Responding to cyberterror 253



 lusion as to whether (or not) cyberterrorism is a real and actual threat to em society.

## kground

 ists who use the Internet?ested above, governments and media alike have been very keen to present the

 ment is on the back foot and can merely react; it is unable to act proactively. ${ }^{7}$
 he ideas stated above, that the terrorists will be stopped. However, there are

ese are questions which this chapter endeavours to answer in more detail.























## ص <br> A failure to firewall freedoms? <br> Rajash Rawal

## Summmary

 described a 'net attack' as being as serious and grave a problem as any Internet and its capacity, Obama's concerns echo long-standing critic Governments have readily highlighted thatess and the lack of a regulaten potential that the cyberworld has to offer them to have been quick to municate with each other and retain their anonymity. As a rer their messal contain have often trampled over human rights, privacy and civil libe chapter examines the developments by looking at the actual threats of cybe are posed by the use of the Internet by terrorists. Thi a trends in government measures to attempt to control hy E-Democracy while at the same times and present how these measure mechanisms to be created.
## Introduction

Obama's concerns echo lo potential nuclear or biological threat when running for office of President United States in 2008. He suggested that the 'War on Tor office of Preside diverse in its range of action in order to cope with the diverse thad to bec by the modern terrorist. Obama followed up on his words by launch cy security review soon after being sworn into office in an attempt to shorre (i.e. its openness and the lack of a regulatory power). ${ }^{2}$ Govternet and its highlighted that terrorists have been quick to utilise the potential thents have has to offer them in delivering their messages, comm
 manisms. opportunity for groups to plot in secret and 'bypass' mechanisms.

This chapter examines the developments by looking cyberterrorism are and what threats are posed by the use of the Internet by
Attractions of cyberspace
Heralded as the integrator of cultures, the Internet ${ }^{30}$ has also been the instrument of
 opposed to the one-to-many systems, it has opened up numerous possibilities for

 uages. Terrorist organisations have
hinery, as shown in Figure 15.2.3




 h as Facebook and the group possibilities that exist here.




 әле sоәрй әәгм Iden away in the annals of the back catalogue.


 .əәиәu!̣,



 . 1 , hreat ${ }^{44}$









Figure 15.2 Why terrorists use the Internet


A concept paper prepared by IGP identified the main criticisms of ICANN to be: ${ }^{54}$
the unilateralism of the United States government in its control and supervision of ICANN;
dissatisfaction with ICANN's Government Advisory Committee (GAC), where governments have only advisory powers;
 balance to those of developed countries;
the general feeling that ICANN lacks legitimacy.

 кег!̣и!






ICANN, the outcome of WSIS






 head of it.

In addition to the ICANN provisions, however, there are other ways in which the Internet is regulated. The Security Intelligence Products and Systems (SIPS) framework has been in operation since 1995. It forms part of the British-based mi2g sэәэวセาе әхем
 a peerless status in holding confidential information with regard to digital risk. ${ }^{60}$
 Threats Contingency Alliance (ATCA), which was initiated post-September 11. рәs!̣ues.


 a fundamental criticism of ATCA is that it continually infringes civil liberties and
the United States, which has kept the nation on high alert since September 112001 Moreover, many terrorist organisations have created their own newsgroup counter the power of traditional journalists. ${ }^{46}$

Al Qaeda has proven to be an excellent example of how a terrorist group can uitid he
 are listed in Figure 15.3.

Consequently, we can say that Al Qaeda is 'simultaneously everywhere nowhere'. ${ }^{48}$ National governments often complain of the lack of wherewithal to trol the Net due to its borderless, translucent world; the United States government


## 





 and I challenge the notion the Internet is a wilderness beyond control.

## Internet regulation and governance

One of the greatest myths of the Internet age is that there is no control over Internet what mechanisms exist to monitor and res en


 traffic. It was established in 1998. ${ }^{50}$ ICANN has a direct link to the United Stater government. ${ }^{51}$

 (WSIS) held in Tunis in November 2005. Nations such as Brazil, China, France, Iran and South Africa wanted a more neutral body to be created under UN auspices to oversee the Net, ${ }^{52}$ while others, such as the Internet think tank group the Internei Governance Project (IGP), wanted greater reforms of ICANN's powers and democratisation of its structure. ${ }^{53}$

