Auditing the Corporate Business Continuity and Disaster Recover Plan

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Transforming Internal Audit to Drive Value
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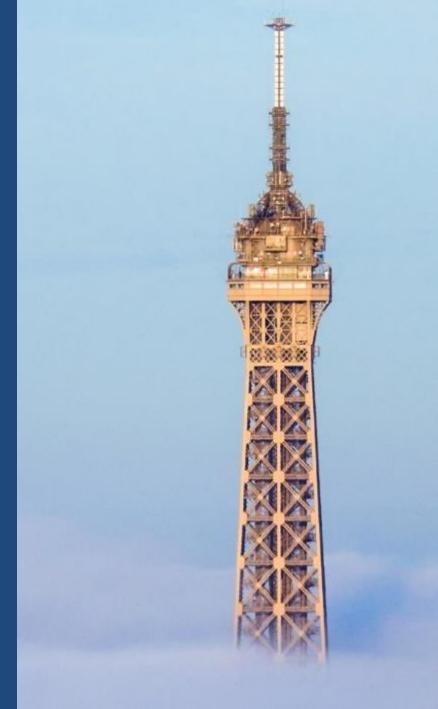


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Antony is a technology risk and cyber security services director passionate about empowering boards and senior leadership on the right questions to ask in order to gain true value from their technology investments.

His work experience is drawn from 15+ years serving clients in financial services, manufacturing, telecoms and the public sector, among others.

Nzamu's work has exposed him to the vast East Africa region and numerous African countries including Ethiopia, Malawi, Morocco, South Africa and Zimbabwe.





Agenda



Why build Business Resilience?

What does it entail?

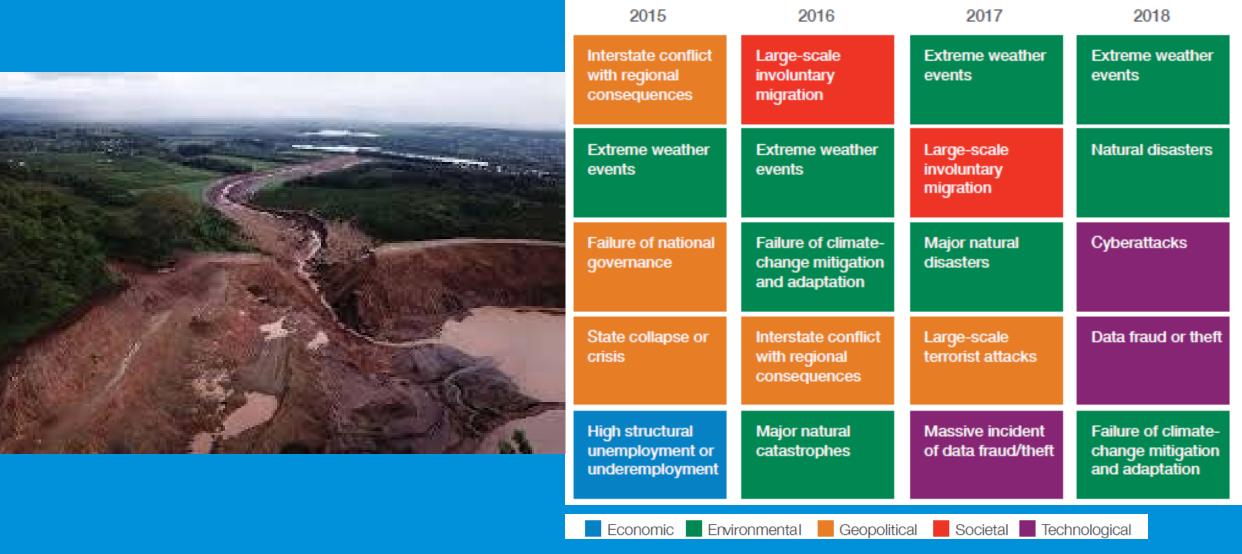
The role played by the Internal Auditor

Auditing for Business Resilience



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Top 5 Global Risks in Terms of Likelihood





Top 5 Global Risks in Terms of Impact





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The need for resilience

Today's highly connected and global organizations are facing countless threats of disruptions to business operations. While some risks can be monitored and mitigated, high-impact, hard-to-predict events are occurring more often than ever.

