

COSO Enterprise Risk Management (ERM)

COSO ERM

COSO ERM To improve organizational performance & Governance

COSO Internal Control

COSO ERM

• Definition of Enterprise Risk Management (ERM)

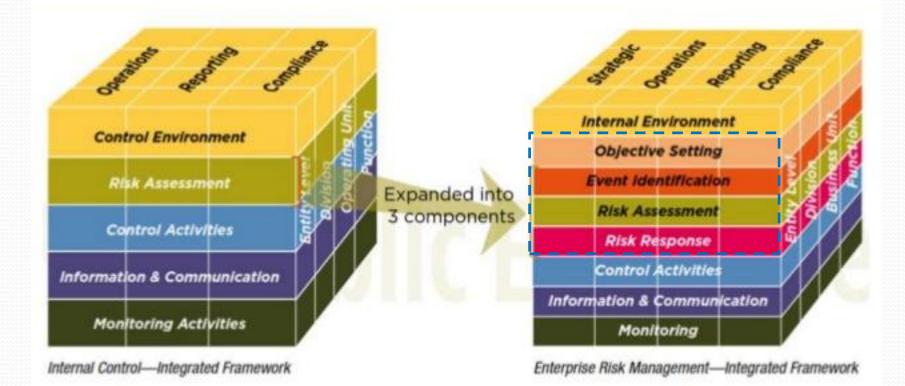
→ A process applied in strategy-setting and across the enterprise, designed to identify potential events that may affect the entity, and manage risk to be within its risk appetite, to provide reasonable assurance regarding the achievement of entity objectives

From COSO to COSO ERM

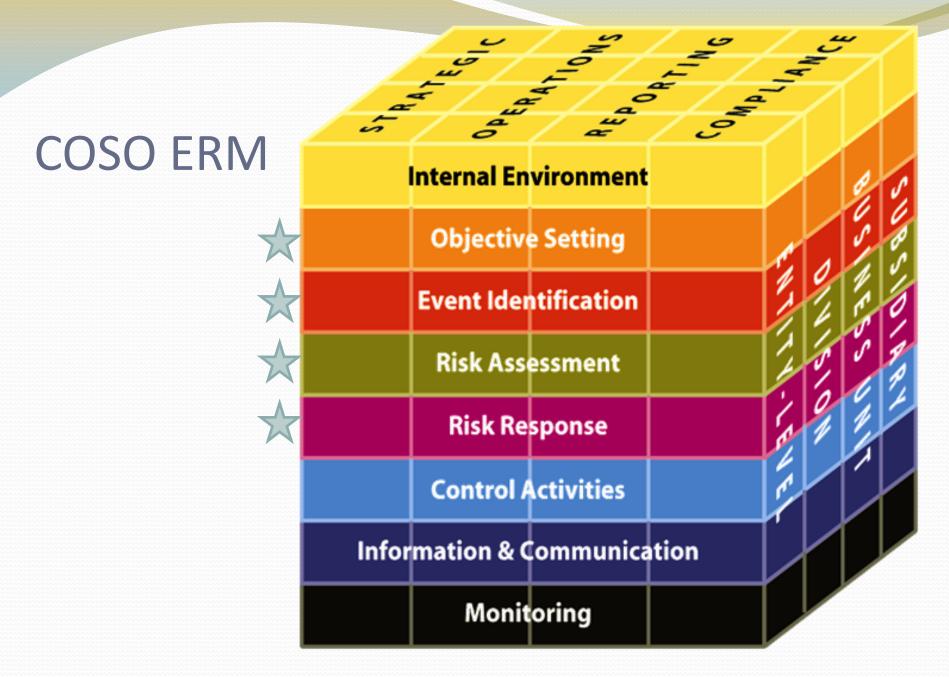
- Additional components
 - (Strategic) Objective Setting (2nd)
 - Event Identification (3rd)
 - Risk Response (5th)

