

### Canada

### **INSIGHT 8**

# AI FURTHER ERODES PRIVACY

As Al-enabled devices collect more data online and in real life, efforts to turn data into new revenue streams could butt up against more privacy-conscious attitudes and devices. A new status quo may emerge that looks very different from the opaque way that users today exchange their data for free services.

# TODAY

Advances in AI are exacerbating privacy issues with technology. Most Canadians have become accustomed to accessing free online services – such as social media sites, generative AI platforms, or mobile apps. In many cases, they unknowingly give consent to companies to collect their data, sell it to third parties, and use AI to make sense of it and draw inferences about them. For example, Facebook uses AI to make inferences about users' suicide risk based on their social media posts.<sup>1</sup> Improvements in AI are allowing firms to analyze a greater variety and amount of data and transform it into revenue streams in new ways.



Not only online environments but also physical spaces are becoming less private. As noted in Insight 7, everyday household objects are outfitted with sensors to collect data – from toilets to toothbrushes to toys. Virtual Reality (VR) and video games can collect data about users' behaviour in the home and use Al to make inferences about emotions and personality traits.<sup>2</sup> Outside the home, devices such as smart glasses<sup>3</sup> and Al pins<sup>4</sup> are raising new questions about privacy in public. Fragments of human DNA, known as environmental DNA, collected from public spaces for purposes such as disease monitoring, can potentially be used to track individuals, illegally harvest genomes, and engage in hidden forms of genetic surveillance and analysis.<sup>5, 6</sup>

**Smart cars raise particular privacy concerns.** In 2023 the Mozilla Foundation investigated 25 car brands and found that every one collected personal data that is not necessary to operate the vehicle<sup>7</sup>, usually taken from mobile devices connected to cars via apps, this data can include a person's annual income, immigration status, race, genetic information, sexual activity, photos, calendar, and to-do list. Of the 25 brands, 22 use this data to make inferences – for example, from location and phone contacts – and 21 share or sell data. Thirteen collect information about the weather, road surface conditions, traffic signs, and "other surroundings", which can include passersby.<sup>8</sup> Ninety-five percent of new vehicles will be connected vehicles by 2030.<sup>9</sup>

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# **FUTURES**

As the Internet of Things becomes the "AI of Things", data may become even more valuable, further incentivizing ever more data extraction. It may become possible to draw more sophisticated inferences to predict human behaviour, movement, or identify individuals, as discussed in Insight 5.

However, international regulatory pushback could reshape the privacy landscape. More jurisdictions are passing and enforcing new data privacy laws<sup>10</sup>, such as the American Privacy Rights Act<sup>11</sup> in the US. This could change some, if not many, aspects of "surveillance capitalism"<sup>12</sup> by giving users more control over their data. Future legal reforms could reframe inferences as personal information<sup>13</sup>, making it more difficult to sell them to third parties.

#### Emerging technology could also shift the privacy balance.

Edge computing, which refers to networks or devices that are physically near to the user, could enhance data privacy and security.<sup>14</sup> When user data is stored and processed on a userowned device, it may be more difficult for companies to collect and sell it.<sup>15</sup> However, edge computing can also introduce new risks, such as enabling face recognition on local devices and potentially easier access for malicious actors.<sup>16</sup>

# IMPLICATIONS

- Distinctions such as public versus private and online versus offline could become increasingly blurred. Homes and other spaces could be experienced as more or less private depending on the use of devices. Visitors to homes and passengers in cars may demand new consent protocols to protect their privacy
- Data shared with third parties could lead to sensitive information being shared with insurance companies<sup>17</sup>
- Schools and childcare providers could use privacy protections as a competitive advantage to attract families
- Surveillance could change the practices of police and criminals
  - Some forms of crime could move further underground and become more organized to evade detection
  - New technological capabilities could create new opportunities for hacking, fraud, and stalking
  - Traffic police may be less needed as monitoring of drivers by governments and insurance companies enables tickets to be issued automatically

- Activists<sup>18</sup> and journalists<sup>19</sup> could increasingly use ubiquitous computing to "return the gaze" by collecting information about powerful organizations or individuals. This practice is known as "sousveillance" or "equivalence." This could include hacking sensitive information about the personal lives of political representatives or other public figures<sup>20</sup>
- Data protection regimes could become more complex and less aligned globally
- Jurisdictions could struggle to balance privacy with researchers' need for representative datasets in areas such as medicine<sup>21</sup>
- Jurisdictions with weaker privacy laws could become increasingly "risky" destinations for work or travel
- Privacy-protecting devices could tilt the balance of power toward users

#### Endnotes

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