

URMIA White Paper

ERM in Higher Education

September 2007

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This URMIA White Paper is published by the University Risk Management and Insurance Association (URMIA), P. O. Box 1027, Bloomington, IN 47402-1027. URMIA is an incorporated nonprofit professional organization.

The September 2007 URMIA White Paper was edited by Vincent Morris, Wheaton College, 501 College Avenue, Wheaton, Illinois 60187, layout by Jenny Whittington of URMIA, Bloomington, Indiana, and printed at University Printing Services, Bloomington, IN 47404.

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Introduction: A New World of Risk

After devastating accounting scandals rocked the U. S. at the turn of the millennium, increased levels of regulatory compliance were promulgated as a result of the Public Company Accounting Reform and Investor Protection Act of 2002 (also known as the Sarbanes-Oxley Act, Sarbox, or simply SOX). SOX, along with other regulatory compliance events and regulations, sent many corporations in the United States scrambling toward a new level of risk management. While SOX compliance is only required for publicly traded organizations, many have chosen to do so voluntarily—some in anticipation of being required to comply in the future; others believing that such compliance represents a best practice in risk management. These institutions are working with their boards of trustees toward a more efficient management of institutional resources through the discipline of Enterprise Risk Management (ERM).

With this new world of risk in mind, the University Risk Management and Insurance Association (URMIA) appointed a task force of risk managers and authors who have worked together to prepare this White Paper on Enterprise Risk Management, to provide URMIA members and institutional colleagues with both a better general understanding of this management process, and also a set of resources on how to implement the ERM process.

Note that this document will not give a detailed, step-by-step guide on how to implement ERM at any specific institution. However, it will provide a good overview of the process, where to begin, and best resources available for structuring and implementing an ERM framework.

Toward that end, and perhaps most helpful in this document, are the Appendices describing how other schools have implemented ERM. We especially thank Grace Crickette of the University of California, Office of the President, Dr. Christine Eick of Auburn University, Gary Langsdale of Pennsylvania State University, and Ruth Unks of Maricopa County Community College District for their willingness to share their programs, “warts and all.”

Risk Management Evolution and the New Language of Risk

The practice of Risk Management as a discipline has been changing steadily for the last twenty years and especially in the last five. URMIA is particularly interested in advancements in the risk management field and is the key source for higher education risk management information. Other organizations that educate and track risk management trends are the Association of College and University Auditors (ACUA) and the Public Risk Management Association (PRIMA), which has recognized that the transformation of risk management includes organizational vision, mission and strategies.

Another important higher education business organization is the National Association of College and University Business Officers (NACUBO), which noted in a 2000 publication the advent of the most recent changes in risk management:

Risk management evolved from insurance buying when methods other than insurance buying began to be used to treat risk exposures. Originally the scope of risk management was narrowly defined to include only accidents that resulted in a loss. In the 1980s, as sophisticated risk financing became an important alternative to insurance, risk management expanded to include other risk transfer and risk control strategies. Now the evolution continues as the focus of traditional risk management expands into strategic risk management, an even more comprehensive approach that does include investment, business, and political risks.

Each of these organizations are developing various aspects of ERM for implementation in higher education settings. As these ERM pathways converge, sometimes in confusing ways, a brief review of the history of ERM developments may be helpful.

In the late 1980s, long before SOX, several significant business failures occurred as a result of high-risk financing strategies. These events and their negative outcomes resulted in authoritative standard-setting bodies for the financial services, accounting, and auditing industries to convene and assess the nature of the business failures. The result was the commissioning of the Committee of Sponsoring Organizations of the Treadway Commission (COSO), sponsored and funded by the American Institute of Certified Public Accountants (AICPA), the American Accounting Association (AAA), the Financial Executives Institute (FEI), the Institute of Internal Auditors (IIA) and the Institute of Management Accountants (IMA). COSO was charged with conducting a study of the business failures and issuing guidance on how to prevent reoccurrences. The outcome of COSO's review of internal control systems was the recognition and communication of the need for managing organizations to shift from strictly a financial focus to a focus on managing "business risks."

The COSO report provided a common language regarding controls, and created an integrated control framework for managing business risks. The framework consists of five interrelated components: 1) control environment, 2) risk assessment, 3) control activities, 4) information and communication, and 5) monitoring.

The *control environment* component is considered the “framework.” It focuses on people, the ethical and moral values established by an organization’s leadership team, and competence. It emphasizes that people *are* the organization and are the key determinants of the organization’s success or failure.

The *risk assessment* component ensures that mechanisms exist throughout the organization to identify, manage, and mitigate unwarranted risks. Therefore, goal alignment is critical throughout the organization and is to be integrated throughout all significant activities.

The *control activities* component provides that policies and procedures should be established and followed to ensure all actions support the achievement of defined goals.

The *information and communication* component provides that communication and the sharing of information should occur up, down, and across the organization. It requires that information be timely and thorough in order for actions to be completed that support the achievement of stated goals.

The *monitoring* component provides that the entire process must be monitored in order to recognize problems to make necessary adjustments during the course of operations.

What is “risk”?

Before risks can be effectively managed, an organization must agree on a common definition of risk that is clearly understood throughout the organization by the board, management, and staff. The 2001 NACUBO publication *Developing A Strategy to Manage Enterprisewide Risk in Higher Education* defines risk as “any issue that impacts an organization’s ability to meet its objectives. Five types of risk include: strategic, financial, operational, compliance, and reputational.”

COSO defines ERM as “a process, effected by an entity’s board of directors, management and other personnel, applied in 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.”

The consultancy group Tillinghast-Towers Perrin defines ERM as “a rigorous approach to assessing and addressing the risks from all sources that threaten the achievement of an organization’s strategic objectives. In addition, ERM identifies those risks that represent corresponding opportunities to exploit for competitive advantage.”

As the corporate world wrestles with new and broader definitions of risk, ERM has become the common currency of the risk management discipline and is beginning to provide the primary vocabulary as well.

How Does ERM Work in Higher Education vs. the Corporate World—and Why Should I Care?

As higher-education leaders develop business strategies for the 21st century, it is important to recognize and continuously examine the market forces changing not only our society, but also the entire economy and related business environments that envelop our complex higher education institutions. This is a key purpose of an ERM framework.

The following drivers are increasing pressure to transform higher education:

- Fierce competition for faculty, students, staff, and financial resources.
- Pressure for increased productivity, responsiveness, and accountability while reducing costs.
- Increased external scrutiny from government, the public, governing boards, journalists, and taxpayers'-rights groups.
- Powerful new technologies that require significant investment of both financial and human capital resources.
- Rapidly increasing entrepreneurial ventures beyond the traditional educational venues that create stresses and strains on traditional administrative and financial infrastructures.
- Increased competition in the marketplace.
- Increased levels of litigation in general and internally, with ever-increasing levels of financial consequences.

