

Preface and History

LogicManager's Risk Maturity Model (RMM) since 2006 has become the global standard for benchmarking the effectiveness of Enterprise Risk Management and is on the forefront of evidence-based research on corporate governance. In 2008, the RMM maturity index scores were the first to prove a direct correlation between the maturity of an ERM Program's infrastructure and higher corporate credit ratings. In 2014, The Journal of Risk and Insurance (JRI) published the research findings of our partnership with Queens University that an organization's index scores on the Risk Maturity Model are directly correlated to a 25% market value premium. In 2023, LogicManager has partnered with the University of Pennsylvania's Wharton School to research the correlation between risk maturity and the success of ESG programs.

Read more about LogicManager's Risk Maturity Model (RMM).

Risk Maturity Model (RMM) for Enterprise Risk Management

Overview

Smart, dedicated workers aren't enough. The Software Engineering Institute (SEI) at Carnegie-Mellon University, which pioneered the Maturity Model concept in the mid-1980s, said, "Everyone realizes the importance of having a motivated, quality work force and the latest technology, but even the finest people can't perform at their best when the process is not understood or operating at its best." Enterprise Risk Management (ERM) is a process. What is lacking, is a tool for objective and consistent measurement of its effectiveness. The ERM Development Committee and LogicManager stepped in to develop this missing link -- the Risk Maturity Model. A benchmarking framework designed to create clear, precise crite-ria, Risk Maturity Model (RMM) facilitates thorough planning and communication and guides monitoring and control.

The role of the Risk Maturity Model for Enterprise Risk Management

If Enterprise Risk Management is the weapon, the Risk Maturity Model (RMM) is the plan of attack. The RMM provides ERM practi-tioners with a way to combine all the best ele-ments from the most important models and stan-dards. This applies to all industries and across the risk spectrum. This RMM is a ladder of progressively organized and mature performance levels, a way to evaluate and set goals.

Focus the risk picture

While the risk officer ranks fill up rapidly, most learn on the job. They come to risk management with a variety of backgrounds -- legal, finance, internal audit, risk management, compliance or IT. Their views tend to align with their backgrounds and responsibilities. Rigorous controls might take precedence for the internal auditor, for instance, while regulations might be a priority for the compliance team. Security might be key for the information technology group and brand and company reputation could be a top goal for marketing.

The smart risk officer recognizes the importance of all of those, but doesn't stop there. The team must also be led to balanced, big-picture decisions. The RMM crystallizes the risk pic-ture by analyzing best practices and setting goals. This lets the risk officer and stakeholders build consensus about priorities and tactics. A common approach ensures results – efficiencies

in the short term, reduced uncertainty in routine decisions in the mid-term and, in the long term, a competitive advantage gained by making big bets on emerging trends. For both veteran risk managers and novices, RMM is an indis-pensable tool that provides a game plan for pro-gram development and enhances risk manage-ment. And it also speeds the delivery of a rock-solid ERM Process, building a foundation for improving programs, strengthening objectivity and prioritizing resources for allocation.

Benefits of using a Maturity Model

The Maturity Model approach is a method that's proven across a variety of industries. Based on extensive case studies in which a Maturity Model approach was used over the past 25 years, the evidence shows that with each step up in maturity level, organizations get concrete results. A Maturity Model is a structured way of highlighting aspects of effective ERM Processes.

Benefits for Practitioners

- · Build consensus and establish milestones.
- Benchmarking from best practices.
- Communicate clearly to the board, regulators, rating agencies, executive management, process owners, support functions (back office groups such as internal audit, IT and compliance), etc.

Benefits for ERM stakeholders

- Streamline the ERM Process.
- Eliminate duplication of efforts and connect support functions with process owners.
- Measure ERM value, based on priorities.
- Create a shared language and vision.

Benefits for Organizations

- Tackle inadequately addressed risks and opportunities.
- Resolve business process inefficiencies.
- Build a repeatable and scalable process for better decision making

Reduce costs

Understanding a risk's root cause is much cheaper than simply treating the symptom. ERM uncovers and attacks the root cause. Example: a global energy company tried to save 10 percent on maintenance costs, but

pipeline leaks cost them billions of dollars in clean-up costs and damage to their reputation. ERM connects the root cause to the ultimate cost and improves decision making at a fraction of the cost.

