Pairing Organizational Strategy with Security Solutions

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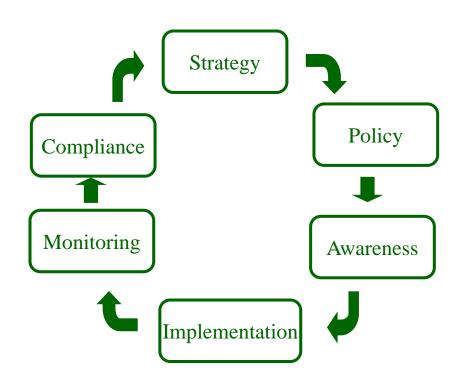
June 9, 2010 The Roosevelt Hotel **New York City**





Security Strategy

- Tone at the top
- Strategy
- Organization
- Process
- Risk
- Metrics







Tone at the Top

- Is reflected in decisions
- Is observed, not communicated
- Exists whether cultivated or not
- Cannot be created via documents





Tone-setting Activities

- Memos to staff
- Training Videos
- Awareness activities
- Program visibility
- Process integration
- Documentation availability



Security Program Strategy

Observe-Orient-Decide-Act

Original Military version

Plan-Do-Check-Correct

The ISACA COBIT version

Plan-Secure-Confirm-Remediate

A popular Software Vulnerability guide version

Prepare-Detect-Respond-Improve

Carnegie Mellon'sCERT version

Restrict-Run-Recover

A Big 4 consultant's version



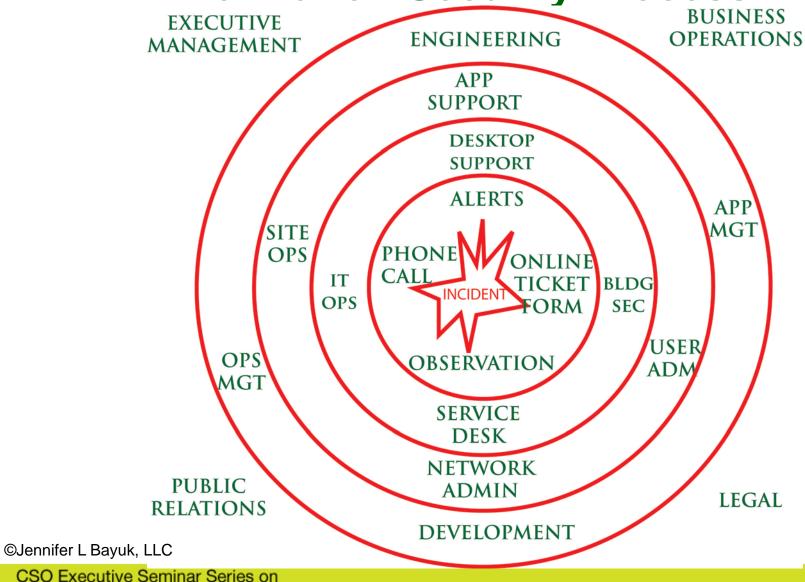


Tone → **Strategy**

- How involved is management in the program?
 - Policy?
 - Process?
 - Job function?



Information Security Process



on CSO



InfoSec Resources

- Executive Management Steering Committee
- Chief Risk Officer
- Chief Privacy Officer
- Information Security Manager
- Director of IT Operations
- IT Site Operations Manager
- IT Implementation Management
- IT Subject Matter Experts
- Application Architects
- IT Project Managers
- IT Product Owners
- Security Administrators
- Business Application Owner
- Business Data Owner
- Procurement Manager
- Compliance Manager
- Physical Security Organization







InfoSec Roles and Responsibilities

Given "realms" of business operation, resource identification involves not only specifying areas of responsibilities, but also making use of existing business and operational process.

Where a person performs this role:	An associated InfoSec process responsibility is:	A sample key performance indicator is:
Manages the lifecycle of IT applications and platforms	Security Review Participation	Security-policy-compliant systems configuration
	Security Requirements Capture .	Business requirements for confidentiality, integrity, and availability are documented
	Application Security Design	Technical implementation plans for meeting business process security requirements
	Change Control	Secure archive, retrieval, and compilation of organization-maintained source code and product customizations
	Security Upgrade Management	Testing and application of security software fixes
Procures IT services	Security Requirements Capture	Formal requirements for security in all Requests for Product Information and Proposals
	Contract Requirements	Business requirements for confidentiality, integrity, and availability in information service provider and technology maintenance contracts

CSO Executive Seminar Series on



A CXO is like a Pilot

- CXOs are comfortable at the helm
- Rulebooks provide comfort level for safe decisions
- Risk Managers provide checkpoints

