

# IBM ASEAN Leadership Exchange

















# Deploying a Dynamic Infrastructure

Business Resiliency Priorities, Capabilities and Experiences





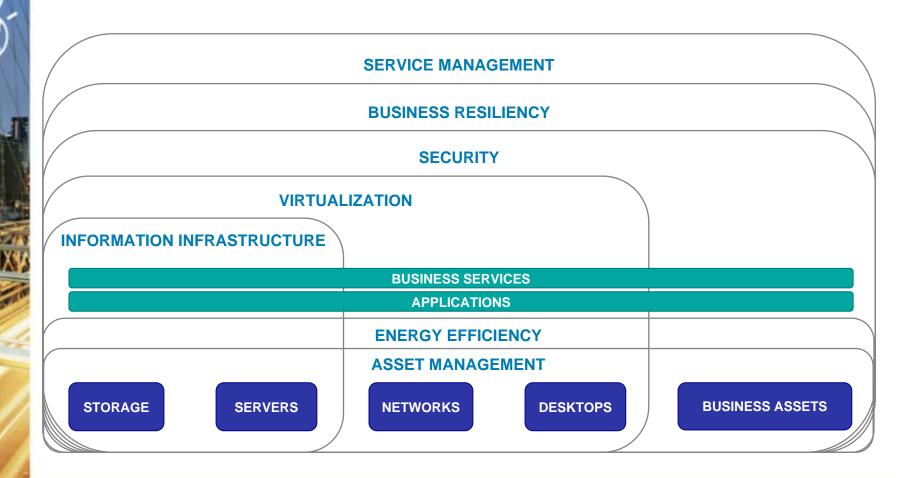
Business Resiliency Priorities, Capabilities and Experiences

- An overview of Business Resiliency
- How Business Resiliency is being exploited in the market
- How ISM Group applies Business
  Resiliency and Continuity
- Business and IT priorities for Business Resiliency
- How IBM is enabling Business
  Resiliency with our clients
- Current Business Resiliency capabilities
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# Business Resiliency delivers capability for a portion of infrastructure, applications and business services

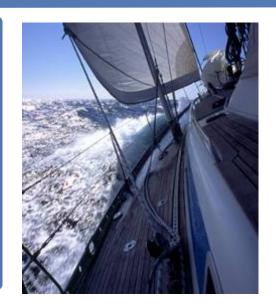


# **Business Resiliency**





... have continuous IT and Business Operations, while rapidly adapting and responding to risks, as well as opportunities. The outcome is to be a more trusted partner, and enable growth.



# Business Resiliency – the need

IBM.

The world is riskier, requiring businesses to seriously consider business resilience as part of the business and IT strategy.

#### Changing environment

- Expanding risk exposures
- Increased global and regional interdependencies
- Higher risks with complicated Supply Chains

#### • Heightened impact of business disruption

- Greater financial implications of downtime
- Brand vulnerabilities
- Data integrity requirements

#### More complex regulations

- Changing industry and regulatory standards
- Geographic dispersal requirements
- Varying regulations per country

# **ComputerWeekly.com**

Bacs system failure hits 400,000 salary payments Friday 30 March 2007 Up to 400,000 people will receive their salary three days late because the Bacs payment processing system - used by every bank in the UK - experienced a failure on

H1N1 flu watc



#### **LATEST H1N1 FLU STORIES**

16 new unlinked flu cases

Football team tests negative

M'sia shuts school

HK lists 65 new flu cases

30 Chinese students have flu



iTunes back to normal after holiday traffic quadruples ABC News:

December 28, 2006

US government loses hard disk

DigitalLife: May 2009

Singapore Grand Prix ticket system crashes due to incredible demand

Business and Law

Friday February 15, 2008 08:2



# **Business Impact**



- Downtime ranges from 300–1,200 hours per year, depending on industry<sup>1</sup>
- In some industries, downtime costs can equal up to 16 percent of revenue<sup>1</sup>
- For 32 percent of organizations, just four hours of downtime could be severely damaging<sup>2</sup>
- Online security attacks are accelerating, causing downtime and loss of revenue
- Business Resilience and Security are top areas of concern and spend for midsize businesses
- **Data is growing** at explosive rates—growingfrom 161 exabytes in 2007 to 988 exabytes in 2010<sup>3</sup>
- Some industries are enforcing fines for downtime and inability to meet regulatory compliance

<sup>1</sup> Infonetics Research, The Costs of Enterprise Downtime: North American Vertical Markets 2005, Rob Dearborn and others, January 2005.

