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Copyright Reform in the 21st Century: Adding Privacy Considerations into the Normative Mix

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1 Introduction

There is no question that copyright norms have undergone a foundational shift over the past 20 years. From the advent of the ‘Information Superhighway’ in the 1990s to the ‘Internet of Things’ today, digital communications media have revolutionised the creation, dissemination and infringement of copyrightable works. As the hard goods world of books, films, records, painting and sculpture has been transformed into a digital one, the scope of protection for authorial rights has come under increasing scrutiny.

The new technology of the ‘Digital Age’ has led to the creation of potentially new copyrightable forms of works that do not automatically fit within existing paradigms based on a hard goods world. These new forms are as diverse as online video games, smart phone apps, streaming video and personal health monitors. The former lock on the distribution

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of new works by large corporate content providers has disappeared as amateur authors increasingly create and distribute their own digital content. As cross-border communications replace former, geographically restricted, telecommunications media, territorially based, collective rights licensing agreements are more out of step with present business models. Similarly, as streaming media, public performance and broadcast rights replace old reproduction-based models of uploads and downloads of digital files, gaps and missteps in coverage have become increasingly apparent. Perhaps most notably, enforcement in the digital environment has become glaringly problematic.

All of these changes have led to copyright reform efforts in jurisdictions as diverse as Australia, China, New Zealand, Singapore, South Korea, the European Union (EU), Hong Kong, Japan, Canada and the United States. These efforts have been triggered by the unique challenges the digital environment has posed to the hard goods-based regimes of the Berne Convention for the Protection of Literary and Artistic Works (Berne Convention),² and the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).³ Neither treaty limited its application to the hard goods world, in fact. But their application over time has only demonstrated the gaps and inadequacies they share in facing the copyright challenges of the 21st century. These inadequacies have been exacerbated by the failure to deal with the myriad personal and data privacy issues that increasingly arise as a direct result of the new technologies used to create and distribute copyrighted works in the digital environment. This chapter is not intended as detailed analysis of present reform efforts, but will use examples of potential reforms incorporating critical new privacy-based considerations that could be followed to create a workable, harmonised ‘code’ of future norms that would allow Asian Pacific countries to take full advantage of the opportunities presented by the global digital environment, while retaining protections for personal privacy and human dignity.

The present movement for domestic reforms internationally has been matched by a rise in new copyright-related treaties, such as the Marrakesh Treaty to Facilitate Access to Published Works for Persons Who Are Blind,

2 Berne Convention for the Protection of Literary and Artistic Works 1161 UNTS 31 (opened for signature 9 September 1886, entered into force 5 December 1887), art 15(4) [Berne Convention].

3 Agreement on Trade-Related Aspects of Intellectual Property Rights 1869 UNTS 299 (adopted 15 April 1994, entered into force 1 January 1995) [TRIPS].

Visually Impaired or Otherwise Print Disabled (Marrakesh Treaty).⁴ Numerous draft treaties are currently in discussion before the World Intellectual Property Organization (WIPO), including the Draft WIPO Archive Treaty,⁵ the Draft Broadcast Treaty,⁶ and a Draft Treaty for the Protection of Traditional Cultural Expressions,⁷ that are considering fundamental normative changes in international copyright limitations and exceptions based on a perceived gap between present treaties and new technologies, including, respectively, practices that threaten access to information and content rights in broadcast signals, and indigenous peoples' rights to control their own heritage.

The major copyright multinational treaties dealing with the 'new' phenomenon of the internet, the WIPO Copyright Treaty (WCT)⁸ and its related-rights companion, the WIPO Performances and Phonograms Treaty (WPPT),⁹ were executed over 20 years ago. Although the Beijing Treaty on Audiovisual Performances (Beijing Treaty),¹⁰ dealing with related rights for audiovisual performers and producers, was executed more recently in 2012, it largely followed the foundational norms for performances set forth in the WPPT.¹¹ Major domestic reforms, such as the Digital Millennium Copyright Act (DMCA)¹² in the United States and the EU Directive on the harmonisation of certain aspects of

4 Marrakesh Treaty to Facilitate Access to Published Works for Persons Who Are Blind, Visually Impaired or Otherwise Print Disabled (adopted 27 June 2013, entered into force 30 September 2016) [Marrakesh Treaty].

5 See WIPO *Working Document Containing Comments on and Textual Suggestions Towards an Appropriate International Legal Instrument (In Whatever Form) on Exceptions and Limitations for Libraries and Archives* SCCR/ 26/3 (15 April 2013); see also Eve Woodberry *Treaty Proposal on Limitations and Exceptions for Libraries and Archives* (International Federation of Library Associations, 6 December 2013).

6 WIPO *Working Document for a Treaty on the Protection of Broadcasting Organizations* SCCR/27/2 REV (25 March 2014); see also WIPO *Revised Consolidated Text on Definitions, Object of Protection, Rights to be Granted and Other Issues* SCCR/34/3 (13 March 2017).

7 WIPO *Draft Articles for the Protection of Traditional Cultural Expressions* WIPO/GRTKF/IC/34/6 (14 March 2017).

8 WIPO Copyright Treaty 2186 UNTS 121 (opened for signature 20 December 1996, entered into force 6 March 2002), art 1(4) [WCT].

9 WIPO Performances and Phonograms Treaty 2186 UNTS 203 (adopted 20 December 1996, entered into force 20 May 2002) [WPPT].

10 Beijing Treaty on Audiovisual Works (adopted 24 June 2012, not yet in force) [Beijing Treaty].

11 These norms included reliance on the performers' making available right for exclusive control; compare WPPT, above n 9, arts 8 and 10 with Beijing Treaty, above n 10, arts 8 and 10; on the three-step test for exceptions and limitations; compare WPPT, above n 9, art 16 with Beijing Treaty, above n 10, art 13; and on technological protection measures to combat piracy; compare WPPT, above n 9, art 18 with Beijing Treaty, above n 10, art 15. Efforts to deal with new 'environmental' issues such as webcasting were basically tabled.

12 Digital Millennium Copyright Act 17 USC §§ 512, 1201, diverse [DMCA].

copyright and related rights in the information society (InfoSoc)¹³ also date from approximately the same period as the WCT and the WPPT.¹⁴ They have not been significantly altered since their respective dates of enactment. Perhaps even more notable, for the purposes of our analysis of the relevance of privacy issues to copyright reform for the digital environment, is that none of these instruments, including the Beijing Treaty,¹⁵ addressed the issue of the interrelationship between copyright and privacy on the internet. Neither have subsequent efforts, such as the Asian Pacific Copyright Code.¹⁶

The necessary question arises: why now? What is different about today's digital environment that has suddenly sparked this long-overdue evaluation of copyright boundaries? Part of the explanation is necessarily based on the need for sufficient experience with the reality of the altered circumstances of copyright utilisation in the digital environment. Copyright reform always evolves more slowly than the technological changes in communications media it must address. For example, in the United States, the first photographs (daguerreotypes) were created in the late 1830s. Yet copyright law was not altered to acknowledge that works created using this new medium qualified for protection as original works until the Supreme Court decision, *Burrow-Giles Lithographic Co v Sarony*, in 1884.¹⁷

But I believe the most significant reason for the explosion in reform efforts currently is because technology has not resolved the challenges faced by copyright owners in the digital environment. Early hopes that anti-circumvention regimes would provide adequate protection for technological solutions to the unauthorised use of copyrighted works have proven evanescent, as pirate websites have grown exponentially.¹⁸ The increased success of third parties in hacking technological protection measures, the rise of virtual private networks and dark nets that utilise

13 Directive 2001/29/EC on the Harmonisation of Certain Aspects of Copyright and Related Rights in the Information Society [2001] OJ L 167/10 [InfoSoc].

14 WCT, above n 8; WPPT, above n 9.

15 Beijing Treaty, above n 10.

16 Adrian Sterling 'Asian Pacific Copyright Code' in this volume.

17 *Burrow-Giles Lithographic Co v Sarony* 111 US 53 (1884).

18 See Susan Corbett 'Free Trade Agreements with the United States, Rulemaking and TPMs: Why Asian Pacific Nations Should Resist Increased Regulation of TPMs in their Domestic Copyright Laws' in this volume.

encryption to protect infringing activity, and the proliferation of pirated works due to even newer reproductive technologies, such as 3D printers, have created a renewed urgency for reform.

Yet, as we deal with the new realities of copyright in the global digital environment, it is critical that we avoid the mistakes of the past. We must acknowledge that there are new inputs that must be considered as we create the normative foundations for copyright protection in the 21st century.¹⁹ One of those critical new inputs concerns both personal and data privacy. Such concerns are no longer adjuncts to issues of copyright protection but instead argue for new normative values as we reconfigure the boundaries of authorial control in this new era of access and transformation.

2 What Privacy?

Privacy has no single definition internationally. The concept of privacy can include everything from the right to be left alone or ‘forgotten’; to the right to associational privacy; the right to avoid unwanted surveillance of either physical space or data; the right to a private space in one’s own physical surroundings or in one’s own mind (access to information); the right to control the dissemination of one’s unpublished works or images of private lawful activities; or the right to control the disclosure and use of personal identifying information and personal information.²⁰

This last category of ‘privacy’ has received the most attention in recent years. As used here, the term ‘personal identifying information’ is meant to include any information that can be used to identify an individual, directly or indirectly. Such information includes traditional categories, such as a name, address and social security number, as well as newer methods of source identification such as DNA and other biometric information, digital footprints, aggregated data and other aspects of so-called ‘big data’ that can be used to determine identity. This broad definition of privacy is intended to be co-extensive with, but not necessarily limited by, the definition for ‘personal data’ contained in the EU General Data Protection

19 See Lida Ayoubi ‘Copyright Harmonisation in the Asian Pacific Region: Weaving the Peoples Together?’ in this volume.

20 See generally Samuel D Warren and Louis D Brandeis ‘The Right to Privacy’ (1890) 4 Harv L Rev 193; see also Doris Estelle Long ‘Is a Global Solution Possible to the Technology/Privacy Conundrum?’ (2005) 4 J Marshall Rev Intell Prop L 6.

