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# Funding Bin Laden's Avatar: A Proposal for the Regulation of Virtual Hawalas

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# FUNDING BIN LADEN'S AVATAR: A PROPOSAL FOR THE REGULATION OF VIRTUAL HAWALAS

# Stephen I. Landman<sup>†</sup>

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# I. INTRODUCTION

"[T]he Metaverse is wide open and undefended, like airports in the days before bombs and metal detectors, like elementary schools in the days before maniacs with assault rifles. Anyone can go in and do anything they want to. There are no cops. You can't defend yourself, you can't chase the bad people."

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<sup>1.</sup> NEAL STEPHENSON, SNOW CRASH 328 (1992). Fiction author Stephenson is credited with coining the phrase "metaverse," a virtual world where individuals can interact with each other through an online version of the real world. This article

For nearly a decade, the United States has conducted operations aimed at destroying suspected terrorist training camps from the deserts of Sudan to the mountains of Afghanistan and many places in between. Yet, one need only open a newspaper to see that groups such as al Qaeda, Hezbollah, Hamas, and their ilk still retain the ability to effectively plan, finance, and carry out attacks.<sup>2</sup> This is due, in part, to an unintended consequence of the war on terrorism: the ability of terrorist groups to almost seamlessly transition from the battlefields of the Middle East and northern Africa to the virtual worlds of the Internet.<sup>3</sup>

Although groups like al Qaeda consistently demonstrate an aptitude for adapting to changing technologies,<sup>4</sup> the accessibility of the Internet has expanded every facet of their operations, from the spread of propaganda to the planning, financing, and preparation of terrorist attacks.<sup>5</sup> As traditional modes of operation are identified, terrorism has evolved by exploiting many of the attributes for which the Internet has become so popular. The Internet's ease of access, fast flow of information, anonymity of communications, and dearth of regulation have revolutionized the command and control structure of modern terrorist organizations.<sup>6</sup>

Once constrained by real-world impediments, terrorist groups now have unlimited resources at their disposal by shifting to the use

uses the term "virtual world," generally considered synonymous with "metaverse."

<sup>2.</sup> See, e.g., Isabel Kershner, Israel: 6 Charged in al Qaeda Plan, N.Y. TIMES, July 19, 2008, at A6 (discussing the breakup of an al Qaeda cell attempting to attack President Bush's helicopter); Robert F. Warth & Nada Bakri, *Hezbollah Seizes Swath of Beirut from U.S.-Backed Lebanon Government*, N.Y. TIMES, May 10, 2008, at A5 (discussing Hezbollah's recent incursion and seizure of Western Beirut).

<sup>3.</sup> See generally Terrorist/Jihadist Use of the Internet for Strategic Communications: Hearing Before the H. Permanent Select Comm. on Intelligence, 109th Cong. (May 4, 2006) (statement of Dr. Bruce Hoffman, Corporate Chair, Counterterrorism and Counterinsurgency & Director, RAND Corp.), available at http://intelligence.house.gov/Media/PDFS/Hoffman4May06.pdf.

<sup>4.</sup> See JOHN ROTH, DOUGLAS GREENBURG & SERENA WILLE, NAT'L COMM'N ON TERRORIST ATTACKS UPON THE U.S., MONOGRAPH ON TERRORIST FINANCING 29 [hereinafter MONOGRAPH], available at http://www.9-11commission.gov/staff\_statements/911\_TerrFin\_Monograph.pdf (last visited Apr. 2, 2009) ("[A]I Qaeda adapts quickly and effectively, creating new difficulties in understanding its financial picture.").

<sup>5.</sup> See GABRIEL WEIMANN, U.S. INST. OF PEACE, SPECIAL REPORT NO. 116, WWW.TERROR.NET: HOW MODERN TERRORISM USES THE INTERNET 3 (Mar. 2004), available at http://www.usip.org/pubs/specialreports/sr116.pdf ("[T]he Internet is ... an ideal arena for activity by terrorist organizations.").

<sup>6.</sup> *Id*.

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of developing technologies and exploiting a wide range of digital platforms in order to meet their organizational needs. From password-protected discussion forums to encrypted websites, the ability of terrorist groups to take advantage of technology is limited only by their creativity and the availability of the platforms. Terrorist groups have shifted from the battlefields and training camps of the Middle East to the virtual worlds of the Internet.

Virtual worlds are computer-based, simulated environments where millions of users can interact with each other on a daily basis.<sup>7</sup> Once in-world, users participate in many of the same realworld activities of their daily lives. Because virtual worlds are meant to mirror the real world, many have virtual economies, allowing users to not only connect with one another, but also to conduct financial transactions.<sup>8</sup> Two of the more popular, and arguably advanced, of the virtual words are Second Life (SL) and Entropia Universe (EU).<sup>9</sup> Although the ability to buy, trade, and sell both tangible and intangible items in virtual worlds like SL and EU offers an entirely new marketplace for goods, these virtual economies are potentially vulnerable to exploitation by terrorist financiers.<sup>10</sup>

One of the prime objectives of the war on terror is to prevent the free flow of money to international terrorist organizations.<sup>11</sup> As

<sup>7.</sup> Virtual worlds go by many names, but, at their most basic level, they are "computer based, simulated, persistent environments that support synchronous interactions between users personified as avatars." Online Virtual Worlds: Applications and Avatars in a User-Generated Medium: Hearing Before the H. Subcomm. on Telecom. and the Internet, 110th Cong. 2 (Apr. 1, 2008) (statement of Dr. Colin J. Parris, Vice President, Digital Convergence, IBM Corp.).

<sup>8.</sup> See id. at 7 (discussing social networking and economic capabilities of virtual worlds).

<sup>9.</sup> See generally Jonathan Fildes, The Ever-Expanding Metaverse, BBC NEWS, Nov. 3, 2006, http://news.bbc.co.uk/2/hi/technology/6111738.stm. SL and EU allow users to buy, sell, and transfer real-world currency for Lindens and Peds, respectively. Avatrian Homepage, http://www.avatrian.com/virtualworlds.php (last visited Apr. 2, 2009).

<sup>10.</sup> See generally Izelde Van Jaarsveld, Following the Money Across Cyber Highways: A Herculean Task or International Challenge? Some Thoughts on Money Laundering on the Internet, 16 S. AFR. MERCANTILE L. J. 685 (2004) (highlighting potential Internet abuse by money launderers and attempts to prevent such abuse).

<sup>11.</sup> President's Address Before a Joint Session of Congress on the United States Response to the Terrorist Attacks of September 11, 37 WEEKLY COMP. PRES. DOC. 1347 (Sept. 20, 2001) [hereinafter Presidential Address] ("We will direct every resource at our command, every means of diplomacy, every tool of intelligence, every instrument of law enforcement, every financial influence... to the disruption and to the defeat of the global terror network.").

U.S. and international law enforcement officials continue to curb abuse of the formal financial sector—e.g., banks—terrorist financiers have shifted to underground banking.<sup>12</sup> Broad in scope, "underground banking" refers to almost any type of informal value transfer system outside traditional banking.13 Underground banking attracts terrorist financiers with its anonymity and lack of regulation, two key attributes of the developing economies within virtual worlds. As financial transactions within virtual worlds become more accessible and widespread, law enforcement officials must recognize the potential for abuse by groups seeking to carry out acts of terrorism and respond vigorously. Accordingly, any counterterrorist financing policies must not only reduce the use of known underground banking methods, but also institute effective recordkeeping and reporting requirements to prevent the abuse of new methods of transferring funds.

This article explores the use of the Internet by international terrorist organizations generally, concentrating on virtual worlds as a means for such organizations to plan, finance, and carry out attacks. Part I discusses numerous ways in which the Internet and other technological innovations have affected terrorist groups, tracing the platforms used and the activities engaged in by these organizations, broadly defined as the "virtualization of terrorism."<sup>14</sup> Part II examines the evolution of terrorist financing, suggesting that, as terrorists continue to adapt to new and developing technologies, law enforcement officials and policymakers must recognize the vulnerability of virtual worlds as the new front in the war on terrorist financiers.<sup>15</sup> Part III then analyzes the existing regulatory regime for countering terrorist financing, explaining that, as additional enforcement mechanisms have reduced the

<sup>12.</sup> See generally U.S. GEN. ACCOUNTING OFFICE, TERRORIST FINANCING: U.S. AGENCIES SHOULD SYSTEMATICALLY ASSESS TERRORISTS' USE OF ALTERNATIVE FINANCING MECHANISMS 9 (2003) [hereinafter USE OF ALTERNATIVE FINANCING MECHANISMS], available at http://www.gao.gov/new.items/d04163.pdf ("Terrorists use an assortment of alternative financing mechanisms to earn, move, and store their assets.").

