



### **24th XBRL International Conference**

"Transparency: with Available, Reliable, Comparable and Re-usable Data"

March 20-22, 2012 Abu Dhabi, UAE

Banking Symposium Project RAIN for the Banking Sector in Bermuda John Dill Tuesday, 20 March 2012





## AGENDA

- Brief Overview of the Strategy
- Accomplishments to Date
- Scope
- Approach / Methods



# The 2008 - 2013 IT Strategy

### **Key Findings**

- Paper Management versus Paper Reduction
- Project Based Environment without a Project Execution Discipline
- Information sensitive environment without the structure to support it

### **Strategic AIM**

**3MA 2008** 

- The restructuring or redirecting of the Information Technology delivery towards a customer centric model.
- The fostering of best practice Information Technology governance and management approaches.
- The delivery of a flexible, "holistic" information management tool set that increases the overall efficiency and effectiveness.

### **Primary Initiatives**

- Reinvent the Infrastructure
- Develop the team
- Project RAIN
- \* ERIGA

Containment Positioning Advancement

### Vision: The seamless and efficient flow of information amongst all stakeholders within the regulatory supervisory process.

- Information reuse is maximized.
- Stakeholders are focused on their core competencies.
- Information is used to create value for all stakeholders

### Vision:

Information reuse is maximized.

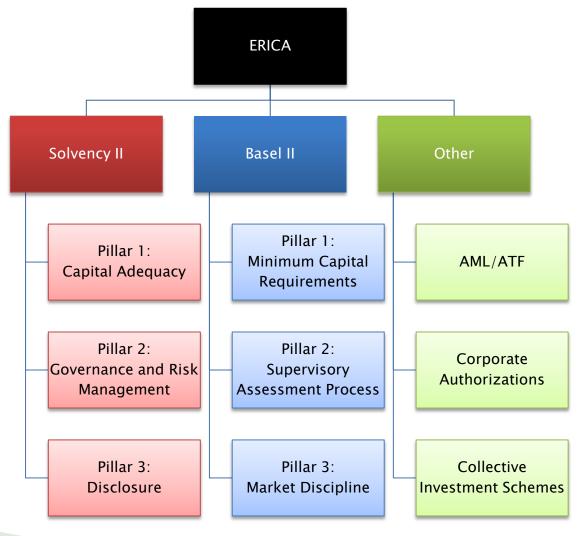
- Stakeholders are focused on their core competencies.
- Information is used to create value for all stakeholders

### **Critical Success Factors**

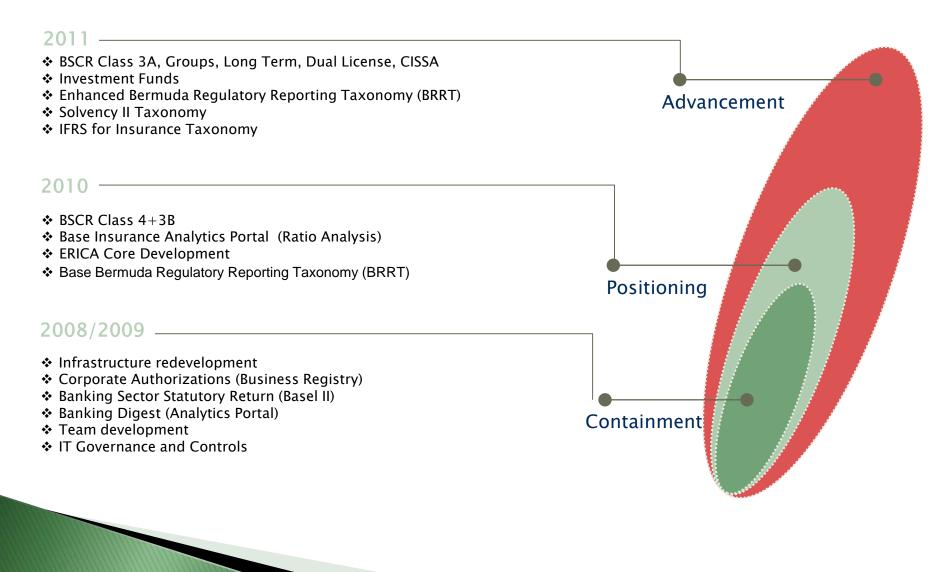
- Adequate human resources
- Adequate finances
- Executive support through the change cycle
- Effective IT Delivery

