

Degustare la crescita

Un percorso in 4 tappe alla scoperta delle soluzioni IBM

**Security Intelligence:
un approccio integrato e proattivo**



The current environment is putting new demands on security

New Business Models, New Technologies



Mobile Collaboration /
BYOD

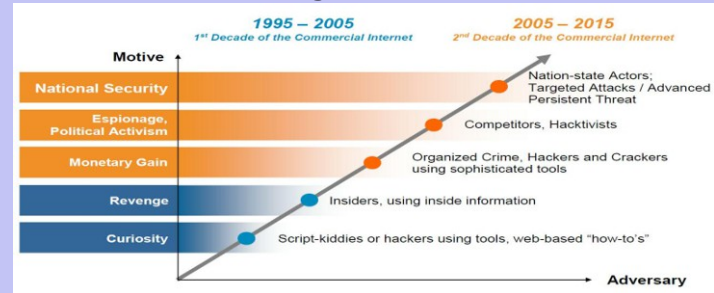


Cloud /
Virtualization



Large existing IT infrastructures with a globalized workforce, 3rd party services, and a growing customer base

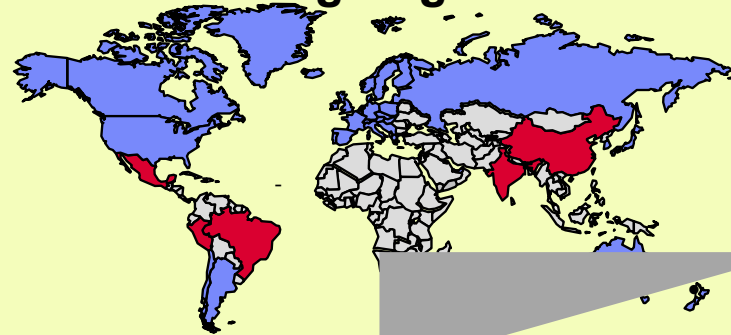
Velocity of Threats



Social Business Blurring "Social" Identities



Evolving Regulations



Potential Impacts



Data or Device
Loss or Theft



Malware infection
Loss of productivity



Regulatory Fines
\$\$\$



Data Leakage

Security need to change and adapt rapidly to this new normal

Data Explosion

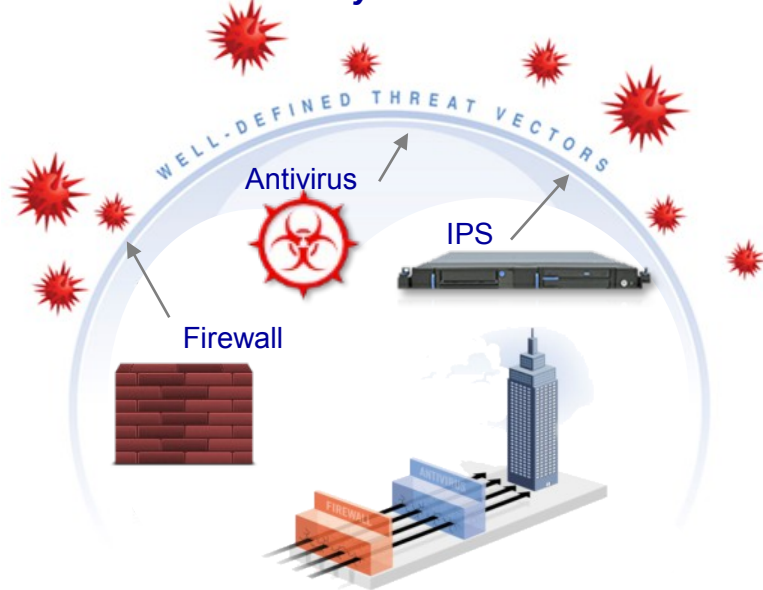