## Is transitional





## Figure 15.3 Analogies between Al Qaeda and the Internet


 express its opinions at a global level. Borders have been in some cases rendered
































In order to combat this element of Web abuse, authorities are beginn introduce a number of new measures. One such example is in Italy, where ant sме мәи әょə૫ Europe. While encompassing more than Internet use, these laws now require who wish to use the Internet in public places such as libraries or Internet c submit a photocopy of their passport before being allowed to log on. Mo Internet cafés have to obtain public communications business licences and expensive tracking software, or so-called 'eavesdropping technology', ${ }^{64}$ costing US\$1,400. ${ }^{65}$

Additionally, the European Union introduced a directive which will allow authories to access users 'traffic data'. ${ }^{66}$ The directive, which was introduced in member state of the European Union by the deadline of July 2007, compels telephone company and Internet service provider (ISP) to save call and int records for up to two years. The ISP data is comprehensive and includes we visited and header information of email correspondence detailing the sender, new legislation, privacy advocates fear presents of our communication tools forming part of the largest surveillance sy ever created in the near future surely is enough reason to worry. ${ }^{68}$



 merely amended their use of the free email service. Current legislation allow authorities to monitor inboxes and no more. The Madrid attackers simply used one
 the account. Once more, legislation seems to be one step behind.

## Do govermments pose a threat to cyberfireedom?

Government controls and their ensuing implications for society have left spectators lamenting the abuses of privacy and freedoms that governments can now legitimately
 Geneva-based NGO International Commission of Jurists, many governments have
have reached an important juncture in the so-called 'zeitgeist' of cyberterrorism. ernments have acted and their policy-making counteracts the growing prospecthreats of cyberterror, but terrorists continue to seek a safe haven in the dark ners of cyberspace to advance their campaigns based on creating fear and panic.





 lechanisms to monitor public Internet access points, as in Italy, can work. However,
 upeded by the requirement for financial capital needed to meet modern regulations, this may only lead to closure of much-needed public access points, which help
dissue of the digital divide. ${ }^{89}$ Idress the issue of the digital divide. ${ }^{89}$
In our fight against modern terrorism
In our fight against modern terrorism and its role in cyberspace, a few things must
e noted. The War on Terror has not been a watershed, it has been an excuse. The




 monitor how the Internet is used and limit its capacity to be abused by Internet-savvy



 practices. As noted by Moore, ${ }^{90}$ the relationship between democracy and cyberspace is a complex, multi-dimensional one, and we must all engage in nurturing it. Governments have readily highlighted that terrorists have been quick to
 messages, communicate with each other and retain their anonymity. Terrorist groups have embraced the Internet and have challenged the existing balances on information flow and news coverage. The Internet has
 opinion as they like.

## onclusions

 short ${ }^{30}$ of promises made and have created new problems of limiting freedom augmenting the unaccountability of government and corporations.The risk is that society has accepted changes without much debate had changes been introduced to control more traditional media and methods communication, discussion would have been rife. ${ }^{81}$ The need for a legitimate fo of developing E-Identities has never been greater. As presented by Fishenden, ${ }^{82}$ need for E-Identities to monitor online government services and online commer now encompasses online security.

## Cam the ordinary citizen do more?

As illustrated above, governments across the world have been keen to introduce restrictions in order to protect the citizenry from the terrorist potential. However restrictions, though accepted without discussion at their inception, have beei Never css, the threat exists an ps Internet to meet their needs.

A first and very simple step is to limit the visibility of our own digital equipment Many of us enjoy simple, easy access to the Internet through our domestic wi-f envronment, however, we extend this courtesy to all and sundry when we do no secure our networks. As mentioned earlier, the potential terrorist thrives on anonymity and an unsecured network allows them to have access to an ISP which innocent citizen caught inem - better still, it can be traced to an unsuspecting Bluetooth facility on mobile devices, which, as factory default, also true for the and should be set to 'password protected'.

We can also make sure our information is safe by making sure our access to the
 turn to the online world for our interaction with government (i.e. for taxes, health, education, etc.). By filling in an online form for a tax return, for example, we send out vital information about ourselves which can be adopted and used to criminal, and potentially terrorist, use. So-called 'blaggers' wait to prey on any lapse of security
 a 'Personal Information Tool-Kit' in January 2007. Unfortunately its publication the success of this leaflet was not as widespread as the leaking of personal information or indeed the 'cybercrime tool kits' which can be easily purchased. ${ }^{84}$

