

# RSA<sup>®</sup>Conference2019

San Francisco | March 4–8 | Moscone Center



**BETTER.**

SESSION ID: SP01-W10

## Ransomware Attack Protection & Recovery: Lessons from the Front Line

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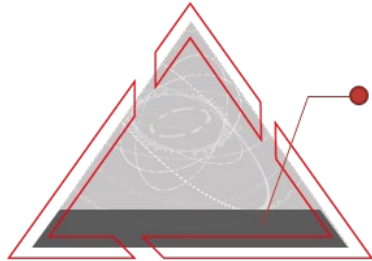
VP, Data & Analytics and Cybersecurity  
Strategist  
Mastercard

#RSAC

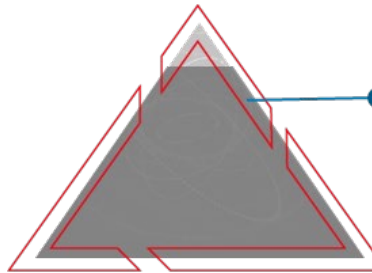
# Discussion Outline

- Discuss Shifting Threats and Impacts
  - Shifting Protection Strategies
  - Shifting Vendor Requirements
- Maturation of Digital Risk Management (DRM)
  - Business Impact Analysis, Cyber Risk Measurement, Frameworks & Compliance
- Resulting Tech and Architecture Evolution
  - Risk Management, SecOps, Identity, Data Protection & Recovery
- Where to begin?

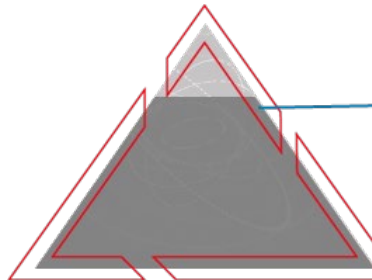
# Assessing Detection & Response Capabilities



