A Practical Approach to Enterprise Risk Management

What's your Risk?

Presented by:



Amit Govil
Managing Partner, P&G Associates





What's your Risk?

Today's Agenda

- I. Defining ERM
- II. Implementation Challenge
- III. Framework for Practical Implementation
- IV. Three Phases for Implementation
- V. Benefits of ERM

What's your Risk?

Defining Enterprise Risk Management

ERM - Confusion over what to measure and how

- Measuring the potential for loss of assets
- Measuring the potential for loss of future earnings and capital
- Measuring risks for accidental losses
- Strategic, operational risks

What's your Risk?

Defining Enterprise Risk Management

COSO Definition:

A process, affected by an entity's Board of Directors, management and other personnel, applied in a strategy setting and across the enterprise, designed to identify potential events that may affect the entity, and manage risks to be within its risk appetite, to provide reasonable assurance regarding the achievement of entity objectives

What's your Risk?

Defining Enterprise Risk Management

In search of the Definition of ERM

- How to apply the concept, in a practical way, to a community financial institution
- What is the benefit of developing one?

What's your Risk?

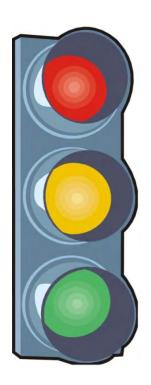
Defining Enterprise Risk Management

In 1964, a Supreme Court Justice, having difficulty explaining pornography, simply said:

"I can't explain it...but I know it when I see it."

What's your Risk?

Defining Enterprise Risk Management



A warning system

What's your Risk?

Defining Enterprise Risk Management

RED ALERT

What's your Risk?

Defining Enterprise Risk Management

Three Prong Approach

- Understanding our risks, internal and external environment
- Method to validate that the various processes and controls in place are working (*Is everyone doing what they are supposed to be?*)
- Method to ensure that the business strategy in place is generating the right results (*Is our strategy adequate?*)

What's your Risk?

Hurdles for Implementation

- No clear regulatory guidance/road map
- COSO/BASIL standards that define measurement and quantification of risk are geared for large institutions
- Centralizing data needed to measure and identify risk is difficult
- Lack of Institution wide Support or Deemed Value of Implementation

What's your Risk?

Framework for Practical Implementation

• Holistic Approach – Enterprise wide

 A mechanism that is understood and useful at the Board of Directors level

What's your Risk?

Framework for Implementation

DEFINE



MEASURE



What's your Risk?

Framework for Implementation

Phase One

Perform an Enterprise wide Assessment of:

1. Internal Environment – Set Framework

2. Objective Settings – Identification of Risk Settings

What's your Risk?

Framework for Implementation

Phase One

- 1. Internal Environment Set Framework
 - a) Document Risk Management Philosophy
 - b) Perform and Document Risk Culture Survey
 - c) Develop Risk Management Policy
 - Define Board Oversight
 - Identify Risk Committee
 - Identify CRO
 - Identify the Organization Structure

What's your Risk?

Framework for Implementation

Phase One – Internal Environment

Document Risk Management Philosophy:

- The Organization's risk culture
- How risks are identified and managed (i.e., written policies, performance indicators, meetings with managers, exception reports, etc.)

What's your Risk?

Framework for Implementation

Phase One – Internal Environment

Perform and Document Risk Culture Survey:

- How well does everyone in the organization understand:
 - Code of conduct
 - Work Environment
 - People/Resources
 - Risk Management
 - Access to Information



What's your Risk?

Framework for Implementation

Phase One – Internal Environment

Develop Risk Management Policy:

- Goals
- Roles and Responsibilities Board, CEO, CRO, Management, Employees, Internal Audit, Compliance
- Definition of types of Risks Inherent, Residual, Risk categories (i.e., Reputation, Market, IT, etc.)
- ERM Process Frequency of updates, surveys, benchmarking, KPI indicators, risk assessments, etc.

What's your Risk?

