaupt*, the Court upheld forcibly taking a blood sample from an unconscious suspected drunken driver.<sup>280</sup> The results of the blood test were admitted as evidence of intoxication at the defendant's trial, where he was convicted of manslaughter.<sup>281</sup> The Court found that "the absence of conscious consent, without more, does not necessarily render the taking a violation of a constitutional right" since "[t]he blood test has become routine in our everyday life."<sup>282</sup> Although *Breithaupt* was also decided on Fourteenth Amendment grounds, the Court balanced privacy interests and public safety interests against drunk driving,<sup>283</sup> essentially engaging in a Fourth Amendment reasonableness analysis.<sup>284</sup> Although the Court backtracked on the protections granted to the human body in *Breithaupt*, it took a big step towards introducing the Fourth Amendment into bodily searches.

The dissents in *Breithaupt* are particularly notable, both for staying true to the law's general treatment of the human body, and foreshadowing future directions in bodily search law. Chief Justice Warren argued that *Breithaupt* is indistinguishable from *Rochin*, since both involve forcible extractions from the human body.<sup>285</sup> He argued that police "must stop short of bruising the body, breaking the skin, puncturing tissue or extracting bodily fluids" when obtaining evidence from suspects.<sup>286</sup> Justice Douglas, joined by Justice Black, similarly argued that the police violated "the sanctity of the body of an unconscious man."<sup>287</sup> He found that:

[I]t is repulsive to me for the police to insert needles into an unconscious person in order to get the evidence necessary to convict him, whether they find the person unconscious, give him a pill which puts him to sleep, or use force to subdue him. The indignity to the individual is the same in one case as in the other, for in each is his body invaded and assaulted by the police who are supposed to be the citizen's protector.<sup>288</sup>

The dissents make clear that the Court is sharply divided on the disposition of the case, yet both the majority and dissents agree on the importance of privacy and dignity for the constitutionality of bodily searches.<sup>289</sup> The dissents, anticipating future case law, essentially argue that the majority has insufficiently weighed privacy and dignity given the intrusiveness of the search on the specially protected human body.

<sup>&</sup>lt;sup>279</sup> Breithaupt v. Abram, 352 U.S. 432 (1957).

<sup>&</sup>lt;sup>280</sup> See id. at 433.

<sup>&</sup>lt;sup>281</sup> See id.

<sup>&</sup>lt;sup>282</sup> *Id.* at 435–36.

<sup>&</sup>lt;sup>283</sup> See id. at 439–40.

 <sup>&</sup>lt;sup>284</sup> See Michael G. Rogers, Note, Bodily Intrusion in Search of Evidence; A Study in Fourth Amendment Decisionmaking, 62 IND. L.J. 1181, 1185–86 (1987) [hereinafter Rogers, Bodily Intrusion].
 <sup>285</sup> See Breithaupt, 352 U.S. at 440 (Warren, C.J., dissenting).

<sup>&</sup>lt;sup>286</sup> *Id.* at 442.

<sup>&</sup>lt;sup>287</sup> Id. at 444 (Douglas, J., dissenting).

<sup>&</sup>lt;sup>288</sup> Id.

<sup>&</sup>lt;sup>289</sup> See Rogers, Bodily Intrusion, supra note 284, at 1186.

The Court formally adopted the Fourth Amendment for bodily searches in *Schmerber v. California.*<sup>290</sup> In *Schmerber*, the defendant was in the hospital recovering from injuries from a car accident.<sup>291</sup> The police suspected that he had been driving drunk and asked for consent to a blood test.<sup>292</sup> The defendant, acting on advice of counsel, refused.<sup>293</sup> The investigating officer then ordered a physician to draw a blood sample.<sup>294</sup> A chemical analysis of the blood sample revealed that the defendant was, in fact, drunk.<sup>295</sup> Building on *Breithaupt*, including the dissents, the Court found that "[t]he overriding function of the Fourth Amendment is to protect personal privacy and dignity against unwarranted intrusion by the State."<sup>296</sup> Nonetheless, the Court held that taking a blood sample did not violate Fourth Amendment protection,<sup>297</sup> since blood tests are "commonplace," "routine" and "involve[] virtually no risk, trauma or pain."<sup>298</sup> It further reasoned that since "the percentage of alcohol in the blood begins to diminish shortly after drinking stops," the officer had to act immediately; otherwise the evidence would be destroyed.<sup>299</sup>

The Court's opinion in *Schmerber* is notable in three respects. First, it analyzed a blood test as a "search" under the Fourth Amendment, thereby recognizing the inherent tradeoff between privacy and security.<sup>300</sup> In doing so, it required a "clear indication" that evidence would be found, and that the government must obtain a warrant wherever practicable.<sup>301</sup> Second, the Court included human dignity in its reasonableness analysis in light of the heightened legal protections afforded to the human body.<sup>302</sup> Commentators have read this as an acknowledgment of the "sanctity of the defendant's body."<sup>303</sup> Third, as in *Breithaupt*, the Court adopted a species of general public use exception, which included blood tests.<sup>304</sup> The dissents in *Breithaupt* objected to this exception, noting that the stomach pump was "common and accepted" in *Rochin*.<sup>305</sup> In *Schmerber*, Justice Fortas similarly argued in dissent that:

[T]he State, in its role as prosecutor, has no right to extract blood from an accused, or anyone else, over his protest. As prosecutor, the State has no right to commit any kind of violence upon the person, or to utilize the

 $^{296}_{207}$  *Id.* at 767.

