Internet content regulation, public drug websites and the growth in hidden Internet services

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Governments have traditionally censored drug-related information, both in traditional media and, in recent years, in online media. We explore Internet content regulation from a drug-policy perspective by describing the likely impacts of censoring drug websites and the parallel growth in hidden Internet services. Australia proposes a compulsory Internet filtering regime that would block websites that ‘depict, express or otherwise deal with matters of... drug misuse or addiction’ and/or ‘promote, incite or instruct in matters of crime’. In this article, we present findings from a mixed-methods study of online drug discussion. Our research found that websites dealing with drugs, that would likely be blocked by the filter, in fact contributed positively to harm reduction. Such sites helped people access more comprehensive and relevant information than was available elsewhere. Blocking these websites would likely drive drug discussion underground at a time when corporate-controlled ‘walled gardens’ (e.g. Facebook) and proprietary operating systems on mobile devices may also limit open drug discussion. At the same time, hidden Internet services, such as Silk Road, have emerged that are not affected by Internet filtering. The inability for any government to regulate Tor websites and the cryptocurrency Bitcoin poses a unique challenge to drug prohibition policies.

The Internet is often understood as a democracy-building technology that offers voiceless people the chance to be heard in a public arena (Leaning, 2009). The civil uprisings in the Middle East and North Africa in 2011 demonstrate how Internet-enabled devices can facilitate democratic expression even for people living under restrictive regimes (Al Sharekh, 2011). Yet, around the world, nation states – even those with strong democratic traditions – are attempting to implement greater regulation of Internet content (Akdeniz, 2010; Koumartzis & Veglis, 2011), seeking to manage perceived social ills that might emerge from unfettered online speech. One such form of content is that which relates to illicit drugs. Governments have traditionally sought to limit through censorship the circulation in society of information related to such drugs (Jaehrling, 2010). Attempts to minimize the use of illicit drugs by restrictions on the flow of information about them has already been applied in traditional media (e.g. books, films) but, increasingly in recent years, online media has become a key focus. The Internet has facilitated the sharing of detailed drug-related information and alternative drug policy options by people who are able to remain relatively anonymous (Murguia, Tackett-Gibson, & Lessem, 2007; Walsh, 2011). However, depending on how authorities categorize these materials, they may be subject to censorship due to their potential to instruct in or incite criminal activity, given the illicit status of the drugs concerned. Such censorship regimes are becoming more common as society’s understanding of the Internet matures and governments increasingly find ways to apply equal or stronger restrictions to online speech to those which have applied previously. Additionally, the Internet is now more dominated by so-called ‘walled gardens’ such as Facebook, in which corporate policies impose limits on speech often more narrow than those established by governments. Finally, the rise of mobile Internet access, through phones and tablet computers, also restricts the scope of online drug discussion (Arthur, 2012; Grim, 2010) because of the tendency for people using these devices to rely on ‘apps’ to access web content in narrow ways, and...
through more limited channels which favour traditional media outlets. In light of these various developments, in this article, we: (1) explore Internet content regulation from a drug-policy perspective by describing the likely impacts on strategies of harm reduction that could result from possible censorship of public drug websites and (2) consider the impacts of the parallel growth in hidden Internet services, including the anonymous online drug marketplace Silk Road where illicit drugs are bought and sold across and within national boundaries.

**THE INTERNET AND DEMOCRATIC ACTION**

As well as being understood as a tool for consuming information and buying products, the Internet has been hailed as a tool for spreading democracy. The Internet is generally understood as ‘a media form that specifically affords opportunities for the restoration of democracy or of resistance’ (Leaning, 2009, p. 105). Leaning locates this claim within two contrasting philosophical frameworks: liberal democratic and radical democratic. Within a liberal democratic framework, the mass media is considered to have a key role in critiquing the activities of the state and guarding the interests of the citizens, while the public sphere constituted through the media is seen as a site for the legitimate expression of opinion. The Internet is seen to offer an opportunity for individuals and organizations, who otherwise lack access to the mass media, to add their voices to public life. In contrast, the radical democratic position contends that, rather than critiquing the activities of government, mass media actually serve to legitimate and reinforce the state and that the public sphere systematically marginalizes minority and alternative voices, positioning them as outside of mainstream opinion even when they are permitted to contribute to mass media debates. From this perspective, the Internet can be a radical media only if ‘it affords true anti-systemic action, the articulation of contrary identities and the production of media content outside the normal spheres of action’ (Leaning, 2009, p. 106).