Framework for Implementation

Phase One

Objectives

- a) Define Functional Areas in the Bank
- b) Define Key Risks to measure
- c) Define measurable Key Performance Indicators ("KPI") for each area (Internal And External)
- d) Define tolerances for each Key Performance Indicator
- e) Overall assessment of objectives for each functional area based on the level of tolerance accepted for each KPI

What's your Risk?

Functional Areas

Examples of areas to consider:

- Lending
- Financial
- Regulatory Compliance
- Retail/Branch Administration
- Human Resources
- Internal Audit
- Marketing
- Operations
- Board/Corporate Governance



What's your Risk?

Risk Categories

- Financial Reporting
- Operational
- Credit
- Information System
- Reputation
- Strategic and Governance
- Legal and Compliance
- Liquidity
- Fraud
- Market



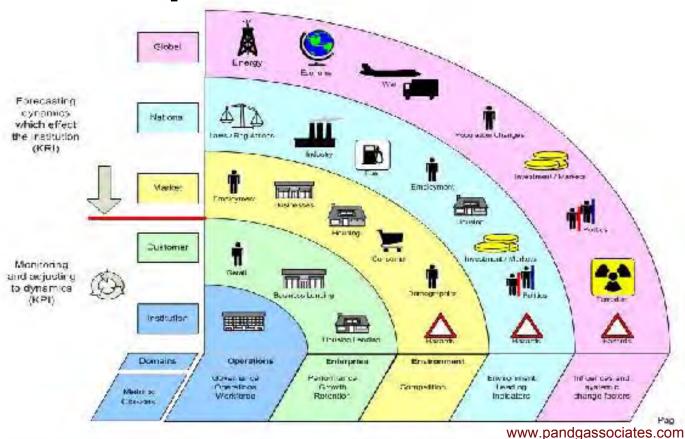
What's your Risk?

Building the ERM

Phase II

What's your Risk?

Enterprise Risk Domains



What's your Risk?

9 Steps to an ERM Program Build

Information Gathering and Strategy

Gather Existing Information

Organization

Profit Centers

Programs and Assessments

Portfolio Composition

Workforce Profile

Infrastructure

Establish Current Performance

Objectives

Growth Retention Performance

Qualitative /Quantitative **Metrics Use for KPI**

Peer and Competition Groups

Customer Composition

Enterprise / Environment Factors

Concerns in Operations Risk Management

Material Concerns (Cost, Accuracy, Efficiency)

Workforce Compliance **Financial Controls**

Consider ORM initiatives

23

What's your Risk?

Risk Assessment Buildout

Risk Profile

Profit Center Focus

Risk Scenario Considerations

CAMELS Baseline
Ratio Model

Workforce Model
Int, Ext, Counterparty

Effects of Change Scenarios against Baseline

Risk Appetite

Performance Metrics Available (UBPR, FID, Other)

Review Comparative Trends and Set Thresholds

Scenarios /PIR Factors
Growth / Loss / Forecast

Confirm Risk Baseline with Management and set KRI

Define processes for support to ERM review and adjustment Risk Tracking & Reporting

Align Risk Scenarios to Objectives

Combine Risk Scenarios into Risk Weighted Profiles

Combine Risk Profiles into Risk Weighted Composites

Review and consider results and commentary

Prepare and organize management reporting

What's your Risk?