• **24%**  
Organisations satisfied with their ability to detect and investigate

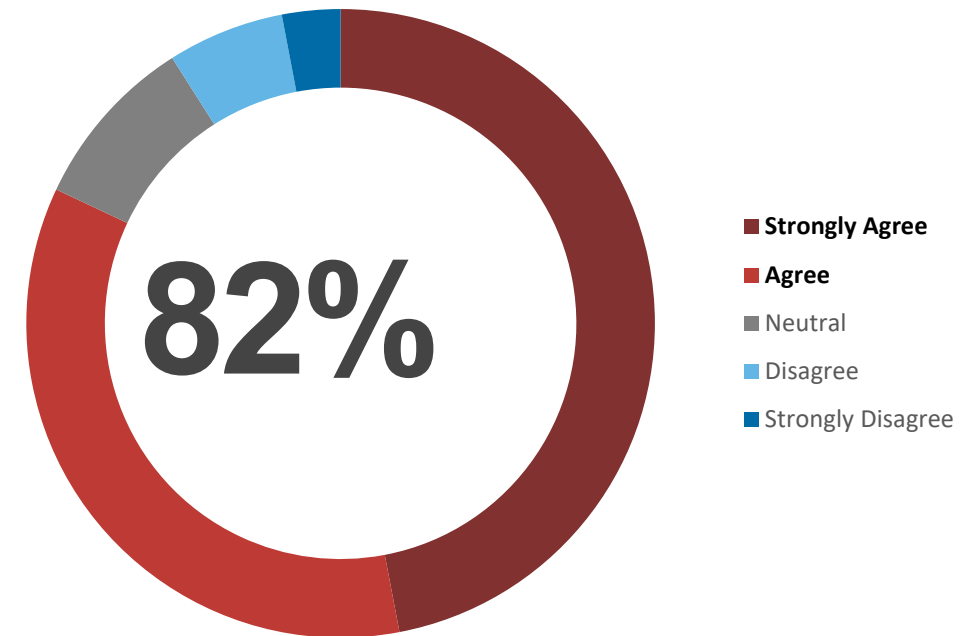


• **92%**  
Cannot detect quickly

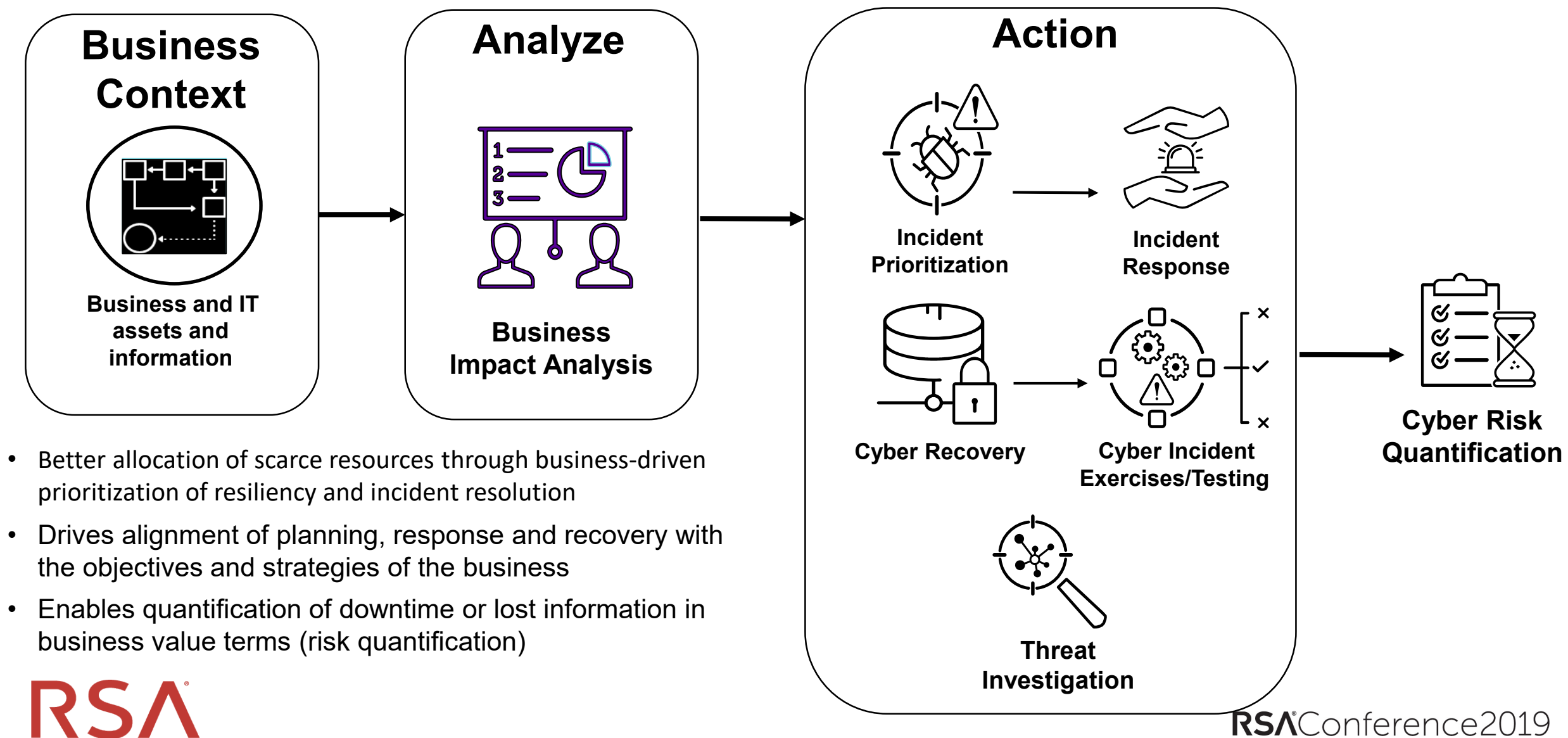


• **88%**  
Cannot investigate quickly

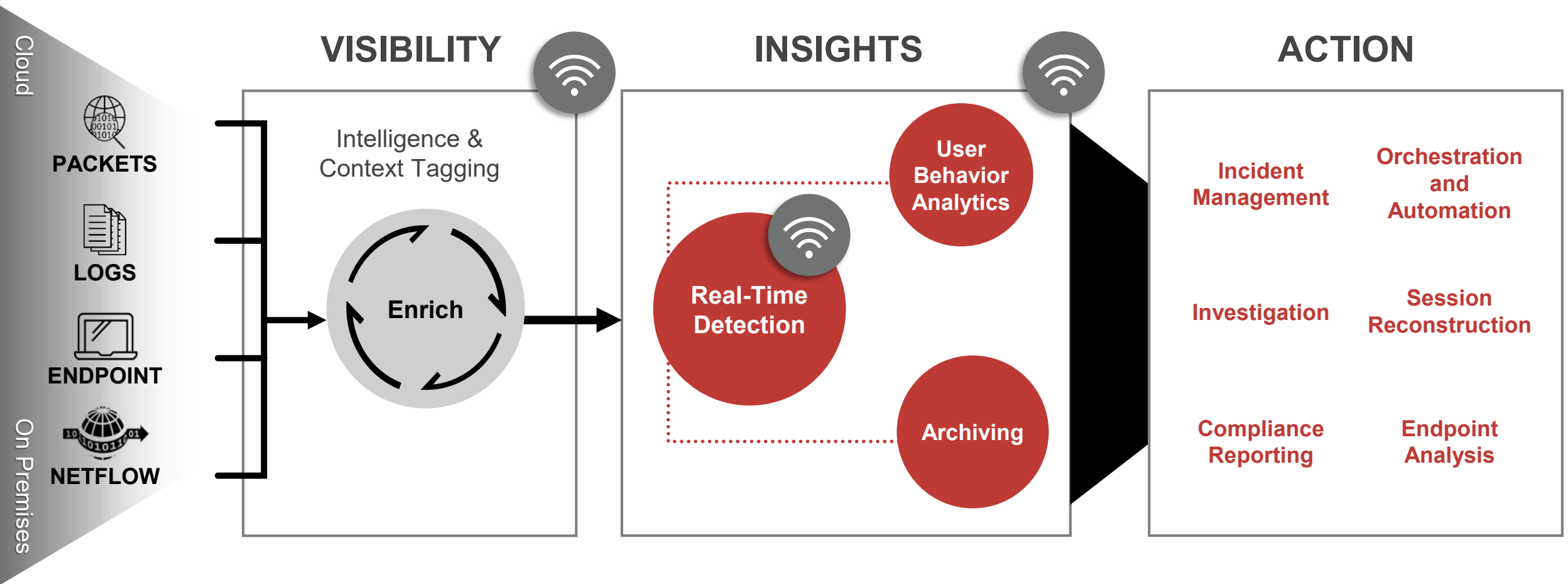
82% of Risk and Security professionals report that **their organizations consider security breaches as a business risk rather than just an IT risk.**