<sup>304</sup> See Schmerber, 384 U.S. at 771 & n.13; Breithaupt v. Abram, 352 U.S. 432, 436 (1957).

<sup>&</sup>lt;sup>290</sup> Schmerber v. California, 384 U.S. 757 (1966).

<sup>&</sup>lt;sup>291</sup> See id. at 758.

<sup>&</sup>lt;sup>292</sup> See id. at 765 n.9.

<sup>&</sup>lt;sup>293</sup> See id. at 759.

 $<sup>^{294}</sup>_{205}$  See id. at 758.

<sup>&</sup>lt;sup>295</sup> See id. at 759.

<sup>&</sup>lt;sup>297</sup> See id.

<sup>&</sup>lt;sup>298</sup> *Id.* at 771 & n.13 (internal quotation omitted).

<sup>&</sup>lt;sup>299</sup> *Id.* at 770–71.

<sup>&</sup>lt;sup>300</sup> See Rogers, Bodily Intrusion, supra note 284, at 1186–88.

<sup>&</sup>lt;sup>301</sup> *Schmerber*, 384 U.S. at 770.

<sup>&</sup>lt;sup>302</sup> See id. at 767.

<sup>&</sup>lt;sup>303</sup> Leonard Bruce Mandell & L. Anita Richardson, *Surgical Search: Removing a Scar on the Fourth Amendment*, 75 J. CRIM. L. & CRIMINOLOGY 525, 533–34 (1984) [hereinafter Mandell & Richardson, *Surgical Search*].

<sup>&</sup>lt;sup>305</sup> Breithaupt, 352 U.S. at 442 (Warren, C.J., dissenting).

results of such a tort, and the extraction of blood, over protest, is an act of violence.<sup>306</sup>

In response, the Court raised the standards for bodily searches under the Fourth Amendment in Winston v. Lee.<sup>307</sup> In Winston, police investigating an armed robbery wanted to force the defendant to undergo surgery to remove a bullet lodged in his left collarbone.<sup>308</sup> Hoping to tie the bullet to the gun the victim used in self-defense,<sup>309</sup> prosecutors initially obtained a court order requiring the surgery.<sup>310</sup> However. subsequent lower courts enjoined the threatened surgery.<sup>311</sup> The Court also blocked the surgery in a unanimous opinion that commentators have read to mark a return to Rochin and the implementation of a per se rule against surgical searches that require general anesthesia.<sup>312</sup> Even prior to Winston, many states had effectively adopted this per se rule.<sup>313</sup> For surgical searches requiring localized anesthesia, the Court held that:

The reasonableness of surgical intrusions beneath the skin depends on a case-by-case approach, in which the individual's interests in privacy and security are weighed against society's interests in conducting the procedure ....<sup>314</sup>

When conducting this balancing, the Court directed lower courts to examine "the magnitude of the intrusion," the "extent of intrusion upon the individual's dignitary interests," and "the community's interest in fairly and accurately determining guilt or innocence" as factors for determining the "reasonableness" of the intrusion for Fourth Amendment purposes.<sup>315</sup> Thus, *Winston* draws a "major-minor dichotomy" between a bright-line rule and balancing for bodily searches.<sup>316</sup>

### 2. Bright Line Rule and Exceptions

The Court's opinion in Winston reintroduced bright-line rules into bodily search jurisprudence, as first suggested in *Rochin*.<sup>317</sup> Yet by only providing bright-line rule protection to some, but not all, intrusive bodily searches, the Court left its work unfinished. The *Winston* Court chiefly erred by proposing a legal principle "built with

<sup>&</sup>lt;sup>306</sup> Schmerber, 384 U.S. at 779 (Fortas, J., dissenting) (internal citation omitted).

<sup>&</sup>lt;sup>307</sup> Winston v. Lee, 470 U.S. 753 (1985).

<sup>&</sup>lt;sup>308</sup> See id. at 755–56.

<sup>&</sup>lt;sup>309</sup> See id. at 765.

<sup>&</sup>lt;sup>310</sup> See id. at 756–57.

<sup>&</sup>lt;sup>311</sup> See id. at 757–58.

<sup>&</sup>lt;sup>312</sup> See Mandell & Richardson, Surgical Search, supra note 303, at 537, 546–47.

<sup>&</sup>lt;sup>313</sup> See Bowden v. State, 510 S.W.2d 879, 881 (Ark. 1974); Adams v. State, 299 N.E.2d 834, 837 (Ind. 1973); People v. Smith, 362 N.Y.S.2d 909, 914 (N.Y. Sup. Ct. 1974); State v. Allen, 291 S.E.2d 459, 463 (S.C. 1982). <sup>314</sup> *Winston*, 470 U.S. at 760.

<sup>&</sup>lt;sup>315</sup> *Id.* at 761–63.

<sup>&</sup>lt;sup>316</sup> Mandell & Richardson, *Surgical Search, supra* note 303, at 547 & n.111.