Risk Mitigation and Adjustment

Review and Conclusions

Establish review processes for each Profit Center

Prepare Management and Board Reporting

Apply decision making to identify risk mitigation opportunities

Review and approve performance objectives and program changes

Business Strategy Adjust

Identify appropriate metrics to monitor against objectives

Identify operational programs to effect changes

Identify risk avoidance changes based on trends and forecasts

Identify workforce, operations, financial changes

Incorporate changes into business plans and ERM model

Expand and Refine ERM Program

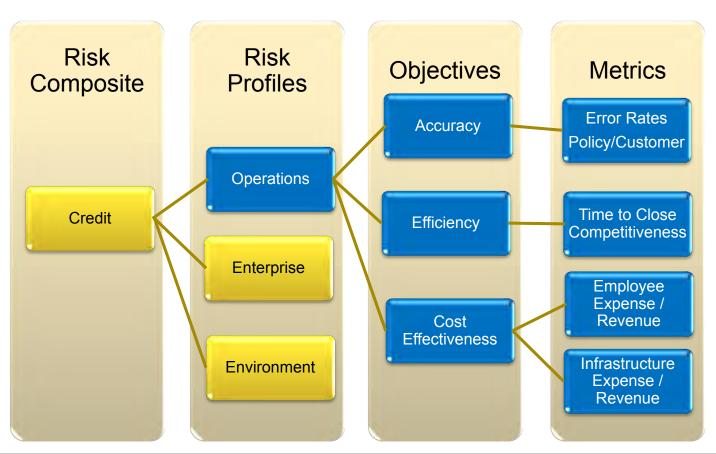
Monitor and Review
Program Effectiveness and
Performance

Adjust Program and Expand in concert with operations, enterprise or business environment changes

Establish new KPI and KRI

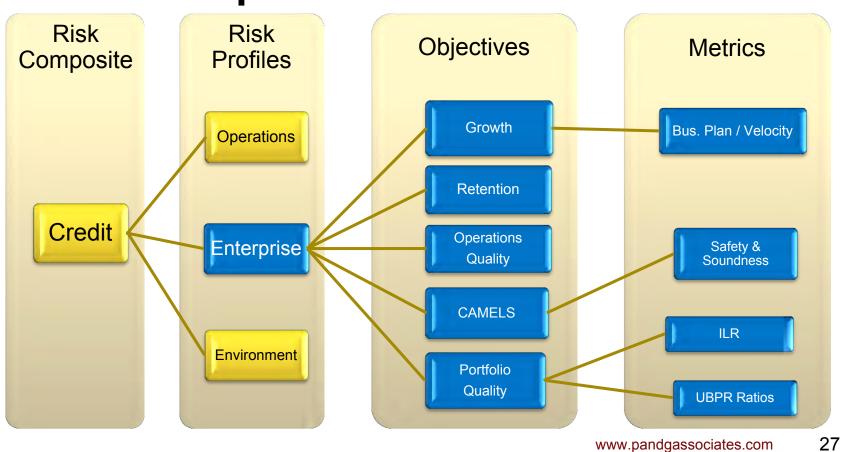
What's your Risk?

Operations Risk Contributors



What's your Risk?

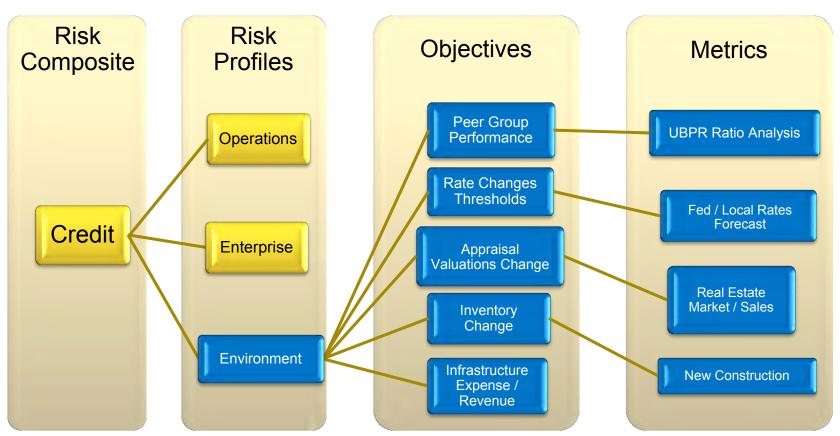
Enterprise Risk Contributors



27

What's your Risk?

