

**STANDARD  
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# Enterprise Risk Management: S&P's new approach

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# Winds of Change for Insurers

- The nineties: expansion financed through capital market bubbles
- The catastrophes and the capital market crisis: the importance of risk bearing capital analysis
- The new century: consolidation and refocusing
- Solvency II: new challenges for management on integrated risk management, value based management, transparency, new products

*Insurers are facing a new risk & regulatory environment... and need to re-examine old assumptions about risks, cost of risks, and risk adjusted capital allocation*

***Enterprise Risk Management is the answer***

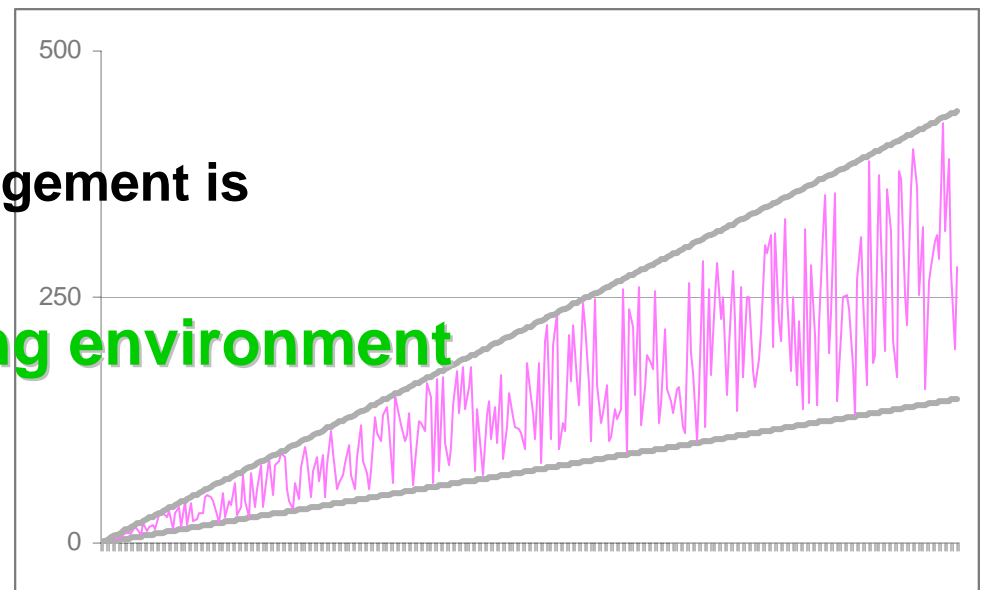


# What is Good Risk Management?

- Identifying and **monitoring significant risks**
- Setting **risk limits** for each risk that reflect the company risk tolerances, competencies and resources
- Operating **risk management programs** that will maintain the level of risk retained by the company within the risk limits.
- Execute the risk management programs to **limit losses** to within the company risk tolerances

The product of Good Risk Management is

**a controlled risk taking environment**





## Good ERM Programs

- Practicing Good Risk Management across ALL of the significant risks of the Enterprise
- Consistently across the risks
- Consistently with the fundamental objectives of the enterprise