<sup>&</sup>lt;sup>317</sup> See Rochin v. California, 342 U.S. 156, 173–74 (1952) ("It would be a stultification of the responsibility which the course of constitutional history has cast upon this Court to hold that in order to convict a man the police cannot extract by force what is in his mind but can extract what is in his stomach.").

(or both) becoming more common.<sup>319</sup> Moreover, by grounding the constitutionality of bodily searches on whether they are routine or risky,<sup>320</sup> the Court "simply postpones the time at which general anesthetic surgical searches . . . become safe enough to fall on the minor side of the major-minor dichotomy . . . .<sup>321</sup> Yet in the interim, warrantless bodily searches run the grave risk of killing hemophiliacs or violating suspects' religious beliefs. <sup>322</sup> Thus, the major-minor dichotomy, predicated upon common usage and riskiness, is much like the general public use exception for homes that must be abandoned in order to save the rule.<sup>323</sup>

Similarly, although the reasonableness test suggested by the *Winston* Court for non-general anesthesia searches has been met with acclaim in the legal academy, both when it was decided and today,<sup>324</sup> it is causing confusion among the lower courts. Circuit courts have struggled to grapple with forced catheterization, which "is more intrusive than a needle but less intrusive than a scalpel, making it hard to classify under an objective reasonableness inquiry."<sup>325</sup> Even the procedural history of *Winston* itself is illustrative. The lower courts initially found a 1.5 centimeter incision to be justified, but then found a 2.5 centimeter incision to be unconstitutional.<sup>326</sup> To prevent such arbitrary judicial decision making, the Court should extend *Winston*'s bright-line rule against general anesthetic surgical searches to all bodily searches, whether physical or electronic, under the principles of *Rochin*.<sup>327</sup>

In order to prevent advancements in medical technology and "routine" use from undercutting the rule's bright-line nature,<sup>328</sup> the rule for bodies must be "brighter" in two respects. First, the rule must trigger Fourth Amendment protection for any search that looks within the body. Second, such searches must be per se unconstitutional, even if the

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<sup>&</sup>lt;sup>318</sup> Mandell & Richardson, *Surgical Search, supra* note 303, at 549.

 $<sup>^{319}</sup>$  Cf. id. at 548 (analogizing the impact of medical technology on abortion law to surgical searches).

<sup>&</sup>lt;sup>320</sup> See Schmerber, 384 U.S. at 771 & n.13 (internal quotation omitted).

<sup>&</sup>lt;sup>321</sup> Mandell & Richardson, *Surgical Search, supra* note 303, at 547.

<sup>&</sup>lt;sup>322</sup> See E. John Wherry, Jr., Vampire or Dinosaur: A Time to Revisit Schmerber v. California?, 19 AM. J. TRIAL ADVOC. 503, 508–09 n.20 (1996) [hereinafter Wherry, Vampire]. It is worth noting that the Court did acknowledge these risks, if only in passing. See Schmerber, 384 U.S. at 771 ("Petitioner is not one of the few who on grounds of fear, concern for health, or religious scruple might prefer some other means of testing....").

<sup>&</sup>lt;sup>323</sup> See supra notes 217–33 and accompanying text.

<sup>&</sup>lt;sup>324</sup> See, e.g., Jay A. Gitles, Comment, Fourth Amendment—Reasonableness of Surgical Intrusions, 76 J. CRIM. L. & CRIMINOLOGY 972, 979 (1985) ("The Court's decision to apply the Schmerber 'reasonableness' test to surgical intrusions was well-founded."); Ric Simmons, Can Winston Save Us from Big Brother? The Need for Judicial Consistency in Regulating Hyper-Intrusive Searches, 55 RUTGERS L. REV. 547, 587–89 (2003) (arguing for extending the Winston reasonableness test to all "hyper-intrusive" searches).

<sup>&</sup>lt;sup>325</sup> LeVine v. Roebuck, 550 F.3d 684, 687 (8th Cir. 2008) (quoting Sparks v. Stutler, 71 F.3d 259, 261 (7th Cir. 1995)).

<sup>&</sup>lt;sup>326</sup> See Winston, 470 U.S. at 756–57.

<sup>&</sup>lt;sup>327</sup> Cf. Mandell & Richardson, Surgical Search, supra note 303, at 549 (arguing that "[t]he Rochin standard is a defensible, independent constitutional rationale").

<sup>&</sup>lt;sup>328</sup> Schmerber, 384 U.S. at 771 n.13 (citing Breithaupt, 352 U.S. at 436).

police first obtained a warrant or an exception to the warrant requirement applies. The first requirement is similar to the bright rule for homes<sup>329</sup> since routine use, much like general public use, will continually expand and risk leaving Fourth Amendment protection for bodies an empty doctrine.<sup>330</sup> Additionally, both courts and police will be able to avoid making arbitrary judgment calls concerning the intrusiveness of bodily searches, so police will be better able to protect privacy while investigating crimes.<sup>331</sup>

