

## EARTHQUAKES AND INFORMATION IS YOUR ORGANIZATION READY?

### **CUBE Global Storage**

April 20th 2015

CUBE Global Storage Ltd.

#### Introduction

#### 

#### Agenda

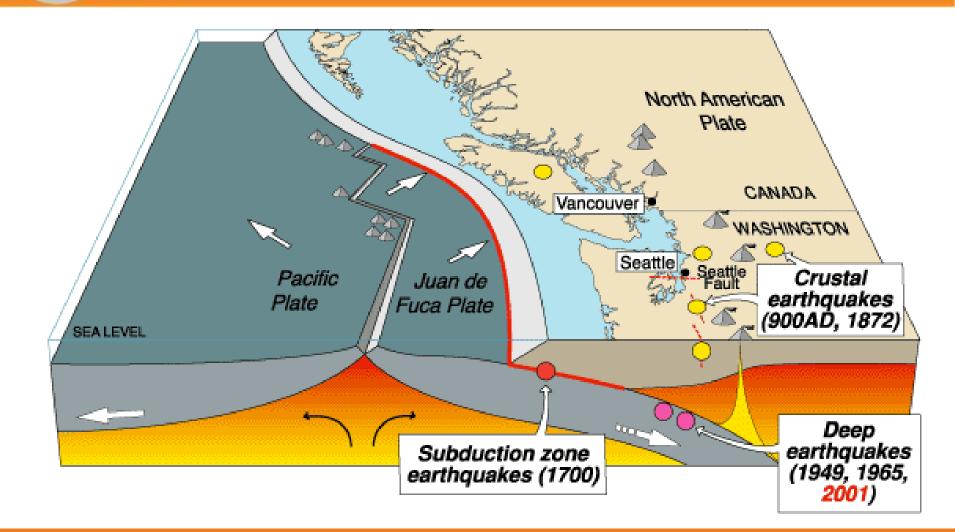
- Earthquakes in our area
- □ How to Approach DR/BC
- DR/BC Planning Considerations
- Discussion and Questions



- Vancouver Island located in the Cascadia Subduction Zone
- Risk of intraplate, crustal, and megathrust events
- Current estimates suggest a 30% chance of a significant damaging earthquake in the next 50 years.

#### Cascadia Earthquake Zone



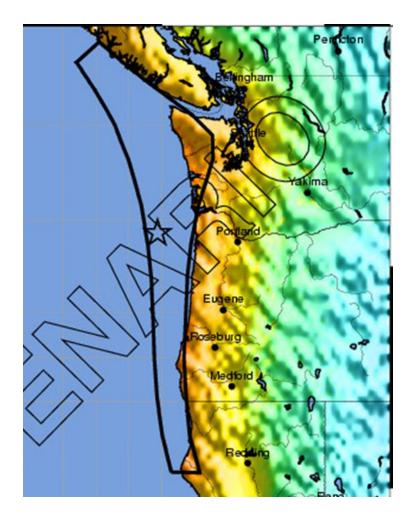


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#### Mega Thrust Quake

- Very large magnitude event 8 to 9+
- Very large area involved
- Long period waves
- Shaking lasts a long time (4mins or more)
- Very great tsunami potential
- Tall / large structures at risk
- Tends to generate landsides





#### **Cascadia Subduction Event**





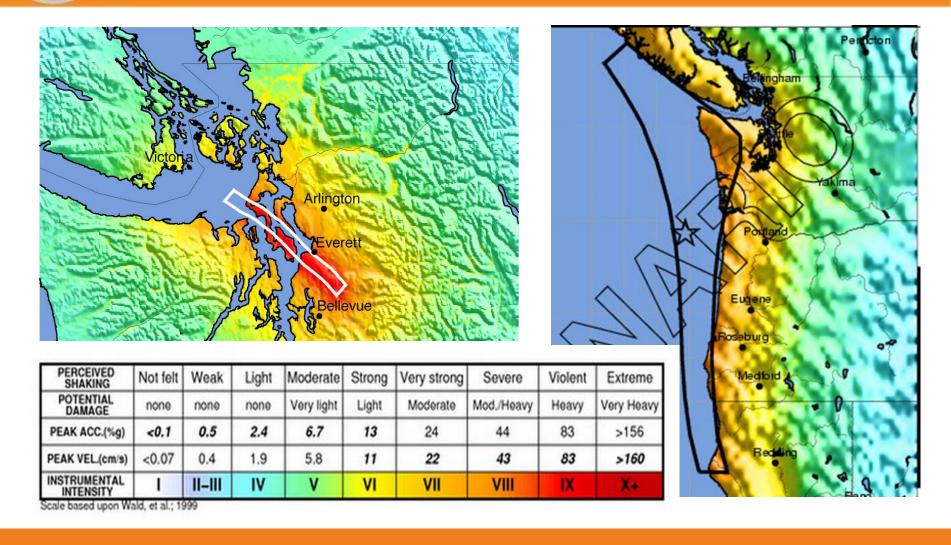
#### **Intraplate and Crustal Earthquakes**