Regulation (GDPR),²¹ in South Korea's Personal Information Protection Act (PIPA)²² and for 'personal information' contained in China's 2016 Cybersecurity Law.²³

Under the GDPR, protected 'personal data' includes 'any information relating to an identified or identifiable natural person ("data subject")'.²⁴ An 'identifiable natural person' is:²⁵

one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person.

South Korea's PIPA defines 'personal data' even more broadly to also include:²⁶

information pertaining to any living person that makes it possible to identify such individual by his/her name and resident registration number, image, etc. (including the information which, if not by itself, makes it possible to identify any specific individual if combined with other information).

China's definition of 'personal information', under its new Cybersecurity Law, reflects a similarly open-ended approach by including:²⁷

21 Regulation 2016/679 General Data Protection Regulation [2016] OJ L119/1 art 4(1) [GDPR].

22 Personal Information Protection Act 2011 (South Korea) [PIPA].

23 Cybersecurity Law 2016 (China), art 76(5). Under art 79, the effective date of China's Cybersecurity Law was 1 June 2017. Due to strong criticism, the enactment of the provisions regarding cross-border transfer and data retention was delayed until 31 December 2018. The effective date for the remaining provisions, including the notice and takedown (NTD) provisions, however, remained unchanged; see Joe McDonald 'China postpones portion of cybersecurity law' *Associated Press* (online ed, New York, 31 May 2017). Additional regulations will undoubtedly be issued prior to this date to clarify the data localisation issues raised by these provisions.

24 GDPR, above n 21, art 4.

25 Article 4.

26 PIPA, above n 22, art 2(1).

27 Cybersecurity Law 2016 (China), art 76(5). A Personal Information Security Specification was published in January 2018, with an effective date of 1 May 2018, which defined a new category of 'sensitive personal information' that should receive heightened protection. Information Technology-Personal Information Security Specification GB/T 35273-2017 (2018) (China) Center for Strategic and International Studies www.csis.org [Personal Information Security Specification]. Although the Personal Information Security Specification is voluntary, it will likely be applied as a guide to measure compliance. It is discussed in greater detail below in Part 4.4.

all kinds of information, recorded electronically or through other means, that taken alone or together with other information, is sufficient to identify a natural person's identity, including, but not limited to, natural persons' full names, birth dates, identification numbers, personal biometric information, addresses, telephone numbers, and so forth.

Yet in the interstices between copyright and privacy and, in particular, in the normative spaces addressed in this chapter, 'privacy' is not simply limited to identifying data, no matter how broadly defined. To the contrary, other aspects of 'privacy' that relate to a sense of personal control over one's space and actions (surveillance) or to one's image or works (unauthorised publication or dissemination) are equally relevant in creating viable copyright norms for the 21st century. Such spatial or informational privacy includes considerations regarding the unauthorised dissemination of private correspondence or images of private sexual activity. In the context of the internet, it also includes the right to avoid the collection of personal information about one's web viewing or reading habits.²⁸

In addition, corollaries to securing spatial and informational privacy are also relevant in the creation of copyright norms. These corollaries include the protection of encryption and other technological methodologies to secure privacy rights in the 'Digital Age' and their unauthorised breach through such efforts as hacking, phishing and cyber espionage. They also include content-based privacy concerns from other legal regimes such as protection against 'sexting' and 'revenge porn'.

The purpose of this wide-ranging definition is not to provide an all-inclusive list of topics to be covered within the context of copyright reform. Instead, it is to underscore the need for an approach that welcomes and actively seeks other normative inputs in creating the next generation of global copyright regimes. It is only through a fluid and more flexible approach that we can assure a more appropriate and sustainable future copyright regime for the 'Digital Age', and beyond.

28 Unlike other jurisdictions – such as Australia, China, Japan, the Philippines, Singapore and the EU, which provide relatively strong protection regarding data collection practices – in the United States, such considerations may be more difficult to bring into present copyright reform discussions given recent Congressional action overturning such protections imposed by regulations passed by the Federal Communications Commission, see Joint Resolution Pub L No. 115-22, 131 Stat 88 (2017). Although there are other laws and regulations that provide partial protection for these activities, this recent legislative action undoubtedly makes the inclusion of such considerations as part the United States copyright reform highly problematic.

3 Breaching the Copyright/Privacy Wall

Even in the pre-digital era, the wall between copyright and privacy regimes was not an absolute one. To the contrary, data privacy concerns often arose in the context of securing information regarding the identity of the manufacturers and distributors of pirated goods. Courts routinely balanced the need for such disclosure as a matter of legal relevance with an individual's right of privacy. The need for identity disclosure became even more severe with the explosion of pirated works distributed through early peer-to-peer networks such as Napster and Kazaa.²⁹ It has continued apace as anonymiser technologies have made the securing of such information even more difficult. As requests for end-user identities increased, privacy considerations were initially given relatively short shrift.³⁰ For example, under the DMCA, the United States originally mandated end-user identity disclosures by affected online service providers (OSPs) without judicial oversight.³¹ Over time, however, even in the United States, with its relatively limited protections for end-user privacy generally, privacy protections have played an increasingly significant role in controlling such disclosures.³²

The interconnections between copyright and personal privacy regimes are no longer limited to issues of identity disclosure. To the contrary, data privacy issues now affect such critical questions as the admissibility of evidence of infringing activity secured through the use of website scraper technologies and automatic takedown bots. In *Arista Records LLC v DOE 3*,³³ for example, the Court expressly held that the right to anonymity in internet communications could outweigh copyright interests in identity disclosure (although, in this particular instance, privacy interests did not outweigh those of the copyright owner).

29 Napster www.napster.com; the Kazaa website is no longer active.

30 See DMCA, above n 12, § 512(h) (establishing an identity disclosure subpoena process that mandated disclosure on good faith request).

31 § 512(h). See discussion below.

32 See *London-Sire Records Inc v Doe 1 Et Al* 542 F Supp 2d 153 (D Mass 2008); *BMG Canada Inc v John Doe* 2004 FC 448, [2004] 3 FCR 241; Case C-461/10 *Bonnier Audio AB v Perfect Communication Sweden AB* [2012] ECR I-219.

33 *Arista Records LLC v DOE 3* 604 F 2d 110 (2d Cir 2010). See also *Forman v Henkin*, Slip Op 01015 (NY Ct.App 2018) (acknowledging that private information on Facebook may be discoverable by 'balancing the potential liability of the information sought against any specific "privacy" or other concerns raised by the account holder').

Similarly, the enforceability of injunctions blocking end-user access to identified pirate websites is frequently decided by balancing personal privacy interests against copyright protections.³⁴ In brief terms, website blocking is achieved by a technological impediment, imposed by an OSP, that prevents end users from accessing designated pirate websites. Such blocks include ‘IP blocks’ that prohibit access to specific internet protocol addresses, ‘DNS blocks’ that block access to specified domain names and ‘proxy blocks’ that route the traffic on a site through a proxy server for filtering. The EU, for example, has insisted on ‘proportionality’ in balancing copyright and privacy interests when seeking to impose website blocking solutions to digital piracy.³⁵ Such proportionality does not prevent the enforcement of website blocking injunctions,³⁶ but it does make such relief more difficult to secure.³⁷ By contrast, in Australia, privacy issues are not expressly considered in determining whether a block should issue.³⁸ This approach may change, however, as Australia’s efforts to establish broader rights to protect personal privacy continue.³⁹

Finally, even decisions allowing filtering to remove infringing content are impacted by privacy considerations.⁴⁰ Recent attempts to impose filtering obligations on OSPs through government or private regulation have been challenged because their application directly impacts end-user privacy rights.⁴¹

Even activities perceived to be related to the traditional domain of privacy law, such as hacking and surveillance, have increasingly intruded into the arena of copyright.⁴² From the heightened surveillance possibilities

34 See Case C-70/10 *Scarlet Extended v Société belge des auteurs, compositeurs et éditeurs SCRL (SABAM)* [2011] ECR I-771.

35 *Scarlet Extended*, above n 34, at [36].

36 See *EMI Records Ltd & Ors v British Sky Broadcasting Ltd & Ors* [2013] EWHC 379 (Ch).

37 See *Scarlet Extended*, above n 34.

38 See *Roadshow Films Pty Ltd v Telstra Corporation Ltd* [2016] FCA 1503; *Foxtel Management Pty Limited v TPG Internet Pty Ltd* [2017] FCA 1041.

39 See Narelle Smythe and Morgan Clarke ‘A statutory cause of action for serious invasions of privacy on the way for New South Wales?’ (17 March 2016) Clayton Utz www.claytonutz.com; see also Commonwealth of Australia *Issues Paper: A Commonwealth Statutory Cause of Action for Serious Invasion of Privacy* (September 2011).

40 See Case C-360/10 *Belgische Vereniging van Auteurs, Componisten en Uitgevers CVBA (SABAM) v Netlog* [2012].

41 Jeremy Malcolm ‘Upload Filtering Mandate Would Shred European Copyright Safe Harbor’ (12 October 2016) Electronic Frontier Foundation www.eff.org (contending such regulations violate personal privacy and access to information provisions of the European Charter of Fundamental Rights).