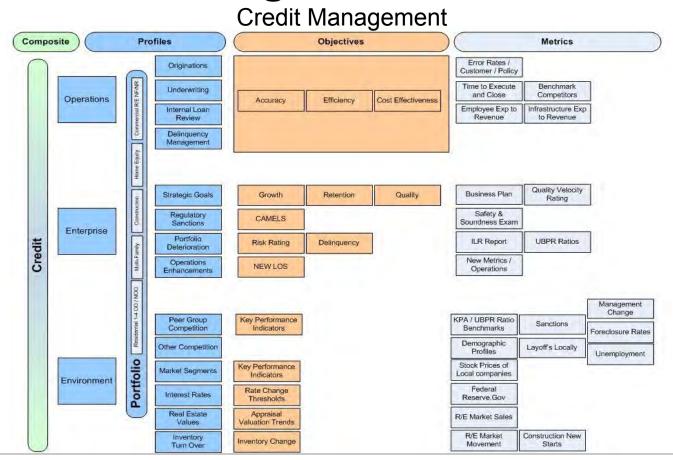
Environment Risk Contributors





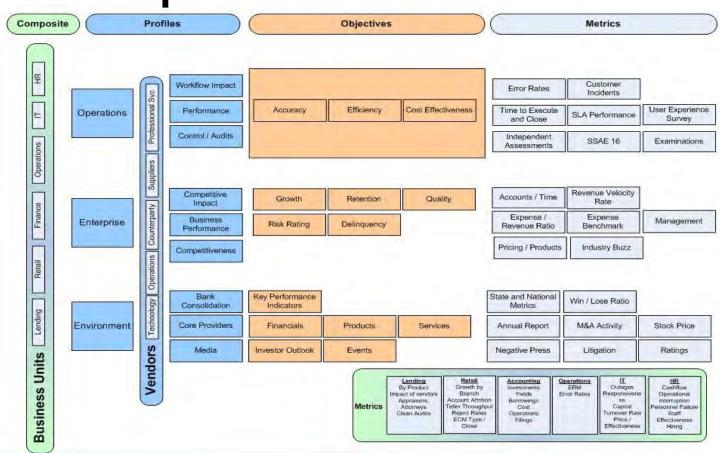
What's your Risk?

Building a Risk Profile



What's your Risk?

Operations Risk Profile



What's your Risk?

Key Performance Indicators

KPI Ratings

Exceeded Positive Performance Threshold

2

Advancing in Positive Direction

3

No Change

4

Advancing in Negative Direction

5

Exceeded Negative Performance Threshold

What's your Risk?

32

Enterprise Composite – By the Numbers

Credit Risk Management



	Prior		Latest				
Ops - Credit Admin	11/2011 4	.05	12/2011	4.05	15.0%	*	
Enterprise - Regulatory Sanctions	11/2011 3	.00	12/2011	3.64	15.0%	*	
Ops - Underwriting	11/2011 3	.27	12/2011	3.27	10.0%	3 +	
Credit	11/2011 3	.00	12/2011	3.24	10.0%	*	
Enterprise - Portfolio Deterioration	11/2011 3	.00	12/2011	2.97	30.0%	*	
Enterprise - Competition	11/2011 3	.00	12/2011	2.50	5.0%	*	
Environment - Interest Rates	11/2011 3	.00	12/2011	2.45	5.0%	4	
Enterprise - Strategic	11/2011 3	.00	12/2011	2.00	10.0%	*	www.pandgassociates.com



What's your Risk?