As higher education leaders map new strategies to address these drivers, it is especially important to note that *business* risks have increased. Leaders understand these risks, and they establish a “risk conscious” tone at the top for their organizations. These business risk areas include:

- **Strategic Risks—Goals of the Organization:** In developing strategic plans, colleges and universities should consider the risks associated with each strategy. Institutions of higher learning must market their unique advantages, strive to be competitive and be a vital presence in the communities they serve. An appropriate ERM framework should support the upside of risk (benefits) and protect against the downside of risks in all these endeavors.
- **Operational Risks—Processes that Achieve Goals:** Colleges and universities are dependent upon day-to-day operations for their success and, as such, must assess operational risks.
- **Financial Risks—Safeguarding Assets:** Finance divisions, including risk management departments, traditionally have focused on managing the risks of potential loss of physical assets and financial resources.

- **Compliance Risks—Laws and Regulations:** This area includes internal and external reporting and may involve financial and non-financial information. Non-compliance with external laws, regulations and rules can be costly. Some of the most significant penalties have come from ineffective management of compliance risks.
- **Reputational Risks—Public Image:** Many organizations' images have been damaged and reputations tarnished by failure to effectively manage reputational risks. Emphasis on employee and educational integrity and a clear statement of the ethics and moral values emanating from the top is an important component of this risk.

Enterprise Risk Management links institutional governance, risk management, and the strategic goals of the institution. Simply put, it is a way to more effectively manage *all* of the risks that exist on a college or university campus. The financial benefits of ERM for a school can include:

- Cost-effective management of all its resources
- Greater efficiencies in use of constrained resources
- Maintaining competitive advantages, resulting in enhanced use of existing applications
- Eliminating paying fines for regulatory non-compliance
- Enhanced capital and reduced loss of assets
- Reduced cost of turnover by avoiding employment liability exposures
- Reduced legal expenses
- Enhanced communications across departmental “silos,” the self-contained management of risk without reference to the overall goals and strategy of the organization
- Reduced claims or operational losses by enhanced loss prevention

ERM helps an institution to:

- Sustain its competitive advantage
- Solidify its integrity and reputation
- Respond effectively when a significant event occurs
- Avoid financial surprises
- Effectively manage all of its resources

Instead of having only a few personnel dedicated to managing traditional risks on campus, ERM engages everyone at the institution in the management of those risks for which they are responsible.

ERM Frameworks

The first step in implementing ERM is to establish a *framework*. This is the overarching structure under which reside the basic components that make up enterprise risk management. Each institution's framework will be unique. It is through the building of a framework that each organization decides which ERM components best address needs and then decides how these components will be implemented on campus. These choices will be influenced by the institution's goals, objectives, risk management culture and philosophy.

The ERM framework incorporates the organization's ERM goals and objectives, management oversight, written plan, processes, tools and methods for full implementation across the university. It also incorporates a systematic approach to evaluating and improving the effectiveness of the ERM program.

It is important to establish from the beginning what the *objectives* of the ERM framework will be. For example, the University of Regina's (SK, Canada) policy on ERM describes the objective of their framework as follows:

“ERM, through the application of the framework objectives, aids in the achievement of the University strategic priorities and advances the management practices at the University. Specifically, the ERM framework objectives are to:

- a. Incorporate a consistent approach to risk management into the culture and strategic planning processes of the University, supporting the setting of priorities and making of decisions at the institutional level, as well as at the operational and administrative unit levels.
- b. Apply a consistent approach to risk response and control activities to support the University's governance responsibilities for innovation and responsible risk-taking, policy development, programs and objectives. In all cases, appropriate measures will be put in place to address unfavorable impacts from risks and favorable benefits from opportunities.
- c. Manage a transparent approach to risk through formal and informal communication and monitoring of all key risks, balancing the cost of managing the risk with the anticipated benefit. Risk management practices will be adapted to encompass best practices, specific circumstances and mandate.”

These framework objectives exemplify the starting point in the development of a comprehensive ERM program that embodies the intent of COSO, as well as other widely accepted ERM approaches.

Framework Options

In determining how to develop their own specific institutional ERM framework, higher education administrators may wish to familiarize themselves with the various ERM framework approaches that have been published by professional organizations, largely in the U. S. but also in the United Kingdom, Australia, New Zealand and Canada. Some of these frameworks come from engineering, accounting and auditing organizations, while others come from the insurance industry. The different backgrounds lead to very different approaches. Some, for example, lead specifically towards financial reporting.

Examples of major existing frameworks are:

- 1) COSO's *Enterprise Risk Management—Integrated Framework*
- 2) Australia/New Zealand Standard—*Risk Management*
- 3) ISO Risk Management—*Draft Standard*
- 4) The Combined Code and Turnbull Guidance
- 5) *A Risk Management Standard* by the Federation of European Risk Management Associations (FERMA)

Three of these frameworks, in particular, seem to be most suitable for use by colleges and universities. They can be summarized as follows:

1. COSO's *Enterprise Risk Management—Integrated Framework*

In 2004, COSO published a document entitled *Enterprise Risk Management—Integrated Framework* with the objective of “providing an ERM framework, key principles and concepts, a common language, and clear direction and guidance” for companies wishing to consider implementing, evaluating and improving ERM programs. COSO distinguishes this publication from the 1992 COSO publication entitled *Internal Control—Integrated Framework*, which continues to serve “as the broadly accepted standard for satisfying” Sarbanes-Oxley 404 requirements. The 2004 publication “expands on internal control, providing a more robust and extensive focus on the broader subject of enterprise risk management” and “does not replace the internal control framework but rather incorporates the internal control framework within it.”

The COSO ERM framework can be depicted as a three-dimensional matrix (Exhibit 1). The top side of the matrix sets forth the four major categories of ERM program objectives. The front face of the matrix shows the eight interrelated components of an ERM program. The COSO publication discusses each of these components in detail. These components are the mechanisms and processes by which ERM program objectives are achieved. The third dimension simply indicates that ERM is intended to be implemented on an organization-wide basis.

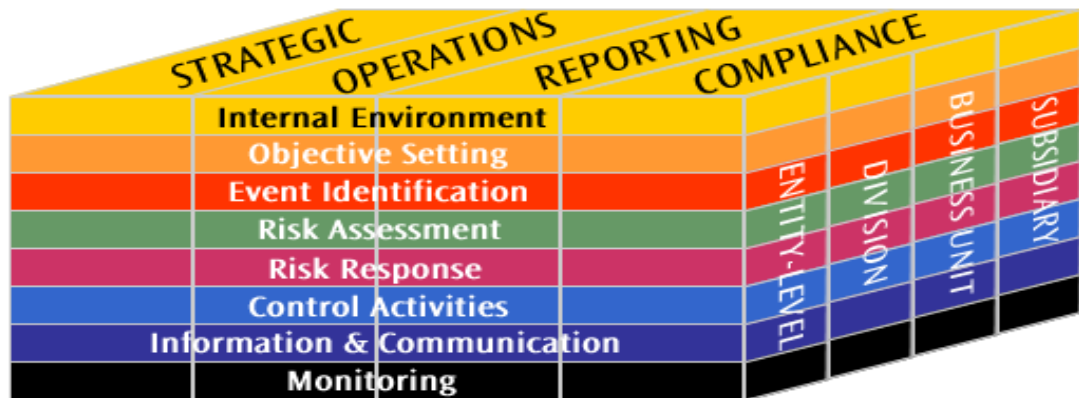


EXHIBIT 1

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The Executive Summary of the COSO ERM framework can be obtained at www.coso.org. Bound and electronic copies of the complete integrated framework may also be ordered through the website. This document includes the Executive Summary, the Framework and the accompanying Application Techniques, “which provide illustrations of techniques useful in applying elements of the framework.”