<sup>2</sup> Continuity Central, "Business Continuity Unwrapped," 2006, http://www.continuitycentral.com/feature0358.htm

<sup>3</sup> The Expanding Digital Universe: A Forecast of Worldwide Information Growth Through 2010, IDC white paper #206171, March 2007



# Resilience Domain Functional Groupings









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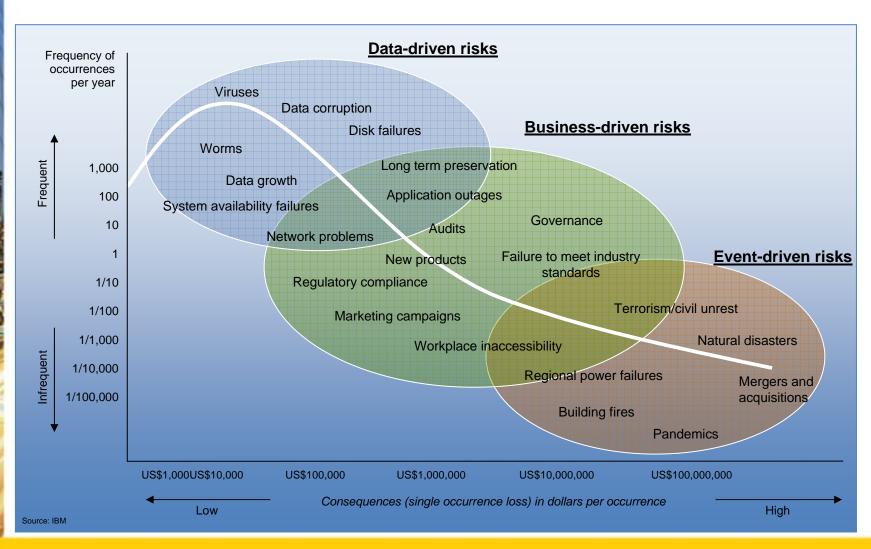
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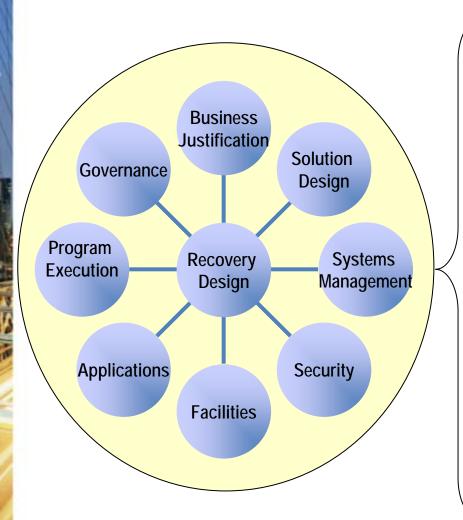
Risks Classification and Business Impact Low impact x high frequency == High impact x low frequency



# **Achieving Business Resiliency**



Key Considerations. Holistic approach.



#### Business and Financial Justification

- Identify business and regulatory requirements
- Identify all costs of internal solution vs current recovery solution costs and capabilities

#### Governance / Authority / Policies

- Communication, Mission, Discipline

#### Solution Design

- Functional Requirements
- Transition Plan & Processes
- Technological Considerations
- Process development & integration
- Test Plan

#### • Maturity of Systems Management Disciplines

- Problem, Change, Asset, Configuration, Incident
- Security
  - Physical and Logical
- Facilities
  - Location, Management, Security, Availability
- Application
  - Data Protection, Backup, Restart, Synchronization
- Program Execution
  - Reporting, Roles & Responsibilities, Public Relations, Business Integration, Plan Invocation