<sup>13.</sup> See U.S. DEP'T OF TREASURY, A REPORT TO THE CONGRESS IN ACCORDANCE WITH SECTION 359 OF THE UNITING AND STRENGTHENING AMERICA BY PROVIDING APPROPRIATE TOOLS REQUIRED TO INTERCEPT AND OBSTRUCT TERRORISM ACT OF 2001 5-6 (Nov. 2002) [hereinafter REPORT TO CONGRESS], available at http://www.fincen.gov/news\_room/rp/files/hawalarptfinal11222002.pdf (discussing the use of informal value transfer systems to raise and move money).

<sup>14.</sup> See infra Part I.

<sup>15.</sup> See infra Part II.

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vulnerability of formal financial institutions, informal systems such as virtual worlds remain largely open to terrorist dollars.<sup>16</sup> This article concludes by proposing that law enforcement officials can more effectively curb the abuse of both formal and informal financial sectors by extending the existing regulatory regime to virtual worlds.<sup>17</sup>

### II. THE VIRTUALIZATION OF TERRORISM

"[Y]ou didn't have to speak Arabic in the mid 90's to know that terrorism had shifted its focus and you don't have to write code to understand that has changed again."<sup>18</sup>

Before U.S. counterterrorism law and policy can begin to combat the ongoing virtualization of terrorism effectively, government officials must first understand how terrorist groups use the Internet. When considering use of the Internet by terrorist organizations, it is useful to distinguish two categories: (1) cyberterrorism, attacks aimed primarily at Internet targets,<sup>19</sup> and (2) cyber-based terrorism, attacks that are undertaken in the real world, but planned and financed in the virtual world. While the threats posed to electronic infrastructure are significant, they are not the focus of this article.<sup>20</sup> Instead, this article concentrates on

19. "Cyberterrorism" can be defined as "the politically motivated use of computers as weapons or as targets, by sub-national groups or clandestine agents intent on violence, to influence an audience or cause a government to change its policies." Clay Wilson, Computer Attack and Cyber Terrorism: Vulnerabilities and Policy Issues for Congress, CRS REPORT FOR CONGRESS, RL32114, Oct. 17, 2003, at 4, reprised in Clay Wilson, Botnets, Cybercrime, and Cyberterrorism: Vulnerabilities and Policy Issues for Congress, CRS REPORT FOR CONGRESS, RL32114, Jan. 29, 2008, at 3-4; see also Mohammad Iqbal, Defining Cyberterrorism, 22 J. MARSHALL J. OF COMPUTER & INFO. L. 397 (2004) (overview of the evolution of cyberterrorism).

20. Cyberterrorism has been addressed by a number of scholarly journals. See, e.g., Susan W. Brenner & Marc D. Goodman, In Defense of Cyberterrorism: An Argument for Anticipating Cyber-Attacks, 2002 U. ILL. J.L. TECH. & POL'Y 1 (2002) (explaining inevitability of cyberterrorism and the need for American law enforcement to remain vigilant); Tara Mythri Raghavan, In Fear of Cyberterrorism: An Analysis of the Congressional Response, 2003 U. ILL. J. L. TECH. & POL'Y 297 (2003)

<sup>16.</sup> See infra Part III.

<sup>17.</sup> See infra Part IV.

<sup>18.</sup> Posting of Andrew Cochran to Counterterrorism Blog, Event Transcript and Related Links: Meta-Terror: Terrorism and the Virtual World, http://www.counterterrorismblog.org/2008/03/event\_transcript\_and\_related\_l.p hp (Mar. 7, 2008, 14:37 EST) [hereinafter Meta-Terror] (statement of Roderick Jones) (discussing the evolution of terrorism and highlighting the importance of understanding the "virtualization of terrorism").

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the equally troublesome use of new technologies to secretly undertake what was once accomplished, or at least attempted, in the real world.

# A. The Marketplace of Terrorist Ideas Goes Digital

As cyber-based terrorism continues to expand, there are a few areas in which terrorist groups have shown both desire and ability to abuse otherwise legitimate systems to further their criminal ends. A recent study found that although only half of the thirty organizations designated as "Foreign Terrorist Organizations"<sup>21</sup> maintained websites in 1998,<sup>22</sup> "by 2000, virtually all terrorist groups had established their presence on the Internet."<sup>23</sup> As these statistics reflect, the Internet has significantly expanded the opportunities available for terrorists to secure publicity and spread propaganda as well as revolutionized the process of enlistment.

Prior to being captured by British investigators in the fall of 2005, a key conduit for al Qaeda online was Younis Tsouli, better known as "Irhabi 007." As one news report declared: "Irhabi 007 had propelled the jihadists into a 21st century offensive through his ability to covertly and securely disseminate manuals of weaponry, videos of insurgents feats such as beheadings and other inflammatory material."<sup>24</sup> By exploiting the Internet's anonymity and dearth of regulation, Irhabi 007 and, others like him, have not only expanded the ability of terrorist organizations to spread propaganda and recruit new fighters, but also to undertake more substantive offenses.<sup>25</sup>

22. WEIMANN, supra note 5, at 2.

<sup>(</sup>analyzing the evolution of cyber-security related laws in the United States).

<sup>21.</sup> See U.S. DEP'T OF TREASURY, OFFICE OF FOREIGN ASSETS CONTROL, SPECIALLY DESIGNATED NATIONALS & BLOCKED PERSONS, http://www.treas.gov/offices/enforcement/ofac/sdn/t11sdn.pdf (last visited Apr. 2, 2009) (compilation of individuals and organizations identified by the U.S. Government for their connection to terrorism); see also Audrey Kurth Cronin, The "FTO List" and Congress: Sanctioning Designated Foreign Terrorist Organizations, CRS REPORT FOR CONGRESS, RL32120, Oct. 21, 2003, at 1-3 (discussing the process of designating an individual or entity as a terrorist).

<sup>23.</sup> Id. at 2; see also id. at 1-4 (conducting a thorough evaluation of terrorist presence on the Internet and breaking down the results by geographic location, with the majority of groups located in the Middle East and Asia).

<sup>24.</sup> Rita Katz & Michael Kern, Terrorist 007, Exposed, WASH. POST, Mar. 26, 2006, at B01.

<sup>25.</sup> See id.

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### B. Virtual Terrorist Training Camps

By exploiting technology, terrorists can use the Internet to plan and coordinate specific attacks. Primarily, the Internet serves as a tool for intelligence-gathering, providing access to a broad range of material on potential targets from simple maps to aerial photographs. Israeli officials reported last year that "[m]ilitant Palestinian groups who have been launching rockets into the Western Negev from the Gaza Strip have been using Google's popular satellite imagery program 'Google Earth' to reconnoiter areas in Israel to be targeted for attack."<sup>26</sup>

As technology advances, computer-savvy terrorists can create password-protected forums that operate as virtual terrorist training camps. Roderick Jones, former member of the United Kingdom's Counter-Terrorism Command, explained that the worst-case scenario is "an expert bomb maker conducting a virtual lecture with his students all present and able to ask questions and check their knowledge and virtually manipulate the necessary parts."<sup>27</sup>

More disconcerting, however, is that terrorist groups can now orchestrate training programs that would have been nearly impossible in many of the training camps based in the Afghan mountains and Federally Administered Tribal Areas of Pakistan. For example, Microsoft's new program "Photosynth" allows users to take a collection of photos of a location; have them analyzed for similarities; and display them in a reconstructed three-dimensional space.<sup>28</sup> The potential for abuse of a program such as this is clear it provides terrorist groups a virtual world in which to essentially "Red Team" potential attacks against a target prior to an attack.<sup>29</sup>

<sup>26.</sup> Report: Militants Using Google Earth to Pick Targets in Israel, HAARETZ.COM, Oct. 25, 2007, http://www.haaretz.com/hasen/spages/917036.html.

<sup>27.</sup> Meta-Terror, supra note 18 (statement of Roderick Jones).

<sup>28.</sup> Microsoft Live Labs, What is Photosynth?, MICROSOFT CORP., http://photosynth.net/about.aspx (last visited Apr. 2, 2009).

<sup>29.</sup> The opposing force in a simulated military conflict is known as the "Red Team" and is used to reveal weaknesses in current military readiness. See Marcus Spade, Army Approves Plan to Create School for Red Teaming, July 13, 2005, http://www.tradoc.army.mil/pao/tnsarchives/July05/070205.htm. These same techniques could be used by terrorist groups. See Barton Gellman, FBI Fears al Qaeda Cyber Attacks, S.F. CHRON., June 28, 2002, at A1 (captured computer contained engineering and structural architectural features of a dam, enabling al Qaeda engineers and planners to simulate catastrophic failures).

