



Enterprise Risk Management & Information Technology

Presented by Scott Perry - Slalom Consulting

Agenda

- ▶ **Introductions**
- ▶ **Session Objectives**
- ▶ **Overview of Enterprise Risk Management**
- ▶ **The Role Of IT**
- ▶ **IT Governance Model**
- ▶ **IT Risk Assessment**
- ▶ **How IT Auditors Add Value**
- ▶ **Key Summary Points**
- ▶ **Q&A**

Introductions

Scott Perry, CPA, CISA

**National Leader, IT Risk & Control Solutions,
Slalom Consulting**

Focuses on areas such as

- ▶ **IT Governance**
- ▶ **IT Security & Regulatory Compliance**
- ▶ **ERM**
- ▶ **PKI Audit**

**Oversees all methodology and delivery in this
specialization area.**

Session Objectives

- ▶ **Provide an overview and historical context for Enterprise Risk Management (ERM)**
- ▶ **Discuss the changing risk landscape and how ERM is evolving in companies today**
- ▶ **IT and its emerging role in ERM**
- ▶ **How IT Auditors can add value in the ERM process**

Types of Business Risk

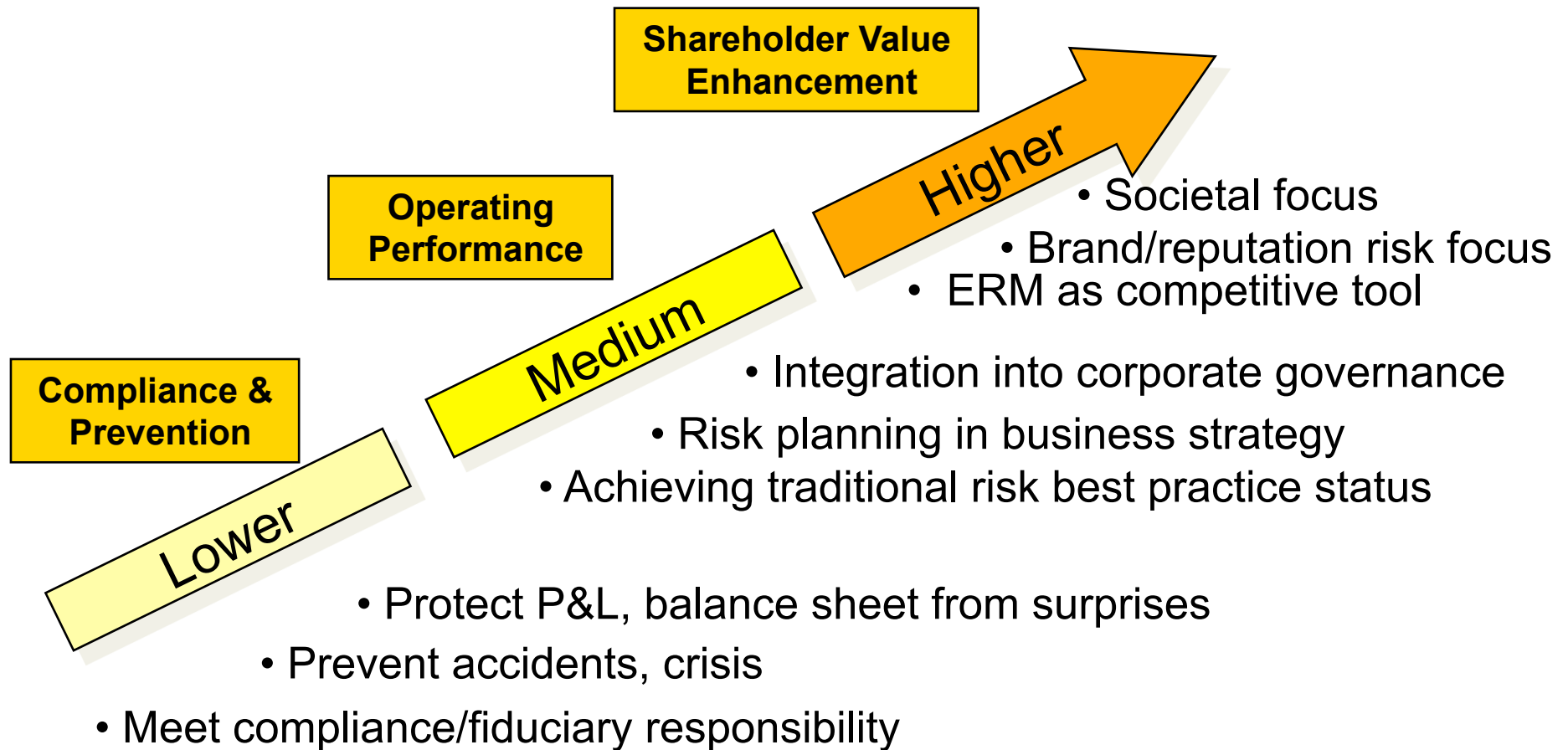
What kinds of
Risks does your
Company Face?