Increase top line revenue

A compliance issue can lead to rethinking business strategy and finding an opportunity to generate revenue. Example: a bank responds to a government regulation requiring it to switch from paper checks to digital images. It uses ERM to uncover a strategy to acquire customers nationally, rather than regionally, by expanding where it once had no infrastructure to transport paper checks. ERM helps managers think strategically.

Reduce variance on plan achievement reporting. Planning is essential to success and allocating resources. Uncertainty in planning leads to bad decisions. Volatility of earnings effects stock prices because it undermines confidence in the planning cycle. ERM uncovers the uncertainty

and helps managers plan better, creating more reliable results. Example: Bad weather doesn't make workers late, but ignoring the

weather forecast and not leaving extra time for inevitable delays does. ERM is about using the weather report that lets workers understand the likelihood that a storm will occur. The impact is the size of the storm and the controls' effectiveness are the alternate routes to work.

To determine how these benefits apply to your organization, conduct a baseline assessment and use real observations and details to create an effective ERM process that produces results.

How to use the RMM

ERM – considering

risk in a new way. 🦡

Culture is the way we think, believe and behave. A risk management competency is made up of a

Participate in the Benchmarking Exercise

Receive a personalized Assessment Report and download the full version of the Risk Maturity Model (RMM) Apply the Risk Maturity Model to your organization

set of common values about how we manage risk and uncertainty. The culture within an organization greatly affects the drives the effectiveness of an ERM program including how we value skepticism and doubt, and how clearly we understand influences that impact our judgment. The Risk Maturity Model (RMM) defines the elements and characteristics, called attributes, that make up a strong risk management competency within the organization's culture. The RMM defines these seven attributes on a scale of five maturity levels. Each level ranks an organization according to its achievement of Enterprise Risk Management best practices in its processes. A chain is only as strong as its weakest link. A strong risk management cultural competency is demonstrated by the highest level on each of the Risk Maturity Model Attributes.

In utilizing the RMM, everyone assesses their own business areas, contributes to ERM goals and plans how to achieve them. Often, it's the way information is collected and used that influences choices, not the information itself. With the RMM, all stakeholders are involved in the process, meaning everyone rallies around the final results.

Stronger risk management cultural competency

Risk Maturity Model (RMM) Definition of Terms

Enterprise Risk Management (ERM) Framework

The culture, processes and tools to identify strategic opportunities and reduce uncertainty. The framework establishes communication and consultation methods with respect to critical risks in order to achieve an organization's business objectives. It formalizes process and content accountability. The ERM Process is the time-tested foundation of risk management methodology, pioneered by the risk management discipline and detailed in the Associate in Risk Management (ARM) designation program. It was later adopted and enhanced by other standards organizations¹

The ERM Process

A sequential process that supports the reduction of uncertainty and promotes the exploitation of opportunities. The ERM Process steps are detailed below.

Plan Focus - Establish external, internal and risk management criteria for evaluating risk.



Identify where, when, why and how business model, market, events, and operations, etc. associated with business changes, issues, and others – whether known or under-reported – might prevent, degrade or support goals.



Assess perceived risk through consistent, objective and pervasive evaluation criteria of impact, likelihood and effectiveness of controls to quantify the risk level. Potential opportunity is measured by impact, timeliness and assurance to examine the performance level. This creates a way to calculate an internal index. This analysis considers the range of potential consequences, and how to prioritize risks and opportunities. The residual risk or potential gain is determined.



Evaluate risk tolerance to determine acceptable risk and opportunity levels and consider the balance between potential benefits and drawbacks. Decide on scope, priorities and timelines.



Mitigate risk and exploit opportunities. Develop risk or opportunity activities for reducing uncertainty, increasing potential benefits and reducing potential costs. Collaborate with stakeholders and leverage expertise (Six Sigma², compliance, internal audit and others) to design improvement, transfer, control and other action activities. Weigh the cost of activities against the expected value of future uncertain events³



Monitor timeliness and effectiveness of mitigation activities by risk owners. Gauge program to ensure changing circumstances do not alter priorities and escalate issues. Unacceptable tolerance and mitigation should be reported to the appropriate manager.

