

# RSA® Conference 2015

San Francisco | April 20-24 | Moscone Center

SESSION ID: [CXO-W02](#)

## Security Metrics That Your Board Actually Cares About!

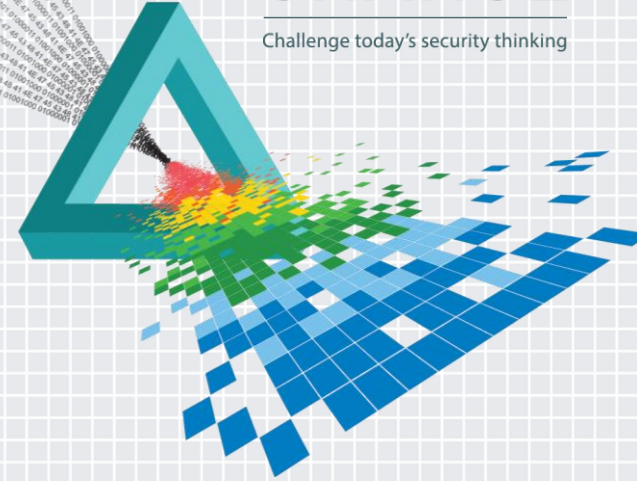
**Troy Braban**

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Chief Information Security Officer  
Australia Post  
@troybraban

# CHANGE

Challenge today's security thinking



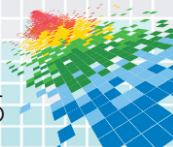
# Let's set some ground rules for today.



Aussies have  
weird accents.  
Front row:  
*hands up if I talk  
too fast*

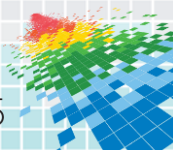


Audience  
participation  
mandatory: *Let's  
create our own  
metrics today...*



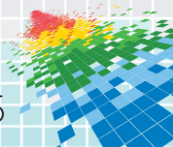
If you keep doing what you've been doing, you'll keep getting what you've been getting."

- Herrington, J., Bonem, M, & Furr, J

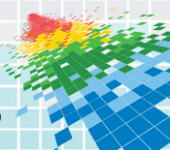


“People who are CISOs in many organizations are excellent technicians...But they don't speak the language of business.”

- Larry Ponemon



83.45%\* of metric  
presentations at 96.82%\* of  
security conferences suck...



# Are we... the security industry... getting this right?



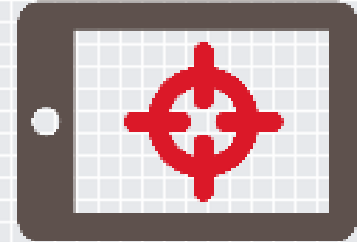
1006

(CIO / CISO / IT:  
US, Europe, Middle  
East, Africa)



22%

Board engaged in  
last 12 months

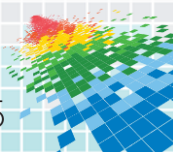


34%

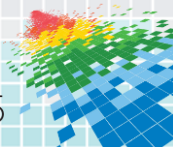
Strategic business  
priority



Source: Ponemon Institute Global Megatrends CyberSecurity 2015 survey



# Our industry has it wrong – compliance is not the way to engage a Board!

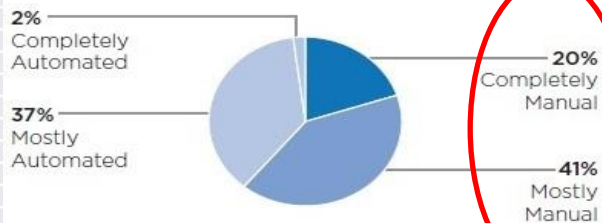




# A Corporate Executive Board report gives real insight...

## Too Much Work and...

### Automation of Metrics Collection



n = 46.

