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AI and new digital technologies have transformed Alcohol and Other Drug Industries lobbying

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Business efforts to influence public policy, commonly known as corporate lobbying, attract much controversy due to the inherent imbalance in resources between the corporate sector and the general public, and the lack of transparency concerning influence (Ihlen, Lock, & Raknes, 2022). Corporations have significantly more time and money to engage with political decision-makers than ordinary citizens. In the field of the commercial determinants of health, a growing research literature has begun documenting how corporations selling alcohol and other drug (AOD) products lobby policymakers to avert stricter regulations on prices, advertising, products and availability. Spurred by the release of tobacco industry documents in the 1990s, studies of corporate political activity have demonstrated how similar tactics are adopted by various sectors: tobacco (Savell, Gilmore, & Fooks, 2014), alcohol (McCambridge, Mialon, & Hawkins, 2018), gambling (Adams, 2016), food (Mialon, Swinburn, & Sacks, 2015), and more recently the legal cannabis industry (Adams, Rychert, & Wilkins, 2021) and vape sector.

The ongoing digital revolution, from algorithmic content distribution on social media to the recent and growing use of AI and Large Language Processing (LLP) models, is changing the ways in which corporations can influence regulatory environments and public opinion (Murray & Flyverbom, 2020). Digital advertising and marketing have been at the forefront of research in the AOD consumption space (Carah & Brodmerkel, 2021; Lyons et al., 2023). But the industry is employing new technologies in areas beyond traditional marketing: digital platforms and AI can now be leveraged to connect with politicians, conduct mass public relations (PR) campaigns, and influence policy processes and directions. For example, AI-powered bots can chime in with public debates, and social media platforms offer new spaces for connecting with politicians and building communities of support. Against this background, critical social sciences have identified concerns in the design and inscription of new technologies: AI and other LLP models can reinforce harmful assumptions and contribute to perpetuating health inequities and discrimination of certain groups (Baumgartner et al., 2023). This is often attributed to the algorithmic biases that are inscribed in the design of these technologies (Benjamin, 2019). Drawing on emerging studies from public health, business, and Science and Technology Studies (STS), we discuss how the new digital tools might be used by AOD consumption industries to influence public policy.

Online networking with politicians and key stakeholders

Corporate lobbyists spend significant time and resources building relationships with politicians, and social media platforms have provided a new tool to initiate and nurture such contacts outside of formal meetings and informal receptions (Ihlen et al., 2022). In the healthcare policy context, for example, a study in Norway identified how businesses and other interest groups used Twitter to communicate their support for certain politicians and policies (Figenschou & Fredheim, 2020). In the food sector, a study of ultra-processed food industry measured how food companies tag and retweet policymakers' social media content (both positively and negatively) to engage with politicians and influence the policy debate in Australia (Hunt, 2021).

In the case of ‘controversial’ AOD industries that sell products such as alcohol, tobacco, vape and legal cannabis, the public nature and visibility of social media interactions may act as a disincentive for policymaker engagement with industry actors. However, we *have* witnessed politicians re-tweeting cannabis industry posts and companies tagging politicians on social media. As researchers, we have also been invited to connect with industry actors on social media, illustrating how businesses use these platforms to build wider networks with influential stakeholders: academics, civil society and professionals working in the field. These connections provide digital meeting points to promote industry-friendly narratives. The nature and frequency of digital networking by the AOD sector are starting to be studied, and social network analysis is a useful tool for understanding how industry connects with influential stakeholders and mobilises on social media in times of heightened legislative activity (Haupt, Xu, Yang, Cai, & Mackey, 2021; Rychert, Wilkins, van der Sanden, & Prasad, 2022).

Digital astroturfing and AI in policy consultation processes

Consultative mechanisms such as public hearings, submissions and industry consultations provide a formal avenue for industry input into policy decision-making. New technologies have created opportunities to influence and manipulate these processes, complicating already existing challenges with ensuring their transparency.

“Digital astroturfing”, for example, is an influence strategy that can be used during public consultation to create the perception of wider public support for a policy. Astroturfing involves faking a grassroots movement when the agenda is in fact controlled by a hidden company (Tobacco Tactics, 2022). A recent study revealed a digital astroturfing campaign by tobacco and vaping companies during consultations on the proposed restrictions on vaping products in Australia. Researchers found that 26% of submissions from consumers contained copy-pasted text from a template provided by an industry-led campaign (Jongenelis, Robinson, Hughes, & Pettigrew, 2023). As noted by the authors, using consumers to make submissions on behalf of the industry bypasses formal requirements to disclose conflicts of interest during public consultations.

The use of generative AI to manufacture fake submissions is another tactic that could be used to influence public policy consultation. We are not aware of any examples of generative AI models deployed in this way, but it is an emerging threat to democratic processes and the issue is attracting the attention of policymakers in some countries (Ministry of Justice, 2023). The primary difficulty lies in verifying the authenticity of public submissions.

Indirect lobbying: algorithmic and participatory PR campaigns

A more nuanced approach to influencing policy involves generating indirect pressure by persuading the public (rather than policymakers) to adopt a particular position on an issue. Traditionally, such influence occurs through promoting industry-friendly narratives in the mass media, advertorials, press releases, and sponsorships. In the digital world public discourse can be manipulated more efficiently through platform algorithms and data-driven PR strategies.