## Excellent ERM Programs

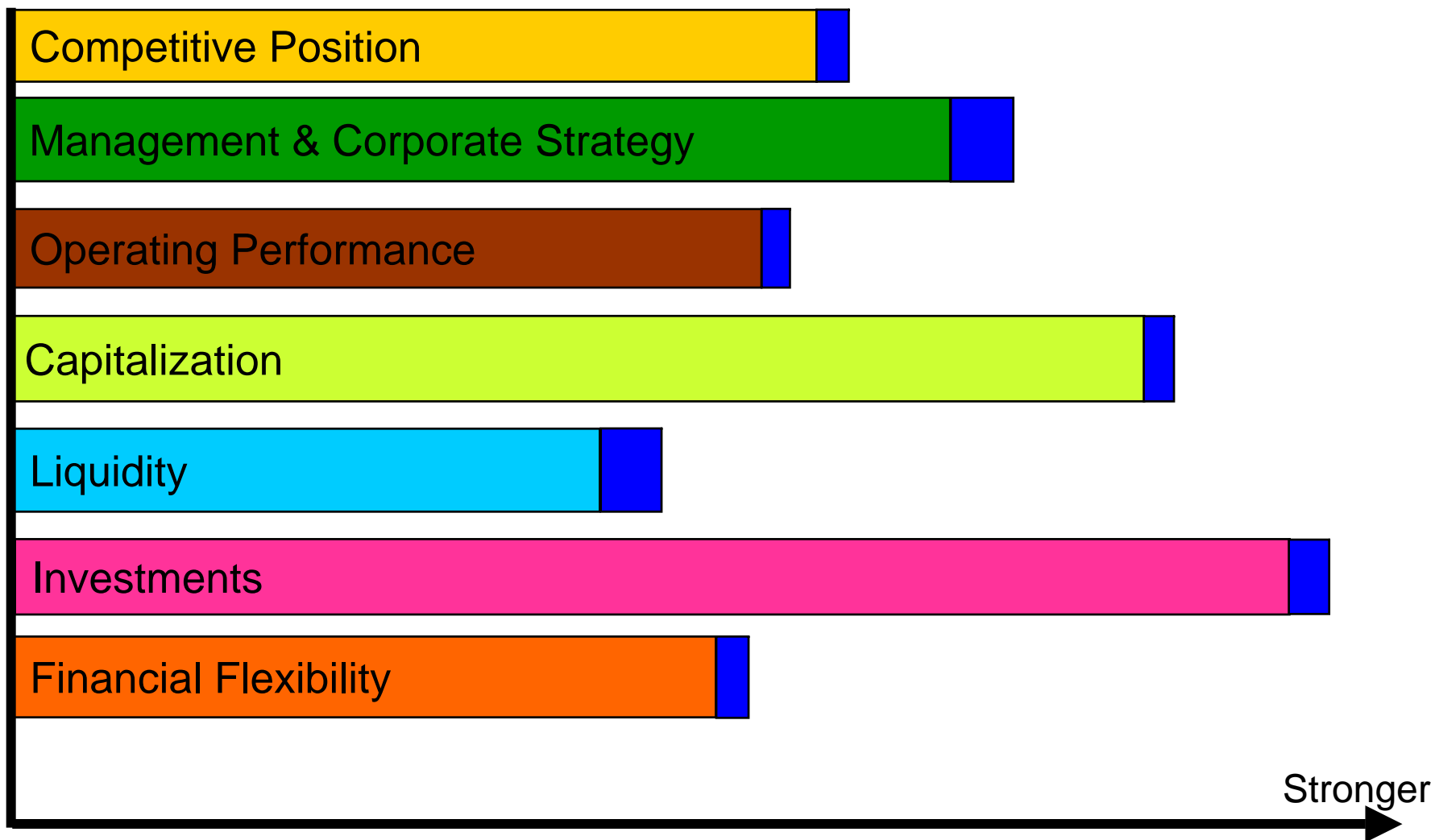
All of the characteristics of Good ERM Programs plus...

- Developing and maintaining systems to periodically measure the capital needed to support the retained risks of the company
- Reflecting the risk capital in:
  - strategic decision making,
  - product design and pricing,
  - strategic and tactical investment selection
  - financial performance evaluation

*The product of excellent ERM is the optimization of enterprise risk adjusted return*