Natural disaster

Drought EDOla Flooding Earthquake Landslides

Human error



2010 Deepwater Horizon oil spill Building collapse

1986 Space Shuttle Challenger disaster

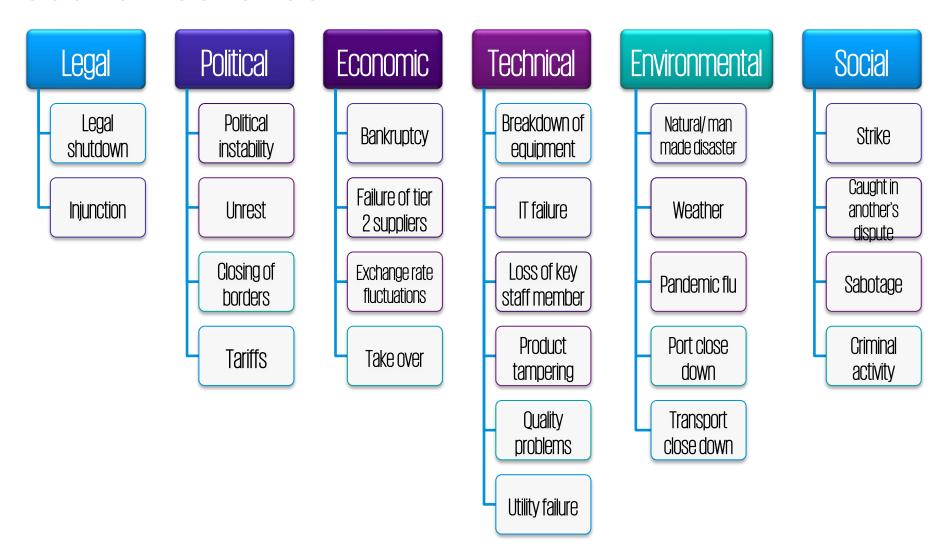


2013 Westgate Attack 2015 Garissa Attack

1998 US Embassy Bomb Attack

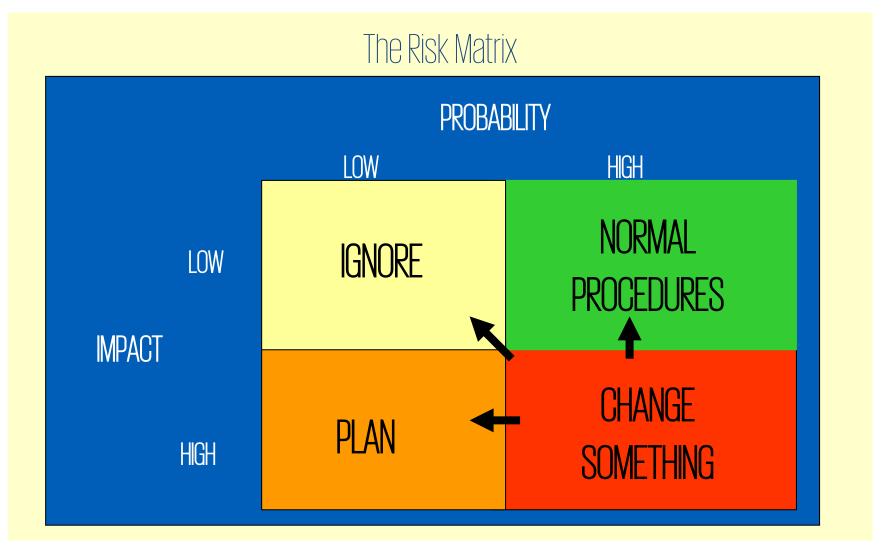


The need for resilience





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Business Continuity defined...

Business Continuity is:

The capability of an organization to continue delivery of products or services at acceptable predefined levels following disruptive incidents.