### 3

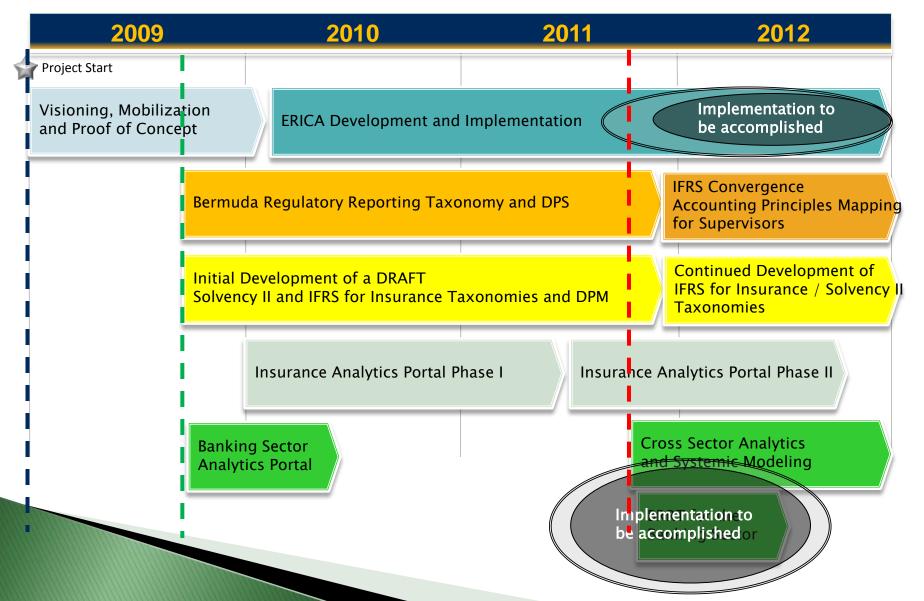
# **Project RAIN Scope**



# Accomplishments



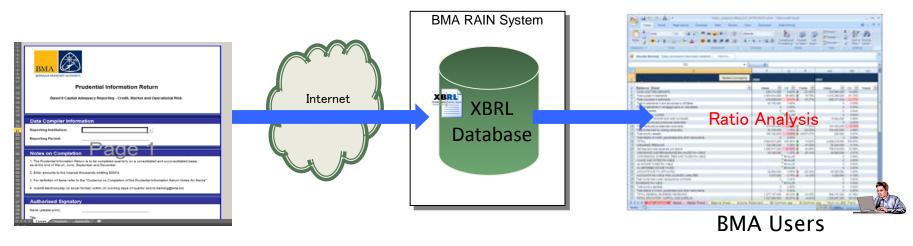
# **Project RAIN Current Status**

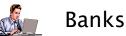


# Project RAIN - in Banking

E-filing

### **Enhanced Analytics**

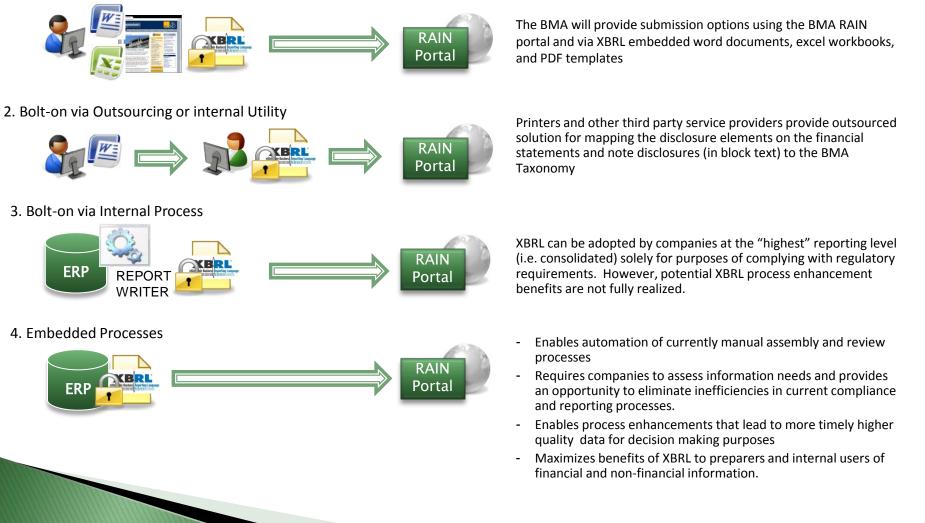




### Capital Adequacy – Credit, Market, Operational Risk Liquidity Returns