What's covered here?

- Disaster Recovery Concepts
- Disaster Recovery Strategy

Define Disasters

- Two Types of Disasters
  - Natural
  - Man-made
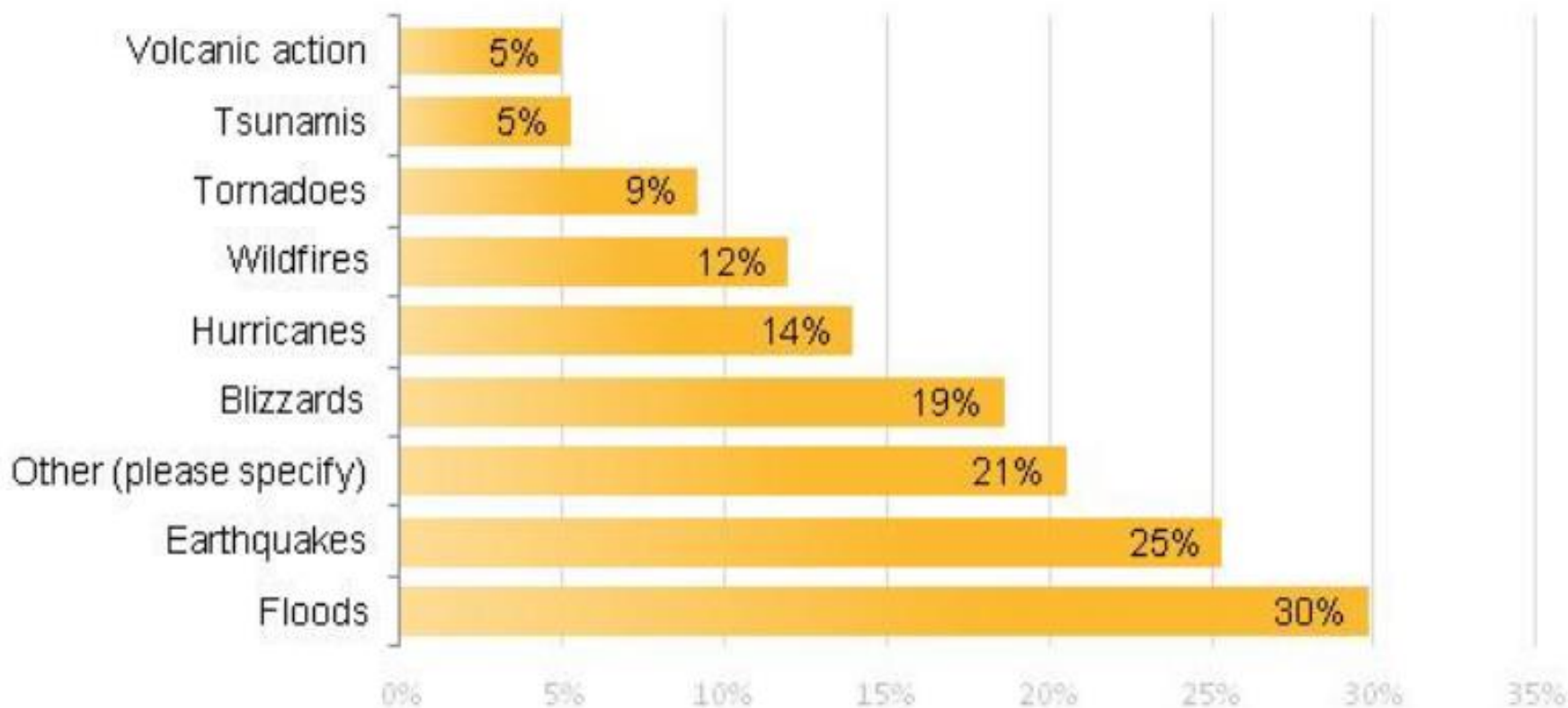
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Define Disasters

- Natural
  - Fire
  - Flood
  - Earthquake
  - Tornado
  - Hurricane
  - Power Outage
  - System Failure