Source: ISO 22301:2012 Clause 3.3





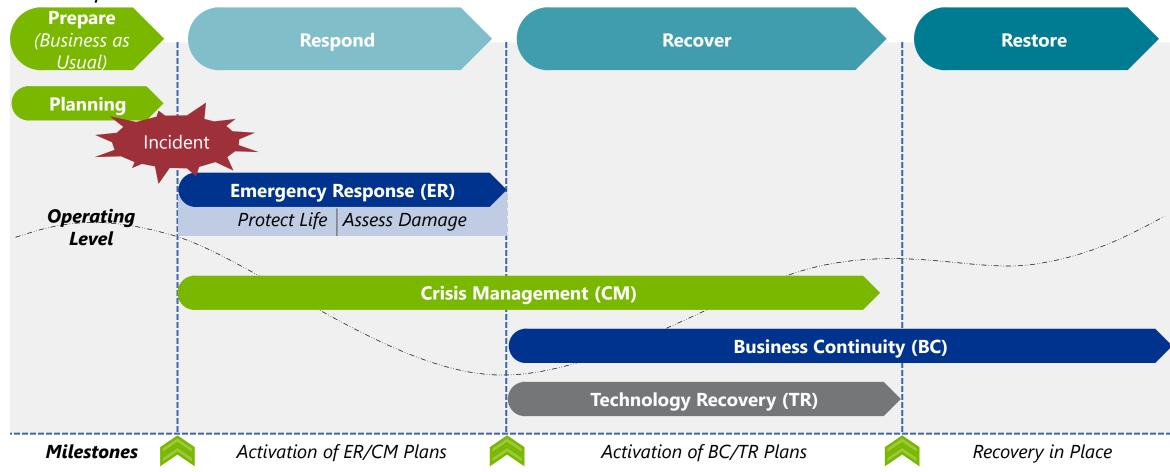
BCM capabilities

BCM is a holistic process that must focus on all aspects of the Organization. The BCM capabilities that must be put in place comprise:



Recovery event time line

An effective resilience program must include an integrated and coordinated approach among all aspects of the recovery event time line.







Business Continuity Planning

"It is **NOT** about trying to avoid bad things from happening to your business, but having a plan if they do"

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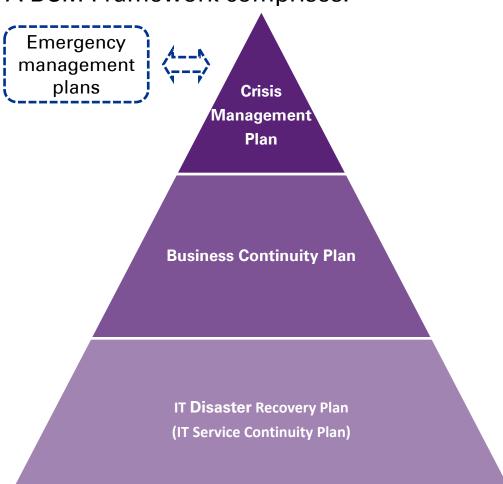
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BCM Framework

A BCM Framework comprises:



A **Crisis Management Plan (CMP)** outlines the immediate management level response to manage a crisis situation and recover critical operations. CMPs may include:

- Management roles and responsibilities, including escalation procedures
- Internal and external communication strategies, including stakeholder management
- Coordination with external recovery agencies
- Coordination with internal business continuity and recovery teams.

A **Business Continuity Plan (BCP)** outlines the procedures to follow during a major unanticipated disruptive event. BCPs may include:

- Business recovery strategies (what needs to be performed to continue critical operations)
- Contact lists
- Equipment requirements
- Personnel requirements.

An IT Disaster Recovery Plan (DRP) outlines the specific procedures required to recover or restore critical IT systems. A DRP can be incorporated either as part of a BCP, or more commonly is a separate document.



Understand what BCM is about

Enterprise **Business Policy PLAN** Continuity Office Risk Assessment **Business Emergency ASSESS** Continuity Response **Business Impact Analysis EMPLOYEE** Teams (BCTs) **Teams SAFETY** Risk Reduction Strategies DESIGN CUSTOMER IMPACT PROPERTY IMPACT Plan Development **IMPLEMENT IT Continuity** Crisis Mngt. **Teams** Team (CMT) (ITCTs) **EXERCISE** Test **BUSINESS - IT RESUMPTION** Maintenance Enterprise Executive **MONITOR** Awareness Crisis Mngt. Command Team (ECMT) Team (ECT Measure



The role of the Internal Auditor

Keep pace with the business

Involvement with BCP/DRP during formulation and/or update

Evaluate business continuity readiness and report this

Highlight the risk of a 'lacking' BCMS

Focus on "does the BCMS work" and not on existence



A resilience culture - what does it mean to you?





