Cybersecurity Challenges Facing Today's C-Suite: An Inside Look With the FBI

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Everything Old is New Again

- Started when people started
- People attack from the outside
- People steal from inside
- People deceive intentionally or accidently and they try to cover it up or

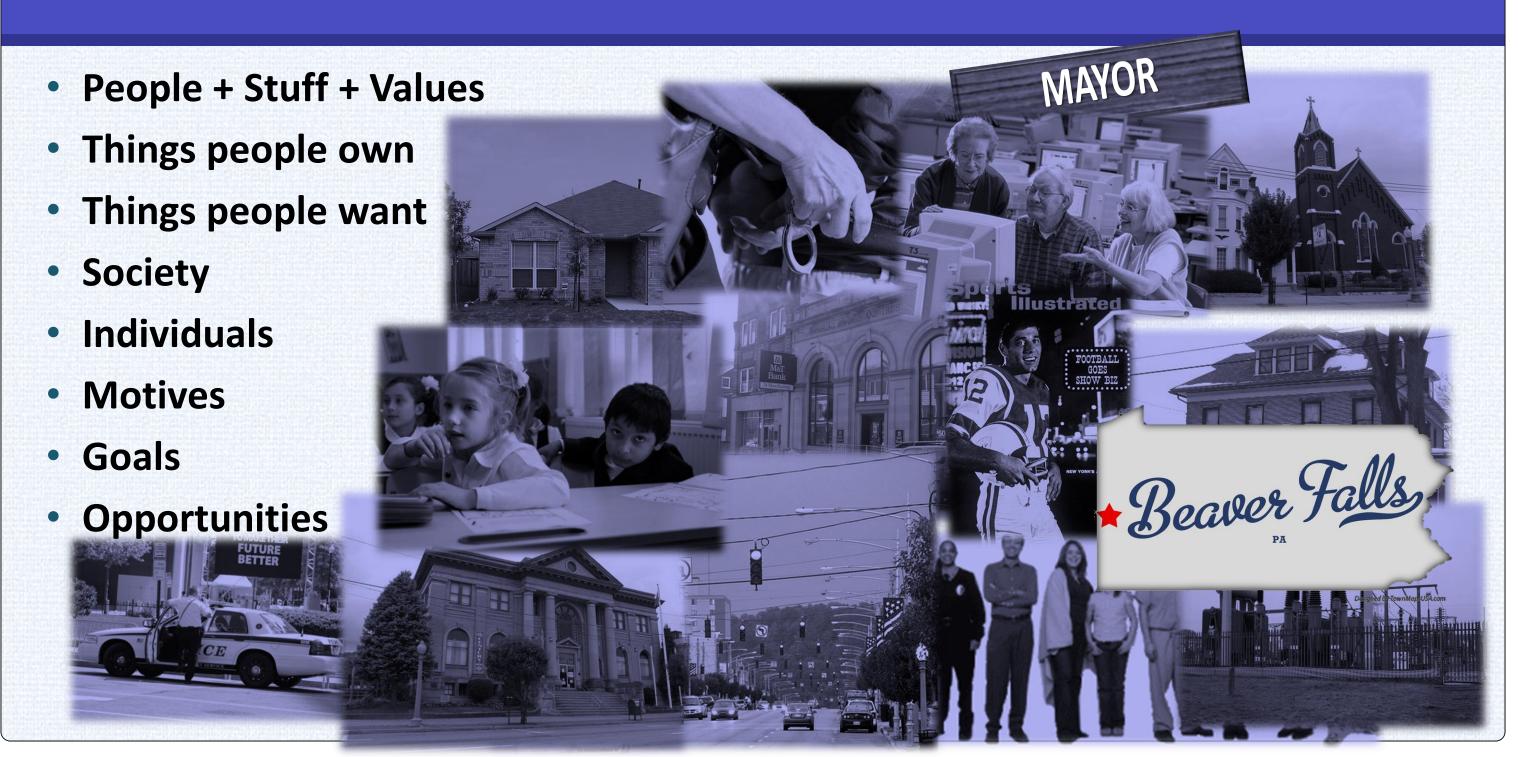
escape consequences

 It's easier to compromise from the inside – except you have to hide more.



People change; People's motivations change

The Landscape



When Toys Attack ...