In short, the citizen can never safeguard everything; we will always need governmen the our actions and theirations we can begin to remove some of the threat to our online security that we face. We must also apply common sense when we interact over the Internet. We would never post money in an unsealed envelope through regular post, so why transact over unsecure Internet sites? Public complacency sits oddly with public paranoia. ${ }^{85}$
1 BBC Newsonline (2009) 'Obama Begins Cybersecurity Review', BBC News, 10 Febnuan http://news.bbc.co.uk/go/pr/fr/-/hi/technology/7880695.stm.
to better monitor how the Internet is used and limit its capacity to
abused by Internet-savvy terrorists.
Cukier, K. N. (2005) 'Who Will Control the Internet? Washington Battles the Worla)
Foreign Affairs $84 / 6$ November/December: 7-13.
Segoviano Monterrubio, S. (2005) 'Al Qaeda en la Red', Papeles de Cuestiones Internaciont
89, Primavera.
9 BBC Newsonline (2009) 'Obama Begins Cybersecurity Review', BBC Newes, 10 Februan
Bradbury D. (2009) 'The Fog of Cyberwar', Guardian, 5 February.
0 Bradbury, D. (2009) 'The Fog of Cyberwar', Guardian, 5 February
Conway, M. (2002) 'Reality Bites: Cyberterrorism and Terrorist 'use' of the Internet Painter, A. (2001) 'The Contagious Campaign (part 2)', in Viral Politics, Painter, Wardle, B. (eds) London: Politicos Publishing. pp. 154-167.
Denning, D. quoted in Cionway, M. (2002) 'Reality Bites'.

Denning, D. quoted in Conway, M. (2002) 'Reality Bites', p. 6. BBC Newsonline (2005) 'Spammer Convicted of $£ 1.6 \mathrm{~m}$ Scame, BBC / $4442772 . \mathrm{stm}$.
 Uses the Internet, United States Institute of Peace Special Report 116, March 2004, www.usip.org.

Rosenkrands, J. (2004) 'Politicizing Homo economicus' in Cyberprotest - New Media, Citizens
and Social Movements, van de Donk, W., Loader, B.D., Nixon, P.G. and Rucht, D. (eds) [е!әа S рә!!u!!u Plunkett, J. (2005) 'French Bloggers Held after Paris Riots’, Guardian Unlimited Sp. Reports, November, http://www.guardian.co.uk/story/0,11882,1638520,00html

Louw, E. (2005) The Media and Political Process. London: Sage Publications.
Conway, M. (2002) Reality Bites.
Lanzone, R. (2005) Cyberiihad. Indiana: AuthorHouse.
Weimann, G. (2004) wrwo.terror.net.
Webster, F. (2001) 'A New Politics?', in Culture and Politics in the Information Age, Webster, F. (ed.) London: Routledge. pp. 1-13.

Knight, A. and Ubayasiri, K. (2002b) 'Reporting On Line: The Internet and Terrorism',
ON LINE opinion - Australia's e-journal of social and political debate, http://onlineopinion. com.au/view.asp? article=1101.

Scott, A. and Street, J. (2001) 'From Media Politics to E-Protest?'
Weimann, G. (2004) wrwo.terror.net.
Dahlgren, P. (2001) 'The Transfo

Weimann, G. (2004) wrwro.terror.net.
Ibid.
Dahlgren, P. (2001) 'The Transformation of Democracy?'
McLuhan, M. $(1964,2002)$ Understanding Media: The Extensions of Man. London: Routledge. Weimann, G. (2004) werw.terror.net.

Stevenson, N. (2001) 'The future of public media cultures', in Culture and Politics in the
Weimann, G. (2004) wrwe.terror.net, Knight, A. and Ubayasiri, K. (2002b) 'Reporting On
Line: The Internet and Terrorism. John F. Kennedy School of Government, Harvard University Faculty Research Working Paper RWP03-017.

BBC Newsonline (2007) 'UK Terror Tactics create unease', BBC News, 10 Novermber,
http://news.bbc.co.uk/go/pr/fr/-/hi/uk/7088325.stm.
For an elaborative review of terrorist websites and their aims and objectives please refer to Conway 2002, Knight and Ubaysiri 2002a, Weimann 2004.

Kawamoto, K. (2003) Media and Society in the Digital Age. Boston: Allyn and Bacon.
Sunstein, C. (2002) Republic.com. Princeton, NJः Princeton University Press.
The web analyst prefers to remain anonymous.
BBC Newsonline (2007) 'Internet Used to Target Extr
http:// news.bbc.co.uk/ go/pror net
Keimann, G. (204) whasiri, K. (2002b) 'Reporting On Line: The Internet and Terrorism'. 물