### C. Web-Based Terrorist Financing

The logistical implications of the virtualization of terrorism are not limited to propaganda, recruitment, and e-learning. In order to ensure continued survival, terrorists "need to raise funds [and] open and use bank accounts to transfer money."<sup>30</sup> For financing, terrorist organizations historically have been attracted to operating in unregulated jurisdictions—those "places with limited bank supervision, no anti-money laundering laws, ineffective law enforcement institutions, and a culture of no-questions-asked bank secrecy."<sup>31</sup> The Internet, with its relative ease of use and anonymity, satisfies many of these needs.

# III. BY ANY MEANS NECESSARY: THE EVOLUTION OF TERRORIST FINANCING

"There are two things a brother must always have for jihad, the self and money."<sup>32</sup>

Although opinions differ on the operating costs for terrorist organizations<sup>33</sup> and the cost of an "average" terrorist attack,<sup>34</sup> a

<sup>30.</sup> A Review of the Material Support to Terrorism Prohibition Improvements Act: Hearing Before the Subcomm. on Terrorism, Technology and Homeland Security of the S. Comm. on the Judiciary, 109th Cong. (Apr. 20, 2005) (statement of Barry Sabin, Chief, Counterterrorism Section of the Criminal Division, Department of Justice).

<sup>31.</sup> MAURICE R. GREENBERG ET AL., COUNCIL ON FOREIGN RELATIONS, TERRORIST FINANCING: REPORT OF AN INDEPENDENT TASK FORCE SPONSORED BY THE COUNCIL ON FOREIGN RELATIONS 9 (2002), *available at* http://www.cfr.org/content/publications/attachments/Terrorist\_Financing\_TF.p df.

<sup>32.</sup> MONOGRAPH, supra note 4, at 17 n.5 (quoting an al Qaeda operative).

<sup>33.</sup> One source for deriving these estimates is the annual report of blocked terrorist assets pursuant to economic sanctions issued by the U.S. Treasury Department's Office of Foreign Asset Control. See, e.g., U.S. DEP'T OF TREASURY, OFFICE OF FOREIGN ASSET CONTROL, TERRORIST ASSETS REPORT: CALENDAR YEAR 2005, FOURTEENTH ANNUAL REPORT TO CONGRESS ON ASSETS IN THE UNITED STATES OF TERRORIST COUNTRIES AND INTERNATIONAL TERRORISM PROGRAM DESIGNEES 8 (showing that total assets blocked from seven terrorist groups totaled \$13,793,102 in 2005), available at

http://www.treas.gov/offices/enforcement/ofac/reports/tar2005.pdf.

<sup>34.</sup> See The Financing of Terror Organizations, Counterterror Initiatives in the Terror Finance Program: Organization of Terror Groups for Funding and Future U.S. Responses: Hearings Before the S. Comm. on Banking, Housing, and Urban Affairs, 108th Cong. 69 (2003) (statement of Dr. Louise Richardson, Executive Dean, Radcliffe Institute for Advanced Study, Harvard University) (arguing that while 9/11 cost an estimated half million dollars, the average terrorist attack costs much less); U.S. DEP'T OF STATE, 2003 INT'L NARCOTICS CONTROL STRATEGY REPORT, PART II: MONEY

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greater ability to track and restrict the sources of terrorist funding would markedly deter the ability of terrorist groups to perpetrate attacks.<sup>35</sup> Consequently, in the fight against international terrorism, a prime objective of law enforcement and intelligence agencies is restricting the free flow of money to terrorist organizations.<sup>36</sup>

Despite law enforcement's best efforts, terrorists continue to adapt and develop new methods of financing their organizations, avoiding detection while maintaining a viable financial infrastructure.<sup>37</sup> Depending on operational needs and existing risks, al Qaeda can employ a variety of mechanisms to transfer its wealth to areas where it is needed.<sup>38</sup> As Dennis Lormel explains, "[o]ne of the true challenges in dealing with terrorist financing is the recognition of the dynamics of change, and understanding that... financing methodologies will constantly change to avoid detection."<sup>39</sup>

35. See Progress Since 9/11: The Effectiveness of U.S. Anti-Terrorist Financing Efforts: Hearing Before the Subcomm. on Oversight and Investigations of the H. Comm. on Financial Services, 108th Cong. 7 (Mar. 11, 2003) (testimony of Alice Fisher, Deputy Assistant Attorney General, U.S. Department of Justice) (detailing the Justice Department's terrorist financing enforcement programs).

36. See The Financial War on Terrorism, New Money Trails Present Fresh Challenges: Hearing Before the S. Finance Comm., 108th Cong. 5 (2002) [hereinafter New Money Trails] (statement of James Gurule, Undersecretary of Enforcement, U.S. Department of the Treasury) (reporting that U.S. counterterrorist financing strategy has been "to follow the money trail, and dismantle entire financial networks and channels from moving money to finance terror"), available at http://finance.senate.gov/hearings/84922.pdf.

37. See USE OF ALTERNATIVE FINANCING MECHANISMS, supra note 12, at 4; U.S. GEN. ACCOUNTABILITY OFFICE, COMBATING TERRORISM, FEDERAL AGENCIES FACE CONTINUING CHALLENGES IN ADDRESSING TERRORIST FINANCING AND MONEY LAUNDERING 6 (2004), available at http://www.gao.gov/new.items/d04501t.pdf.

38. MONOGRAPH, supra note 4, at 52–53 ("The hijackers moved money into the United States in three ways. They received wires totaling approximately \$130,000 from overseas facilitators in the United Arab Emirates and Germany; they physically carried large amounts of cash and traveler's checks with them; and some set up accounts overseas, which they accessed in the United States with credit or ATM cards. Once here, the hijackers opened bank accounts in their real names at U.S. Banks, which they used just as millions of other people do ....").

39. Dennis Lormel, Terrorist Financing, the Dynamics of Change, Jan. 11, 2005,

LAUNDERING & FINANCIAL CRIMES (Mar. 2004), http://www.state.gov/p/inl/rls/nrcrpt/2003/vol2/html/29843.htm ("While actual terrorist operations require only comparatively modest funding, international terrorist groups need significant amounts of money to organize, recruit, train and equip new adherents; and otherwise support their activities."). The FBI concluded that the 9/11 attacks cost \$303,672. Paul Beckett, Sept. 11 Attacks Cost \$303,672, But Few Details of Plot Surface, WALL ST. J., May 15, 2002, at B4.

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### A. Formal Financial Institutions

The international banking system provides a broad array of financial services and convenience unmatched by any other monetary system in the world and, as a result, is the first choice for most international organizations—legitimate or otherwise—to move and store funds.<sup>40</sup> The September 11 attacks are merely one example in which terrorist groups exploited the weaknesses of the formal financial system.<sup>41</sup> Each of the hijackers maintained personal accounts at major financial institutions, such as Bank of America and SunTrust, as well as smaller regional banks.<sup>42</sup> While in the United States, their expenses, including the actual cost of the attacks, were funded by approximately \$300,000 deposited using a combination of wire transfers, traveler's checks, and debit or credit cards with access to funds held in foreign financial institutions.<sup>43</sup>

Despite the administrative burdens, most financial institutions have contributed tremendously to the global financial war on terrorism.<sup>44</sup> Recognizing the importance of inhibiting terrorist financing and the difficulty associated with monitoring individual transactions to determine the final destination of otherwise innocuous funds, formal financial institutions have begun to implement stricter oversight systems to better detect the financial activity of terrorist organizations.<sup>45</sup> The results have been reduced

- 42. See MONOGRAPH, supra note 4, at 140.
- 43. See id. at 3.

45. See Adam Rombel, Banks Battle Terror Financing with Software, 16 GLOBAL FINANCE 44 (2002) (discussing the niche industry born out of new compliance

http://www.corprisk.com/publications/press-releases/special-

reports/Terrorist%20Financing,%20the%20Dynamics%20of%20change.pdf.

<sup>40.</sup> Cf. MONOGRAPH, supra note 4, at 3 ("The September 11 hijackers used U.S. and foreign financial institutions to hold, move, and retrieve their money.").

<sup>41.</sup> Id. at 131 ("The hijackers and their financial facilitators used the anonymity provided by the huge international and domestic financial system to move and store their money through a series of unremarkable transactions."); see also Linde v. Arab Bank PLC, 384 F. Supp. 2d 571 (E.D.N.Y. 2005) (alleging material support of terrorists, victims of attacks in Israel file suit against Jordanian bank); Weiss v. Nat'l Westminster Bank PLC, 453 F. Supp. 2d 609 (E.D.N.Y. 2006) (alleging material support of terrorists, victims of attacks in Israel file suit against British bank).