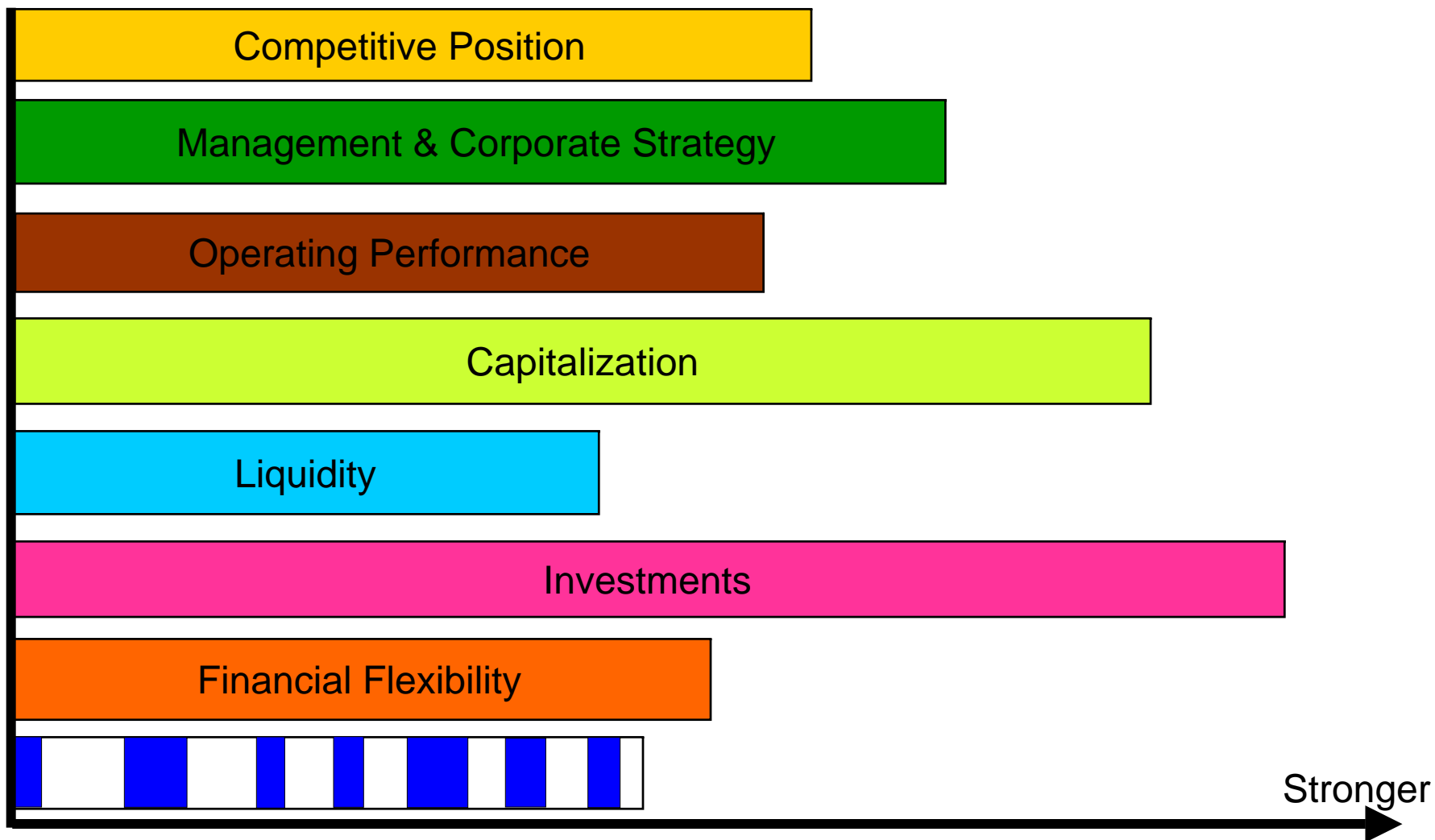


# ERM within the S&P Rating Profile





# ERM within the S&P Rating Profile



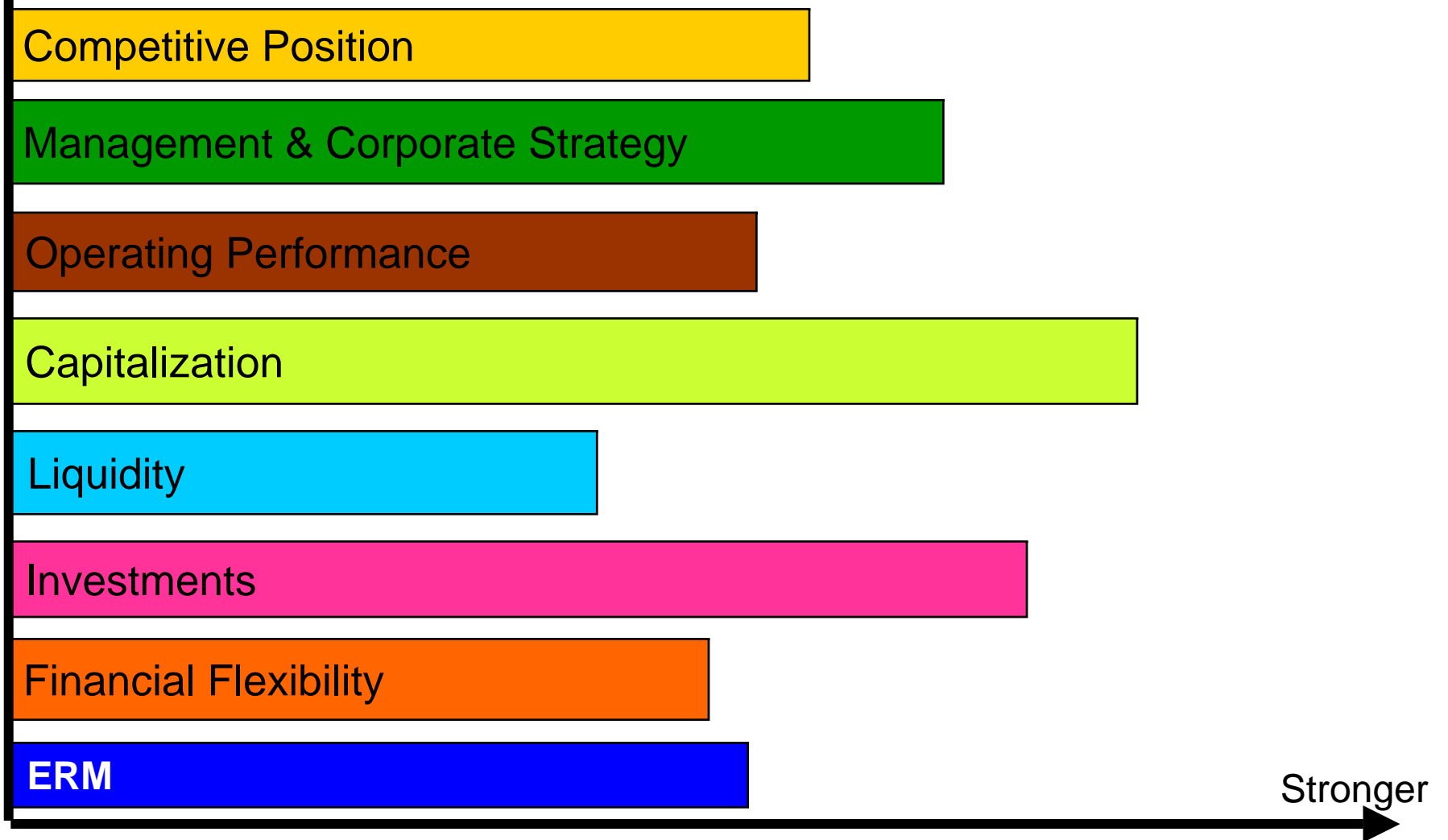