42 See Susy Frankel ‘The Copyright and Privacy Nexus’ (2005) 36(3) *VUWLR* 507 (analysing connections between privacy and, inter alia, unauthorised distribution of personal photographs).

of drone photography to the rapid unauthorised dissemination of personal information through the digital posting of leaked documents and personal sexting images, privacy has become inextricably linked with copyright. The first attempts to remove leaked information regarding membership in a website that promoted marital infidelity in the United States, Ashley Madison,⁴³ was based on its purported violation of the copyright in the membership list.⁴⁴ Early efforts to remove photos of private consensual sexual activity, distributed without the participant's consent in cases of 'sexting' or 'revenge porn' in the United States have similarly focused on copyright and the ability to take down infringing works.⁴⁵ In fact, such efforts have proven so popular that companies, such as DMCA Defender,⁴⁶ have been created to help victims remove such items from the diverse array of internet sites, including Twitter, on which they can appear. New Zealand even has a specific provision in the Copyright Act 1994, under its moral rights part,⁴⁷ giving the subject of photos commissioned for private or domestic purposes the right to prevent their unauthorised public distribution, exhibition or communication.⁴⁸

4 How Privacy Considerations Can Impact Copyright Reform

4.1 Reforming Notice and Takedown Regimes and Other Digital Enforcement Mechanisms

One of the most contentious issues facing copyright owners and the public today is the method used to remove infringing content from digital networks.⁴⁹ Regardless of the precise economic impact of digital piracy, there is no question that the proliferation of illegal content on the internet

43 Ashley Madison www.ashleymadison.com.

44 Hope King 'Ashley Madison tries to stop the spread of its leaked data' (21 August 2015) CNN money.cnn.com.

45 See 17 USC § 512(c). See also Ian Sherr 'Forget being a victim: What to do when revenge porn strikes' (13 May 2015) CNET www.cnet.com.

46 dmca defender.com.

47 Part 4.

48 Section 105.

49 In fact the NTD provisions of the DMCA, above n 12, have already been the subject of four days of public roundtables and an ongoing study by the United States Copyright Office, including two requests for public comments that have generated over 92,000 submissions to date. United States Copyright Office 'Section 512 Study' www.copyright.gov.

and on other digital platforms is the greatest challenge facing content owners. Most countries that have considered some form of a notice and takedown (NTD) regime to alleviate the problem have achieved less than stellar results. Privacy considerations would not only place such takedown techniques in a different light, they would also provide unique insights into how NTDs can be reformed to achieve the balanced approach to protection between authors' and end users' rights they were originally designed to achieve.

Internationally, NTD procedures have evolved from the original NTD procedures of the DMCA,⁵⁰ to the 'three strikes' rule of the French Haute Autorité pour la diffusion des oeuvres et la protection des droits sur internet (Hadopi),⁵¹ to the Notice and Notice provisions of the Canadian Copyright Modernization Act (CMA)⁵² and variations of this new iteration of the 'graduated response' to online piracy, including the 'six strikes plus' rules of current private initiatives.⁵³ None has proven wholly satisfactory.

Under the DMCA,⁵⁴ on receipt of an appropriate notice of infringement from a copyright holder, the OSP must take down the identified material or lose its safe harbour. Such takedown can occur either by actual removal of the identified material from the website or by disabling access to it. To secure content takedowns, copyright owners must provide a written notice containing identification information regarding the infringing material, including name and locational data,⁵⁵ along with a statement

50 DMCA, above n 12, § 512(c). Other jurisdictions that have adopted a similar NTD process include: South Korea (Copyright Act 1957, art 103); Singapore (Copyright Act 1987 (revised edition 2006), art 193D); and the EU Directive 2000/31/EC on Electronic Commerce [2000] OJ L178/1, art 14. The efficacy of this process, particularly where it lacks a stay-down requirement, has been severely criticised. See Devlin Hartline 'Endless Whack-A-Mole: Why Notice-and-Staydown Just Makes Sense' (14 January 2016) Centre for the Protection of Intellectual Property www.cpip.gmu.edu; but see Elliot Harmon "Notice-and-Stay-Down" Is Really "Filter-Everything" (21 January 2016) Electronic Frontier Foundation www.eff.org.

51 Code de la Propriété Intellectuelle 1992 (France), art L-331-25. Other countries that have adopted a similar 'three strikes' graduated response include New Zealand (Copyright Act 1994, s 122B) and South Korea (Copyright Act 1957 (South Korea) art 133*bis*).

52 Copyright Act RSC 1985 c C-42, art 41.25. Other countries have adopted a graduated response requiring notice and notice with no obligation of takedown absent a court order, and no limit on the number of notices (unlike the 'three-strikes' rule), see Digital Economy Act 2010 (UK), s 3, inserting s 124A into the Communications Act 2003.

53 See discussion below.

54 DMCA, above n 12.

55 § 512(c)(3).

of good faith on the part of the copyright holder.⁵⁶ Where an OSP acts in good faith in response to a notice of infringement, it will not be liable so long as it promptly notifies the subscriber of its actions, provides the complaining party with any counter notifications it receives from the end user and replaces any removed material subject to a proper counter complaint within 10 to 14 days of receipt of the counter notice, unless the OSP receives notice from the original complaining party that it has filed a lawsuit regarding the material in question.⁵⁷ Similar NTD provisions have been adopted by a variety of countries, including China, New Zealand, Singapore and South Korea; however, the precise timing of such takedowns has varied.⁵⁸

The efficacy of these takedown procedures has been hotly contested. Content owners criticise this process because there is no general obligation for OSPs to monitor content to assure that removed material is not reposted. OSPs criticise the process because compliance has become extremely costly. According to Google's Transparency Report, it responds to over two million takedown requests a day.⁵⁹ End users criticise the process because it is frequently abused by copyright owners who seek to remove lawful material. Such removal is increasingly secured through the use of automated bots, which do not examine the material to determine if the use at issue qualifies as a fair or permitted one despite the legal obligation to do so in some countries.⁶⁰ Although, similar to other countries,⁶¹ the NTD process under the DMCA allows end users

56 § 512(c)(3) (they must also include an affirmation of accuracy).

57 § 512(g).

58 Regulation on Protection of the Right to Network Dissemination of Information (State Council Order No. 468, 18 May 2006, amended in accordance with the Decision of the State Council on Amending the Regulation on Protection of the Right to Network Dissemination of Information on 30 January 2013) (China), art 15 (takedown must occur 'promptly') [Network Regulations (China)]; Copyright Act 1994 (NZ), s 92C (takedown 'as soon as possible'), Copyright Act 1987 (Singapore), art 193D(2)(b)(iii) (OSP 'expeditiously takes reasonable steps to remove or disable access'); Copyright Act 1957 (South Korea), art 103(2) (OSP must 'immediately suspend the reproduction and interactive transmission'); but see art 133*bis* (establishing a three strikes graduated response in certain cases); but see Copyright Act 1994 (NZ) s 122B (establishing three strikes graduated response for the issuance of enforcement notices intended to result in OSP account suspensions for alleged infringing file sharing).

59 See Google 'Transparency Report' (10 March 2011 – 7 July 2017) Google www.google.com.

60 See *Lenz v Universal Music Corp* 572 F Supp 2d 1150 (ND Cal 2008). For a further discussion of the relationship between fair use and NTDs, see below.

61 Network Regulations (China), above n 58, arts 16 and 17; Copyright Act 1987 (Singapore), art 193DA.

to challenge unauthorised takedowns. Incomplete studies and anecdotal evidence seems to indicate that only a small percentage of end users actually utilise the process.⁶²

While the first generation of NTD regimes allowed for relatively rapid removal of infringing material, they did not end the cycle of notice, removal, repost that these regimes created (often referred to as a game of ‘whack a mole’).⁶³ The ‘three strikes’ rule of the French Hadopi,⁶⁴ established in 2009,⁶⁵ arguably resolved this problem by providing that end users who engaged in three instances of online copyright infringement within a specified period of time could have their internet access suspended for a period of up to one year.⁶⁶ Infringing acts were broadly defined to include the unauthorised reproduction, representation, distribution or communication to the public.⁶⁷ As opposed to a single notice, three notices were required before the potential suspension penalty could attach.⁶⁸ Ultimately, the threat of so draconian a penalty, along with the practical realities in effectuating an actual suspension of access to the internet (as opposed to a single OSP), doomed the three strikes approach of Hadopi.⁶⁹ In contrast to Hadopi’s internet suspension approach, however, New Zealand’s, South Korea’s and Taiwan’s three strikes approach were directed to suspension from a particular OSP’s account.⁷⁰ In addition, New Zealand’s law was directed expressly to instances of infringement based on ‘communication to the public’.⁷¹ By narrowing the scope of the access denial penalties, these laws arguably provided a more workable version of the three strikes regime.

62 Daphne Keller and Annemarie Bridy ‘DMCA Counter-Notice: Does It Work To Correct Erroneous Takedowns?’ (17 January 2017) Stanford Law School: The Centre for Internet and Society cyberlaw.stanford.edu.

63 ‘Whack-a-mole’ refers to the general ineffectiveness of the present process. You may try to hit a mole but it moves so quickly and disappears down holes so rapidly you cannot really hit one.

64 Code de la Propriété Intellectuelle 1992 (France), above n 51.

65 Established by Loi favorisant la diffusion et la protection de la création sur Internet 2009 (France).

66 Code de la Propriété Intellectuelle 1992 (as at 2009) (France), above n 51, art L-331-25.

67 Article L-336-3.

68 Article L-331-26.

69 Code de la Propriété Intellectuelle 1992 (France), above n 51.

70 Code de la Propriété Intellectuelle 1992 (France), above n 51; Copyright Act 1994 (NZ), s 122P; Copyright Act 1957 (South Korea), art 133*bis*; Copyright Act 2016 (Taiwan), art 90*quinquies*. To date, the suspension provisions of the Copyright Act 1994 (NZ) under s 122P have not yet been brought into force: s 122R requires enactment ‘by Order in Council’ from the Governor-General, which has not yet occurred.

