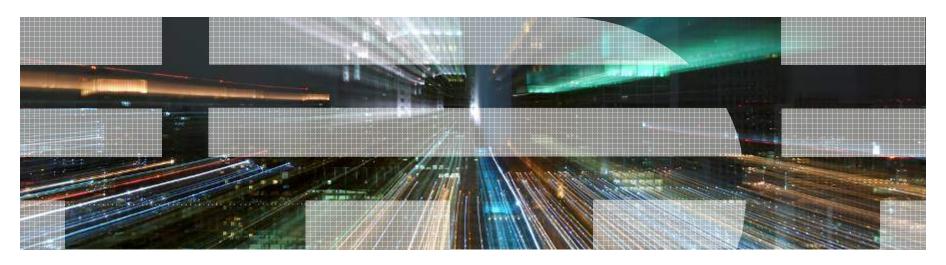


# Big Data – Opportunité et risques

# Security for a Smarter Planet



Michel Bobillier Global Sales Leader, IBM Security Solutions November 6th, 2012



## Today's Discussion Topics

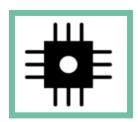
- Big Data
- Smarter Planet
- Security impact
- The implications Security "New Normal"



2 poration







Revenue 2011: \$107B (+7%). Profit \$15.8B +7%)

427'000 employees in 170 countries



M → S: Software, Services (>80%)



Acquisitions

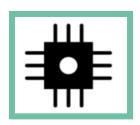


Smarter Planet, Business Analytics, Cloud computing





# "Big Data" Buzz Word or Revolution?

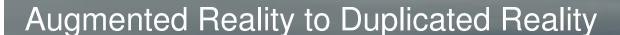


Memory cheaper than paper

5 EB created every 2 days (Google' CEO)







TB, PB, EB, ZB, YB ...

Gold mine ...

