Cybersecurity Preparedness: Disaster Recovery Best Practices

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Myths:

- **Size**
- **Industry**
- **Duration**

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Cybersecurity Issues

- Phishing Attacks
- Spearphishing Attacks
- Ransomware
- Internal Sabotage
- External Hacking
- Trade Secrets
- Personally Identifiable Information
- Financial Data

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5 Planning Tips for Businesses

- Strong Password Management
- Proactive User Training
- Cloud Diligence
- Tactical Planning
- Response and Recovery Plan

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#1 Passwords: 1st Line of Defense

- Policy – in writing and automated
  - Length: at least 12 characters
  - Strength: UPPER, lower, numbers, special
  - Expiration: no more than 90 days
  - Factors: TWO (for all systems, especially cloud)
  - Sharing: NONE (unique password per user per acct)
  - Management Tool: YES (secure storage and access)
  - Lock-outs for consecutive unsuccessful attempts

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#2

Users: the Weakest Link

- Everyone has a responsibility for Cybersecurity
- They need continual training to learn, understand, and practice these responsibilities:
  - Policies, then training
  - Phishing
  - Ransomware
  - Data Security
  - Email safe usage
  - Social media usage
  - Passwords
  - Devices

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#3

Cloud: Tread Carefully

- Due Diligence before signing up
  - SLA
  - Data, Data, Data
  - Who owns it, who retains it, for how long, and where?
- Watch out for free services – no critical or sensitive data
- Pay for higher tier with additional features:
  - User roles
  - Encryption
  - Backup
- Look for optional add-ons for extra security:
  - e.g. Office 365 with Advanced Threat Protection
  - Two-factor authentication

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#4

Tactics: Planning your Defense

- Proactive mindset that requires continual effort
  - Outsource if necessary
- Develop layered security approach:
  - All devices (Bring Your Own Device)
  - Privileges (Least Privileged Access, remove local administrative rights)
  - Servers (on-premises, hosted/cloud)
  - Applications (patches, updates)
  - Network (firewall, content filter, DNS watch list, etc)
  - Storage (encryption)
  - Website (encrypted and protected)
  - Back-ups vs. sync (multiple copies, multiple locations, and testing)
- Monitor:
  - Identify logs and review them regularly
  - Automate
- Adjust as you read, learn, and experience issues

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#5 Response Plan: If all else Fails

- Disaster Recovery Plan for IT Systems
- Data Breach Response Plan:
  - Detection
  - Notification
  - Remedy
  - Documentation
  - Crisis Management
  - Root Cause Analysis
  - Adjustments to prevent future recurrences

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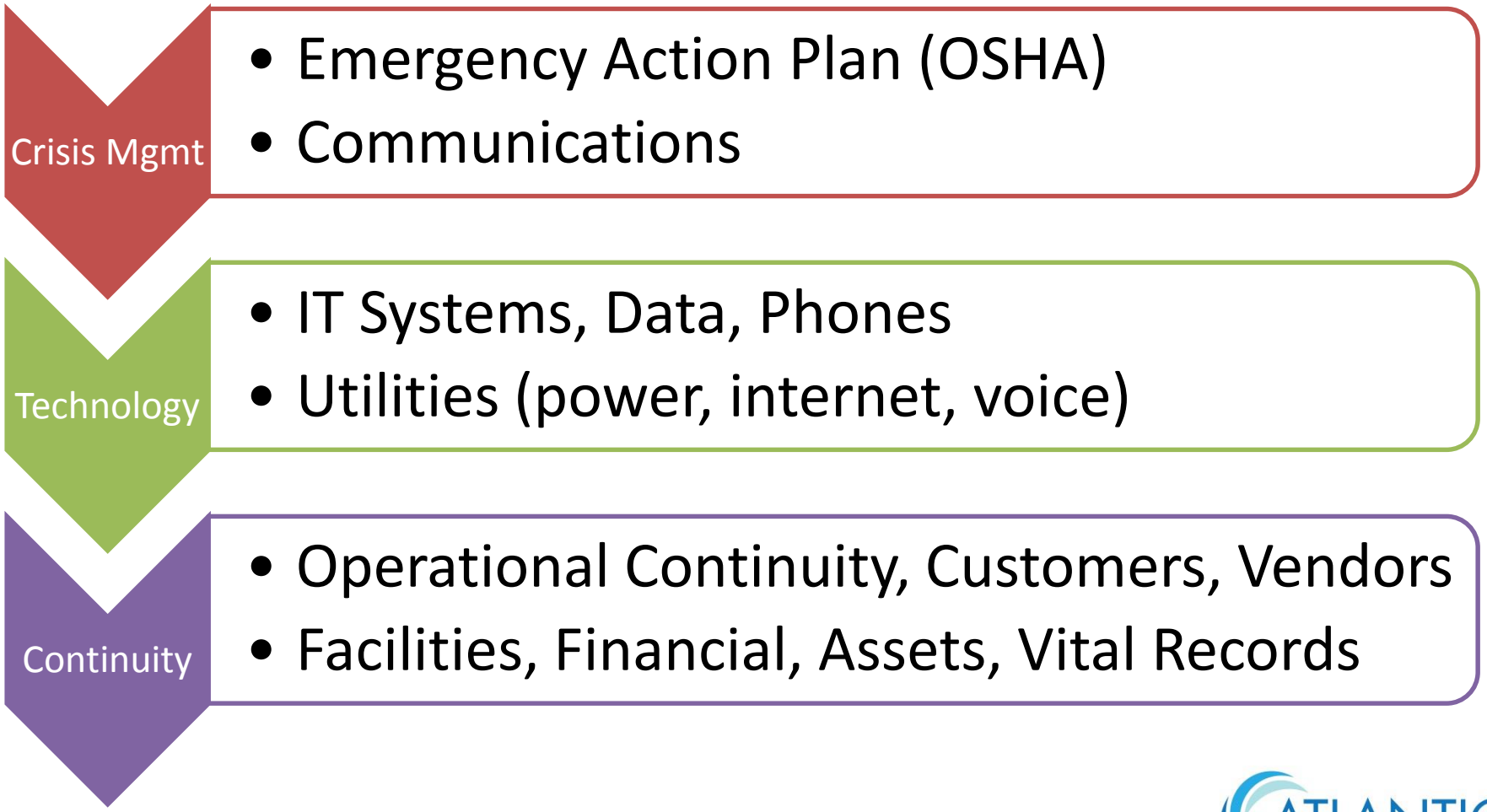
Business Continuity Elements



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Recent Lessons Learned

- Integrating plans with County OPCONs
- Re-entry procedures
- Proactive communications
- Advance team for evacuation – early reservations
- Flexibility in plans and schedules
- Well-trained and redundant staff

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Procrastination is a problem when it comes to doing my disaster plan. As a business owner I have a lot to do. It's not like a disaster is going to happen tomorrow. Besides, we have that new business pitch. I've been waiting for this to happen for a while now. I'll get the disaster plan finished eventually. Nothing to worry about, it'll happen.

Whether natural or man-made, at least one in four businesses affected by a disaster never reopen. Though emergencies are unpredictable, when you have a plan in place you can adapt, recover and stay in control.

It's never too late to protect your business until it is.

Make a plan.

Ad Council

READY.GOV

Ready Business

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Questions?

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