The second requirement is much stricter than the bright line rule for homes.<sup>332</sup> because police have used exigency to force suspects to undergo medical procedures against their will without a warrant.<sup>333</sup> In Schmerber, the Court reasoned that since "the percentage of alcohol in the blood begins to diminish shortly after drinking stops," a forced blood test without a warrant is justified to prevent the "destruction of evidence under the direct control of the accused."<sup>334</sup> This broad use of the exigency exception to the warrant requirement applies to every case involving ingestion of alcohol or drugs;<sup>335</sup> even the police actions in Rochin, which "shock[ed] the conscience" of the Court, could be permissible under the Schmerber standard.<sup>336</sup> Thus, commentators have declared that "[b]lindly following Schmerber as authorization for all non-consensual blood seizure for forensic purposes is, in this day and age, an outrage.<sup>337</sup> While abandoning the exigency exception to the warrant requirement for bodily searches would help prevent such police abuse,<sup>338</sup> the *Winston* Court recognized that some bodily searches, even if conducted with prior judicial approval, violate "personal privacy and bodily integrity" to a sufficient extent to violate the Fourth Amendment.<sup>339</sup> In light of rapidly advancing medical technology and the inability of courts to keep up,<sup>340</sup> it is imprudent for courts to attempt to draw lines regarding the commonality or intrusiveness of a medical procedure, or for police to attempt to decide whether an exigency is sufficient to justify a search. Instead, as the Schmerber Court recognized in part, "fundamental human interests require law officers to suffer the risk that such evidence may disappear."<sup>341</sup> Therefore, the proposed bright line breaks from both *Breithaupt* and *Schmerber* by finding any search that looks within the body, including, *inter alia*, forced blood draws, vomiting, catheterizations or

<sup>&</sup>lt;sup>329</sup> See supra notes 217–34 and accompanying text.

<sup>&</sup>lt;sup>330</sup> See Kyllo v. United States, 533 U.S. 27, 47 (2001) (Stevens, J., dissenting).

<sup>&</sup>lt;sup>331</sup> See supra notes 324–27 and accompanying text; see also supra notes 129–53 and accompanying text. <sup>332</sup> See supra notes 241–43 and accompanying text.

<sup>&</sup>lt;sup>333</sup> See, e.g., Schmerber v. California, 384 U.S. 757 (1966) (finding that a forced blood test ordered by police administered by a doctor did not constitute a "search" within the meaning of the Fourth Amendment); State v. Schreiber, 585 A.2d 945 (N.J. 1991) (upholding a requirement for physicians to cooperate with police in drawing blood for driving while intoxicated cases); People v. Kral, 603 N.Y.S.2d 1004 (N.Y. App. Div. 1993) (same); Commonwealth v. Franz, 634 A.2d 662 (Pa. Super. Ct. 1993) (same).

<sup>&</sup>lt;sup>334</sup> Schmerber, 384 U.S. at 769–70 (internal citations omitted).

<sup>&</sup>lt;sup>335</sup> See supra note 333.

<sup>&</sup>lt;sup>336</sup> Rochin v. California, 342 U.S. 165, 172 (1952).

<sup>&</sup>lt;sup>337</sup> Wherry, Vampire, supra note 322, at 540.

<sup>&</sup>lt;sup>338</sup> See id. at 517–25.

<sup>&</sup>lt;sup>339</sup> Winston v. Lee, 470 U.S. 753, 764–65 (1985).

<sup>&</sup>lt;sup>340</sup> See supra notes 80-81, 107-08 and accompanying text; see also supra notes 162-65 and accompanying text.

<sup>&</sup>lt;sup>341</sup> Schmerber, 384 U.S. at 770.

body scanners without consent, to be per se unconstitutional whether conducted with or without a warrant.

Since the history of bodily search case law spans both before and after the incorporation of the exclusionary rule against the states, it is necessary to distinguish between Fourth and Fourteenth Amendment violations in the operation of the bright-line rule. For instance, a search conducted with the requisite level of suspicion in a "particularly offensive manner" likely violates the Fourteenth, but not the Fourth Amendment.<sup>342</sup> For the converse, consider a "brain wave recorder" that detects electrical impulses in the brain to determine mood, arousal, medications and pregnancy.<sup>343</sup> Since there is no physical element, its use by police does not violate the Fourteenth Amendment; however, it violates the bright line Fourth Amendment rule by looking within the body.<sup>344</sup> Under current Fourth Amendment law, the constitutionality of the brain wave recorder hinges on how a judge values "the individual's dignitary interests," assuming it was used with probable cause.<sup>345</sup> Conversely, the bright-line rule prevents judges from having to make arbitrary judgment calls concerning technology they may not fully understand,<sup>346</sup> while preserving the centuries old respect for bodily integrity against any advancements in police surveillance or medical technology.

Given the extraordinary strictness of the bright-line rule for searches of the body, it must be subject to a somewhat broader plain view exception than the bright line rule for homes. While the plain view exception for homes only covers objects or activities visible in public to the naked eye,<sup>347</sup> the exception for bodies also includes an adaptation of the Fifth Amendment privilege against self-incrimination.<sup>348</sup> The Fifth Amendment protects defendants from being compelled to "provide the State with evidence of a testimonial or communicative nature," <sup>349</sup> which includes any communications that, "explicitly or implicitly, relate a factual assertion or disclose information." <sup>350</sup> Therefore, as the *Schmerber* Court pointed out, the Fifth Amendment does not protect "against compulsion to submit to fingerprinting, photographing, or measurements, to write or speak for identification, to appear in court, to stand, to assume a stance, to walk, or to make a particular gesture."<sup>351</sup> Similarly, the bright-line Fourth Amendment rule does not protect bodily emanations that are external to the bodily itself, such as sweat, saliva, voices, and fingerprints. Police actions do not violate the bright line rule so long as such material is

<sup>&</sup>lt;sup>342</sup> United States v. Arnold, 523 F.3d 941, 946–47, n.2 (9th Cir. 2008).