2. Australia/New Zealand Standard (AS/NZS 4360:2004)—*Risk Management*

Australia and New Zealand formed a joint technical committee composed of representatives from numerous organizations (profit-making and nonprofit), professional disciplines, and industry sectors to publish two documents on risk management. The first document is the actual *Risk Management Standard*, initially published in 1999. The Standard has been revised and was republished in 2004 as AS/NZS 4360:2004. The second document, entitled *Risk Management Guidelines* (Companion to AS/NZS 4360:2004) provides generic guidance for developing and implementing an effective enterprise-wide risk management process.

The Standard can be adapted for use in any type of organization and for any project. In keeping with current ERM concepts, it attempts to factor in both the upside and downside of risk. An organization that practices ERM will be working diligently to identify risks, manage them and monitor their status. The organization will have a corporate understanding of the types and limits of risk and the amount of overall risk it will tolerate. An effective ERM program will have a management structure and process in place to ensure that losses that occur will be within those tolerances. When an ERM program is effective, the organization will *know* what risks it faces; it will *understand* those risks and understand how to *manage* them. At that point, decision makers will be able to make informed decisions on a risk vs. reward basis. The result of ERM, therefore, fosters a culture of “risk adjusted decision making” and a controlled risk-taking environment. Stakeholders and decision makers can then confront risk with the knowledge that losses are probable but manageable within predetermined limits.

The Standard contains nine steps necessary for creating an effective program:

1. Ensure support of senior management
2. Develop risk management policy
3. Communicate policy
4. Establish accountability and authority
5. Customize the risk management process
6. Identify and provide resources
7. Develop a plan for appropriate organizational levels
8. Manage risks at the area, project and team levels
9. Monitor and review

The *Guidelines* document (Companion to AS/NZS 4360:2004) takes each element of the risk management process (see Exhibit 2) and elaborates on that step. The process itself is very similar to the traditional risk assessment process: identify risks, analyze risks, evaluate risks, treat risks, and monitor and review. A thorough treatment of two additional steps is also incorporated: “Communication and Consultation” and “Establishing the Context.” “Communication and consultation are important considerations at each step of the risk management process. They should

3. ISO Risk Management—*Draft Standard*

The International Organization for Standardization (ISO) is a worldwide federation of national standard-making bodies. ISO is currently developing an ISO Risk Management Standard. This framework is very similar to the Risk Management Process contained in the Australia/New Zealand Standard (2004). As described by ISO, “This International Standard provides generic principles and guidelines for the effective implementation of risk management and is applicable to any organization, regardless of its size and type. It also seeks to assist in the harmonization of risk management processes and definitions in existing and future standards.”

It appears that the final ISO Framework will contain a thorough risk assessment process similar to the one described in the Australia/New Zealand Standard and will be familiar to those who have been practicing traditional risk management.

Developing an ERM Framework of Your Own

It is one thing to know about the best ERM framework-building structures available; another to select one. The basic components of most widely recognized frameworks are similar, with differences mainly in the language used to describe the process and in the number of steps. The trick is to successfully bridge the gap between the general frameworks and become institutionally specific. Every college and university has its own culture, management philosophy, capabilities and needs. Each institution will need to develop or tailor an existing ERM framework to serve their purposes, including defining and employing its own ERM language.

Some schools appoint a Chief Risk Officer (CRO) to oversee the implementation of ERM. A Chief Risk Officer is different from a Risk Manager to the degree that he or she is able to encourage and facilitate the *entire organization* to integrate thinking about the costs *and benefits* of taking risks, and how to manage them, throughout the entire strategic planning process. The Risk Manager may guide or even direct the process, because good risk management already means working with multiple departments, taking a broad view of processes, and analyzing risk. But the Risk Manager will not always be the captain of the ERM ship, as sometimes departments will merge, cross-disciplinary risk committees will form, and other skill sets are employed.

Certainly the leadership attributes for the Chief Risk Officer may be different from those typically sought for a Risk Manager. The CRO will need not only an understanding of insurance, but familiarity with other areas such as Environmental Health and Safety, Security, Facilities Management, Operations, and the Academy. Insurance will always be an important tool in the risk management box, but ERM drives everyone to be more strategic, imaginative, broader, and longer-term risk management solutions.

The essential components of most ERM frameworks are similar. Mature framework models have basic components that bond-rating agencies, auditing firms, accounting firms and risk managers consider necessary for building a credible, workable ERM Framework. They include:

- 1) Goals and Objectives, including the university's rationale for managing risk
- 2) Description of the risk management culture
- 3) Oversight and management structure for ERM infrastructure
- 4) Development of a written plan of implementation
- 5) Risk Management Process (identification, analysis, evaluation, treatment, monitoring)
- 6) Risk reporting
- 7) Communication

As you decide how to implement ERM within your organization, you may want to adapt a generic framework to meet your needs and available resources. The framework depicted in Exhibit 3 contains the essential components of several widely accepted ERM frameworks, compiled and portrayed in a comprehensive generic model.

Exhibit 3: Model Risk Management Framework

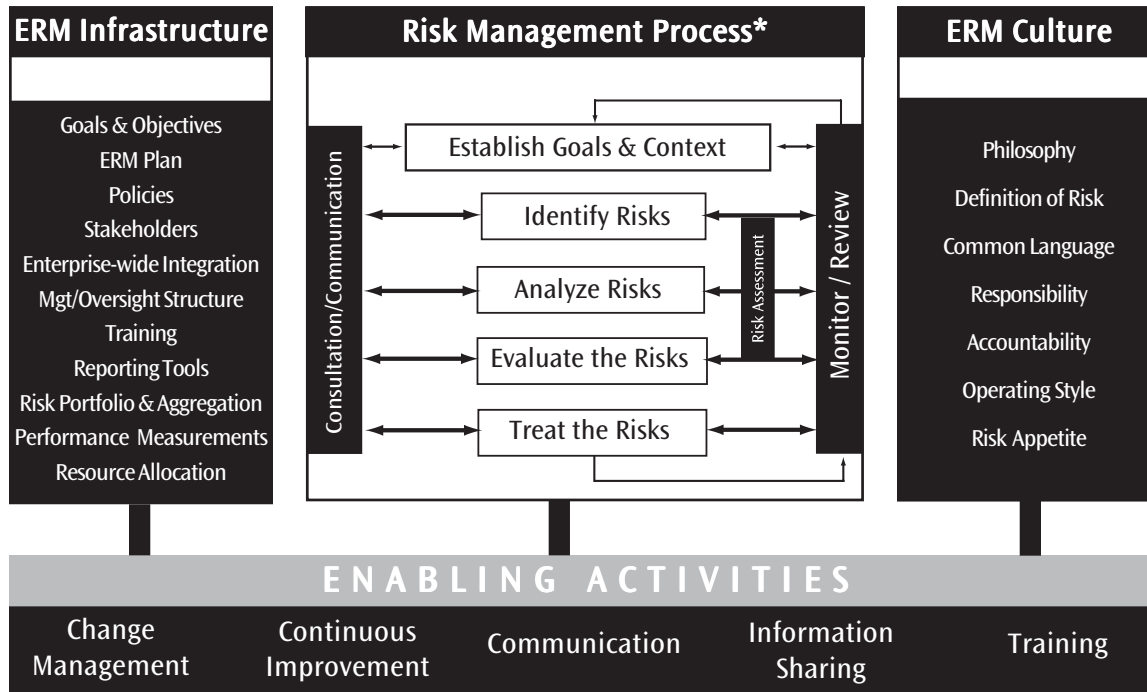


EXHIBIT 3

*Risk Management Process, AS/NZS 4360:2004 Fig 2.1 Reproduced with permission under SAI Global Copyright Licence 0901-c053.