- Tend to be shorter in duration.
- Can have a very high peak ground acceleration.
- Can be very damaging locally.
- Happen more frequently in our region.
- Currently the focus of Gov't EMP



#### Earthquakes

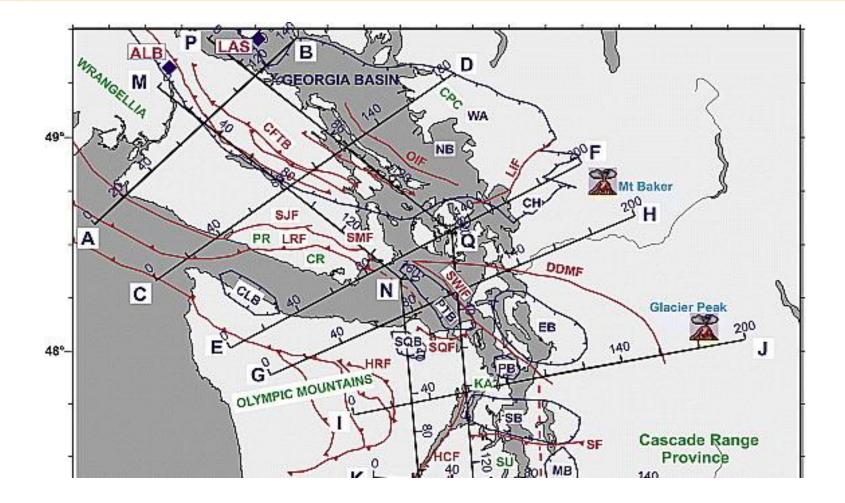








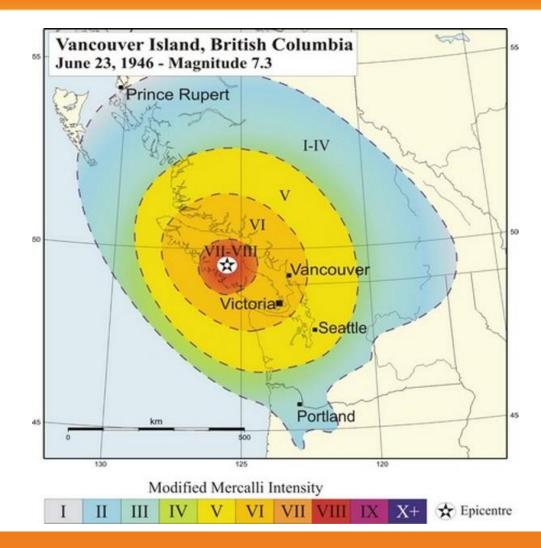
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### The 7.3 magnitude 1946 Vancouver Island earthquake was such an event.



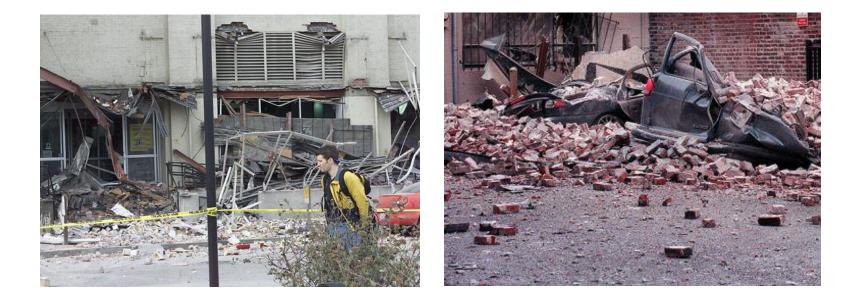


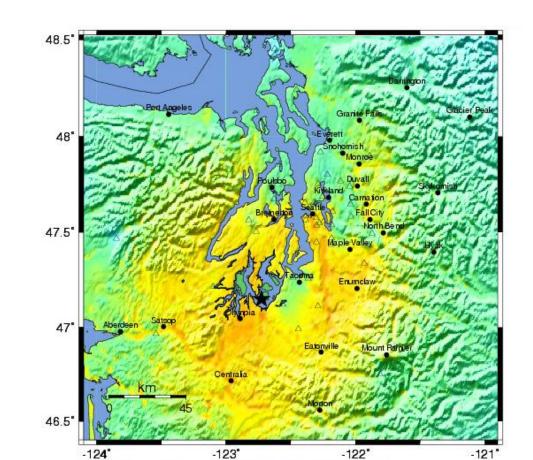


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#### **2001 Nisqually Earthquake**