71 Copyright Act 1994, s 122P. Unfortunately s 122P has yet to be brought into force, above n 69.

In the next iteration of the graduated response NTD, Canada enacted art 41.25 of the CMA,⁷² establishing a 'Notice and Notice' approach that further extended the time for removal of infringing material. The CMA does not require OSPs to remove identified infringing material. Instead, it obligates them to forward notices of infringement from copyright owners and retain end-user identity information to turn over on court order to the copyright owner for subsequent legal action.⁷³ While this process improves end-user education and eliminates the problem of abusive removals, its graduated response does not contain any rapid removal obligations, even at the end of the Notice cycle, without court action. The 'Notice and Notice' approach has proven extremely popular. Subsequent private arrangements between content providers and OSPs, such as the 'six strikes' agreement (Copyright Alert System), established in 2011 between various OSPs and content owners in the United States, including Verizon, AT&T, the Motion Picture Association of America and the Recording Industry Association of America,⁷⁴ and the Creative Content program in the United Kingdom,⁷⁵ have followed a similar approach. In fact, the phrase 'six strikes' appears a misnomer since there is no required takedown or account suspension after receipt of six notices of infringing conduct. As with the Notice and Notice approach of the CMA, content owners would have to seek takedown relief through the courts.⁷⁶

72 Copyright Act RSC 1985 c C-42, art 41.25.

73 Article 41.26. Similar identity disclosure obligations on court order exist under New Zealand's copyright law. See Copyright Act 1994, ss 122J and 122Q (identity disclosure on Tribunal and Court order, respectively). The identity disclosure provisions by court order under s 122Q are not yet in force: see s 122R (requiring enactment by 'Order of the Council' for this provision that has not yet occurred).

74 In 2017, the Copyright Alert System was 'concluded' with the statement that it 'succeeded in educating many people about the availability of legal content, as well as about issues associated with online infringement' Centre for Copyright Information 'Statement on the Copyright Alert System' (press release, 27 January 2017). Others suggested its 'conclusion' was not the result of educational success, but of its failure to deal effectively with persistent infringers: see Jacob Kastrenakes 'Six strikes' anti-piracy initiative ends after failing to scare off "hardcore" pirates' (30 January 2017) The Verge www.theverge.com. This system is slowly being replaced by a series of private Trusted Notifier Agreements between copyright holders and domain name registrars in which the registrars require domain name owners to remove content identified by the copyright holder as infringing or lose their domain names. The effective impact of these private arrangements remain hotly contested. Compare Anne Marie Bridy 'Notice and Takedown in the Domain Name System: ICANN's Ambivalent Drift into Online Content Regulation' (2017) 17 Wash & Lee L Rev 1345 with Paul Vixie 'Notice, Takedown, Borders and Scale' (1 March 2017) Circle ID circleid.com.

75 This program is currently known as 'Get It Right from a Genuine Site': see Get It Right From a Genuine Site www.getitrightfromgenuinesite.org. Notices under the 'Get It Right' program reportedly were first issued in February 2017. See also Andy 'UK Piracy Alerts: The First Look Inside the Warning System' (10 February 2017) Torrent Freak torrentfreak.com.

76 Copyright Act RSC 1985 c C-42.

The trend toward delayed removal of infringing material from the internet in the most recent iterations of NTDs is problematic, given the rapidity with which material spreads in the digital environment. One of the reasons for the continued popularity of the NTD process under the DMCA in the United States⁷⁷ has been its utility in dealing with non-copyright issues, such as removing fake mirror websites that mislead consumers including shadow bank and consumer products sites. These shadow websites are often used to support phishing attacks, by securing personal information from unsuspecting consumers that can then be used in various criminal and fraudulent activities, including identity theft. NTD processes allow for a quick removal of such websites while investigations and court actions based on the fraudulent activity proceed along a separate track. As noted above, DMCA NTD processes have also proven popular in removing sites that disseminate materials that violate individual privacy, such as the membership list from the Ashley Madison website.⁷⁸ Although other claims based on the illegal conduct that secured these lists, including violation of anti-hacking provisions under the Computer Fraud and Abuse Act,⁷⁹ might be used to secure similar relief, it would not be so quickly achieved.

While the need for swift removal of content based on its copyrighted nature might be subject to dispute, when privacy considerations are added into the normative mix swift removal becomes a viable and arguably even a necessary solution. But privacy issues also require a more nuanced approach to takedown, since abuse could have serious effects beyond chilling free speech. Moreover, coverage decisions would not be made solely on the existence of copyright.

Where the subject matter or the circumstances surrounding dissemination raise privacy issues in connection with copyrighted materials, rapid takedowns serve a critical role in protecting personal rights. Pirated works generally cause monetary harm. By contrast, private diaries, surveillance videos, child pornography, cyberbullying, sexting and other content whose unauthorised dissemination violates personal privacy cause emotional harm. In some cases, such as revenge porn and cyberbullying, emotional harm is so severe that some subjects have committed suicide as a result of such unauthorised communications. The longer such content

77 DMCA, above n 12.

78 See discussion above, Part 3; DMCA, above n 12; Ashley Madison, above n 43.

79 18 USC § 30.

remains available on the internet, the greater the emotional harm. Rapid takedown may not fully eliminate emotional harm, but it certainly helps stop its growth.

Even under the takedown procedures that obligate removal of infringing material, rapid takedowns are not so rapid. Removal under Singapore's Copyright Regulations must occur within 14 days.⁸⁰ Other countries, such as China, Australia and the United States, require 'prompt' or 'expeditious' removal.⁸¹ New Zealand requires removal 'as soon as possible'.⁸² None of these set forth a specific time frame for action.

In contrast, the New Zealand Harmful Digital Communications Act 2015 (HDCA) requires takedown by the OSP within 48 hours of receipt of appropriate notice from the affected subject.⁸³ The HDCA applies to 'digital communications' that 'cause serious emotional distress'.⁸⁴ It is not a copyright statute, but it serves as a useful model for the types of privacy concerns that would be implicated if privacy considerations were included in the reformation of present NTD processes for copyrighted works. Among the harmful communications covered by the HDCA are cyberbullying, sexting and the unauthorised dissemination of 'intimate visual recordings' made 'without the knowledge or consent of the individual who is the subject'.⁸⁵ To qualify as an 'intimate visual recording' under the HDCA, the image must have been made in 'a place which, in the circumstances, would reasonably be expected to provide privacy'.⁸⁶ A covered 'digital recording' includes depictions and accompanying text concerning private sexual activity.⁸⁷

The HDCA, similar to the DMCA, requires OSPs to forward copies of complaints to the end user and allows for counter notification to prevent removal or secure reposting of the affected work.⁸⁸ Either party can also seek quick relief from Netsafe, the approved agency for reviewing complaints,

80 Copyright (Flagrantly Infringing Online Location) Regulations 2014 (Singapore), s 3.

81 Network Regulations (China), above n 58, art 15 ('promptly'); Copyright Regulations 1969 (Cth), r 20J ('expeditiously'); DMCA, above n 12, § 512(c)(1)(C) ('expeditiously').

82 Copyright Act 1994, s 92C.

83 Harmful Digital Communications Act 2015, s 24 [HDCA]. See discussion below, at 4.2, for an examination of the shift from author to subject ability to take down violating materials.

84 HDCA, above n 83, s 24(2).

85 Section 4.

86 Section 4.

87 Section 4.

88 Section 4.

and from the courts (after the required agency review).⁸⁹ This allows for a necessary safety net in cases of abusive or improper requests or OSP reluctance to remove end-user content.

Privacy considerations would undoubtedly support the institution of some form of rapid takedown in copyright reforms at least for certain works. Given the content-specific nature of the covered works – they must violate the requisite privacy interests – actual review prior to a subject’s issuing a takedown request would likely be mandated. Yet in some NTD processes, such content review is already required. For example, although the DMCA only requires that copyright owners make a ‘good faith declaration that use of the material in the manner complained of is not authorised by the copyright owner, its agent, or the law’,⁹⁰ recent decisions have indicated that such ‘good faith’ basis does not eliminate the obligation to review identified content for fair use exceptions. In *Lenz v Universal Music Corp*,⁹¹ the OSP had taken down a 29-second video containing the defendant’s young children dancing in the family’s kitchen while a poor-quality sound track of ‘Let’s Go Crazy’ by Prince and the Revolution played in the background. The trial court found that Universal was obligated to consider whether Lenz’s use of the song qualified as a fair one before seeking its takedown.⁹²

Undoubtedly, some evaluations of fair use will be more complicated than others. But in the majority of cases, a consideration of fair use prior to issuing a takedown notice will not be so complicated as to jeopardize a copyright owner’s ability to respond rapidly to potential infringements. The DMCA already requires copyright owners to make an initial review of the potentially infringing material prior to sending a takedown notice; indeed, it would be impossible to meet any of the requirements of Section 512(c) without doing so. A consideration of the applicability of the fair use doctrine simply is part of that initial review [A] full *investigation* to verify the accuracy of a claim of infringement is not required.

89 Section 8; Harmful Digital Communications (Appointment of Approved Agency) Order 2016.

90 DMCA, above n 12, § 512(c)(3).

91 *Lenz v Universal Music Corp* 801 F 3d 1126 (9th Cir 2015).

92 *Lenz v Universal Music Corp* 572 F Supp 2d 1150 at 1155–1156 (ND Cal 2008) aff’d 801 F 3d 1126 (9th Cir 2015) (emphasis added).