Leaning cautioned against non-critical acceptance of the Internet as inherently democratizing, yet shows how its use in particular circumstances may enable radical democratic action. The Internet can, if used properly, offer ordinary people a tool through which they can consume, produce and disseminate information that may run counter to dominant discourses, in contrast to traditional forms of mass media where content is centrally produced and distributed to a mass of media consumers. Moreover, this information can be linked closely to action, through fund-raising campaigns, targeted interventions in policy debates and the production of new discourses which frame issues in more meaningful ways than those found in mass media. Most of all, the Internet is a conversational medium, encouraging users to both produce and consume information, working in either tacit or agreed partnerships and groups ideally to become better informed and then inform others.

The effects of the Internet are not just felt within traditional political domains. The decentralization of power through Internet usage has also been identified by medical doctors who describe how patients who consult online information about health conditions may no longer reliant on the doctor as the sole expert, and can become more conscious of their own authority in managing their medical conditions (Eysenbach, 2008). The decentralization of power and democratization of information were also described by Bakardjieva (2005) in her ethnography of how people used the Internet in their everyday lives. Most of the people she studied had ‘become lay researchers willing to make informed decisions on matters of daily life and were aware, thanks to the Internet, of the wide range of alternatives available’ (p. 194). Online networks also appear to be more useful for gaining new information than physical-community networks, within which social ties are more closely bound (Boase & Wellman, 2006; Wellman & Gulia, 1999). This outcome is particularly important where the information sought might, when linked to the person seeking it, cause some negative judgement to be made about that person (as for example in the use of the Internet by young people of alternative sexualities to seek support and advice in ‘coming out’; Bond, Hefner, & Drogos, 2009).

However, as Leaning warns, online participation will not necessarily be part of radical action. The Internet still produces traditional forms of public-sphere engagement (more closely drawing citizens into the normalized debates and discussions articulated within the mass media, which themselves are now heavily invested in Internet distribution). The capacities of the Internet are contingent on societal factors that constrain and enable actions that may contribute to increased participation, power and democracy across citizen groups, including drug users.

**THE REGULATION OF MEDIA CONTENT IN AUSTRALIA**

Under current Australian law, both traditional and online content can be refused classification and thus, effectively, be prevented from legal circulation (Lumby, Green, & Hartley, 2009). The content which may thus be censored includes ‘instruction on drug use’. The definition of refused classification in the Classification (Publications, Films and Computer Games) Act 1995 (Cth) is broad and relies on an evaluation of whether the material would ‘offend against the standards of morality, decency and propriety generally accepted by reasonable adults’. Media that ‘depict, express or otherwise deal with matters of… drug misuse or addiction’ and/or
‘promote, incite or instruct in matters of crime’ may be refused classification, subject to the extent to which they would ‘offend reasonable adults’. These laws indicate that print publications, films, games and online content deemed to instruct in or promote drug use can be currently banned in Australia. For example, the book *E for Ecstasy* (Saunders, 1993) was seized by Australian customs due to its drug-related content (Saunders, 1997), and *PIHKAL: Phenethylamines I Have Known and Loved* (Shulgin & Shulgin, 1992) was also prevented from distribution in Australia (Expert opinions, 1997).

In the context of drug prohibition prior to the mid-1990s, many authors who publicly disseminated drug-use instructions did so without identifying themselves in an effort to avoid negative legal and social consequences. For example, instructional materials in cannabis cooking, growing and use were published pseudonymously in the late 1960s and early 1970s, including *The Super Grass Grower’s Guide* by ‘Mary Jane Superweed’ and *The Hashish Cookbook* by ‘Panama Rose’ (Jaehrling, 2010), while in the 1980s, ‘Uncle Fester’ published the infamous *Secrets of Methamphetamine Manufacture*, which is now in its ninth edition (Fynes-Clinton, 2009). Not long after the public began using the World Wide Web in the mid-1990s, media reports of websites distributing detailed instructions in drug use began to surface (Jenkins, 1999). Early use of the Internet progressed in a largely unregulated fashion, and during this time, many websites that provided detailed instruction in drug use were created (Murguía, Tackett-Gibson, & Willard, 2007). The Internet has facilitated drug-related publication by enabling anonymous publication; offering the capacity to host sites in countries with less restrictive censorship laws yet still make content available in other countries; and the relative ease and low entry barriers of maintaining websites and participating in collaborative online projects and communities.

