



An Introduction to Cyber Crime and Terrorism: *Problems and the Challenges*

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(IMPACT)

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INTERNATIONAL MULTILATERAL PARTNERSHIP AGAINST CYBER-TERRORISM

What is a cyber crime?

Cyber terrorism?

Cyber threat?

Why Care?

Traditional Crime Has Long Ago Moved Online

- Money laundering
- Child pornography/Sexual Exploitation of Children
- Sale and trafficking of illegal drugs
- Prostitution
- Internet fraud/Credit Card Fraud
- Illegal gambling
- Hate propaganda/racism crimes
- Intellectual Property Theft/Piracy
- Harassment/Stalking
- Threats/Extortion
- Identity Theft
- And many, many more...

New Forms of Criminality (thanks to computers/cyberspace)

Crimes directed against a computer or a computer network itself

- Unauthorized use of computer system
- Hacking
- Denial of service attacks (DDOS)
- Virus/Malware transmission
- Phishing
- Botnet “Armies” and attacks
- Terrorist Use of the Internet
- Crime in Virtual Worlds

Critical Infrastructure Threats

- ◎ Beyond the economic consequences, society relies on computerized system for almost everything in life
 - Air, train and bus traffic control
 - Medical service coordination
 - Banking, Energy,
 - Government and national security
- ◎ When countries depend on computer-based systems and globally interconnected networks for their critical infrastructure,
 - it exposes us to new threats.
- ◎ Not theoretical—Australia, Estonia, Massachusetts