FX Returns Large Exposure Returns

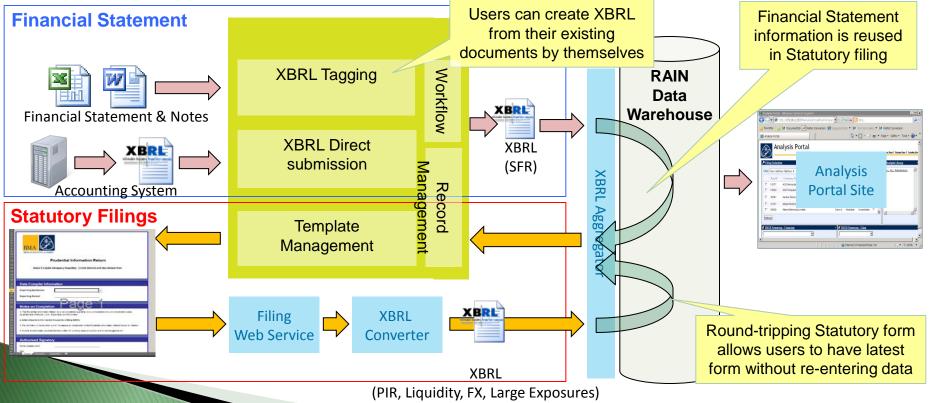
# **Current Adoption Approach**

1. BMA provided XBRL enabled excel, word, and PDF templates and Web Interface

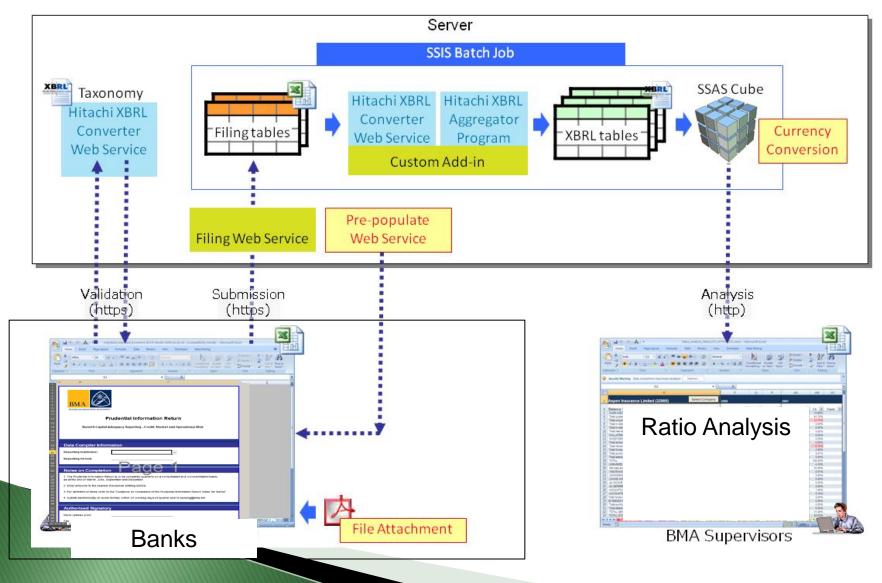


# System Architecture for Banking Data Collection & Analytics

- Capital Adequacy Credit, Market, Operational Risk
- Liquidity Returns
- FX Returns
- Large Exposure Returns