Business Process Owner

the individual (s) responsible for process design and performance. The process owner is accountable for sustaining the gain and identifying risk and future improvement opportunities on the process

Risk Owner

the individual who is accountable for the validation, assessment and action plan to care for a particular risk⁴

Risk Plan

the basic communication for each specified Plan Focus that is used throughout the ERM Process to gather, organize and report information. Its items might also include contacts, activities, journal entries, notes and documents.

Attributes

Similar to individual employee performance evaluations, the RMM provides a set of attributes that drive business value. The RMM Attributes are designed to be compatible with various specialized frameworks, such as the Australian/New Zealand Risk Standard, COSO ERM, COBIT 4.0, Standard & Poor's ERM, Sarbanes-Oxley, etc.⁵

Maturity Levels

Detailed descriptions for each Attribute provide five maturity levels ranging from Non-existent to Leadership. Organizations measure their ERM Process against these maturity levels and set improvement targets.

Benchmarking

Using the Risk Maturity Model, LogicManager sponsors cross-industry benchmarking to identify emerging trends. Comparing maturity levels of other organizations highlights ERM priorities and evolving industry requirements. For more information on participating in the benchmarking survey, go to the Risk Maturity Model website: https://www.riskmaturitymodel.org

Standards Australia International Ltd and Standards New Zealand (The AS/NZL 4360), The Institute of Risk Management (IRM), The Association of Insurance and Risk Managers (AIRMIC) and ALARM The National Forum for Risk Management in the Public Sector, ISO/IEC Guide 73, JIS Q 2001 Japanese Industrial Standards Committee "International Risk Management Standard", COSO Enterprise Risk Management Integrated Framework 2004 "Treadway commission", Canadian BIP 2012, CAN/CSA Q850-07, etc.

²Six Sigma definition, Trademark of Motorola corporation

³Taking into consideration whatever is appropriate for the organization to approve an action plan including capital at risk, Risk Adjusted Return on Capital (RAROC), cost benefit analysis, time value of money discounted in net present value, etc.

⁴For the context of this document Process Owners are assumed to be Risk Owners. However, in some organizations the risk owner may or may not be the same as the process owner. For example in the case where a process is outsourced, the risk owner remains within the corporation.

⁵Examples of specialized approaches: COSO ERM Framework: Internal Environment, Objective Setting, Event Identification, Risk Assessment, Risk Response, Control Activities, Information & Communication, Monitoring; Standard & Poor's ERM: Risk Management Culture, Risk Controls, Extreme-event Management, Risk and Capital Models, Strategic Risk Management; COBIT Report Framework: Awareness and Communication, Policies, Standards and Procedures, Tools and Automation, Skills and Expertise, Responsibility and Accountability, Goal Setting and Measurement.

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The Risk Maturity Model:

Attributes

These core competencies measure how well risk management is embraced by management and ingrained within the organization. A maturity level is determined for each attribute and ERM maturity is determined by the weakest link.

- 1. ERM-based approach Degree of executive support for an ERM-based approach within the corporate culture. This goes beyond regulatory compliance across all processes, functions, business lines, roles and geographies. Degree of integration, communication and coordination of internal audit, information technology, compliance, control and risk management.
- 2. ERM process management Degree of weaving the ERM Process into business processes and using ERM Process steps to identify, assess, evaluate, mitigate and monitor. Degree of incorporating qualitative methods supported by quantitative methods, analysis, tools and models. See ERM Process definitions.
- 3. Risk appetite management Degree of understanding the risk-reward tradeoffs within the business. Accountability within leadership and policy to guide decision-making and attack gaps between perceived and actual risk. Risk appetite defines the boundary of acceptable risk and risk tolerance defines the variation of measuring risk appetite that management deems acceptable.
- **4. Root cause discipline** Degree of discipline applied to measuring a problem's root cause and binding events with their process sources to drive the reduction of uncertainty, collection of information and measurement of the controls' effectiveness. The degree of risk from people, external environment, systems, processes and relationships is explored.
- 5. Uncovering risks Degree of quality and penetration coverage of risk assessment activities in documenting risks and opportunities. Degree of collecting knowledge from employee expertise, databases and other electronic files (such as Microsoft® Word, Excel®, etc) to uncover dependencies and correlation across the enterprise.
- 6. Performance management Degree of executing vision and strategy, working from financial, customer, business process and learning and growth perspectives, such as Kaplan's balanced scorecard, or similar approach. Degree of exposure to uncertainty, or potential deviations from plans or expectations.
- 7. Business resiliency and sustainability Extent to which the ERM Process's sustainability aspects are integrated into operational planning. This includes evaluating how planning supports resiliency and value. The degree of ownership and planning beyond recovering technology platforms. Examples include vendor and distribution dependencies, supply chain disruptions, dramatic market pricing changes, cash flow volatility, business liquidity, etc.