<sup>44.</sup> See, e.g., Joseph M. Myers, The Silent Struggle Against Terrorist Financing, 6 GEO. J. INT'L AFF. 33, 35 (2005) ("The financial services sector, which had previously opposed many of the PATRIOT Act provisions, was extraordinarily cooperative and patient with the United States and other countries trying to unravel the financial trail left by the 9/11 hijackers."); Leo Wolosky & Stephen Heifetz, Regulating Terrorism, 34 L. & POL'Y INT'L BUS. 1, 1 (2002) (regulations now require financial institutions to report on suspicious transactions).

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vulnerability within the formal financial sector to terrorist financing schemes.<sup>46</sup> Despite these successes, the informal banking system remains open for business to terrorist dollars.<sup>47</sup>

# B. Informal Financial Institutions

Although existing regulatory mechanisms have been very effective, terrorist organizations and their financiers remain highly adaptive entities.<sup>48</sup> Since they can no longer safely use the international banking system, terrorist financiers have turned to underground banking systems.<sup>49</sup> Informal financial networks,

47. See Matthew A. Levitt, The Political Economy of Middle East Terrorism, 6 MIDDLE EAST REV. OF INT'L AFF., ISSUE 4 (2002) ("Beyond the official international banking system, unofficial banking systems and hawala are of particular concern."), available at http://meria.idc.ac.il/journal/2002/issue4/jv6n4a3.html.

48. See Eric J. Gouvin, Bringing Out the Big Guns: The USA Patriot Act, Money Laundering, and the War on Terrorism, 55 BAYLOR L. REV. 955, 962, 978 (2003); see also Herbert V. Morais, Behind the Lines in the War on Terrorist Funding, 20 INT'L FIN. L. REV. 34, 37 (2001) ("A fly in the ointment of law enforcement efforts to track down, freeze and confiscate funds earmarked for terrorists is that some of these funds are moved through 'underground banking' channels or alternative remittance systems that are widely used in the Middle East and south Asia."); USE OF ALTERNATIVE FINANCING MECHANISMS, supra note 12, at 30 ("[O]nce terrorists know that authorities are scrutinizing a mechanism they use to earn, move, or store assets, they may switch to an alternate industry, commodity, or fundraising scheme to avoid detection.").

49. See REPORT TO CONGRESS, supra note 13, at 6; Alan Lambert, Organized Crime, Terrorism and Money Laundering in the Americas: Underground Banking and Financing of Terrorism, 15 FLA. J. INT'L L. 9, 12 (2002) (defining "underground banking" as "that secretive and mysterious global structure for facilitating the transfer of funds between countries without touching the recognized and regulated international financial systems, and in most cases, without any meaningful records being kept"); see generally New Money Trails, supra note 36, at 8 (prepared statement of Alan Larson, Under Secretary of State for Economic, Business & Agricultural Affairs) (explaining that an increase in oversight and due diligence in the non-Islamic banking system has prompted terrorist groups to shift

measures). But see Scot J. Paltrow, U.S. Says Banks Overreport Data for Patriot Act, WALL ST. J., July 7, 2005, at C1.

<sup>46.</sup> See, e.g., Combating International Terrorist Financing: Hearing Before the H. Financial Services Subcomm. on Domestic and International Monetary Policy, Trade and Technology and Oversight and Investigations, 108th Cong. 1-2 (Sept. 30, 2004) (prepared statement of Juan Carlos Zarate, Assistant Secretary, Office of Terrorist Financing and Financial Crimes, U.S. Department of the Treasury) ("[W]e have developed international standards to fight terrorist financing, built greater global capacity, broadened and deepened our own regulatory system, built international systems to share information about suspect networks, frozen and seized terroristrelated assets, arrested and isolated key financial intermediaries and donors, and improved the international safeguards around the financial system."), available at http://financialservices.house.gov/media/pdf/093004jz.pdf.

collectively referred to as "informal value transfer systems" (IVTS),<sup>50</sup> exist outside of the modern banking system but serve a similar purpose—to facilitate the transfer of valued goods and money.<sup>51</sup>

Although one obvious benefit of IVTS for terrorist financiers is that it operates outside the bounds of the traditional financial system, there are many other reasons why IVTS may be preferred to ordinary banks.<sup>52</sup> IVTS are reliable, efficient, anonymous, and available twenty-four hours a day, seven days a week.<sup>53</sup> The true extent of terrorist use of these systems is unknown, a result of both the criminal nature of the activity and the lack of systematic data collection and analysis.<sup>54</sup> Estimates regarding the annual flow of transactions through informal banking systems range from \$200 billion to "tens of billions."<sup>55</sup> Others believe the amount cannot be quantified with any certainty.<sup>56</sup>

The most well-known IVTS is hawala.<sup>57</sup> Groups like al Qaeda

53. See FINCEN ADVISORY, supra note 52, at 3; see also Alan Lambert, Underground Banking and Financing of Terrorism, 15 FLA. J. INT'L L. 3, 15 (2002).

54. USE OF ALTERNATIVE FINANCING MECHANISMS, *supra* note 12, at 3 ("[The FBI] do[es] not systematically collect and analyze data on alternative financing mechanisms.").

55. Id. at 24.

56. Id.

towards hawala and other alternative remittance systems).

<sup>50.</sup> Informal Value Transfer System is defined as a "system or network of people facilitating, on a full-time or part-time basis, the transfer of value domestically or internationally outside the conventional, regulated financial institutional systems." NIKOS PASSAS, WODC, INFORMAL VALUE TRANSFER SYSTEMS & CRIMINAL ORGANIZATIONS; A STUDY INTO SO-CALLED UNDERGROUND BANKING NETWORKS 11 (1999), available at http://www.apgml.org/frameworks/docs/8/Informal%20Value%20Transfer%20 Systems%20-%20Passas.pdf.

<sup>51.</sup> Cf. Amos N. Guiora & Brian J. Field, Using and Abusing the Financial Markets: Money Laundering as the Achilles' Heel of Terrorism, 29 U. PA. J. INT'L L. 59, 62 (2007) ("[T]he use of Informal Value Transfer Systems ("IVTS") is commonly referred to as 'underground banking' because, although operating akin to a banking system, the IVTS does so without the formal requirements of institutional banking.").

<sup>52.</sup> See Courtney J. Linn, One-Hour Money Laundering, 8 U.C. DAVIS BUS. L. J. 138, ¶ 2 (2007) ("Compared to banks, [non-bank financial institutions] face little regulatory scrutiny, and tend to have fleeting relationships with their customers, making customer due diligence very difficult."); U.S. DEP'T OF TREASURY FIN. CRIMES ENFORCEMENT NETWORK, FINCEN ADVISORY, INFORMAL VALUE TRANSFER 2 - 3(2003)[hereinafter FINCEN ADVISORY], available SYSTEMS at (highlighting http://www.fincen.gov/news\_room/rp/advisory/pdf/advis33.pdf benefits to IVTS users).

<sup>57.</sup> PASSAS, *supra* note 50, at 13-25 (outlining a family of traditional IVTS systems with different names depending on geographic location and ethnic group and identifying many varieties).

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have systematically used hawala because, unlike formal financial institutions, they neither were traditionally subject to potential government oversight nor did they keep detailed records.<sup>58</sup> Evidence shows "the *hawala* network has been used to funnel money to terrorist groups in the disputed Kashmir valley... [and] as a conduit for funding the 1998 bombings of U.S. embassies in Kenya and Tanzania."<sup>59</sup> Recently, the U.S. Government, in cooperation with international law enforcement, has worked to curb the abuse of hawala, forcing terrorist financiers to find new methods for transmitting money.<sup>60</sup>

### C. Virtual Worlds: The New Front in the War on Terrorist Financing

The expansion of the Internet and the evolution of IVTS have opened up virtual worlds as potentially useful mechanisms for transferring funds to cells around the world. Virtual worlds provide many of the same characteristics as the existing IVTS network: they are fast, inexpensive, reliable, convenient, and—most notably discreet.<sup>61</sup> Moreover, financiers no longer need to leave the comfort of their own homes to successfully transfer large sums of money to those looking to carry out horrific attacks. The development of virtual economies, along with the dearth of regulation, makes virtual worlds the new frontier in IVTS.