<sup>&</sup>lt;sup>343</sup> Colb, World Without Privacy, supra note 200, at 889.

<sup>&</sup>lt;sup>344</sup> But see, e.g., Halliburton, *Privacy, supra* note 194, at 867–68 (arguing that personal thoughts are personal property subject to Fourth Amendment protection); Colb, *World Without Privacy, supra* note 200, at 891.

<sup>&</sup>lt;sup>345</sup> *Winston*, 470 U.S. at 761. The brain wave recorder also likely violates the Fifth Amendment privilege against self-incrimination. *See Schmerber*, 384 U.S. at 761 (finding that the Fifth Amendment protects evidence that is "testimonial or communicative").

<sup>&</sup>lt;sup>346</sup> See supra notes 80–81, 107–16 and accompanying text; see also supra notes 162–65 and accompanying text. (Fn 109-116 cite a case and supra can't be used for cases)

<sup>&</sup>lt;sup>347</sup> See Harris v. United States, 390 U.S. 234, 236 (1968).

<sup>&</sup>lt;sup>348</sup> See U.S. CONST. amend. V, cl. 3.

<sup>&</sup>lt;sup>349</sup> *Schmerber*, 384 U.S. at 761.

<sup>&</sup>lt;sup>350</sup> Doe v. United States, 487 U.S. 201, 201 (1988).

<sup>&</sup>lt;sup>351</sup> *Schmerber*, 384 U.S. at 764.

obtained by abandonment,<sup>352</sup> consent,<sup>353</sup> or the requisite level of suspicion for a person with reduced privacy expectations.<sup>354</sup> Just as "the Fourth Amendment draws a firm line at the entrance to the house," so too must it draw a bright line for the human body.<sup>355</sup>

The plain view exception for bodies, much like the exception for homes, also includes anything in "plain view of an officer who has a right be in the position to have that view"<sup>356</sup> that can be seen "with the naked eye" or prescription glasses.<sup>357</sup> Therefore, public video surveillance, <sup>358</sup> facial recognition software, <sup>359</sup> and iris scanning technology all fall within the plain view exception.<sup>360</sup> The furthest this exception extends is visual body cavity searches. Although body cavity searches literally entail looking inside the body, they can only be conducted without a warrant on those with highly reduced privacy expectations, such as prison inmates.<sup>361</sup> Moreover, so long as they are only conducted with the naked eye, there is no risk of new technologies invading a constitutionally protected space. This allows for an addition to the plain view, <sup>362</sup> they are unique for four reasons. First, the Supreme Court has repeatedly held that dog sniffs are not searches within the meaning of the Fourth Amendment.<sup>363</sup> Second, they are "binary surveillance tools" that only reveal "yes" or "no" answers.<sup>364</sup> Third, a dog sniff is particularly nonintrusive.<sup>365</sup> Fourth and most importantly, barring astonishing feats of

<sup>360</sup> See, e.g., Eyeticket Corp. v. Unisys Corp., 155 F. Supp. 2d 527, 532–34 (E.D. Va. 2001) (describing potential uses of iris scanning technology).

<sup>361</sup> See Bell v. Wolfish, 441 U.S. 520, 560 & n.41 (1979) (holding that "visual body-cavity inspections" can be conducted with probable cause and less than probable cause for inmates).

<sup>362</sup> See United States v. Place, 462 U.S. 696, 719–20 (1983) (Brennan, J., concurring) ("A dog adds a new and previously unobtainable dimension to human perception."); United States v. Bronstein, 521 F.2d 459, 464 (2d Cir. 1975) (Mansfield, J., concurring) (listing narcotics dogs, magnetometers, x-ray machines, and microphones as devices that "detect[] hidden objects without actual entry and without the enhancement of human senses").

<sup>363</sup> See Place, 462 U.S. at 707 (finding that a "canine sniff is sui generis" and does "not constitute a 'search' within the meaning of the Fourth Amendment"); Illinois v. Caballes, 543 U.S. 405, 410 (2005) ("A dog sniff conducted during a concededly lawful traffic stop . . . does not violate the Fourth Amendment.").

<sup>364</sup> Simmons, *Broader Perspective, supra* note 32, at 564; *See also Place*, 462 U.S. at 707 (finding that "a canine sniff by a well-trained narcotics-detection dog" will only reveal "the presence or absence of narcotics, a contraband item"); Illinois v. Caballes, 543 U.S. 405, 408–409 (2005).

<sup>&</sup>lt;sup>352</sup> For example, fingerprints or saliva left on a glass. *See, e.g.*, State v. Piro, 112 P.3d 831, 834 (Idaho Ct. App. 2005).

<sup>&</sup>lt;sup>353</sup> See Schneckloth v. Bustamonte, 412 U.S. 218, 219 (1973).