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PERCEIVED SHAKING	Notfelt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL	none	none	none	Very ight	Light	Modera te	Modera te/Heavy	Heavy	Very Heavy
PEAK ACC (%g)	<.17	.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
PEAK VEL.(cm/s)	<0.1	0.1-1.1	1.1-3.4	3.4-8.1	8.1-16	16-31	31-60	60-116	>116
INSTRUMENTAL INTENSITY	I	11-111	IV	V	VI	VII	VIII	IX	X+

#### What to Expect

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#### Earthquake could result in:

- Structural failures
- Power outages, Gas Interruptions
- Water and sewer issues
- Transportation Disruptions
- Connectivity and Telephony outages
- Injuries and deaths
- Flooding Water Damage
- Fires



#### What will the Impact be:

- Diminished ability to access and share information
- Increased risk to the viability and/or security of stored information

The true impact to your organization is dependent on what your particular business functions are and what and your specific vulnerabilities are.

#### The Business Continuity Plan:

# Is a document that defines an organization's approach and processes for resuming business operations after a disruption.

#### At the minimum the BC Plan Consists of:

- Business Impact Analysis
- Risk Assessment

#### Disaster Recovery Plan

#### The BC Plan could also include:

- Business Continuity Policy
- Incident Management Plan
- Anything else your business decides to put in it.



#### **Business Impact Analysis (BIA)**

- Identifies each of your company's functions.
- Rates each function as to its importance.
- Defines how long the function can be non-operational.
- Defines the acceptable loss data for the function.



Literally anything that your business does

Start big and go small - identify dependencies Systems People Infrastructure



- Secure Document Storage (Physical)
- Secure Document Storage (Digital)
- **Document Conversion**
- **Document Destruction**
- **Disaster Recovery Space**
- Data Centre
- Off-site Backup (Physical)
- Off-site Backup (Digital)

#### Sales

**Customer Service** Invoicing Payment Processing Accounts Payable **Facilities/Fleet Maintenance** Inventory Management **Payroll and HR Activities** 



- Secure Document Storage (Physical)
- Secure Document Storage (Digital)
- **Document Conversion**
- **Document Destruction**
- **Disaster Recovery Space**
- Data Centre
- Off-site Backup (Physical)
- Off-site Backup (Digital)



#### Secure Document Storage (Physical)

- Secure Document Storage (Digital)
- **Document Conversion**
- **Document Destruction**
- **Disaster Recovery Space**
- Data Centre
- Off-site Backup (Physical)
- Off-site Backup (Digital)

#### **Secure Document Storage**

- Physical Storage of the Documents
- **Retrieving Documents**
- Picking up Documents
- **Reporting on Client Inventories**
- Monitoring and Reporting on Service Levels



#### **Secure Document Storage**

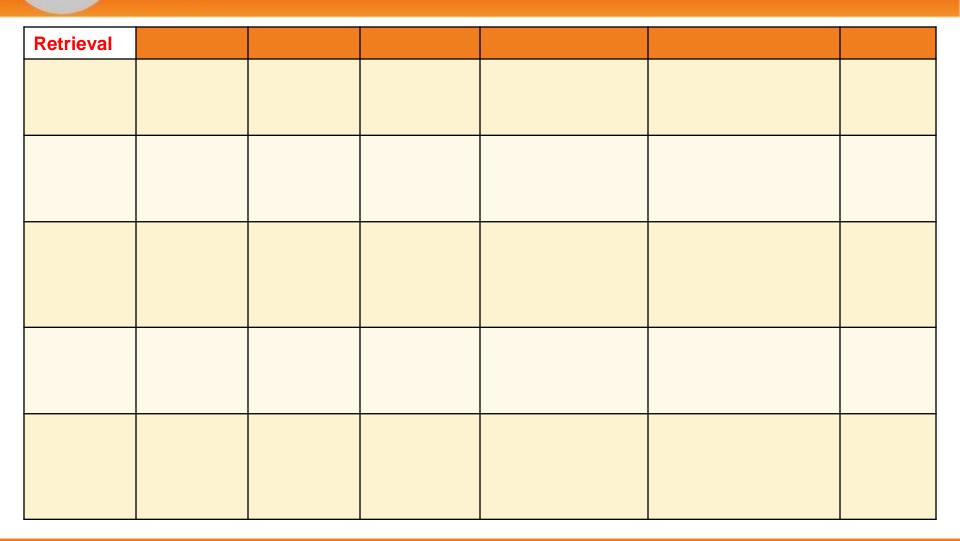
Physical Storage of the Documents

#### **Retrieving Documents**

- Picking up Documents
- **Reporting on Client Inventories**

Monitoring and Reporting on Service Levels







Retrieval			
Accept Request			



Retrieval			
Accept Request			
Validate Authenticity of Retrieval Request			



Retrieval			
Accept Request			
Validate Authenticity of Retrieval Request			
Locate and Retrieve Actual Box or File			