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Challenges to resilience

Lack of executive sponsorship and support

Heavy focus on plans and insufficient attention to education and establishing a resilience culture

Misalignment between the business and technology

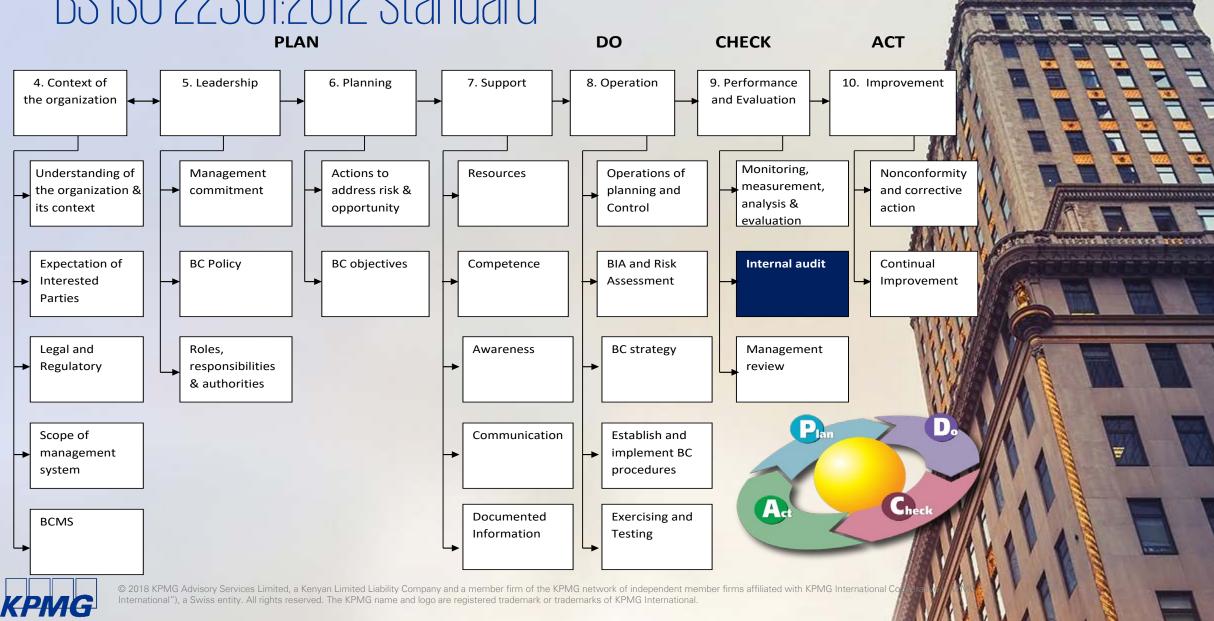
Lack of meaningful exercise development beyond table-tops

Lack of data analytics and inability to monitor risks to aid decision making

Challenges with BCM software tools



BS ISO 22301:2012 standard



Typical IA work-plan for BCM - high level

Scope/Area

Year One

Management has recognized the need for business continuity planning (BCP) program and has taken steps to establish and maintain such a program

Interim business continuity plans are sufficient to meet critical requirements should a disaster occur in the short-term

Business continuity plans are tested regularly and updated to reflect lessons learned and to address gaps and deficiencies identified in the tests

Documentation of business continuity plans is kept current

Overall BCP roles and responsibilities are clear

Reporting processes

Year Two

Business continuity plans are based on a thorough business impact analysis (BIA)

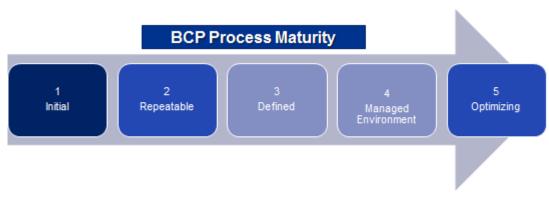
Critical business partners have appropriate business continuity plans

Business continuity plans consider and are linked to business planning processes.

