



DATA PRIVACY & PROTECTION

Cyber Security Auditing for Credit Unions

ACUIA Fall Meeting

October 7-9, 2015



Topics

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- **Introduction**

- **Cyber Security Auditing Program**

Discuss an effective and compliant Cyber Security Auditing Program from an:

- Internal audit department's role
 - Independent External Security Auditor's Role
- **The role and effects of the IT Risk Assessments in a Cyber Security Audit Program**

Introduction

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- **Jim Soenksen-CEO**
- **PIVOT Group LLC**
 - A National Independent Audit, Assessment and Compliance Firm providing exclusively Data Privacy and Protection Services
- **Offices**
 - Atlanta
 - Orlando
 - Dallas
 - Chicago- Coming Soon!

Cyber Security Audit Program DNA

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Your Obligations

- Protect Member's Data
- Compliance
- Awareness
- Communication
- Well Informed Policy Assumptions
- Reliable Reporting
- Attestation of Results
- Current and Relevant
- Risk Based Program and Assessment



Internal Auditor's Role

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- Develop Enterprise Audit Program
 - Compliance
 - Policies
 - Internal Controls
- Independence
- Risk Base
- Leverage Departments Reporting
- Outsource as Required or Needed

Independent External Auditor's Role

- Information Security Program-Independent Attestation
- Testing areas of program where resources or expertise does not exist
- Compliance-ISO, PCI
- Special Situations
 - Validate BC/DR
 - Insider Fraud
 - Incident Response
 - Vendor Management

2015 Data Privacy Regulations

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- GLBA/NCUA Reg 748 A&B
- FFIEC Authentication
- FFIEC Social Media
- PCI
- TR-39/TG-3
- State and Federal Data Breach Notification Laws
- CISPA 2015
- Enterprise Risk Management



2015 NCUA Examination Focus

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- New Cyber Security Risk Exam
- IT Exam
- DDoS
- Incident Response
- BC/DR
- Enterprise Risk Management
- Vendor Management
- Remediation Progress



- [illegible]

Biggest Voids-Internal Audit

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- Expertise/Knowledge
- Interdepartmental Coordination
- Auditing Tools
- Changing Regulations/Exam Requirements
- Incident Response
- Back Up and Disaster Recovery
- IT Expertise
- Physical Security
- Board Awareness
- Risk Based
- Risk Analysis Tools

External vs. Internal

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- Develop Enterprise Audit Plan
- Determine In-House Expertise and Resources
- Outsource or Train where Lack of Expertise
- Determine Required Outsource
 - Financials
 - Information Security Program
 - Website/Marketing Compliance
 - PCI

How does IT Risk Assessments Fit?

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Risk Based Program

- Data Breach/Leakage
- Asset Protection
- Non-Compliance
- Reputation
- System Compromise
- Increase Costs
- Misused Resources
- Uniformed Decisions
- Missed Opportunities



Major Data Breach Prevention

- IT Controls
- Encryption
- Vulnerability Management
- Social Engineering
- Vendor Management
- Training
- Internal Fraud
- Mobile Applications Control
- Incident Response Program
- Info/Sec Control Testing
- Independent Security and Compliance Audits

Credit Union's Biggest Threats

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- Social Engineering
- Vendor Management
- Mobile Disasters
- Physical Disasters
- Insider Fraud
- Credit/Debit Cards
- Unencrypted Data
- Incident Response