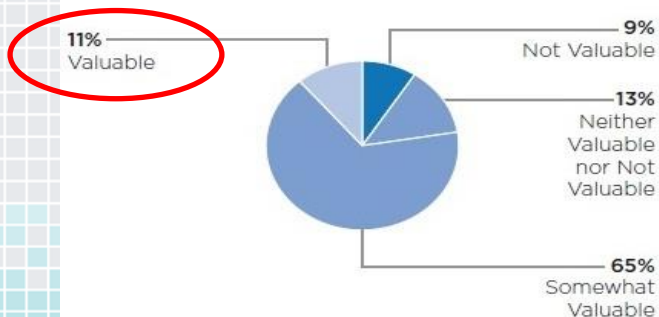
## ...Don't Support Security Strategy

### Metrics Program Maturity



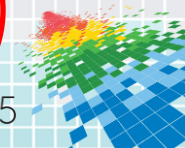
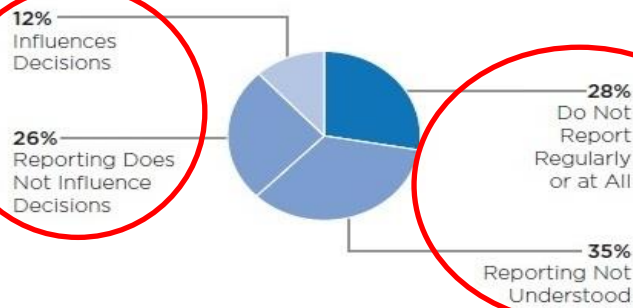
## ...Don't Help Manage Risks

### Predictive Value of Metrics Collected



## ...Don't Influence Business Decisions

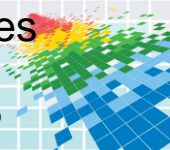
### Effectiveness of CISO Reporting to Senior Executives





# ...highlighting the need for us to challenge the industry metrics that we use...

- ◆ Patch Policy Compliance
- ◆ Patch Management Coverage
- ◆ Mean-Time to Patch
- ◆ Vulnerability Scan Coverage
- ◆ Percent of Systems Without Known Severe Vulnerabilities
- ◆ Number of Applications
- ◆ Percentage of Critical Applications
- ◆ Risk Assessment Coverage
- ◆ **Security Testing Coverage**
- ◆ Mean-Time to Complete Changes
- ◆ Percent of Changes with Security Review
- ◆ Percent of Changes with Security Exceptions
- ◆ **Information Security Budget as % of IT Budget**
- ◆ Information Security Budget Allocation
- ◆ Mean-Time to Incident Discovery
- ◆ Incident Rate
- ◆ Percentage of Incidents Detected by Internal Controls
- ◆ Mean-Time Between Security Incidents
- ◆ Mean-Time to Recovery
- ◆ Mean-Time to Mitigate Vulnerabilities
- ◆ Number of Known Vulnerability Instances



# So... I googled “better”... and it escalated quickly!

Searches related to what does better mean?

what does better **half mean**

what does **it mean to be australian**

what does **it mean when your poop is green**

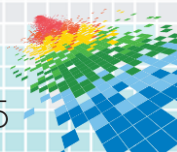
what does **it mean when your eye twitches**

what does **it mean to be part of the commonwealth**

what does **it mean to be human**

**protein in urine** what does **it mean**

**Imfao** what does **it mean**



# The “hint” is in what is important for your business...



MyPost  
Digital  
Mailbox



World-class  
parcel  
network



24/7  
Parcel  
lockers



Australia's  
Largest  
Retail  
Network



Premium  
Business  
Road and  
Air Delivery



Identity  
trusted  
services



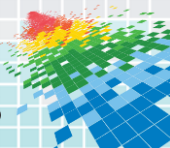
24/7  
Self-service  
access



Mobile  
Applications



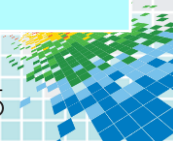
Payment  
Services



# Example business scorecard

(NB Not real Australia Post data)

	Measure	Last FY	Target	This FY
<b>Financial</b>	Profit before tax	\$823M	\$950M	
<b>Strategy</b>	New product take up for existing customer	6.3%	10%	
<b>BU 1</b>	Revenue growth	7.2%	8%	
<b>BU 2</b>	Average revenue per customer	8.6	10	
<b>BU 3</b>	Revenue from new product initiatives	\$42.6	\$80M	
<b>Product</b>	Product X profitability	15%	18%	
<b>Customer</b>	Net promoter score	+8	+10	
<b>Reputation</b>	Country top 10	6	4	
<b>Employees</b>	Staff engagement	65.8	68	



# Example Security Scorecard

(NB Not real Australia Post data)

	Measure	Last FY	Target	This FY
<b>Customer Satisfaction</b>	Customer system downtime caused by IS incident (hours)	15	0	
<b>Reputation</b>	No of IS incidents reported in media	1	0	
<b>Employees</b>	Security staff engagement	74.1%	78%	
<b>Financial</b>	Information security budget as % of IT budget <i>(Industry average 5%)</i>	3.5%	4.1%	
<b>Strategy</b>	Information security maturity (0-4) <i>(industry average 2.2)</i>	1.8	2.5	
<b>BU 1</b>	No of unmanaged critical or high risk products	5	0	
<b>Brand Protection</b>	Avg time to take down fraudulent websites	52 hrs	36 hrs	