Compliance Risk
Environmental Risk
Litigation Risk
Reputation Risk
Financial Reporting Risk
Credit Risk
Inherent Risk
Control Risk
Liquidity Risk
Availability Risk
Going Concern Risk



Health & Safety Risk
Ethics Risk
Mergers & Acquisition Risk
Capacity Risk
Supplier Risk
Personnel Risk
Systems Performance Risk
Control Risk
Capital Market Risk
Government Risk
Natural Disaster Risk
Economic Risk
Data Integrity Risk

Various Levels of Risk



Risk Management Options

There are several options that management may consider to address risks:

- ▶ Acceptance
- ▶ Avoidance
- ▶ Mitigation
- ▶ Reduction
- ▶ Sharing



Risk Management Framework

Governance

- setting and evaluating performance against objectives
- power to authorize a business strategy and model to achieve objectives

Risk Management

- proactively identifying, rigorously assessing and addressing potential obstacles to achieving objectives
- identifying and addressing risks that the organization will step outside of mandated and voluntary boundaries



Culture

- establishing an organizational climate and individual mindsets that promote trust, integrity and accountability

Compliance

- proactively encouraging and requiring compliance with established policies and boundaries
- detecting noncompliance and responding accordingly

Source – Open Compliance and Ethics Group

Risk Management Framework

The guidelines are organized into four areas:

CULTURE

A strong culture helps to guide corporate conduct when formal structures are weak or absent.

ORGANIZATION / PERSONNEL

Qualified personnel must be responsible for program oversight, strategy and operation.

PROCESS

A program must address several key process areas and topics to ensure they are not only effective, but also efficient and responsive.

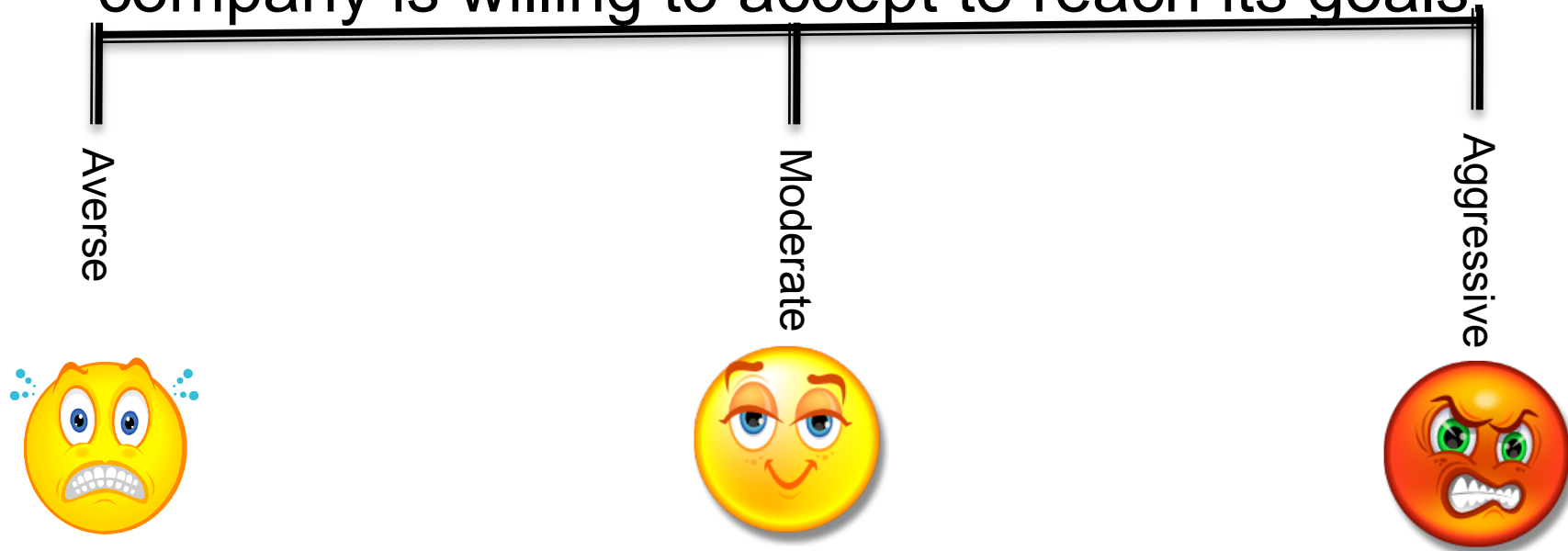
TECHNOLOGY

An underlying system and technology architecture should enable the process. Organizations should seek to leverage existing investments where possible.