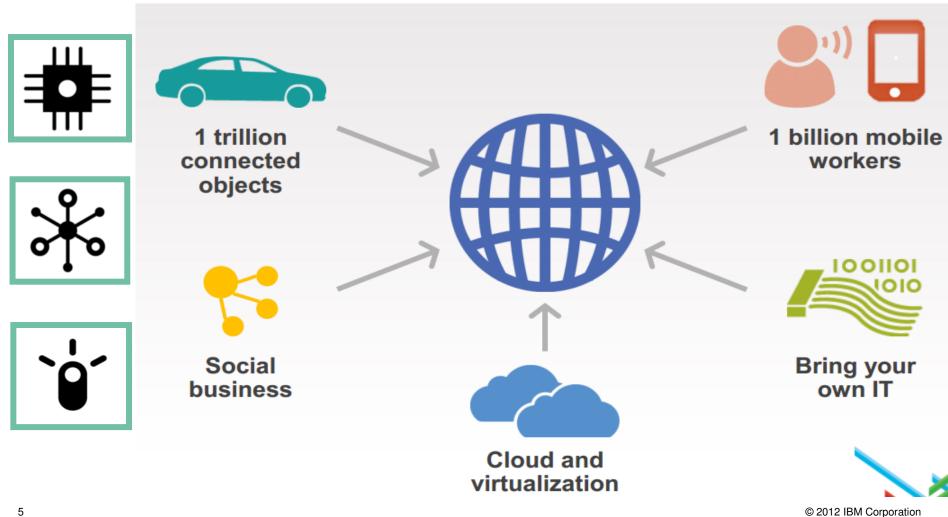
... and a security risk







## Innovative technology changes everything Better, Faster, Cheaper





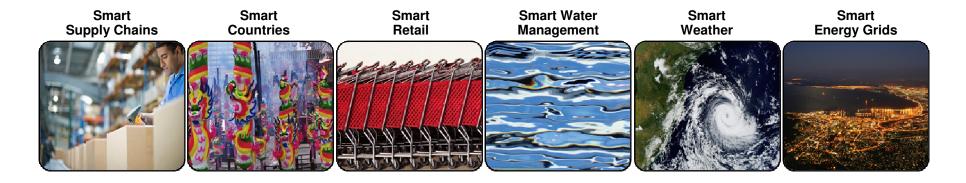


# The Smarter Planet

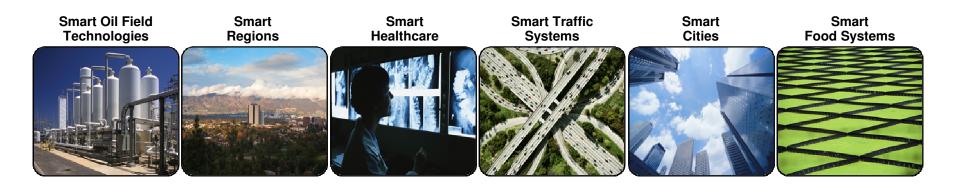




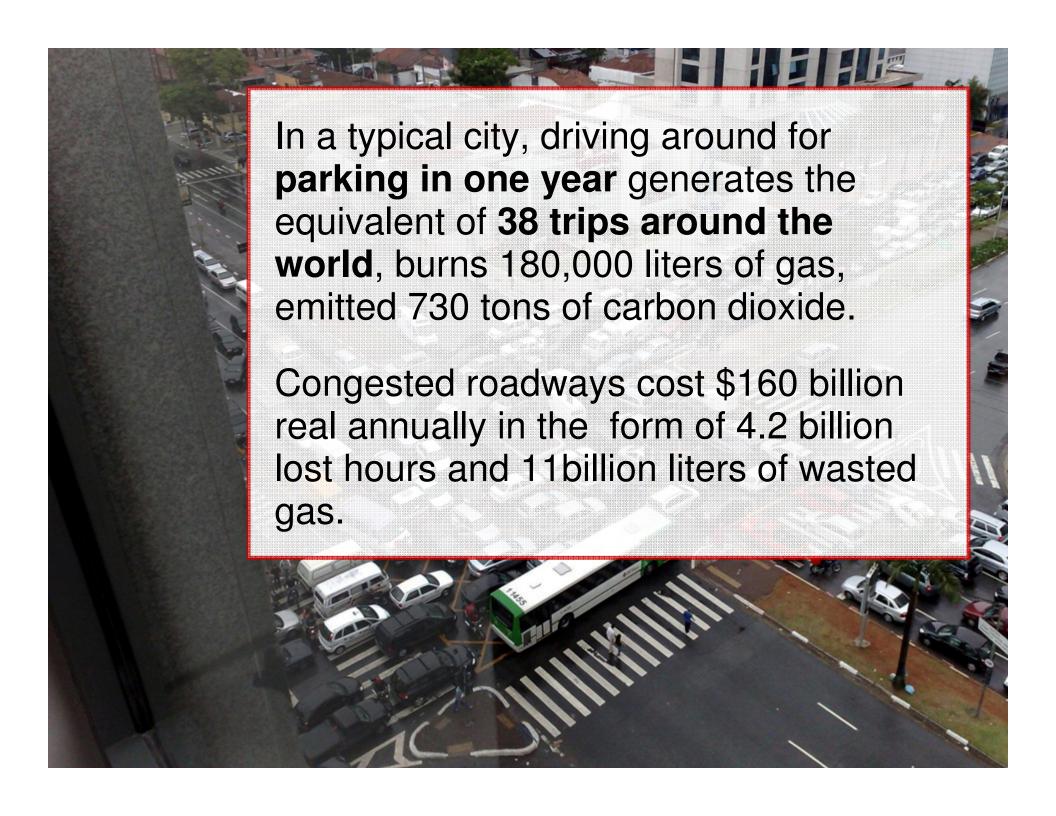
#### The Planet is getting more...



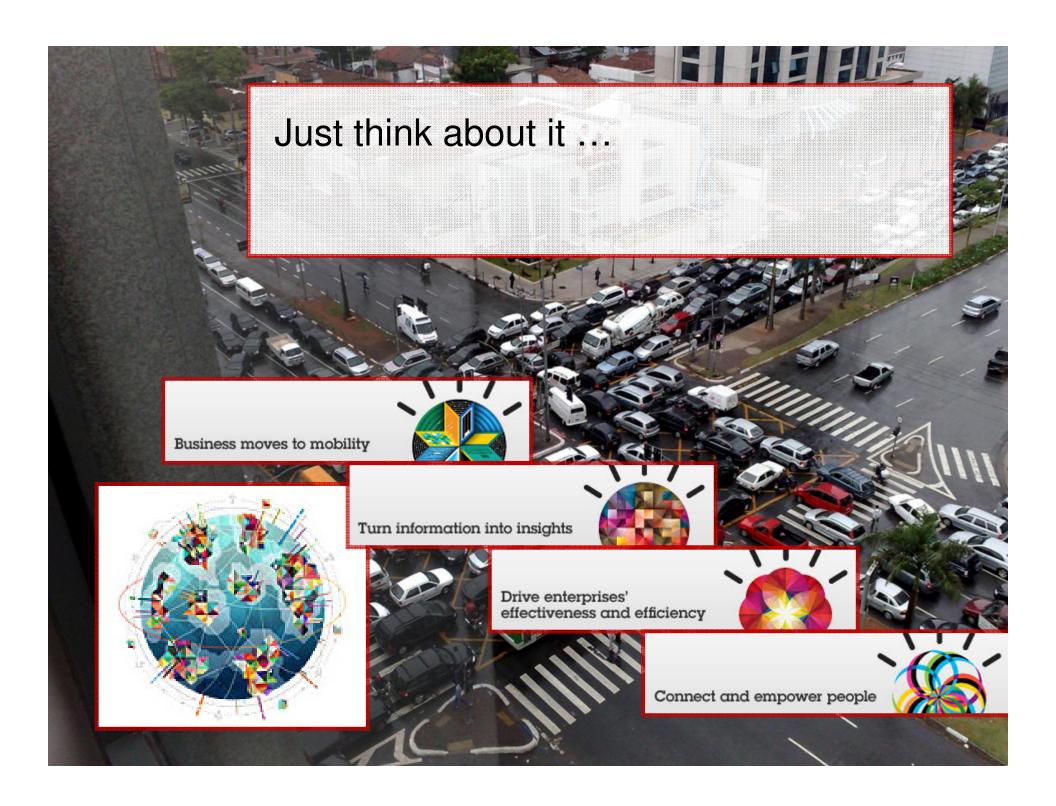




It isn't just because we can. It is because we must.