Business continuity plans consider and are integrated with technology disaster recovery plans



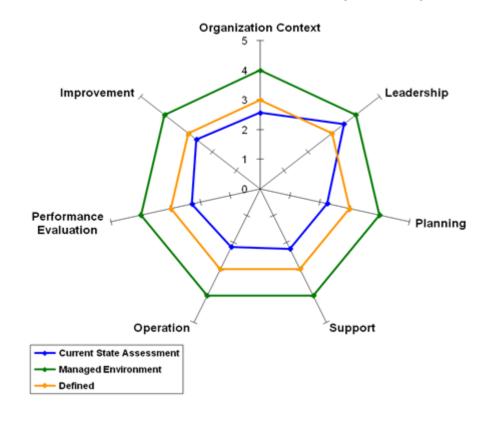
Reporting on BCM review - a health-check approach



Rating scale

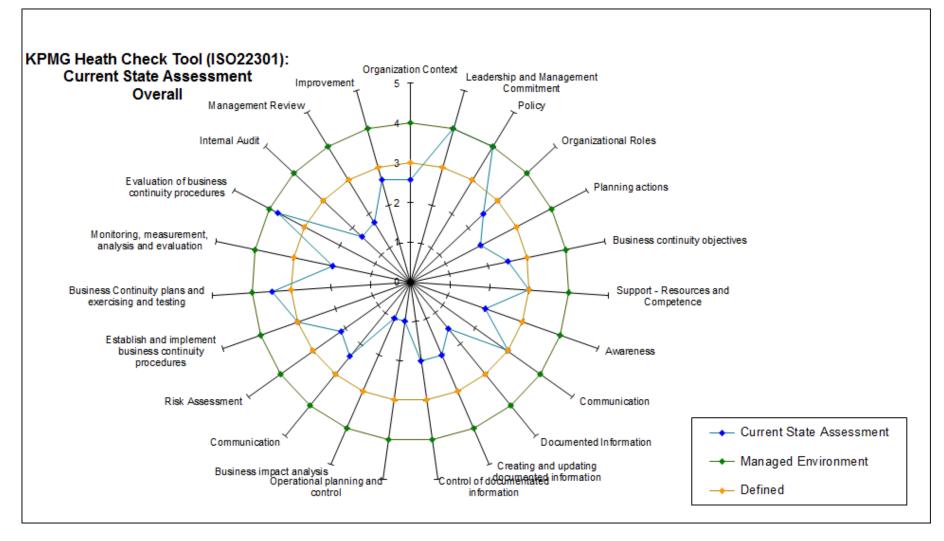
- 1.Initial Ad hoc processes exist
- 2.Repeatable Not documented but structured
- 3.Defined Formalized and documented
- **4.Managed** Integrated with other organizational processes
- **5.Optimized** Defined KPI's with monitoring mechanisms for continuous improvement and enhancement

KPMG BCP Health Check Tool (ISO22301)





Reporting on BCM review - a health-check approach (cont'd)





Understand stakeholder concerns

Board's perspective

Strategic objectives

- Do we have a BCM plan that can withstand any disruption?
- Is the BCM program adding value?
- Are BCM objectives consistent with Organisation objectives?
- Is the BCM strategy aligned to the organisation strategy?

CEO's perspective

Gaining competitive advantage

- Can I be in business without a tested plan?
- Can my business withstand a breakdown in processes?
- How would it impact corporate value? Our people? Reputation?
- What happens if we don't deliver on our service promise?

CIO's perspective

Delivering IT value

- Is the role of IT in business continuity management (BCM) clear?
- Are IT recovery requirements determined by the business?
- Am I confident we can withstand or respond to a cyber attack?
- Can we support the discovery process for intensive litigation?

CFO's perspective

Cost effectiveness

- Do I understand the cost of a business disruption?
- What is the right balance between purchasing business disruption insurance and building our own processes and tools?
- How do I know we have made costeffective BCM choices?