Source – Open Compliance and Ethics Group

Risk Appetite

Risk appetite is the degree of uncertainty a company is willing to accept to reach its goals



What is your Company's Risk Appetite?

Evolution Of Risk Management Activities

From	To
Limited strategic influence	Effective support of strategic and business planning
Risk aversion	Proactive risk management
Silo effects and barriers	Integrated, holistic approach
Inconsistent risk reporting	Concise and consolidated reporting
Infrequent risk assessment	Continuous risk assessment & reevaluation
Ambiguous ownership for certain types of risk	Risk ownership assigned in management business and evaluation plans
Closed communication	Open communication
Lack of clear definitions of roles and responsibilities	Risk management roles and responsibilities clearly defined and communicated

Benefits OF ERM

- ▶ **Better Understanding of Risk Posture**
- ▶ **More Effective Risk Mitigation**
- ▶ **Less Business Fear**
- ▶ **Greater Corporate Support for Critical Business Ventures**
- ▶ **Improved Corporate Governance**



Benefits of ERM

- ▶ **Investors are willing to pay a premium for effective risk management**
- ▶ **Ratings agencies are increasing their focus on risk management.**

Source – Compliance Week



Model Risk Management Process

- 1. Define scope and objectives**
- 2. Identify boundaries and types of risks**
- 3. Perform an Enterprise Risk Assessment**
- 4. Bucket and prioritize risks**
- 5. Establish Risk Mitigation projects and reduction programs**
- 6. Institute feedback mechanisms**
- 7. Optimize and refine**