The ability to conduct real-time, in-world transactions in

<sup>58.</sup> MONOGRAPH, supra note 4, at 25; see also USA PATRIOT Act/Terrorism Financing Operations Section: Hearing Before the Subcomm. on Technology, Terrorism, and Government Information of the S. Comm. on the Judiciary, 107th Cong. (Oct. 9, 2002) (testimony of Dennis Lormel, Chief, Terrorist Financing Operations Section, Counterterrorism Division, FBI) ("Informal Value Transfer systems, such as 'Hawalas,' also present problems for law enforcement. They permit terrorists a means of transferring funds that is difficult to detect and trace. These informal systems are commonplace and appear to serve as an efficient means of transacting in mostly 'cash' societies such as Pakistan, Afghanistan, and the Phillippines [sic].").

<sup>59.</sup> Lambert, supra note 53, at 12 (emphasis added).

<sup>60.</sup> See REPORT TO CONGRESS, supra note 13, at 6–10 (explaining that the Bank Secrecy Act's recordkeeping and reporting requirements reach the types of informal unconventional entities operating outside of the mainstream financial system like hawala); see also supra Part III.A (discussing existing counterterrorist financing regulations and their application to informal financial networks).

<sup>61.</sup> See Posting of David Grundy to MetaSecurity: Security of Virtual Worlds, Virtual Worlds as a Possible Alternative Remittance System (ARS), http://metasecurity.net/2007/06/25/virtual-worlds-as-a-possible-alternate-

remittance-system-ars/ (June 25, 2007) (discussing the potential use of virtual worlds for money laundering and terrorist financing); see also supra Part I.B (identifying vulnerabilities of virtual worlds).

virtual currency that can then be exchanged for U.S. dollars or other regional currencies has made virtual worlds widely popular.<sup>62</sup> Virtual worlds allow users to transfer real funds in a variety of ways, including credit cards, traditional bank accounts, pre-paid debit cards, and PayPal accounts.<sup>63</sup> Despite the obvious benefits of an expanding virtual economy, officials must acknowledge that this economy is no different than the real-world economy when it comes to financial crime. Virtual worlds are especially susceptible to manipulation by terrorist financiers because they escape regulation and observation by law enforcement.<sup>64</sup>

The primary concern is paltry customer identification rules associated with virtual worlds. In traditional banking, customer identification procedures are implemented both during account origination and in subsequent transactions.<sup>65</sup> However, the nature of virtual worlds limits the ability to accurately identify customers at each of these stages, rendering all customers more vulnerable to financial crimes.<sup>66</sup>

Currently, the virtual worlds of SL and EU have limited abilities to verify their residents' identities. SL, for instance, maintains few verification procedures for accurately confirming the personal information of individuals who buy, sell, and transfer Lindens in-world.<sup>67</sup> To the extent that Linden Labs was interested

<sup>62.</sup> See Meta-Terror, supra note 18.

<sup>63.</sup> Brian Monroe, ATM Cards Tied to Virtual Worlds a "Money Launderer's Dream." MONEY LAUNDERING ALERT. Dec. 2007.http://www.moneylaundering.com/ArticleDisplay.aspx?id=3491 (non-subscriber access by following "Printable Format"); Online Discussion with Evan Kohlmann, International Terrorism Consultant, Al Qaeda and the Internet, WASH. POST, Aug. 8, 2005.http://www.washingtonpost.com/wpdyn/content/discussion/2005/08/05/DI2005080501262.html (enabling any individual or business with an e-mail address to send and receive money online. PayPal has developed into a "global leader" in online payment technology, boasting 35 million account members worldwide).

<sup>64.</sup> See Kevin Sullivan, Virtual Money Laundering and Fraud, ANTI-MONEY LAUNDERING TRAINING,

http://www.amltrainer.com/assets/images/productpics/KS-VirtualMoneyLaunderingandFraud.pdf (last visited Apr. 3, 2009) (identifying vulnerabilities that make a hypothetical money laundering scheme possible).

<sup>65.</sup> FED. FIN. INST. EXAMINATION COUNCIL, AUTHENTICATION IN AN INTERNET BANKING ENVIRONMENT 4 (Oct. 12, 2005), *available at* http://www.ffiec.gov/ffiecinfobase/resources/info\_sec/2006/occ-bul\_2005-

<sup>35.</sup>pdf ("[C] ustomer identity verification during account origination . . . is important to reducing the risk of identity theft, fraudulent account applications, and unenforceable account agreements or transactions.").

<sup>66.</sup> See supra Part II.B.

<sup>67.</sup> Second Life, How Can I Use My US Dollar Balance?,

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in identifying its customers, they would have to turn to either the email address provided during registration or the Internet Protocol (IP) address associated with the account.<sup>68</sup> Yet, neither of these approaches provides any actionable intelligence if the user intends to keep his identity secret.<sup>69</sup> In contrast, EU maintains relatively strict customer identification procedures, and, to the extent that customer identities are accurately verified, fake accounts can be reduced.<sup>70</sup>

Virtual worlds are also limited in their ability to monitor individual financial transactions. Residents can buy, sell, and exchange currency in nearly unlimited amounts without any questions asked.<sup>71</sup> Presently, there is nothing to indicate that either EU or SL maintains records of individual financial transactions between residents. Moreover, once a resident seeks to move funds from the virtual world and back into the real world, there are limits on the ability to properly identify the recipient of those funds.

Although vulnerabilities exist, without a documented instance

68. See HARRY NEWTON, NEWTON'S TELECOM DICTIONARY 506 (24th ed. 2008) (defining "Internet Protocol Address" as "a unique, 32-bit number for a specific TCP/IP host on the Internet").

69. Methods used to conceal identity range from using fake e-mail and PayPal accounts to masking an IP address by moving from server to server. See, e.g., Benjamin R. Davis, Ending the Cyber Jihad: Combating Terrorist Exploitation of the Internet with the Rule of Law and Improved Tools for Cyber Governance, 15 COMMLAW CONSPECTUS 119, 129 (2006) ("Like any Internet user, a terrorist operative will find setting up a Website or e-mail account to be a very simple and inexpensive process. With minimal disclosure requirements (which are difficult, if not impossible, for providers to verify for accuracy), a cyber jihadist can set up any number of free e-mail accounts within a matter of minutes."); Kohlmann, supra note 63 ("[E]nd users often use Internet proxy servers to obscure their location. These days, they also layer their communications internally to provide an additional cover.").

70.EntropiaUniverse:AccountFAQ,http://www.entropiauniverse.com/en/rich/5405.html(last visited Apr. 3, 2009)(explaining the registration process necessary to conduct financial transactions).

71. Certain limits apply depending on the type of account and how long it has been open. *See, e.g.*, LindeX Exchange: Billing and Trading Limits, http://secondlife.com/currency/describe-limits.php (last visited Apr. 3, 2009) (explaining that for residents, during the first thirty days, limits gradually rise from \$10 to \$300, and after thirty days, limits can reach between \$2500 and \$10,000; for business owners, the limits range from \$5000 to \$320,000 monthly).

https://support.secondlife.com/ics/support/default.asp?deptID=4417 (last visited Apr. 3, 2009) (follow "Linden Dollars" hyperlink; then follow "General L\$ Information" hyperlink; then follow "How can I use my US dollar balance?") (to make withdrawals, users must "have accurate and complete registration information, including verifiable billing information"). There does not appear to be any verification of individual customer identity.

of virtual terrorist financing, the methodology remains largely academic. However, as with the spread of other IVTS, an absence of evidence is not evidence of absence. By combining the recognized vulnerabilities of virtual worlds with the known traits of terrorist financing, it is possible to illustrate a hypothetical terrorist financing scheme in a developing virtual world (VW).

Over the course of two weeks, suppose that sixteen individuals in five different U.S. cities register to join VW from local coffee shops.<sup>72</sup> After downloading the required programming, these users are prompted to register.<sup>73</sup> Although all are men from countries in the Middle East, southeast Asia, and northern Africa, they supply nondescript, anglicized names and about half self-identify as female.<sup>74</sup> To fulfill the requisite identity confirmation, they then provide the free, web-based e-mail address they each created the day before at another coffee shop.<sup>75</sup> After confirming their new virtual accounts, all of the men shut down their e-mail accounts and allow their VW accounts to remain dormant for the rest of the two-week period.

With their accounts set up and avatars selected, these fifteen individuals begin blending into VW. They attend social functions and meet other avatars, and, looking to capitalize on VW's virtual economy, five of them open in-world businesses.<sup>76</sup> One avatar acts

76. The ease of opening in-world businesses, combined with the increased

<sup>72.</sup> This hypothetical presents VW as a "worst case scenario" in terms of regulations within virtual worlds so as to highlight the potential for exploitation by terrorist financiers. While many of the vulnerabilities identified are based on existing problems in SL and EU, they are not meant to imply that such a scenario *could* occur in either of those worlds, but, rather, illustrate the potential for abuse in future virtual worlds. *See generally supra* Part II (discussing characteristics of terrorist financing schemes and the vulnerabilities of virtual worlds).

