



## NAREIT's Law, Accounting & Finance Conference

JW Marriott Desert Ridge Resort & Spa  
Phoenix, AZ

®

# Cyber Security

March 31-April 2, 2015

# Agenda

1

## State of the Union for Cyber Security

- New Vectors of Threats
- Dynamic World of Change
- Real Estate Cyber Security Risks
- Common Cyber Security Mistakes

2

## Planning Your Response

- 5 steps to minimize your exposure
- Assess your Readiness
- Lessons learned from Law Enforcement

3

## Appendix Materials

- Cyber Maturity Assessment Areas of Focus

# New “Vectors” of Threats are Accelerating the Concern

Yesterday...

## Bad “Actors”

- Isolated criminals
- “Script Kiddies”

“Target of Opportunity”

## Targets

- Identity Theft
- Self Promotion Opportunities
- Theft of Services

Today...

## Bad “Actors”

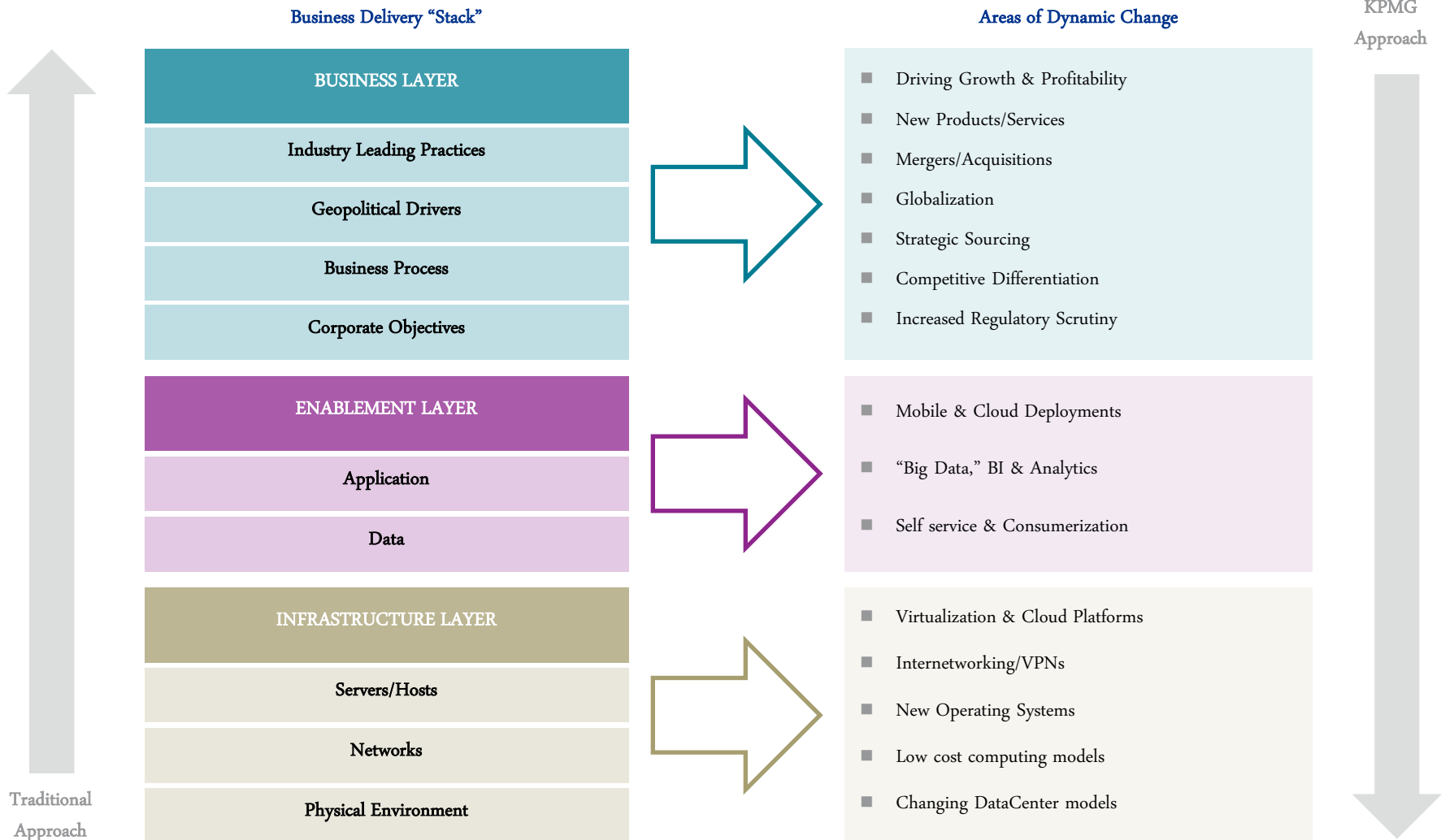
- Organized criminals
- Foreign States
- Hactivists
- Insiders