#### What is the risk?















### Motivations and sophistication are rapidly evolving

National Security

Espionage, Activism

Monetary Gain

Revenge, Curiosity



Organized crime Zeus

Insiders and Script-kiddies Code Red

**Flame** 

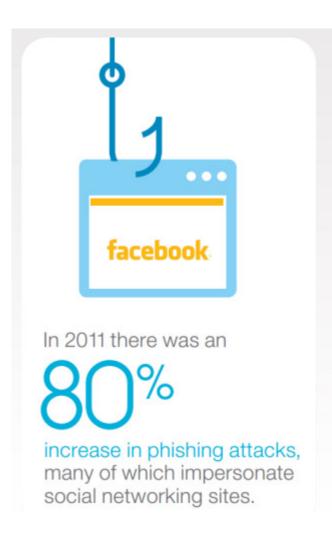
Nation-state actors
Stuxnet

Competitors and Hacktivists

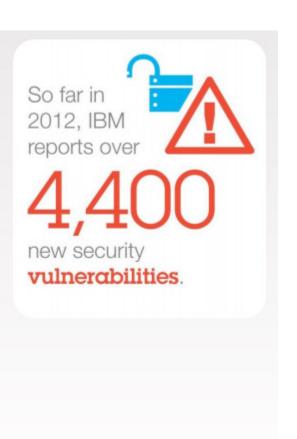
Aurora



### Techniques, tools, and targets are also increasing

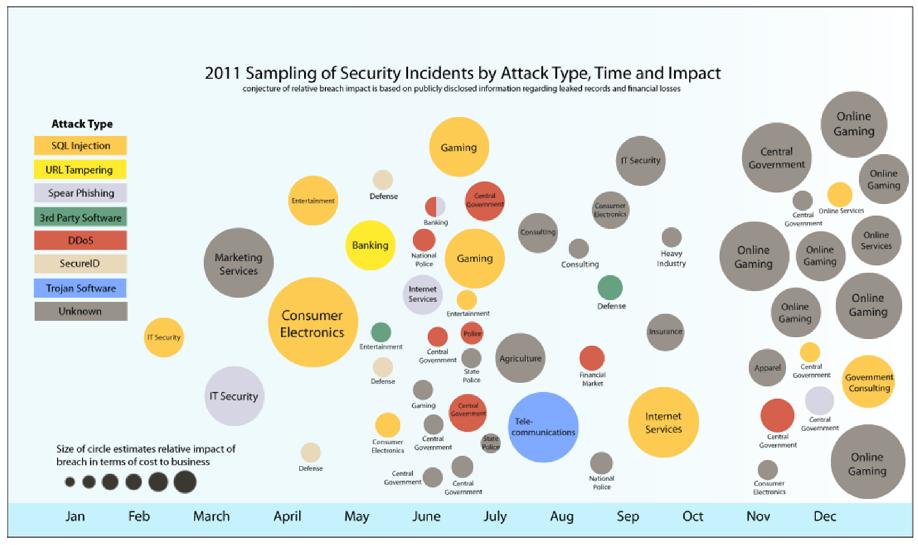








### 2011: Year of the Targeted Attack



Source: IBM X-Force® Research 2011 Trend and Risk Report



Global coverage brings expertise and detailed security





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)

JK 2012-04-2



# What are we seeing? Key Findings from the 2012 Trend Report

#### **Progress in Internet Security**

- Significant decrease of PDF vulnerabilities
- Fewer exploit releases
- Better patching