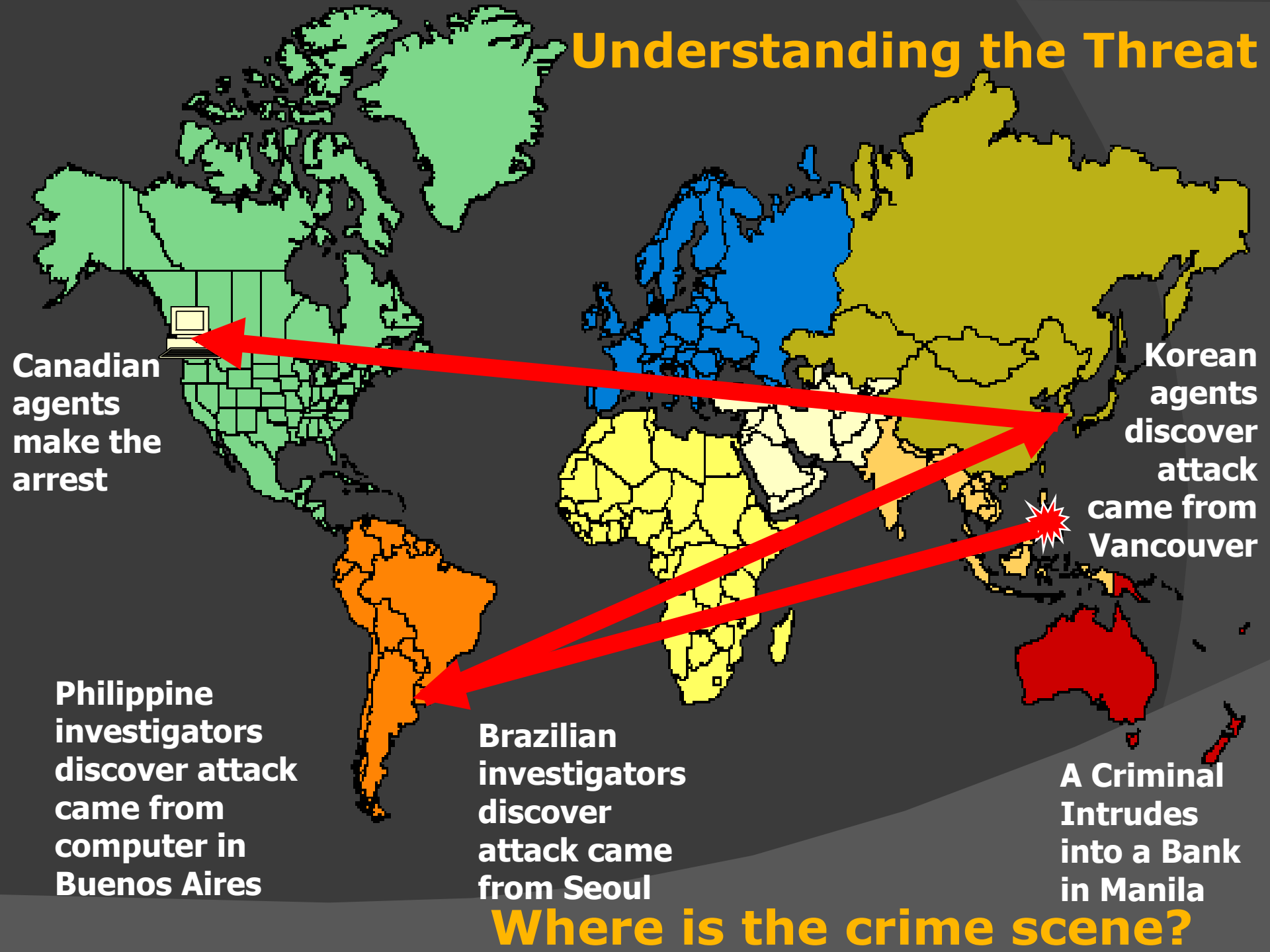
Terrorist Use of the Internet

--thousands of sites

- ⦿ Publication of terrorist ideologies and ideas (propaganda).
- ⦿ Raising funds/terrorist financing (money transfer/e-cash)
- ⦿ Recruiting new members (finding each other)
- ⦿ Launching threat or intimidation campaigns (beheadings)
- ⦿ Communication among members-P2P, SMS, VOIP (encryption)
- ⦿ Obtaining operational information (targeting; JFK Airport)
- ⦿ Coordinating, planning and discussing terrorist
- ⦿ Logistics (ordering supplies, car/apt. rentals, explosive, chemical/biological components)



Understanding the Threat



Canadian agents make the arrest

Korean agents discover attack came from Vancouver

Philippine investigators discover attack came from computer in Buenos Aires

Brazilian investigators discover attack came from Seoul

A Criminal Intrudes into a Bank in Manila

Where is the crime scene?

Challenges of Computer Crime Investigation

- ⦿ Irrelevance of geographic distance (no borders)
- ⦿ Investigative Costs, Resources, Equipment, Training
- ⦿ “Real Time” Investigations
- ⦿ Anonymity
- ⦿ Jurisdiction
- ⦿ Legal Issues
- ⦿ Technology is evolving rapidly

Legal Issues

- ⦿ Substantive legal problems
- ⦿ Procedural legal problems
- ⦿ Highly complex search and seizure laws.
- ⦿ Mutual Legal Assistance Treaties, letters rogatoires, dual criminality, conflict of law, extradition, etc.
- ⦿ Police and prosecutors must work together



ABOUT IMPACT

A **Not For Profit** organisation, IMPACT is a **politically agnostic** platform to foster **collaborative partnerships across Governments, private sector, and the academia**. Works closely with **multi-lateral organisations, such as the UN/ITU**. An agreement to house and implement Global Cyber Security Agenda.

Inspired by the Center for Disease Control & Prevention ('CDC') in Atlanta, IMPACT acts as the platform that **enables all member countries to benefit from, and contribute to, global resources** in the interest of their **national cybersecurity**.

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In conclusion...

- ⦿ With over 200 countries connected to the Internet, cybercrime has become a global issue that requires the full participation and cooperation of the public and private sectors in all countries, including the 150 plus developing countries around the globe
- ⦿ Avoiding “Cyber Havens” (like money laundering havens)
- ⦿ We will sink or swim together: coordination and cooperation are key
- ⦿ Thanks you!