Consumerization of IT

Everything is Everywhere

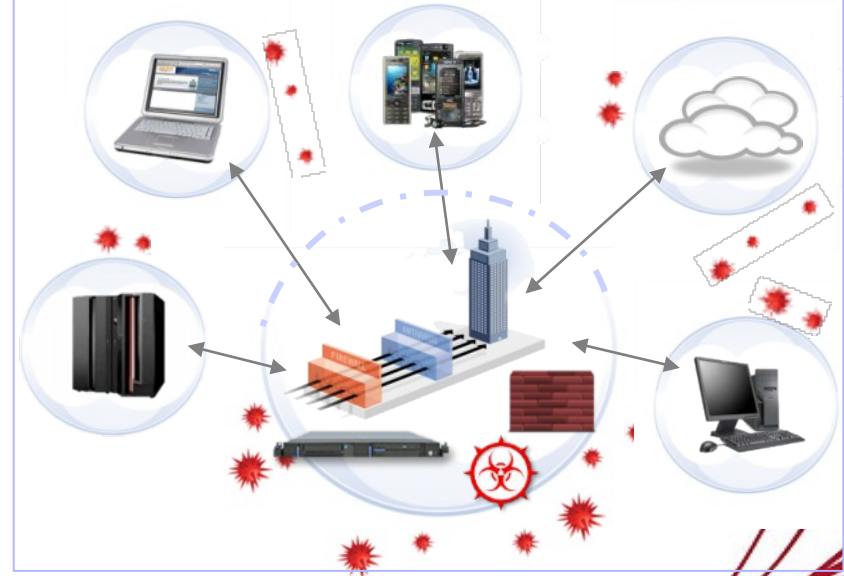
Attack Sophistication

Extending the Perimeter Shifts Protection Focus to Data

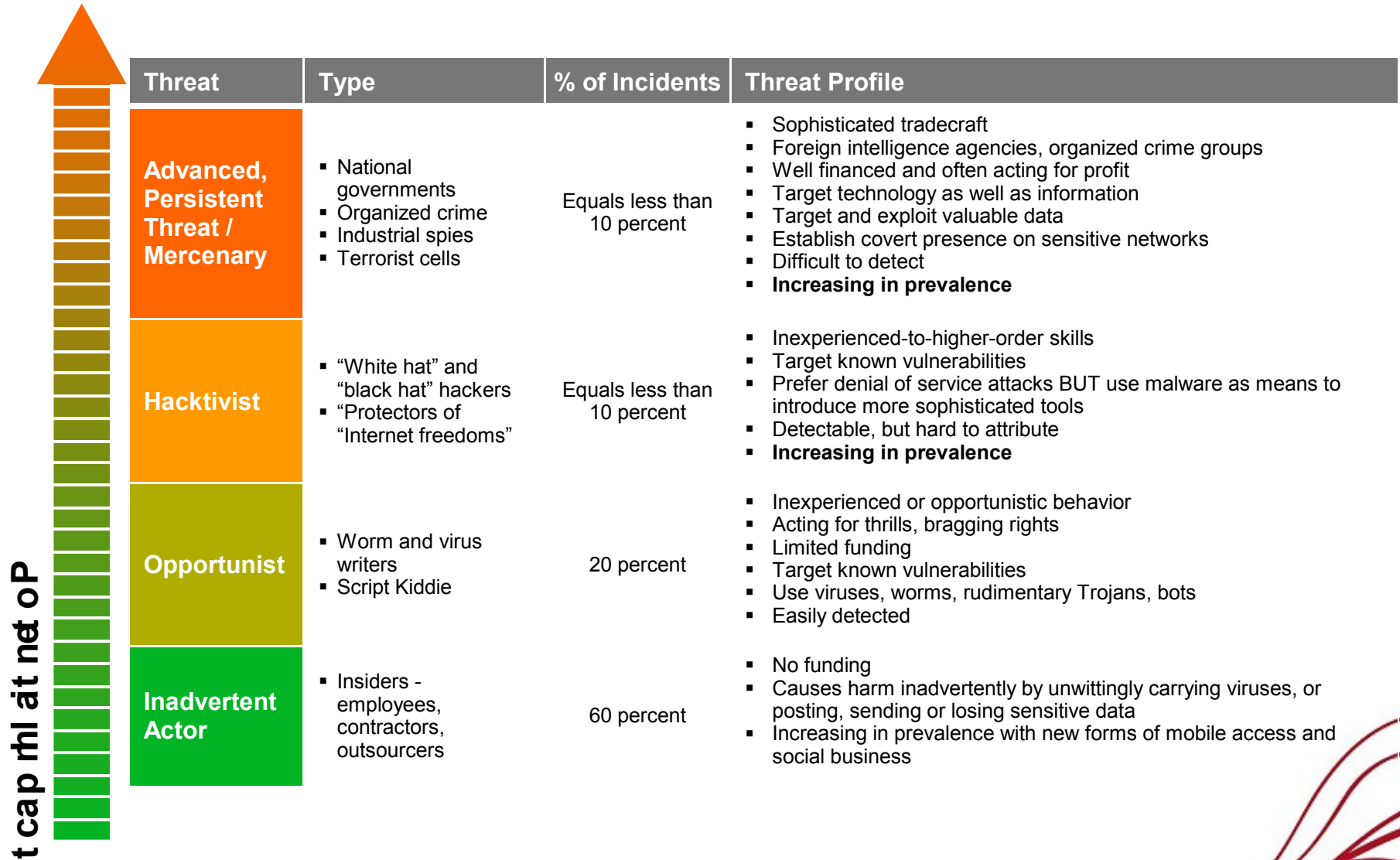
Moving from traditional perimeter-based security...



...to logical "perimeter" approach to security—focusing on the data and where it resides



Today's threats (actors) are more sophisticated



Source: Government Accountability Office (GAO), Department of Homeland Security's (DHS's) Role in Critical Infrastructure Protection (CIP) Cybersecurity, GAO-05-434

Targeted attacks shake businesses and governments

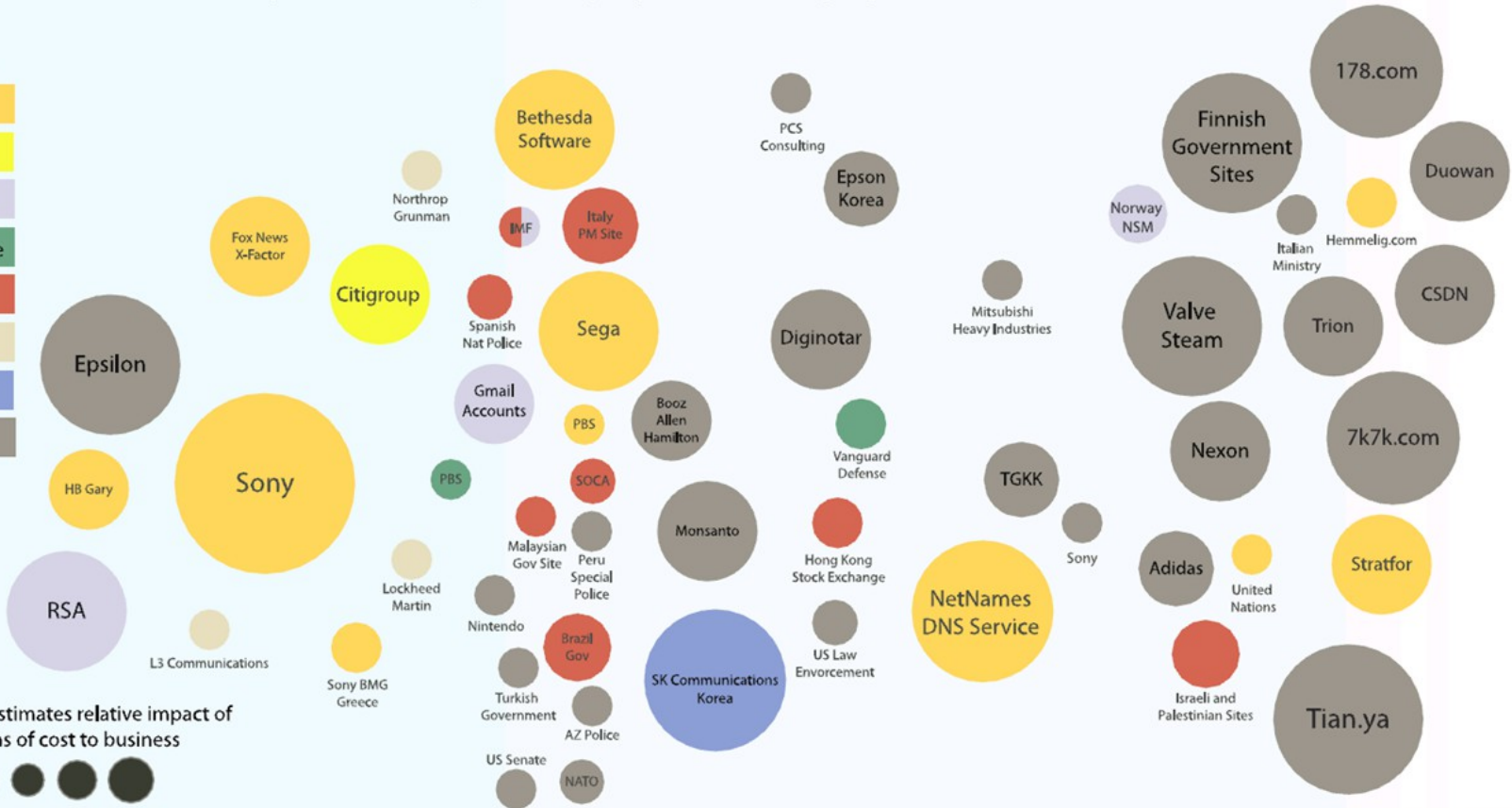
2011 Sampling of Security Breaches by Attack Type, Time and Impact
 conjecture of relative breach impact is based on publicly disclosed information regarding leaked records and financial losses