#### But...

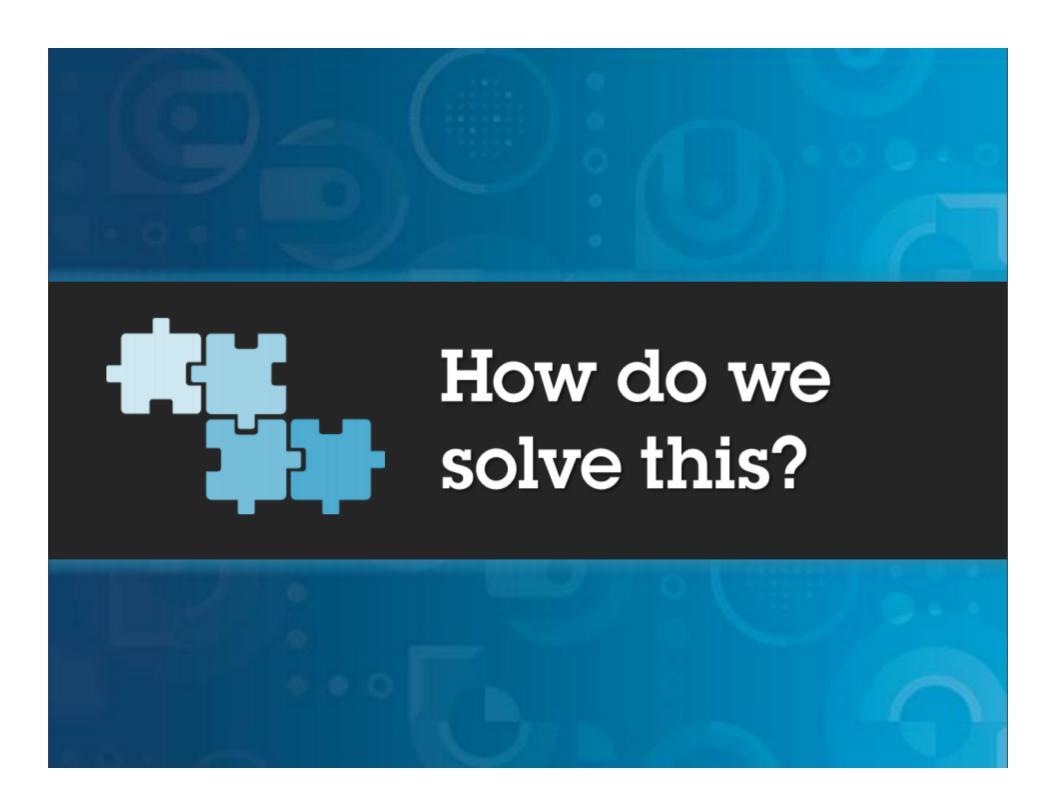
#### **New Attack Activity**

- MAC APT and Java exploits surface
- Password leaks raise renewed awareness
- SQL injection most preferred attack type
- XSS tops at 51% of all web app vulnerabilities

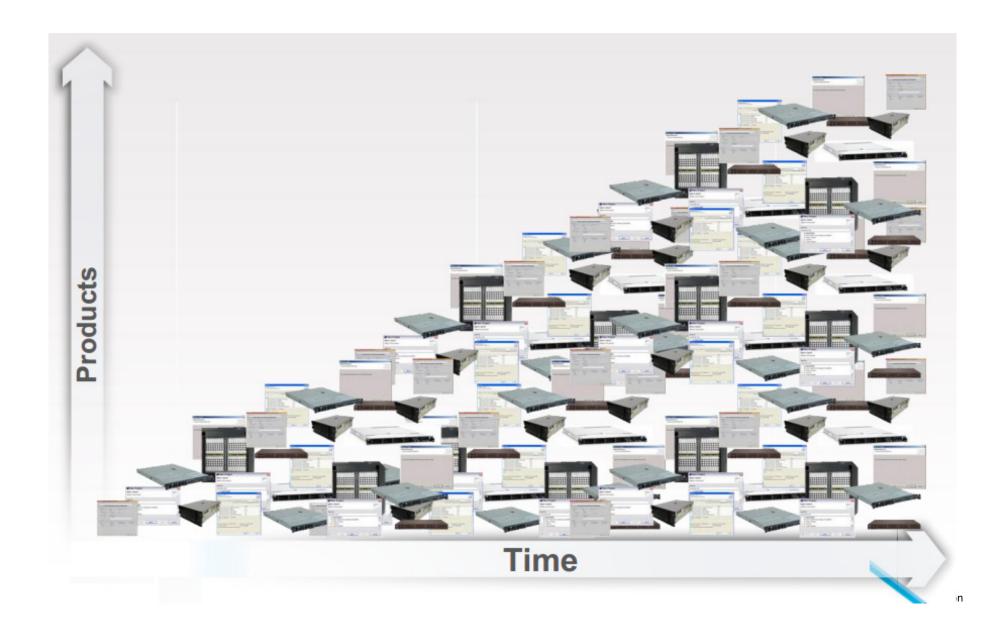
#### The Challenge of Mobile BYOD

- Patching of mobile devices a real challenge
- CISOs say mobile security is greatest near-term technology concern