Enterprise – Regulatory Sanctions

Restriction on Business

Prior	Latest			
11/2011 3.0	0 12/2011 3.64 15.0% 💞			
	11101			

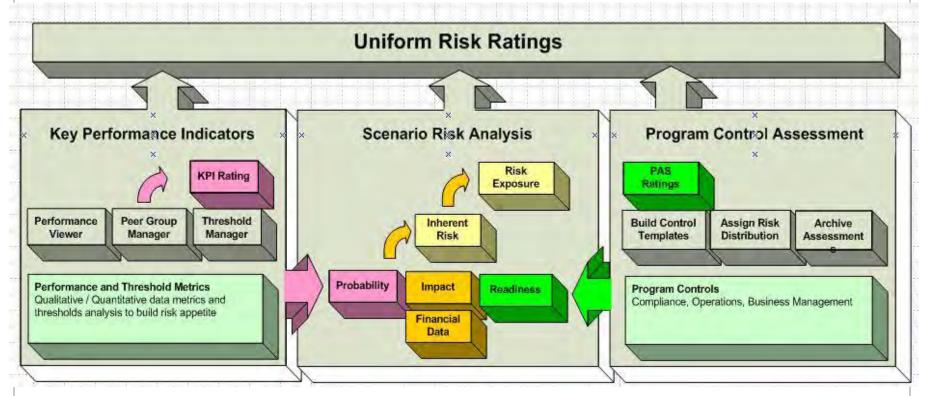
Risk Distribution Indicators	Prior	Latest		
Credit - Regulatory Sanctions - Monetary Penalties	11/2011 3.00	12/2011 3.80	20.0%	
Credit - Regulatory Sanctions - Restrictions on business		12/2011 3.60	80.0%	>



What's your Risk?

Risk Assessment

Probability / Impact / Readiness



What's your Risk?

Risk Scenario Scorecards

		Probability		Impact		Readiness		Risk		Risk Exposure
Enterprise (Business/Product Growth and Retention)										
Credit - Operations Improvements	5.000	Assured	4.000	Critical	5.000	Undemonstrated	4.500	Elevated	4,750	Extreme
Credit - Portfolio Deterioration - Commercial Real Estate (NF/NR)	5.000	Assured	4.000	Critical	4.000	Uncertain	4.500	Elevated	4.250	High
Credit - Portfolio Deterioration - Construction	5.000	Assured	4.000	Critical	4.000	Uncertain	4.500	Elevated	4.250	High
Credit - Portfolio Deterioration - Multi-Family	5.000	Assured	4.000	Critical	4.000	Uncertain	4.500	Elevated	4.250	High
Credit - Regulatory Sanctions - Restrictions on business	4.750	Assured	3.600	Critical	2.000	Intermediate	4.175	Elevated	3.088	Medium
Credit - Regulatory Sanctions - Monetary Penalties	4.750	Assured	3.400	Manageable	2.000	Intermediate	4.075	Elevated	3.037	Medium
Credit - Strategic - Multi-Family	5.000	Assured	3.000	Manageable	2.000	Intermediate	4.000	Elevated	3.000	Medium
Credit - Portfolio Deterioration - Home Equity	2.000	Unlikely	2.000	Insignificant	2.000	Intermediate	2.000	Insignificant	2.000	Low
Credit - Portfolio Deterioration - Residential 1-4	2.000	Unlikely	2.000	Insignificant	2.000	Intermediate	2.000	Insignificant	2.000	Low
Credit - Strategic - Commercial Real Estate (NF/NR)	4.000	Likely	2.000	Insignificant	1.000	Strong	3.000	Moderate	2.000	Low
Credit - Strategic - Construction	4.000	Likely	2.000	Insignificant	1.000	Strong	3.000	Moderate	2.000	Low
Credit - Strategic - Residential 1-4 Family	3.000	Possible	2.000	Insignificant	1.000	Strong	2.500	Insignificant	1.750	Low
Credit - Strategic - Home Equity	1.000	None	1.000	None	1.000	Strong	1.000	None	1.000	Insignificant



What's your Risk?

Scenario – Regulatory Sanction Risk

Probability Factor	
Non Current ASSETS as Percent of Total	5 @ 60%
Provisions Loan Receivables / Avg Assets	5 @ 15%
Loans and Leases Allowances to Total Ln&LS	4 @ 25%
Impact Factor	4.75
Community / Customer	3 @ 40%
Reputation	4 @ 60%
Controls / Readiness	3.6
Regulatory / Legal Management	2 @ 100%
Exposure / Risk	3.088 / 3.6

What's your Risk?