While it is still easier to publish online than in print, increased government regulation of Internet content and increased use of proprietary websites and devices have reduced the ease by which instructional drug-related content can be published online. The Australian government has proposed legislation mandating that Internet Service Providers (ISPs) block all websites hosting refused classification content (Bennett Moses, 2010). According to the Australian Communications and Media Authority (ACMA), refused classification content includes ‘child abuse and child sexual abuse material, depictions of bestiality, material containing excessive violence or sexual violence, detailed instruction in crime, violence or drug use, and/or material that advocates the doing of a terrorist act’ (ACMA, 2011, emphasis added). Presently, online content that is brought to the attention of the ACMA can be refused classification, but only websites hosted in Australia can be issued with a notice forcing them to take down that material. Website owners can easily bypass these laws by hosting their websites in other countries with less restrictive laws, though the owners, if resident in Australia, might then be subject to other action (e.g. under the *Crimes Act*) for distributing that information. Under the proposed legislation, ISPs would be required to block all websites that contain content that meets the definition of refused classification, regardless of location (Bennett Moses, 2010). Although this policy has principally been promoted to a sceptical public as a method of reducing access to child pornography, it is clear that the legislation would also be used to block drug-related information websites (including those focused on harm reduction) and several other kinds of sites whose content is considered by some, but not by any means all, to be offensive (Crawford & Lumby, 2011; Lumby et al., 2009).

In addition to government intervention, the increased use of proprietary websites and mobile, ‘app’ driven devices creates effective, if unintended restrictions on the wide availability of content normally associated with the Internet. For example, both Facebook and Apple have been accused of censorship through removing drug- and sex-related content (Diaz, 2011; Grim, 2010). The increasing popularity of Facebook and Apple products may have reduced freedom of expression on the Internet by subjecting content to rules made by corporations (Halliday, 2012). Perhaps more significantly, the rise of Facebook and similar systems which generally involve the clear disclosure of identity make individual efforts to remain completely anonymous more difficult; further, users of mobile devices are less likely (and may even be prevented from) utilizing software that renders their activities online technically anonymous.

Notwithstanding these developments, the Internet continues to be used as a tool of subversion, resistance and evasion by people who do not agree with social norms that pathologize drug use (Walsh, 2011). Boyer, Shannon and Hibert’s (2005) ‘innovative drug users’ – who learnt drug practices through websites, applied new knowledge, then disseminated it through online networks – offer an example of folk pharmacologies produced through online communication. In Tackett-Gibson’s (2008) analysis of discussion about the drug ketamine in a public online forum, group members debated the validity and the meaning of both the drug experiences of other members and the published research about ketamine risk. These drug users developed their own ‘lay person’ evaluations of the risks and benefits of ketamine use, with Internet forums providing the means or setting for this to take place. Boyer et al. and Tackett-Gibson’s studies indicate that the folk pharmacologies also occur in online environments and are facilitated by the use of online communication technologies. Like Bruns’ (2006) ‘produsers’, these drug users consumed and produced information in a collaborative fashion, not unlike the online collaborators of Wikipedia and Open Source...
(see Brethauer, 2002; Fallis, 2008). As in these cases, the intent of these drug users is not explicitly revolutionary in most cases, but, nevertheless, is a radical democratic action because, through the actions of many individuals working together to share information, it undermines the norms of centralized information publication which has previously favoured both governments and commercial corporations who have controlled information access and flow to their own ends, if not their own perceived benefit.

**USE OF THE INTERNET BY DRUG USERS**

Australians’ use of illicit drugs cannot help but be influenced by the widespread availability and use of Internet technologies. Australians between 18 and 29 years are the most likely, compared with those younger and older, to have reported illicit drug use in the past 12 months in the most recent National Drug Strategy Household Survey (Australian Institute of Health and Welfare, 2011). The most recent Australian Bureau of Statistics data indicate that these young adults, the most likely to use illicit drugs, also report near universal levels of Internet access: over 90% of Australians aged 15–34 years reported Internet use in 2008–2009 and almost all of this use occurred either weekly or daily (Australian Bureau of Statistics, 2011).