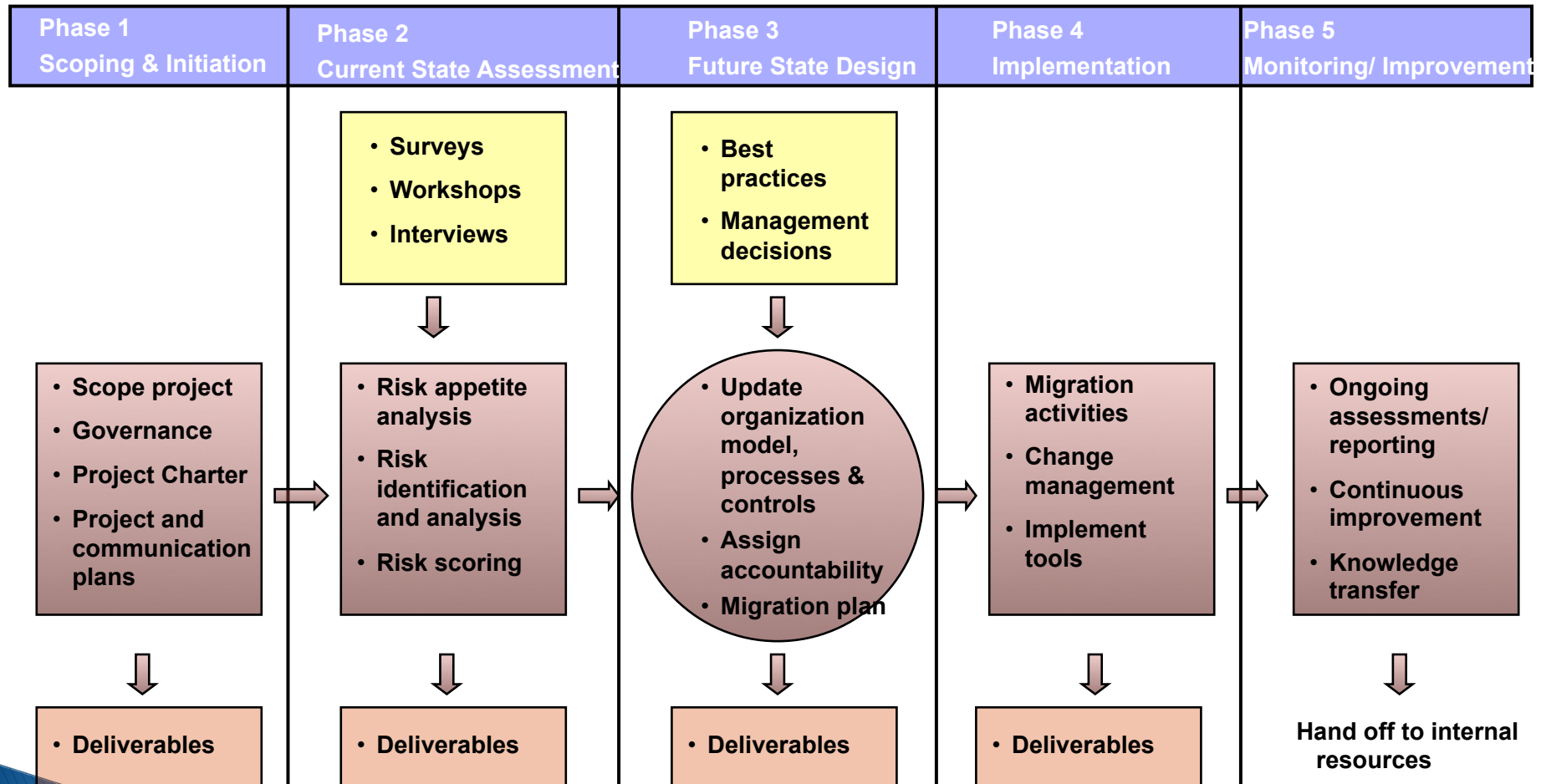
Key Success Factors

- ▶ **Get Executive management Buy-in**
- ▶ **Establish the end state**
- ▶ **Create a common taxonomy**
- ▶ **Evangelize the concept throughout the enterprise**
- ▶ **Take on only what you can achieve**
- ▶ **Get both top-down and bottom-up perspectives**
- ▶ **Get Objective Advice**

Key Success Factors

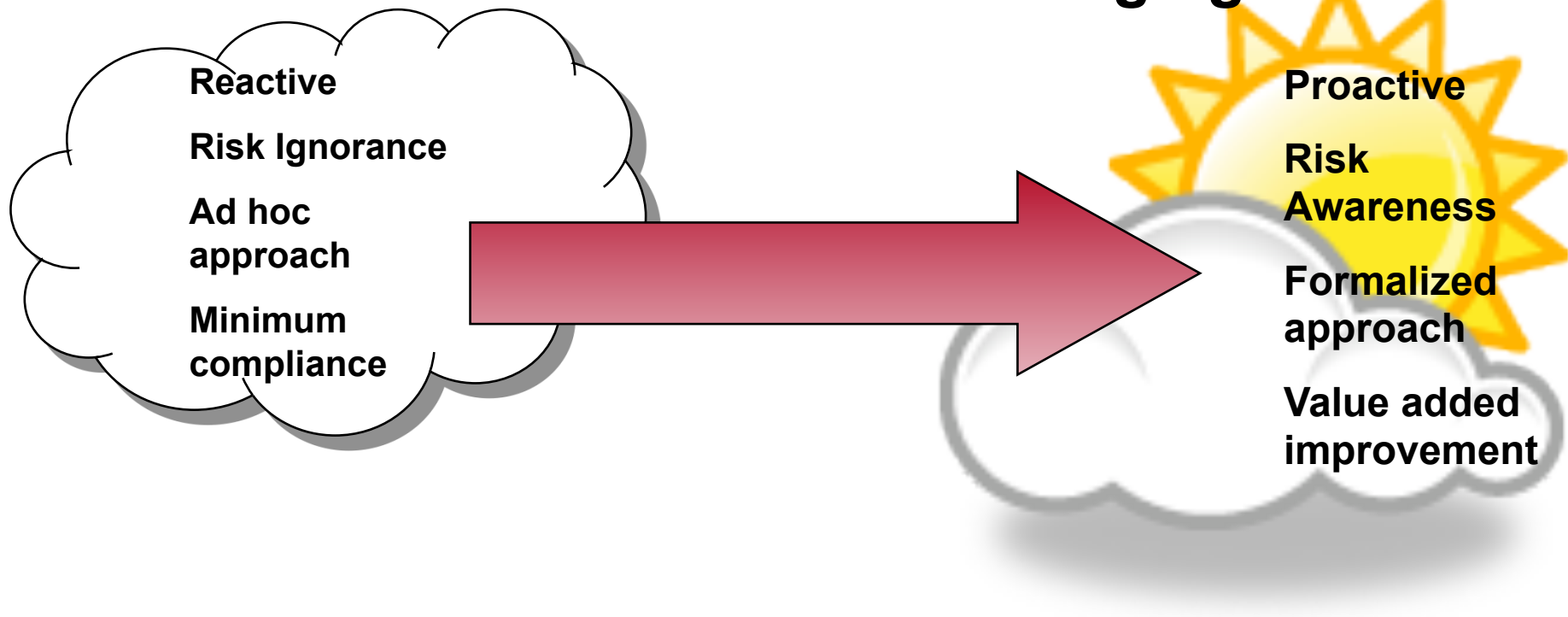
- ▶ **Management Acceptance and Ownership**
- ▶ **Treat ERM like a Mission Critical Project**
- ▶ **Coordinate ERM for other Compliance and Risk Mitigation Efforts**
- ▶ **Create a Central Repository for Risks**
- ▶ **Link To Performance Measures**

