

Avoid Landmines with your Backup and Recovery Strategy

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Nick Shirk

- BS, Industrial Mgmt – MIS and Finance – Purdue University
- MBA, Finance & Strategy – The University of Notre Dame
- Graduate School of Banking (GSB) – UW Madison
- 20+ years – IT, Dev Ops, Security, Consulting
- 13+ years working with financial institutions
- 6 Years JHA
- Led IT/Operations at a couple financial institutions







Airborne Demining in 3 Steps

Airborne Demining in 3 Steps



Mapping



Airborne Demining in 3 Steps



Mapping



Detecting



Airborne Demining in 3 Steps



Mapping



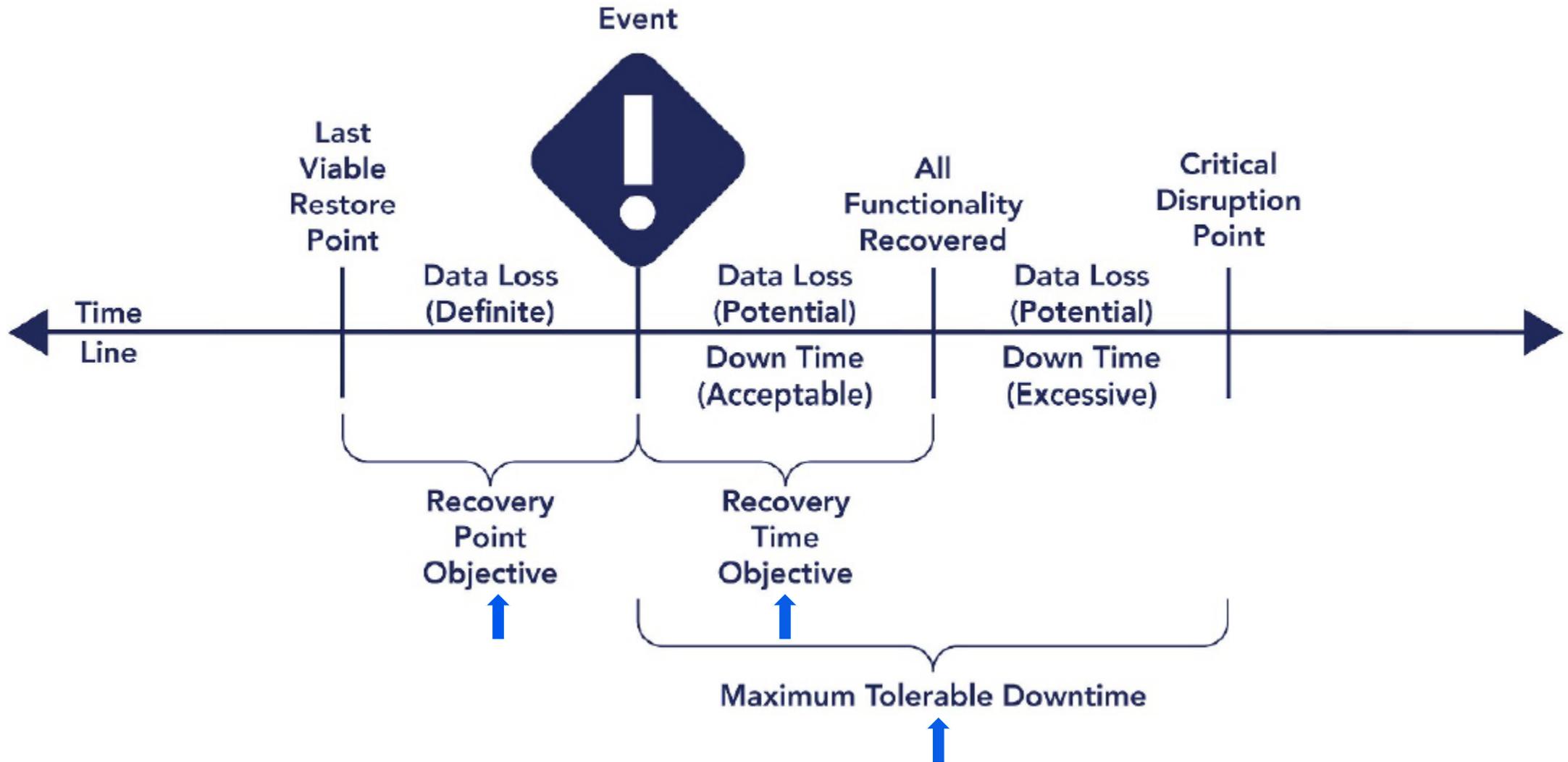
Detecting



Detonating



Impact of Disruption



Return Time Objective (RTO)



“Whether driven by customer expectations or technological advancement, previously established RTOs that were a few hours in duration may now require near real-time recovery. Therefore, it may be appropriate for management to reevaluate currently acceptable RTOs.”