<sup>73.</sup> The VW registration process simulates methods used by SL and EU. However, in VW, there are *no* attempts to verify the actual identity of the users. *Cf.* supra notes 67-70 and accompanying text (discussing registration procedures in SL and EU).

<sup>74.</sup> Self-selection is just one way of preserving anonymity—a highly attractive quality of virtual worlds. See Robert O'Harrow, Jr., Spies' Battleground Turns Virtual, WASH. POST, Feb. 6, 2008, at D01 ("Intelligence officials who have examined these systems say they're convinced that the qualities that many computer users find so attractive about virtual worlds—including anonymity ...—have turned them into seedbeds for transnational threats."); Meta-Terror, supra note 18 (statement of Roderick Jones) ("Anonymity has been a key feature in gaming. Everyone is anonymous and everyone accepts that. ... Once you have that anonymity you open it to []being misused.").

<sup>75.</sup> By changing locations, the users effectively mask their IP addresses. See supra note 69 and accompanying text (discussing methods to mask identity while in-world).

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as a virtual real estate broker; one sells virtual lingerie; one runs a virtual coffee shop; and the other two run stores that transfer realworld books and paintings, respectively. To handle the anticipated demand for the virtual and real-world products their avatars are selling, each of these businesses hires two staff members who applied by contacting them and providing a pre-approved word.<sup>77</sup> With their businesses established, the avatars go about their everyday, in-world business, selling their wares and earning VW dollars (VW\$).

Two months after setting up his account, and having given the others time to establish their new businesses, the last remaining avatar begins customizing his own virtual life. Having spent the past eight weeks converting \$500 per week into VW\$ from a PayPal account, this avatar now has VW\$4000.<sup>78</sup> Over the next week, the avatar conducts the following transactions with the aforementioned businesses: he purchases a virtual island home for VW\$1000, of which the real estate broker takes a commission of 50%; he buys VW\$200 worth of lingerie for his virtual girlfriend; each day he purchases three cups of virtual coffee for VW\$5 per cup, for a total of VW\$75; and, with the remaining money, he purchases countless books and paintings, none of which are ever delivered despite the transfer of VW\$. Within nine weeks, the initial VW\$4000 is

spending limits for business owners, make these attractive "fronts" for illegal activity. *See, e.g.*, IGOR MUTTIK, MCAFFE, SECURING VIRTUAL WORLDS AGAINST REAL ATTACKS: THE CHALLENGES OF ONLINE GAME DEVELOPMENT 4 (Aug. 2008), *available at* 

http://www.mcafee.com/us/local\_content/white\_papers/threat\_center/wp\_onli ne\_gaming.pdf ("Virtual objects are traded in two connected markets—fully virtual and real. The intertwining of real and virtual markets is growing, and there are now real shops in virtual worlds (where you can buy real goods for virtual money). Both of these markets attract criminal elements.").

<sup>77.</sup> Like any other business, virtual businesses need employees. "Employment" is also a means to funnel "income" to numerous avatars in the form of "salary." See Second Life, Guide to Jobs in Second Life, http://secondlife.com/support/ (last visited Apr. 3, 2009) (follow "Knowledge Base" hyperlink; then follow "Second Life for Beginners" hyperlink; then follow "Guide to Jobs in Second Life hyperlink).

<sup>78.</sup> As discussed *supra* note 71, to the extent transaction limits exist, they would not catch these small transactions, especially if the account has been open for an extended period. *But see* Catherine Holahan, *Policing Online Money Laundering*, BUSINESSWEEK, Nov. 6, 2006, http://www.businessweek.com/technology/content/nov2006/tc20061106\_98694 9.htm?campaign\_id=bier\_tcv.g3a.rssf1106u (recommending "imposing limits on the amounts that can be held in online accounts, thus limiting the potential for large amounts to be laundered, and implementing 'suspicious activity' reporting practices").

transferred into the accounts of the other fifteen avatars. Each person then exchanges the VW\$ back into real-world currency through PayPal and pre-paid debit cards, and cancels his VW account.<sup>79</sup>

Back in the real world, the individuals gather in groups of three in each of the five cities. With their funds combined, each group has a little under \$1000. They immediately work toward implementing their "mission," purchasing the materials to create one improvised explosive device per person.<sup>80</sup> By the end of the week—less than three months after first signing onto VW—the fifteen men carry out fifteen suicide bombings in five major cities throughout the United States. Unable to identify or trace the source of the funds, or locate the sixteenth avatar that financed the attacks, law enforcement and intelligence officials are left with limited leads to investigate the bombings.

As this hypothetical demonstrates, the use of virtual worlds to finance terrorist attacks is more than merely academic.

# IV. REGULATING THE VIRTUAL HAWALA

"We will direct every resource at our command [to win the war against terrorism], every means of diplomacy, every tool of intelligence, every instrument of law enforcement, every financial influence...."<sup>81</sup>

"The environment in which terrorists raise, launder, and transfer funds to further their activities remains all too permissive...."<sup>82</sup> The complexity and variety of methods available to terrorist financiers, combined with the difficulties of identifying these otherwise innocuous financial transactions, requires broader regulation and enforcement.<sup>83</sup> In particular, the ability of terrorist

<sup>79.</sup> Through the use of fraudulent PayPal accounts or fake identification, this money may become effectively untraceable once it leaves the virtual world. See Holahan, supra note 78 ("Once flush with funds, the [online] accounts can be used to make purchases without leaving a paper trail to the user the way a credit card or check would.").

<sup>80.</sup> It costs very little to gather the materials and create an improvised explosive device. See LORETTA NAPOLEONI, MODERN JIHAD: TRACING THE DOLLARS BEHIND THE TERROR NETWORKS 178-79 (2003) (explaining that the cost of making a suicide bomb can be as low as \$5 while deployment of a suicide bomber, including transportation and reconnaissance, can cost between \$100 and \$200).

<sup>81.</sup> Presidential Address, supra note 11.

<sup>82.</sup> Matthew Levitt, Stemming the Flow of Terrorist Financing: Practical and Conceptual Challenges, 27 FLETCHER F. WORLD AFF. 59, 61 (2003).

<sup>83.</sup> See Lormel, supra note 39 ("Developing mechanisms to identify emerging

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financiers to move between the formal/real-world and informal/virtual-world financial sectors must be curtailed, and any policy aimed at doing so must be "all-encompassing... to have any chance of successfully disrupting terrorist activity."<sup>84</sup>

# A. Developing a Framework to Combat Terrorist Financing

Terrorist financing is a global problem that must be fought both domestically and internationally.<sup>85</sup> At the forefront in the global war on terrorist financing is the Financial Action Task Force (FATF), an international body dedicated to eradicating money laundering and terrorist financing.<sup>86</sup> The FATF has led the charge for greater regulation and accountability, offering a list of forty recommendations that should be implemented world-wide by both the formal and informal financial sectors.<sup>87</sup> Recommendations integral to developing successful programs to combat terrorist financing include:

- i. identifying all individuals and businesses engaged in financial transactions, both formal and informal;
- ii. obtaining accurate and verifiable information

trends should be incorporated into the risk analysis process.").

<sup>84.</sup> Levitt, supra note 82, at 61.

<sup>85.</sup> See Michael Jacobson, Grading U.S. Performance Against Terrorism Financing, POLICYWATCH/PEACEWATCH (The Washington Institute for Near East Policy, Washington, D.C.), Sept. 5, 2007, http://www.washingtoninstitute.org/templateC05.php?CID=2656 (explaining limitations to unilateral action by the United States and that successful antiterrorist policy requires broad international cooperation).

<sup>86.</sup> See generally Financial Action Task Force Home Page, http://www.fatf-gafi.org (last visited Apr. 3, 2009) (providing an overview of the organization and its programs).

<sup>87.</sup> Id. Among the recommendations the FATF suggests:

<sup>1)</sup> ratifying the 1999 UN Convention on the Suppression of Terrorist Financing;

<sup>2)</sup> criminalizing the financing of terrorism, terrorist acts, and terrorist organizations;

<sup>3)</sup> freezing and confiscating terrorists' assets;

<sup>4)</sup> requiring financial institutions to report suspicious transactions that may be linked with terrorism;

<sup>5)</sup> assisting in investigations with other countries of terrorist financing networks;

<sup>6)</sup> imposing anti-money laundering on alternative remittance systems; and

<sup>7)</sup> taking steps to ensure that non-profit organizations are not misused to finance terrorist groups.