Non Current ASSETS as Percent of Total

Probability Factor

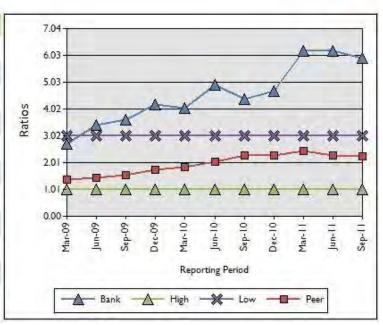
Noncurrent Assets As Percent Of Total Loans And Leases

NONCURRENT ASSETS AS PERCENT OF TOTL

Summary Ratios

5		

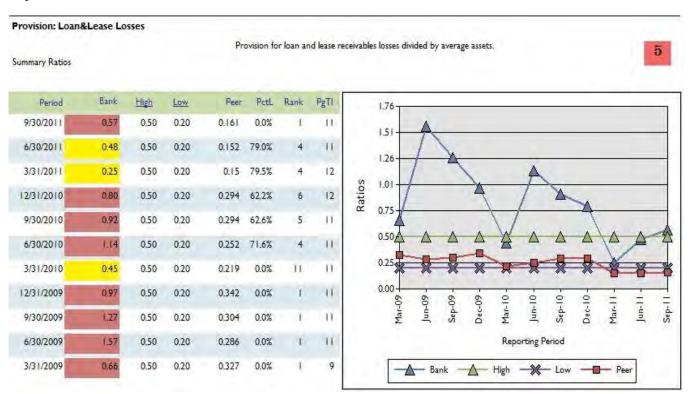
Period	Bank	<u>High</u>	Low	Peer	PctL	Rank	PgTI
9/30/2011	5.94	1.00	3.00	2.243	0.0%	1:	11
6/30/2011	6.22	1.00	3.00	2.268	0.0%	1	11
3/31/2011	6.21	1.00	3.00	2.456	0.0%	1	12
12/31/2010	4.70	1.00	3.00	2.295	0.0%	1	12
9/30/2010	4.38	1.00	3.00	2.28	0.0%	1	11
6/30/2010	4.92	1.00	3.00	2.053	0.0%	P	H
3/31/2010	4.04	1.00	3.00	1.848	99.6%	2	-11
12/31/2009	4.20	1.00	3.00	1.756	97.3%	2	11
9/30/2009	3.63	1.00	3.00	1.541	0.0%	1	11
6/30/2009	3.43	1.00	3.00	1.436	0.0%	į.	11
3/31/2009	2.72	1.00	3.00	1.378	96.9%	2	9



What's your Risk?

Provisions Loan Receivables / Ave Assets

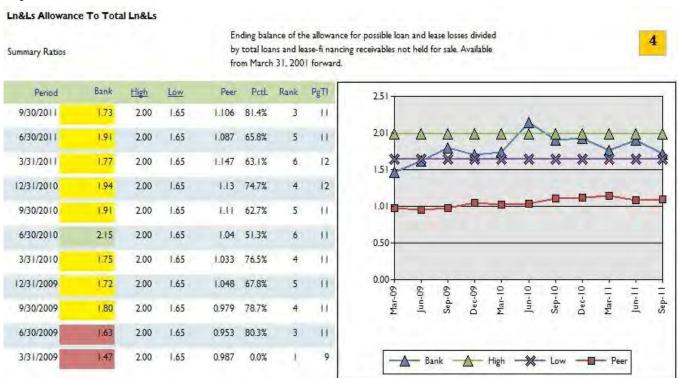
Probability Factor



What's your Risk?

Loan Loss Allowances / Total Loans

Probability Factor



What's your Risk?

Controls

Risk Mitigation / Readiness Factor



What's your Risk?

Credit Risk

Loan Portfolio

Risk Profile	Prior	Latest
Credit	11/2011 3.00	12/2011 3.24 10.0% 💞

This profile reflects the credit risk portfolio positions considering community and regional issues.