What to Secure and How Much is a Business Decision

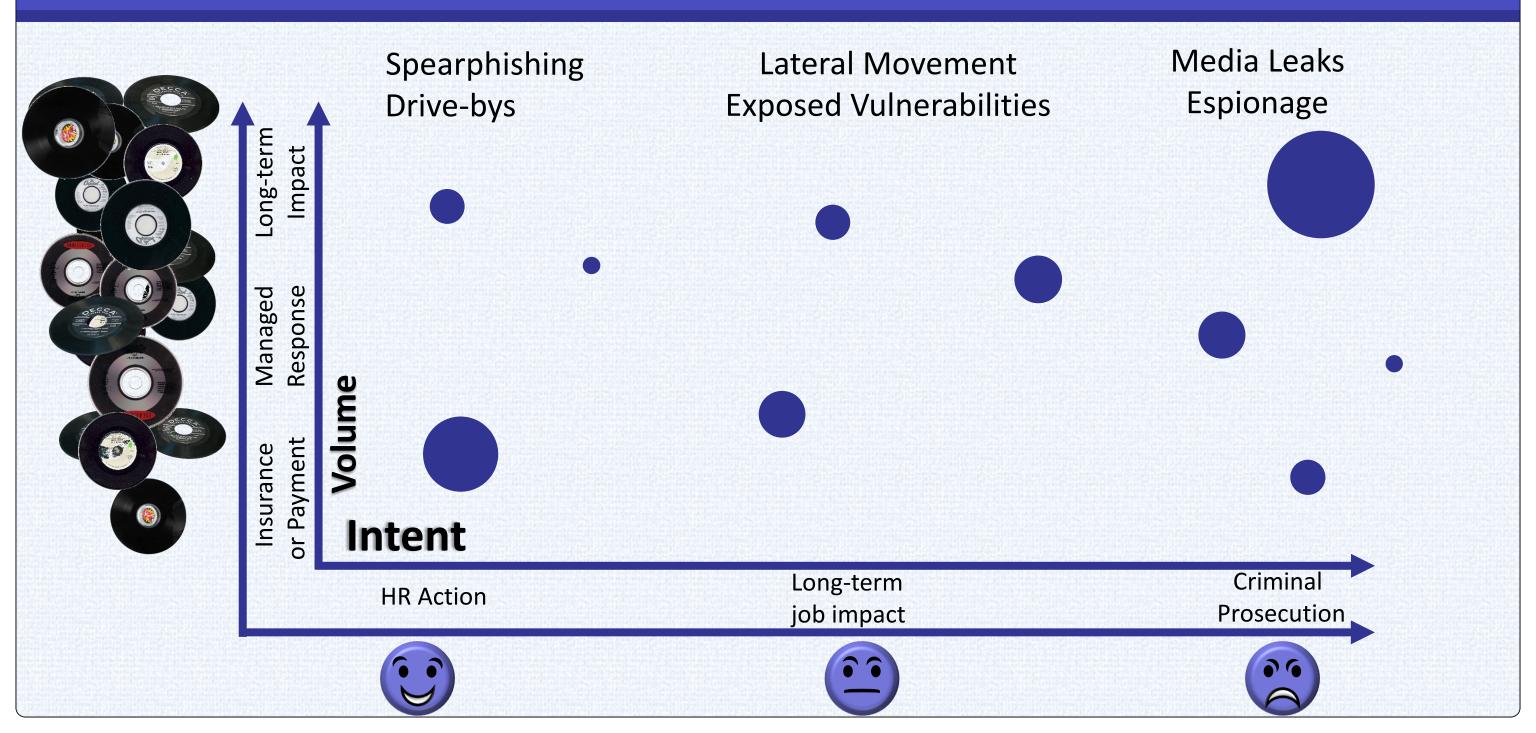
Cybersecurity is part of the risk picture.

What functions are core to business?

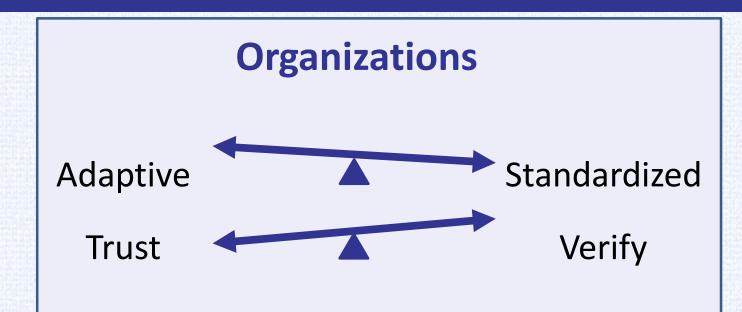
- How much security can an organization afford to accomplish those functions?
- What else can create business-ending impacts?
- Fraud, security, and margins all matter.