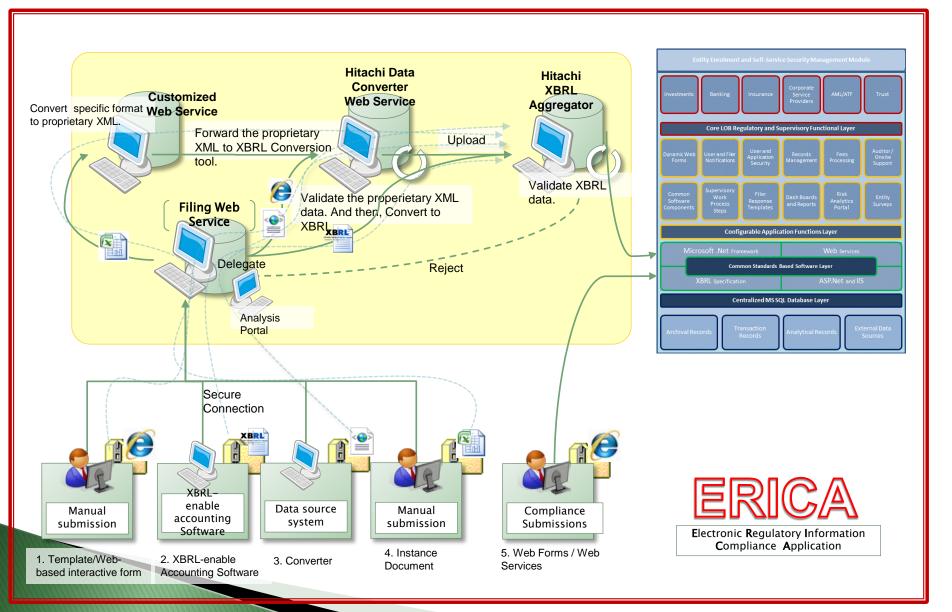


## Banking Sector Reporting Sub-system

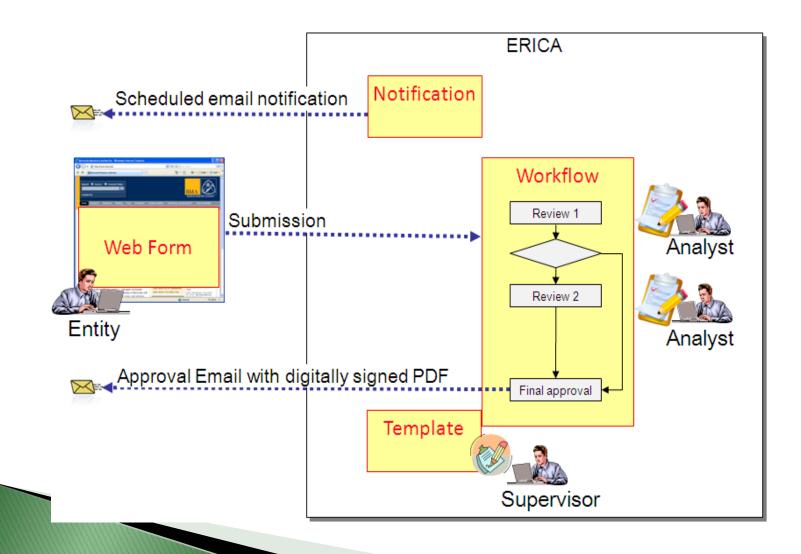


### SFR Reporting Sub-system 1. Statutory Financial Statements and Risk report STATUS: Uploaded 2. Notes to Statutory Financial Statements Notes Tagging STATUS: Uploaded 3. Attach Files (SFR Attachments) 4. Submit XBRL Tagging Import RAIN Accounting System XBRL Aggregator Data 2.0- arter Analysis Portal Tag warehouse XBRL Analysis \* Review Portal Site XBRL (SFR) Validate **Financial Statement** Signature Publish Notes