ERM Implementation Project Phases



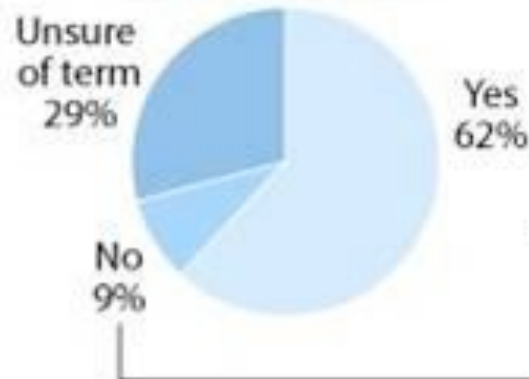
How Does IT Look At Risk ?

The IT risk focus is changing



IT is Getting Onboard

"Does your company have an initiative underway in the area of risk management and compliance?"



Percentage of CIOs who have implemented or are actively implementing IT's own processes for risk management and compliance

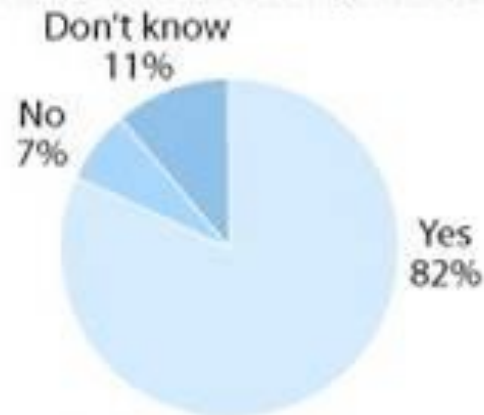


Base: 231 CIOs at North American companies

Source Forrester Research

IT is Getting Onboard

“Are your IT risk management and compliance efforts integrated with your company’s overall risk management and compliance efforts?”



Base: 141 CIOs at North American companies

Source Forrester Research

The Role Of IT in Managing Risk



Yesterday – Reacting and Firefighting



Today – Some are proactively managing IT risk and compliance

Tomorrow - Risk central nervous system



Drivers For Change

**There are many
interdependent IT risks**

**Increased liability and
regulatory oversight**

**Companies are
formalizing IT risk
and compliance**



**IT is a core
components of
operational
risk**

IT Has Responded

Huge adoption of IT governance, security and operational frameworks

IT is leveraging:

- ▶ **Better integration**
- ▶ **Tools & Templates**
- ▶ **Incentives**



Executive Management Reporting

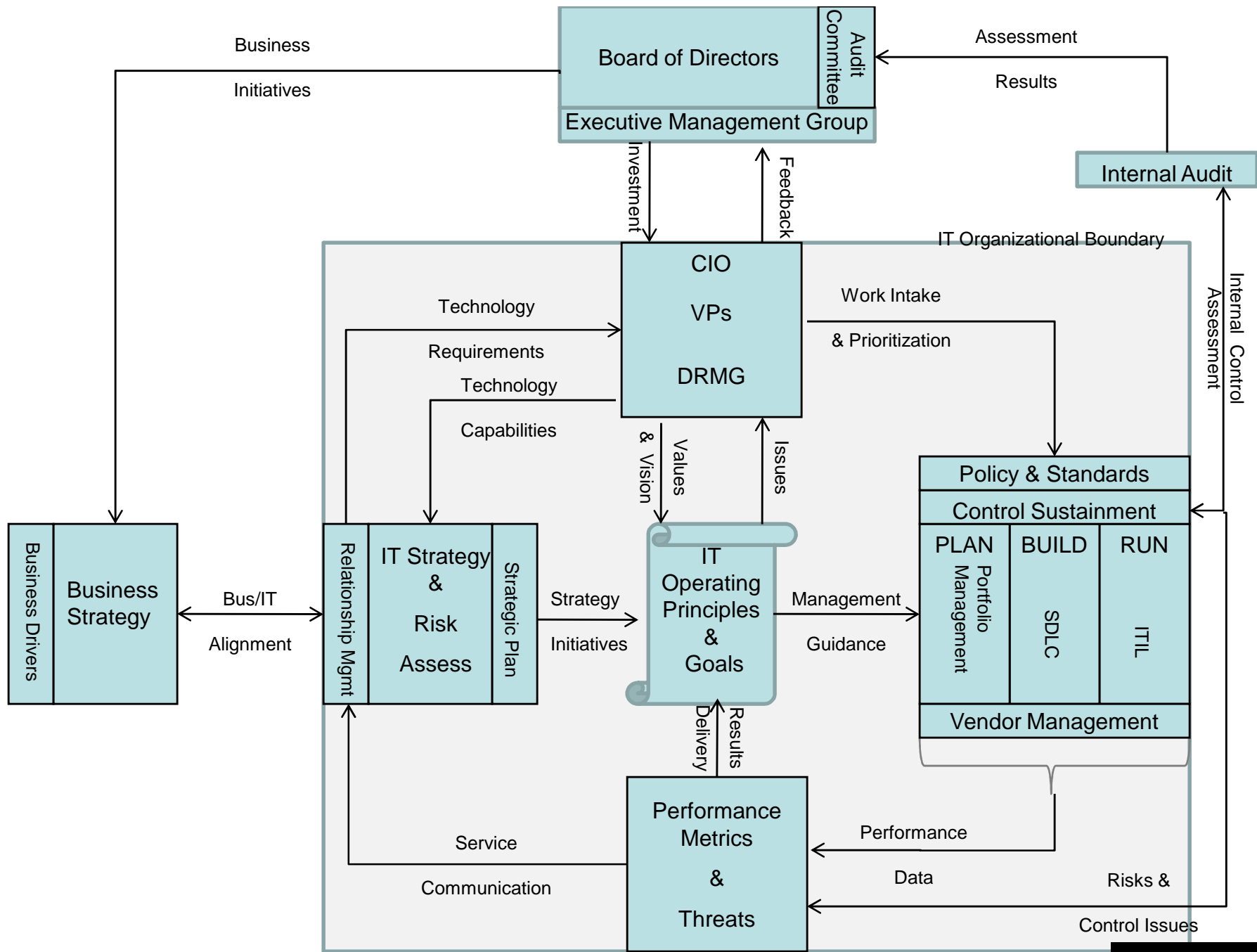
Dashboards, scorecards and metrics allow for better IT performance and risk management



Developing A Governance Model

- ▶ **Give IT a prominent seat at the risk table**
- ▶ **Appoint IT risk and compliance focal points**
- ▶ **Develop an IT risk and compliance strategy**
- ▶ **Develop IT measurements and feedback mechanisms**





IT Governance Framework

Advantages Of Control Frameworks

- ▶ **Consistent and Defensible**
- ▶ **Tailored for progressive implementation**
- ▶ **Aligns IT process with business goals/objectives and regulatory requirements**
- ▶ **Educates Management and executives to better manage risks associated with IT**



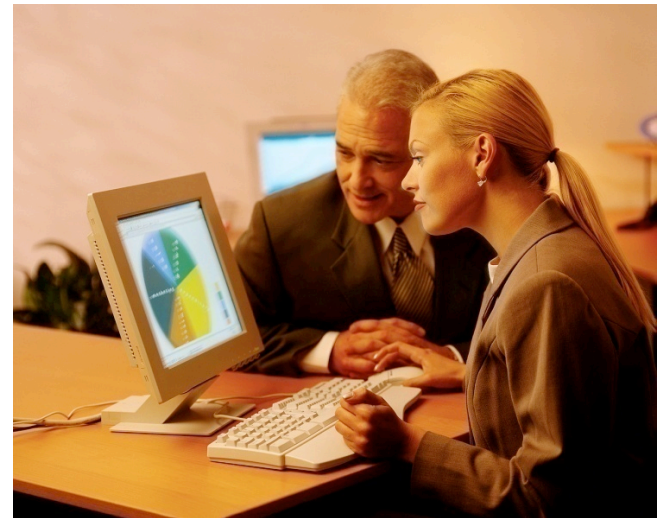
Role Clarification is Key

Stakeholder	Role
Director of Audit	Designs audit plans based on risks
General Counsel	Translates regulatory reqs
CFO	Validates control strength
Chief Risk Officer	Creates control structures
Director of Procurement	Protects against vendor access
CIO	Manages IT risk program