People who use drugs are increasingly reporting the Internet as an important source of drug-related information (Gascoigne, Dillon, & Copeland, 2004; Johnston et al., 2006). The first author’s PhD research involved engagement with the users, moderators and administrators of 40 Internet forums where drugs were discussed in Australia. We recruited 837 drug users who recently participated in online drug discussion to complete an online survey, and 27 of these respondents also completed in-depth qualitative interviews (Barratt, 2012a). Their median age was 22 years ($M = 23.6$, SD = 6.2, range 16–51 years) and 71% were male ($N = 837$). Over the 18-month data collection period (2007–2008), we also engaged in online participant observation and saved records of interactions between drug users in public Internet forums. To better understand how forums were run, we also approached forum moderators and administrators and engaged them in discussions about how they deal with drug-related content on their websites.

**HARM REDUCTION THROUGH ONLINE DRUG DISCUSSION**

Almost all survey respondents (88%) reported that they had read or participated in online discussion for the purposes of reducing harm. This category included ‘learnt how to use drugs more safely’ and ‘learnt how to avoid bad experiences with drugs’. A similar proportion of the sample (80%) reported reading or participating in online discussion for the purposes of enhancing effects. This category included ‘learnt ways to enhance drug effects’ and ‘found out about new ways to get high’. Only 20 respondents who reported seeking information to enhance effects had never engaged in harm reduction. This group represented just 3% of all respondents who had ever tried to enhance drug effects through online research. These results indicate that Internet forums and the interaction through online communication play an essential role in harm reduction practices by reaching people who seek to enhance their drug use and making safer drug use part of the overall experience which people seek.

Many online interviewees regarded the accessibility of reliable information as the main advantage of online forums. For example, ‘collective responses’ (more likely to be found online) were given more weight than the opinions of single individuals. Online drug discussion was preferred in contrast to other sources (such as friendship groups), which were usually described as lacking expertise or equivalent experience (e.g. ‘Online you can talk to a diversity of people ... offline you generally get to talk to some pretty ignorant people’; ‘Here are people who have also been through what I have’). Forums provided access to information from a wider variety of people reporting different experiences and opinions, either for the purposes of comparison or because the information sought was only available from a small number of people (e.g. ‘I could talk to guys in pubs all my life and still never find one person who’s heard of 2C-B’). Perhaps the other central advantage of the Internet for discussing drugs was perceived anonymity in finding information, contributing information and interacting with people online. Interviewees described how online drug discussion protected them from divulging their drug use to people in their everyday lives, whom they believed would therefore stigmatize them (e.g. one interviewee said he would be ‘scared of people judging’ if he were seen ‘walking into’ a ‘centre in the street with all this info’).

In terms of which drug practices were affected by online drug discussion, we classified interviewee responses into eight categories (from most to least popular): (1) trying a drug for the first time (including both traditional and novel substances); (2) dosage; (3) content and purity; (4) combining and mixing; (5) settings of use; (6) methods of use; (7) preparing and extracting; and (8) drug sourcing and access. Most interviewees discussed discovering otherwise unknown drugs through the Internet (e.g. ‘It’s definitely taught me about some more obscure drugs which has led me to find them and try them’), with these discoveries triggering an interest in trying the drugs. Some interviewees did, however, indicate avoiding particular drugs after researching them online. Only 3 of 27 interviewees mentioned finding out online how to access drugs.

All public Internet forums we accessed were moderated, usually by volunteers. In some cases,
moderators actively promoted harm reduction by emphasizing moderate and informed drug taking. In others, any discussion that involved instructions or personal admissions was prohibited (e.g., ‘if someone just wants to get high or looking for a quick buzz they get called out pretty quickly’). Moderators also referred forum users to trusted information sources or invited experts (ambulance officers, drug educators) to answer questions. Forum rules also prohibited people using the forums to source drugs and people who did so were usually warned or banned from using the forums. In other words, while users of these forums were largely interested in greater knowledge about drug taking, their communications occurred in a setting that encouraged harm reduction.