- Attack Type**
- SQL Injection
 - URL Tampering
 - Spear Phishing
 - 3rd Party Software
 - DDoS
 - SecureID
 - Trojan Software
 - Unknown

Size of circle estimates relative impact of breach in terms of cost to business



Jan Feb March April May June July Aug Sep Oct Nov Dec



Top reasons WHY compromises occur

end users/endpoints

1. Double-clicking “on anything”
2. Disabling endpoint security settings
3. Using vulnerable, legacy software and hardware
4. Failing to install security patches
5. Failing to install anti-virus
6. Failing to report lost/stolen device
7. Connecting endpoint to a network from an insecure access point (e.g. Starbucks, McDonald)
8. Using a second access point (e.g. AirCard) creating a bypass
9. Using weak/default passwords and/or using business passwords for personal use
10. Giving passwords over the phone

infrastructure

1. Connecting systems/virtual images to the Internet before hardening them
2. Connecting test systems to the Internet with default accounts/passwords
3. Failing to update or patch systems/applications on a timely basis.
4. Failing to implement or update virus detection software
5. Using legacy/end-of-life software and hardware
6. Running unnecessary services
7. Using insecure back-end management software
8. Failing to remove old/unused user accounts
9. Implementing firewalls with rules that don't stop malicious or dangerous incoming or outgoing traffic
10. Failing to segment network and/or adequately monitor/block malicious traffic with IDS/IPS

80-90% of all security incidents can be easily avoided!

Security Pain Points .. in short

- Keeping up with regulatory and maintain compliance posture
- Data Security Compliance
- Cybercrimes/Attacks
- Cost Take-Out / Cost Reduction for Operational Expenses
- Increased risk of fraud and other criminal activity (inside/outside)
- Increased threats from disgruntled employees
- Information is money
- Protect security and privacy of critical assets (logical/physical)
- Improve operational efficiency – manage costs



IT Security is a board room discussion



Business results

Sony estimates potential \$1B long term impact – \$171M / 100 customers*

Brand image

HSBC data breach discloses 24K private banking customers

Supply chain

Epsilon breach impacts 100 national brands

Legal exposure

TJX estimates \$150M class action settlement in release of credit / debit card info

Impact of hacktivism

Lulzsec 50-day hack-at-will spree impacts Nintendo, CIA, PBS, UK NHS, UK SOCA, Sony ...

Audit risk

Zurich Insurance PLC fined £2.275M (\$3.8M) for the loss and exposure of 46K customer records



Chief executive officers are under increasing pressure to deliver transformative business value—with limited resources available

Mobile in the enterprise

90%

of organizations will support corporate apps on a personal devices by 2014⁶

Innovation in the cloud

60%

of chief information officers view cloud computing as critical to their plans⁵

Increased risk

40%

of Fortune 500 and popular web sites contain a vulnerability²

Budgetary constraints

71%

of the average IT budget is dedicated to ongoing operations⁴

Social business

74%

of enterprise use social media today to communicate with clients⁷

Exploding data growth

2.7ZB

of digital content in 2012, a 50% increase from 2011³

Aging Infrastructure

71%

of data centers are over 7 years old¹



For most clients, security skills shortages make even the simplest tasks a challenge for our clients

58%

are unable to find people with the right skills

53%

complain of the inability to measure the effectiveness of their current security efforts

