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Work Session II: Technology

Cybercrimes – The Perfect Crime and Local Governments Not Immune

by

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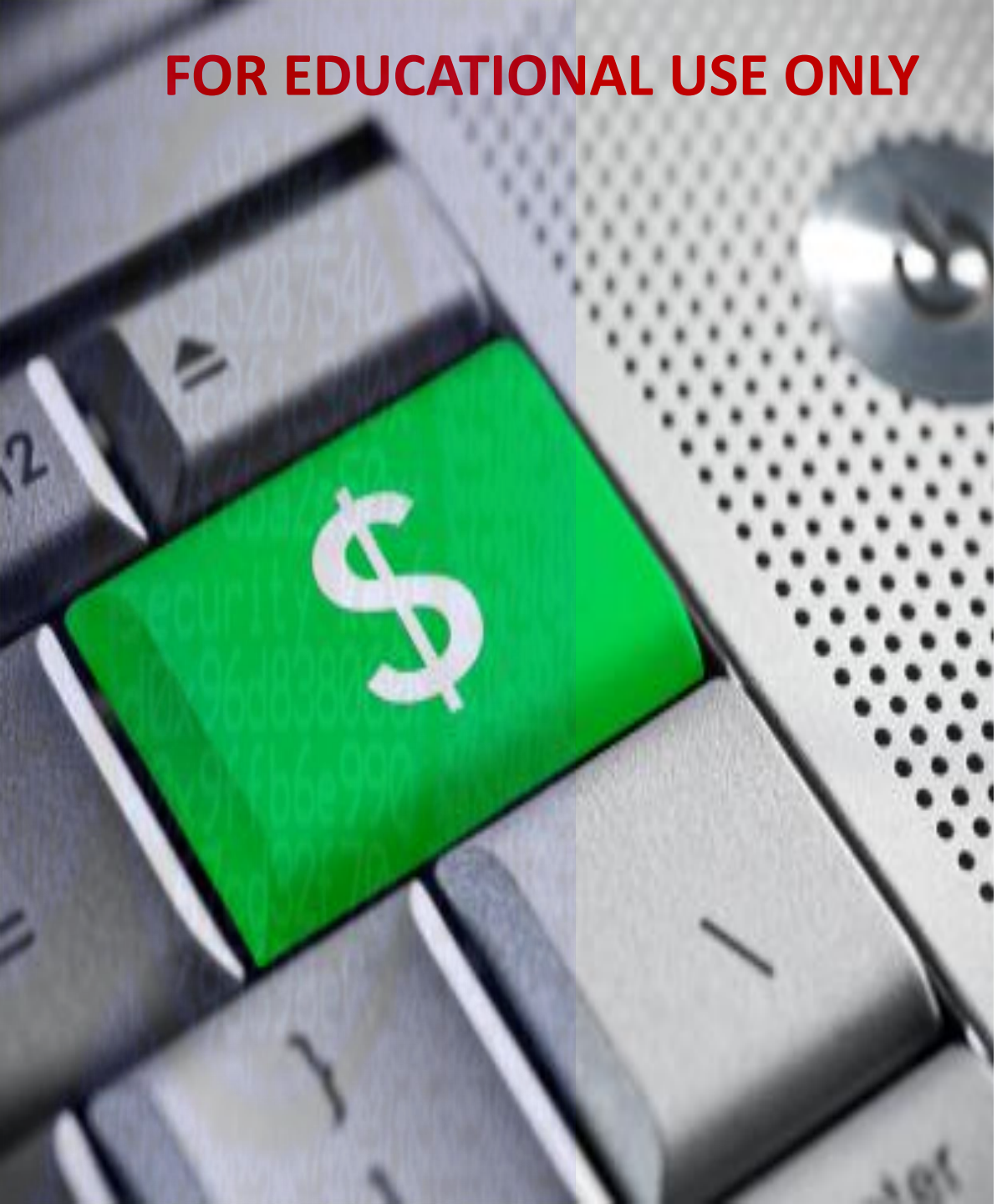

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CYBERCRIME : THE PERFECT CRIME