By using a ‘good faith’ standard,⁹³ the DMCA allows content owners to make good faith judgments about fair use without penalty. Leniency in harmful communications reviews would similarly give breathing space to subjects who seek good faith removal of such communications.

One of the difficulties with NTDs has been the potential for abuse. In response to a recent roundtable on reform held by the United States Copyright Office,⁹⁴ Google identified several recent instances of abuse, including flooding an OSP with demands to remove non-existent websites to ensure that all copies of an identified infringing work are removed from all potential locations and a demand by a lawyer seeking removal of a blog post criticising the lawyer for plagiarising content on his website.⁹⁵ There are also countless examples of clearly acceptable instances of fair use/fair dealing that have been removed inappropriately.⁹⁶ The potential for abusive complaints could be even greater where the basis for takedown is its ‘harmful’ nature. Allegations that an internet provider hosts such content could create significant reputational harm that is not generally present even in cases of pirate websites. To reduce such abuses, NTD reform would require strong penalties for knowingly making wrongful requests for takedowns.

Section 512(f) of the DMCA, for example, imposes damages, including costs and attorneys’ fees, against ‘any person who *knowingly materially misrepresents* ... that material or activity is infringing’.⁹⁷ The damages include those:⁹⁸

incurred by the alleged infringer, by any copyright owner or copyright owner’s authorized licensee, or by a service provider, who is injured by such misrepresentation, as the result of the service provider relying upon such misrepresentation in removing or disabling access to the material or activity claimed to be infringing, or in replacing the removed material or ceasing to disable access to it.

93 DMCA, above n 12, § 512(c)(3).

94 ‘Section 512 Study: Announcement of Public Roundtable’ (18 March 2016) 81(53) *Federal Register* 14896 at 14896.

95 Letter from Google Inc to Karyn Temple Claggett (Acting Register of Copyrights) regarding Section 512 Study: Request for Additional Comments (21 February 2017).

96 See *Online Policy Group v Diebold Inc* 337 F Supp 2d 1195 (ND Cal 2004); *Lenz v Universal Music Corp*, above n 92. See generally Jennifer Urban, Joe Karaganis and Brianna L Schofield ‘Notice and Takedown In Everyday Practice’ (Public Law Research Paper No. 2755628, UC Berkley, March 2017) [Takedown Report].

97 DMCA, above n 12, § 512(f) (emphasis added).

98 § 512(f).

Although Section 512(f) has been underutilised,⁹⁹ it represents an example of the type of penalty assurance required to reduce abuse of takedown rights.

While adding privacy concerns into copyright reform should give rise to a reconsideration of the importance of rapid takedowns, combined with penalties against abuse of such processes, the normative values derived from this exercise are not so circumscribed. To the contrary, by establishing a process that recognises a content-based approach to rapid takedown, the use of this differential approach does not have to be so narrow. Rapid takedown could also be established for works for which the economic harm of its unauthorised communication to the public is significantly greater than for other works. The clearest example would be commercial works that are in their pre-release periods, when the unique harm caused by their unauthorised release causes a special type of artistic harm. In support of the Family Entertainment and Copyright Act of 2015 (US), which established specific criminal penalties for the unauthorised distribution of copyrighted works ‘being prepared for commercial distribution’,¹⁰⁰ Congressman Howard Berman of the United States House of Representatives recognised that:¹⁰¹

Unauthorized prereleases are unfair to an artist because his or her song is circulating even before it is in its final form. Just as we edit letters and speeches, we must allow songwriters to tweak and refine their works. They deserve to have the tools to penalize those who thrive on the ability to leak a song or CD before it is available in stores or other legitimate avenues of commerce.

In a similar vein, during the initial premiere (public release) stage of motion pictures and other works, income potential is at its highest and pirated copies can cause their greatest direct economic harm to the bottom line.¹⁰² This unique status would also argue for rapid NTD of pirated versions of such works.

⁹⁹ See Takedown Report, above n 96.

¹⁰⁰ DMCA, above n 12, § 506(a)(1)(C).

¹⁰¹ (19 April 2005) 151(47) Cong Record 109/1 at H2118 (statement of Howard Berman).

¹⁰² At H2118: ‘Distributing a film before final edits are made can undermine artistic integrity and can also harm the film’s commercial prospects because the release is typically coordinated with a marketing effort.’

4.2 The Author/Subject Dichotomy

As is clear from the HDCA,¹⁰³ one of the critical distinctions between copyright- and privacy-focused takedown regimes is the identity of the person whose rights are at issue. Copyright at its heart is focused on authors, who, by definition, are the creators of the material sought to be removed. By contrast, those who seek takedowns of ‘harmful communications’, including in particular those that violate personal privacy, are the subjects of such materials. With the exception of private works distributed without authorisation, in most cases, the individuals seeking takedown do not presently own any copyright interest in such materials. This shift in identity of the protected rights holder does not eliminate the relevancy of privacy considerations. However, it admittedly makes them a secondary factor in NTD reforms, unless privacy considerations are also used to redefine authorial rights.

Despite the critical role that authorship plays in the control of rights under copyright, the term is undefined in governing multilateral treaties. With some noted exceptions based on the unique collaborative nature of films and sound recordings,¹⁰⁴ ‘authors’ are generally defined as the human originators of a particular work. Even for countries such as the United States,¹⁰⁵ South Korea¹⁰⁶ and Japan,¹⁰⁷ which recognise non-human authorship in the form of a ‘work for hire’, the entity may be non-human, but the actual creators of the work are still human. In today’s digital environment, new technologies have created truly potential non-human ‘authors’, including works created by artificial intelligence.

From the copyright ownership of buildings and light displays reproduced in panoramic photos,¹⁰⁸ to the authorship of selfies taken by a monkey,¹⁰⁹ and oil paintings created by Artificial Intelligence,¹¹⁰ the contours

103 HDCA, above n 83.

104 See Directive 2006/116/EC on the term of protection of copyright and certain related rights OJ L372/12, art 2(1) (establishing that the ‘principal director’ of a cinematographic or audio visual works shall be considered an author) [Copyright Directive]; Copyright Act 1968 (Cth), s 98 (establishing the ‘maker’ of a cinematographic work as the copyright holder and specifying such ‘maker’ can be the ‘director’ where the film is not a commissioned work); *16 Casa Duse, LLC v Merkin* 791 F 3d 247 (2d Cir 2015) (holding producer was author of film).

105 DMCA, above n 12, § 201(b).

106 Copyright Act 1957 (South Korea), art 9.

107 Copyright Act 2010 (Japan), art 15(1).

108 Doris Estelle Long ‘World Finds Itself in Quandary Over “Panorama Photos”; Now Come Drones’ (2015) 161 *Chi Daily L Bull* 241.

109 *Naruto v Slater* 2016 WL 362231 (ND Cal 28 January 2016).

110 ‘The Next Rembrandt’ J Walter Thompson www.jwt.com.

of authorship remain in flux. As countries reconsider the authorial boundaries to be drawn in the face of such new technologies, there is room to reconsider the relationship between the photographer and his subject that lie at the heart of privacy-based copyright norms.¹¹¹ Even in cases where the subject has consented to having his photo taken, subjects are increasingly seeking control over the use of those images. In the United States, in *Natkin v Winfrey*,¹¹² the well-known celebrity Oprah Winfrey sued for copyright in her images taken by freelance photographers authorised by her to take such images. The court ultimately rejected the claim because:¹¹³

... the subject matter of the photographs is not copyrightable ... To qualify as an author, one must supply more than mere direction or ideas. An author is the party who actually creates the work, that is, the person who translates an idea into a fixed, tangible expression.

Neither Winfrey's 'facial expressions, her attire, the "look" and "mood" of the show, the choice of guests [or] the staging of the show'¹¹⁴ qualified as a copyrightable work.

If privacy issues are considered, at least in cases of unauthorised photography, however, countries might determine that the unwilling subjects have the right to control the future use of their image as, at least, a joint author. Such authorship would not only resolve the issue of the right to control dissemination of private images of sexual conduct, and drone and other forms of unauthorised surveillance images (discussed below), but could also have applications with regard to so-called paparazzi photography, at least where such photographs intrude into the subject's private spaces. One useful example of this approach is New Zealand's grant of a moral right to '[a] person who, for private and domestic purposes, commissions the taking of a photograph or the making of a film' to prevent the public exhibition, communication to the public or issuing of copies, even if the copyright is owned by another.¹¹⁵ The right of control under this provision would not cover unauthorised photos created by drones or the paparazzi since it is limited to 'commissioned'

111 See Susan Corbett 'The Case for Joint Ownership of Copyright in Photographs of Identifiable Individuals' (2013) 18 MALR 330.

112 *Natkin v Winfrey* 111 F Supp 2d 1003 at 1011 (ND Ill. 2000).

113 At 111, citing *Erickson v Trinity Thirty Theatre Inc* 13 F 3d 1061 at 1071 (7th Cir 1994), which cited *Community for Creative Non-Violence v Reid* 490 US 730 at 737 (1989).

114 *Natkin v Winfrey*, above n 112, at 111.