Key Success Factors of BCM

Plans must be written clear ly and consider Effective BCM programmes require the capabilities of team members during executive management support. significant business disruption. **Usability** Leadership **Clarity** Plans must be simple, usable and effective. BCM should be driven from business units. Staff should be able to pick up a plan and understand what they need to do. **Business Beyond Business** Continuity Information involvement Management **Technology** BCM focuses on the impact of major IT is critical but is just one part of a BCM disruption even when it is difficult to accept framework. the scenario. **Consider the** Change Practice impacts management BCM should be embedded as part of the change management process to build To be good at BCM requires a lot of practice. resilience in the organisation.







Critical Success Factors

An informed perspective

The internal auditor must bring to bear a perspective on BCM that transcends surface-level issues and speaks to an integrated view encompassing global best practices, emerging practices, an understanding of "common" practices in the industry yet also pinned to a maturity model which outlines the range of possibilities. IA should bring an understanding of the people, process, technology and governance dimensions critical to your success.

An understanding of your business

While no one will know the business better than management and employees, in conducting an IA review of your BCM program, you will be best served by an internal auditor that can rapidly understand the business, one that has some key relationships that will facilitate information gathering and the overall achievement of your objectives. The internal auditor must possess this understanding yet still retains the independence required to dutifully conduct this assessment.

Stakeholder involvement

Reviews of this nature will invariably lead to conclusions that validate the status quo in certain areas and recommend improvements in others. Active engagement with key stakeholders throughout the assessment will be required to ensure that consensus is built as the groundwork for change. The internal auditor must provide an approach that includes stakeholder involvement and alignment from day one.



Key BCP Criteria - Plan and Foundations

- Critical operational areas have been defined.
- 2 Key people critical to the operations of the business/department have been defined.
- 3 Critical skillset necessary to support the operational activities of the business have been defined.
- Equipment needs of the business/department have been defined.
- Adequate recovery work space has been defined and is available.

- 6 Key assumptions used as a basis for the plan have been defined.
- Key objectives of the plan have been defined and communicated.
- A documented business resumption plan(s) exist covering the entire enterprise.
- Sey timeframes within the recovery process have been defined, approved, and communicated.
- System needs that support the business have been defined.



Key BCP Criteria - Management Support

- Senior management support for the resumption plan and related process exist.
- 2 Senior Management reviews and approves Recovery Time Objectives (recovery windows 0-48, etc.) on a regular basis.
- Budget shillings and FTE's are specifically allocated to the business resumption process.
- A defined sponsor for the resumption plan has been established.
- A dedicated person has been assigned responsibility for the plan and planning process.
- 6 Management team participate in testing and simulation exercises.

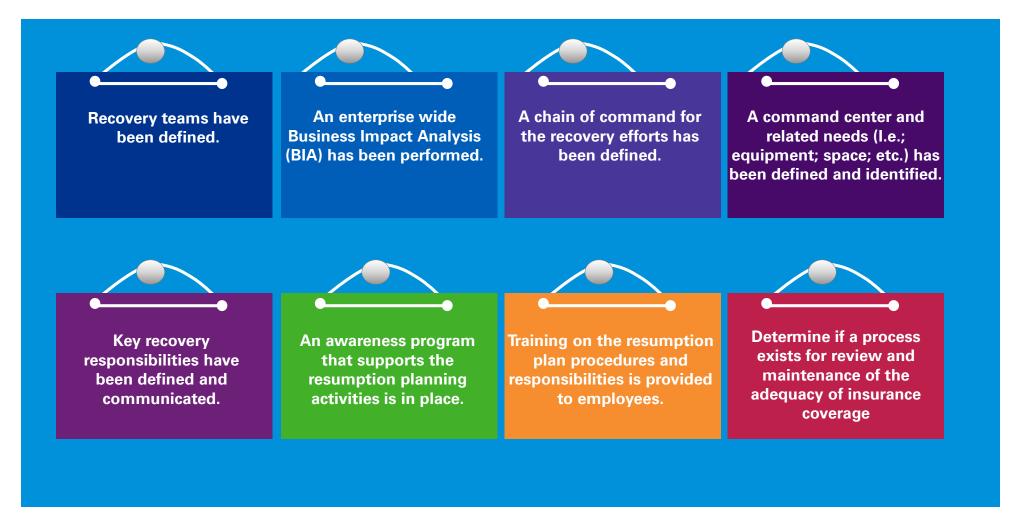


Key BCP Criteria - Quality Assurance and Change Controls

A change management process for the resumption plan has been implemented. A framework for management oversight A testing methodology that includes and monitoring for resumption planning objectives, criteria, and an approach has activities is in place. been defined and is in place. New Hires receive training or Periodic training is performed orientation related to their for all aspects of the plan. Results of tests are reviewed by departments recovery plan. Testing of the resumption management and incorporated plan has been performed. into the planning process.

