

INVESTIGATING INFORMATION-BASED CRIMES

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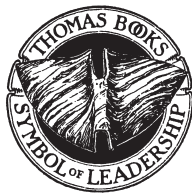
**A Guide for Investigators on Crimes Against
Persons Related to the Theft or Manipulation of
Information Assets**

By

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PREFACE

“Take us the foxes, the little foxes that spoil the vines, for our vines have tender grapes.” This imagery from the *Song of Solomon* translates into describing the information-based offenses that plague today’s “vineyard of information.” Information-based crimes against persons involve the theft, compromise, misuse, or manipulation of personal data or knowledge assets. These assets, which can be physical or electronic, compose every person’s vulnerable dimension of facts, ideas, and knowledge particular to an individual.

Assets such as financial documents and transactions, e-mails, diaries, calendars, spreadsheets, and other personal information, such as medical records, become the target of twenty-first century “foxes.” Persons victimized face the theft or exploitation of these assets by elements ranging from organized crime to freelance criminals to personal enemies. And, critical information may not be limited to data strictly within the care, custody, and control of the victim. Data available on the Web, whether in public records or on social networking sites, becomes the grist, through calculated misuse, for information-based crimes. Digitized audio and video, ever growing in our expanding surveillance culture, is another area for exploitation.

Personal information-based crimes are of two categories: those against individuals and those against an individual’s assets directly. The crimes against individuals encompass disinformation (discrediting a person falsely) and misusing digitized surveillance (whether audio or video) to either commit a crime or to engage in a disinformation campaign. Crimes against information assets include identity theft (stealing PII, personally identifiable information), the theft of electronic files and/or physical records, social engineering (stealing assets through pretext), and using publicly available information online to facilitate other crimes.

Investigators will learn from the text how to evaluate the victimology in a case. How did the victim’s information fall prey to attack? Why was this victim chosen? In each type of attack, the book makes suggestions for completing a vulnerability analysis on the victim’s assets to determine the methods used in the suspect’s attack. Once an M.O. (method of operation) be-

comes established for an UNSUB (unknown suspect), the text presents ideas on narrowing the universe of suspects and in linking them to the offense. The book also offers investigative checklists for probing into information-based crimes against persons. In addition, the narrative strives to take a psychological methodology in investigating these cases. By reading this book, private investigators and law enforcement will be armed with strategies for dealing with today's "foxes" that threaten our interconnected, global information community.

R.L.M.

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INVESTIGATING INFORMATION-BASED CRIMES

INTRODUCTION

Few would question that we live in an Information Age. What we know and how we store what we know securely become the fundamental issues for our times. In the not too distant past, cash or commodities like gold, silver, and other precious metals were the sole targets of thieves. As society evolved in financial sophistication, stealing and counterfeiting checks and credit cards emerged as a strong vector for crime. Then, the information contained in checks, on credit cards, in bank account access codes and numbers became a valuable commodity for thieves. The current stage of evolution in criminal activity involves trafficking in stolen personally identifiable information (PII) about individuals, which includes educational, financial, medical, and vocational data. Identity theft and the stealing of financial assets are among the results of such trafficking. This book's theme is about investigating these twenty-first century information-based crimes.

NATURE OF INFORMATION-BASED CRIMES

These information-based crimes fall into two major categories: exploiting information about people and the theft or compromise of information assets. Exploiting information available online concerning individuals usually involves disinformation and/or the misuse of electronic surveillance. Crimes against individuals' information assets cover identity theft, social engineering, the theft of personal information storage areas or repositories, and the theft of physical information assets such as papers, manuscripts, or rare books. Our discussion of information-based crimes does not include scams per se, although in Chapter 9 on the "Psychological Dimensions," the text covers various inducements used by information to lure victims into surrendering personal-

ly identifiable information (PII). And, our discussion of charlatanism also receives coverage in Chapter 2 on “Social Engineering,” but the focus remains on separating people from their sensitive information not just their money.

The text does not engage directly about common-law crimes such as robbery, burglary, homicide, or sexual assault. However, an important undercurrent to remember is that information theft facilitates common-law crimes in some cases. The more an attacker knows about the victim the easier a violent crime becomes to commit. However, with the exception of the theft of physical information assets, the arena or the theater of information-based crimes resides via electronic media in cyberspace. The element of physical interaction, the basis of many common-law crimes, does not enter the picture, which makes many of these crimes insidious and challenging to investigate.

CRIMES AGAINST PEOPLE

Exploiting information about people constitutes the first major division in the text’s discussion. Warping or distorting the view the public has of an individual via the tools of the Internet involves disinformation. And, disinformation campaigns operate at the macro and the micro levels. The twisting of the truth about someone may originate from a widely visited website or from an online posting visited by the few. In addition to the poisonous brush strokes of disinformation, persons may also suffer from being monitored via cyberspace through unknown eyes. We live in an increasingly watchful society where our privacy and confidentiality evaporate faster than freshly applied rubbing alcohol. And electronic surveillance, like disinformation, may cling to use through malevolent actions: cyber stalking would be one, well-known example. Yet, when we go to the grocery store, use an ATM, cash a check, or simply walk down the street, the digital camera potentially has us in view. This gathering of images about us may serve legitimate ends, but clear room for abuse remains by those with regular access to these image streams or by those who gain unauthorized viewing. Those planning crimes against us or our assets can build a visual dossier concerning our daily routines, when and where we come and go, and how we are most vulnerable.

Disinformation

When someone deliberately plants information online to mislead or to deceive the public, or a specifically targeted audience, about an individual's reputation, personal life, or business that person creates disinformation. In some cases such calculated disseminating of lies becomes civil libel, an intentional attempt to harm or to ruin a person's standing. Allegations of sexual immorality, racism, abuse of others, a past criminal history, or irresponsible actions can all come into play in a disinformation campaign. The vast online apparatus of social networking sites offers many venues for propagating lies and distortions. And, no single posting needs to be "over the top." Aggregating information about individuals become fairly easy through search engines, and special aggregating sites focus on social networking. So, placing harmful information, perhaps low in intensity on a given site, gains cumulative momentum, when one aggregates the data from multiple locations and postings. And, of course, the more locations that point to something being true, the more it will be believed.

Disinformation also encompasses posting deceptions about one's business, profession, or trade. Allegations about inferior products or services, unethical business or professional practices, consumer complaints, or business problems all generate damaging impacts ranging from being a nuisance to causing grave consequences. Such deceptions are unfair practices used to malign competitors with the hope of reducing their market share. Protecting one's commercial or professional reputation online has become a serious matter.

Misuse of Electronic Surveillance

Whether we drive through a toll booth on a highway, shop in a retail store, pay a bill in person, gamble in a casino, or enter a government building, we come under electronic surveillance. In most cases this electronic record remains in benign hands and before trusted eyes. Yet, those with access to the digital record may abuse their authority. Catherine Price in "The Anonymity Experiment" (*Popular Science*, 2008) describes her attempt to live outside of the surveillance umbrella. In addition to the examples cited above, she discovered that smartphones enable GPS tracking of the user's location visible to real time on a map with the right software. Renting a car, buying a ticket