Maturity Levels

Five maturity levels for each RMM Attribute with diminishing maturity from level 5 to level 1. ERM is a process and the Attributes below evaluate its quality and determine a maturity level.

Key Drivers

Profiling issues that best differentiate maturity levels within an attribute. Key drivers for each attribute summarize the Maturity Model. The full Maturity Model attributes measure an ERM Process and help set goals for improvement.

Attributes	Maturity Levels					
	Level 5: Leadership	Level 4: Managed	Level 3: Repeatable	Level 2: Initial	Level 1: Ad hoc	Nonexistent
Adoption of ERM-based approach	Key Drivers: Degree of • support from senior management, Chief Risk Officer • business process definition determining risk ownership • assimilation into support area and front-office activities • far-sighted orientation toward risk management • risk culture's accountability, communication and pervasiveness					
2 ERM process management	 Key Drivers: Degree of each ERM Process step (see definition) ERM Process's repeatability and scalability ERM Process oversight including roles and responsibilities risk management reporting qualitative and quantitative measurement 					
Risk appetite management	 Key Drivers: Degree of risk-reward tradeoffs risk-reward-based resource allocation analysis as risk portfolio collections to balance risk positions 					
4 Root cause discipline	 Key Drivers: Degree of classification to manage risk and performance indicators flexibility to collect risk and opportunity information understanding dependencies and consequences consideration of people, relationships, external, process and systems views 					
5 Uncovering risks	 Key Drivers: Degree of risk ownership by business areas formalization of risk indicators and measures reporting on follow-up activities transforming potentially adverse events into opportunities 					
6 Performance management	 Key Drivers: Degree of ERM information integrated within planning communication of goals and measures examination of financial, customer, business process and learning ERM process goals and activities 					
Business resiliency and sustainability	 Key Drivers: Degree of integration of ERM within operational planning understanding of consequences of action or inaction planning based on scenario analysis 					

Attribute 1 ERM-based approach

Degree of executive support for an ERM-based approach within the corporate culture. This goes beyond regulatory compliance across all processes, functions, business lines, roles and geographies. Degree of integration, communication and coordination of internal audit, information technology, compliance, control and risk management.

Nonexistent

No recognized need for an ERM Process and no formal responsibility for ERM. Internal audit, risk management, compliance and financial activities might exist but aren't integrated. Business processes and risk ownership aren't well defined.

Level 1: Ad hoc

Corporate culture has little risk management accountability. Risk management is not interpreted consistently. Policies and activities are improvised. Programs for compliance, internal audit, process improvement and IT operate independently and have no common framework, causing overlapping risk assessment activities and inconsistencies. Controls are based on departments and finances. Business processes and process owners aren't well defined or communicated. Risk management focuses on past events. Qualitative risk assessments are unused or informal. Risk management is considered a quantitative analysis exercise.

Level 2: Initial

Risk culture is enforced by policy interpreted as compliance. An executive champions ERM management to develop an ERM Process. One area has used the ERM Process, as shown by the department head and team activities. Business processes are identified and ownership is defined. Risk management is used to consider risks in a far-sighted manner.

Level 3: Repeatable

ERM risk plans are understood by management and the organization. Senior management expects that a risk management plan includes a qualitative risk assessment for significant projects, new products, business practice changes, acquisitions, etc. Most areas use the ERM Process and report on risk issues. Process owners take responsibility for managing their risks and opportunities. Risk management creates and evaluates far-sighted scenarios.