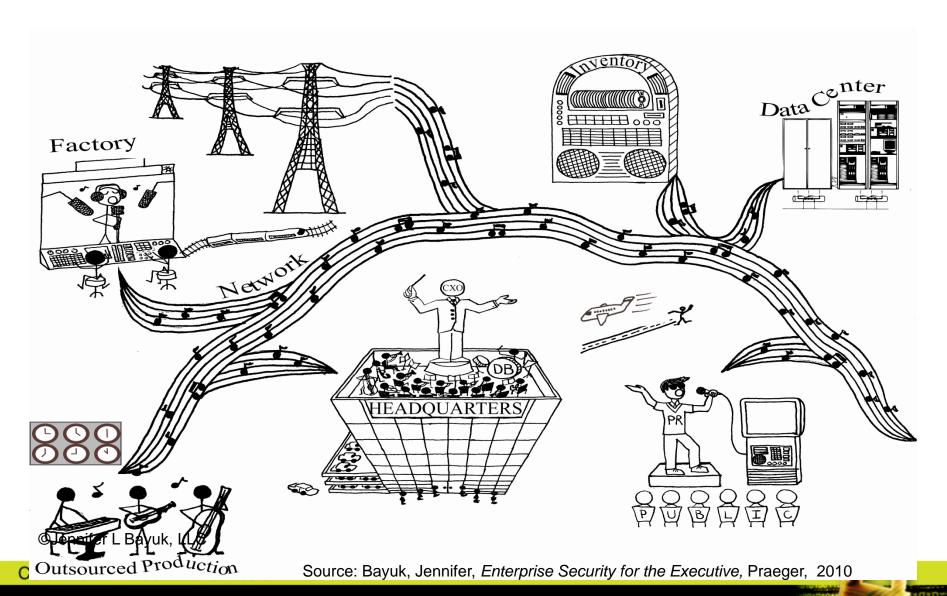


The plane has to stay in the air and get to the destination.

Source: Bayuk, Jennifer, Introducing Security at the Cradle SANS Security and Audit Controls that Work Conference. April 2003

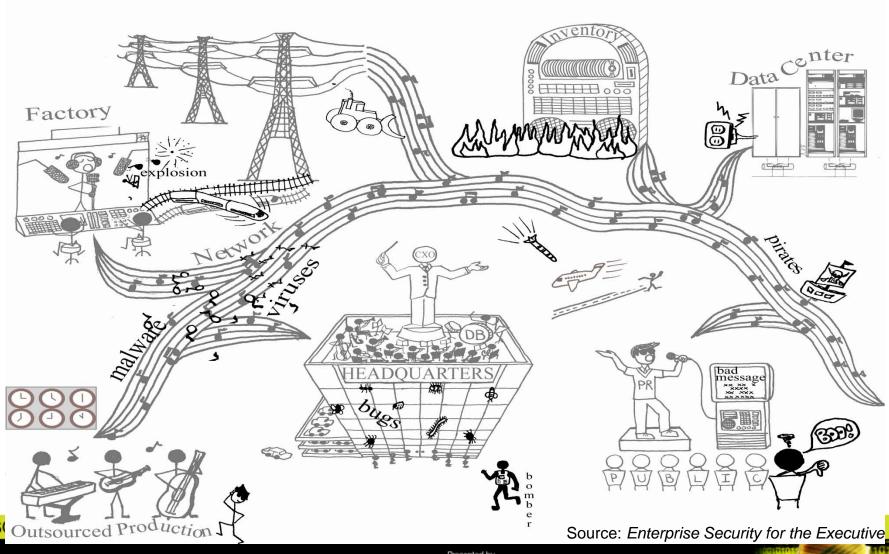


What CXOs Want





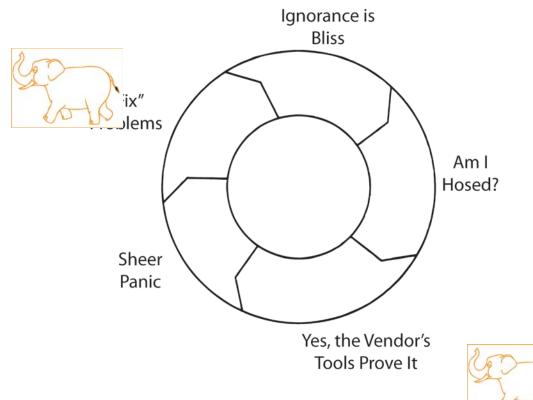
Threat Landscape Overlay



How not to view Security Risk

The Hamster Wheel of Pain

An Alternative View of "Risk Management"