Retrieval			
Accept Request			
Validate Authenticity of Retrieval Request			
Locate and Retrieve Actual Box or File			
Delivery (Physical)			
Delivery (Electronic)			



Retrieval	People			
Accept Request				
Validate Authenticity of Retrieval Request				
Locate and Retrieve Actual Box or File				
Delivery (Physical)				
Delivery (Electronic)				



Retrieval	People			
Accept Request	Reception Staff			
Validate Authenticity of Retrieval Request				
Locate and Retrieve Actual Box or File				
Delivery (Physical)				
Delivery (Electronic)				



Retrieval	People			
Accept Request	Reception Staff			
Validate Authenticity of Retrieval Request	Retrieval Staff			
Locate and Retrieve Actual Box or File				
Delivery (Physical)				
Delivery (Electronic)				



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**Retrieval** People Accept Reception Staff Request Validate Retrieval Authenticity Staff of Retrieval Request Locate and Warehouse Retrieve staff **Actual Box** or File Delivery (Physical) Delivery (Electronic)



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Retrieval People Accept Reception Staff Request Validate Retrieval Authenticity Staff of Retrieval Request Locate and Warehouse Retrieve staff **Actual Box** or File Delivery Driver (Physical) Delivery Retrieval (Electronic) Staff



Retrieval	People	Place		
Accept Request	Reception Staff			
Validate Authenticity of Retrieval Request	Retrieval Staff			
Locate and Retrieve Actual Box or File	Warehouse staff			
Delivery (Physical)	Driver			
Delivery (Electronic)	Retrieval Staff			



Retrieval	People	Place		Other
Accept Request	Reception Staff	Front Desk		
Validate Authenticity of Retrieval Request	Retrieval Staff	Front Office		
Locate and Retrieve Actual Box or File	Warehouse staff	Warehouse		
Delivery (Physical)	Driver	Loading Bay		
Delivery (Electronic)	Retrieval Staff	Front Office		



Retrieval People Place Software Accept Reception Front Desk Staff Request Validate **Front Office** Retrieval Authenticity Staff of Retrieval Request Locate and Warehouse Warehouse Retrieve staff Actual Box or File Delivery Driver Loading (Physical) Bay Delivery Retrieval **Front Office** (Electronic) Staff



Retrieval	People	Place	Software		
Accept Request	Reception Staff	Front Desk	Outlook Web Portal Exchange		
Validate Authenticity of Retrieval Request	Retrieval Staff	Front Office	Records Management System		
Locate and Retrieve Actual Box or File	Warehouse staff	Warehouse	Records Management System		
Delivery (Physical)	Driver	Loading Bay	Records Management System		
Delivery (Electronic)	Retrieval Staff	Front Office	Outlook Conversion Software Exchange RMS		



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Retrieval People Place Software Hardware Front Desk Outlook Accept Reception Request Staff Web Portal Exchange Validate Retrieval **Front Office** Records Authenticity Staff Management of Retrieval System Request Warehouse Warehouse Records Locate and Retrieve staff Management Actual Box System or File Delivery Driver Loading Records (Physical) Bay Management System Delivery Retrieval Front Office Outlook Conversion (Electronic) Staff Software Exchange RMS



Retrieval	People	Place	Software	Hardware/Equip.	
Accept Request	Reception Staff	Front Desk	Outlook Web Portal Exchange	Fax, Phone PC Email Server	
Validate Authenticity of Retrieval Request	Retrieval Staff	Front Office	Records Management System	Fax/Phone PC Server	
Locate and Retrieve Actual Box or File	Warehouse staff	Warehouse	Records Management System	PC Bar Code Scanner Docking Station Genie Server	
Delivery (Physical)	Driver	Loading Bay	Records Management System	Bar Code Scanner Docking Station Van	
Delivery (Electronic)	Retrieval Staff	Front Office	Outlook Conversion Software Exchange RMS	Imagining Scanner Email Server	



Retrieval	People	Place	Software	Hardware	Infrastructure	
Accept Request	Reception Staff	Front Desk	Outlook Web Portal Exchange	Fax, Phone PC Email Server		
Validate Authenticity of Retrieval Request	Retrieval Staff	Front Office	Records Management System	Fax/Phone PC Server		
Locate and Retrieve Actual Box or File	Warehouse staff	Warehouse	Records Management System	PC Bar Code Scanner Docking Station Genie Server		
Delivery (Physical)	Driver	Loading Bay	Records Management System	Bar Code Scanner Docking Station Van		
Delivery (Electronic)	Retrieval Staff	Front Office	Outlook Conversion Software Exchange RMS	Imagining Scanner Email Server		