At the core of this framework is the Risk Management Process, which is similar to the standard risk assessment process familiar to many risk management practitioners since its creation in 1972 by Dr. George L. Head (Ph. D., CPCU, ARM, CSP, CLU, Director Emeritus of the Insurance Institutes of America; Dr. Head continues to write and advise on risk management matters). However, the scope and application of the framework is enterprise-wide. Within ERM principles, traditional risk management practices must now be integrated with existing management practices and the supporting enabling activities which have been adopted at your University. In addition, the contemporary concept of ERM goes beyond risk assessment and the traditional goals of protecting assets and mitigation. It embraces the concept of adding value to the organization and *enhancing*, as well as *protecting*, both tangible and intangible assets.

Once you have your ERM framework, the approach and course you will take to implement it can be boiled down to an ERM plan that will keep you on the right path and headed in the right direction.

Elevating Awareness of Enterprise Risk Management in Institutions of Higher Education

It is fine to learn about ERM as applied in the corporate setting, and about the framework options available for tailoring a plan to a specific organization. But you may have questions remaining about how the ERM process works at colleges and universities. Here are a few of the most likely questions and answers:

1. Is ERM really applicable to higher education?

Yes, the ERM process is directly applicable to institutes of higher education, just as it is to any other “enterprise.” Risks are taken, considering both down-side and up-side potential, to minimize loss and maximize competitive advantage. There is nothing so unique to the college or university setting as to make ERM irrelevant or impossible to implement. Since risk management already takes place at the vast majority of schools, ERM simply expands that process up (with the support of the Board and administrators) and across (posing questions about specific risks and management techniques) to all other departments and divisions of the institution.

2. Within the institution, who already may have heard about ERM?

The topic now receives a fair amount of space in the business trade press for financial leaders. It is also being discussed by the credit rating agencies (Moody’s, Standard and Poor’s, Fitch Ratings) in their briefings; for the financial and energy sectors, these rating agencies have already formally incorporated ERM into their analysis of entities under review. NACUBO published a White Paper on the topic of ERM in 2000, and is considering an update.

Based on these indicators, it is safe to say that most Chief Financial Officers, Business Officers and Controllers have probably heard or read about ERM. The Association of Governing Boards has also demonstrated an interest in the topic, including recent articles in their periodical, so Trustees may have heard of it. Further, to the extent that Trustees have other roles in the community such as business leadership, their own companies may have already implemented an ERM program.

PricewaterhouseCoopers has been active in advising Internal Auditors about the COSO model (which PwC authored), and PwC (along with other major accounting firms) offers consulting services on the topic, as do the major insurance brokerages.

Internal Auditors have long used the COSO model in their assessment of risk. External audit firms such as PricewaterhouseCoopers have been very active in promoting the use of the COSO model through various publications.

3. Who is likely to be interested?

Within an institution of higher education's management, the board of trustees, the president, the Chief Financial Officer, Controller, Internal Auditor, General Counsel and the Risk Manager. Those persons responsible for developing and monitoring the school's long-term strategic planning efforts will also be interested since ERM may have an impact on the success of the plan. Various other campus departments may also be interested, such as academic affairs, student affairs, athletics, student health, fleet/transportation offices, international education, human resources, police/security, etc.

4. Although the process of earning "buy-in" will differ by institution, what are the basic steps?

If one accepts the idea that the risk management function at an institution of higher education is responsible for evaluating risk issues and working in concert with other responsible parties to deal with those risks, ERM is a value to be incorporated into the decision-making processes. Thus *it is not a distinct product*, but rather it seeks to enhance judgment and decision-making throughout the organization, in such a way as to beg the question "have you thought of...?" when making decisions about any aspect of the enterprise, to be exercised by everyone from the custodial staff to the President. All individuals must "own" the risks their actions encounter, and this ownership will not be supplanted by the implementation of ERM. Therefore, obtaining acceptance of ERM is no different from educating the leaders and staff about any other aspect of improving their productivity or decision-making process. The basic steps include:

- a) Raising awareness of the concept;
- b) Understanding and explaining the growing body of reference material and background information (see question #2 above) about ERM within the higher education sphere;
- c) Explaining how ERM can benefit the leaderships' efforts with a more thoughtful assessment of risk *before* decisions are implemented.
- d) Asking leaders the question, "What keeps you awake at night?" Consideration of this question might spur a dialog that will raise awareness that they can make a difference by consciously incorporating risk issues into their decision-making process. This is the most critical practical piece of ERM. Unless and until each departmental group is actively incorporating "what if?" risk management questions into their long-range planning and decision-making, ERM is not yet a complete reality on campus.

Once leaders understand the basic risk management cycle (identify the risk, quantify the exposure's probability and severity, select and implement treatment, monitor the effects), they can incorporate this into their own processes as formally or informally as the institution may choose. This is the time to introduce basic tools of risk identification and analysis, and assist them in using them to

think about both the costs and the benefits of the risks of their action (or inaction, as the case may be—one of the more exciting aspects of ERM is the seizing of opportunities otherwise passed by because, upon further ERM-level deliberation, the risks seem manageable after all).

ERM can also open the door for a strengthened working partnership between the Risk Manager and the Internal Auditor, since the Internal Auditor has a responsibility to report that appropriate management controls are in place. ERM provides another way for the Audit function to determine that due diligence is done throughout the organization. However, because the Auditor's role is to *evaluate and report* on systems and controls, it is inappropriate for the Auditor to *manage* the systems and controls—but Internal Audit can be an advocate and partner, helping the Risk Manager to explain the benefits of ERM.

Conclusion: The Secrets to Success

Risk Management is not a new discipline. It is not even new to higher education. But the breadth of ideas suggested by *Enterprise Risk Management* is new to both the corporate world and to higher education.

A cookbook recipe for implementing ERM is not feasible, because so much depends on the culture of the organization and the change agents who lead the effort. Success will require the institution's governing board, chief executive officer, and senior management to establish a tone of importance for the initiative, specifying it to be a sustaining approach to managing the institution's resources. Champions of the initiative need to include college administrators, as well as deans, department chairs, and their business administrators. An institution's culture, including existing silo approaches to key activities and well-protected turfs will present barriers to successful implementation. There are a few standard keys to success.