<sup>&</sup>lt;sup>354</sup> See, e.g., United States v. Kelly, 55 F.2d 67, 69 (2d Cir. 1932) (holding that fingerprinting a suspect at the time of arrest is an appropriate means for identification).

<sup>&</sup>lt;sup>355</sup> United States v. Kyllo, 533 U.S. 27, 40 (2001) (internal quotations omitted).

<sup>&</sup>lt;sup>356</sup> *Harris*, 390 U.S. at 236.

<sup>&</sup>lt;sup>357</sup> United States v. Whaley, 779 F.2d 585, 590 (11th Cir. 1986), cert. denied, 479 U.S. 1055 (1987).

<sup>&</sup>lt;sup>358</sup> See Simmons, *Broader Perspective, supra* note 32, at 550; Kerr, *New Fourth Amendment, supra* note 260, at 953–55 (2009); SLOBOGIN, PRIVACY AT RISK, *supra* note 42, at 89–90.

<sup>&</sup>lt;sup>359</sup> See Simmons, *Technology-Enhanced*, *supra* note 55, at 729–30; People v. Johnson, 43 Cal. Rptr. 3d 587, 597–98 (Cal. Ct. App. 2006) (discussing potential uses of facial recognition software); David Lamb, *One Last City is Scanning Faces in the Crowd*, L.A. TIMES, Sept. 29, 2003, at A10 (reporting that Virginia Beach continues to use facial-recognition systems to scan for terrorists, felons with outstanding warrants and missing children).

<sup>&</sup>lt;sup>365</sup> See Place, 462 U.S. at 707.

evolution, a dog cannot advance further to infringe on privacy interests.<sup>366</sup> Therefore, drug-sniffing dogs fall within the plain view exception.

### 3. Underinclusiveness, Overinclusiveness, and Technology Adoption

Like all bright-line rules, the body rule can be criticized for being "at once too broad and too narrow."<sup>367</sup> The rule can be criticized as underinclusive for not protecting against facial recognition software or video surveillance.<sup>368</sup> However, such surveillance does not infringe upon the "individual's dignitary interests in personal privacy and bodily integrity."<sup>369</sup> Even as technological aggregation makes new surveillance feasible,<sup>370</sup> it only violates bright line Fourth Amendment protection if it impedes the "sacred . . . right of every individual to the possession and control of his own person."<sup>371</sup> Moreover, extending Fourth Amendment protection to such technologies forces courts to make ad hoc judgments about how much aggregation is too much, thereby creating police uncertainty concerning privacy rights. By drawing a bright line at the human body, courts can ensure that technology does not erode bodily privacy protections while creating clear rules for police to follow in criminal investigations.

A more serious underinclusion criticism concerns DNA evidence. DNA can be obtained as a condition of incarceration or simply from a soda can.<sup>372</sup> Once it is entered into state and national databases, it can be used to trace an individual to crimes ranging from petty thefts to rapes that occurred decades earlier.<sup>373</sup> However, so long as the DNA is not forcibly collected in an intrusive manner, DNA typing does not violate the bright-line rule because of the adapted Fifth Amendment exception. Just as chemically testing a lawfully obtained blood sample for alcohol is not a testimonial communication protected by the Fifth Amendment,<sup>374</sup> testing a lawfully obtained DNA sample for identification is merely a bodily emanation not protected by the Fourth Amendment.

This does not disturb the privacy protections of the bright line rule for bodies for three reasons: (1) the type of DNA collected, (2) the status of the persons from whom

<sup>&</sup>lt;sup>366</sup> The exception does not extend to machines that reveal the same binary information, because they can advance further to intrude into bodily privacy.

<sup>&</sup>lt;sup>367</sup> Kyllo v. United States, 533 U.S. 27, 46 (2001) (Stevens, J., dissenting).

<sup>&</sup>lt;sup>368</sup> See Murphy, Paradigms, supra note 43, at 1332–36 (describing the expansive use of electronic monitoring technology); Slobogin, *Camera, supra* note 13 (arguing that courts should interpret the Fourth Amendment to recognize the right to be free from video surveillance in public, and suggesting that courts should set up guidelines for the use of such surveillance).

<sup>&</sup>lt;sup>369</sup> Winston v. Lee, 470 U.S. 753, 761 (1985).

<sup>&</sup>lt;sup>370</sup> See Simmons, Technology-Enhanced, supra note 55, at 727–28.

<sup>&</sup>lt;sup>371</sup> Union Pacific Railway Co. v. Botsford, 141 U.S. 250, 251 (1891).

<sup>&</sup>lt;sup>372</sup> See, e.g., Murphy, *Paradigms*, *supra* note 43, at 1329–32; State v. Piro, 112 P.3d 831, 834 (Idaho Ct. App. 2005) (upholding DNA testing of a water bottle retained by officers after the defendant was offered a drink while in custody).

<sup>&</sup>lt;sup>373</sup> See Erin Murphy, *The New Forensics: Criminal Justice, False Certainty, and the Second Generation of Scientific Evidence*, 95 CALIF. L. REV. 721, 732–44 (2007) [hereinafter Murphy, *New Forensics*] (noting the importance of DNA typing to the criminal justice system, charting its expansion into smaller crimes as costs have fallen, and explaining how DNA databases facilitate "cold hits" to enable conviction in the absence of any other evidence).