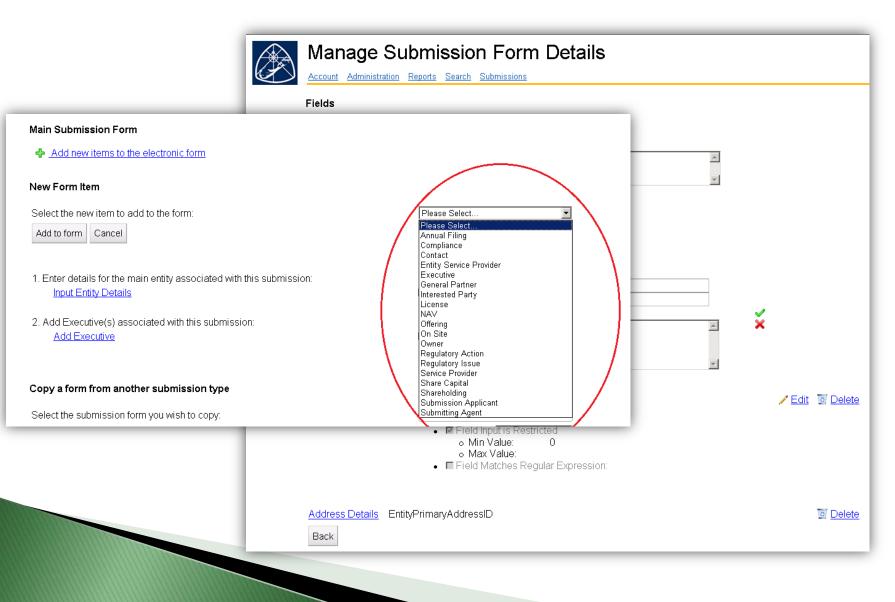
## **ERICA Big Picture**



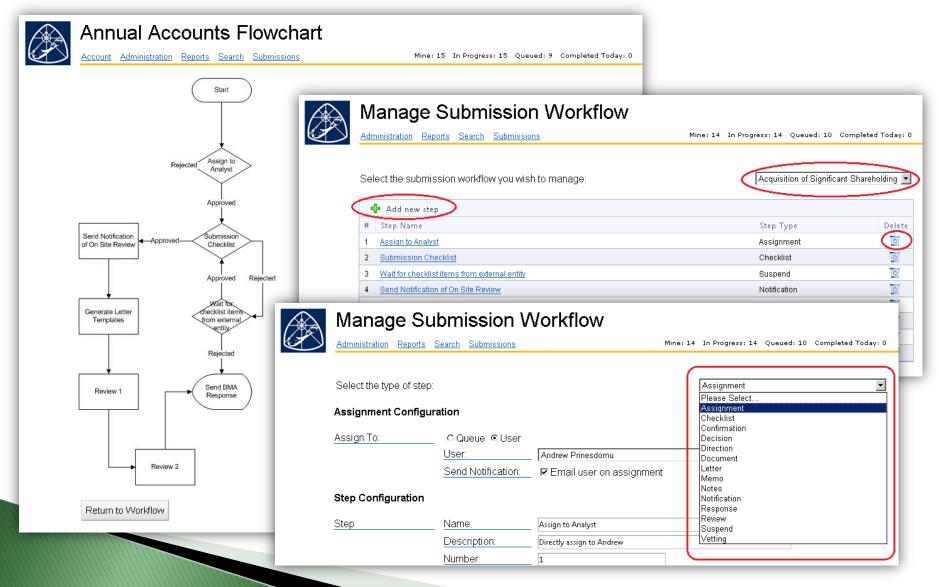
## Four Configurable Areas in ERICA



# **Dynamic Form Configuration**

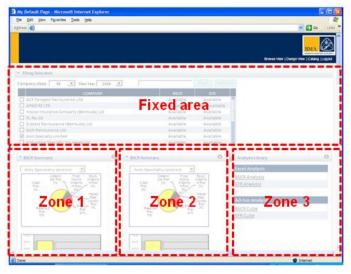


## **Dynamic Workflow Configuration**

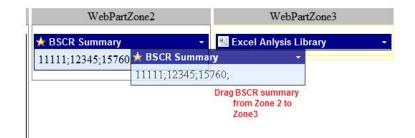


## Configurable Analysis Portal Framework

### **Browse View**



**Design View** 



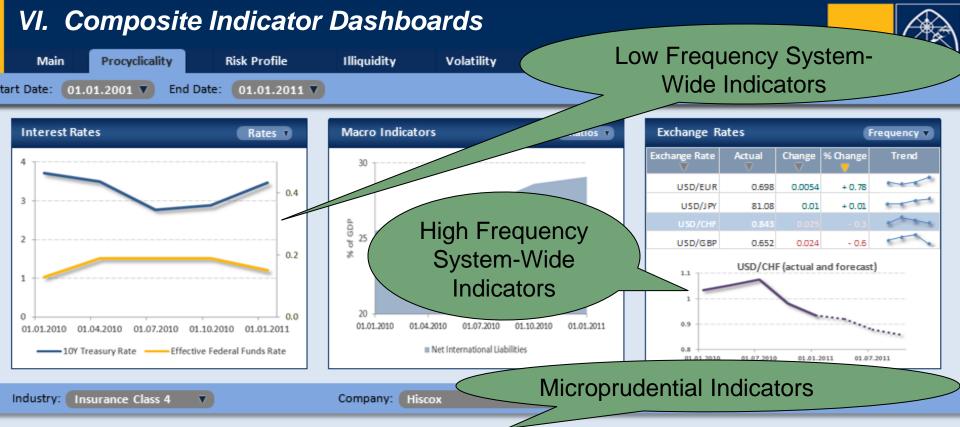
### Catalog



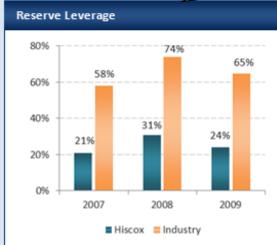
-based rvision	•Where exactly is the problem?	<ul> <li>Why is this happening?</li> <li>What actions are needed?</li> </ul>	What if these trends continue?     LEVEL 3     Rank Companies By Vulnerability
Value		LEVEL 2 Group Companies According To Risk Profile (	<ul> <li>Market monitoring</li> <li>Extreme value modeling</li> <li>Scenario analysis &amp; stress</li> </ul>
ng Business	LEVEL 1 Rank Companies By Loss Severity	<ul> <li>Statistical Analysis</li> <li>Risk sensitivity &amp; flagging</li> <li>Alerts/EWS</li> </ul>	<ul> <li>testing</li> <li>Systemic risk linkages</li> <li>Access external data bases</li> <li>Macro risk assessment</li> </ul>
Increasing	<ul> <li>Query Drill Down</li> <li>Ad Hoc Reports</li> <li>Standard Reports</li> <li>Access data in primary systems/spreadsheets</li> <li>Credit ratings</li> <li>Root Cause Analysis</li> </ul>	<ul> <li>Market cycles</li> <li>Predictive modeling</li> <li>Dispatch aggregated risk profile reports by exposure on demand</li> <li>Micro risk assessment</li> <li>Sector risk profile</li> </ul>	
	Risk-Based Analysis	1	Risk Drivers

Risk-b super

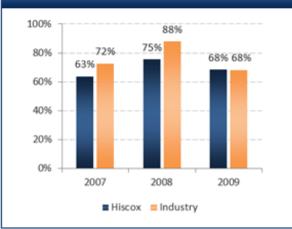
What will happen next?