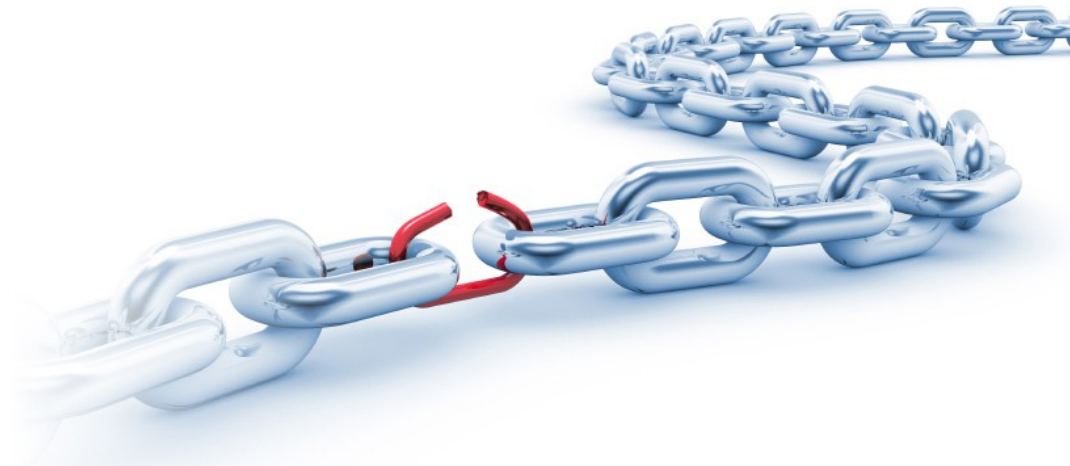
66%

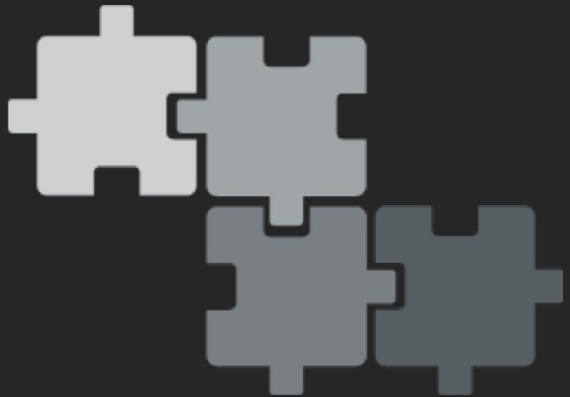
struggle with an understaffed IT team



FORRESTER®

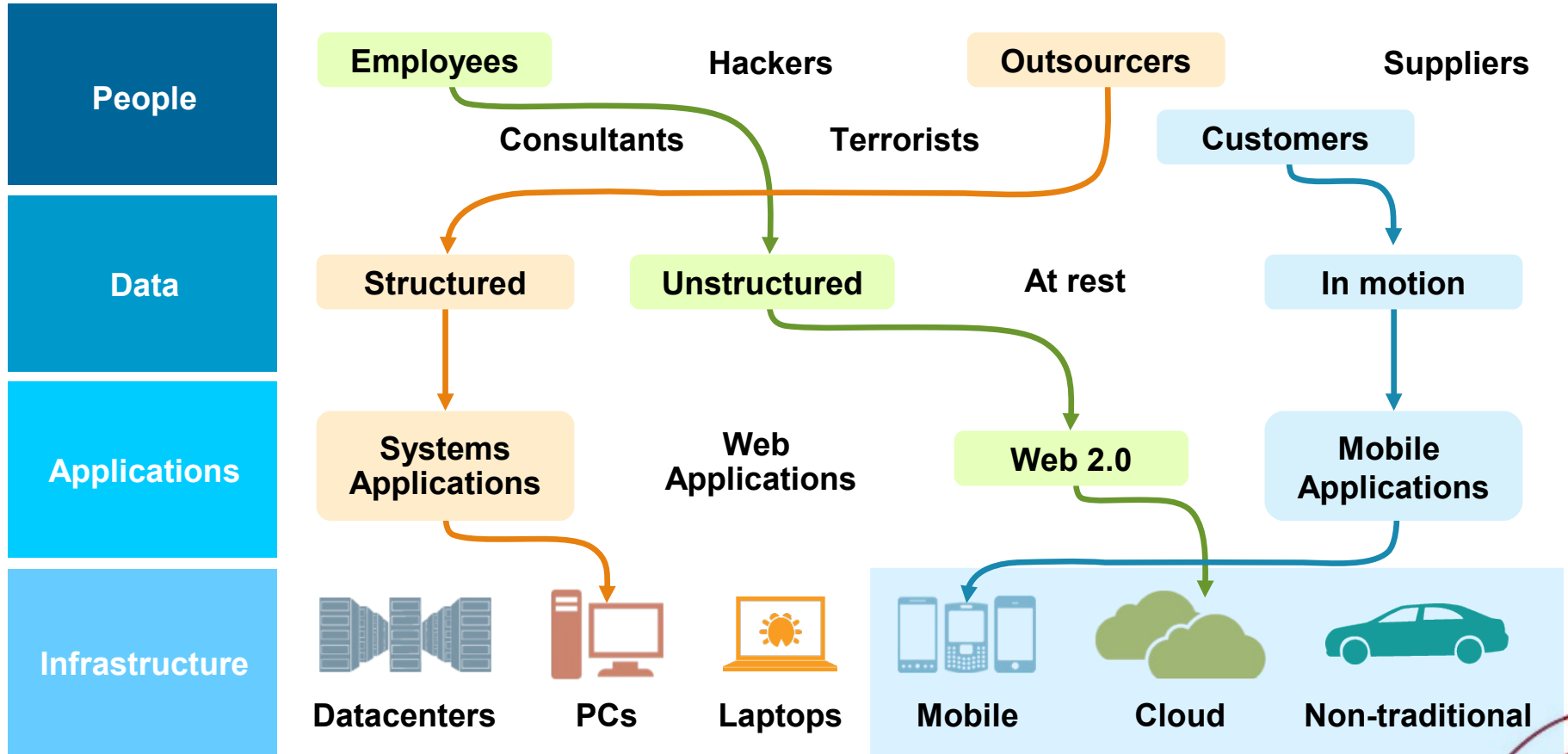
81% of chief information security officer functions are re-organizing or have been re-organized *within the last six months.*





How do we
solve this?

Security challenges are a complex, four-dimensional puzzle ...



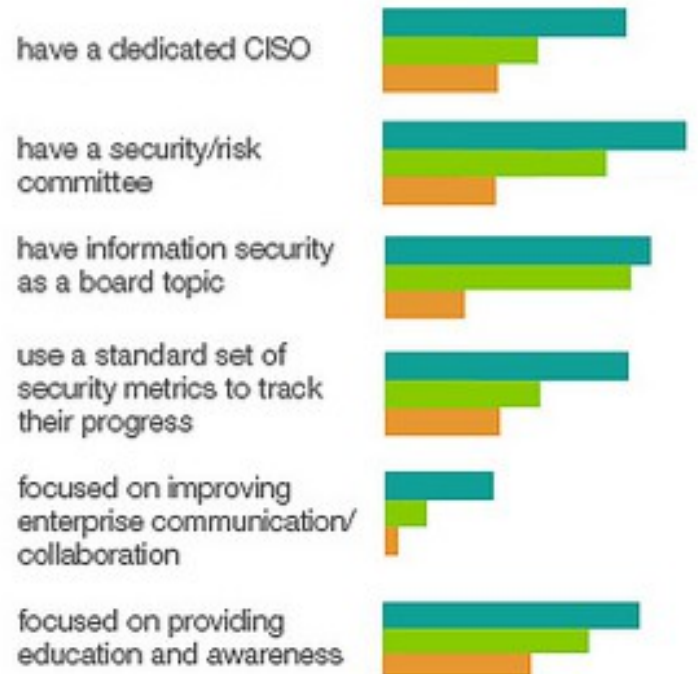
... that requires a new approach

IBM CISO study revealed critical shift in the role of Chief Information Security Executives globally