Level 4: Managed

Risk culture is associated with career advancement. The organization is self-governed with shared ethics and trust; promise-makers are held accountable. Risk management issues are understood at all levels and risk plans are conducted in all business process areas. The Board of Directors, CEO and Chief Risk Officer expect a risk management plan to include a qualitative risk assessment for significant projects, new products, business practice changes, acquisitions, etc. with reporting to the Board on priorities. All areas use the ERM Process to enhance their functions via the ERM framework, with frequent and effective communication on risk issues. Process owners incorporate managing their risks and opportunities within regular planning cycles. All areas create and evaluate far-sighted scenarios and follow-up activities.

Level 5: Leadership

Risk culture is analyzed and reported as a systematic view of evaluating risk. Executive sponsorship is strong and the tone from the top has sewn an ERM Process into the corporate culture. Board of Directors, senior management and the Chief Risk Officer communicate risk management's importance in daily decisions. Risk management is embedded in each business function. Internal audit, information technology, compliance, control and risk management are highly integrated and coordinate and report risk issues. All areas use risk-based best practices. The risk management lifecycle for each business process area is routinely improved.

Attribute 2 ERM process management

Degree of weaving the ERM Process into business processes and using ERM Process steps to identify, assess, evaluate, mitigate and monitor. Degree of incorporating qualitative methods supported by quantitative methods, analysis, tools and models. See ERM Process definitions.

Nonexistent

There's little recognition of the ERM Process's importance.

Level 1: Ad hoc

Management is reactive and ERM might not yet be seen as a process. Few processes are standardized and are improvised instead. There are no standard risk assessment criteria. Risk management is involved in business initiatives only in later stages or centrally. Risk roles and responsibilities are informal. Risk assessment is improvised. Standard collection and assessment processes aren't identified.

Level 2: Initial

Management recognizes a need for an Enterprise Risk Management Process. Agreement exists on a framework, which describes roles and responsibilities. Evaluation criteria are accepted. Risk mitigation activities are sometimes identified but not often executed. Qualitative assessment methods are used first in all areas and determine what needs deeper quantitative methods, analysis, tools and models.

Level 3: Repeatable

The ERM Process accommodates all business and support areas' needs. ERM is a process of steps to identify, assess, evaluate, mitigate and monitor. ERM Process includes the management of opportunities. An Enterprise Risk Council exists and senior management actively reviews risk plans. The ERM Process is collaborative and directs important issues to senior management.

Level 4: Managed

Management is clearly defined and enforced at every level. A risk policy articulates management's responsibility for risk management, according to established risk management processes. An Enterprise Risk Council exists and management develops and reviews risk plans. The ERM Process is coordinated with managers' active participation. Opportunities associated with risk are part of risk plans' expected outcome. Authentication, audit trail, integrity and accessibility promote roll-up information and information sharing. Periodic reports measure ERM progress for stakeholders, including the Board of Directors.

Level 5: Leadership

ERM, as a management aspect, is embedded in all business processes and strategies. Roles and responsibilities are process driven with teams collaborating across central and field positions. Risk and performance assumptions within qualitative assessments are routinely revisited and updated. The organization uses an ERM process of sequential steps that improves decision-making and performance. A collaborative, enterprise-wide approach includes all supporters. Accountability for risk management is woven into all processes, support functions, business lines and geographies as a way to achieve goals.

Attribute 3 Risk appetite management

Degree of understanding the risk-reward tradeoffs within the business. Accountability within leadership and policy to guide decision-making to attack gaps between perceived and actual risk. Risk appetite defines the boundary of acceptable risk and risk tolerance defines the variation of measuring risk appetite that management deems acceptable.

Nonexistent

The need for formalizing risk tolerance and appetite isn't understood.

Level 1: Ad hoc

Risk management might lack a portfolio view of risk. Risk management might be viewed as risk avoidance and meeting compliance requirements or transferring risk through insurance. Risk management might be a quantitative approach focused on the analysis of high-volume and mission-critical areas.