# Strategy Starts with Business Impact Analysis (BIA)



# Addressing the New Requirements

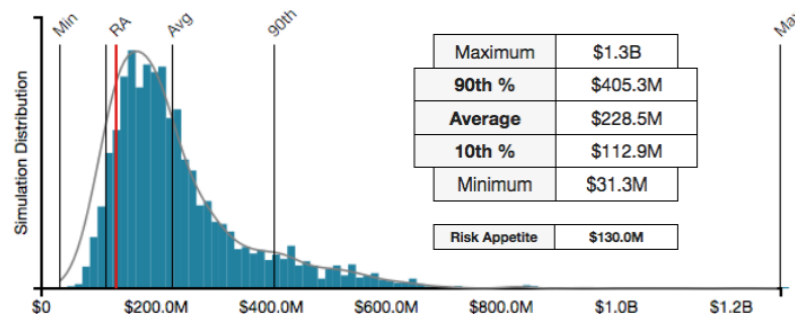


# Express Cyber Risk in Financial Terms

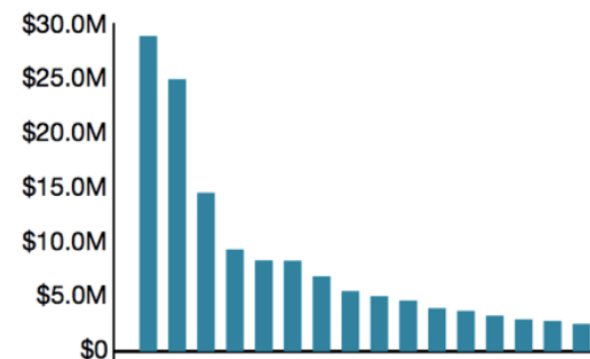


## Cyber Risk Quantification

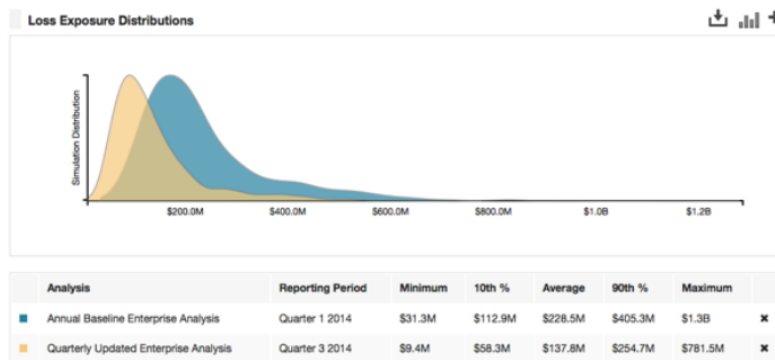
### “HOW MUCH RISK DO WE HAVE?”