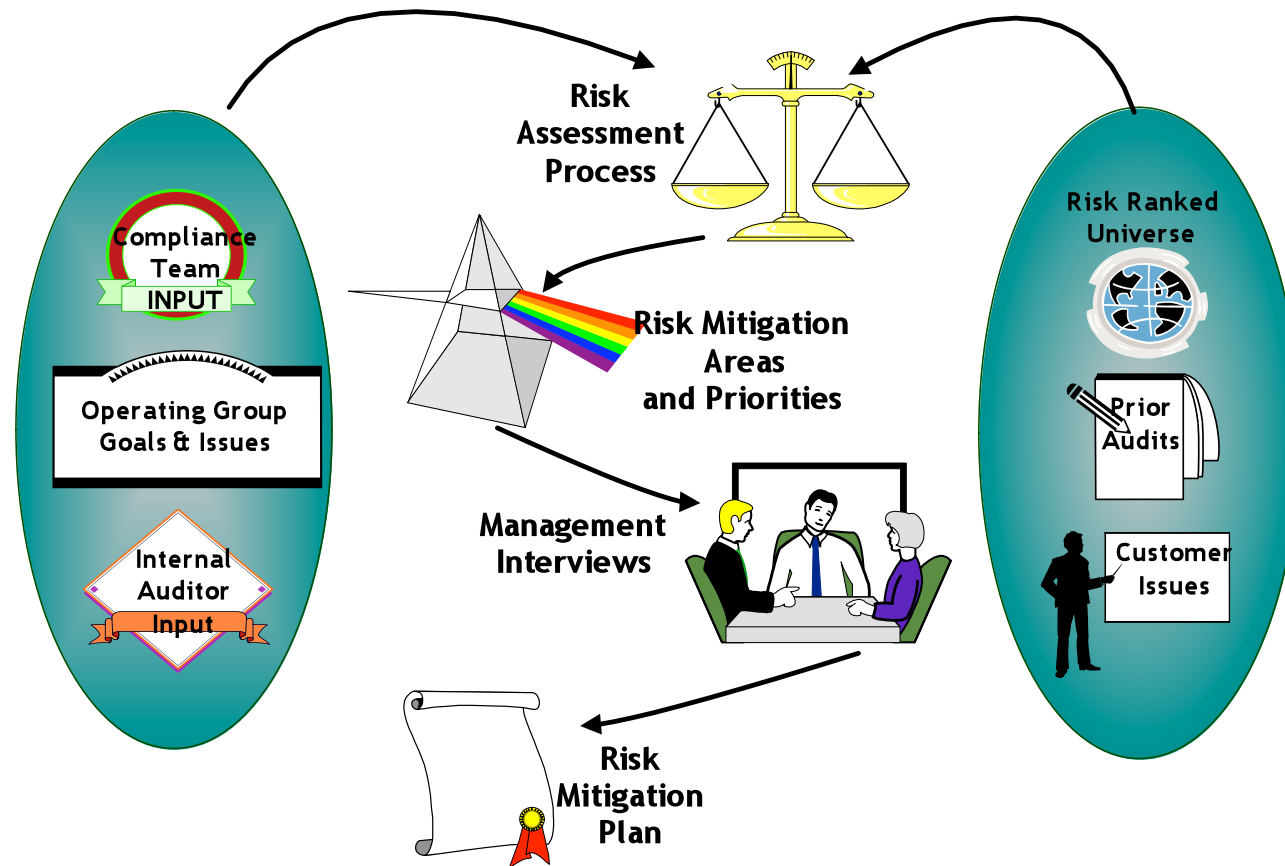
How Do You Approach IT Risk Assessments ?

The same way as enterprise risk

IT should influence the strategic opportunities and benefits identified by the enterprise