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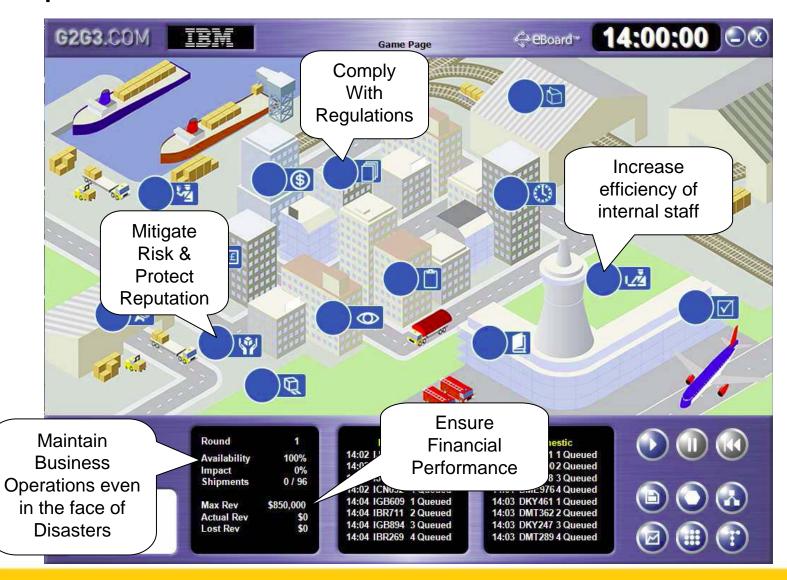
# <u>Agenda</u>

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# ISM Company: Business Resiliency Implications









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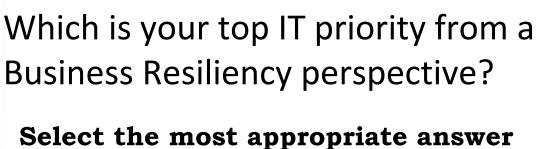




# Where does Business Resilience fit in your overall plan for business?

#### Select the most appropriate answer

- 1. Business Resilience is not a focus area for our business
- 2. Our Business views Business Resilience as an I.T. responsibility and allocates basic resources for improvements
- 3. Our business has an initiative in place to improve our Business Resilience
- 4. Business Resilience is part of our corporate strategy







- 1. Our focus in on basic Disaster Recovery
- 2. Our focus in on Information protection and Continuous availability
- 3. We have a Business Resiliency initiative focused on ensuring our critical business applications can sustain a significant event
- 4. Business Resiliency is a major part of our IT Strategy





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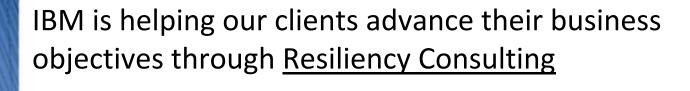


- Resilient hardware—servers and storage
- Implementation and optimization services
- Resilience management solutions
- Disaster recovery and work area recovery solutions
- Data recovery and information protection services
- Business impact analysis studies

- Resilient Business Infrastructure workshops
- Availability assessments
- Proactive managed maintenance services
- Virtualization solutions for improved resilience
- Service management solutions for improved resilience

#### **IBM LEADERSHIP**

- Forty-year history of providing resilient availability and recovery solutions
- Thousands of successful IBM resiliency solutions deployed worldwide
- More than 154 global resiliency centers in 55 countries with thousands of qualified IBM and IBM Business Partner consultants worldwide
- IBM hardware and storage designed for business continuity and recoverability, availability and serviceability
- Record of recovering 100 percent of systems for clients that have declared a disaster
- More than 3,400 information protection clients with data under management exceeding 24 petabytes

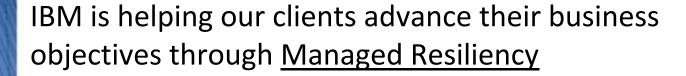




- Description: Offers a systematic approach to diagnose problems, prescribe prioritize actions, design solutions, implement the solutions cost effectively, and provide ongoing assistance to manage the action program.
- Client need: To keep the business running smoothly in the face of change, whether business events (acquisition), technology initiatives [shared services, data center consolidation, or service-oriented architecture (SOA)], or adverse events. This means reducing risk to effective operations from a range of threats to the business's people, IT, and infrastructure.

#### • Benefits:

- Provides a comprehensive view of risks to your key business processes
- Diagnoses potential root causes of failures
- Prioritizes actions to reduce risk based on business value
- Prescribes cost-effective actions to reduce risk and improve resilience





- Description: Helps clients by providing operational availability and integrity for their organization's critical processes functions and infrastructure, as required to make business decisions, measure performance, meet regulatory compliance mandates, and support governance.
- Client need: Improved resilience capability in the form of risk management, program governance, coordinated business and IT processes, procedures, communications, test management, and overall management that includes metrics to monitor the health and progress of the resiliency.