Id. (follow "40 Recommendations" hyperlink under "Quick Links").

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through which customers can be identified; and iii. maintaining records of all financial transactions and reporting those identified as suspicious to the appropriate authorities.<sup>88</sup>

According to reviews by the FATF and the U.S. Department of the Treasury, the combined implementation of these programs has had marked success in reducing the abuse of formal financial institutions by terrorist financiers.

Domestically, many of the FATF's recommendations have been implemented through the Bank Secrecy Act of 1970 (BSA).<sup>90</sup> "The principal policy goal of the [BSA] is to protect the international gateways to the United States financial system and to safeguard our financial system from the abuses of financial crime, including terrorist financing, money laundering, and other illicit activity."<sup>31</sup> To that end, the BSA requires banks to establish and maintain effective anti-money laundering programs, implement customer identification programs, and maintain transactional records.<sup>92</sup>

Intended to have a broad reach, the BSA applies to both

90. Bank Secrecy Act of 1970, 12 U.S.C. §§ 1829(b), 1951-1959 (2006); 31 U.S.C. §§ 5311-5322 (2000 & Supp. V 2005). The BSA is a federal recordkeeping and reporting law applicable to all persons (individuals and organizations) defined as "financial institutions" under regulations implementing the BSA, found at 31 Code of Federal Regulations, Part 103. See 12 C.F.R. § 21.21(a) (2008).

91. William F. Baity, Acting Director, Financial Crimes Enforcement Network, Keynote Remarks at the Florida International Bankers Association Anti-Money Laundering Conference (Feb. 14, 2007) (transcript available at http://www.fincen.gov/news\_room/speech/html/20070214.html).

92. U.S. DEP'T OF TREASURY, 2007 NATIONAL MONEY LAUNDERING STRATEGY VI (2007),available at http://www.treas.gov/press/releases/docs/nmls.pdf [hereinafter MONEY LAUNDERING STRATEGY]; see also 12 U.S.C. § 1829b(a)(1) (2006) (congressional findings and purpose of rules relating to recordkeeping); 31 U.S.C. § 5311 (2000 & Supp. V 2005) (purpose of rules relating to records and reports on monetary instruments transactions); 31 U.S.C. § 5312(a) (2000 & Supp. V 2005) (definitions); 31 U.S.C. § 5318(h)(1) (2000 & Supp. V 2005) (requiring financial institutions to implement anti-money laundering programs); 31 C.F.R. § 103.22(b) (2008) (requiring covered financial institutions to report each deposit, withdrawal, exchange of currency, or other payment or transfer that involves a transaction in currency of more than \$10,000); 12 C.F.R. § 21.21(c) (2008) (describing minimal requirements for BSA promulgations at national banks).

<sup>88.</sup> Id. (primarily relying on Recommendations 5-11).

<sup>89.</sup> See Martin A. Weiss, Terrorist Financing: Current Efforts and Policy Issues for Congress, CRS REPORT FOR CONGRESS, RL32539, Aug. 20, 2004, at 2-5, available at http://www.usembassy.it/pdf/other/RL32539.pdf (tracing the evolution of counterterrorism financing legislation from the Bank Secrecy Act to current regulation under the PATRIOT Act).

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formal and informal financial service providers.<sup>93</sup> Formal service providers are generally referred to as "financial institutions" and, although construed relatively narrowly in 1970 when the BSA was passed, Congress has repeatedly expanded the meaning of "financial institution" to keep pace with the ingenuity of criminal organizations.<sup>94</sup> Despite the expansion covering formal financial institutions, the BSA historically ignored loopholes that prevented regulation of the vulnerable informal financial sector.<sup>95</sup>

Less than two months after the September 11 terrorist attacks, President Bush signed into law, as Title III of the USA PATRIOT Act,<sup>96</sup> the International Money Laundering Abatement and Anti-Terrorist Financing Act of 2001.<sup>97</sup> Recognizing the need "to ensure that all appropriate elements of the financial services industry are subject to appropriate requirements to report potential money laundering transactions to proper authorities,"<sup>98</sup> Congress sought to patch many of the holes through which terror financiers had slipped.<sup>99</sup> Title III expanded existing BSA regulations by ensuring that all individuals or entities that transfer money, no matter how formal or informal, must comply with all anti-money laundering and counter terrorist financing regulations.<sup>100</sup>

In its post-PATRIOT Act coverage, the BSA provides greater regulation of the informal banking system. Section 359 of the PATRIOT Act specifically addresses underground banking and

<sup>93.</sup> See 31 U.S.C. § 5312(a) (2000 & Supp. V 2005) (expansive coverage of businesses and individuals that engage in financial transactions).

<sup>94.</sup> See id. ("financial institution" includes banks and depository institutions, casinos and card clubs, broker-dealers, and investment companies). The regulations promulgated by the Department of the Treasury under the BSA are found at 31 C.F.R. § 103.22(b)(1) (2002).

<sup>95.</sup> See Gouvin, supra note 48, at 964 ("[W]hile coverage under the BSA was far-reaching, it was far from universal. Some financial intermediaries were subject to it, but others were not.").

<sup>96.</sup> Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001, Pub. L. No. 107-56, 115 Stat. 272 (codified as amended in scattered sections of 5, 8, 10, 12, 15, 18, 21, 22, 28, 31, 42, 47, 49, and 50 U.S.C.) [hereinafter PATRIOT Act].

<sup>97.</sup> Id. §§ 301-377.

<sup>98.</sup> *Id.* § 302(b)(11).

<sup>99.</sup> Weiss, *supra* note 89, at 6 ("Given that funds used to finance terrorist activities are often not derived from illegal activities, prosecution for funding terrorist activities under the pre-USA PATRIOT Act money laundering laws was difficult.").

<sup>100.</sup> Shawn Turner, U.S. Anti-Money Laundering Regulations: An Economic Approach to Cyberlaundering, 54 CASE W. RES. L. REV. 1389, 1404 (2004).

expands the definition of "financial institution" to cover IVTS.<sup>101</sup> The BSA and subsequent Treasury Department regulations describe these non-bank entities as "money transmitters" or "money services businesses" (MSB).<sup>102</sup> Despite the expanded coverage, it is unclear whether virtual worlds qualify as MSBs, and thus are subject to BSA regulations.

### B. Expanding Current Law to Cover Virtual Worlds

Virtual worlds remain vulnerable to abuse by terrorist financiers.<sup>103</sup> Additional measures must be taken to effectively curb the use of IVTS by terrorist organizations. Bringing virtual worlds under the umbrella of institutions covered by the BSA is the most effective method. Once virtual worlds, like all others who engage in the transfer of money, have a clear responsibility to ensure the sanctity of the markets, businesses working with regulators can begin crafting procedures for compliance with the BSA.

# 1. Declare Virtual Worlds to be an IVTS and Require Registration

Under the existing regulatory framework, every IVTS must register with the Treasury Department.<sup>104</sup> The first step in reducing the potential for abuse of virtual economies is to extend the scope of coverage to include virtual worlds. Although not traditional "financial institutions," virtual worlds can reasonably fit within the broad MSB category of covered financial systems.

The present interpretation of MSB encompasses "any person doing business, whether or not on a regular basis or as an organized business, which engages in the transfer of funds."<sup>105</sup> Virtual worlds like SL and EU not only engage in the transfer of funds by allowing residents to exchange real-world currency with

<sup>101.</sup> PATRIOT Act, *supra* note 96, § 359 (expanding coverage of the BSA by broadening the definition of "Money Transmitting Businesses").

<sup>102.</sup> Posting of Dennis Lormel to Counterterrorism Blog, Two Easily Exploitable Vulnerabilities of Money Services Businesses, http://counterterrorismblog.org/2008/05/two\_easily\_exploitable\_vulnera.php (May 21, 2008, 15:41 EST) ("MSBs refer to five distinct types of financial services providers: currency exchangers; check cashers; issuers, sellers, or redeemers of traveler's checks, money orders or stored value; the United States Postal Service; and money transmitters.").

<sup>103.</sup> See supra Part II.C (discussing the vulnerabilities of virtual worlds).

<sup>104.</sup> See 31 U.S.C. § 5330 (2000); 31 C.F.R. § 103.41 (2008) (all IVTS must register with FinCEN as MSBs).

<sup>105. 31</sup> C.F.R. § 103.11(uu)(5) (2008) (defining "Money Transmitters").