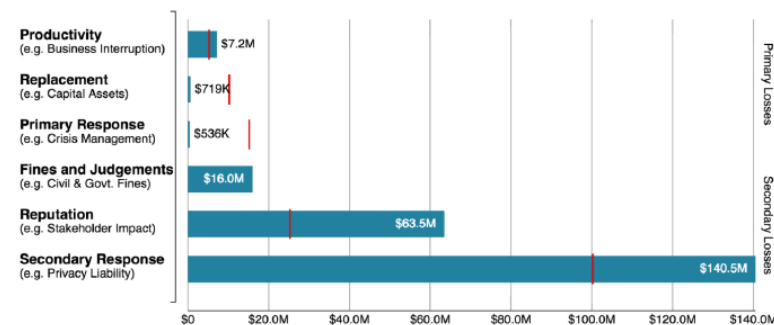
### “WHAT ARE OUR TOP RISKS?”



### “HAVE WE REDUCED RISK?”

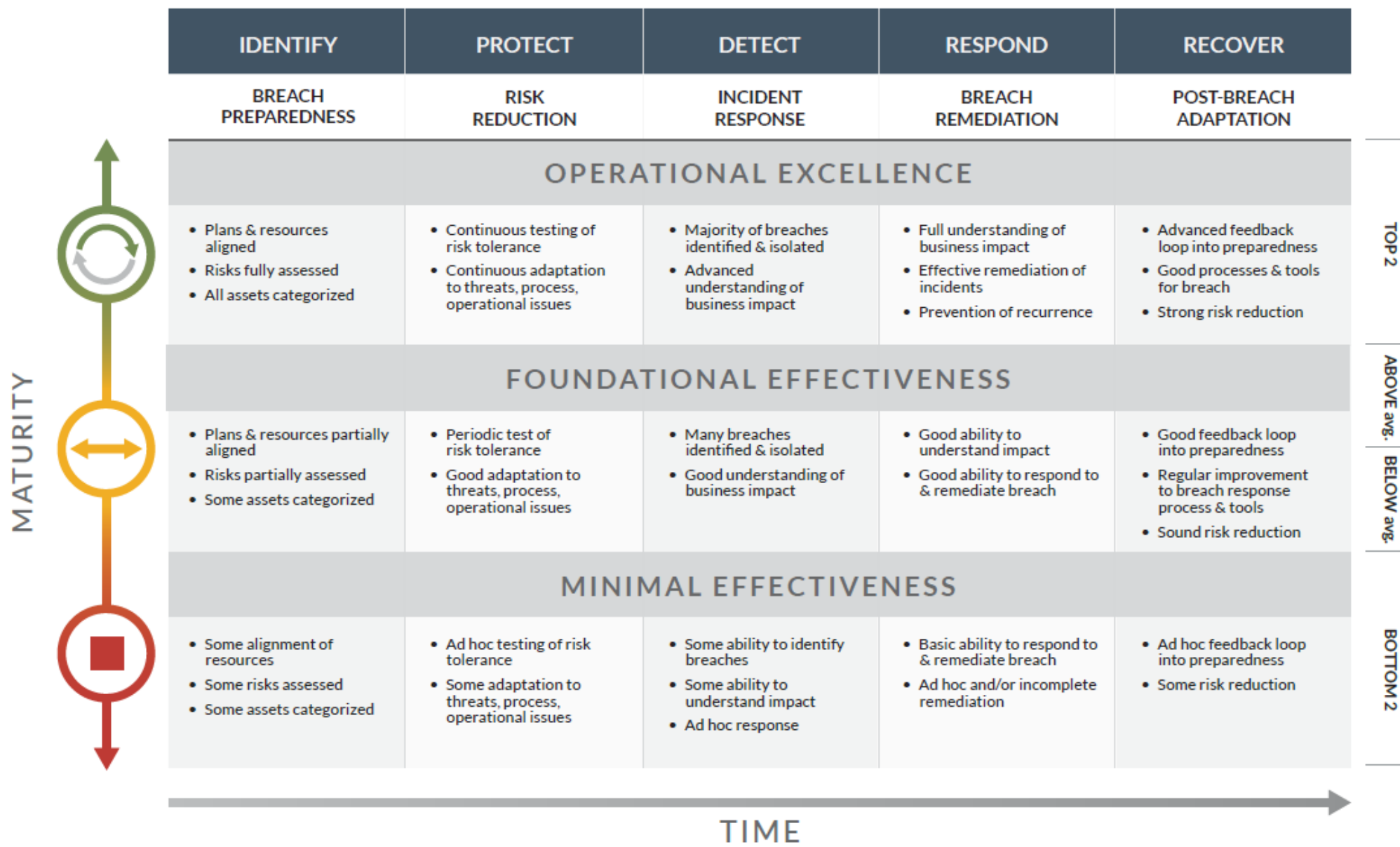


### “WHAT TYPE OF LOSS CAN WE EXPECT?”

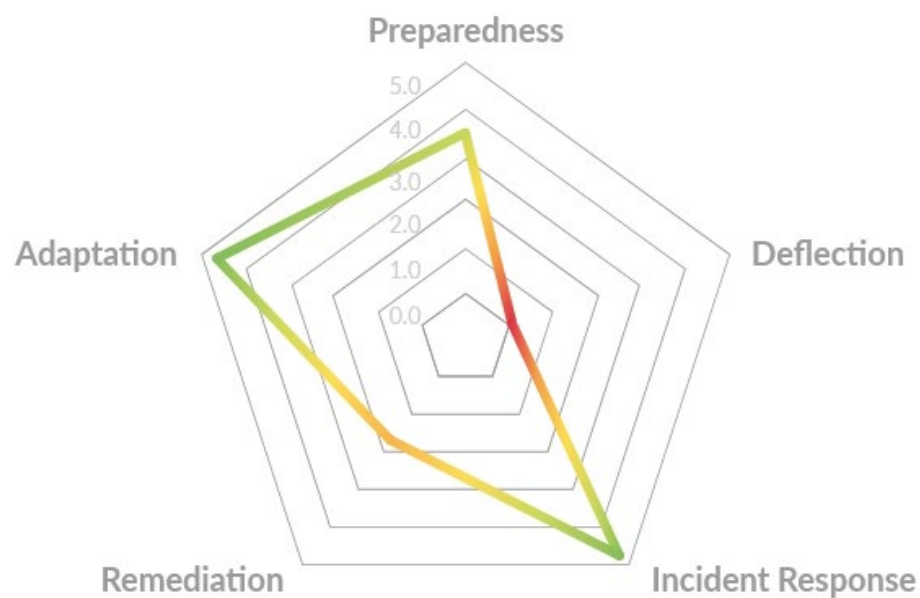