<sup>&</sup>lt;sup>374</sup> See Schmerber v. California, 384 U.S. 757, 760–65 (1966).

DNA is collected, and (3) the procedural safeguards in place. The government only collects and tests "junk DNA" that is "not associated with any known physical or medical characteristics," but "differs from one individual to the next."<sup>375</sup> Therefore, it is only useful for "purposes of identification," not unlike a dog sniff, thereby significantly limiting privacy violations.<sup>376</sup> DNA is only forcibly collected from those convicted or indicted of crimes, that is, those with fewer privacy rights.<sup>377</sup> Modern DNA collection techniques require just six cells of hair, skin, or saliva, which can be painlessly obtained from a cheek swab.<sup>378</sup> For mere suspects, DNA must be collected either by consent or abandonment.<sup>379</sup> Moreover, DNA databases contain "an array of statutory safeguards to foreclose the possibility of abuse," including criminal sanctions.<sup>380</sup> Finally, extending bright-line Fourth Amendment protection to DNA typing would require judicial regulation of a rapidly evolving forensic science.<sup>381</sup> Not only would any judge-made rules perpetually lag behind scientific developments, but judges could also impede criminal investigations or even harm privacy interests if they fail to understand how new DNA typing techniques work.<sup>382</sup>

The rule can also be criticized as overinclusive. *Breithaupt* emphasized "[t]he increasing slaughter on our highways," demonstrating that the Court saw blood tests as an important way to police drunk driving.<sup>383</sup> The *Schmerber* Court was similarly worried about the unenforceability of drunk driving laws without forced blood tests.<sup>384</sup> Under the bright-line rule, drawing blood without consent would be per se unconstitutional, even though a suspect's blood alcohol level may drop significantly by the time a police officer was able to obtain a warrant.<sup>385</sup> Yet technology has provided a solution. Rather than force suspects to undergo blood tests, police can, instead, administer Breathalyzer tests.<sup>386</sup> As the Court later noted:

Unlike blood tests, breath tests do not require piercing the skin and may be conducted safely outside a hospital environment and with a minimum of

<sup>379</sup> See Murphy, Paradigms, supra note 43, at 1332 & n.45.

<sup>&</sup>lt;sup>375</sup> United States v. Weikert, 504 F.3d 1, 3–4 (1st Cir. 2007) (internal quotation omitted).

<sup>&</sup>lt;sup>376</sup> *Id*. at 4.

<sup>&</sup>lt;sup>377</sup> See, e.g., *id.* at 3 (upholding DNA sample requirement for those on supervised release); United States v. Pool, 621 F.3d 1213, 1214–15 (9th Cir. 2010) (upholding DNA sample requirement for those indicted but not yet convicted as a condition of bail).

<sup>&</sup>lt;sup>378</sup> See Murphy, *New Forensics, supra* note 373, at 733. A cheek swab would fall within the plain view exception to the bright line rule since it can be seen in public with the naked eye.

<sup>&</sup>lt;sup>380</sup> Weikert, 504 F.3d at 4; See also Genetic Information Nondiscrimination Act of 2008, Pub. L. No. 110-233, 122 Stat. 881 (codified in scattered sections 29 and 42 U.S.C.) (giving covered employees an actionable claim against employers for discrimination based on genetic information *inter alia*).

<sup>&</sup>lt;sup>381</sup> See Murphy, New Forensics, supra note 373, at 732–44 (charting the progress and expansion of DNA typing).

<sup>&</sup>lt;sup>382</sup> See supra notes 162–65 and accompanying text.

<sup>&</sup>lt;sup>383</sup> Breithaupt v. Abram, 352 U.S. 432, 439 (1957).

<sup>&</sup>lt;sup>384</sup> See Schmerber, 384 U.S. at 770-71. Interestingly, some studies have called into doubt the reliability of blood tests as forensic tests for alcohol. See, e.g., Carol A. Roehrenbeck, Blood is Thicker Than Water: What You Need to Know to Challenge a Blood Alcohol Result, 8 CRIM. JUST. 14 (1993).

<sup>&</sup>lt;sup>385</sup> See Schmerber, 384 U.S. at 770 & n.13. But see Wherry, Vampire, supra note 322, at 519–20 (arguing that "some alcohol will remain detectable in the blood system for 3.6 to 6.6 hours").

<sup>&</sup>lt;sup>386</sup> See LAWRENCE TAYLOR, DRUNK DRIVING DEFENSE § 8.1 (4th ed. 1996) (noting the prevalence of breath tests by police).

inconvenience or embarrassment. Further, breath tests reveal the level of alcohol in the employee's bloodstream and nothing more.<sup>387</sup>

Although the police use Breathalyzers to measure blood alcohol level within the body,<sup>388</sup> the crucial distinction is that officers administering breath tests are only looking outside the body. Like fingerprints or saliva, a person's breath is a bodily emanation that can be obtained without violating the bright line rule for bodies. By contrast, the police in *Kyllo* violated the Fourth Amendment by measuring heat levels inside the home itself, rather than those outside of the home in the public domain.<sup>389</sup> Although this distinction may seem facile,<sup>390</sup> it is based upon centuries of Anglo-American law. While measuring a person's breath violates no recognized legal principles, forcing a needle into a person's body "is an act of violence," a battery, by the state.<sup>391</sup>