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Retrieval People Place Software Hardware Infrastructure Front Desk Power Accept Reception Outlook Fax, Phone PC Request Staff Web Portal **Connectivity (Internet) Email Server Phone Line** Exchange Validate **Front Office** Retrieval Records Fax/Phone Power PC Connectivity **Authenticitv** Staff Management of Retrieval (Intranet and Internet) System Server **Phone Line** Request Locate and Warehouse Warehouse PC Records Power Retrieve **Bar Code Scanner** staff Management Connectivity Actual Box **Docking Station** (Intranet) System or File Genie Server Delivery Driver Loading Records **Bar Code Scanner** Fuel (Physical) Bay Management **Docking Station** Roads System Van Retrieval Front Office Delivery Outlook **Imagining Scanner** Power **Email Server** (Electronic) Staff Conversion Connectivity Software (Intranet and Internet) Exchange RMS



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Retrieval People Place Software Hardware Infrastructure Other Front Desk Power Accept Reception Outlook Fax, Phone PC Request Staff Web Portal **Connectivity (Internet) Email Server Phone Line** Exchange Validate **Front Office** Retrieval Records Fax/Phone Power PC Connectivity **Authenticitv** Staff Management of Retrieval (Intranet and Internet) System Server **Phone Line** Request Locate and Warehouse Warehouse PC Records Power Retrieve **Bar Code Scanner** staff Management Connectivity Actual Box **Docking Station** (Intranet) System or File Genie Server Delivery Driver Loading Records **Bar Code Scanner** Fuel Insurance (Physical) Bay Management **Docking Station** Roads System Van Retrieval Front Office Delivery Outlook **Imagining Scanner** Power Email Server (Electronic) Staff Conversion Connectivity Software (Intranet and Internet) Exchange RMS



# Rate the relative importance of each business function

- Chose terminology that works for your business.
- Mandatory, critical, preferable, optional, etc.
- Plot on scale of 1-10, 1-5 etc.



Secure Document Storage (Physical) Secure Document Storage (Digital) Document Conversion 4 Document Destruction 5 Disaster Recovery Space Data Centre Services 10 Off-site Backup (Physical) Off-site Backup (Digital)

## Sales 5

Customer Service 8 Invoicing 6 Payment Processing 6 Accounts Payable 6 Facilities/Fleet Maintenance 7 Inventory Management 7 Payroll and HR Activities **10** 



Secure Document Storage (Physical) Secure Document Storage (Digital) Document Conversion 4 Document Destruction 5 Disaster Recovery Space Data Centre Services 10 Off-site Backup (Physical) Off-site Backup (Digital)



## Secure Document Storage (Physical) 10 Secure Document Storage (Digital) **10** Document Conversion 4 Document Destruction 5 Disaster Recovery Space **10** Data Centre Services 10 Off-site Backup (Physical) **10** Off-site Backup (Digital) **10**



## **Secure Document Storage 10**

- Physical Storage of the Documents **10**
- Retrieving Documents 9
- Picking up Documents 7
- Reporting on Client Inventories 6
- Monitoring and Reporting on Service Levels 5



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**Retrieval 9** People Place Software Hardware Infrastructure Other Front Desk 5 Outlook 10 Fax. Phone 10 Power 10 Accept Reception PC 10 Staff 6 Exchange 10 Connectivity (Internet) 9 Request RMS 6 Email Server 10 Phone Line 9 10 Front Office Validate Fax/Phone 10 Retrieval Records Power 10 Staff 8 PC 10 Authenticity of 5 Management Connectivity Retrieval System 8 Server 10 (Intranet and Internet) Phone Line 9 Request 8 PC 10 Locate and Warehouse Warehouse Records Power 10 Retrieve staff 8 10 Management Bar Code Scanner 7 Connectivity Actual Box or System 10 Docking Station 7 (Intranet) 10 File 10 Genie 7 (Internet) 1 Server 10 Driver 6 Records Bar Code Scanner 3 Fuel 8 Delivery Loading Bay Insurance 3 Docking Station 3 Roads 8 (Physical) Management 8 8 System 3 Van 8 Front Office Retrieval Power 10 Delivery Outlook 8 Imagining Scanner 10 (Electronic) Staff 6 Conversion Email Server 9 Connectivity 10 4 Software 5 Web Server 7 (Intranet 10 and Internet 6 Exchange 8 10) RMS 3