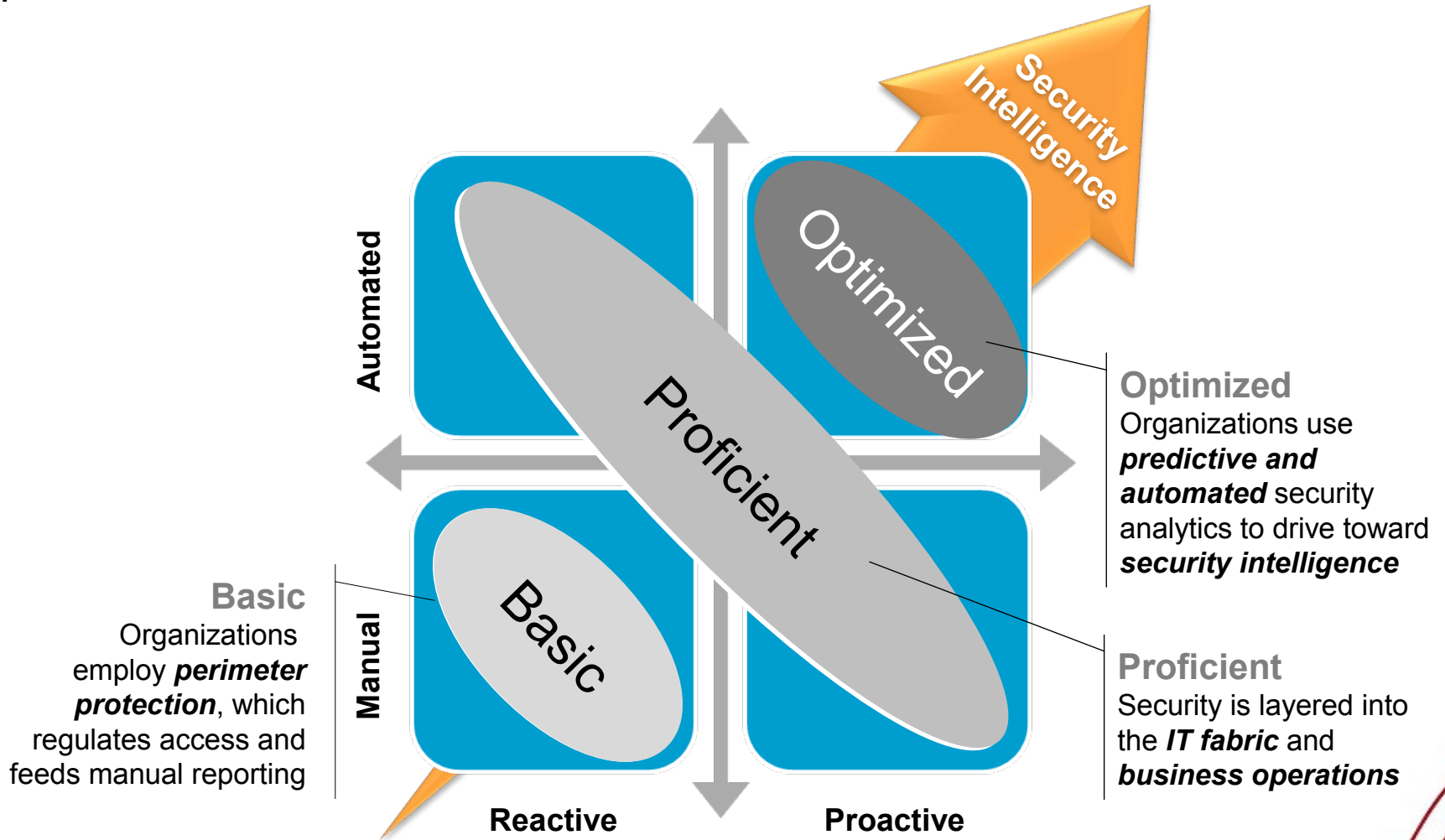


- Influencers (25%) => **RISK**
- Protectors (47%) => **COMPLIANCE**
- Responders (28%) => **CRISIS**

How they differ

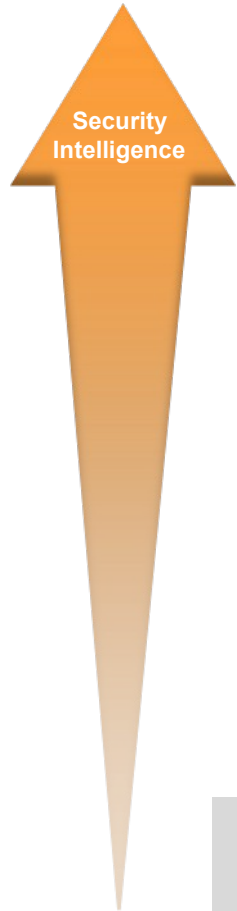


In this “new normal”, organizations need an intelligent view of their security posture



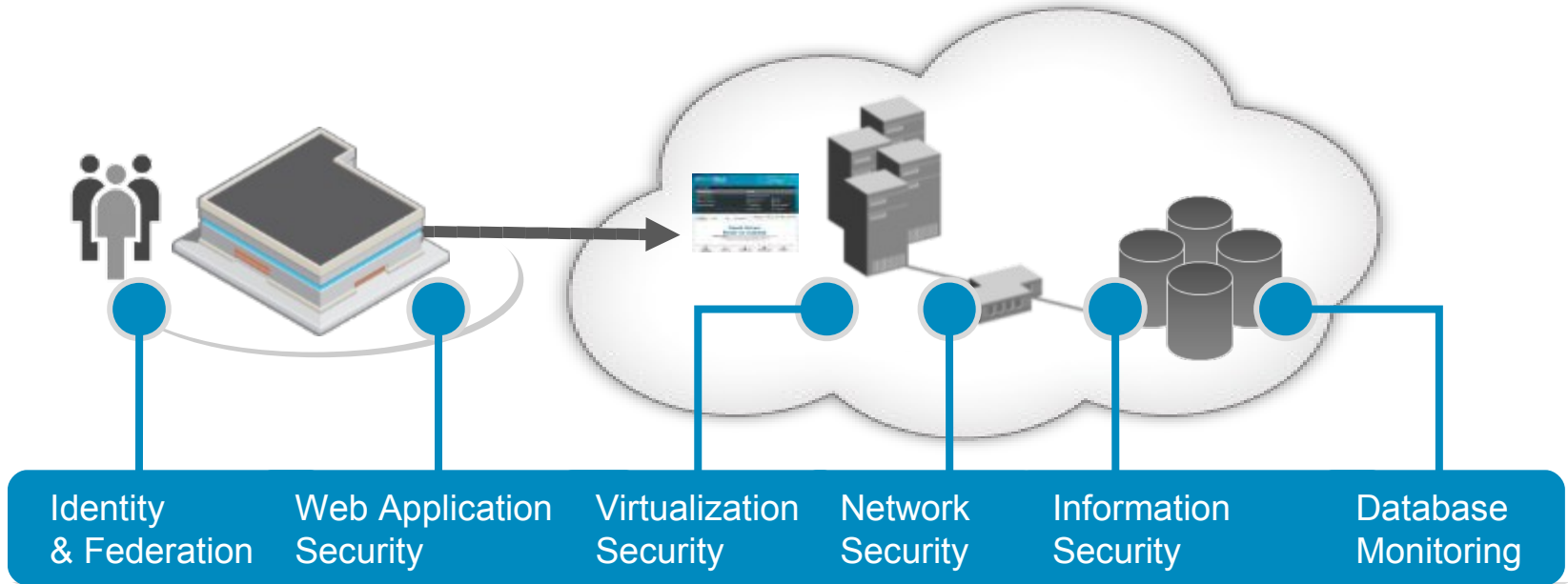


Security intelligence helps clients build a more optimized security posture



	People	Data	Applications	Infrastructure
	Security Intelligence: Information and event management Advanced correlation and deep analytics External threat research			
	Role based analytics Identity governance Privileged user controls	Data flow analytics Data governance	Secure app engineering processes Fraud detection	Advanced network monitoring Forensics / data mining Secure systems
	User provisioning Access mgmt Strong authentication	Access monitoring Data loss prevention	Application firewall Source code scanning	Virtualization security Asset mgmt Endpoint / network security management
Basic	Centralized directory	Encryption Access control	Application scanning	Perimeter security Anti-virus