Level 2: Initial

Risk assumptions are only implied within management decisions and aren't understood outside senior leadership with direct responsibility. There's no ERM framework for resource allocation. Defining different views of business areas from a risk perspective can't be easily created and compared.

Level 3: Repeatable

Risk assumptions within management decisions are clearly communicated. There's a structure for evaluating risk on an enterprise-wide basis and for gauging risk tolerance. Risks and opportunities are routinely identified, evaluated and executed in alignment with risk tolerances. The ERM framework quantifies gaps between actual and target tolerances as part of the ERM Process. Portfolio views to balance risk positions are created and risk tolerance is evaluated based on portfolio analysis.

Level 4: Managed

Risk appetite is considered in each ERM Process step. Resource allocation decisions consider the evaluation criteria of business areas. The organization forecasts planned mitigation's potential effects versus risk tolerance as part of the ERM Process. Portfolio views are dynamic and risk tolerance is evaluated based on different views. Risk is managed by process owners. Risk tolerance is evaluated as a decision to increase performance and measure results. Risk-reward tradeoffs within the business are understood and guide actions.

Level 5: Leadership

A process for delegating authority to accept risk levels is communicated throughout the organization. Risk management uncovers risk, reduces uncertainty and costs and increases return on equity by risk awareness. The management team and Enterprise Risk Council define tolerance levels for all departments. A mechanism compares and reports actual assessed risk versus risk tolerance. The organization manages business areas and has portfolio collection to balance risk positions. Management prioritizes resource allocation based on the gap between risk appetite and assessed risk and opportunity. The established risk appetite is examined periodically as part of planning. Example: Take more risk and gain more market share versus a conservative hold position and protect the brand.

Attribute 4 Root cause discipline

Degree of discipline applied to measuring a problem's root cause and binding events with their process sources to drive the reduction of uncertainty, collection of information and measurement of the controls' effectiveness. The degree of risk from people, external environment, systems, processes and relationships is explored.

Nonexistent

The effects of risky events might be identified but not linked to goals. Events aren't associated with their process sources.

Level 1: Ad hoc

Cost savings aren't evaluated based on risk-based consequences. Risks aren't consistently evaluated. Perceived risk's frequency isn't tracked or connected to a process. Risk indicators and goals aren't organized within a framework and aren't central to the ERM Process. Many root causes have a wide array of implications. Does not formally track root causes throughout the ERM Process.

Level 2: Initial

The cause and effect chain from the top-down and the bottom-up isn't defined. Only past risk events are considered, leaving most possible risk areas not covered. A terminology and classification for collecting risk information exists. Awareness of a root cause approach's importance exists, but no robust scheme organizes risk indicators or performance indicators as the core of a risk management framework and ERM Process.

Level 3: Repeatable

The cause and effect chain from the top-down and the bottom-up is understood. A terminology and classification for collecting risk information is used. The ERM framework is organized around root cause risk categories such as internal people, external environment, relationships, systems and processes. The root cause approach is important in each ERM Process step, from the Identify step, to ensure all risk sources' are reviewed, to the Monitor step, to verify that the problem -- not the symptom --is attacked. Scenarios are developed and the root cause that makes the difference in scenario outcomes between worse case and best case are uncovered.

Level 4: Managed

A terminology and classification for collecting risk information is fully implemented. Causes, rather than only results, are identified, measured and managed. Risk and performance information is collected from all areas to identify dependencies and root cause indicators' frequency. Residual risk's financial implications are managed without distortive double counting within risk assessments. Operational, financial and strategic risks' root cause drivers are investigated, defined, quantified and routinely monitored. Scenario analysis is used throughout planning. Events are associated with their process sources to drive progress and measure the controls' effectiveness.

Level 5: Leadership

Mitigation measures are determined and a method to quantify effectiveness is understood. There's an obvious focus on root cause to achieve goals and maximize risk's upside. The organization uses "post mortems" to deconstruct past events (either its own or others') into root cause categories to prepare for future events. Scenarios are developed to evaluate potential benefits and drawbacks on a risk-adjusted basis. The organization tracks events and traces root cause in evaluating cost benefits of improvements. Risk elements' frequencies are identified and monitored. The discipline of reviewing all risky avenues is promoted to provide a comprehensive view of risk and opportunity. This is proactive risk management, rather than problem management.