Sunstein, C. (2002) Republic.com.
Internet Corporation for Assigned Names and Numbers (ICANN) (2004) Fact Sheet,
http://www.icann.org/general/fact-sheet.html.
BC Panorama (2008) 'You Can Run . . . but Can You Hide?' BBC News, 24 October, http://news.bbc.co.uk/go/pr/fr/-/hi/programmes/panorama/7685043.stm. BBC Newsonline (2007) Cyber Crime $/$ /fr/-/hi/technology/6976308.stm.
Economist (2008) 'Identity Parade', published in The Electronic Bureaucrat: A Special Report, The Economist, 16 February.
Matai, D. K. Cyberland Securty: Organised Crime, Terrorism and the"', IBterne. p. 3.17 February, http://news.bbc.co.uk/go/pr/fr/-/hi/uk/7893890.stm.
Louw, E. (2005) The Media and Political Process. and ICTs', in Proceedings of the 5th European Conference on E-Government, Remenyi, D. (ed.)
 Loader, B. D. (eds) London: Routledge. pp. 39-59.

## Further reading

Dahlgren, P. (2001) 'The Transformation of Democracy?', in New Media and Politics, Axford, B.
and Hugins, R. (eds) London: Sage Publications. pp. 64-88.
Gibb, J. (2005) Who's Watching You? New York: Conspiracy Books.
Weimann, G. (2004) www. terror.net How Modern Terrorism Uses the Internet, United States Institute
of Peace Special Report 116, March, www.usip.org.

1 BBC Newsonline (2005) 'US Retains Hold of the Internet', $B B C$ http://news.bbc.co.uk/go/pr/fr/-/hi/technology/44441544.stm. news.bbc.co.uk/go/pr/fr/-/hi/technology/44441544 stm. news.bbc.co.uk/go/pr/fr/-/hi/technology/44441544.stm.
Klein, H. and Müller, M
Bossey, June, http://www.wgig.org/; Drake, W. J. (2005) Reforming Intem Perspectives from WGIG, ICT Task Force Series 12, Working Group on Internet C (WGIG).
54 Klein, H. and Müller, M. (2005) What to Do about ICANN: A Proposal for Structural Refo 56 Reporters Without Borders (2002) Anti-tere Internet? Washington Battles the Whe arg, 12 September, http://www thinkcerve Theatens Internet Fredum, whin 57 BBC Newsonline, 'US Retains Hold of the Internet'. World Summit on the Inf Society (WSIS) (2005) Tunis Agenda for the Information Society, Document 05/TUNIS/DOC/6(Rev.1)-E, http://www.itu.int/wsis/docs2/tunis/off/6rev1 Kawamoto, K. (2003) Media and Society in the Digital Age.

## Matai, D. K. Cyberland Security: Organised Crime, Terrorism and the Internet. p. 1.

## Conway, M. (2002) 'Reality Bites' p. 11

Ibid.
Celeste

## 64 Gibb, J. (2005) Who's Watching You? New York: Conspiracy Books.

Christian Science Monitor, October, 4 http://www.csimonitor.com/2005/1004/p01) woeu. html.
65 Grossman, W. M. (2006) 'Will Logging Your Email Combat Terrorism
Grossman, W. M. (2006) 'Will Logging Your Email Combat Terrorism in
Guardian Unlimited Technology Section, January, http://technology.guardian.co.uk story/0,16376,1683944,00.html.
68 Gibb, J. (2005) Who's Watching You?
69 BBC Newsonline (2009) 'Anti-terror Tactics Weaken Law', BBC News, 16 February
http://news.bbc.co.uk/go/pr/fr/-/hi/world/europe/7892387.stm.
70 Raab, C. D. (1997) 'Privacy, Democracy, Information', in The Governance of Cybenpas Loader, B. D. (ed.) London: Routledge. pp. 155-174.
Gibs, J. (2005) Who's Watching You?' Loundy, D. (1995) ‘Constitution Pr
11 May, accessed http://www.loundy.com/CDLB/Terrorism.html.
Loader, B. D. (ed.) London: Routledge. pp. 1-19.
Williams, B. A. (2003) 'The New Media Environment, Internet Chatrooms and Publie Sage Publications. pp. 176-189. Gibb, J. (2005) Who's Watching You? p. 20.
Sunstein, C. (2002) Republic.com.
Reporters Without Borders (200
Reporters Without Borders (2002) Anti-terrorism Drive Threatens Internet Freedoms.
Weimann, G. (2004) www.terror.net. p. 12.
30 Lyon, D. (2004) Surveillance after September 11. Cambridge: Polity Press.
Loundy, D. (1995) 'Constitution Protects All Modes of Speech'; Celeste, S. (2005) 'Want
to Check Your E-Mail in Italy? Bring Your Passport'; Reporters Without Borders (2002 Anti-terrorism Drive Threatens Internet Freedoms.