Note: Risk Assessment → Risk Assessment Risk Response

COSO IC vs. COSO ERM



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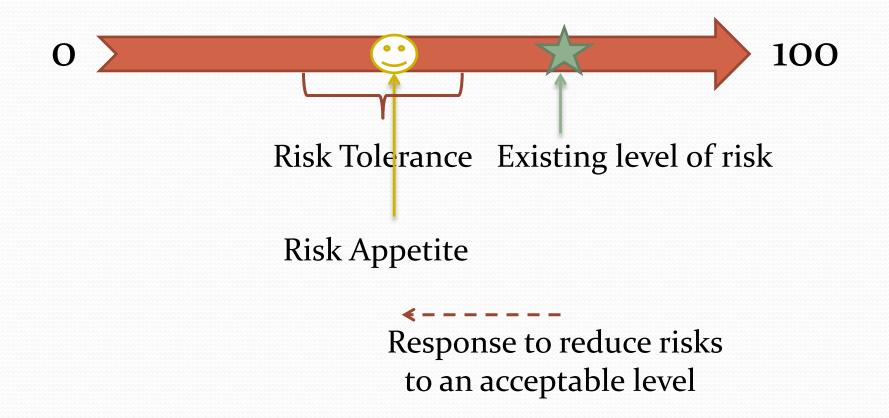


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Objective Setting

- Strategic and related objectives are established.
- Risk Appetite and Risk Tolerances are considered.
 - Risk Appetite → The level of risk an organization is prepared to accept.
 - Risk Tolerance → Acceptable level of variation of risk an entity is willing to accept .

Risk Appetite & Risk Tolerance



Event Identification

 Consider a range of potential events from both internal and external sources without focusing on positive (opportunity) or negative (risk) impacts

• <u>Ex</u>.

Potential Event	Opportunity	Risk
1. AEC (External)	Larger markets More customers	More competitors Language
2. New accounting software (Internal)	More efficient in processing accounting information	Lack of technical skill leading to unintentional mistakes

Event Identification (cont.)

External Events

- Economic factors
- \rightarrow Unemployment, Competition
- Environmental factors
- \rightarrow Natural disaster
- Political factors
- → Public policy, Government change
- ✓ Social factors
- → Demographics, Consumer behavior
- ✓ Technological factors
- \rightarrow E-Commerce

Internal Events

- ✓ Infrastructure factors
- → Access to capital/fund
- ✓ Personnel factors
- → Competency, Fraud
- ✓ Process factors
- \rightarrow Capacity, Supplier dependency
- ✓ Technological factors
- \rightarrow System selection, Maintenance

Risk Assessment

- More elaborate than that in COSO Internal Control
- Consider "Inherent risk" and "Residual Risk"



Consider 1) Likelihood of occurrence

 Severity of Impact
 Velocity of Impact
 Persistence of Impact
 Persistence of Impact

Risk Response

- Target: To select possible alternatives for reducing risk to an acceptable level
- Solutions:
 - Risk Avoidance → avoid to confront risks
 - Risk Acceptance → accept risk when it is at an acceptable level
 - Risk Sharing → Share risk to others (Insurance, Hedging, Outsourcing)
 - Risk Reduction → Reduce risk through internal control system

Limitations

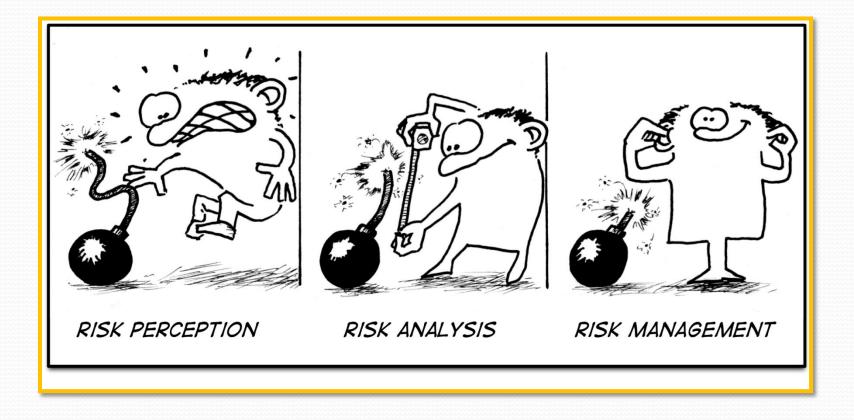
- Human judgment in decision making can be faulty.
- Costs and benefits
- Human failures such as errors or mistakes
- Controls can be circumvented by collusion of two or more.
- Management has the ability to override enterprise risk management decisions.

Summary: Differences

COSO Internal Control	COSO ERM
 Objectives: 1) Operations 2) Reporting 3) Compliance → focused only on "Internal factors" 	• Adding "Strategic objective" which depends on "External factors"
 Risk response → mostly by trying to reduce risk (Risk Reduction) 	 Risk response → 4 methods: 1) Risk Avoidance 2) Risk Acceptance 3) Risk Sharing

4) Risk Reduction

Just for fun



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