Attribute 5 Uncovering risks

Degree of quality and penetration coverage of risk assessment activities in documenting risks and opportunities. Degree of collecting knowledge from employee expertise, databases and other electronic files (such as Microsoft® Word, Excel®, etc) to uncover dependencies and correlation across the enterprise.

Nonexistent

There might be a belief that the most important risks are known, although there is probably little documentation.

Level 1: Ad hoc

Risk is owned by specialists, centrally or within a department. Risk information provided to risk managers is probably incomplete, dated or circumstantial, so there's high risk of misinformed decisions, with potentially severe consequences. Further mitigation, supposedly completed, is probably inadequate or invalid.

Level 2: Initial

Formal lists of risks for each department and discussions of risk are part of the ERM Process. Corporate risk indicators are collected centrally, based on past events. Departments might maintain their own informal risk checklists that affect their areas, leading to potential inconsistency, inapplicability, lack of sharing or under-reporting.

Level 3: Repeatable

An ERM team manages a growing list of business area specific risks, creating context for risk assessment as a foundation of the ERM Process. Risk indicator lists are collected by most process owners. Upside and downside outcomes of risk are understood and managed. Standardized evaluation criteria of impact, likelihood and controls' effectiveness are used, prioritizing risk for follow-ups. Enterprise level information on risks and opportunities are shared. Risk mitigation is integrated with assessments to monitor effective use.

Level 4: Managed

Process owners aggressively manage a growing list of business area specific risks locally to create context for risk assessment activities as a foundation of the ERM Process. Risk indicators that are deemed critical to their areas are regularly reviewed in collaboration with the ERM team. Measures ensure downside and upside outcomes of risks and opportunities are aggressively managed. Standardized evaluation criteria of impact, likelihood and controls' effectiveness are used to prioritize risk for follow-up activity. Risk mitigation is integrated with assessments to monitor effective use.

Level 5: Leadership

Internal and external best practices, support functions, business lines and regions are systematically gathered and maintained. A routine, timely reporting structure directs risks and opportunities to senior management. The ERM Process promotes frontline employees' participation and documents risk issues' or opportunities' significance. Process owners regularly review and recommend risk indicators that best measure their areas' risks. The results of internal adverse event planning are considered a strategic opportunity.

Attribute 6 Performance Management

Degree of executing vision and strategy, working from the financial, customer, business process and learning and growth perspectives, such as Kaplan's balanced scorecard, or similar approach. Degree of exposure to uncertainty, or potential deviations from plans or expectations.

Nonexistent

No formal framework of indicators and measures for goals and management exists.

Level 1: Ad hoc

Not all goals have measures and not all measures are linked with goals. Strategic goals aren't articulated in terms that the frontline management understands. Compliance focuses on policy and is geared toward satisfying external oversight bodies. Process improvements are separate from compliance activities. Decisions to act on risks might not be systematically tracked and monitored. Monitoring is done and metrics are chosen individually. Monitoring is reactive.

Level 2: Initial

The ERM Process is separate from strategy and planning. A need for an effective process to collect information on opportunities and provide strategic direction is recognized. Motivation for management or support areas to adopt a risk-based approach is lacking.

Level 3: Repeatable

The ERM Process contributes to strategy and planning. All goals have measures and all performance measures are linked with goals. While compliance might trigger reviews, other factors are integrated, including process improvement and efficiency. The organization indexes opportunities qualitatively and quantitatively, with consistent criteria. Risk management criteria are part of management's performance evaluations. Employees understand how a risk-based approach helps them achieve goals. Accountability toward goals and risk's implications are understood, and are articulated in ways that frontline personnel understand.

Level 4: Managed

The ERM Process is an integrated part of strategy and planning. Risks are aggressively considered as part of strategic planning. Risk management is a formal part of goal setting and achievement. Incentive for effective risk management is part of compensation and career development. Investment decisions for resource allocation examine the criteria for evaluating opportunity impact, timing and assurance. The organization forecasts planned mitigation's potential effect on performance impact, timing and assurance prior to use. Employees at all levels use a risk-based approach to achieve goals.