**What was good enough a few years ago,
may not be good enough today.**

Resilience



“The ability to prepare for and adapt to changing conditions and withstand and recover rapidly from disruptions. Resilience includes the ability to withstand and recover from deliberate attacks, accidents, or naturally occurring threats or incidents.”

Business Continuity Management (BCM)

- Compare inherent risk and effectiveness of risk mitigation against the entity's risk appetite
- Verify whether test plans achieve stated objectives
- Monitor BCM testing to verify that issues (e.g. deviation from test plans and failed objectives) are appropriately identified and escalated



Business Impact Analysis (BIA)



- Identify critical business functions
- Identify interdependencies across business units
- Identify and analyze disruptive events

What Are Your “Crown Jewels”?

- Consider customer impact and regulatory expectations
- Ensure you can continue to serve your customers
- Consider customer impact and determine whether BCM solutions meet or exceed recovery objectives



BIA – Avoid “A Few Good Men” Management

- Candid conversations – focus on the current state
- Would you be able to achieve your recovery objectives?
- Allows management to identify and analyze gaps in critical processes that would prevent the entity from meeting its business requirements



BIA – Interdependency Analysis

- Identify single points of failure
 - Telecommunications or power
 - Network connections between branches
 - Data centers in close geographic proximity
 - Backups corrupted
 - Personnel
- Internal and Third-Party Services

Do You Know Your Cost of Downtime?

Other Expenses

Temporary Employees, Equipment rental, overtime costs, extra shipping costs, travel expenses, legal obligations

Productivity

- Number of employees affected X hours out times X burdened hourly rate

Revenue

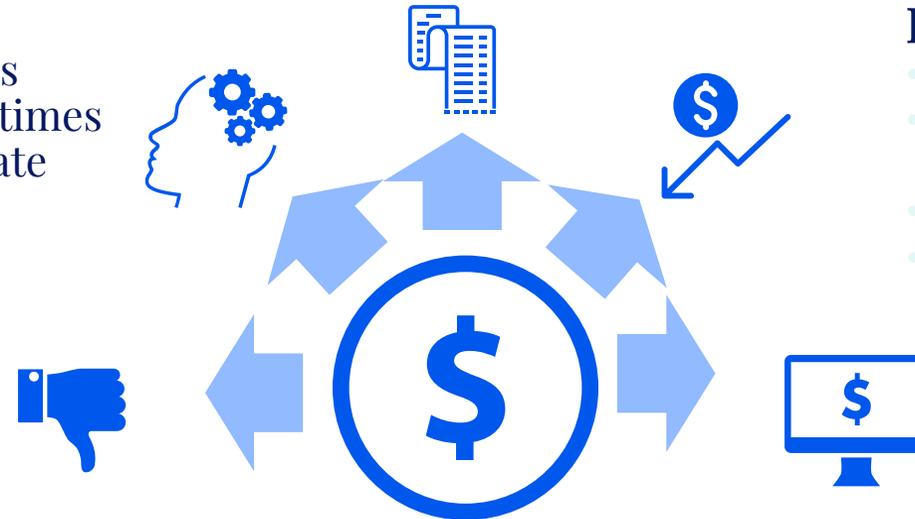
- Direct Loss
- Compensatory Payments
- Lost Future Revenue
- Billing Losses

Damaged Reputation

- Customers
- Suppliers
- Financial Markets
- Banks
- Business Partners

Financial Performance

- Revenue Recognition
- Cash Flow
- Lost Discounts (A/P)
- Payment Guarantees
- Stock Price



Know your downtime costs per hour, day, week, etc.

Downtime estimates range from \$10,000 to \$200,000 per hour of lost revenue

Landmines - Data

- Understand where data resides
 - Complex Environment
 - Cloud exposure
- Data Protection
 - Encrypted in transit and at rest
- Data Backup Strategy
 - Backup Frequency
 - Retention
 - Recovery Time and Costs
- Testing Frequency

Landmines

- Integration
 - Understand limitations with “backup in a box”
 - Understand how will communicate
- Lack of Testing and Validation
- Inadequate backups
- Inadequate security controls
- Failure to prioritize data
- Business need should drive strategy not technology
 - DR is a business issue, not just an IT issue

Landmines

- Throughput
 - Backups usually are incremental
 - Restores may be small amount of data localized to a single user or large amount for the full enterprise
- Insufficient Retention Periods
- SaaS applications