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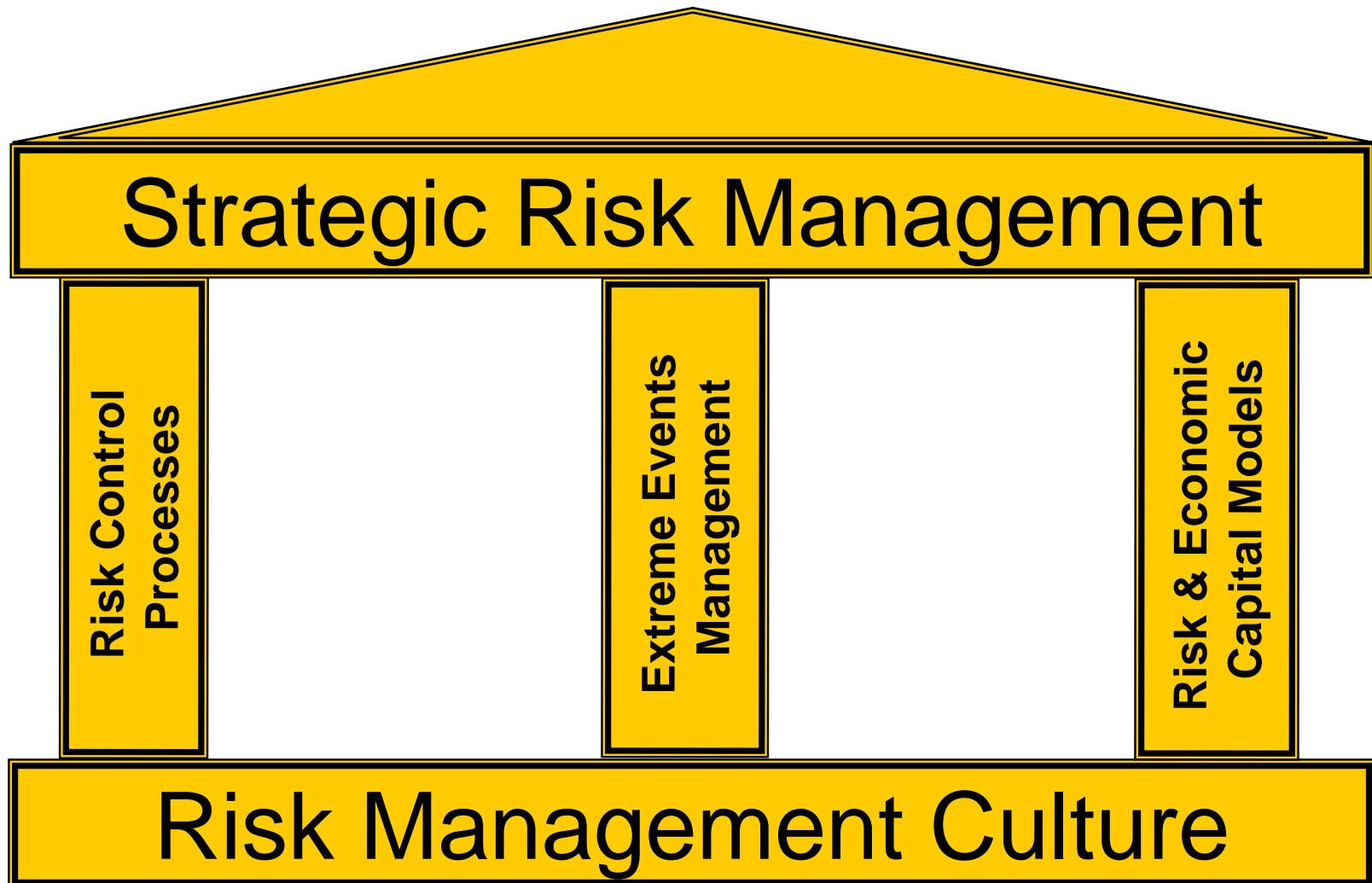
# ERM within the S&P Rating Profile