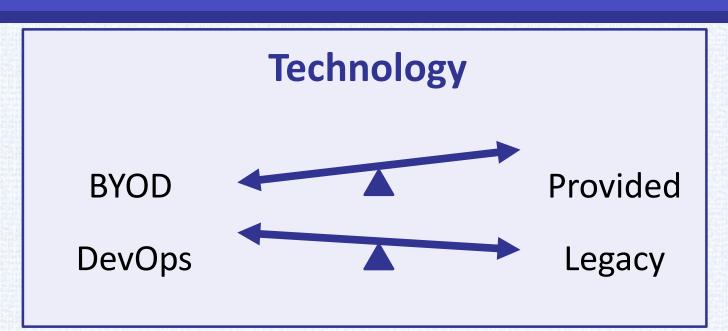


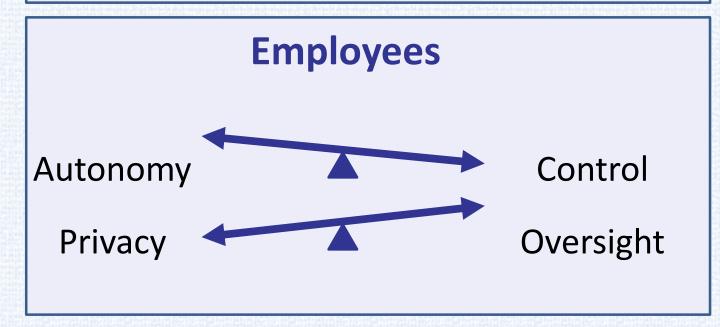
What's Acceptable Loss? What's Acceptable Behavior?



Balancing Priorities









What about the Internet of Things?

Ch Ch Ch Changes ...

D. Bowie

- It's Hard to Keep a Security Perspective With ...
 - New lines businesses
 - Different competitive landscape
 - Mergers and acquisitions
 - Technology innovations
 - Reorganizations
 - People leaving, coming, being promoted, being demoted ...

Changes leave people feeling vulnerable ... and that increases the insider threat.



The Costs and Opportunities Are Increasing

- Fraud enabled by IT
 - Traditional financial fraud by insiders and outsiders and combinations
 - Affects every type of organization
- Other Cybercrime
 - IP Theft
 - Sabotage
 - Approach is specifically logical, although it can use logical to attack physical
- As Businesses Move Online, the Threat Moves Online



FBI Fights Cybercrime Across the Board

The FBI engages State and Local Law Enforcement officials in the fight against cyber crime through a number of different initiatives including:

- National Cyber Investigative Joint Task Force
- Cyber Shield Alliance
- National Cyber-Forensics and Training Alliance







National Cyber Intelligence Joint Task Force (NCIJTF)



INFRAGARD



- Information sharing partnership between FBI and public/private sectors to protect the nation's critical infrastructures.
- Over 25,000 members and more than 80 InfraGard Chapters through the United States.
- Access through the Law Enforcement Enterprise Portal (LEEP).



Access to Suite of Intelligence Products



Networking Opportunities



Alerts to Threats and Vulnerabilities



Understand Emerging Trends

www.infragard.org

INTERNET CRIME COMPLAINT CENTER (IC3)



- Intelligence Center for Internet Enabled Crime
- IC3 was established in May 2000
- More than 269,000 complaints received in FY2014 for a reported loss of more than \$800M



Extortion



Romance Scams



Mass Marketing Fraud



Auto Fraud

www.ic3.gov

Incidents Will Happen ... Prepare and Practice!

- Internal and external, small and big
- Make the small ones routine and get used to the rhythm
- Prepare for the big ones before they happen



- Practice your Incident Response Plan, including:
 - Senior Executives Who needs to know what, and when?
 - General Council What can you disclose to who?
 - Communication What are you telling your executives, your staff, the press, the public?
 - Conquer the stove-pipes

Report suspected cyber crime – Get to know your local FBI agent

Useful Links

- Federal Bureau of Investigation
 - https://www.fbi.gov/investigate/cyber
 - https://www.infragard.org/Application/Account/Login
- National Counterintelligence and Security Center Resources
 - https://www.ncsc.gov/index.html
 - https://www.ncsc.gov/issues/docs/Insider Threat Brochure.pdf
- Carnegie Mellon's Software Engineering Institute
 - http://www.cert.org/index.cfm
 - http://www.cert.org/insider-threat/cert-insider-threat-center.cfm
- Other
 - https://www.nacdonline.org/cyber