Had the *Schmerber* Court adopted the proposed bright line rule, police forces nationwide would have been strongly incentivized to adopt Breathalyzers.<sup>392</sup> Today, technology has even reached the point that blood alcohol levels can be determined from a person's sweat.<sup>393</sup> As technology evolves, police will be able to enforce the law while better protecting privacy in all areas of bodily search law, not simply drunk driving and blood tests. For drug swallowing cases, rather than forcibly inducing vomiting,<sup>394</sup> police can simply wait for the suspect to excrete the drugs.<sup>395</sup> For bullet removal cases, the very fact that a suspect refuses to have a bullet removed from his body is highly probative of guilt.<sup>396</sup> Although body scanners are per se unconstitutional under the bright line rule, law enforcement can still conduct traditional pat-downs and search luggage at the airport.<sup>397</sup> Finally, the bright-line rule creates a market for new law enforcement technologies that do not violate the constitutionally protected human body. By incentivizing the innovation and adoption of less intrusive bodily search techniques, the bright line protects core Fourth Amendment rights while avoiding overbreadth.

<sup>&</sup>lt;sup>387</sup> Skinner v. Ry. Labor Executives' Ass'n, 489 U.S. 602, 625 (1989).

<sup>&</sup>lt;sup>388</sup> See TAYLOR, supra note 386, § 8.1.

<sup>&</sup>lt;sup>389</sup> See Kyllo v. United States, 533 U.S. 27, 29 (2001).

<sup>&</sup>lt;sup>390</sup> See Kerr, New Technologies, supra note 14, at 834–35 (arguing that Kyllo "is rather mystifying from the standpoint of physics").

<sup>&</sup>lt;sup>391</sup> Schmerber, 384 U.S. at 779 (Fortas, J., dissenting).

 $<sup>^{392}</sup>$  Cf. Stuntz, Distribution, supra note 246, at 1267 ("When the Fourth Amendment limits the use of a police tactic . . . it raises the cost of using that tactic, and it lowers the relative of cost of using other tactics that might be substitutes.").

<sup>&</sup>lt;sup>393</sup> See Murphy, Paradigms, supra note 43, at 1334–35.

<sup>&</sup>lt;sup>394</sup> See Rochin v. California, 342 U.S. 165, 166 (1952).

<sup>&</sup>lt;sup>395</sup> See United States v. Montoya de Hernandez, 473 U.S. 531, 534–35 (1985).

<sup>&</sup>lt;sup>396</sup> The *Winston* Court refused to compel the surgical removal of a bullet, in part, because of the amount of incriminating evidence already amassed against the defendant. *See* Winston v. Lee, 470 U.S. 753, 765–66 (1985).

<sup>&</sup>lt;sup>397</sup> See, e.g., United States v. Edwards, 498 F.2d 496, 500–01 (2d Cir. 1974) (upholding pat-downs and hand searches of carry-on luggage in airports).

#### V. **CONCLUSION**

Under current law, the constitutionality of body scanners in airports under the Fourth Amendment is an easy case;<sup>398</sup> it should not be. Body scanners use "low intensity X-ray beams" to peer into airline passengers' bodies to detect nonmetallic objects.<sup>399</sup> Such government intrusion violates centuries of protections granted to the human body in all areas of law. A bright-line Fourth Amendment rule protecting bodies not only prevents such government intrusions, but also encourages law enforcement to find alternative means to provide security. Moreover, the clarity of the rule ensures compliance regardless of future technological developments while creating a market for surveillance technologies that do not violate protected areas of privacy.

The technology adoption mechanism brings the relationship between the Fourth Amendment and technology full circle. As the internet and digitalization downwardly redefine privacy norms, police and prosecutors magnify this effect by developing increasingly intrusive surveillance technologies. Yet neither courts nor legislatures can adequately keep up with this rapid pace of technological change, and law enforcement agencies have little incentive to protect privacy. Therefore, the only way to sufficiently protect society's remaining privacy interests is to cabin off core areas of privacy with bright-line Fourth Amendment rules. These rules not only ensure citizens' privacy regardless of new technological developments, but they also give law enforcement certainty when conducting investigations. By increasing the relative costs of invading the privacy of the home and the human body, the bright-line rules create demand for noninvasive surveillance technology that will spur its innovation and widespread adoption. Bright-line rules ensure a virtuous cycle of technological improvement, effective law enforcement and protected privacy interests. Although courts should begin by adopting bright-line rules for homes and bodies, more constitutional privacy protection may be needed in the future. As technology continues to improve and redefine society's interactions, courts and commentators must constantly reevaluate the appropriateness of current Fourth Amendment rules.

<sup>&</sup>lt;sup>398</sup> See Elec. Privacy Info. Ctr. v. U.S. Dep't of Homeland Sec., No. 10-1157, at 16-18 (D.C. Cir. July 15, 2011), available at

http://www.cadc.uscourts.gov/internet/opinions.nsf/B3100471112A40DE852578CE004FE42C/\$file/10-

<sup>1157-1318805.</sup>pdf (upholding the use of body scanners in airports under the Fourth Amendment). <sup>399</sup> *Id.* at 3.