The International Internal Auditors Foundation and the Tillinghast-Towers Perrin report identified six components that are present in successful ERM programs:

- Obtaining strong, visible support from senior management and/or the Board of Directors
- Dedicating a cross-functional group to drive the implementation and continue to push it in its operational phase
- Closely linking ERM to key strategic/financial objectives and to the business planning process
- Introducing ERM as an enhancement to well-accepted processes—not a stand-alone process
- Importing ideas from the outside
- Proceeding incrementally and leveraging “early wins”

According to other ERM literature, in order to attain the highest probability of success in implementing ERM, the following must be present:

- Top-level support, commitment and participation;
- Adequate breadth and depth for participation within the organization;
- An understanding that ERM is a continuous process, not a one-time event;
- An institutionalization of the process of risk assessment, so that the entire institution becomes involved and has ownership of the outcomes.

Organizations that have invested the time and effort to get these fundamentals right have been more satisfied than their peers with the progress of their ERM implementation efforts. They have succeeded because they have laid a clear track to follow, established realistic expectations, assigned clear unambiguous roles and responsibilities, equipped themselves appropriately, and identified objective benchmarks to monitor their progress.

Higher education risk managers who implement this new type of risk management program will elevate their institutions into the elite group of schools who are working to break down the limitations of the “silo approach” to managing risk by integrating traditional risk management and ERM.

Appendix A—How to Make It Work: ERM at Auburn

Auburn University (by Dr. Christine Eick, Executive Director of Risk Management and Safety)

- Total Student Population: 23,547 FTE
- Undergraduate Students: 19,367 FTE
- Graduate Students: 3,245 FTE
- Professional Program Students: 935 FTE
- Employees: 9,450 FTE
- Net Assignable Square Footage: 7,575,927
- Total Revenues: \$575,774,630 (2003)
- Total Organized Research Funds: \$105,108, 747 (2001)

Auburn University, a premier public land-grant research institution located in east Alabama, has a proud and dynamic 150-year history with a strong commitment to instruction, research, and outreach. For Auburn, Enterprise Risk Management means that risk management is part of the university culture and is incorporated into the strategic planning process and goals of every department. Individual departments and divisions at the university will know what their risks are, will take responsibility for managing those risks, and will measure their performance in managing their risks. The key change for us from “typical” risk management is that with ERM, the departments are taking the responsibility for managing their risks through their strategic planning process and are holding themselves accountable for their risk management performance.

I became interested in ERM in the late 1990s, when the risk management and insurance industry began to take a serious look at how we were defining risk management. I saw how risk management evolved from an insurance purchasing function, to an insurance management function, to a broader risk management function. I saw enterprise risk management as the next phase for risk management in its evolution. As a risk management professional I want to stay abreast of what is going on in my field, so I read anything I could find on enterprise risk management. I attended an Advanced Management Program on Enterprise Risk Management, and through that program was introduced to several models that had been successfully implemented in the corporate world. I was surprised, after meeting the Chief Risk Officer for Wal-Mart, to see how well the Wal-Mart model could work in a university setting. Wal-Mart has separate divisions that work very autonomously, in a way that is very similar to how a university has colleges, divisions, and departments that operate in a decentralized fashion.

At the same time, our Executive Director of Internal Auditing was also learning more about enterprise risk management and had a great interest in implementing ERM at Auburn University. He had learned about a method other schools were using that was very similar to the one implemented by the CRO of Wal-Mart and that coincidentally used some of the same tools. The Executive Director of Internal Auditing and I had talked informally about what we were reading and learning about

ERM, and decided that we were ready to bring together what we had learned and create a model system for implementing ERM at Auburn University.

Risk Management and Safety and Internal Auditing were positioned well to begin an ERM program. We both report to high levels in the organization and operate with a fair amount of autonomy. I report to the Executive Vice President and President, and the Executive Director of Internal Auditing reports to the chair of the Board of Trustees Audit Committee. Both of our departments are seen as resources for our university and enjoy positive relationships with Deans, Vice Presidents, and other senior administrators. We also had a common vision for creating an environment where risk management is considered in the strategic planning of every department at Auburn University. We saw that by working together we could pool our contacts and resources to implement ERM.

To help the “risk owners” analyze the risks facing them, we use both an anonymous voting system called Resolver Ballot and the Microsoft Excel spreadsheet program in our risk assessment workshops. We hold the workshops in a “smart classroom” and are able to project the spreadsheets and the Resolver screens, which enables the participants to take an active role in the workshop. We purchased five licenses for the Resolver Ballot software, a receiver for a laptop computer, and twenty-five remote voting pads that are used by the workshop participants in casting their votes. The Resolver Ballot software is loaded with the risks that the workshop participants have identified as their risks. The participants vote on the rankings for the risks using the remote voting pads. The risks are ranked on a scale of 1–5 for 1) the impact the risk has on their organization, 2) the likelihood that the risk will occur, and 3) the degree of influence they have over the risk. The Resolver Ballot program allows for immediate results and is a very efficient tool to use. The data is easily downloaded into Excel, which makes it easy to share the raw data with others who do not have the Resolver software. The Resolver licenses and equipment were under \$15,000.

Appendix B—How to Make It Work: ERM at Penn State

The Pennsylvania State University (by Gary Langsdale, University Risk Officer)

- Total Student Population: 76,387 FTE at 20 campuses
- Undergraduate Students: 68,095 FTE at 17 campuses
- Graduate Students: 8,292 FTE
- Professional Program Students: 1,258 FTE
- Employees: 22,478 FTE at 20 campuses
- Net Assignable Square Footage: 8,060,000 at Main Campus
- Total Revenues: \$3,411,528,000 (2006–07)
- Total Organized Research Funds: \$700,000,000

Penn State is a multi-campus, public land-grant university (publicly supported, but not owned by the State) that improves the lives of the people of Pennsylvania, the nation, and the world through integrated, high-quality programs in teaching, research, and service. Our instructional mission includes undergraduate, graduate, and continuing and distance education informed by scholarship and research. Our research, scholarship, and creative activities promote human and economic development through the expansion of knowledge and its applications in the natural and applied sciences, social sciences, arts, humanities, and the professions.

The goal of Penn State University's ERM program is to provide tools for its leaders and managers to make better risk-adjusted decisions. Those who own the risks need to better understand how they can seamlessly incorporate ERM into their decision-making process so that they can keep risks within the University's tolerance and perhaps gain a competitive advantage.

Investigation of ERM was actually driven by the senior financial leadership of the University, who had read and heard about it from various sources and decided to investigate further. When the University Risk Officer and the Director of Internal Audit were each hired in 2003, they were given the charge by the Senior Vice President of Finance and Business and the Corporate Controller to work together to investigate ERM and determine whether it might be included in the University's work processes. Shortly thereafter, the Finance and Business organization implemented its 2004–2008 Strategic Plan, and ERM was listed as a Key Initiative of that Plan.

The Key Initiative Team has led the way in determining the ERM efforts. As of August 2007, there is not a formal structure to the implementation of ERM beyond the team members' activities, although training for managers is under active development. Keeping in mind that since Penn State University's vision of ERM is *not* to impose any particular structure, but rather to provide tools for use by leaders and managers throughout the University, our activities have focused upon identification of risks, engaging in dialog with the "risk owners," and developing training material.