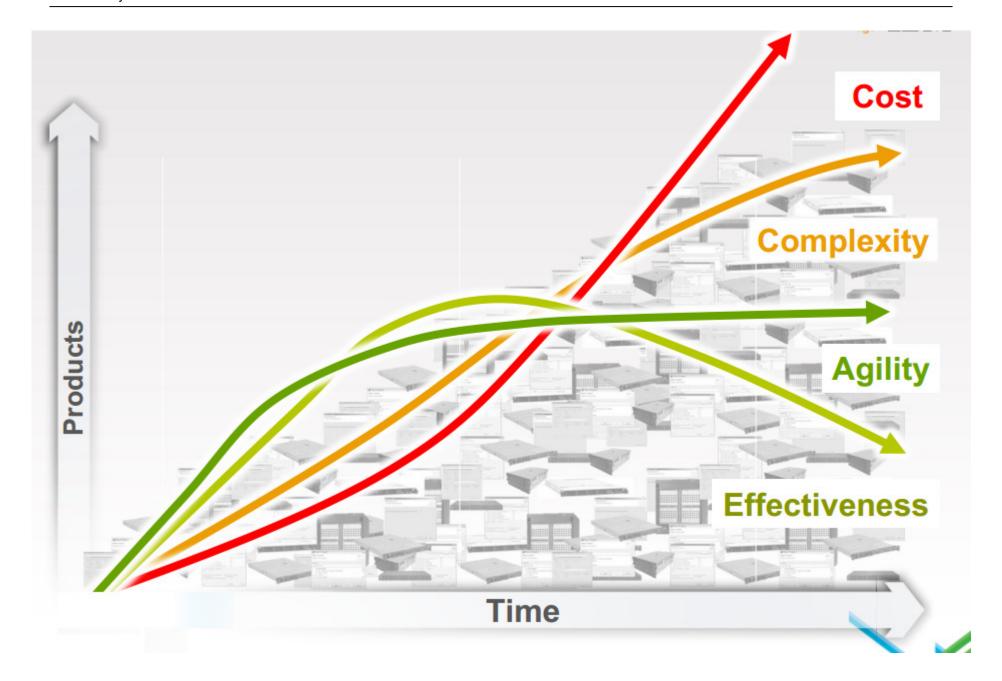






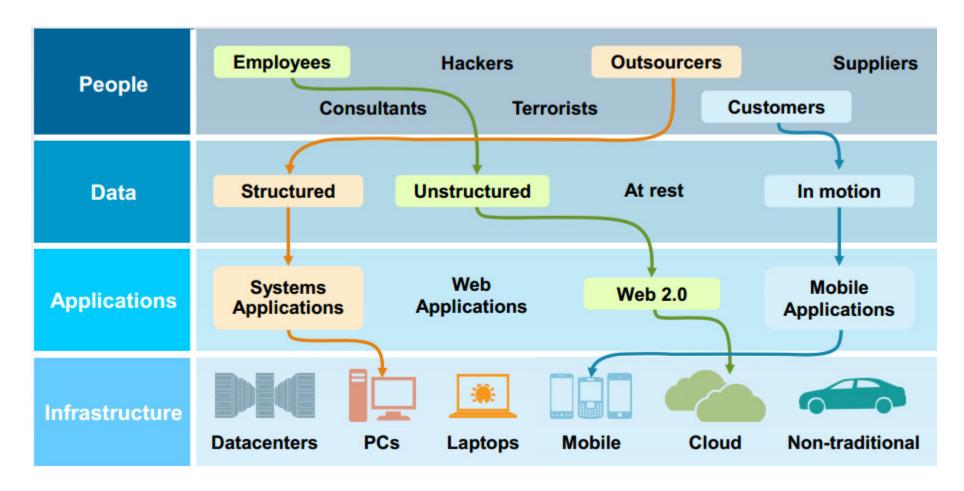








### The attack surface is growing exponentially

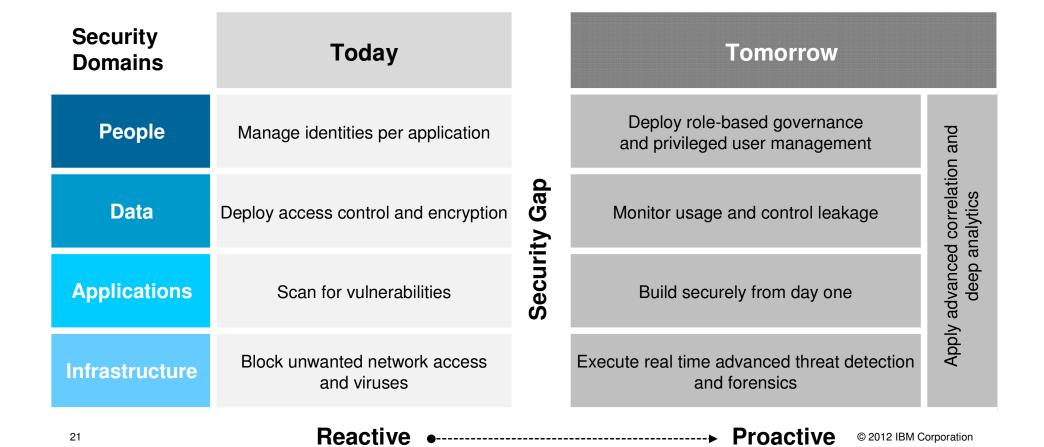


77% of firms feel cyber-attacks harder to detect and 34% low confidence to prevent



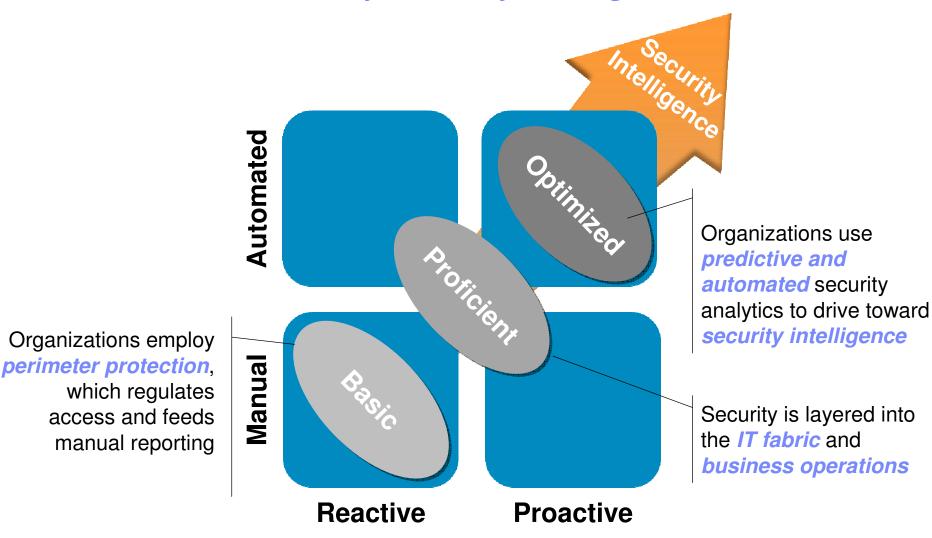
# IBM Security Point Of View: shift from point product to integrated enterprise defense