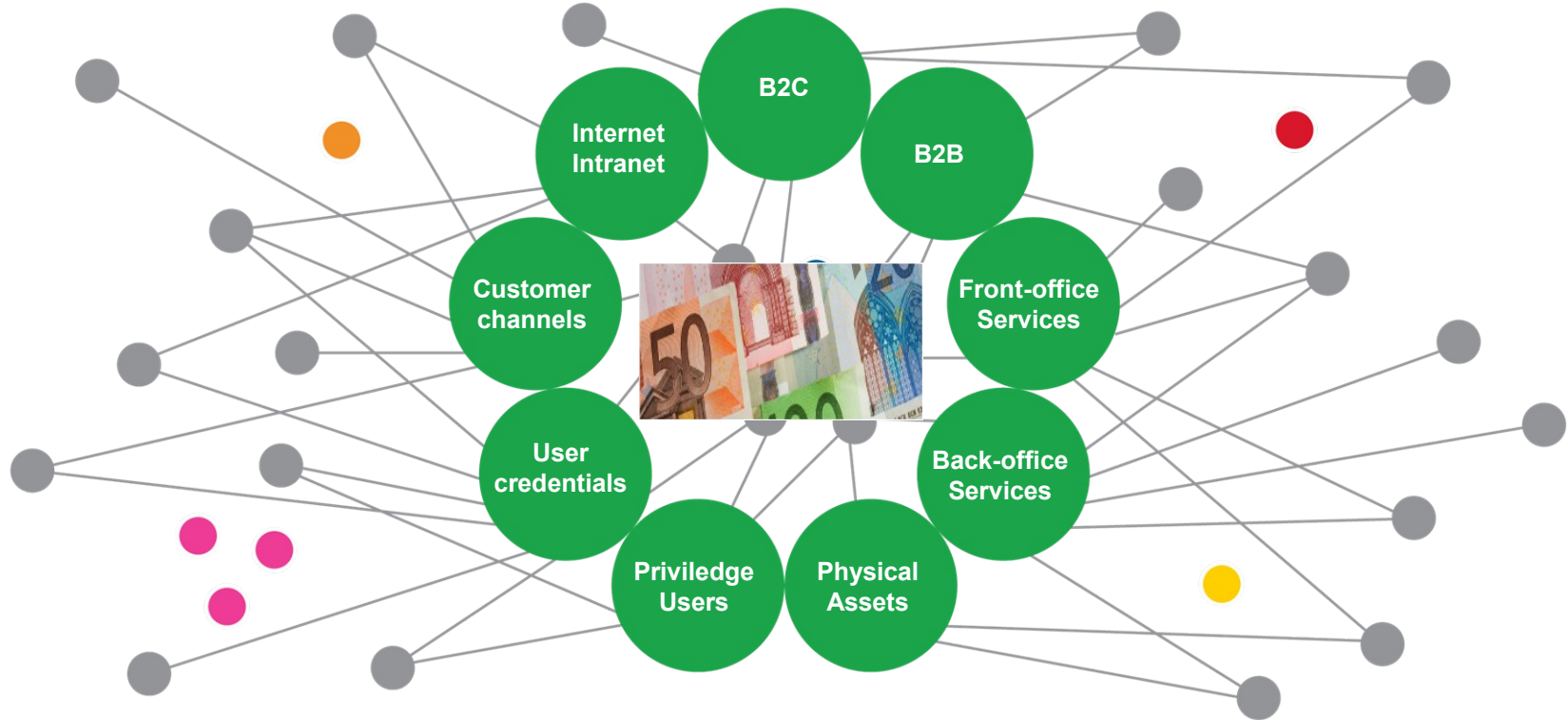
Our approach is to help clients adopt layered security across the entire company IT infrastructure



IBM Security Intelligence



... with the right mix of control measures to proactively deal with financial cyber-crimes across all points of vulnerability



● Legitimate customers

● Rogue traders

● Disgruntled employees

● Money launderers

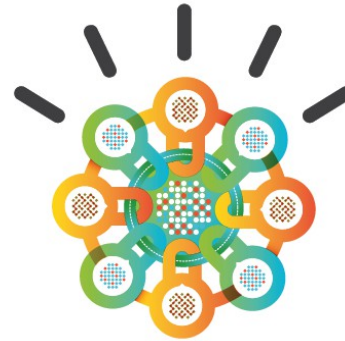
● Terrorist financiers

● Organized crime

● Identity thieves



IBM Security



IBM Security

IBM Security Systems

IBM Security Services

Products spanning the
IBM Security Framework

Cloud, Managed, and
Professional Security Services

Thought Leadership /
Brand Awareness

Leveraging IBM Research, Security Expertise, and Best-of-Breed Technologies

Intelligence, integration and expertise across a comprehensive framework is needed

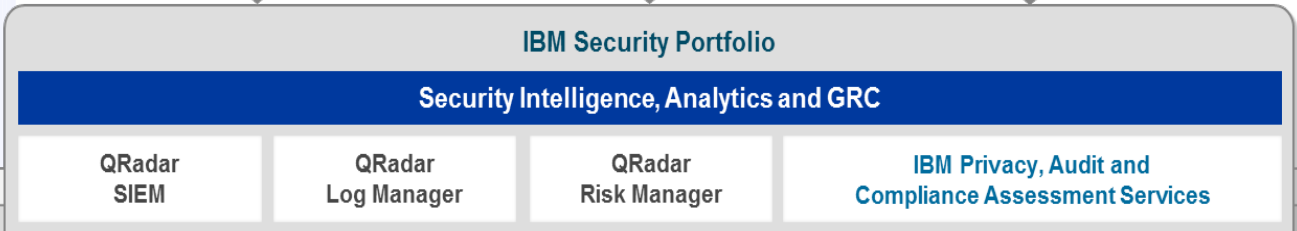
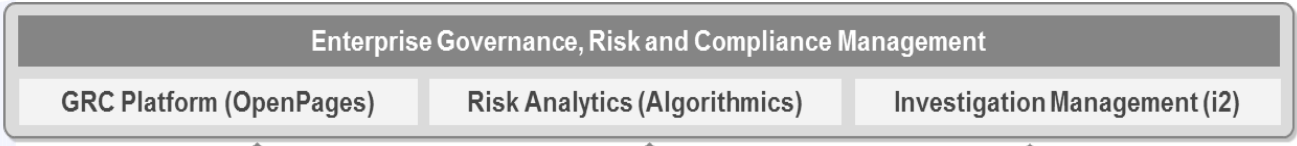
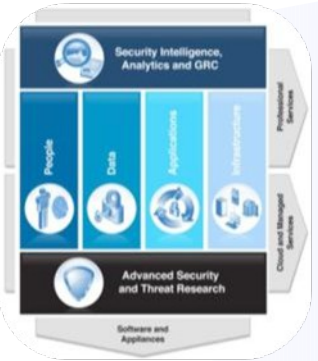
IBM Security Intelligence