To date we've stuck with low-tech solutions. The Internal Audit Director and University Risk Officer traveled to all campuses to visit every Chancellor, Dean and senior business unit leader. From that tour came a distinct list of risks, which the Key Initiative Team plugged into a risk map (frequency on one axis, severity on the other) and then prioritized the dozen highest frequency and/or severity risks which could be dealt with, for initial focus. Teams of two team members are now meeting with each of the "risk owners" to ask whether these risks are worthy of consideration, whether further resources are required to manage the risks within the University's tolerance, and whether the "risk owner" is satisfied with the current efforts to manage the risk. Training classes are under active development in conjunction with the University's Human Resource Development office.

To initiate the process, we engaged a consultant to act as facilitator for the Key Initiative Team. This has been a successful strategy, which brought a discipline to the usual group dynamics. Within the University we were quite surprised as the initiative got underway that there was no perceptible resistance to evaluating risks in an ERM format. In the interview process described above, half an hour was allocated for each interview; not a single one went less than a full hour, and many extended to two hours. The leaders expressed sincere interest in discussing their perception of the risks faced by the University, and seemed genuinely appreciative of the effort to work on managing them. We have been pleasantly surprised with the lack of resistance to the concept of ERM. Of course, we haven't really forced anyone to do anything!

Time management is a concern. Because this has been implemented on a project basis, with volunteers pulled from a variety of disciplines across the University, each with their plates already full-to-overflowing (including the project leader!), things have moved more slowly than I would have liked and definitely slower than our Senior VP would prefer. However, he has been patient and is pleased that we are moving forward.

Appendix C—How to Make It Work: ERM at Maricopa County Community College District

Maricopa County Community College District (by Ruth Unks, Risk Manager)

- Total Student Population: 220,085 (FTSE 69,582)
- Undergraduate Students: 220,085
- Employees: 10,000+
- Net Assignable Square Footage: 4,837,650
- Total Revenues: \$649,159,983

The Maricopa Community Colleges comprise ten public colleges, two skill centers and numerous education centers dedicated to educational excellence, meeting the needs of businesses and the citizens of Maricopa County. Each college is individually accredited, yet part of a larger system—the Maricopa County Community College District. The District is one of the largest higher education systems in the world and the largest provider of health care workers and job training in Arizona—a major resource for business and industry and for individuals seeking education and job training.

In November 1999, Dr. Rufus Glasper, Maricopa County Community College District (MCCCD) Chancellor, created a task force to identify the District's top risks. The task force identified 80 risks and prioritized them. In March 2000, the MCCCD Governing Board approved a project designed to assess these risks. In October 2003, Chancellor Glasper merged the enterprise risk management committee and the Risk Management Advisory Committee to ensure coordination and consistency in the comprehensive development of a strategy for risk management within MCCCD. The merger of these committees is called the Maricopa Integrated Risk Assessment (MIRA). On October 27, 2003, Chancellor Glasper assigned responsibility for MIRA to me, Ruth Unks, MCCCD Risk Manager, and asked that I develop and initiate a multi-year implementation plan.

Higher education is no longer insulated from the realities of constant change (if it ever was), and must transform itself to be more responsive to changing business environments and to its stakeholders. Business risks have increased, and it is imperative that MCCCD leaders understand and address those risks. This is done individually as well as across the organization. The MIRA project embraces a wider view of risk—Enterprise Risk Management (ERM), which enables personnel to collaboratively identify, assess and manage future risks and opportunities. This is done individually as well as across the organization. Chancellor Glasper has given the MIRA Committee general outcomes to accomplish. These include:

- Increased overall effectiveness and accountability
- Sound business processes; greater assurance of business continuity
- Clear demonstrated compliance with applicable laws and regulations
- Enhanced employee empowerment and pride
- Reinforcement of the strong Maricopa cultural identity
- Enhanced competitive advantage

A five-year implementation plan was developed to guide the MIRA project. The plan has five sections:

1. Project Planning
2. Evaluate MCCCDC's Environment and Strategy
3. Develop a Comprehensive Risk Framework and Process for Evaluating and Prioritizing Risks
4. Review Risk Financing/Mitigation Options
5. Develop a Risk "Nervous System" for Communication, Reporting, and Monitoring

Dr. Glasper established an ambitious benchmark for the plan—the achievement of the outcomes in the first year of operation, and for each subsequent year after that. He further specified that the plan include the preparation of an annual report for the Chancellor's Executive Council (CEC), comparing the planned and actual outcomes for the year, and submitted to the CEC by August 31 annually.

We encountered several specific challenges as we attempted to implement ERM. Some of the most significant were as follows:

1. Due to our culture, the silo approaches to project activities, and well-protected turfs, it may be difficult to garner the support of MIRA throughout the MCCCDC leadership groups (CEC, deans, and department chairs).
2. Initially, the "new" risk management language will be confusing to employees. A common language and definitions to fit our culture must be developed.
3. There is a perception that there is not a need for Enterprise Risk Management.
4. There is a lack of understanding about what ERM is; buy-in from employee groups may be difficult to achieve.
5. There may not be adequate resources (budget, staff time, etc.) to accomplish the tasks required for full implementation of MIRA.
6. Full integration of traditional risk management and ERM is a new concept; there are not a lot of model programs to follow, specifically for higher education institutions.
7. The traditional risk management program needs to be brought up to date.
8. Employees may not believe that they have adequate time to attend MIRA training, workshops, exercises, etc.
9. MIRA committee members may have difficulty allocating enough time to be fully involved in the MIRA committee initiatives.
10. The process to create and adopt administrative regulations is slow and may delay certain parts of the implementation.

Despite these challenges, the MIRA committee has achieved many accomplishments so far, including:

- Creation and implementation of an ERM implementation plan
- Establishment of the MIRA committee
- Development of a committee charge
- Adoption of a Risk Environment, Culture and Appetite Description
- Creation of Risk Register/Best Practices
- Creation and plotting of risks on a Risk Map
- Development of a mitigation plan to deal with risks
- Development of customized risk assessment tools
- Creation of a website
- Development of a marketing campaign
- Development of risk assessment training courses
- Adoption of an Administrative Regulation
- Publishing of four Annual Reports

The MIRA Committee continues to work towards its goals. Our many accomplishments to date have resulted from the collaborative efforts of many employees who have given their time, wisdom, and experience to make this project successful. By educating employees about risk management and giving them resources to identify and assess risks, employees are now empowered to make well-informed decisions regarding the opportunities and risks of new programs and activities, as well as being accountable for these decisions.

From a personal and professional viewpoint, as chair of the MIRA project, I have gained significant insight into the many risks and opportunities present in MCCCCD's daily operations. I am involved with our strategic planning committee, report regularly to the Audit/Finance Committee, meet annually with the Chancellor's Executive Council, meet with the Faculty Executive Committee, and I am involved with training all 10,000+ MCCCCD employees. I am no longer perceived as the "insurance person," but as the risk advisor, and employees no longer view risk management as a negative process.

MIRA's success depends on the coordinated and cooperative response from employees on every level—individually and collectively. One of the biggest lessons we learned is that we needed to have top-level support, commitment and participation. We were fortunate because our chancellor is the "champion" of our ERM initiative, and he has given the MIRA committee and me his full support. However, the support of certain key employee constituencies has been challenging due to a lack of understanding regarding risk management. By continuing to follow our implementation plan, step-by-step and little by little we will educate our employees so that they will deliver high-quality education to our students in a more efficient and cost-effective manner.