Define Disasters

- Man-made
  - Vandalism
  - Virus
  - Theft
  - Terrorism
  - Personnel turnover
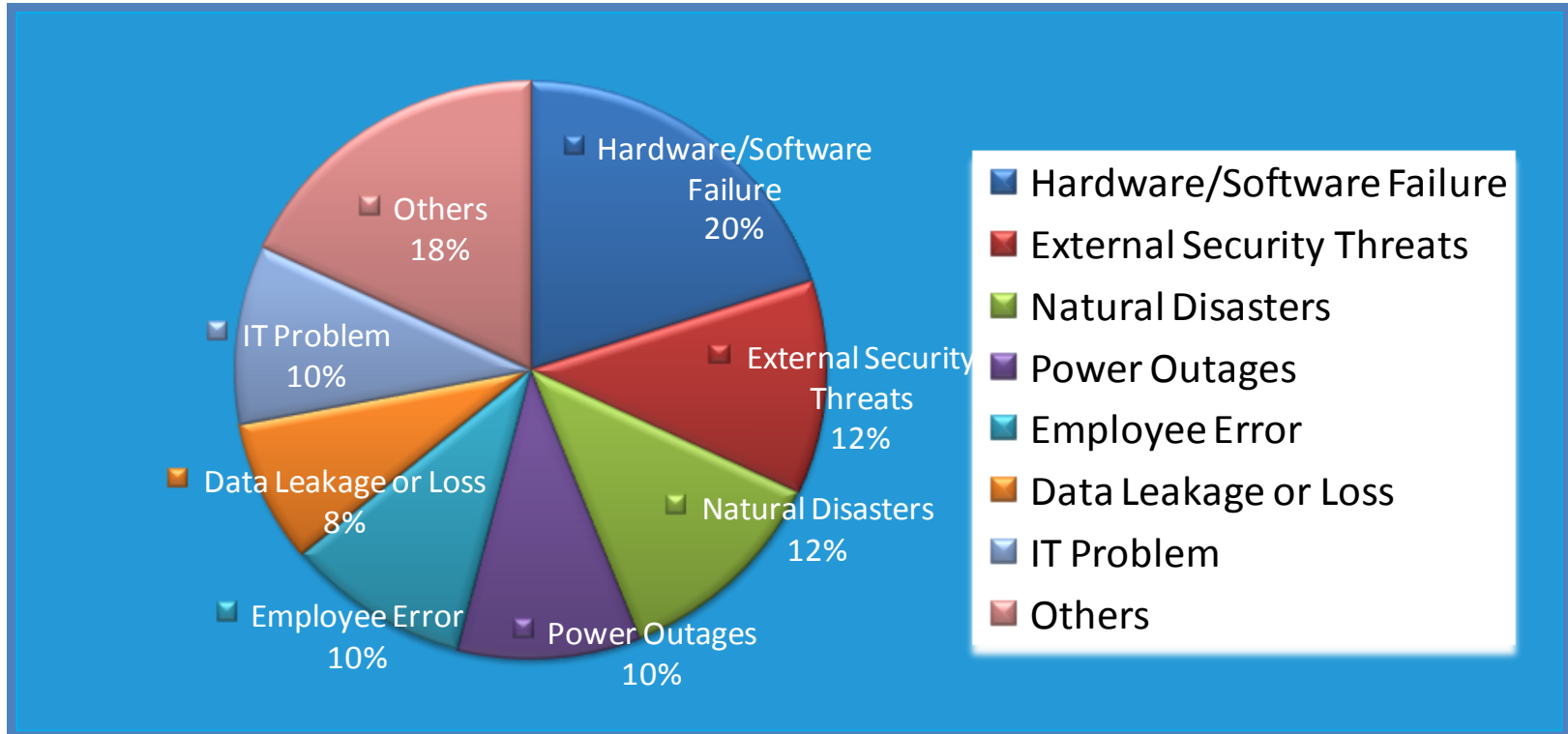 - Strike
  - Human Error

Global Findings

What types of natural disasters occur from time to time at one or more of your locations?

- Volcanic action — 5%
- Tsunamis — 5%
- Tornadoes — 9%
- Wildfires — 12%
- Hurricanes — 14%
- Blizzards — 19%
- Other (please specify) — 21%
- Earthquakes — 25%
- Floods — 30%

Source: Symantec 2012 Disaster Preparedness Survey Results

Survey Results

Symantec Annual IT Survey Results

Legend:
- Hardware/Software Failure
- External Security Threats
- Natural Disasters
- Power Outages
- Employee Error
- Data Leakage or Loss
- IT Problem
- Others

Pie chart values:
- Hardware/Software Failure 20%
- External Security Threats 12%
- Natural Disasters 12%
- Power Outages 10%
- Employee Error 10%
- Data Leakage or Loss 8%
- IT Problem 10%
- Others 18%

Recovery Strategies

- How long can business stand the pain?
  - MTD (maximum tolerable downtime)
  - MTD is also known as MAO (Maximum Allowable Outage)
  - Formal agreement on MTD for critical business data
  - Recovery strategies are based on MTD

Recovery Strategies

- Recovery Time
  - Hot
  - Warm
  - Cold

Recovery Strategies

- Meet legal and regulatory requirements
  - Healthcare
  - Government
  - Utilities

http://www.gartner.com/id=483265

Recovery Strategies

- How much data can we afford to lose?
  - Backup Strategy
  - Backups of data and applications

Recovery Strategies

- Security
  - Physical media
  - Network

Recovery Strategies

- ## How to choose a strategy?
  - Quantify loss due to business outage
  - Different technical options
  - Consider vendor services
  - Careful cost-benefit analysis
  - Driven by business requirements

Recovery Strategies

- Team Work
  - Involve both business and IT personnel
  - Require the support and approval of senior management

Recovery Strategies

- Recovery Plans
  - Create a document
  - Document recovery steps
  - Details must assume zero environment knowledge
  - Test, Maintain, Communicate, Train
  - Regular Review
  - Implement change management