Intelligence . Integration . Expertise

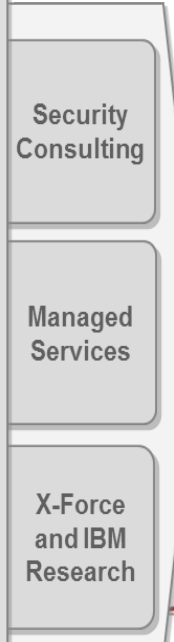


Intelligence: Product Portfolio, Services and Research



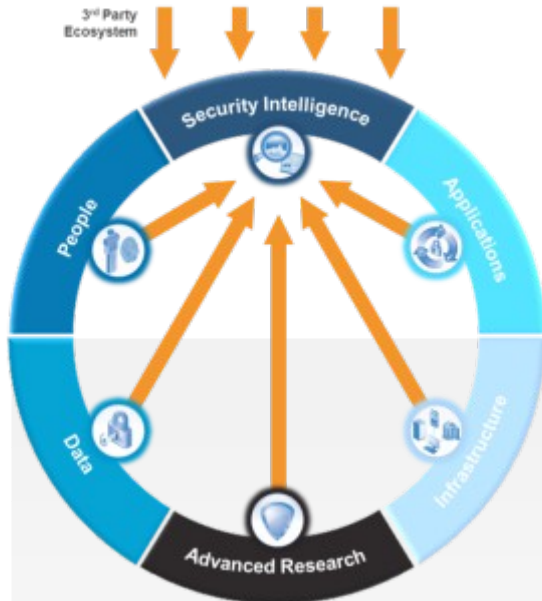
IT Infrastructure – Operational Security Domains

People	Data	Applications	Network	Infrastructure	Endpoint
Identity & Access Management Suite	Guardium Database Security	AppScan Enterprise, Standard & Source	Network Intrusion Prevention	Endpoint Manager (BigFix)	
Federated Identity Manager	InfoSphere Optim Data Masking	DataPower Security Gateway	SiteProtector Management System	Virtualization & Server Security	
Enterprise Single Sign-On	Key Lifecycle Manager	Security Policy Manager	QRadar Anomaly Detection	Mainframe Security (zSecure, RACF)	
Identity Assessment, Deployment and Hosting Services	Data Security Assessment Service	Application Assessment Service	Managed Firewall, UTM, and Intrusion Prevention Services	Penetration Testing Services	
	Encryption and DLP Deployment	AppScan OnDemand - SaaS		Mobile Device Management	



Products Services

Integrated Intelligence.



- Consolidate and correlate siloed information from hundreds of sources
- Detect, notify and respond to threats missed by other security solutions
- Automate compliance tasks and assess risks

Integrated Research.



- Stay ahead of the changing threat landscape
- Detect the latest vulnerabilities, exploits and malware
- Add security intelligence to non-intelligent systems


Integrated Protection.



- Customize protection to block specific vulnerabilities using scan results
- Converge access management with web service gateways
- Link identity information with database security



IBM's approach as an enterprise and service provider

Focused on security essentials, informed by the IBM Security Framework



1. Build a risk-aware culture and management system

6. Control network access and help assure resilience






2. Manage security incidents with greater intelligence

IBM Security Framework





7. Address new complexity of cloud and virtualization



3. Defend the mobile and social workplace

8. Manage third-party security compliance


4. Security-rich services, by design

9. Better secure data and protect privacy

5. Automate security "hygiene"

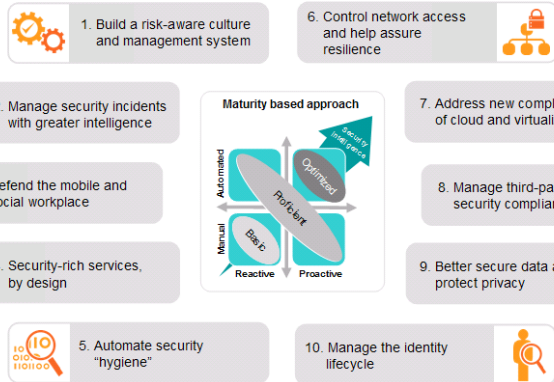
10. Manage the identity lifecycle





Our strategy is to meet our Clients' security needs with a range of high value services from consulting to managed services

Essential practices



Consulting services

Focus on strategy & benchmarking – showcasing our industry expertise

Architecture & Implementation services

Focused on consistent delivery methods and skills enablement on key platforms

Managed & Cloud services

Focused on platform support and analytics of existing services, while adding new, high value, cloud based services

An IBM Managed Security Services sourcing strategy can help your business gain competitive advantage

Potential opportunities at company level

- Access to innovation
- Core competence
- Competitiveness
- Focusing
- Shareholder value
- Flexibility
- Ability to react