Security will shift from a point product approach to an integrated enterprise approach, based on key foundational elements that allow for active management, real time information, analytical correlation, and predictive threat management



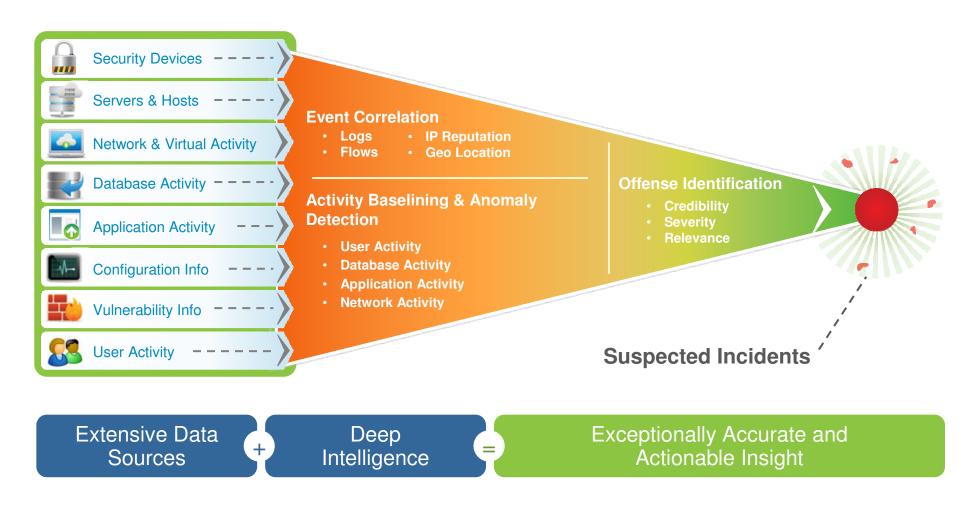


### A "New Normal" led by Security Intelligence





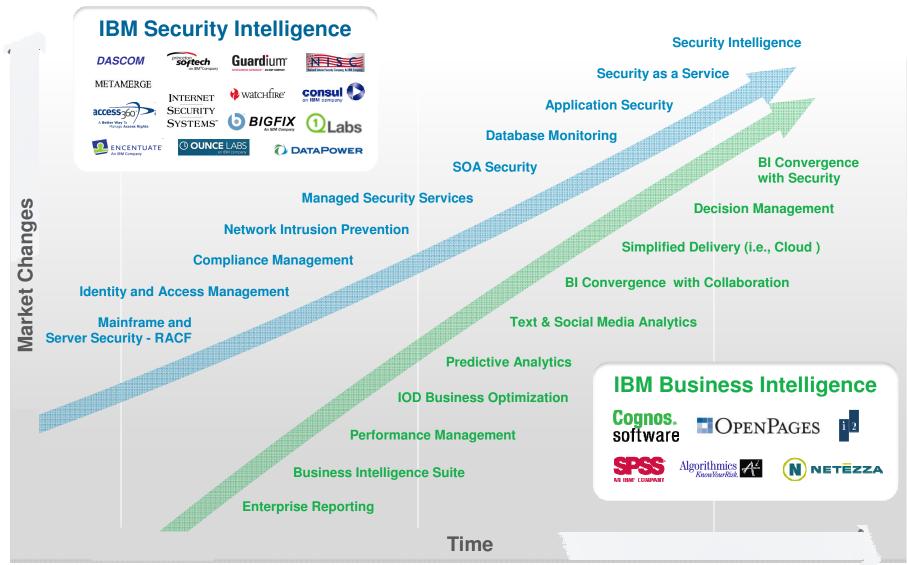
# Full Visibility and Actionable Insight for Total Security Intelligence