# S&P's Evaluation of ERM





# Risk Management Culture

- **Reflects the Importance within the company of**
  - Financial Strength
  - Exposure to risk of insolvency
  - Exposure to earnings Volatility
- **Is the Awareness of risk and importance of risk management at all levels of the company**
- **Results in Embedding risk management concepts into every business decision**
- **Risk Management is integral to Corporate Management not a separate process**



# Risk Management Culture

***What will we look for?***

- **Corporate commitment to Risk Management**
- **Highly qualified risk management staff**
- **Regular communication with board on risks positions and risk management programs**
- **Clear and wide known risk management policies and procedures**
- **Manager's compensation is linked to the achievement of risk management objectives**
- **Company's governance structure supports effective risk management**
- **Risk measurement and monitoring is independent from risk taking and management**



# Risk Control Process





# Risk Control Process

***What will we look for?***

- **Quality of risk identification**
- **Quality of risk monitoring**
- **Standards and limits for retained risks**
- **Enforcement of limits**
- **Effectiveness and execution of risk management programs**



# Extreme Risks Management

***What will we look for?***

## ➤ **Process for Anticipating Extreme Risks**

- Development of Extreme Risk Scenarios
  - Terrorism, Natural Disasters, Pandemic, Man-made Disasters, Stock Market Crash, Banking Crisis, Interest Rate Spike, Systemic liquidity Crisis, hyperinflation, negative interest rates, significant negative economic growth, Stagflation, Price deflation, currency exchange rate crash
  - To the extent that the risk are not core (catastrophe risk coverage)