Potential opportunities at IT level

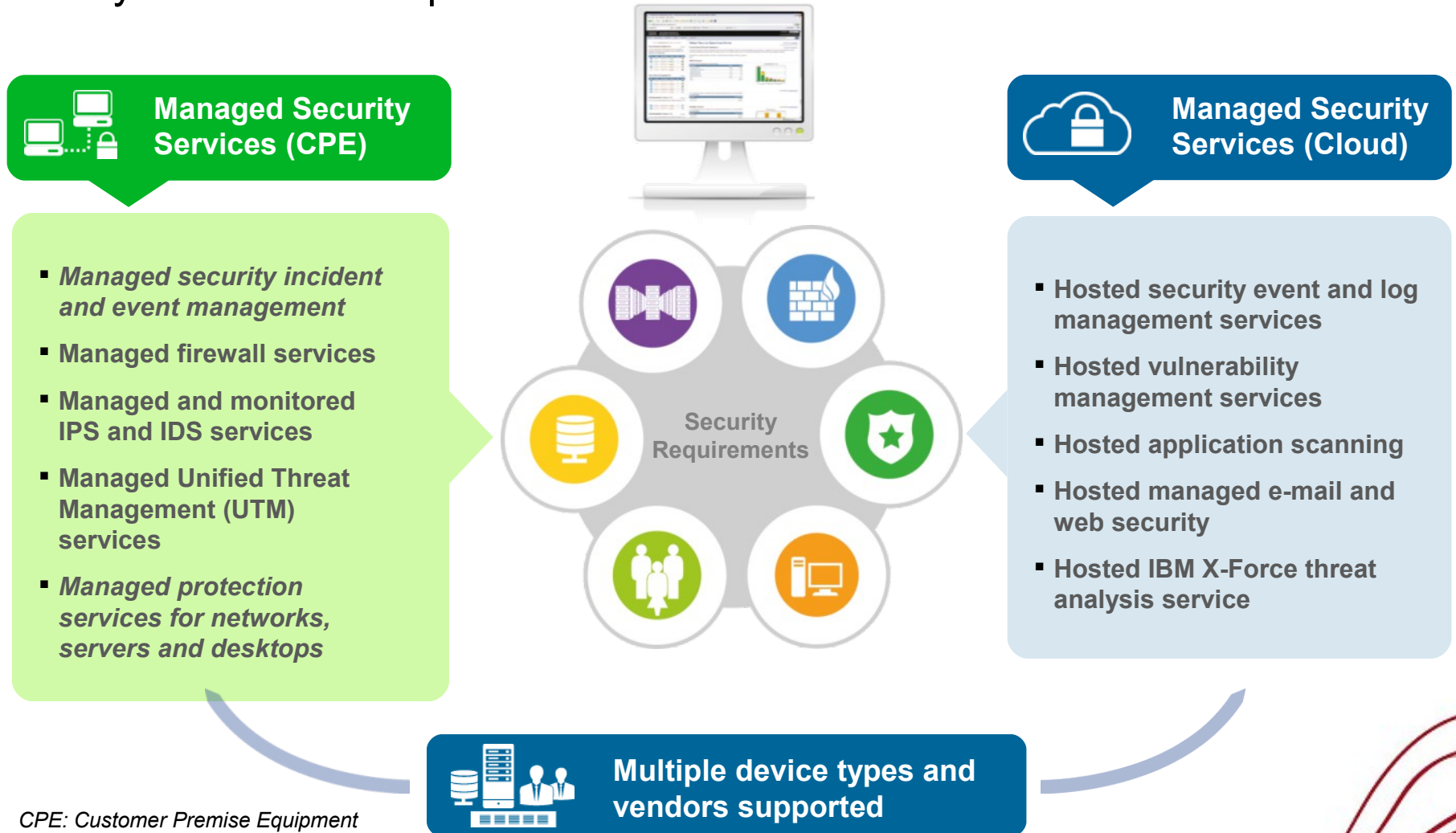
- Reduction of costs
- Access to IT expertise
- Delivery of consistent service levels
- Sharing of responsibility
- Risk sharing
- Risk reduction
- Predictable pricing

Managed Security Services





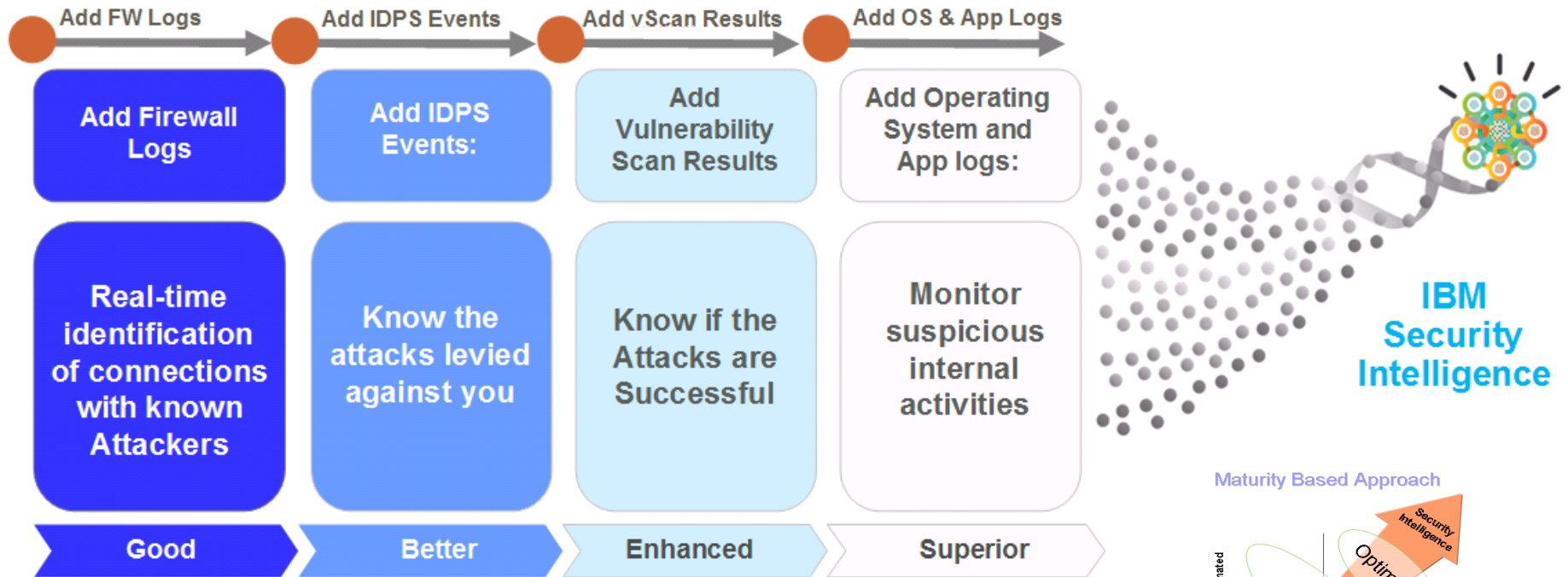
IBM offers a broad managed security service portfolio to help address a variety of business requirements



CPE: Customer Premise Equipment
IPS: Intrusion Prevention System
IDS: Intrusion Detection System

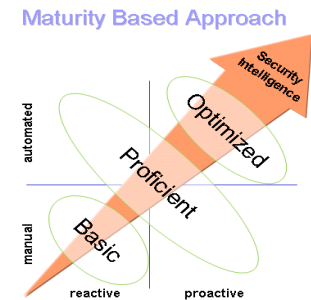


IBM Manages Services can help optimize your security intelligence



Services recommended to enable these capabilities:

- (1) Firewall Mgmt
(2) Managed UTM
(3) Hosted SELM
- (1) Managed IDPS
(2) Managed UTM
(3) MPS
(4) Hosted SELM
- (1) VMS 2.0
- (1) Hosted SELM



Expertise: Global coverage and security awareness



IBM Research

IBM Institute for Advanced Security

Enabling cybersecurity innovation and collaboration



14B analyzed Web pages & images
40M spam & phishing attacks
54K documented vulnerabilities
Billions of intrusion attempts daily
Millions of unique malware samples



World Wide Managed Security Services Coverage

- 20,000+ devices under contract
- 3,700+ MSS clients worldwide
- 13B+ events managed per day
- 1,000+ security patents
- 133 monitored countries (MSS)

*Il costo della non-sicurezza
è*

*l'impossibilità di innovare
ai ritmi richiesti dal mercato*

Security Intelligence

--noun

The real-time collection, normalization, and analytics of the data generated by users, applications and infrastructure that impacts the IT security and risk posture of an enterprise.

Security Intelligence provides actionable and comprehensive insight for managing risks and threats from protection and detection through remediation