Risk Distribution Indicators	Prior		Latest			
Credit - Originations - Multi-Family	3.	.00	12/2011	3.75	20.0%	*
Credit - Originations - Commercial Real Estate (NF/NR)	3.	.00	12/2011	3.75	16.0%	**
Originations - Residential 1-4	3.	.00	12/2011	3.00	53.0%	**
Credit - Originations - Home Equity		.00	12/2011	2.75	4.0%	*
Credit - Originations - Construction	3.	00	12/2011	2.75	7.0%	*



What's your Risk?

Building Risk Appetite

Identity Peer Group Benchmarking / Savings > \$1B Similar Style and Region

D	Name	Reporting Period	3/31/2009	City	State	Average Assets
546003	BANKNEWPO	RT		NEWPORT	RI	1,069,500
1000100	1000100 EAST BOSTON SAVINGS BANK			BOSTON	MA	1,839,608
882701 FAIRFIELD COUNTY BANK		RIDGEFIELD	CT	1,537,054		
1009804	09804 FARMINGTON BANK		FARMINGTON	CT	1,486,857	
958204	958204 FIRST COUNTY BANK		STAMFORD	CT	1,304,380	
587800	587800 LIBERTY BANK		MIDDLETOWN	CT	3,338,992	
362007	NEWALLIANO	E BANK		NEW HAVEN	CT	8,352,942
249872	PARKVALESA	VINGS BANK		MONROEVILLE	PA	1,820,211
443205	UNION SAVIN	GS BANK		DANBURY	CT	2,433,535

What's your Risk?

Enterprise Risk / Performance Ratios

Baseline Key Ratios for using CAMELS Analysis

Capital

- Tier 1 Leverage Capital / Average Total Assets
- Tier 1 Risk-based Capital / Risk Weighted Assets
- Total Risk-based Capital / Risk weighted Assets
- Retained Earnings / Average Total Equity
- · Asset Growth Rate
- · Cash Dividend / Net Income

Earnings

- Net Income (After Tax) / Average Assets
- Net Interest Income (TE) / Average Earning Assets
- Total noninterest Expense / Average Assets

Asset Quality

- Loans and Leases
- Securities
- Real Estate
- Contingent Liabilities
- Special Mention
- Adversely Classified Items Coverage Ratio
- Total Adversely Classified Assets / Total Assets
- Past Due and Nonaccrual Loans and Leases / Gross Loan and Leases
- ALLL/ Total Loans and Leases

Liquidity

- Net non-core Funding Dependence
- Net Loans and Leases / Assets

What's your Risk?

Average Assets per Employee

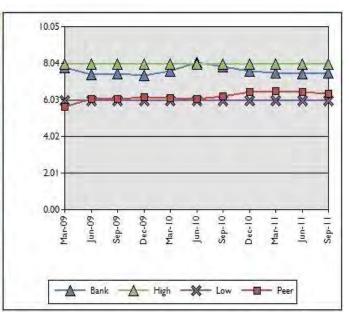
Institution versus Selected Peer Group

Assets Per Employee (\$Million)

Non Int Income, Expense, Yields

Average assets divided by the number of full-time equivalent employee on the payroll at the end of the period. Result is shown in millions of dollars. 2

Period	Bank	High	Low	Peer	PctL	Rank	PgTI
9/30/2011	7.51	8.00	6.00	6.358	0.0%	- 1	11
6/30/2011	7.47	8.00	6.00	6.459	0.0%	- 1	11
3/31/2011	7.52	8.00	6.00	6.526	0.0%	- 1	12
2/31/2010	7.59	8.00	6.00	6.482	0.0%	- 1	12
9/30/2010	7.87	8.00	6.00	6.241	0.0%	- 1	11
6/30/2010	8.07	8.00	6.00	6.087	0.0%	- 1	- 11
3/31/2010	7.61	8.00	6.00	6.143	0.0%	- 1	11
12/31/2009	7.35	8.00	6.00	6.156	0.0%	- 1	11
9/30/2009	7.45	8.00	6.00	6.092	0.0%	1	1
6/30/2009	7.43	8.00	6.00	6.085	0.0%	- 1	1
3/31/2009	7.82	8.00	6.00	5.646	0.0%	- 1	4



What's your Risk?