**LIKELY IMPACTS OF BLOCKING PUBLIC DRUG WEBSITES**

Numerous popular international drug websites are likely to be refused classification under the proposed Australian Internet filtering policy. Pillreports.com contains information about the content and purity of pills sold as ecstasy, as well as interaction between users that are instructional or promotional. Drug harm reduction websites, including Erowid.org and Bluelight.ru, contain explicit instructional materials, often from drug users, about the most effective and safest ways to consume drugs, and personal narratives detailing drug experiences designed to assist and educate other drug users. These international sites are not currently affected by Australia’s classification system. If the proposed ISP-level filtering system was adopted however, these sites could be added to the banned list.

Our data suggest that such action, whatever its positive intent, would have negative consequences as drug discussions will be driven from public to private channels of communication, and away from moderated sites which actively encourage harm reduction. Most Australians will have limited or no access to: archives of peer-generated drug information, anonymous social support, official rules and social norms that regulate discussion, and wide and varied voices not otherwise accessible through alternative networks. Equally, blocking websites where people discuss drug use will hamper efforts to monitor drug users, which are currently undertaken by both health and law enforcement agencies, in order to produce interventions that are responsive to new drug trends. This action will also remove the possibility of engaging with communities, through their online forms, to produce better public health outcomes (see Barratt & Lenton, 2010).

**DEVELOPMENTS IN THE AUSTRALIAN INTERNET FILTER POLICY**

Having already begun regulation of Internet content hosted in Australia in the early 2000s (Allen & Long, 2004), the Australian government has been pursuing a more aggressive filtering approach to block international content as well. As part of the consultation process about filtering, in 2010, the government delayed introducing the legislation for mandatory ISP-level filtering so as to allow the Australian Law Reform Commission (ALRC) to review the scope of the categories which determine what can and should be censored. In National Drug Research Institute (2011) submission to the review by the ALRC, we argued that drug-related content should be understood from a public health perspective, showing how online drug discussion that would be blocked under the proposed filtering policy in fact constituted an effective component of harm reduction approaches and was not, on the whole, directly inciting drug use. Notably, the ALRC study of community attitudes towards media content found that content depicting drug use was rated the least offensive of all potentially banned content they considered (ALRC, 2012). The ALRC recommends that the scope of refused classification of content that ‘promotes, incites or instructs in matters of crime’ be confined to ‘serious crime’ and that the category ‘detailed instruction in the use of proscribed drugs’ be removed altogether. Should the ‘refused classification’ category remain if or when ISP-level Internet filtering is implemented, the ALRC recommended that only content classified into the most serious categories of sex abuse and violence be filtered (ALRC, 2012). While the review was underway, the three largest ISPs in Australia implemented a voluntary Internet filter that blocks Interpol’s blacklist of the ‘worst of the worst’ child abuse websites (Taylor, 2012). As recently as March 2012, Australian Communications Minister Stephen Conroy reiterated the government’s intent to implement a mandatory filtering system, but it is unclear how the government will respond to the ALRC’s recommendations to narrow the definition of refused classification (Taylor, 2012).

The regulation of Internet content in Australia illustrates the intersections between Internet content regulation policy and drug policy, intersections that reflect different understandings of the value and meaning of the circulation of information about drugs, and the benefit of the interaction between people through the Internet. The fluid, conversational nature of online content and the technical means by which blocking must occur, both tend towards an approach which censors ‘on suspicion’. The classification of specific media products (such as books, films, images) is based on a model where each instance of the material in question could be viewed and judgement made as to its suitability for specific audiences and, importantly, if the social benefit of the material justified circulation. Internet content cannot be accurately conceptualized as one-way or as static, rendering it impossible to assess the content but, instead, requiring that sites of communication and information...
be refused classification regardless of whether the content actually fits that judgment.