ERM Planning Methodology

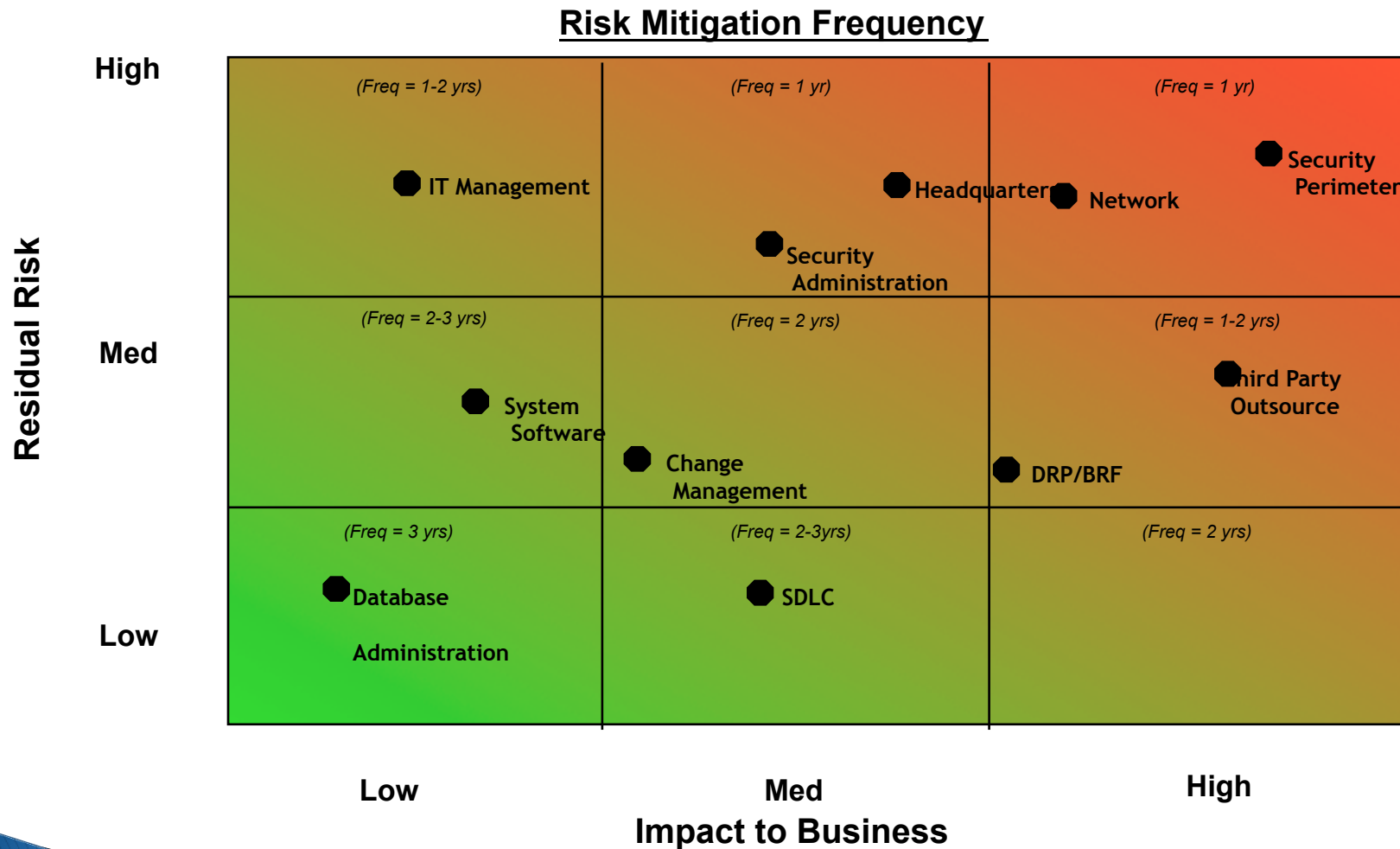


IT Risk Assessment Dashboard

The IT Risk Assessment Dashboard graphically depicts how well inherent risks in IT Resources are controlled by the organization

		Risk Attributes				
		Availability	Security	Integrity	Maintainability	Compliance
IT Resources	Data					
	Applications					
	Infrastructure					
	Facilities					
	Personnel					

Heat Map



How Auditors Add Value

Be the In-house Expert on Risk

- ▶ Education on IT risk frameworks
- ▶ Determine levels of process maturity
- ▶ Leverage prioritization and continuous process improvement



Be a Facilitator

- ▶ Taxonomy to bridge the business-technology gap
- ▶ Control “rogue” IT activities



Key Summary Points

- ▶ **Critical success factors in any ERM effort:**
 - ▶ **Clear ownership and accountability of risk**
 - ▶ **Realistic expectations of success of risk control plans**
 - ▶ **Ongoing communications, “governance” processes to continually re rank risks, and identify new ones**
- ▶ **ERM is ultimately about changing culture and behavior, driving decision making and measurable results**

Key Summary Points

Covey Quadrant

<p>Quadrant I: Urgent and Important</p> <p>To Do:</p> <ul style="list-style-type: none">•••••••	<p>Quadrant II: Important and Not Urgent</p> <p>To Do:</p> <ul style="list-style-type: none">••••••• <p>ERM</p>
<p>Quadrant III: Urgent and Not Important</p> <p>To Do:</p> <ul style="list-style-type: none">•••••••	<p>Quadrant IV: Not Urgent and Not Important</p> <p>To Do:</p> <ul style="list-style-type: none">•••••••

Q&A – Contact Information

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