## **RTO (Recovery Time Objective)**

- How long before the process needs to be restored.
- Based on the MTD (Maximum Tolerable Downtime)
- Not always Achievable



Secure Document Storage (Physical) **2 Hrs** Secure Document Storage (Digital) 2 Hrs Document Conversion 1 Week Document Destruction **1 Week** Disaster Recovery Space Immediately Data Centre Services **Immediately** Off-site Backup (Physical) 2 Hrs Off-site Backup (Digital) **2 Hrs** 



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Retrieval Software Hardware People Place Infrastructure 2 hrs Front Desk Outlook 30 m Power 10 m Accept Reception Fax, Phone 30 m PC 30 m Staff Exchange 30 m Connectivity (Internet) 25m Request 30 m 30 m 30 m RMS 30 m Email Server 30 m Phone Line 25m Validate Retrieval Front Office Records Fax/Phone 90m Power 90m Staff 90m PC 90m Request Management Connectivity Authenticity 90 m System 90 m Server 90m (Intranet **90m** and Internet **2h**) Phone Line 90m 2 hrs Power 30m Locate and Warehouse Warehouse Records PC 10 min Retrieve staff 30m Management Bar Code Scanner 1D Connectivity 30m Actual Box System Docking Station 1D (Intranet) 20 m or File 30m 30 m Genie 20m Server 20m Driver Bar Code Scanner1D Loading Bay Records Fuel **90m** Delivery (Physical) 90m 90m Docking Station 1D Roads 90m Management 60m System 1D Van 90m Retrieval Front Office Outlook 2 hrs Imagining Scanner 2 hrs Power 2hrs Delivery Email Server 2 hrs (Electronic) Staff 2 hrs Exchange 2 hrs Connectivity 2 hrs 2 hrs 2 hrs RMS 1D Web Server 2 hrs (Intranet and Internet)



## **RPO (Recovery Point Objective)**

- Defines acceptable time period of lost data.
- Mostly applicable to IT processes.
- Again not always achievable.



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Retrieval Software Hardware People Place Infrastructure Accept Reception Front Desk Outlook NA Fax, Phone Power Staff PC Connectivity (Internet) Request Exchange **NA** RMS 1Day Email Server Phone Line Validate Retrieval Front Office Records Fax/Phone Power PC Request Staff Management Connectivity Authenticity System 3hrs (Intranet and Internet) Server Phone Line Locate and Warehouse Records PC Power Warehouse Bar Code Scanner Retrieve staff Management Connectivity Actual Box System **Docking Station** (Intranet) 3 hrs or File Genie Server Fuel Delivery Driver Loading Bay Records Bar Code Scanner (Physical) Management **Docking Station** Roads System 1Day Van Front Office Power Delivery Retrieval Outlook 1Day **Imagining Scanner** (Electronic) Staff Exchange **1Day** Email Server Connectivity Web Portal **1Day** Web Server (Intranet and Internet) RMS 1Day

## Create a list of threats to your business

- List everything imaginable
- Even extremely unlikely events
- Even ones you won't necessarily be able to responded to.

## DRP can help you recover from

- **Fires**
- Flooding

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- Theft
- Sabotage
- Data Loss
- Storms
- Terrorism
- Epidemics
- War

- Power Failure
- Transportation Failure
- Espionage
- Volcanoes



- By how likely it is to occur
- And by how severe an impact it will have on your business functions.
- Once again chose a scale that works for your business
- Use these numbers to assign a priority to planning for these risks



# Look at how each event might have an impact.

Fire – Loss of physical space, loss of information, damage to systems.

Epidemic - Loss of staff resources, loss of external or third-party resources.



- Map each of the potential risk events to each of your business functions dependencies.
- Start small and go big.

## **Risk Assessment**



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Retrieval People Place Software Hardware Infrastructure Other Front Desk Outlook Power Accept Reception Fax, Phone PC Request Staff Exchange Connectivity (Internet) **Email Server** Phone Line Validate Front Office Fax/Phone Retrieval Records Power PC Authenticity Staff Management Connectivity of Retrieval (Intranet and Internet) System Server Phone Line Request PC Warehouse Warehouse Locate and Records Power Management Bar Code Scanner Retrieve staff Connectivity Actual Box System **Docking Station** (Intranet) or File Genie Server Delivery Driver Loading Bay Records Bar Code Scanner Fuel (Physical) Management **Docking Station** Insurance System Van Roads Retrieval Front Office Outlook **Imagining Scanner** Delivery Power **Email Server** (Electronic) Staff Conversion Connectivity Software (Intranet and Internet) Exchange