“Target of Choice”

## Targets

- Intellectual Property
- Financial Information
- Strategic Access

# Dynamic World of Change



# Real Estate Cyber Security Risks

- Cash – wire transfer fraud
- Employee personal information
- Application data (tax returns, financial information, etc.)
- Tenant information – residential / senior living (HIPAA)
- Third-party vendor risks
- Building automation

# The Five Most Common Cyber Security Mistakes

**Mistake #1:**

“We have to achieve 100 percent security.”

**Reality:**

100 percent security is neither feasible nor the appropriate goal.





# The Five Most Common Cyber Security Mistakes

## Mistake #2:

“When we invest in best-in-class technical tools, we are safe.”

## Reality:

Effective Cyber Security is less dependent on technology than you think.



# The Five Most Common Cyber Security Mistakes

## Mistake #3:

“Our weapons have to be better than those of our attackers.”

## Reality:

The security policy should primarily be determined by your goals, not those of your attackers.





# The Five Most Common Cyber Security Mistakes

## Mistake #4:

“Cyber Security compliance is all about effective monitoring.”

## Reality:

The ability to learn is just as important as the ability to monitor.



# The Five Most Common Cyber Security Mistakes

## Mistake #5:

“We need to recruit the best professionals to defend ourselves against cyber crime.”

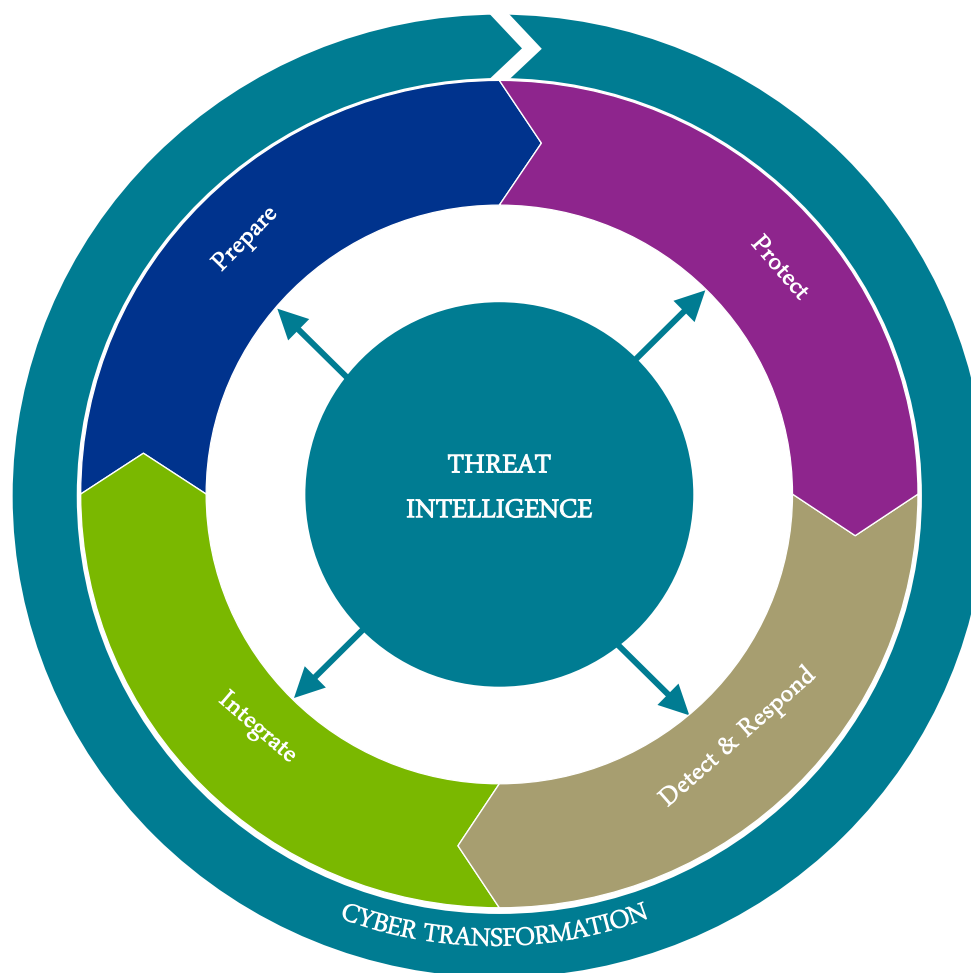
## Reality:

Cyber Security is not a department, but an attitude.



# Planning Your Response

## Example Cyber Security Framework



# Planning Your Response

## Five Steps to Minimize Your Exposure

1

### **Assess your Readiness to Respond**

Perform a cyber maturity assessment to look at areas such as Leadership and Governance, Human Factors, Information Risk Management, Business Continuity and Crisis Management.

2

### **Hone in on your critical assets**

Identify your critical assets but remember that what you consider to be of no value, may be considered valuable to an attacker. Take a look at the lifecycle of your critical information assets from creation all the way to destruction.

3

### **Select your defense**

Based on your assessment and your critical assets, select your defenses. Know what threats you are going to defend against – trying to prevent them all it gets very expensive

4

### **Boost your security awareness and education**

Everyone in the organization – from the boardroom to the mailroom – must understand the value and sensitivity of the information they possess and, more importantly, how to protect it.

5

### **Enhance Monitoring & Incident Response**

Being able to adequately respond to a security incident through established tested processes should not be taken lightly. Supported by a security monitoring platform and good threat intelligence, you can get a better grip on monitoring and responding to cyber crime.

# Planning Your Response

## Assess Your Readiness – Cyber Maturity Assessment

### LEGAL AND COMPLIANCE

Regulatory and international certification standards as relevant

### OPERATIONS AND TECHNOLOGY

The level of control measures implemented to address identified risks and minimize the impact of compromise

### BUSINESS CONTINUITY AND CRISIS MANAGEMENT

Preparations for a security event and ability to prevent or minimize the impact through successful crisis and stakeholder management



### LEADERSHIP AND GOVERNANCE

Board demonstrating due diligence, ownership and effective management of risk

### HUMAN FACTORS

The level and integration of a security culture that empowers and ensures the right people, skills, culture and knowledge

### INFORMATION RISK MANAGEMENT

The approach to achieve comprehensive and effective risk management of information throughout the organization and its delivery and supply partners



# Planning Your Response

## Assess Your Readiness – Cyber Maturity Assessment

### Leadership and Governance

Board demonstrating due diligence, ownership and effective management of risk

### Human Factors

The level and integration of a security culture that empowers and ensures the right people, skills, culture and knowledge

### Topics

Understanding of Cyber

Board Involvement

Third-Party Supplier Relationships

Identification of Critical Data

Ownership and Governance for Data Protection

Program Management

### Topics

Training and Awareness

Culture

Personnel Security Measures

Talent Management

Organizational Roles and Responsibilities

# Planning Your Response

## Assess Your Readiness – Cyber Maturity Assessment

### Information Risk Management

The approach to achieve comprehensive and effective risk management of information throughout the organization and its delivery and supply partners

### Business Continuity and Crisis Management

Preparations for a security event and ability to prevent or minimize the impact through successful crisis and stakeholder Management

### Topics

Risk Management Approach and Policies

Risk Tolerance Identification

Risk Assessment and Measures

Asset Management

Information Sharing

Third Party Accreditation

Ability to Detect Attacks & Integrate Improvements

### Topics

Ability to Manage Cyber Events

Financial Ramifications & Budget

Resources Required & Training

Robust Plans

Communications

Testing

# Planning Your Response

## Assess Your Readiness – Cyber Maturity Assessment

### Operations and Technology

The level of control measures implemented to address identified risks and minimize the impact of compromise

### Legal and Compliance

Regulatory and international certification standards as relevant

### Topics

Threat and Vulnerability Management

Logical Security Controls

Physical Security Controls

Security Monitoring

Incident Response

Integration with IT Service Management

### Topics

Inventory of compliance requirements

Compliance program components

Role of the Audit Committee

Litigation inventory

Cyber insurance

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