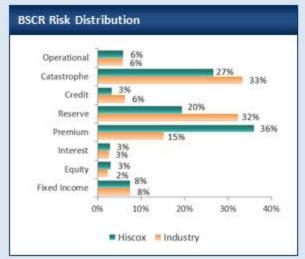


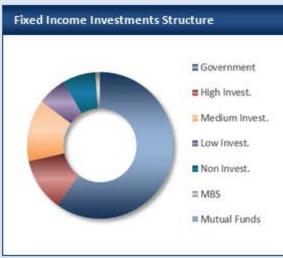


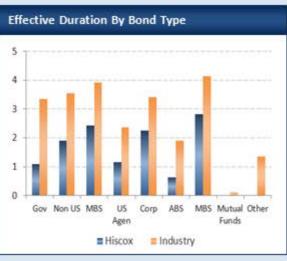
### Combined (Loss & Expenses) Ratio





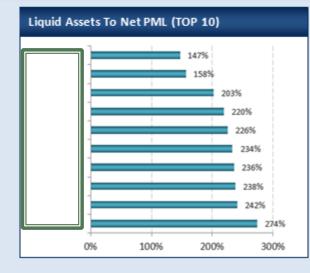




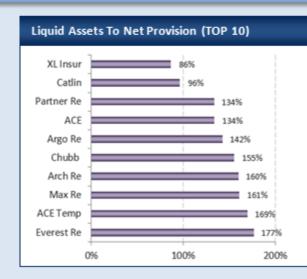




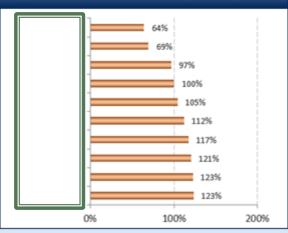
Industry: Insurance Class 4