## ➤ **Process for Envisioning Significance of Extreme Risks**

- Stress Testing
- Liquidity Risk Analysis



# Extreme Risks Management

- **Process for Preparing Response to Extreme Risk Situations**
  - Liquidity Crisis planning
  - Contingency Planning
- **Execution of Company in Extreme Risk Situation**
- **Company learning process from Extreme Risk Situation**
- **Environmental Scanning**
  - to provide advance signals of potential Crisis developments



# Risk & Economic Capital Models

## ➤ Primary Risk Metrics

- Appropriateness of Assumptions, Methods and Models
- Comprehensiveness of Models – Risks not covered by models
- Effective Usage of Metrics – Acting on information – timing & magnitude of response
- Evaluation of risk at alternate time intervals & probabilities
- Robust process for Validating Metrics

## ➤ Secondary Risk Metrics

- Determination & Usage of sensitivity metrics
- Validation to Primary measures

## ➤ Adequacy of Modeling Infrastructure

- to deliver information in actionable timeframe
- Timely process for updating assumptions
- Controlled process for updating Data

## ➤ Aggregation of Risks

- Correlations should be based on tails not total distribution





# Strategic Risk Management

## *What will we look for?*

### ➤ **Product Development and Pricing**

- Role of risk and reward
- Treatment of Risk Capital in Product Profit Analysis
- Treatment of Aggregation effects in developing risk capital allocation to product
- Treatment of risks other than through capital impact

### ➤ **Renewal product rate setting process – role of risk and reward**

### ➤ **Strategic Asset Allocation Process – role of risk and reward**

### ➤ **Tactical Asset Selection Process – role of risk and reward**

- Asset Purchases and sales

### ➤ **Capital Budgeting Process**

### ➤ **Risk Adjusted Performance Measures**



## ERM Quality - Excellent

- **Extremely strong capabilities to consistently –**  
**identify, measure, and manage risk exposures and losses** (*within the insurer's pre-determined tolerance guidelines*)
- **Evidence of the enterprise's consistent practice of optimizing risk adjusted returns is strong.**
- **Risk and Risk Management are always important considerations**
- **Risk Management framework in place for several years**
  - **Has successfully limited losses in adverse market situation**



## ERM Quality - Strong

- Strong capabilities to consistently –  
identify, measure, and manage **risk exposures and losses** (*within the insurer's pre-determined tolerance guidelines*)
- Evidence of the enterprise's practice of optimizing risk adjusted returns (*but not as well developed as a firm with Excellent ERM*)  
Somewhat more likely to experience unexpected losses, *outside of tolerance level*
- Risk and Risk Management are usually important considerations
- Risk Management framework in place for several years
  - Has moderated losses in adverse market situation



## ERM Quality - Adequate

### ➤ Capabilities to –

- measure and manage most major risk exposures and losses, *but process has not been comprehensively extended to all significant risks*
- Insurer loss/risk tolerance guidelines are less developed.
- Execution of its risk management program is sufficient (*but less comprehensive than strong and excellent ERM practices*)
- Unexpected losses more likely to occur *especially in areas outside scope of existing risk management*
- Risk and Risk Management are often important considerations
- Risk Management framework in place for several years



## ERM Quality - Weak

- Limited capabilities to consistently –
  - identify, measure, and manage risk exposures, and limit losses
- Sporadic implementation of risk management program
- Losses not expected to be limited *in accordance with a set of pre-determined risk/loss tolerance guidelines.*
- Risk and Risk Management are sometimes considered
- Risk Management framework
  - Not adopted or
  - Solely satisfy regulatory minimums or
  - Was adopted very recently



## Conclusions & Implementation

- **Taking risks is a fundamental part of business definition for insurance companies**
- **All companies need to have capabilities to limit their risk exposures and losses to within appropriate tolerances**

**But...**

- **Importance of ERM in the company rating is based on:**
  - Capacity to absorb losses
  - Complexity of risks
- **A insurer that has unusual or complex risks**
  - ERM is very important
- **A insurer that takes few unusual or complex risks**
  - ERM is not as important



# Conclusions & Implementation

## Phase 1:

**“Evaluating The Enterprise Risk Management Practices of Insurance Companies”, published 17 October 2005**

## Phase 2:

**Detailed analysis including model evaluation: new criteria in 2006**



# Questions?

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