# Risk Framework: Cyber Incident Risk



# Risk Framework: Sample Outputs



## 1. Breach Preparedness

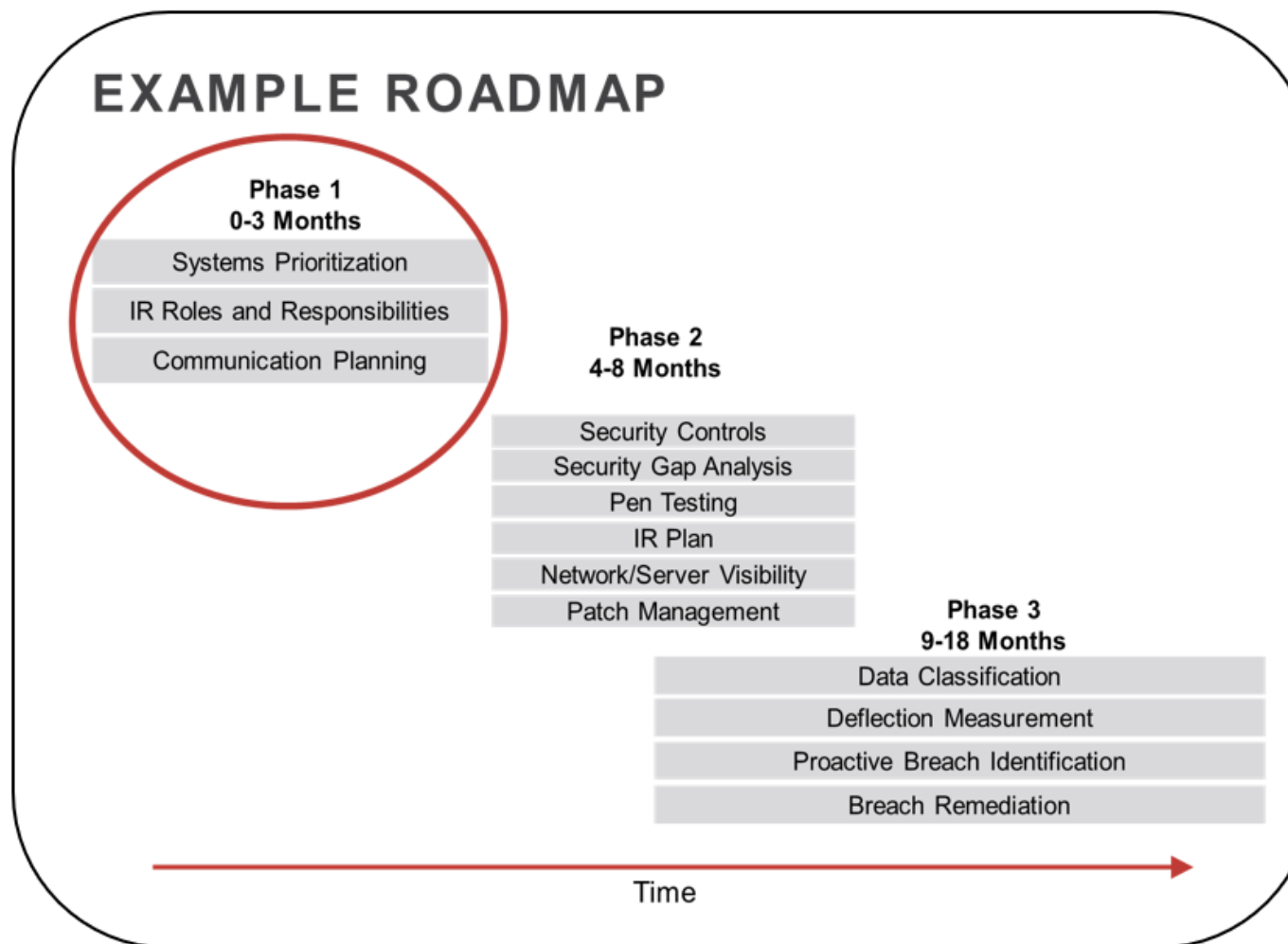
Unprepared  Prepared

**SCORE: 3.6**

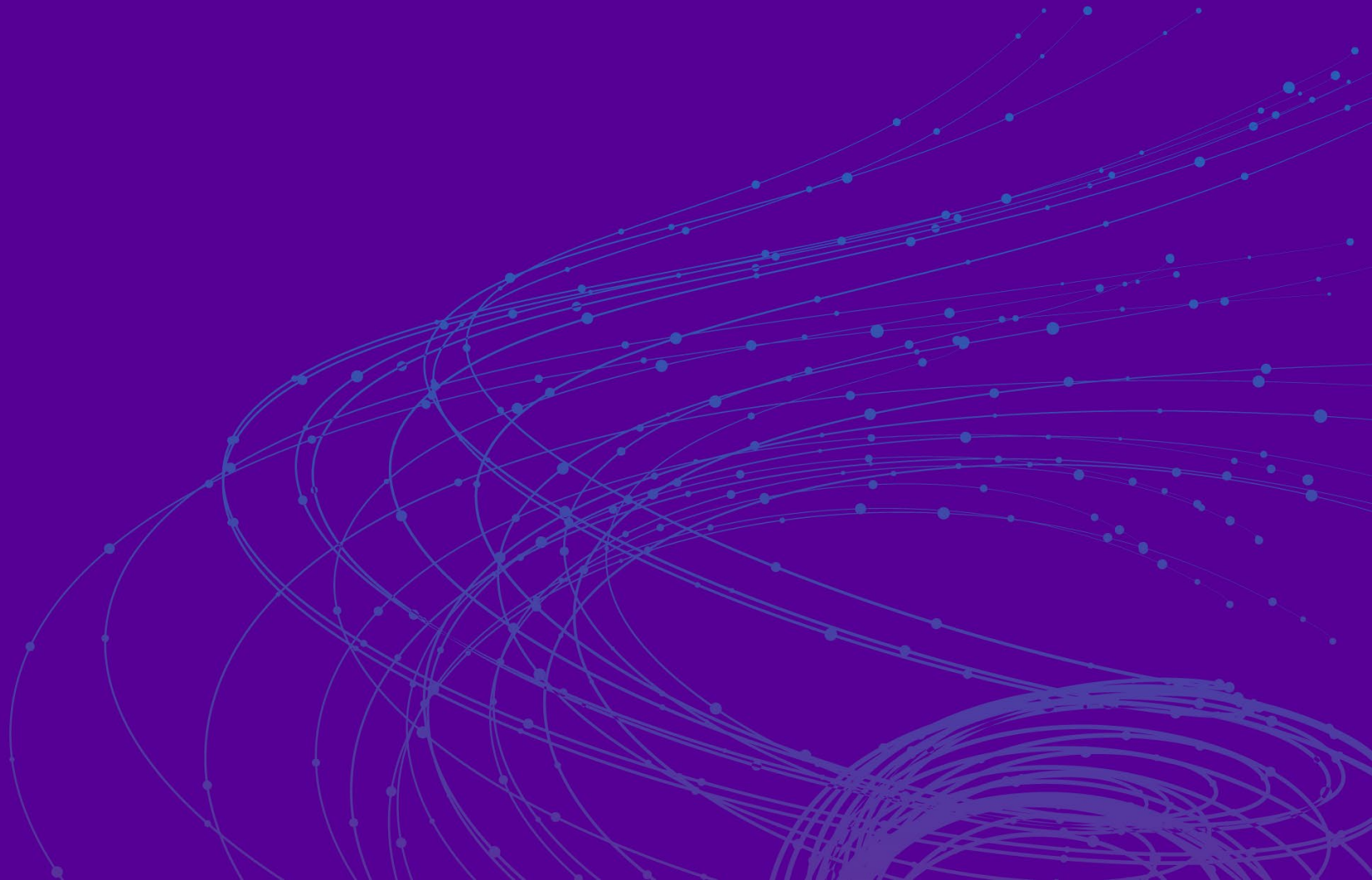
The organization leverages table top exercises, red/blue team testing, and penetration testing quarterly through an effective program. The organization has a professional team that documents results, communicates lessons learned with stakeholders, and regularly optimizes/improves testing processes