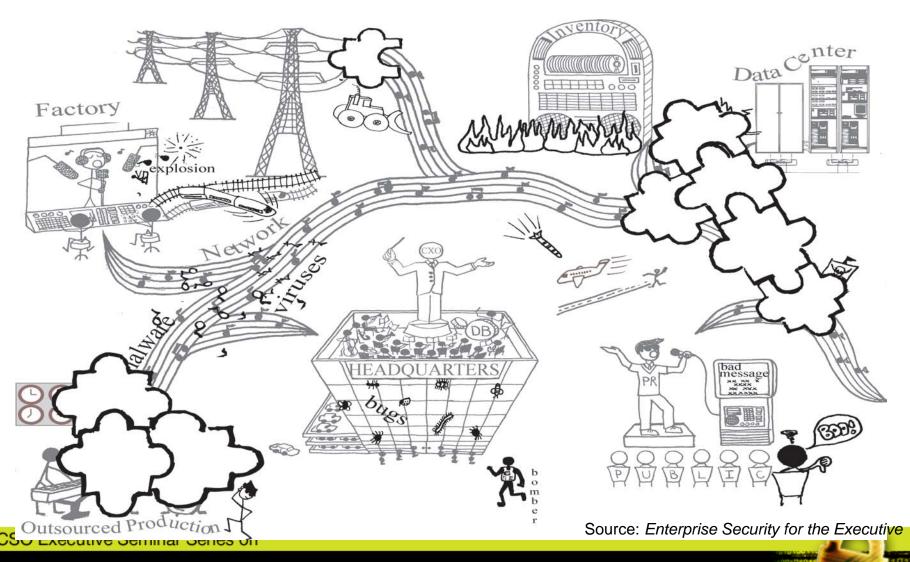
Source: Jaquith, Andrew, Security Metrics, Pearson Education, 2007.





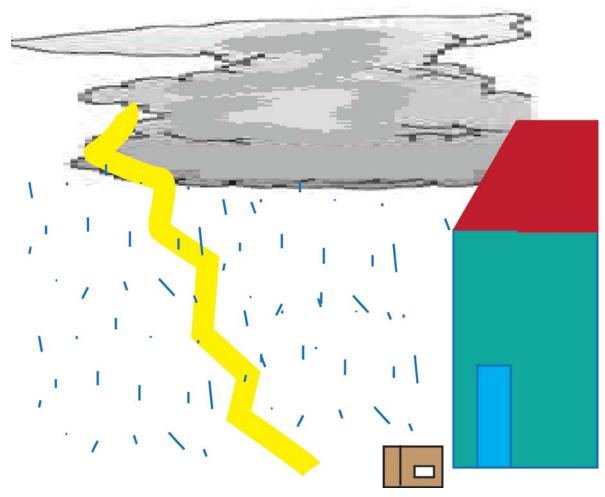


Hamster Wheel Approach

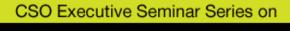




Weatherproofing Analogy



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Policy at CXO Level

- "All data used to run the physical plant should never leave the plant unless through a process controlled by information technology, and then, only for the purpose of archiving recovery data."
- "All information concerning our customers will not be shared with anyone who does not have an immediate need to know to accomplish a service or task on the customer's behalf."
- "All product inventory will be stored only in company warehouses unless it is in the process of being shipped under a customer purchase order."

Awareness promotes Accountability

Think holistically

Program should be unavoidable

Tone at the Top



Documentation



Roles and Responsibilities



Process Creation



Corresponding Training



Metrics

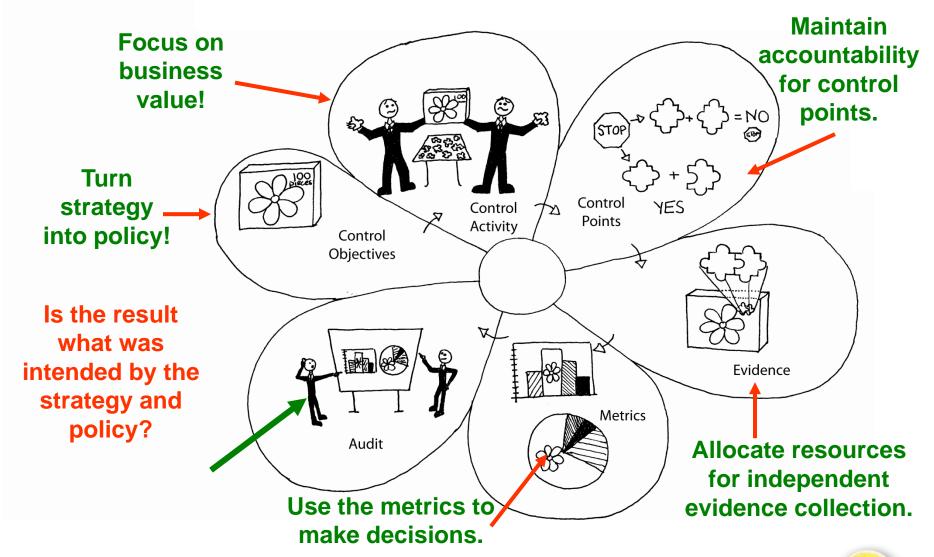








CXO Support Strategy



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Questions, Discussion?

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Presentation based on the book: Enterprise Security for the Business Executive Setting the Tone at the Top, Praeger, 2010