## Risk Assessment



Retrieval	People	Place	Software	Hardware	Infrastructure	Other
Accept Request	Reception Staff	Front Desk	Outlook Exchange	Fax, Phone PC Email Server	<b>Power 10</b> Connectivity (Internet) Phone Line	
Validate Authenticity of Retrieval Request	Retrieval Staff	Front Office	Records Management System	Fax/Phone PC Server	Power Connectivity (Intranet and Internet) Phone Line	
Locate and Retrieve Actual Box or File	Warehouse staff	Warehouse	Records Management System	PC Bar Code Scanner Docking Station Genie Server	Power Connectivity (Intranet)	
Delivery (Physical)	Driver	Loading Bay	Records Management System	Bar Code Scanner Docking Station Van	Fuel Insurance <b>Roads 8</b>	
Delivery (Electronic)	Retrieval Staff	Front Office	Outlook Conversion Software Exchange	Imagining Scanner Email Server	Power Connectivity (Intranet and Internet)	



Power 
$$(4_{\text{likeliness}} * 2_{\text{impact}}) = 8$$

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Power 
$$(4_{iikeliness} * 2_{impact}) = 8 * (10_{importance}) = 80$$



Power 
$$(4_{iikeliness} * 2_{impact}) = 8 * (10_{importance}) = 80$$

Roads 
$$(4_{likeliness} * 10_{impact}) = 40$$

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Power 
$$(4_{iikeliness} * 2_{impact}) = 8 * (10_{importance}) = 80$$
  
Roads  $(4_{iikeliness} * 10_{impact}) = 40 * (8_{importance}) = 320$ 

## **Risk Assessment**

Threat Description	Likelihood	Impact	Rankin
Virus Attacks	81	66	5508
Computer (workstation failure)	86	61	5246
Network Failure – Branch Connectivity	77	68	5236
Computer (miscellaneous server) Failure	87	59	5133
Blackouts (wide area power outage)	72	72	5112
Network Failure (internal – LAN)	81	62	5022

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## Risk Assessment

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	Likelihood							
Impact	Rare	Unlikely	Possible	Likely	Almost certain			
Catastrophic	moderate	moderate	high	critical	critical			
Major	low	moderate	moderate	high	critical			
Moderate	low	moderate	moderate	moderate	high			
Minor	very low	low	moderate	moderate	moderate			
Insignificant	very low	very low	low	low	moderate			

#### **Risk Assessment**

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		SEVERITY = (MAGNITUDE - MITIGATION)						
	PROBABILITY	HUMAN	PROPERTY	BUSINESS	PREPARED-	INTERNAL	EXTERNAL	RISK
EVENT		IMPACT	IMPACT	IMPACT	NESS	RESPONSE	RESPONSE	
	Likelihood this	Possibility of	Physical losses	Interuption of		Time,	Community/	
	will occur	death or injury	and damages	services	Preplanning	effectivness,	Mutual Aid staff	Relative threat*
	0 = N/A	0 = N/A	0 = N/A		0 = N/A	resources 0 = N/A	and supplies 0 = N/A	
	0 = N/A 1 = Low	0 = N/A 1 = Low	0 = NVA 1 = Low	0 = N/A 1 = Low	0 = N/A 1 = High	0 = N/A 1 = High	0 = N/A 1 = High	
SCORE	2 = Moderate	2 = Moderate	2 = Moderate	2 = Moderate	2 = Moderate	2 = Moderate	2 = Moderate	0 - 100%
	3 = High	3 = High	3 = High	3 = High	3 = Low or none	3 = Low or none	3 = Low or none	
Communications Failure								0%
Electrical Failure: External								
or Utility Company								0%
Electrical Echanol Internal								
Electrical Failure: Internal								0%
Electrical Failure: Internal								0% 0%
Elevator Failure								
Fire Alarm Failure								0% 0%
Fire, Internal								0%
Flood, Internal								0%
Fuel Shortage Generator Failure								0%
Generator Failure								0%
Hazmat Exposure, Internal								0%
Helipad Disaster								0%
HVAC Failure								0%
Information Systems Failure								0%
Medical Gas Failure								0%
Natural Gas Failure								0%
Sewer Failure								0%
Steam Failure								0%
								0%
Structural Damage								0%
Supply Shortage								0%
Transportation Failure Water Failure (External)								0%
Water Failure (External)								0%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
AVERAGE SCORE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%

#### TECHNOLOGIC EVENTS

\*Threat increases with percentage.

