#### RSACONFERENCE 2013

# Managing Enterprise Risk: WHY U NO HAZ METRICS?

**Moderator:** 

John D. Johnson
John Deere

**Panelists:** 

Alex Hutton

A Financial Organization

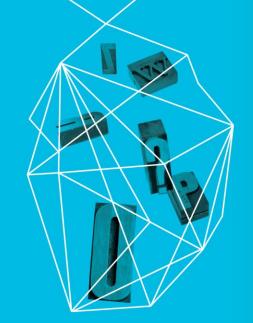
David Mortman enStratus

Caroline Wong
Symantec

**Jack Jones** 

**CXOWARE** 

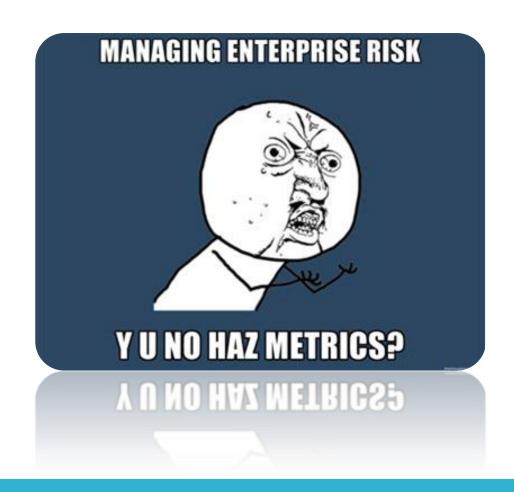
Security in knowledge



Session ID: GRC-W23

Session Classification: Intermediate

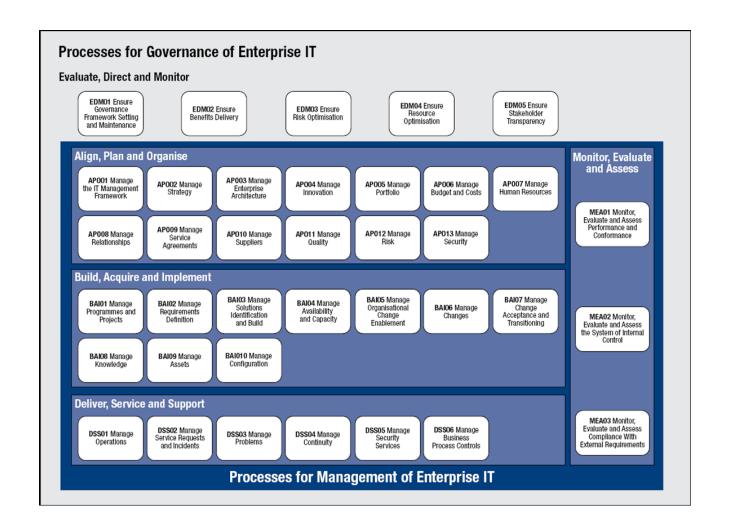
## In a nutshell...



# Agenda

- How is risk management related to security?
- What is the goal of risk management?
  - How do we define risk?
  - How can we manage risk?
- What is the value of having security metrics?
  - How do I develop meaningful metrics?
- How can good measurements and practices reduce risk?
  - Where can I find models, frameworks & best practices?
    - How can I adapt these for my organization?
  - Are there good data sets I can leverage here?
    - ► How do I estimate future events by looking at the past? Is this voodoo?

### **COBIT 5 Process Reference Model**



### Alex

#### **Favorites:**

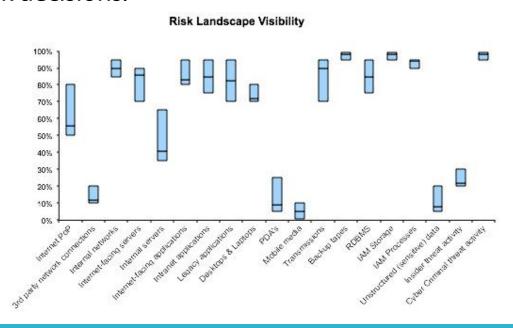
- Cost Center Most At Risk
- Cost Center With Most Variance
- Asset Class With Most Variance

#### Most Useful:

- Fraud Cause Counts
- Amount of Exposure per Cause
- Amount Lost per Cause

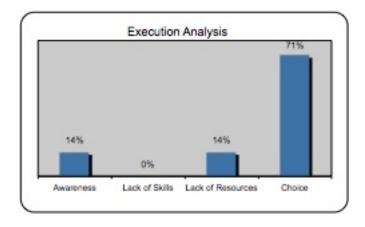
### Jack

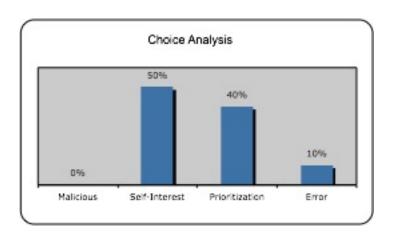
<u>Risk Landscape Visibility</u> – helps us understand how well informed (or not) our risk decisions are. The values represent data and estimates regarding four elements (asset population, threat conditions, value/liability at risk, and control conditions). This helps us to focus on specific areas of poor visibility, thus improving our ability to make wellinformed risk decisions.



### Jack

<u>Root Cause Analysis</u> — which helps us understand why undesirable conditions exist (e.g., non-compliance with policy). This enables us to focus on our efforts to systemically improve.





# Caroline: Quantitative and Qualitative Metrics for Patch and Vulnerability Management

Qualitative Metric	Purpose
Which business units receive network vulnerability scan reports from the information security team?	<ul> <li>Visibility for process improvement</li> <li>Can be used to manage risk and improve performance</li> </ul>
Which business units remediate their vulnerabilities based on the scan report	<ul> <li>Visibility for process improvement</li> <li>Can be used to manage risk and improve performance</li> </ul>
Which business units deploy patches within the timeframe specified in the information security group's SLA?	<ul> <li>Visibility for process improvement</li> <li>Can be used to manage risk and improve performance</li> </ul>
Which business units have high-criticality vulnerabilities that have not been remediated in 90 days?	<ul><li>Visibility for process improvement</li><li>Can be used to manage risk and improve performance</li></ul>
Quantitative Metric	Purpose
Percentage of patches deployed within the timeframe specified in the information security group's SLA	Compliance with information security standards and
70 1	understanding of risk posture
Average time to deploy a normal patch	<ul> <li>understanding of risk posture</li> <li>Understand risk posture, speed and performance</li> <li>Can be used to manage performance &amp; decrease avg time</li> </ul>
	Understand risk posture, speed and performance

<sup>\*</sup> Wong, Caroline (2011-10-20). Security Metrics, A Beginner's Guide. McGraw-Hill.

# Take Aways

- Security governance needs to mature and be aligned with the business
  - Showing that we can manage enterprise (security) risk will earn us a seat at the table
- Security Governance ≠ GRC
- Governance without metrics & models is voodoo
- ► Good metrics and practices → Good Governance → Risk Reduction

# Take Aways

- "Managing risk means aligning the capabilities of the organization, and the exposure of the organization with the tolerance of the data owners." (Jack)
- "Whatever Metric you present, it is a risk metric. Any security metric you present will be consciously or subconsciously interpreted by the audience in their own internal risk model. It is inescapable." (Alex)

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- FAIR Framework http://fairwiki.riskmanagementinsight.com
- Verizon VERIS Framework
   https://verisframework.wiki.zoho.com
- <u>Security Metrics: A Beginner's Guide</u>,
   Caroline Wong
   http://is.gd/6g62uS