O365

Most SaaS providers follow a Shared Responsibility Model



Cloud Service Provider

Responsible for infrastructure and underlying services of SaaS applications



Customer Role

Responsible for data protection, including data entering, living in, and leaving the system

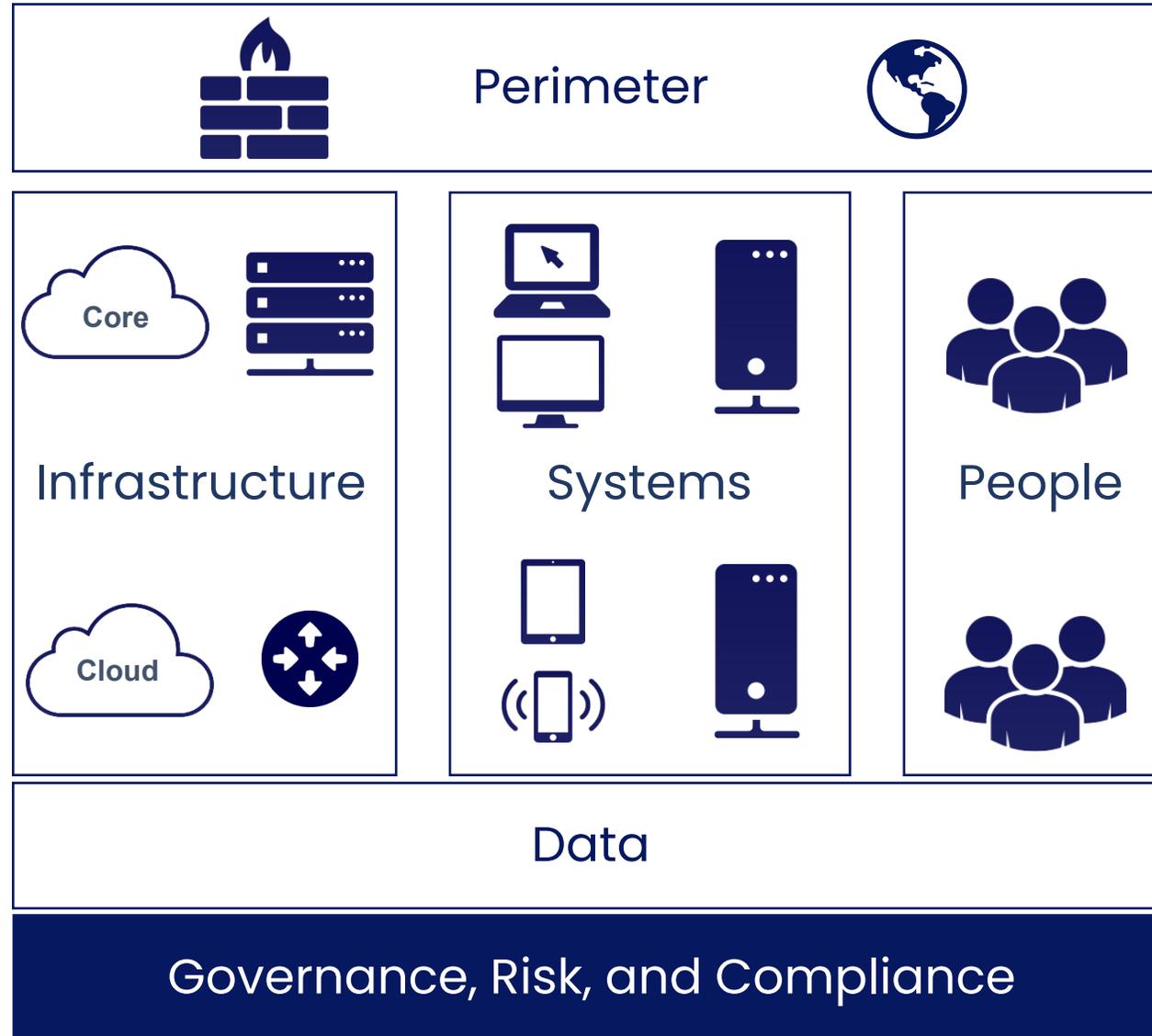
O365 does not include backup and recovery

Only 13% of businesses understand that data protection is solely on them



*“Security breaches involving cloud computing services highlight the importance of sound security controls and management’s understanding of the **shared responsibilities between cloud service providers and their financial institution clients.**”*

Think Holistically



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built for Financial Institutions

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Jack Henry's expertise and visibility is unmatched

Critical for accuracy and incident response support



Our Resume

- 25 Years of IT & InfoSec Services for FIs
- 250+ Certified Professionals
- Over 1,200 Clients
- Core Processor Agnostic
- Host/Maintain over 5,000 Servers
- Host/Maintain over 23,000 Endpoints



Summary

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