Appendix D—How to Make It Work: ERM at University of California

University of California (by Grace Crickette, Chief Risk Officer)

- Total Student Population: 214,298
- Undergraduate Students: 163,302
- Graduate Students: 45,884.
- Employees: 175,079
- Total Revenues: \$19,991,187,000 (2006)
- Total Organized Research Funds: \$3,035,949,000 (2006)
- Public/Private: Public

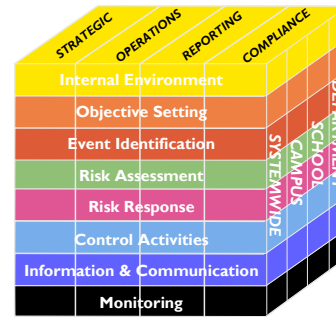
The University of California first opened its doors in 1869. Today, the UC system includes more than 214,000 students and more than 175,000 faculty and staff. UC's ten campuses at Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Cruz, and Santa Barbara foster world-class educational and research opportunities and generate a wide range of benefits and services that touch the lives of Californians every day. UC's five medical centers support the clinical teaching programs of the University's medical and health sciences schools and handle more than three million patient visits each year. The medical centers provide a full range of health care services in their communities and are sites for the development and testing of new diagnostic and therapeutic techniques. Collectively, these centers make up one of the largest health care systems in California.

The University has been moving towards an enterprise approach to identifying and managing risk, including financial, business, operational and governance risk, since 1996. As a leading institution of higher education and financial practices, the University of California is working to implement the Enterprise Risk Management framework advocated by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Our timeline worked this way:

- Regents adopt COSO framework (1996)
- Controller positions established at each campus (late 1990s)
- Several campuses develop ERM initiatives (2004–present)
- Chief Risk Officer (CRO) position established (December 2004)
- ERM Panel formed to develop an ERM strategy (June 2005)

The CRO was hired from the private sector and has experience in using the COSO framework in implementing ERM for private industry.

In the *Statement of Ethical Values* adopted by the Regents in May of 2005, the UC system indicates that “Internal controls are the processes employed to help ensure that the University’s business is carried out in accordance with these Standards, University policies and procedures, applicable laws and regulations and sound business practices. They help to promote efficient operations, accurate financial reporting, protection of assets and responsible fiscal management.... The University has adopted the principles of internal controls published by the Committee of Sponsoring Organizations (COSO) of the Treadway Commission.” As such, the adoption of the COSO ERM framework was the next logical step in creating an environment that looks beyond just internal controls related to the original COSO framework.



ERM Workgroups at UC

The campuses and medical centers in the UC system operate with a high degree of autonomy, and ERM efforts have been locally driven in large part. Many of the campuses already have ERM groups in existence. At some locations, the groups were created as part of other, ongoing ERM activities; at other locations, existing groups or committees have expanded their charters and range of activities to incorporate their ERM efforts. The longest-standing group, at UC Davis, has existed since 2003 and is a good example of how such campus- and medical center-based groups can effectively address risk across the enterprise. The members of each location’s ERM group come from multiple disciplines; at UC Davis the group is made up of representatives from more than a dozen different departments. This facilitates sharing of cross-disciplinary expertise and gives all members of the group a more complete understanding of the risks faced that might prevent UC Davis from completing its strategic plans. Groups usually include representatives from areas such as Risk Management, Materiel Management, Workers’ Compensation, Environmental Health and Safety (EH&S), Internal Controls, Internal Audit, and the Controller’s office.

Centralized ERM activities at UC are being driven by the Chief Risk Officer. The ERM Panel includes management representatives from Office of the President and the campuses. Panel membership currently includes the EH&S Director (UCOP), the Associate Vice President—Human Resources and Benefits (UCOP), the Vice President—Financial Management (UCOP), the UCOP Emergency Manager and Facilities Administration Coordinator, the Vice Provost for Research (UCOP), the Chief Risk Officer (UCOP), the Director for Systems Development (UCOP), the Associate Vice President—Information Resources and Communication (UCOP), University General Counsel (UCOP), UC Berkeley’s Chief of Police and Director of Public Safety, UC San Diego’s Assistant Vice Chancellor/Controller, the Controller for Agriculture and Natural Resources (UCOP), the University Auditor (UCOP), the Director of Financial Controls and Accountability (UCOP), and the Director for Research (UCOP).

The Office of Risk Services sponsors and coordinates other groups that are also addressing ERM issues. The University of California Risk Management Leadership Council (RMLC) is an organization of Risk Management senior leadership from throughout the UC system. RMLC workgroups have been formed to address risks and issues in the areas of Camps; Driver and Vehicle Safety; Fine Arts; Foundation and Support Groups; Student-Related Risks; Information Technology; Academic Personnel; and Volunteer Clinical Faculty. RMLC members also serve as liaisons to other system-wide workgroups, such as Ergonomics; Emergency Managers; Fleet Managers; Graduate Medical Education Committee; Hazardous Waste Action Group; Research Compliance Advisory Committee; Sports Recreation; Workers' Compensation; and TRIPSS (Field Safety/Travel).

The Office of Risk Services sponsors an annual Risk Summit that brings together UC employees from many various disciplines. Participants include Risk Management, Environment, Health and Safety, Emergency Management, Sports and Recreation, Workers' Compensation, Occupational Health, Disability Management, General Counsel, Human Resources, and others. Risk Summit 2007 was a two-and-a-half day event attended by more than 250 people. Each year attendance at the Risk Summit has increased as it is being expanded to bring in other players with a key role in achieving our goal. The event provided opportunities for education and training, updates on risk management issues, introducing and sharing new ideas, and creating awareness of the universal risks shared throughout the University, as well as providing the opportunity to strategize as a team on ways to reduce those risks.

Environmental Health and Safety sponsors eleven system-wide workgroups: Ergonomics; HWAG (Hazardous Waste and Action Group); Radiation Safety; Bio Safety; Industrial Hygiene/Lab Safety; Fire Marshal; Emergency Management; Environmental Management; Environmental Health; STEW (Safety Training and Education Workgroup); and Field Safety.

ERM Tools

RMIS System

The University retained KPMG International to assist us in reviewing existing programs and data to identify which components of the ERM framework are in place, which components need to be expanded or improved, and which components do not yet exist at UC and will need to be implemented. During a series of visits to each of the ten campuses and five medical centers within the UC System and the Division of Agriculture and Natural Resources (ANR), we met with more than 425 key stakeholders in areas such as employment practices, infrastructure and construction, student life, strategic sourcing, budget, safety and emergency preparedness, research, internal controls, IT risk, and more. In order to encourage participants to freely contribute their knowledge and concerns during the meetings, we chose not to use an anonymous voting system such as OptionFinder, instead using time-honored technology like flip pads and markers to record ideas contributed during the meetings. Using information from the stakeholder interviews, a preliminary list of more than 550 possible leading indicators (LIs) were identified, of which approximately 430 are unique—that is, not duplicated at any of the other campuses or medical centers. Although not all of these LIs can be tracked at this time due to limitations on data collection and gathering, the next stage of the project is to determine how those LIs can be effectively represented in a dashboard report housed in a Risk Management Information System (RMIS), which is being developed with the assistance of UCOP Information Resources and Communications. A draft report is being prepared which will include analysis of which LIs can or cannot be created using already-existing information. The RMIS will deliver dashboard technology for reporting ERM activity, a platform for monitoring risks and controls at the campus or medical center level, and the ability to have an ongoing risk assessment platform.