115 Copyright Act 1994, s 105 (as amended by the New Technologies Amendment Act 2008, s 62(1)).

works. But it provides a useful starting place for reconfiguring the rights of photographed subjects (regardless of the medium used to create the image) to prevent the distribution/public communication of hidden photography that is violative of personal privacy.¹¹⁶

Given that numerous countries are already considering the lines between authorship and technology, including revisions to the definitions of joint authorship in cases of collaborative works, privacy considerations could rewrite the landscape of such rights. The primary focus on authorship premised on creative contributions could still be maintained. But creative contribution would not need to be constrained to those who knowingly contributed to the work. Instead, privacy considerations could push normative contribution tests so that even unconsented-to poses, facial expressions and the like would give rise to sufficient creativity to qualify for joint authorship.¹¹⁷ Where the unconsented-to image violates personal privacy, privacy considerations would argue for the subject having the right to prevent its public distribution/exhibition/communication to the public. Such right to prohibition could be based on an expanded moral right, such as that contained in New Zealand's copyright law,¹¹⁸ or on a redefined right of control as a joint author.

4.3 Drones, Surveillance and Data Collections

From drones, whose cameras can peek over privacy hedges and into second-storey windows, to panoramic drones, which create beautiful cinematography, the advance of drone technology has raised the connections between copyright and privacy to new levels of concern. While drones can be used for diverse purposes, including as machines to transport balloons in parades,¹¹⁹ their use as aerial camera platforms also invite paparazzi, nosy neighbours and law enforcement to take invasive photos and post them before the subject knows he has been under observation.

116 See also Anti-Photography and Video Voyeurism Act 2009 (Philippines), ss 3(d) and 4 (providing criminal penalties for 'selling, copying, reproducing, broadcasting, sharing, showing or exhibiting' photos, videos or recordings capturing specified private sexual acts or 'similar' activity 'without the written consent of the person/s involved, notwithstanding that consent to record or take photo or video coverage of same was given by such persons').

117 See Corbett, above n 111.

118 Copyright Act 1994, s 105.

119 Jordan Crook 'Disney Files Patents to Use Drones in Park Shows' (27 August 2014) Tech Crunch techcrunch.com.

Combined with new biometric identification techniques, drone photography eliminates the anonymity crowds or personal property fences might otherwise provide. Yet the current focus on regulating drones as aerial devices by the United States, the EU and diverse Asian Pacific countries often ignores the reality of their use for civil surveillance. To the contrary, present regulations largely focus on the control of air space above 400 feet, and have relatively few provisions regarding personal privacy. One notable exception is an Ordinance specifically enacted in 2015 by the City of Chicago (Chicago Ordinance), Illinois, to address, among other issues, the threat to privacy posed by unregulated civilian drone activity. The Preamble expressly recognised that ‘drones can be equipped with highly sophisticated surveillance technology that threatens privacy’.¹²⁰

To combat this threat the Chicago Ordinance provides that no one ‘shall operate ... any small unmanned aircraft in city airspace ... for the purpose of conducting surveillance, unless expressly permitted by law’.¹²¹ It further provides an expanded definition of ‘surveillance’ designed to reach all potential intrusions:¹²²

‘Surveillance’ means the gathering, without permission and in a manner that is offensive to a reasonable person, of visual images, physical impressions, sound recordings, data or other information involving the private, personal, business or familial activities of another person, business or entity, or that otherwise intrudes upon the privacy, solitude or seclusion of another person, business or entity, *regardless of whether a physical trespass onto real property* owned, leased or otherwise lawfully occupied by such other person, business or other entity, *or into the airspace above real property* owned, leased or otherwise lawfully occupied by such other person, business or other entity, occurs in connection with such surveillance.

The Chicago Ordinance also prohibits operating small, unmanned aircraft ‘directly over any person who is not involved in the operation of the small unmanned aircraft, without such person’s consent’¹²³ or ‘over property

120 Office of the City Clerk, City of Chicago ‘Amendment of Municipal Code Title 10 by adding new Chapter 10-36 to regulate use of small unmanned aircraft in City airspace’ (29 July 2015) SO2015-5419 at 2; Chicago, Illinois, Municipal Code, art 1036-400.

121 Article 1036-400(b)(12).

122 Article 1036-400(a) (emphasis added).

123 Article 1036-400(b)(2).

that the operator does not own, without the property owner's consent, and subject to any restrictions that the property owner may place on such operation'.¹²⁴ A 'small unmanned aircraft' is defined as:¹²⁵

an aircraft that (1) is operated without the possibility of direct human intervention from within or on the aircraft, and (2) weighs less than 55 pounds at the time of the operation, including the weight of any payload or fuel.

Gliders and small aircraft tethered by a wire or rope are expressly excluded from the Ordinance.¹²⁶

New Zealand has created a similar Civil Aviation Rule, requiring persons operating a 'remotely operated aircraft' to:¹²⁷

avoid operating in airspace above persons who have not given consent for the aircraft to operate in that airspace; and above property unless prior consent has been obtained from any persons occupying that property or the property owner.

Similar to the Chicago Ordinance, the Rule defines the covered aircraft as 'radio controlled' ones and excludes 'model aircraft' and 'free flight aircraft'.¹²⁸

Although Chicago's Ordinance and New Zealand's Civil Aviation Rule prohibit unauthorised flights over people and property, similar to other civilian drone regulations that include privacy concerns within their scope,¹²⁹ they do not provide remedies if the results of an authorised overflight are posted on the internet or otherwise published. Some countries may provide some, but not complete, relief under privacy or related laws.¹³⁰ Fortunately, the outputs of drones and other surveillance technologies include photographic images and audio recordings that are potentially regulatable under copyright regimes. Thus, their takedown

124 Article 1036-400(b)(3).

125 Article 1036-400(a).

126 Article 1036-400(a). Penalties for violating the Ordinance include fines from US\$500 to US\$5,000 for each offense, and/or incarceration for a term not to exceed 180 days: art 1036-400(d).

127 Civil Aviation Rules 1990, r 101.207.

128 Rule 101.1.

129 See European Aviation Safety Agency "Prototype" Commission Regulation on Unmanned Aircraft Operations' (22 August 2016) EASA www.easa.europa.eu.

130 See HDCA, above n 83, s 24(2) (allowing quick takedown of images that 'cause serious emotional distress'); Standing Committee on Social Policy and Legal Affairs *Eyes in the Sky* (The Parliament of the Commonwealth of Australia, July 2014) at n 10 (detailing state laws governing surveillance that might be used to challenge such images).

might be possible under a reformed NTD regime discussed above, applying the same normative principles for removal of photographic images that invade personal privacy. Where the invasive materials consist of audio recordings, the normative rules would be different. Assuming that the recorded sounds consist of words, and not just ambient sounds, there is little doubt that such recordings by a drone could be copyright protectable. But there would be less need to reconfigure creativity or authorship norms per se. Instead, the recording by drones could be considered merely a mechanical act, recording without creative input, so that the owner/operator of the drone would have no authorship rights. Instead, the speakers would be the authors of any captured recording.¹³¹

4.4 Fair Use, Fair Dealing and the Public Interest in Privacy

Fair use or fair dealing considerations based on unauthorised uses of copyrighted works represent the most obvious normative alteration that the inclusion of privacy considerations would present. Privacy considerations have already begun to be recognised as a viable third-party interest to be protected against overzealous protection of copyrighted works in the heightened scrutiny applied to requests for end-user identity subpoenas¹³² and to efforts applied to combat pirated works on the internet.¹³³ However, in the context of fair use or fair dealing considerations, privacy concerns might militate against the application of such exceptions, particularly where the underlying work at issue also breaches certain privacy rights. In such cases, privacy concerns would not be the sole factor in determining whether any particular work qualified for an exception under copyright. To the contrary, other factors currently considered in determining whether a particular use is fair, including categorical exceptions for such diverse categories as satire or parody, research, scholarship, current news, security

131 In the United States, the present obligation that a work be ‘fixed’ to qualify for copyright protection, and that such fixation is ‘by or under the authority of the author’, DMCA, above n 12, §§ 101–102, would need to be altered for this result to apply.

132 See *Sony Music Entertainment Inc v Does* 1-40, 326 F Supp 2d 556, 564-65 (2d Cir 2004) (requires evaluation of the ‘concrete[ness of the plaintiffs] showing of a prima facie claim of actionable harm’, consideration of ‘alternative means’ to secure the requested identity disclosure and an express evaluation of the objecting party’s expectation of privacy); *BMG Canada, Inc v John Doe*, above n 31 (similar requirements for disclosure); Case C-275/06 *Promusicae v Telefonica de Espana SAU* [2008] ECR I-54 (similar requirements for disclosure).

133 Case C-275/06 *Promusicae v Telefonica de Espana SAU* [2008] ECR I-54, at 70 (‘[Relevant] Directives ... do not require the Member States to lay down ... an obligation to communicate personal data in order to ensure effective protection of copyright in the context of civil proceedings’).

testing and the like, would remain critical factors. But privacy interests would represent a strong ‘thumb’ on the copyright fair use/fair dealing balance. The strength of this factor could be balanced by the same types of considerations that currently regulate the protections given personal data.

We already have examples in numerous regimes aimed at protecting personal data privacy in which special categories of information have been granted heightened protection. For example, under art 8 of the EU Directive on Data Privacy, sensitive personal information relating to the following categories are subject to extremely narrow processing rights.¹³⁴

1. racial or ethnic origin;
2. political opinions;
3. religious or philosophical beliefs;
4. trade-union membership;
5. data concerning health or sex life; and
6. data relating to offenses, or criminal convictions.

Article 9 of the GDPR provides greater detail about these protected data categories and includes genetic data, biometric data for the purpose of uniquely identifying a natural person and sexual orientation.¹³⁵ Other countries in the Asia Pacific that provide heightened protection for ‘personal sensitive information’ have included additional categories, reflecting expanded norms for such protection. For example, Australia includes ‘membership of a political association’, sexual orientation or practices and biometric templates.¹³⁶ Japan includes a crime victim’s history and contains a catch-all category ‘other sensitive information that may lead to social discrimination or disadvantage’.¹³⁷ The Philippines includes ‘age’ and ‘philosophical affiliations’ and expands sensitive information regarding ‘offenses’ to specifically include those that have only been ‘alleged’.¹³⁸ China includes ‘biometric information’, ‘personal financial and real estate information’, ‘health and physiological information’, ‘sexual orientation’, ‘undisclosed criminal records’ and all personal information about minors (under the age of 14).¹³⁹

134 Directive 95/46/EC on the protection of individuals with regard to the processing of personal data and on the free movement of such data [1995] OJ L 281/31, art 8 [Data Privacy Directive].