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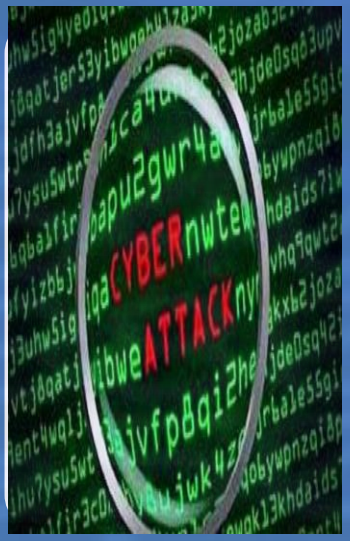
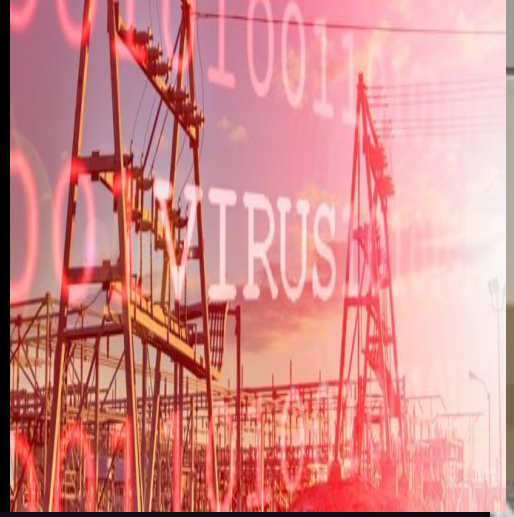


Cyberattacks



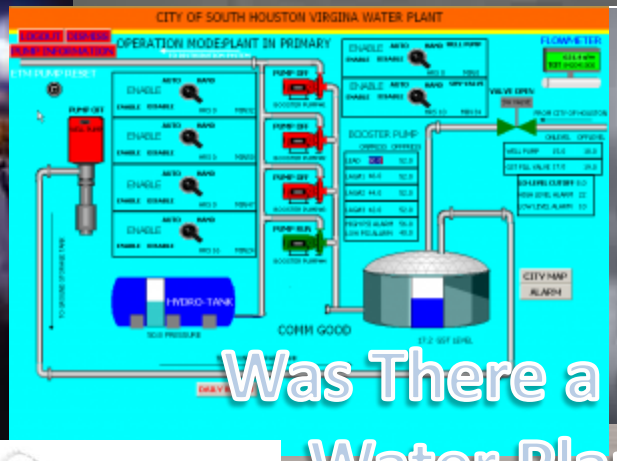
Data Breaches













Was There a Cyber Attack at Water Plant in Illinois?







Data Breach, Cybercrime Response

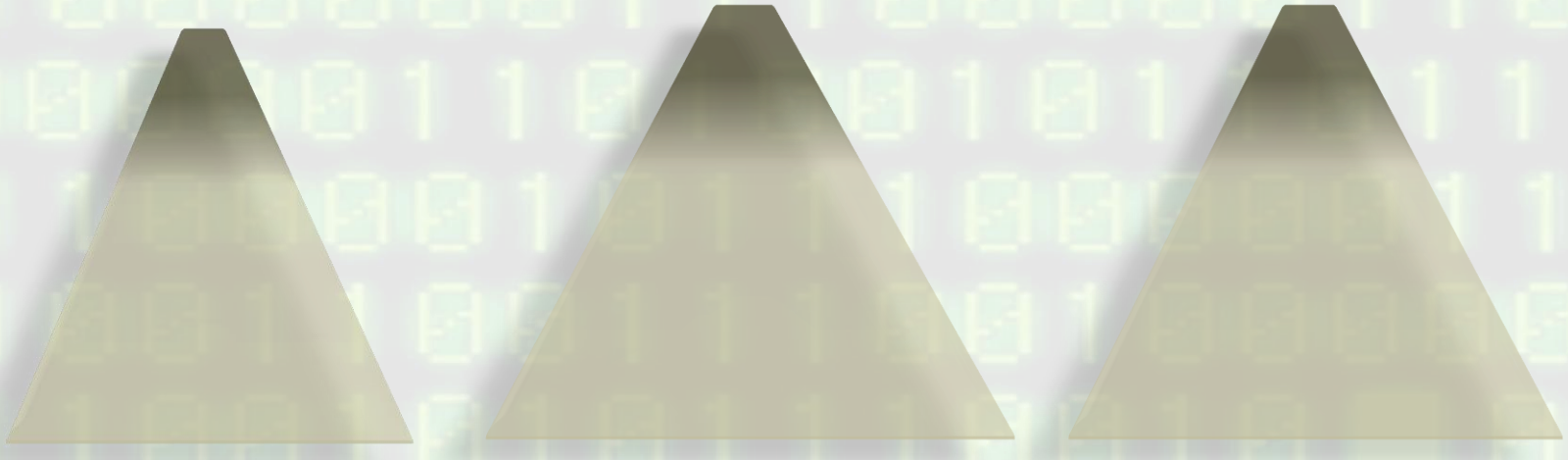
- State-sponsored and Industrial Espionage
- Theft of Intellectual Property
- Leaks of Confidential Information
- Lost Laptops, Servers, Backup Tapes
- Hacks, Unauthorized Access, Exceeding Authorized Access
- Cyber-extortion, Insider Trading
- Hacktivism (Anonymous)
- DOS