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virtual currency, they have built systems in which a virtual economy is an integral part of their business. Neither new laws nor amended regulations are necessary to apply existing BSA regulations to virtual worlds. Rather, the Department of the Treasury merely has to issue an administrative ruling designating virtual worlds as covered institutions since a plain reading of current regulations arguably covers virtual worlds as IVTS. Once existing BSA regulations are expanded to cover virtual worlds, law enforcement and intelligence officials can begin cracking down on one of the last remaining unregulated methods for transferring terrorist funds.

# 2. Implement Know-Your-Customer Procedures

Once virtual worlds are placed on notice that they are subject to BSA regulations, they must implement comprehensive antimoney laundering and terrorist financing programs.<sup>106</sup> Such compliance programs are required of brick-and-mortar financial institutions and, while admittedly more complicated, expanding them to virtual worlds will reduce criminal abuse of these systems.<sup>107</sup> Recognizing the critical role that both formal and informal financial systems play in the effort to find terrorists, a key compliance mechanism is that all covered institutions "know their customer."<sup>108</sup>

Under existing regulations, covered institutions must:

i. identify customers as they open accounts by obtaining information such as the customer's name, address, date of birth, and taxpayer

<sup>106.</sup> See U.S. DEP'T OF TREASURY, FIN. CRIMES ENFORCEMENT NETWORK, MONEY SERVICES BUSINESSES REGISTRATION FACT SHEET n.1, available at http://www.msb.gov/pdf/FinCENfactsheet.pdf (last visited Apr. 3, 2009).

<sup>107.</sup> Despite initial skepticism and opposition to the PATRIOT Act provisions, increased regulation has been effective in curbing the abuse of formal financial institutions. See Joseph M. Myers, The Silent Struggle Against Terrorist Financing, 6 GEO. J. INT'L AFF. 33, 35 (2005).

<sup>108.</sup> MONOGRAPH, supra note 4, at 61. "To fulfill this role properly in the lifeand-death emergencies that can arise, financial institutions must (1) know their customers by their real names and possess other essential identifying information, (2) have the ability to access this information in a timely fashion, and (3) quickly provide this information to the government in a format in which it can be effectively used." *Id.* Law enforcement will not be able to develop a comprehensive strategy for countering terrorist financing until individuals can be openly identified.

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identification number;

- ii. exercise reasonable efforts to verify the customer's identity;
- iii. maintain records and information obtained during the identification and verification process; and
- iv. consult lists of individuals whose assets have been blocked or frozen.<sup>109</sup>

Like their brick-and-mortar counterparts, virtual worlds must ensure that every avatar with virtual currency can be linked back to a verifiable name, address, and real-world bank account.<sup>110</sup> Absent this basic know-your-customer requirement, anti-terrorist financing efforts will not be effective.<sup>111</sup>

These customer identification and verification procedures, while potentially costly and time-consuming, are a necessary expense for virtual worlds looking to profit from the spread of their economies.<sup>112</sup> Although this is a developing area of regulation, traditional banks implemented similar programs when shifting to online banking.<sup>113</sup> Any effective program must ensure proper

112. Many of the same arguments likely made by virtual worlds have already been proffered by formal financial institutions and rejected by regulators. See, e.g., Joseph J. Norton & Heba Shams, Money Laundering Law and Terrorist Financing: Post September 11 Response—Let Us Step Back and Take a Deep Breath?, 36 INT'L LAW 103, 121 (2002) (arguing that Title III of the PATRIOT Act might impose an onerous burden on banks).

<sup>109.</sup> See Press Release, U.S. Dep't of Treasury, Treasury and Federal Financial Regulators Issue Final PATRIOT Act Regulations on Customer Identification (Apr. 30, 2003), available at http://www.treas.gov/press/releases/js335.htm.

<sup>110.</sup> Todd M. Hinnen, The Cyber-Front in the War on Terrorism: Curbing Terrorist Use of the Internet, 5 COLUM. SCI. & TECH. L. REV. 5, ¶ 66 (2004) ("For traditional brick-and-mortar banking, this process often involves meeting the customer, obtaining identifying documents that have photographs or list physical characteristics that match the customer's characteristics, and observing the customer's behavior. In an Internet banking context, none of these traditional techniques is possible.").

<sup>111.</sup> MONOGRAPH, *supra* note 4, at 61 (Section 326 of the PATRIOT Act, which "requires financial institutions to 'enhance the financial footprint' of their customers by ensuring effective measures for verifying their identity," recognizes that "effective customer identification may deter the use of financial institutions by terrorist financiers and money launderers and also assist in leaving an audit trail that law enforcement can use to identify and track terrorist suspects when they conduct financial transactions").

<sup>113.</sup> See generally FED. FIN. INST. EXAMINATION COUNCIL, AUTHENTICATION IN AN INTERNET BANKING ENVIRONMENT (Oct. 12, 2005), www.ffiec.gov/pdf/authentication\_guidance.pdf [hereinafter AUTHENTICATION] (discussing the rise in online banking and the application of the BSA

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identification not only during the registration process, but also during each individual transaction.<sup>114</sup> One immediate solution for companies and clients who want to reduce the amount of personal information needed is to offer two different accounts—one permitting residents to engage in financial transactions and one that does not. Thus, those interested in pursuing their virtual fortune will be required to enter additional information during the registration process.

As with origination of bank accounts online, verifying virtual users' identities is difficult.<sup>115</sup> Online banking services now verify personal information through the use of: (i) "[p]ositive verification[,] to ensure that material information provided by an applicant matches information available from trusted third party sources"; (ii) "[1]ogical verification[,] to ensure that information provided is logically consistent (e.g., do the telephone area code, ZIP code, and street address match)"; and (iii) "[n]egative verification[,] to ensure that information provided has not previously been associated with fraudulent activity."<sup>116</sup> Building upon these techniques, virtual worlds should collect as much personal information as practicable and cross-check that information against public records to verify its accuracy.<sup>117</sup>

# V. CONCLUSION

"It is time to take a fresh look at anti-terrorist financing and anti-money laundering regulations as we enter the next administration and next Congress and see what has worked, and what hasn't, how methods have changed and how to change the [PATRIOT] Act, the Bank Secrecy Act and other regulations to go along with that."<sup>118</sup> As terrorist financiers shift to unregulated

117. Id. at 13-14.

requirements to such new technology); see also Ivan Schneider, Banks Crack Down on Terror Funds, BANK SYS. & TECH., Apr. 8, 2002, http://www.banktech.com/story/whatsnews/BNK20020408S0002 (noting "in the ongoing war on terrorism, banks and their technology providers can best serve the government by acting as a tripwire for criminals attempting to infiltrate the world financial system").

<sup>114.</sup> AUTHENTICATION, *supra* note 113, at 1.

<sup>115.</sup> Id. at 4-5.

<sup>116.</sup> Id. at 13.

<sup>118.</sup> Posting of Andrew Cochran to Counterterrorism Blog, Assessment of International Counter-Financing of Terrorism Efforts Needed for Next Administration  $\mathcal{E}$  Congress,

http://counterterrorismblog.org/2008/05/assessment\_of\_international\_co.php

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financial sectors, law enforcement officials and the tools they use must likewise evolve.<sup>119</sup>

Efforts to disrupt terrorists' ability to fund their operations will not succeed if focused solely on formal banking or the mainstream financial sector.<sup>120</sup> Instead, U.S. government officials must implement a comprehensive counterterrorist financing policy that continues to effectively curtail abuse of the formal financial sector while implementing broader regulations to address developing underground banking systems.

With the increasing virtualization of terrorism and the developing of virtual world economies, law enforcement officials must carefully consider the opportunity virtual worlds present as potential informal value transfer systems. Once the vulnerabilities of these platforms are identified, appropriate patches can be devised to close the loopholes. The quickest way to move towards effective regulation is for the Department of the Treasury to immediately designate virtual worlds as covered institutions subject to the BSA's anti-terrorist financing regulations. Next, the most important step will be verifying user identity during registration and ensuring that each virtual transaction can be traced back to identifiable senders and recipients.

None of these proposals will be easy to implement and, unfortunately, no amount of regulation will completely cut off the financing of terrorist operations. However, to stand idly by and allow the Internet to remain the last place where criminals and terrorist groups can anonymously do as they please is unacceptable.

<sup>(</sup>May 7, 2008, 10:09 EST).

<sup>119.</sup> Id.

<sup>120.</sup> See MONEY LAUNDERING STRATEGY, supra note 92, at 3 (explaining other ways of tracking terrorist financing).

# PART IV: PROFESSIONAL ARTICLES

The following section contains professional articles. The first argues that national security advice and advocacy should expressly consider institutional culture's impact. The second discusses the dichotomy that is often debated when there is a threat to national security and suggests that such a dichotomy is false. The third, among other things, proposes ways that our Nation's national security can best be protected. \*\*\*