FFIEC Cyber Risk Assessment Tool

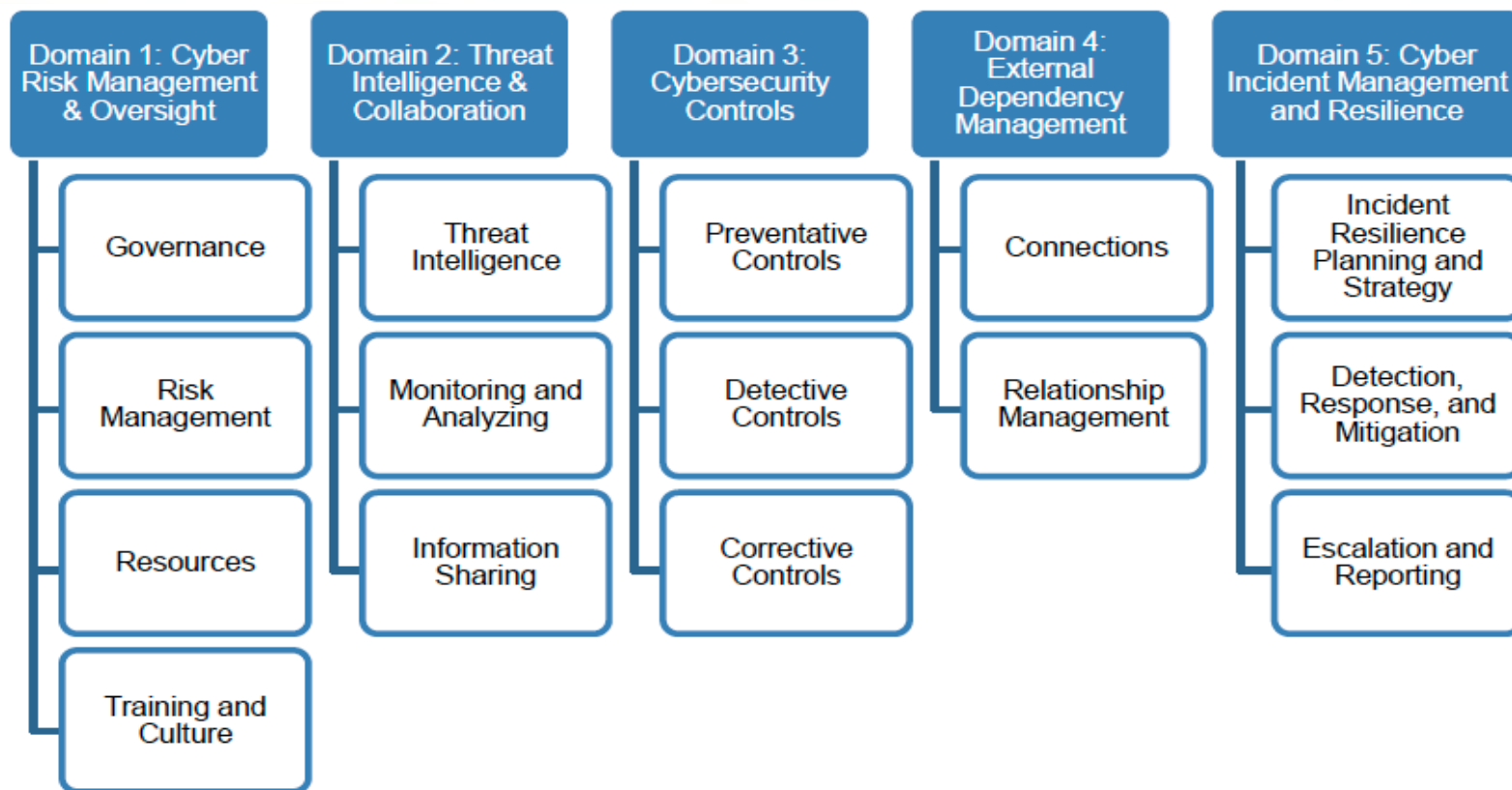
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Benefits to the Institution

- For institutions using the Assessment, management will be able to enhance their oversight and management of the institution's cybersecurity by doing the following:
- Identifying factors contributing to and determining the institution's overall cyber risk.
- Assessing the institution's cybersecurity preparedness.
- Evaluating whether the institution's cybersecurity preparedness is aligned with its risks.
- Determining risk management practices and controls that are needed or need enhancement and actions to be taken to achieve the desired state.
- Informing risk management strategies

Cyber Risk Domains

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FFIEC Cyber Risk Assessment Tool

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To complete the Assessment, management first assesses the institution's inherent risk profile based on five categories:

- Technologies and Connection Types
- Delivery Channels
- Online/Mobile Products and Technology Services
- Organizational Characteristics
- External Threats

Management then evaluates the institution's Cybersecurity Maturity level for each of five domains:

- Cyber Risk Management and Oversight
- Threat Intelligence and Collaboration
- Cybersecurity Controls
- External Dependency Management
- Cyber Incident Management and Resilience

Inherent Risk Ratings

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Maturity Model

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Risk/Maturity Relationship Matrix

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Risk/Maturity Relationship		Inherent Risk Levels				
		Least	Minimal	Moderate	Significant	Most
Cybersecurity Maturity Level for Each Domain 	Innovative					
	Advanced					
	Intermediate					
	Evolving					
	Baseline					

Implementation

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Who does What???