Level 5: Leadership

The ERM Process is an important element in strategy and planning. Evaluation and measurement of performance improvement is part of the risk culture. Measures for risk management include process and efficiency improvement. The organization measures the effectiveness of managing uncertainties and seizing risky opportunities. Deviations from plans or expectations are also measured against goals. A clear, concise and effective approach to monitor progress toward risk management goals is communicated regularly with business areas. Individual, management, departmental, divisional and corporate goals are linked with standard measurements.

Attribute 7 Business resiliency and sustainability

Extent to which the ERM Process's sustainability aspects are integrated into operational planning. This includes evaluating how planning supports resiliency and value. The degree of business ownership and planning beyond recovering technology platforms. Examples include vendor and distribution dependencies, supply chain disruptions, dramatic market pricing changes, cash flow volatility, business liquidity, etc.

Nonexistent

Resiliency and sustainability is limited to an IT infrastructure orientation of continuity and disaster recovery.

Level 1: Ad hoc

Management is aware of resiliency-related risks and focused on infrastructure rather than the business. Users respond to disruptions with workarounds. The response to major disruptions is reactive. Departmental requirements to avoid risk often don't consider business needs. Impact of external and internal events on the business model isn't systematically reviewed.

Level 2: Initial

The organization recognizes broader planning's importance. This highlights the business aspects in addition to traditional disaster recovery. There's recognition that resiliency is an issue that needs consideration in each ERM Process step, and not just in mitigation, as is common with traditional business impact analysis. Achieving balance between quarterly deliverables versus mid-term and long-term value is considered.

Level 3: Repeatable

Resiliency uses far-sighted scenario analysis to document key drivers. The organization indexes priorities qualitatively and quantitatively, with consistent and objective criteria. Resiliency and sustainability are part of every risk plan and considered in each ERM Process step. Business model issues include geography, disruptive technology, competitors, leadership and environmental changes, with reporting and control by senior management.

Level 4: Managed

A comprehensive approach to resiliency considers the people, external, relationship, systems and process aspects. Logistics, security, resources and organization of response procedures are well documented. Resiliency and sustainability are part of the ERM Process and business continuity as mitigation. As a result of the risk process's evaluation, business-driven impact analysis is initiated. Reporting on how external and internal events might impact the business model is raised to the Board of Directors. Balance is achieved between quarterly deliverables and mid-term and long-term value.

Level 5: Leadership

All issues are framed within the context of continuity of services to all stakeholders. Resiliency or sustainability might be defined differently by each organization, with business-driven impact analysis initiated at all levels, based on priorities. Sustainability isn't a reachable end state; rather, it is characteristic of a dynamic and evolving system. Long-term sustainability results from continuous adaptation.

Conclusion

Enterprise Risk Management has evolved over the last two decades from a compelling new concept to a risk management requirement. Now a roadmap for implementing and benchmarking Enterprise Risk Management programs is crucial. No company can confidently say that it has embraced Enterprise Risk Management if there's no way to measure the program. And a set of solid empirical guidelines for measuring Enterprise Risk Management competency is fundamental. These guidelines, designed to deliver business value and compatible with existing frameworks, also provides a way to benchmark ERM progress.

By using the Risk Maturity Model, risk managers can finally gauge their ERM program's results. This does not just measure how well an organization has adopted ERM. It also provides an unprece-dented way to evaluate the ERM process, adjust it as needed and ensure that the intended benefits are delivered.

Adopting ERM is a major undertaking. It requires an enterprise to examine how to manage risk comprehensively. That's how you can achieve competitive advantage even as business risk keeps increasing. For organizations that gauge their ERM program's maturity, the ERM journey is much easier to navigate, and much more likely to deliver business value.

LogicManager encourages you to maximize the Risk Maturity Model. Each organization's ERM approach varies depending on its particular risks, risk appetites and priorities. This makes adapting ERM a very dynamic and challenging journey, and one that benefits most from powerful tools like the Risk Maturity Model.

To benchmark your ERM program and receive a personalized assessment, go to http://www.riskmaturitymodel.org/

We welcome your feedback. Please provide us your comments and questions on the Risk Maturity Model to: steven.minsky@logicmanager.com