24



### Security and Business Intelligence offer insightful parallels



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## Security Intelligence





#### From

Log collection and signature based detection

То



- Real Time Monitoring
- Context-aware anomaly detection

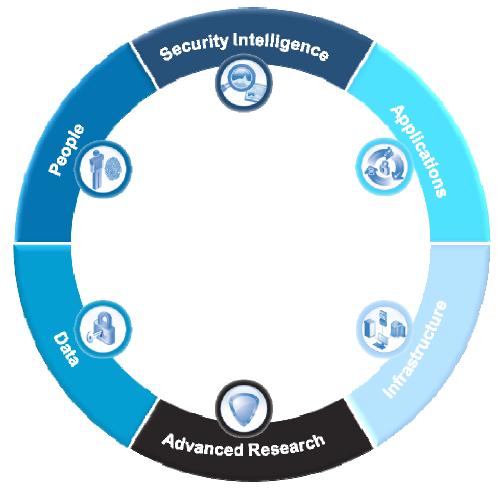


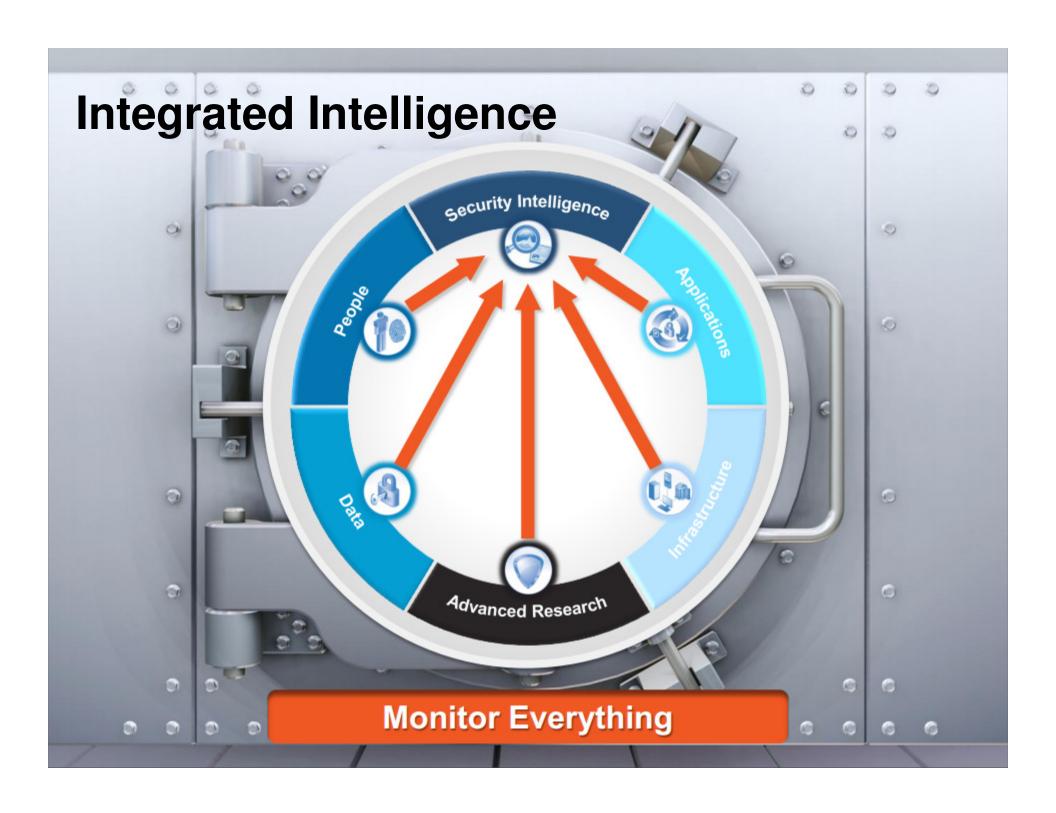


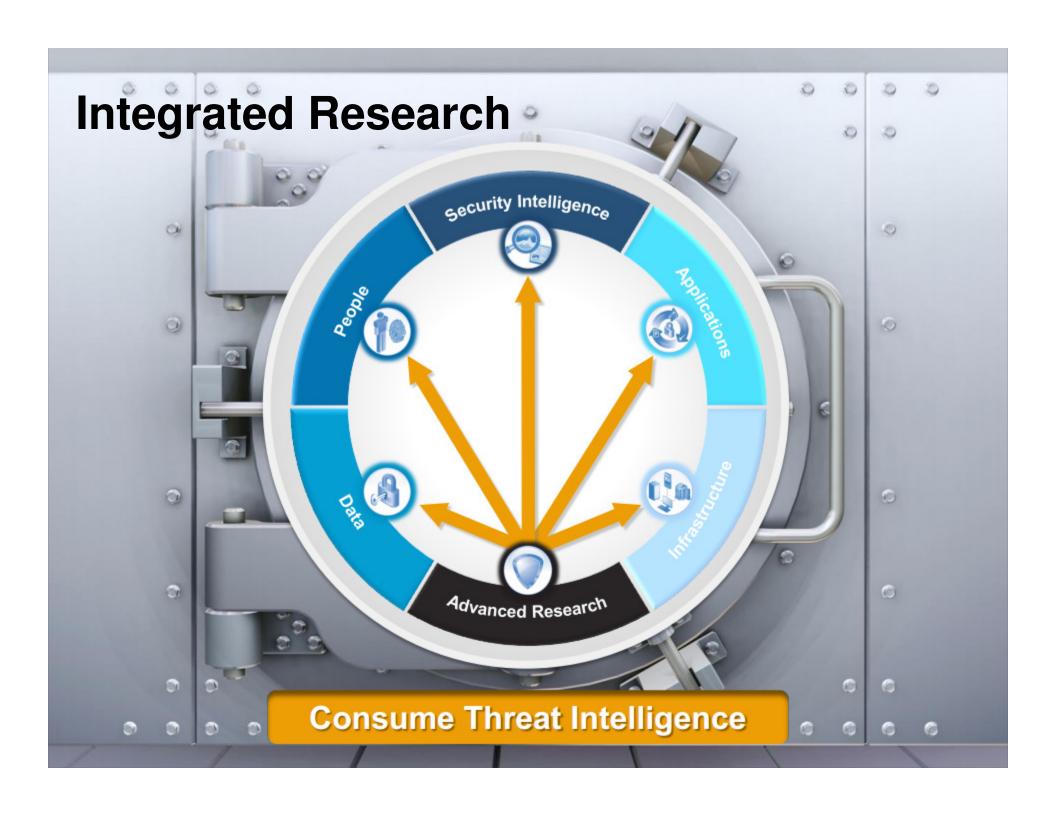


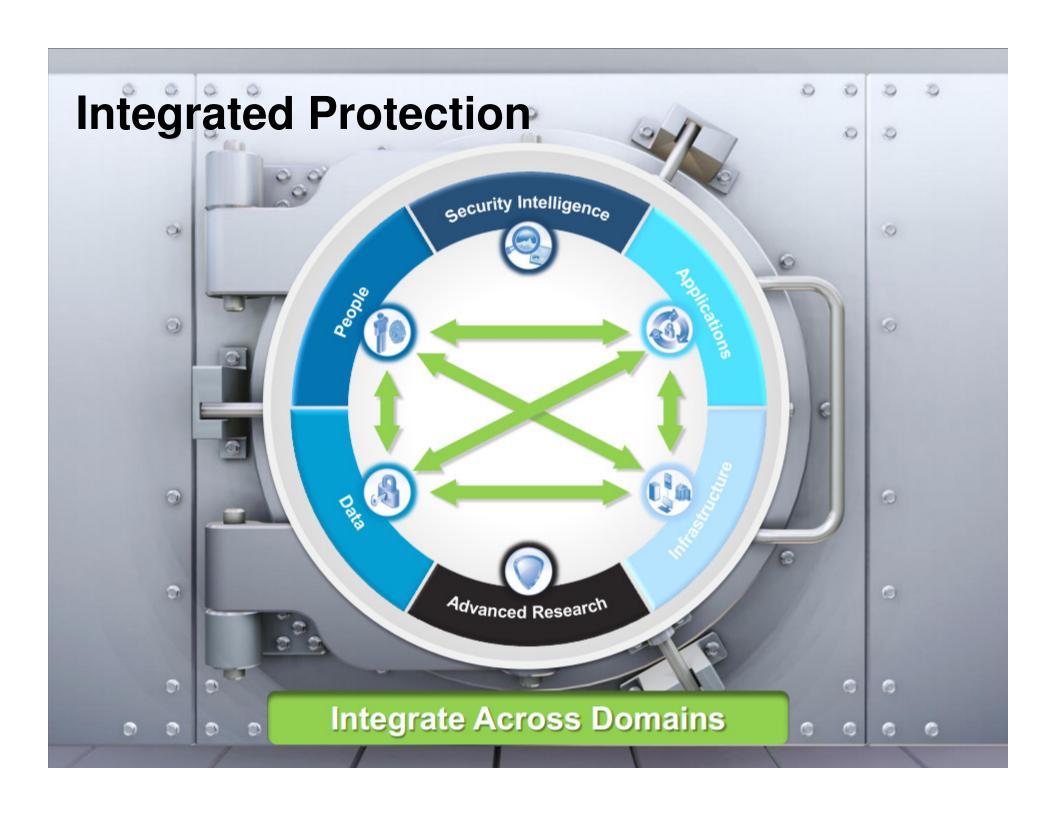
# Integration of the IBM Security Framework provide incremental security value







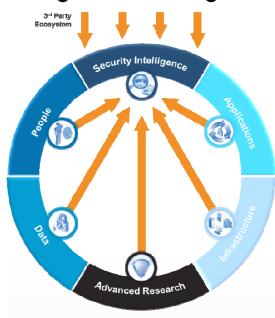






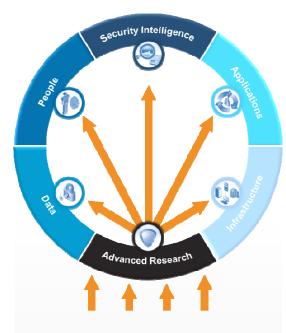
# **Integration**: Increase security, collapse silos, and reduce complexity

#### Integrated Intelligence.



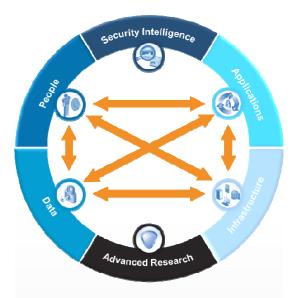