# Risk Framework: Sample Outputs



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# 9 out 10

organizations are using, planning for, testing, or interested in using isolated data protection copies as a preventative measure against malware infections

# 60%

CISOs actively involved in data recovery planning as part of incident response

Enterprises are facing an unprecedented wave of cyber attacks and increased business risk. The time to invest in enterprise-class cyber protection and recovery tools is NOW. Don't wait! Your peers are already doing it. Find out what Dell EMC's Cyber Recovery portfolio can do to protect your business data assets.

**Source:**

ESG Dell EMC Isolated Recovery Custom Research, 2018

**Original survey question:**

Does your organization currently have the capability to isolate some of its protection storage capacity to prevent malware infections?

**Survey respondents:**

414 IT, security, and legal professionals in multiple industries globally

This InstaGraphic was created by ESG on behalf of Dell EMC

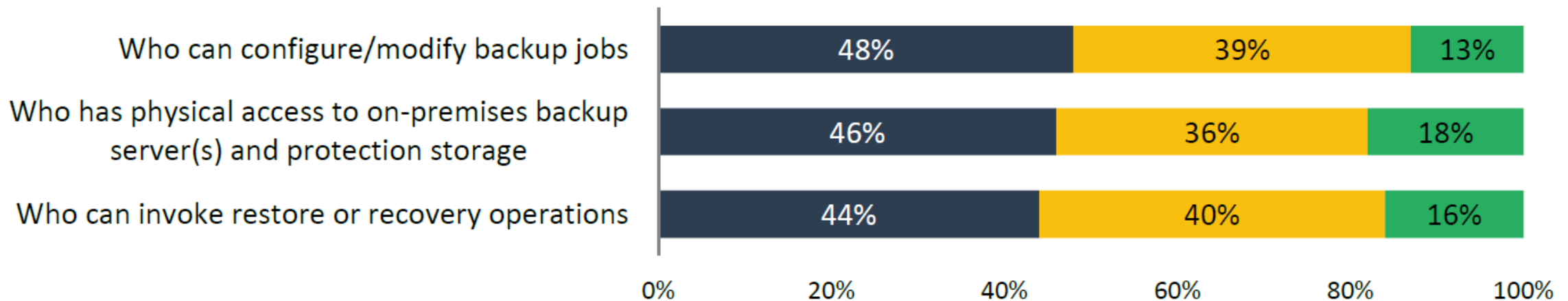
# Disaster Recovery ≠ Cyber Recovery

Category	DR	CR
Recovery Time	❖ Close to Instant	❖ Reliable & Fast
Recovery Point	❖ Ideally Continuous	❖ 1 Day Average
Nature of Disaster	❖ Flood, Power Outage, Weather	❖ Cyber Attack, Targeted
Impact of Disaster	❖ Regional; typically contained	❖ Global; spreads quickly
Topology	❖ Connected, multiple targets	❖ Isolated, in addition to DR
Data Volume	❖ Comprehensive, All Data	❖ Selective, Includes Foundation SVCs
Recovery	❖ Standard DR (e.g. failback)	❖ Iterative, selective recovery; part of IR

# Backup Infrastructure Vulnerable

For each of the following aspects/operations in your organization's backup/recovery environment today, what level of access or control do various IT groups have? (Percent of respondents, N=414)

- Only select backup administrators
- Most/all backup administrators as a group
- A broad group of IT administrators including backup administrators



Source: Enterprise Strategy Group



# NotPetya CASE STUDY – GLOBAL MANUFACTURER

Oops, your important files are encrypted.

If you see this text, then your files are no longer accessible, because they have been encrypted. Perhaps you are busy looking for a way to recover your files, but don't waste your time. Nobody can recover your files without our decryption service.

We guarantee that you can recover all your files safely and easily. All you need to do is submit the payment and purchase the decryption key.