135 GDPR, above n 21, art 9.

136 Federal Privacy Act 1988 (Cth), s 6(1).

137 Act on the Protection of Personal Information and Amendments 2015 (Japan), art 2(3).

138 Data Privacy Act 2012 (Philippines), s 3(l)(1).

139 Personal Information Security Specification, above n 27, at Appendix B.

While personal data privacy in these instances focuses on categories of *data* for heightened protection,¹⁴⁰ the California State ‘Online Eraser’ Statute establishes a protected class of subjects entitled to greater protection.¹⁴¹ Chapter 22.1(a) of the California Business and Professions Code obligates the OSP of a site or application ‘directed to minors’ or who has ‘actual knowledge’ that a minor is using its services to remove content posted by the minor on the minor’s request.¹⁴² A minor is defined as any California resident under the age of 18.¹⁴³ There is no obligation that the content be created by the minor, or that the content breach the minor’s privacy or otherwise cause any type of embarrassment or emotional harm. To the contrary, the purpose for the Online Eraser Statute is to allow those who are underage to remove whatever they might have posted that they now regret for whatever reason. The removal right is not an absolute one. It does not obligate the OSP to remove copies of the posting that appear on other websites. But it does recognise that minors should be subject to special protections given their age and general immaturity of judgment regarding personal privacy boundaries.

These nuanced considerations could be added into an expanded fair use or fair dealing balance that considers the public interest, including the public interest in privacy. Thus, for example, where the original work is an unauthorised image of a minor engaged in sexual activity, the heightened interest in protecting minors against the embarrassment and harm that such privacy violations could cause might well argue against any fair use.

Privacy considerations could also alter the balance in the ability to use unpublished, private works under a fair use or fair dealing exception. Privacy considerations do not necessarily prohibit fair use accommodations for the use of unpublished works. But they do suggest that, just as the nature of the data at issue receives variable protection under privacy regimes, the nature of the work under fair use should be considered. Where that nature is ‘private’, in the sense that it has not been published or otherwise distributed or communicated publicly, or where it deals with subject matter of an extremely private personal nature (perhaps as represented

140 Children’s Online Privacy Protection Rule 16 CFR 312; Children’s Online Privacy Protection Act of 1988, 15 USC 6501–6505.

141 California Business and Professions Code, ch 22.1.

142 § 22581.

143 § 22580(f).

by the categories of sensitive data contained in data privacy collection laws discussed above), then personal privacy issues should be given greater consideration.

For those countries with strong moral rights that include the right of divulgation (first publication), such as France,¹⁴⁴ or some variation such as New Zealand's special moral rights for photographs,¹⁴⁵ unpublished works are already prevented from unauthorised publication. However, since the right of divulgation is not included in the obligatory moral rights protections under the Berne Convention,¹⁴⁶ such protection is not required. Indeed, this right may not even be protectable under the relatively flexible 'balancing test' for fair use utilised by the United States,¹⁴⁷ the Philippines,¹⁴⁸ Taiwan¹⁴⁹ and South Korea,¹⁵⁰ among others.

The United States fair use provision has provided the template for the fair use balancing test internationally. Under this balancing test, the question of whether any use is considered a 'fair' one under copyright is determined by balancing four statutory factors. They are:¹⁵¹

1. The purpose and character of the use, including whether such use is of a commercial nature or is for nonprofit educational purposes;
2. The *nature of the copyrighted work*;
3. The amount and substantiality of the portion used in relation to the copyrighted work as a whole;
4. The effect of the use upon the potential market for, or value of, the copyrighted work.

Although the 'nature' of the work is considered, presently such consideration is generally limited to the factual nature of the work. Where a work is considered more factual in nature, such as directories, software codes and

144 Code de la Propriété Intellectuelle (France), art L-121-2 ('The author alone has the right to disclose his work'); Copyright Act 2016 (Taiwan), art 15 ('The author shall enjoy the right to publicly release the work').

145 Copyright Act 1994, s 105.

146 Berne Convention, above n 2, art 6*bis* (limiting obligatory moral rights to integrity and patrimony).

147 DMCA, above n 12, § 107; see *Swatch Group Management Services Ltd v Bloomberg LP* 756 F 3d 73 (2d Cir 2014) where an injunction was denied to halt distribution of private recording due to public interest in access to financial information.

148 Intellectual Property Code, Republic Act No. 8293 (Philippines), s 185.

149 Copyright Act 2016 (Taiwan).

150 Copyright Act 1957 (South Korea), art 35*ter*(2).

151 DMCA, above n 12, § 107 (emphasis added).

the like, an end user can use a greater portion of it and still have such use qualify as a fair one. By adding privacy as a consideration in fair use determinations, the nature of the work would go beyond a simple question of whether the work was more fictive or factual in nature. It would also consider the personal nature of the work and any indicia of the author's desire for its continued secrecy. Like other factors, the unpublished nature of the work or its private or unconsented nature would not be an absolute bar to a fair use/fair dealing exception. But such private nature would not be given such short shrift as it receives currently in some countries, including the United States.¹⁵² Although including privacy considerations would not automatically lead to a finding against fair use, it would at least require more than outright dismissal of an author's interest in maintaining such privacy. For those countries that utilise a fair dealing approach, care in assuring that categories of acceptable uses do not implicitly permit the use of private works, in publication status or its private subject matter, should achieve the same result.

The normative inclusion of the private nature of the subject matter at issue in a case of fair use or fair dealing would represent a contrary trend toward the current international push to secure greater flexibility in the rights of the public to utilise others' works. This trend is strongly represented by the current trend in the United States to recognise fair use for 'transformative' uses that have included the unauthorised digitisation of copyrighted works.¹⁵³ Including privacy considerations as part of a fair use or fair dealing norm, however, would assure that determinations reflect a careful balance between public access to information and personal dignity represented by increased protection against unauthorised uses that implicate sensitive private information.

4.5 Resolving the Technical Protection Measures Debate: Considerations of Personal Data Privacy in Access Debates

Since the earliest days of digital media, content owners have attempted to shield their copyrighted works from unauthorised uses through technology. From debates over the requirements of copy controls on digital audio players to the present arms race in encryption and other

152 § 107 (The private unpublished nature of the work 'shall not itself bar a finding of fair use').

153 *Authors Guild v Google Inc* 804 F 3d 202 (2d Cir 2015).

technologies to prevent unauthorised access, technology has always been perceived, rightly or wrongly, as a potential solution to digital piracy.¹⁵⁴ Even the first multilateral treaty to deal with copyright protection in the 'Digital Age', the WCT, set forth a positive obligation on signatories to 'provide adequate legal protection and effective legal remedies against the circumvention of effective technological measures that are used by authors in connection with the exercise of their rights'.¹⁵⁵ This obligation has been reiterated in all subsequent WIPO-administered Treaties dealing with copyrighted content.¹⁵⁶

The protection of technological protection measures (TPMs) remains a contested issue. Two major areas of contention are the scope of rights to be protected by such TPMs and the application of fair use/fair dealing exceptions to circumvent such measures. Consideration of privacy issues could significantly alter the analysis in both areas.

As noted above, under art 11 of the WCT, only TPMs erected to protect 'the exercise of [author's] *rights*' are covered.¹⁵⁷ This language undeniably includes encryption and other technological measures designed to prohibit unauthorised reproduction or performance of a streamed or downloaded work. It does not, however, mandate protection of TPMs that restrict *access* to copyrighted works. Copyright owners are not granted the express right to prohibit 'access' to their works under either international or domestic regimes. Such right of access implies a right to prohibit the 'use' of a work. But such 'use' right is not, per se, a recognised one under copyright.¹⁵⁸ To the contrary, if a work is publicly available, the copyright owner cannot lawfully stop an end user from reading a lawfully acquired copy of the work, or from using the *information* in that work.

In art 6 of the EU's InfoSoc Directive, protected technological measures were defined as:¹⁵⁹

154 See Corbett, above n 18.

155 WCT, above n 8, art 11.

156 WPPT, above n 9, art 18; Beijing Treaty, above n 10, art 15.

157 WCT, above n 8, art 11 (emphasis added).

158 Doris Estelle Long 'When Worlds Collide: The Uneasy Convergence of Creativity and Innovation' (2009) 25 J Marshall J Computer & Info L 653.

159 InfoSoc, above n 13, art 6 (emphasis added).

any technology, device or component that, in the normal course of its operation, is designed to prevent or restrict acts, in respect of works or other subject matter, which are not authorised by the rightholder of any copyright or *any right related to copyright as provided for by law* or the sui generis right provided for in the [Database Protection Directive].