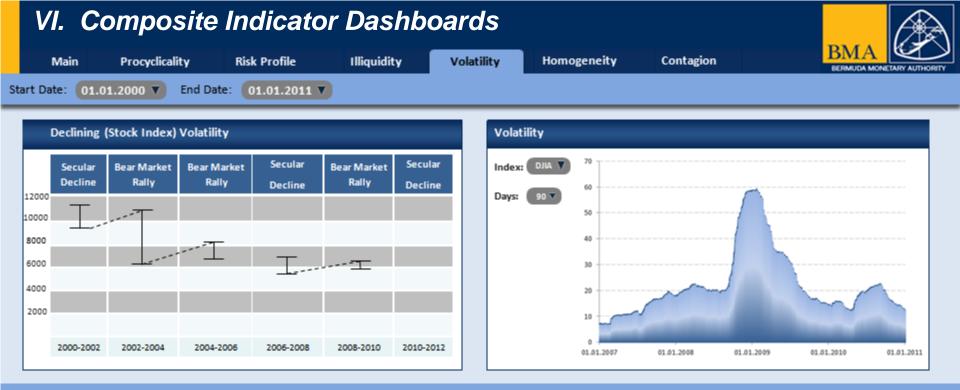


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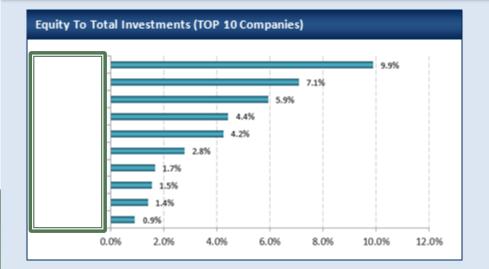


#### Liquid Assets To Total Liabilities (TOP 10)





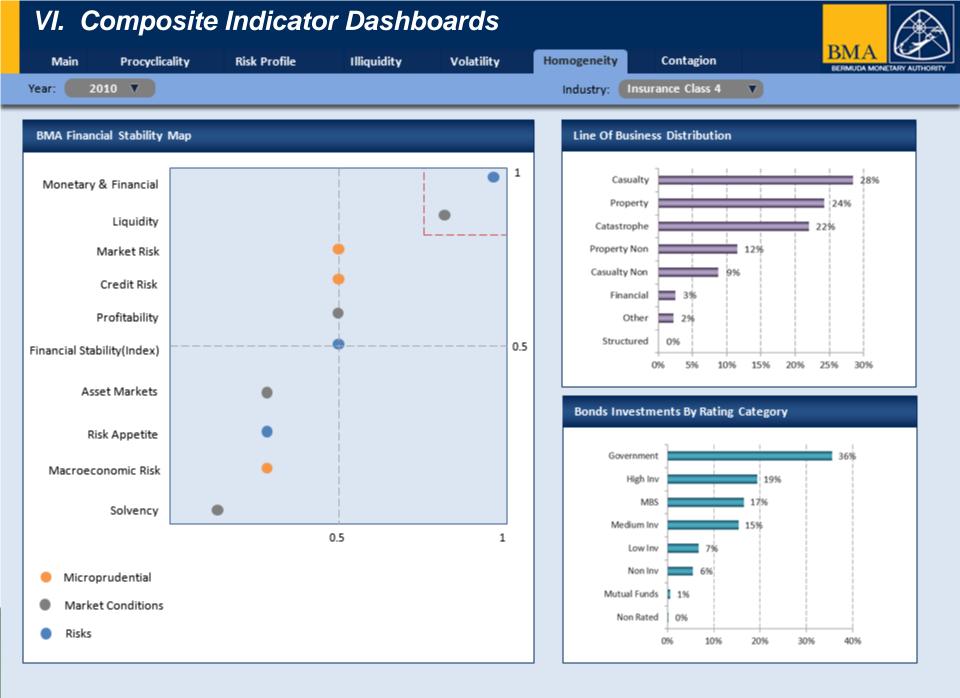
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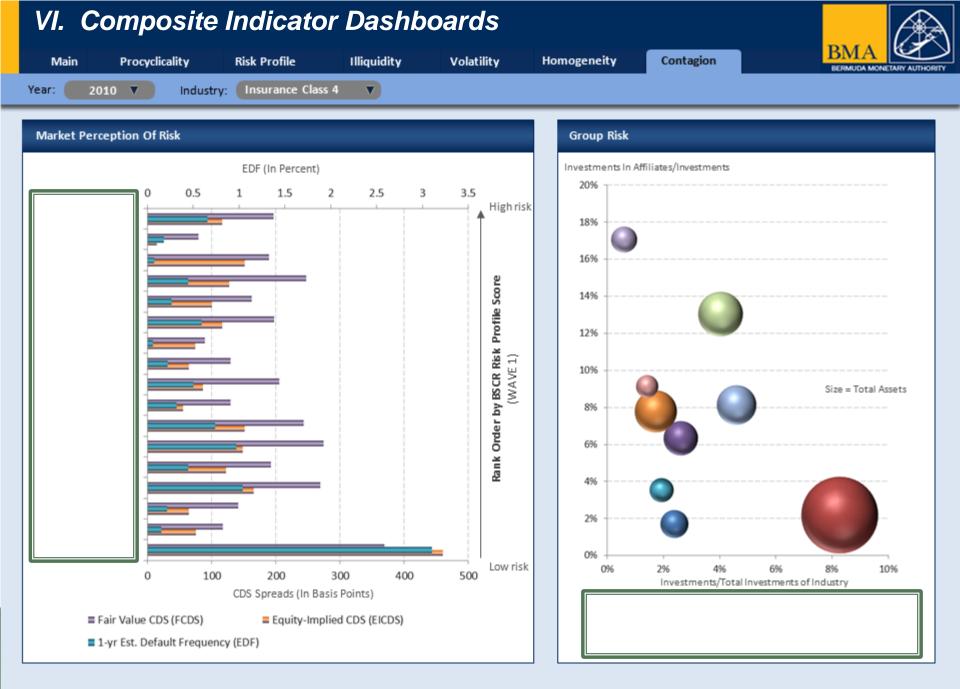