#### • Benefits:

- Necessary skills are in place to drive a more dynamic recovery program
- Reduced dependency on critical resources required to keep the business running
- Advanced metrics to demonstrate recoverability at all times



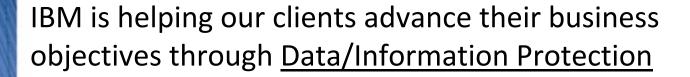
# IBM is helping our clients advance their business objectives through <u>Recovery Services</u>



- Description: Designed to allow businesses (IT and people) to get back up and running in the event of a major incident. IBM recovery centers are used for testing and disaster declaration. Dedicated support personnel are on hand to assist in the event of a crisis or disruption.
- Client need: Provide proven, out-of-region recovery capacity to protect against a local or regional outage in the event of a disruption to critical processing capabilities.

#### Benefits:

- Develop a fully functional, off-site recovery capability that provides business protection in the event of a local outage, regional outage, or both (IT and work area)
- Enable effective testing of the recovery solution using a combined IBM and client staffing model for execution
- Deliver a cost-effective mechanism to provide IBM and original equipment manufacturer (OEM) resources to cover multiple-platform recovery





- Description: Provides clients with a range of onsite, offsite, and hybrid data protection services.
- Client need: Improved operational efficiency, decreased recovery time objectives (RTOs), and increased recovery point objectives (RPOs) in response to evolving requirements for business continuity (BC) and disaster recovery (DR).

#### Benefits:

- Shorten data recovery time in the event of a disaster
- Reduce dependency\_on tape backup and recovery technologies and processes
- Lower long-term disaster recovery costs
- Enable more efficient use of internal IT staff

# **Business Resiliency adoption**



#### Manage risk with comprehensive resiliency

Adopt a business-driven strategic approach to resilience



- Start with a resilience assessment
- Leverage IBM's leading resilience expertise
- Implement the appropriate business continuity plan
- Implement an information protection solution to reduce costs, maximize efficiency and protect critical data

#### Reduce cost with proactive incident response

Reduce operational costs associated with outages



- Start with a business risk assessment to understand cost of risk exposures (including compliance)
- Leverage IBM's leading industry consultants to understand the specific regulatory requirements
- Understand resilience optimization solutions to improve responsiveness

#### Help ensure resilient service delivery

Effectively manage risk for key business services in a 24x7 world



- Start with a business impact analysis
- Determine where the current gaps are in continuity
- Determine where risk to data and inefficiencies lie
- Implement controls to address disaster recovery compliance requirements
- Review proactive maintenance policies

#### Respond with speed and agility

Gain real-time control over risk posture and exposures



- Determine where risk to data and inefficiencies lie Implement the right resilience strategy for each business process
- Review sourcing options for flexible response to business needs
- Review management and monitoring solutions for proactive response





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# Which best describes your current capability of remote site and equipment for Disaster Recovery (DR)?



#### Select the most appropriate answer

- 1. We do not have a documented DR plan, nor have we tested our preparedness
- 2. We have a DR plan in place, and have in-house skills to manage this, and have tested successfully, within the past 90 days
- 3. We have a DR plan in place, however that needs to be changed, implemented and tested, in line with new business/Regulatory requirements
- 4. We do recognize the need for a comprehensive solution to address our Disaster Recovery needs



# Which best describes your current capability in Service Continuity and Availability?



#### Select the most appropriate answer

- 1. We are focused on ensuring our physical infrastructure is available
- 2. We are focused on availability and recovery of critical applications
- 3. We are focused on ensuring continuity and availability of agreed to services and agreed service levels
- 4. Business service continuity is implemented and integrated with service level and IT finance.





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# Client results



#### **Banco Galicia**

Met a recovery time objective of less than 72 hours and a recovery point objective of up to 24 hours for critical data and applications

The added level of backup support improved the bank's ability to comply with Central Bank regulations—an improvement that will also help the bank grow.

#### Kroger

Eliminated the potential for lost tapes with a remote data protection that stores and updates system images

The company was able to ensure that current production levels of its key business platform operating systems would be available for a recovery exercise or an actual disaster.

#### **ArvinMeritor**

Contracted for an offsite, fully managed backup infrastructure to enable uninterrupted core operations even if the main data center and offices are down

In addition to providing a backup infrastructure and workplaces, IBM Business Resiliency specialists are ready to assist the company as it works to quickly recover data and applications.

#### **Bank of Montreal**

Became one of the first to adopt a new IBM timing technology that enabled sufficient distance between primary and backup facilities

The solution enables business restoration within two hours of a systems failure and is designed to enable a recovery point objective of zero via a backup center 100 kilometers away.