ERM Toolkit

We are working to make the ERM section of our webpage a central resource for ERM knowledge system-wide. It currently includes a library of documents and links to information, both internal and external, and an ERM “toolkit” that includes sample ERM group charters, work plans, strategic goal plans, surveys, and strategic risk assessments.

Challenges and success stories

Challenges to implementing ERM include UC’s size and decentralized nature, and the high degree of autonomy with which each campus and medical center operates. Local administration sees more clearly the ways in which their location differs from the others, while the more centralized perspective that OPRS has allows us to see the commonalities among the risks and challenges facing the locations. Rather than attempt to impose a top-down ERM program by Presidential or Regental decree, we have chosen a bottom-up approach. By making better use of data already being collected and risk management activities already in existence without imposing new requirements, we will be able to demonstrate the benefits of ERM to the locations and gain campus and medical center support for future stages of implementing ERM throughout UC.

We are working to develop a data warehouse that can manage information already being collected by various groups, existing programs, and initiatives throughout the system. Once consolidated in a single Risk Management Information System, the data can then be used with the COSO framework

to analyze processes, risks, and controls system-wide. Local ERM panels will have full use of this tool to aid in their risk assessments, monitoring of risk and controls, and producing business intelligence dashboards and reports. The local panels will be the owners of the RMIS system; the Office of Risk Services is coordinating and facilitating, not directing.

- In addition to the locations that already had ERM groups, in the last year three locations have developed new ERM groups: UC Riverside, UC Merced, and the UC San Diego Medical Center. And although UC Berkeley's group has not been officially formed yet, they are already doing ERM work. Here are some things that are happening at specific locations:
- In addition to developing their charter, UC Riverside's ERM group has developed a list of ERM objectives based on UCR's strategic goals. UCR's Controller will be conducting an ERM survey to assess departments' alignment with the ERM objectives. Committee members represent a broad array of administrative departments, plus a smattering of others including Office of Research, Health Center, Audit, etc.
- UC Merced's new ERM group is charged with advising the Vice Chancellor for Administration by collaborating to identify and manage the full range of risks UCM faces. Panel membership includes the Assistant Vice Chancellor of Business and Financial Services, the Director of Campus Recreation, the Controller, the EH&S Director, the Chief of Police, the Director of Purchasing, the Assistant Vice Chancellor for Human Resources, the Associate Vice Chancellor for Research, the Director of Institutional Planning and Analysis, and a designee from the Academic Senate. The Chief Risk Officer is serving on the Panel in an advisory capacity as they come up to speed.
- The UC San Diego Medical Center has determined that it will hold special sessions of the Senior Management Team (which has physician representation), which will be designated as the ERM Advisory Committee. Their charter, currently under development, includes a charge to disseminate through the clinical enterprise an understanding of the "upside" of risk—risk as opportunity, not merely hazard. Committee membership includes the UCSD-MC CEO, COO, CFO, Physician-in-Chief, CMO, CNO, the Corporate Compliance Officer, the Director of Human Resources, the Chief Risk and Safety Officer, and the Medical Group COO.
- UC Berkeley's ERM Initiative Steering Committee has not yet been formalized, but work is already underway. Work to date has focused on identifying risks, risk ownership, and data; future activities include development of comprehensive risk management policy, prioritization of risks, and increased communication with the campus community.

- UC Davis's ERM Group has been active since 2003 and has conducted enterprise risk assessments focused on risks that might prevent UCD from completing its strategic plans. The workgroup is made up of representatives from more than a dozen different departments.
- UC Irvine's ERM Council includes members from Materiel and Risk Management, Workers' Compensation, EH&S, Internal Controls, Internal Audit, and the Controller's office, and is reviewing membership to determine which other groups should be included (such as Academic Personnel). The Council is evaluating ERM techniques and working on ways to implement ERM into the UCI culture.
- The UCLA Controls Work Group was established by the Chancellor to provide oversight to the strengthening and maintenance of UCLA's systems of internal control and accountability. It meets on a regular basis to monitor campus control systems and help ensure the deployment of reasonable and understandable policies and procedures across the campus. The group has expanded its charter and range of activities to address ERM issues as well.
- UCSB's Control Advisory Committee's focus to date has been financial risk, but the group plans to expand into ERM activities.

ERM Advice and Lessons Learned

Rather than trying to create and impose one top-down program, our focus is on supporting the development and strengthening of the local ERM Panels. Seven campuses/medical centers have already formed ERM groups, without the "aid" of any particular policy. They have done so because they see a value in forming these groups and being proactive in managing their risk. Many of the locations that do not have official "ERM groups" have other groups or committees that are expanding their charters to include ERM, and groups are being created at the remaining locations. The ERM Panel, OPRS, and other internal and external experts will provide regular and ongoing support to the ERM groups in the way of consultation, presentations, and tools, but will not be the driving force behind ERM. ERM has become a "grass-roots" movement at UC, and "taking it too corporate" would be counter-productive.

Suggested Tools, References, and Resources for More Information

The following references materials are excellent tools for implementing Enterprise Risk Management on campus. They have been selected for their clarity in describing the ERM process and for the examples of specific tools they provide to aid in implementation. (Definitions of common terms used with Enterprise Risk Management can be found in the *Glossary of Terms* below.)

For basic references:

- *Enterprise Risk Management for Dummies*, distributed by the Risk and Insurance Management Society, Inc (RIMS) (Wiley Publishing, 2007).
- *Excellence in Risk Management II: A Qualitative Survey of Risk Management Programs*, co-published by RIMS and Marsh, Inc., 2005.

To better understand the origins of ERM:

- *Enterprise Risk Management—Integrated Framework; Application Techniques*, by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), 2004.

For references on implementing ERM specific to colleges and universities:

- *Achieving Goals, Protecting Reputation: Enterprise Risk Management for Educational Institutions*, by PricewaterhouseCoopers.
- *Developing a Strategy to Manage Enterprisewide Risk in Higher Education*, by the National Association of College and University Business Officers (NACUBO), 2001.

Maricopa County Community College District has implemented ERM on their campuses. For references specific to their implementation plan and an example of an annual report, refer to the link at <http://www.maricopa.edu/mira/communications.php> and look for these documents:

- *Implementation Plan for Maricopa Integrated Risk Assessment Project*, Maricopa County Community College District, by Ruth A. Unks, November 25, 2003.
- *Maricopa Integrated Assessment Annual Report*.

Where to find information and tools in the references cited above

	ERM for Dummies	Excellence in Risk Management	COSO	PwC	NACUBO	MCCCD Implementation Plan/Annual Report
COSO Framework			●			●
Management Support		●				
Campus Planning Process						●
Risk Assessment	●		●			●
Risk Maps	●		●	●		●
Case Studies	●		●		●	
Creating ERM Culture		●			●	●
Risk Communications			●			●
Monitoring ERM			●			●
Role of Internal Audit			●	●	●	
Best Practices	●		●	●		●