- Consolidate and correlate siloed information from hundreds of sources
- Designed to detect, notify and respond to threats missed by other security solutions
- Automate compliance tasks and assess risks

#### Integrated Research.



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

#### Integrated Protection.



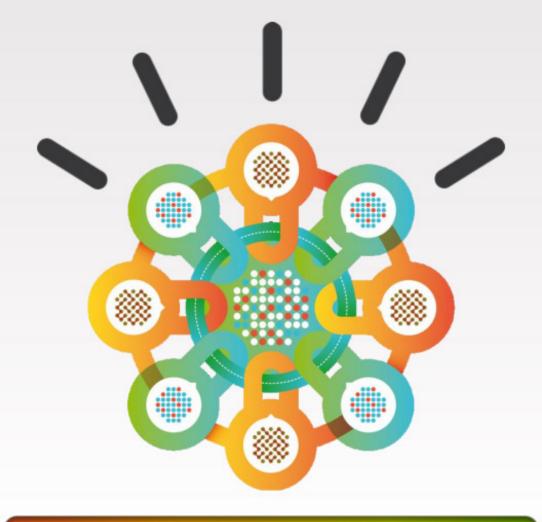
- Customize protection capabilities to block specific vulnerabilities using scan results
- Converge access management with web service gateways
- Link identity information with database security



# Security Intelligence delivered through a comprehensive framework







Security Intelligence







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