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## **Risk Based Analysis**



### V. Connecting The Dots (Scenarios)

	Income	Assets	Liabilities
1. Procyclicality	<ul> <li>Under pricing (premiums)</li> <li>Aggressive underwriting strategy (Risk appetite)</li> <li>Timely market information (EWS)</li> </ul>	<ul> <li>Higher risk investment strategies</li> <li>Poor risk appetite decisions</li> <li>Fall in asset values</li> <li>Rates of return</li> </ul>	• Under reserving
2. Risk Profile Mismatch/Misprici ng	<ul> <li>Underwriting profitability</li> <li>Ineffective price discrimination (poor market segmentation)</li> <li>Lumpy risk profile</li> <li>Poor underwriting strategy</li> </ul>	<ul> <li>Asset/liability exposure</li> <li>Investments underperform</li> <li>Failure to correlate risk profile of asset and liabilities (asset value falls, liabilities increase)</li> <li>ALM mismatch exposes firm to market swings</li> </ul>	<ul> <li>Adverse claims experience</li> <li>Inaccurate loss evaluation</li> <li>Outstanding claims ratio s not inline with peers.</li> </ul>
3. Illiquidity	• Underwriting losses (premiums set too low) erode solvency margin	<ul><li>Illiquid investments</li><li>Fixed investment value</li></ul>	<ul> <li>Insufficient or illiquid technical provisions</li> </ul>
4. Volatility	<ul> <li>Interest rate fluctuation</li> </ul>	<ul> <li>Undervalued investments/Losses</li> </ul>	<ul> <li>Undervalued technical provisions</li> <li>Double gearing</li> </ul>
5. Homogeneity	<ul> <li>Poor underwriting judgment</li> <li>Credit quality of guarantees</li> </ul>	<ul> <li>Herd behavior</li> <li>Concentrations (LOB, risk classes, geo, asset classes)</li> <li>Diversification</li> </ul>	<ul> <li>Funding source diversity=</li> </ul>
6. Contagion/ Spillovers/Linkages	<ul> <li>Management fail to make the appropriate risk aggregations</li> <li>Financial result volatility</li> </ul>	<ul> <li>Falling asset prices</li> <li>Common mode failure/catastrophe worse case loss (worst event in recent memory)</li> </ul>	<ul> <li>Unexpected gross underwriting loss</li> <li>Contingent off-balance sheet items</li> </ul>

## Discussion

