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### Session II -

**Business Continuity Risk** Management... What do you do after the emergency?

**Business Continuity for Colleges & Universities** 

#### **Session Overview**

Presenter: Michael J. Corby, CCP, CISSP, PMP Senior Vice President & Practice Leader Business Continuity Risk Management, Marsh Risk Consulting-

Summary: This session will provide a brief overview of the components of a Business Continuity Risk This session will provide a brief over new of the components of a business community Risk Management Plan. Starting with a Business Impact Analysis that coincides with the creation of campus security and crisis response programs, it will address some quick and effective methods for identifying the technology components, processes, facilities, and key people that can assure a stable revenue stream, and can manage costs effectively despite events that can suddenly change the educational environment. The session will include discussion of how to provide consistent education for students, even when they are restricted from full campus access due to disease outbreak, damage to buildings or facilities, or major weather interruptions. In addition to providing education, the BCRM process includes campus life concerns, faculty and staff management, continuation of research projects and grant proposal, and general community service obligations. Participants will understand the basics of Business Continuity Risk Management including how to assess key educational business components, the meaning of terms such as Recovery Time and Recovery Point Objectives, considerations for I/T Disaster Recovery and establishing various Event Response and Management teams

#### Why Business Continuity Risk Management

- Recent events (Tulane University, Louisiana State, etc) and relevant threats (weather, terrorist, violence on campus, health pandemics) are forcing many schools to focus on business continuity. Overall higher education has done very little beyond emergency management planning. The possibility of a catastrophic event is now very real to them.
- In fact, most universities lag so far behind industry (financial services, manufacturing, healthcare, etc) that they are playing catch up to ensure that their institution survives a significant event.
- · Many institutes of higher education could be severely impacted by a catastrophic event. Many universities (particularly private) run the risk of bankruptcy if they lose just one semester of tuition.
- Due to limited budgets, creative solutions are necessary to address new threats (partnering with other institutions, information technology, distance learning) and experienced outside consultants are sought after to address the risk.
- · Limited budgets also drive the need to justify and prioritize alternate recovery strategies Full redundancy for all functions and information technology is not an option

### What has Higher Education faced in the last few years?

- Storms, bombs, civil unrest, bad press, suicide, terrorism, crime, criminal use of technology, greek and athletic related incidents, foreign exchange problems, mismanagement, arson, conflicts of interest - just to name a few
- Each has the potential to be a major problem or disruption with planning and exercising, many of these could also become minor incidents
- Being prepared is not just a nice-to-have it is expected. Not being prepared for these fores eable events is not an acceptable solution
- It's much more than evacuation of a building. Its keeping things running after that event (or in the terms of one university its what to do once the fire truck leaves).



#### **Key Concerns**

- "In the past we planned for the loss of a building, should we plan for a campus-wide outage?"
- "I was able to recover from the last disruption, but my response exceeded the maximum allowable downtime. How can I accelerate recovery?'
- · "I'm worried. Our faculty, buildings, students and technology are concentrated in a small area. How can I provide greater resil ency?'
- · "Our students and faculty assume and expect that we protect their personal data. How do we implement and enforce the necessary policies and controls with the least amount of disruption to the operations?'
- · "All we need is a business continuity plan. Why would I want you to conduct an impact analysis?'
- "A catastrophe would put me out of business. How do I develop a plan?
- Our plan addresses only information technology. How do we ensure resiliency for people, facilities and equipment?



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**Definition:** What is Business Continuity Risk Management?

#### **Business Continuity Programs**

- An organization's ability to foresee, prevent, respond, and manage adverse risk and events
- A seamless solution so employees can focus on delivering services
- An approach that is:
  - Risk-aligned with the organizational goals
  - Balanced with both corporate needs and service locations
  - Standards based and validated
  - Program planning for ongoing preparedness
  - Sustainable through a maturity-model
  - Potentially self-funding



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#### Get Started by Focusing on Impacts