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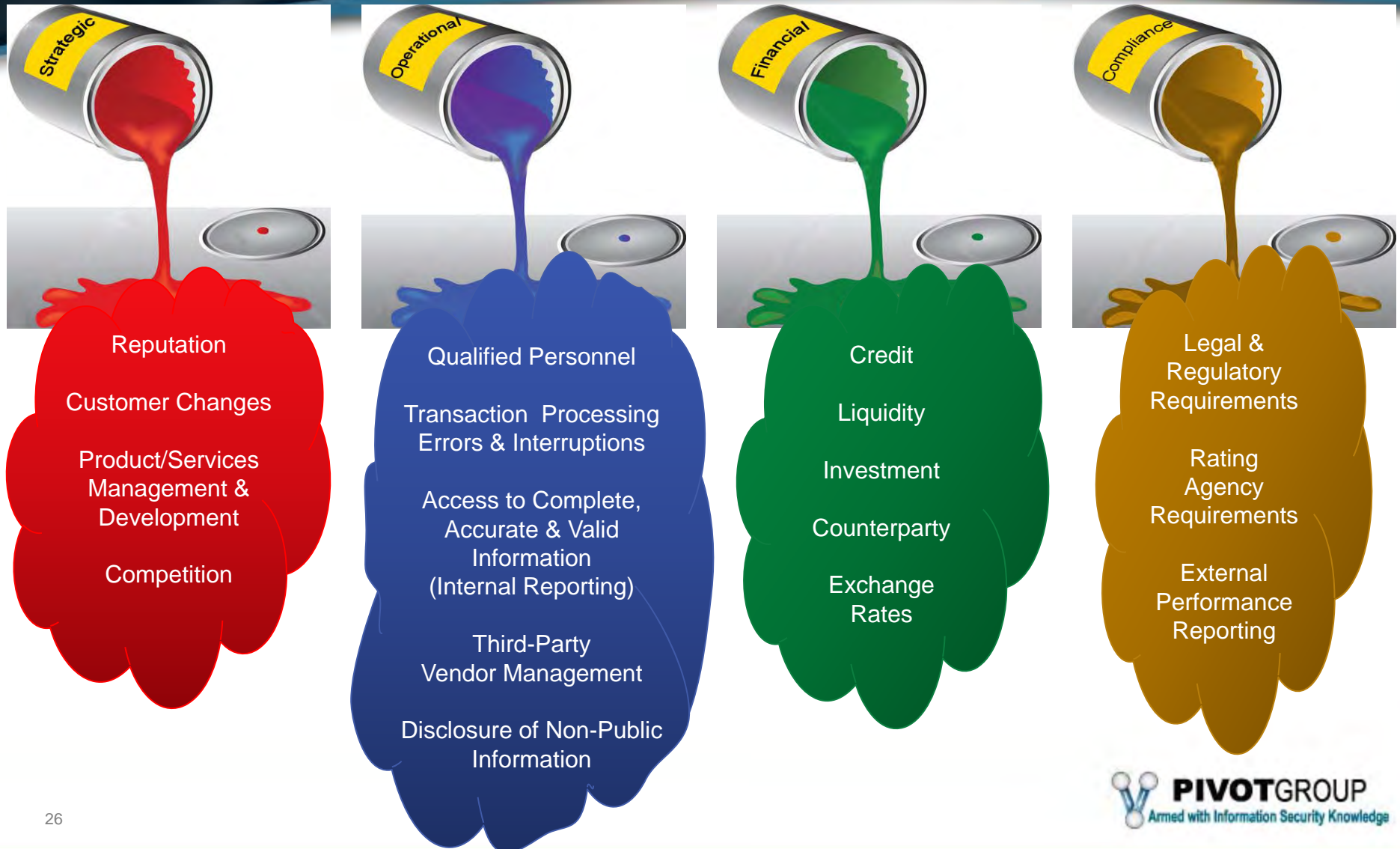
Linkage to ERM

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Your Risk Appetite & Profile

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Take Aways

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- Including Cyber Security in Internal Audit Programs
- When to Outsource
- Information Security Basics
- Cybersecurity Risk Assessments
- Integrating into ERM



Thank you!

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Q&A

● Contact PIVOT Group....

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