# Is this a useful metric?

✓ Shows the trend



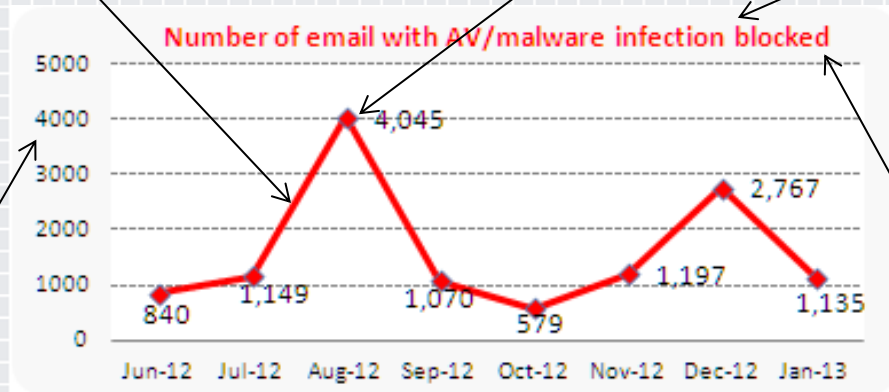
Should we be worried about this peak?



Simple to understand



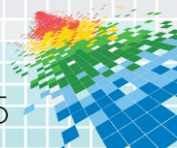
Are these numbers high or low? Is this normal?



If it is blocked everything must be ok?



What decision do you want from me?



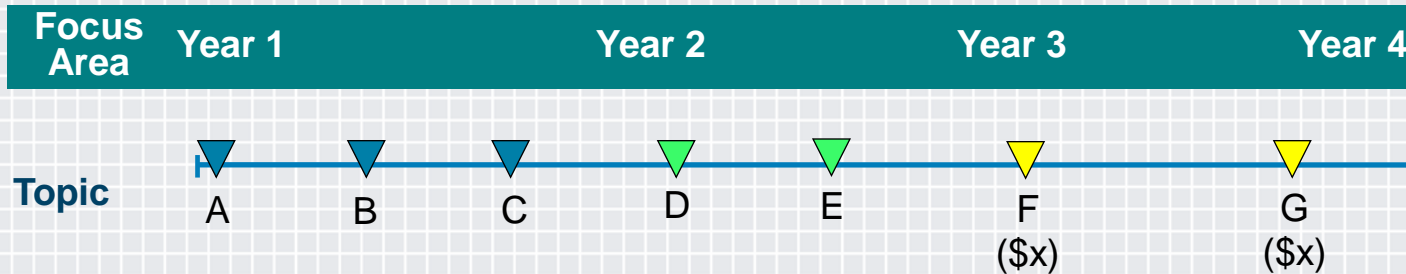
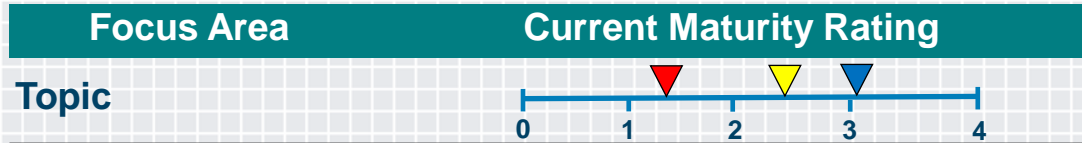
# At AP we have taken a different approach. We use a maturity metric model.

Maturity rating is a measure of effectiveness of implemented controls across  
People, Process & Technology

1 – Compliance Minimum  
3 - Industry Best Practice

2 - Industry Baseline  
4 - Best in Class

▼ Year 1  
▼ Current  
▼ Target

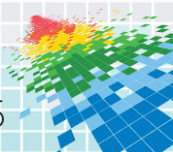


To enable our business strategy please approve F and G

▼ Complete

▼ In Budget / Plan

▼ To be funded / scheduled





# Just another boring presentation? Or something you'll use?

- ◆ When you get back to the office:
  - ◆ Throw away your old metrics that aren't leading to decisions
  - ◆ Get your business scorecard
  - ◆ Work out how security contributes to that scorecard
  - ◆ Create your own contribution in business language
  - ◆ Repeat...and get better...
  
- ◆ Over time challenge your teams:
  - ◆ Can we report on maturity against business need and strategy?
  - ◆ What “decisions” have we accepted?
  - ◆ What “decisions” does our organisation need to make?