Similar to the language of art 11 of the WCT, access or use rights are not included among the rights expressly protected under these measures. Section 226(a) of New Zealand's Copyright Act similarly defines a TPM as 'any process, treatment, mechanism, device, or system that in the normal course of its operation prevents or inhibits *the infringement of copyright* in a TPM work'.¹⁶⁰ China also prohibits the intentional circumvention of TPMs 'adopted by a copyright owner ... to protect the copyright or the rights related to the copyright in the work to protect the copyright'.¹⁶¹ The rights defined under New Zealand's copyright laws do not include 'access' or 'use' rights.¹⁶² Neither do those under China's copyright laws.¹⁶³

By contrast, s 1201 of the United States DMCA expressly prohibits the circumvention of TPMs designed to 'control access' to a copyrighted work¹⁶⁴ or to protect 'a *right* of a copyright owner'.¹⁶⁵ Several Asian Pacific countries provide for similar protection for access control measures, including Australia,¹⁶⁶ Singapore,¹⁶⁷ South Korea¹⁶⁸ and Taiwan.¹⁶⁹ The United States, however, provides potentially the strongest protection for such access measures because it rejects any fair use exceptions to permit circumvention of access protection TPMs. Section 1201(a)(1)(A) expressly provides: 'No person shall circumvent a technological measure that

160 Copyright Act 1994, s 226(a) (emphasis added). But see Trans Pacific Partnership Amendment Act 2016, s 226AC (establishing anti-circumvention protection for an 'access control TPM'). The Amendment does not come into force until the Trans Pacific Partnership comes into force in New Zealand (see s 44); The Comprehensive and Progressive Agreement for the Trans-Pacific Partnership (CPTPP) (signed 8 March 2018, not yet entered into force), however, expressly suspended art 18.68 which covers anticircumvention measures: at art 2. It is uncertain whether this provision will become effective; see Corbett, above n 18.

161 Copyright Law of the Peoples Republic of China (China), art 48(6).

162 Copyright Act 1994, ss 29–39.

163 Copyright Law of the Peoples Republic of China (China), arts 10 and 48.

164 DMCA, above n 12, § 1201(a).

165 § 1201(b).

166 Copyright Act 1968 (Cth), s 116AN.

167 Copyright Act 1987 (Singapore), art 261B.

168 Copyright Act 1957 (South Korea), art 2(28).

169 Copyright Act 2016 (Taiwan), art 80ter. For a discussion of the potential expansion to protection for access control TPMs in New Zealand, see Corbett, above n 18.

effectively controls access to a work protected under this title.¹⁷⁰ As the United States Copyright Office recognised in its Executive Summary of the DMCA:¹⁷¹

[S]ince the fair use doctrine is not a defense to the act of gaining unauthorised access to a work, the act of circumventing a technological measure in order to gain access is prohibited.

The ultimate impact of this distinction was to make protection for access-restrictive measures stronger than those for rights-restrictive ones.¹⁷²

One of the sharpest debates to date remains the balance to be struck between protection of technological measures to reduce piracy and access rights, particularly those supported by fair use or fair dealing considerations. Privacy considerations would undoubtedly impact the normative balance struck between protection and access. Similar to its impact on other fair use or fair dealings discussed above, privacy considerations could have a strong impact on the categories of materials to be excluded from any fair use exceptions to circumvention controls. For instance, greater protection for TPMs might be desirable where they are used to protect copyrighted works that also pose serious privacy threats if breached. For the same reason, however, privacy issues might resurrect the desirability of expanding protected TPMs from rights-based to access-restrictive ones at least for certain types of private information whose dissemination should remain in the hands of the copyright owner.

The normative inclusion of the private nature of the subject matter at issue with regard to TPMs would represent a contrary trend toward the current international push to secure greater flexibility in the rights of the public to access TPM-protected works in certain cases. But it could also be used to draw a clearer normative line between works that are deserving of heightened protection (because of their sensitive subject matter) and those for which fair use/fair dealing rights should be allowed. Such addition, however, would not fully answer the issue of how to secure fair

170 DMCA, above n 12, § 1201(a)(1)(A); see also *Universal City Studios Inc v Corley* 273 F.3d 429 (2d Cir 2001).

171 United States Copyright Office *The Digital Millennium Copyright Act of 1998: US Copyright Office Summary* (December 1998).

172 See *The Chamberlain Group Inc v Skylink Technologies Inc* 381 F.3d 1178, 1201 (Fed Cir 2004), which held that only access-restrictive TPMs that 'bear a reasonable relationship to the protections that the Copyright Act otherwise affords copyright owners' fell within the scope of the DMCA § 1201 protections.

use/fair dealing access while maintaining anti-circumvention measures as a viable method for protecting copyrighted works. It could, however, provide needed illumination on why this issue still matters.

4.6 Distributional Controls, Transformations and Injunctive Relief

As noted above, privacy considerations could significantly alter the normative scope of NTD processes designed to assist in the protection of copyright interests in the ‘Digital Age’. Yet the impact of such considerations on enforcement mechanisms would not be limited solely to this admittedly critical issue. To the contrary, adding privacy issues into normative reforms in copyright could directly impact critical questions regarding the scope of relief available for infringing uses. In short, it could impact the extent to which copyright owners would be entitled to injunctions against the continued unauthorised use of copyrighted materials.

One of the most consistent debates over the scope of protection afforded copyrighted works is whether such works represent property rights for which injunctive relief against unauthorised uses should be available or whether liability rules that impose money damages are sufficient.¹⁷³ Even in the United States, injunctive relief is no longer always granted in cases of copyright infringement. Instead, courts examine whether irreparable harm will occur to the copyright owner.¹⁷⁴ Historically, such harm was presumed to occur. Currently, courts not only require that copyright owners ‘show that, on the facts of their case, the failure to issue an injunction would actually cause irreparable harm’.¹⁷⁵ Courts must also consider the public interest:¹⁷⁶

The object of copyright law is to promote the store of knowledge available to the public. But to the extent it accomplishes this end by providing individuals a financial incentive to contribute to the store of knowledge,

173 See Tracy Lewis and JH Reichman ‘Using Compensatory Liability Rules to Stimulate Innovation in Developing Countries’ in Keith Maskus and JH Reichman (eds) *International Public Goods and Transfer of Technology under a Globalized Intellectual Property Regime* (Cambridge University Press, Cambridge, 2005).

174 See *eBay Inc v MercExchange LLC* 547 US 388 at 392-393 (2006) (‘This Court has consistently rejected invitations to replace traditional equitable considerations with a rule that an injunction automatically follows a determination that a copyright has been infringed’).

175 *Salinger v Colting* 607 F 3d 68 at 82 (2d Cir 2010).

176 At 82.

the public's interest may well be already accounted for by the plaintiff's interest. The public's interest in free expression, however, is significant and is distinct from the parties' speech interests ... Every injunction issued before a final adjudication on the merits risks enjoining speech protected by the First Amendment.

If privacy considerations were added into the irreparable harm/public interest balance, depending on the subject matter of the work at issue, injunctive relief might become more readily available. 'Liability rules' that favour the imposition of what amounts to a compulsory licence for the use of the infringed work might be preferable where a work has a non-speculative commercial value that can be readily calculated. But if the work also poses a serious threat to the public's interest in personal privacy, such compulsory licences would be wholly inappropriate. For example, the public interest in limiting the harm caused by the dissemination of works that qualify as sexting or revenge porn would support injunctions against their further distribution.

Alternatively, depending on their subject matter, privacy considerations could well be used to deny enforcement to the holders of copyright in such works. Many countries, including the United States, refuse to enforce copyright in works that are considered obscene or pornographic.¹⁷⁷ Similar denials of enforcement could be extended to works such as surveillance videos or depictions of private sexual activity that represent a serious violation of personal privacy rights. At its most extreme, revised copyright norms might even deny subject matter eligibility to works that present the greatest threat to personal privacy.

Adoption of enforcement norms that decline enforcement on the grounds of the private nature of the materials could serve as a useful adjunct to other normative protections discussed previously. At a minimum, they would prevent aggressive cyberbullies and revenge porn posters from securing relief under declaratory relief actions when their posts are challenged. But these provisions are only supplementary and should not take the place of NTDs and other methods for reforming copyright to protect personal privacy.

¹⁷⁷ *Devil's Films Inc v Nectar Video* 29 F Supp 2d 17 (SDNY, 1998).

5 Conclusion

The rapid change in technology over the past several decades has rewritten the practical realities of the role of copyright in today's global digital environment. As countries struggle to reform present norms, derived largely from an older hard goods-focused world, new inputs are needed to assure that the reconfigured regimes created today accurately reflect present realities and future possibilities. Among those 'new' inputs should be a consideration of the interrelationship between copyright and personal and data privacy.

There has always been a tangential relationship between copyright and personal privacy regimes in connection with identity disclosures of potential infringers. Yet over time, this relatively slight relationship has expanded to the point where privacy considerations are beginning to influence international copyright norms. Such considerations have already begun to change the boundaries of authorial rights in the 21st century. Their formal inclusion as part of the normative background for present efforts at copyright reform is long overdue and could add clarity and even new paradigms for the future. Privacy norms have the possibility of significantly changing present copyright norms by adding new issues and new points of view.

Yet simply adding privacy issues into the copyright reform 'mix' and adopting some of the norms discussed in this chapter is only the first step in creating a normative framework for copyright that avoids the empty promises of the 1990s. To create copyright laws that will survive the next technological revolution, we must create a harmonised reformation, a code, that will assure that these critical normative changes are incorporated across borders. Merely creating a patchwork of reformed laws in some countries based on new privacy-informed regimes may be better than making no change at all, but it disserves the borderless realities of the digital environment. Fortunately, the task is made easier in the Asia Pacific because a draft Copyright Code for the region has already been created by Professor Adrian Sterling.¹⁷⁸ This Code provides the critical framework of foundational norms that could be examined and potentially strengthened through a reconsideration of the current separation between copyright and privacy laws. If we truly want to create copyright laws for

178 Adrian Sterling 'Asian Pacific Copyright Code' in this volume.

the 21st century, we must be brave enough to complete the entire task. Anything less will simply leave the work for another generation. Given how quickly technology moves, I am not certain we can wait that long.

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