Total Equity Capital

Institution versus Selected Peer Group



What's your Risk?

Net Income

Institution versus Selected Peer Group

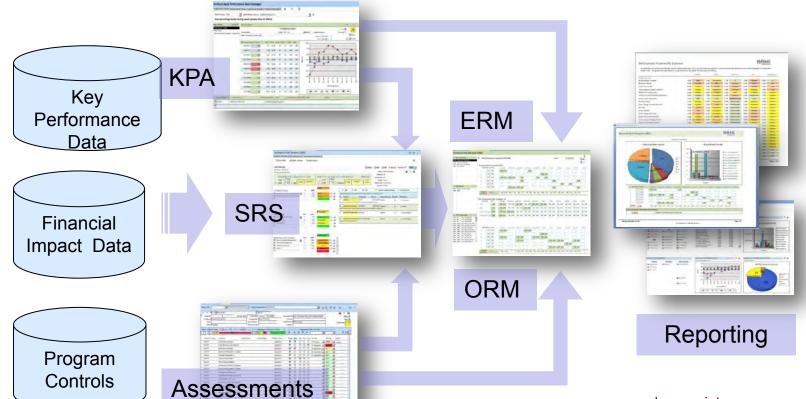




What's your Risk?

Putting It Together / Risk Analysis

Key Performance Indicators, Risk Thresholds and Metrics Management



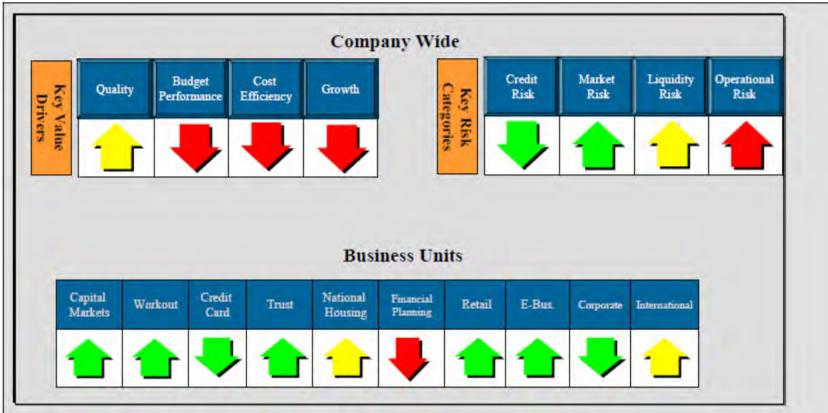
What's your Risk?

Phase III - Monitoring

- Ongoing Monitoring Update ERM Data to Provide Direction of Risk - Dynamic
- Separate Evaluations Provide Drilled Down Reporting at Functional Area Level
- Reporting Deficiencies Negative Trends are Identified to Help Develop Strategy to Achieve Established Objectives

What's your Risk?

Phase III



Source - COSO - Enterprise Risk Management Framework

What's your Risk?

Phase III

Benefits of identifying Direction of Risk

Modify Strategies

- Transfer the risk to another party
- Avoid the risk
- Reduce the negative effect of the risk
- Accept some or all of the consequences of a particular risk

Continuous evaluation of processes to identify efficiencies throughout product lines

Internal Environment Risk management philosophy Risk appetite P&G Associates What's your Risk?

Objective Setting - Risk Objectives · Inventory of tolerances · Units of measure opportunities Event Identification · Inventory of Risk Assessment · Inherent risks · Residual risks assessed assessed Risk Response Control Activities Outputs · Indicators · Reports

Monitoring

Information Flows Within Enterprise Risk Management

What's your Risk?

A Practical Approach to Enterprise Risk Management

Questions/Comments?

Amit Govil

732-651-1700

agovil@pgcpa.com

P&G Associates

www.pandgassociates.com

John McIsaac

(610) 291-5065

jmcisaac@rcn.com

McIsaac Risk Solutions LLC

www.mcisaacrisksolutions.com