Please follow the instructions:

1. Send \$300 worth of Bitcoin to following address:

1Mz7153HMuxXTuR2R1t78mGSdzaftNbBWx

2. Send your Bitcoin wallet ID and personal installation key to e-mail wowsmith123456@posteo.net. Your personal installation key:

74fZ96-2Nx1Gm-yHQRWr-S8gaN6-8Bs1td-U2DKui-ZZpKJE-kE6sSN-o8tizU-gUeUMA

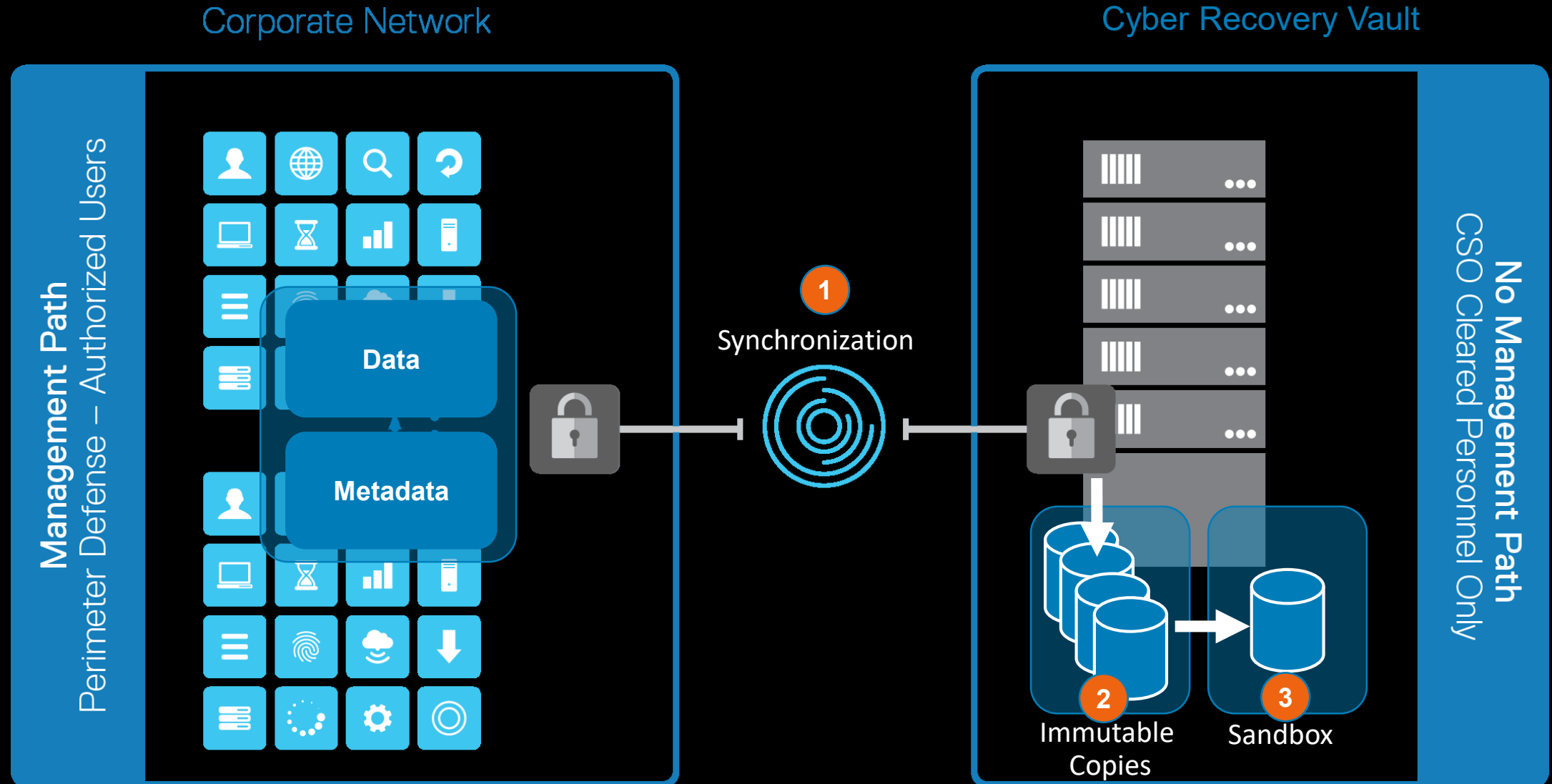
If you already purchased your key, please enter it below.

Key: \_

- Petya/NotPetya Attack Sep 2017
- SW vulnerability of billing software
- 8 Minutes to compromise organization
- 17 factories come to standstill
- 5,000 servers down, 17,000 employees impacted
- 15M Euros lost revenue / day
- Ransom NOT paid
- Lack of Cyber-Recovery Plan
- Tape recovery too slow (weeks estimated)
- Data Domain recovery 4.5 days



# A Different Approach to Data Protection



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