Unexpected Pathways

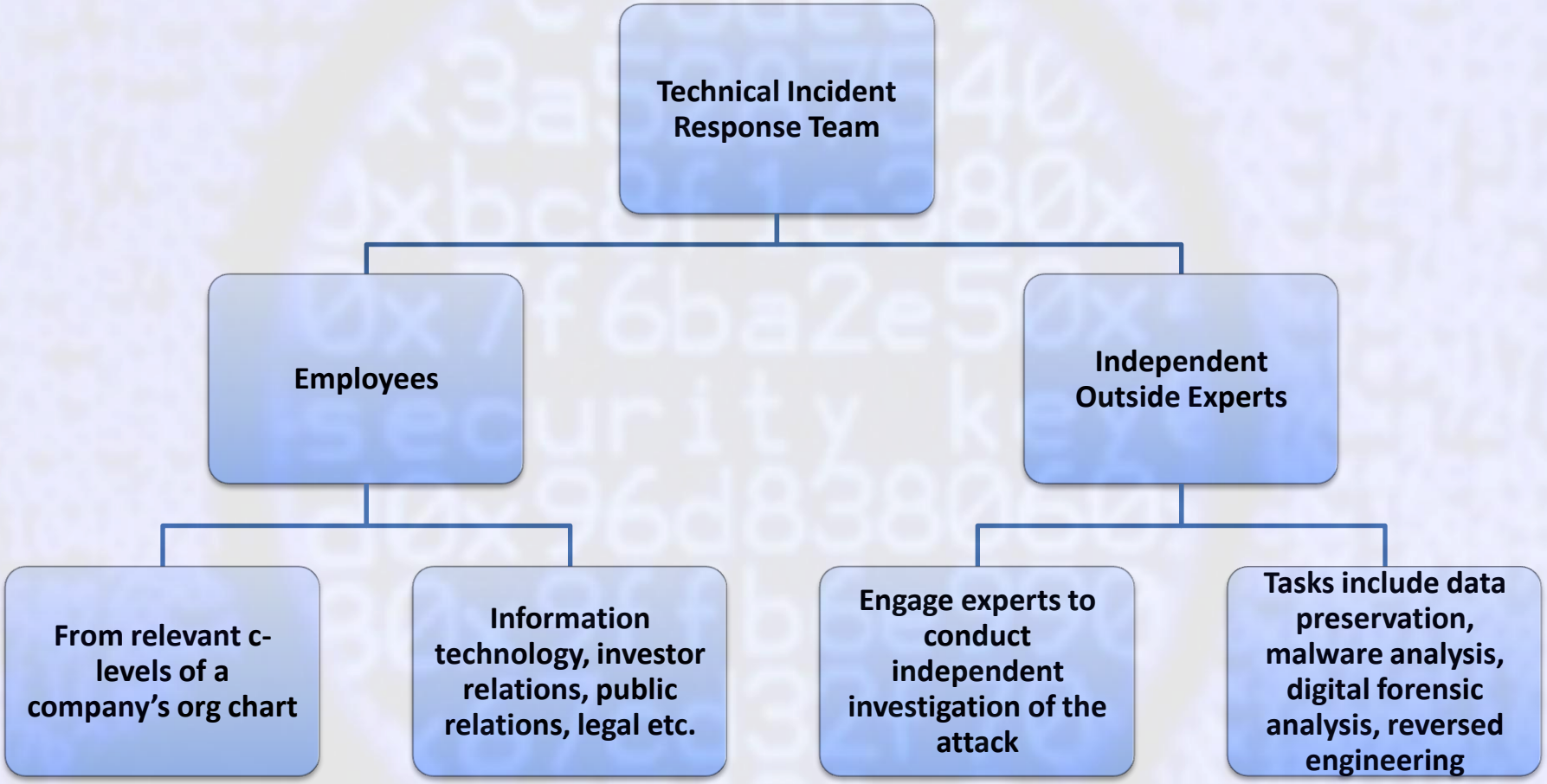
Law Firms

Public Relations Firms and Vendors

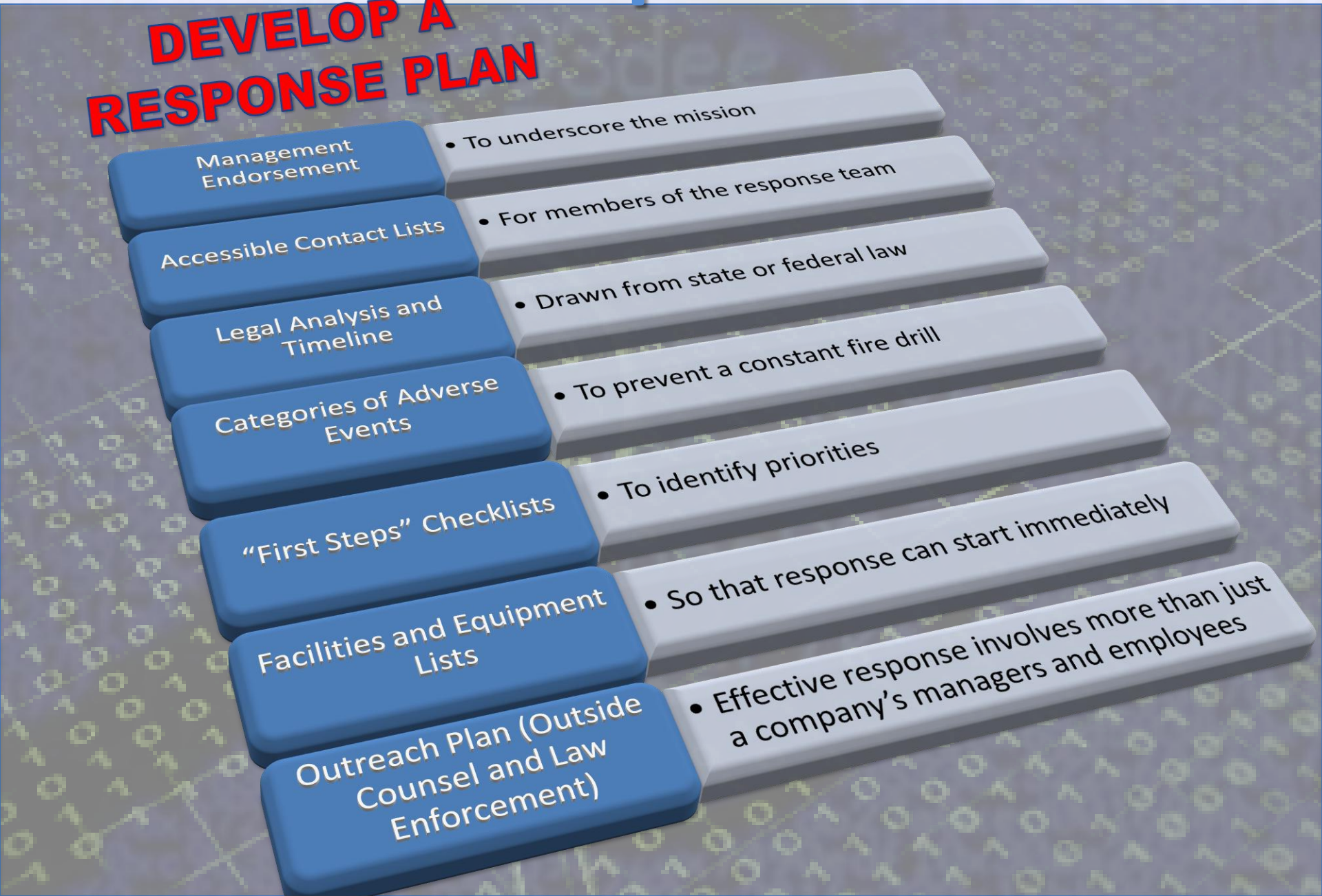
Other Related Parties



Response Team Formation



Prepare


DEVELOP A RESPONSE PLAN
Management Endorsement
• To underscore the mission
Accessible Contact Lists
• For members of the response team
Legal Analysis and Timeline
• Drawn from state or federal law
Categories of Adverse Events
• To prevent a constant fire drill
"First Steps" Checklists
• To identify priorities
Facilities and Equipment Lists
• So that response can start immediately
Outreach Plan (Outside Counsel and Law Enforcement)
• Effective response involves more than just a company's managers and employees

Preserve

- Assemble team, distribute list of responsibilities
- Unhook infected machines
- Call outside experts to forensically image
- Pull needed backups out of rotation and insert clean and patched machines
- Save off log files, keycard data and surveillance tapes
- Start real-time network packet capture
- Force administrator and user password change

Assess

Early Assessment:

- Type (if any) of lost or compromised data
- Time period of breach
- Initial volume estimate of data involved

Forensic Assessment:

- Analyze log files and hard drives
- Review memory/virtual memory
- Analyze and reverse engineer malware code
- Review live traffic captures
- Run behavioral profiling (Email Testing)

Law Enforcement Liaison