Identify where key elements of your revenue are "At Ris

- STOP chasing threats you could exhaust your resources looking for ways to mitigate or preventing each one
- START thinking about impacts –when they happen, they all have some impact on your organization
- PROTECT your organization by focusing on where the impacts would be most severe - you need to determine what parts of your organization are most critical <u>and</u> "at-risk", <u>then</u> figure out ways to protect them

teps	Review	Resiliency Development	Impact Analysis	Strategy Selection	Plan Preparation	Testing Maintenance
ctions	Identify existing recovery strategies, risks, business issues, and gaps	Analyze supply chain     Purchase policies	<ul> <li>Identify critical process</li> <li>Recovery times</li> <li>Financial impact from outage</li> </ul>	Define recovery strategy options     Select strategy	Document recovery steps for business units	• Train employees









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### Identifying Risks

Effects:

MMC

- Claims
- Negative impact on reputation
- Direct loss of revenue
- Increase of insurance premiums
- Loss of assets and employees
- Regulatory sanctions

#### Inability to meet educational demands

External drivers:

- Increased regulatory requirements
- Audit committees, Trustees, Board of Directors
- Business Partners and insurers
- Reliance on third parties (IT service
- providers)

  New threats and risks (violence,
  - pandemic)
  - Increased natural disasters

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### Training, Drills & Excercises: Keys to Success

- Training:
- All employees Members of ERT\_CMT\_BCP
- Management
- Drills Practice specific skills
- Use systems & equipment
- Exercises: Familiarization
- Validation Identify deficiencies
- Types: Walkthrough
- Mobilization Execution



- **Options Available for Testing:** The Structured Walk-Through
- Structured walk-through ("role-play"):
- Paper evaluation of a portion of a BC plan without the expenses or personnel resources associated with a full test
- Scope can vary from a review of a portion of the BCP to a review of the entire plan.
- Objectives:
  - Verify the contents of the plan;
  - Prepare for simulation testing;
  - Train new members and create employee awareness;
  - Maintain preparedness while limiting use of resources;
  - Affirm that the strategy documented in the plan is viable;
  - Educate critical personnel on their responsibilities in a disaster;
  - Confirm that the information in the plan is current and accurate: and
- Identify areas of the plan that need revision or updates.
- Benefit is that it is cost-effective and non-invasive

### **Options Available for Testing:**

- Component Testing
- · (Usually) an off-hours exercise to test a particular segment of the recovery plan Differs from the structured walk-through in that it involves actual recovery
- activities Types of component tests include:
- Emergency notification test (call tree tests);
- Evacuation tests;
- Data center or application recovery test;
- Remote or dial-in access test: and
- Critical business function recovery test.
- Objectives:
  - Demonstrate accuracy of the execution of the plan;
  - Verify the appropriate operating and incident escalation procedures;
  - Train and increase awareness of personnel: and

Case Study:

Development

The Collaborative Approach to

**Business Continuity Plan** 

- Validate previous modifications of the plan including the DRP.
- Benefit is that it is non-disruptive and focused

#### **Options Available for Testing**

The Fully Mobilized "Drill" Integrated simulation/full operations test:

- Performed at the actual recovery sites
- Utilizes the backup resources (i.e., AS 400 systems and workspace)
- · Structured walk-through and/or a component test should precede Test transactions or replicated "live" transactions are processed
- · Reports produced (actual results) should be reconciled against expected
- results Objectives
  - Test entire plan or a portion of the plan under emergency scenarios:
  - Validate operational effectiveness and business unit interdependencies; and
  - Provide technical and administrative measurable results.
  - An exercise of this proportion is normally scheduled to take place after hours or during a weekend
- Benefit is that it requires inter-department coordination and is the best true test of the BCP

#### **Collaborative Program Description**

- · Cooperative approach allows for a single comprehensive approach based upon a model school template (which is developed during the pilot project of two or three institutions). The participating members will develop a unified program structure and approach, consistent strategies among the member locations and maximize internal (to the association) sharing of resources.
- Two Pilot Programs Urban & Rural Campuses
- · Utilize "Model School" based on information gained from the pilot programs for the remainder of the participating members
- · Conducted one week event at each Phase 2 school which included a training session for the campus business continuity leader, several group workshops with the departments/colleges, and concluded with a walk-through exercise based on a scenario that Marsh presents.
- · Sliding scale pricing model based upon the number of participants



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