RISK = PROBABILITY \* SEVERITY 0.00 0.00 0.00

#### Risk Assessment

LIKELIHOOD	5	10	15	20	25					
	4	8	12	16	20					
	3	6	9	12	15					
	2	2 4		8	10					
	1	2	3	4	5					
		CONSEQUENCE								

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#### Now its time to build the DR Plan

- Identify and Document the steps needed to recover from the event.
- Look at each component within the business function and build the process that will allow you to recover that function within the RTO
- Prioritize by the information created in the BIA and RA

#### Why have a Disaster Recovery Plan?

- Very hard to recover without one
- L It will help you resume operation faster
- Will keep you focused
- Identifies priorities
- Will keep you from panicking
- Reduce the risk of your business failing
- Might be required by other organizations

#### **DR/BC** Committee



- Establish a DR Committee
- Build it from a cross section of your organization or department
- Identify who drives the Process
- Identify those who will need to buy-in



#### **Human Resources**

- Who does what?
- What happens if a resource is unavailable?
- Contingency Resources
- Job sharing/shadowing



#### Human Resources

- Responsibilities
- Reliability
- Contingency Resource Planning
- Communications
- Transportation
- Where will they work?



#### Human Resources

- Create Personnel Preparedness Plans
- Provide Training and Resources
- Provide Emergency Supplies
- Both for work and home
- Consider Contingency Lodging
- Authorities suggest self-sufficiency for 72 hours - Plan on more!



#### Workspace

- Where will you work if your primary place of business is inaccessible?
- How much space do you need?
- How quickly do you need it?



#### Workspace

- Disaster Recovery Centres
- Portables
- Other Locations within the Organization
- Reciprocal arrangements with other Organizations
- Hotels
- Home
- Combination of the above solutions



#### Workspace

- Leasing
- Rebuilding
- Purchasing



#### Insurance

- Talk to your Broker
- What is covered?
- Document what you have
- Document what you spend during a recovery.



#### Financial

- Plan for loss of revenues
- Plan for increase in expenses
- Plan for reduced or interrupted cash flow
- Contingency funds
- Emergency cash reserve.



#### Information Technology and Communications

- Perhaps the most critical part of your BC/DR planning
- The most likely part of your business functions to experience a "disaster"
- Difficult if not impossible to recover from if you haven't planned in advance.



#### Information Technology Disasters

- Everything that the rest of your business functions are subject to plus......
- Viruses, application failures, hardware failures, hacking, file and database corruption, etc.
- These risks to IT in turn threaten your business functions that rely on IT.



#### **Information Technology Disasters**

- All data should be backed up.
- Use your RPO to determine backup interval
- You can use different backup strategies for different data sets
- Use multiple strategies to provide the greatest level of protection



#### Backups can be:

- Onsite and Offsite
- File or imaged based
- Cloud or Physical
- Mirrored environment
- Archiving for long term protection
- Combination of any or all of the above



#### Backups are only half of the process

Recovery is the other

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- Driven by your RTO
- Practice and practice often





## Think about Information Security Issues when addressing data backup



#### Communication

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- With your employees
- With your clients and constituents
- With your suppliers



#### Communication

- Redirected Lines
- Cell Phones
- Texting

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Satellite

### Radio

Social Media



#### **Third- Party Dependencies**

- How resilient are others that you depend on?
- Infrastructure, Suppliers, Service Providers
- Ask them about their BC/DR preparedness and planning

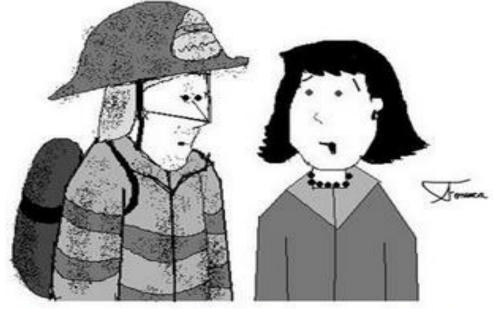




#### **Keeping the Plan Accessible**

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WHILE YOU WERE IN THE BUILDING, DID YOU COME ACROSS A BIG BINDER TITLED "BUSINESS CONTINUITY PLAN"?



#### **Keeping the Plan Accessible**

- Somewhere Safe
- Multiple Copies in Multiple Locations
- Consider any other documents you might need

Copies of Insurance Policies

- Instruction Manuals
- **Financial Information**



- Designate authority to activate the plan
- Define the triggers that will cause the plan to be activated.
- Balance process with judgement.
- Adopt an approach that works for your business.
- When in doubt activate



#### **Emergency Kits**

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- □ For your self, your staff, and the business
- Place them somewhere they will be accessible.



- Designate authority to deactivate the plan
- Define the triggers that will cause the plan to be deactivated.
- Balance process with judgement.
- Adopt an approach that works for your business.
- When in doubt leave activated



#### **Ongoing Commitment**

- Regular reviews (once a year)
- Introduction of a news business stream
- Significant change to an existing business process
- Change in staff



# Testing your PlanFrequencyLevel of Detail



#### **Questions?**