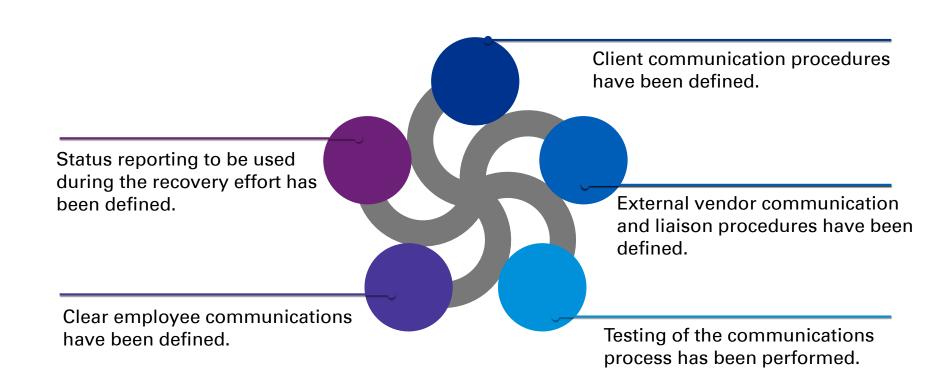


Key BCP Criteria - Structure, Organization, and Planning





Key BCP Criteria - Communication



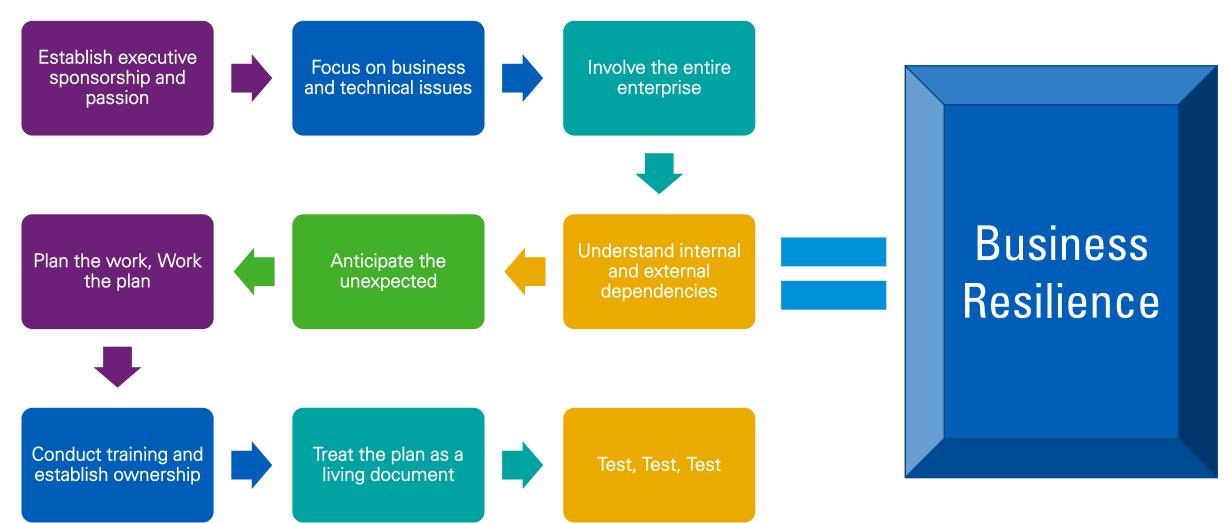


Key BCP Criteria - Other (Restoration, Vendor Plans)

Restoration activities that support return to the "home" site **Ascertain if management has** have been defined. obtained and evaluated the adequacy of contingency plans of its critical servicer(s). **Determine if the organization** Sensitive document handling has considered the impact of a procedures to be followed at the disaster on the vendors and alternate site have been defined. service providers side.



Ingredients for a successful plan





Thank you!

#CEOOutlook

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