HIDDEN INTERNET SERVICES

A consequence of these attempts to regulate the public Internet is movement towards use of private networks and the hidden web. Our data indicate that private or hidden Internet forums were, in the current more permissive regime, seldom used by Internet-savvy drug users in 2007–2008. Five years later, drug websites accessible only through the ‘dark’, ‘deep’, ‘invisible’ or ‘hidden’ web are now emerging, possibly in part a response to increased surveillance and monitoring of the public forums. Such hidden services are those parts of the Internet that are effectively reached through the use of clients such as Tor (Tor Project, 2011) that anonymize the Internet protocol address of the Internet user. Hidden services are not indexed by search engines and are unlikely to be accessed by novice Internet users. These hidden Internet services, along with the emergence of the decentralized international cryptocurrency Bitcoin (2011), have enabled the building of completely anonymous online marketplaces where illicit drugs are bought and sold across international borders.

Silk Road is the most well-known online marketplace accessed via the hidden web (Barratt, 2012b). Drugs are available for sale under the following categories: ecstasy, cannabis, dissociatives, psychedelics, opioids, stimulants, benzodiazepines and ‘other’. Buyers rate sellers and provide comments about the quality of their products, how fast they ship, and their level of professionalism and discretion. These ratings establish the degree of trust that might be assigned to sellers. Silk Road is international in scope, representing buyers and sellers worldwide. Australian drug users and sellers are increasingly utilizing Silk Road in order to bring overseas-manufactured drugs into Australia through the postal system and to sell drugs from within Australia to other Australian buyers (Orsmy, 2012). While buying drugs online is not new, Silk Road’s use of encrypted electronic currencies and the secrecy afforded by the hidden web increase its attractiveness to drug market participants. That said, Silk Road is not entirely invisible. As discussed below, it serves as an example of how, to avoid some aspects of surveillance, drug websites can combine public communication with secure private communication.

THE IMPlications OF SILK ROAD FOR DRUG POLICY

Our preliminary analyses of the Silk Road website and discussion forums provide some evidence that in part the site serves, like the public discussion sites we have also researched, as a way of drug consumers reducing the harm of illicit drugs, particularly if compared to street-based drug marketplaces. For example, the forums at the site do include discussion of harm reduction, including resources for people who wish to reduce or eliminate consumption of particular drugs. However, there are more complex elements to Silk Road that also mean its existence is a challenge to our current assumptions about harm reduction, Internet information flows and online drug communities.

The stated intent of Silk Road founders is to challenge drug prohibition. In other words, while serving as a market place, the site also constitutes a form of political action both explicitly and in its attempts to use online technologies to evade closure. In January 2012, Silk Road founder Dread Pirate Roberts posted the first ‘State of the Road’ address in which he wrote:

It didn’t take long before word got out. Our little hidden market got the attention of the media and soon the politicians and law enforcement. But Silk Road was never meant to be private and exclusive. It is meant to grow into a force to be reckoned with that can challenge the powers that be and at last give people the option to choose freedom over tyranny. We fundamentally believe that people can thrive and prosper under these conditions and so far tens of thousands have done so in the Silk Road market. A revolution has been born.

Observation of the Silk Road forums indicates that many of the site’s users also see their participation in the marketplace as a wider protest against drug prohibition which they believe infringes upon their human rights. Silk Road founders and users believe they have the technical architecture necessary to evade law enforcement (through encryption and anonymization). The use of proxy servers, to disguise the origin of a request for access, also have the effect of mitigating against blocking of the site.

We have noted the potential harm-reduction elements of Silk Road and its use as a site of resistance against pathologizing drug discourses. At the same time, unlike the sites where more public discussion occurs, Silk Road primarily focuses on supply, thus increasing the immediacy with which the ‘desire’ for a drug promoted through online information can be satisfied. Thus, if Silk Road is exemplary of the only places which could be used for drug discussion, once a filtering approach blocks out those more typically used, then the attempt to block drug-related content online could, in fact, work against harm reduction approaches.

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NOTE

1. On 9 November 2012, the Australian government announced that it will no longer proceed with mandatory filtering legislation, because major ISPs had proceeded with blocking child abuse websites. The government also acknowledged the ALRC’s finding that blocking only child abuse websites accorded more closely with community standards than blocking the wider range of refused classification material.

REFERENCES


Notice of Correction:
The version of this article published online ahead of print on 12 December 2012 contained an error in the affiliation list. “School of Communication and Creative Arts, Deakin University, Burwood, Australia” should also have been listed as an affiliation for Matthew Allen. The error has been corrected for this version.