On a rudimentary level, digital platforms have facilitated more customised and targeted (hence more efficient) PR campaigns. However, the real transformative effects of new digital technologies come from their data-driven and participatory nature. Specifically, they provide PR strategists and marketers with powerful tools to *organise* information and *feed algorithms* to refine public engagement with their messages, nurture communities of support, and create pro-consumption environments (Carah & Brodmerkel, 2021; Murray & Flyverbom, 2020). The corporate use of new digital technologies goes beyond sales-focused marketing. Rather, the broader aim of digital PR campaigns is to maintain the positive reputation of the industry, for example through reinforcing messages that companies make

positive contribution to the economy and society, or that the industry is taking active steps to prevent health harms from their products (Adams et al., 2021).

Social bots, for example, are AI-powered applications that automatically produce content and interact with humans (Ferrara, Varol, Davis, Menczer, & Flammini, 2016). Aside from automating routine commercial tasks such as customer service, bots can be used in corporate PR communication (Wischnewski, Ngo, Bernemann, Jansen, & Krämer, 2024) and to influence public opinion and attitudes, as illustrated in the political science literature (Godulla et al., 2021). Bots can leave comments, engage in conversations, and distribute likes in social media on an automatic and semi-autonomous basis. Public debates on health issues and risky products can thereby be shaped through mass bot-assisted PR campaigns. For example, tweets posted from bot accounts have made unsubstantiated health claims about the therapeutic benefits of cannabis, illustrating how bots can be used to alter the knowledge and information environment (Allem, Escobedo, & Dharmapuri, 2019; Lim et al., 2024). In turn, social media users engaging with such content leave traces of personal data, providing the PR campaigners with the opportunity to test, tailor and target corporate PR messages at unparalleled volume, speed and efficiency.

One of the latest emerging technologies employed for PR purposes is the Metaverse, an immersive virtual reality (VR) version of the internet (Bushell, 2022). Alcohol, tobacco and cannabis companies already use the Metaverse – not only to promote their products, but also to create immersive pro-consumption spaces and build communities of support, sometimes evading national laws (Alcántara, 2022; Vital Strategies, 2023). While there is uncertainty about the uptake of VR technology, many experts agree that augmented reality (AR) will dominate people's lives in the future (Appel, Grewal, Hadi, & Stephen, 2020; PEW Research Centre, 2022). Companies in the AOD space were among the first to embrace AR. For example, several vape businesses integrated an AR-based game Pokémon Go into their promotions at the height of its popularity in 2016 (Kirkpatrick et al., 2017). Besides marketing campaigns to increase sales, AR can be used in more sophisticated ways to support industry PR frames. For example, an industry-funded PR organisation *Drink Wise* engaged in sponsoring 'selfie' filters on Snapchat (Hawker & Carah, 2021). In this approach, social media users were targeted with a promotional campaign that encouraged them to apply filters on their own videos or 'selfies'. The interactive nature of such campaigns has a potential to particularly manipulate young people and those less equipped to recognise the nature and origin of the messages. It illustrates how the sector can leverage new technology to promote so called "responsible" alcohol consumption. The message that industry is actively engaged in activities to reduce alcohol harm is one of the key PR strategies used to lobby against more effective legislative controls (Ulucanlar et al., 2023).

Reflecting on future research and regulatory priorities

The transformative role of new technologies in corporate political activity has implications for future research and the regulatory response. New digital technologies provide a new medium for industry-friendly messages and virtual spaces for connecting with policymakers, other policy stakeholders, consumers, and the public. As such, studying the *content* of messages continues to be an important avenue of research. But the algorithmic and networked nature of digital spaces, combined with AI technology, mean that policy issues are also influenced by *how* these messages are organised and distributed in the digital realm. In other words, subtle forms of policy influence can be achieved through the *structuring* of information itself (Murray & Flyverbom, 2020). Scholars in business and management refer to this transformation as 'datafied corporate political activity' (Murray & Flyverbom, 2020). Expanding on calls for greater attention to data-driven marketing by the alcohol industry (Carah & Brodmerkel, 2021), we recommend a data-driven approach to understanding and researching industry political lobbying efforts.

The use of AI and algorithms to influence public opinion and policymakers presents a wide and significant challenge to political processes and democracy, and regulatory responses are lagging. For example, only Canada and the European Union require lobbyists to disclose information on the use of social media and other PR campaigns as a lobbying tool (OECD, 2022). With the subtler forms of corporate political influence currently hidden, the policy and regulatory responses to corporate lobbying need to reconceptualise corporate political activity as increasingly digital, data-driven, networked and AI-assisted. Care is needed in preventing algorithmic bias and designing ethically responsible tools to balance health promotion and consumer agency. The potential of new digital technologies will likely need to be harnessed in the future to protect the integrity of policy processes (e.g., to help identify AI-generated content). In the interim, improving the transparency of lobbying activities through mandatory registers and disclosures, including regarding the use of social media and AI, is an easily implementable and essential first regulatory response.

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