

Metricon 2008

Metrics for Risk Management versus Metrics for Security Attribution

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Compare: Risk vs Security

Measures:

Compliance

Reflects:

Organizational
Structure

Favors:

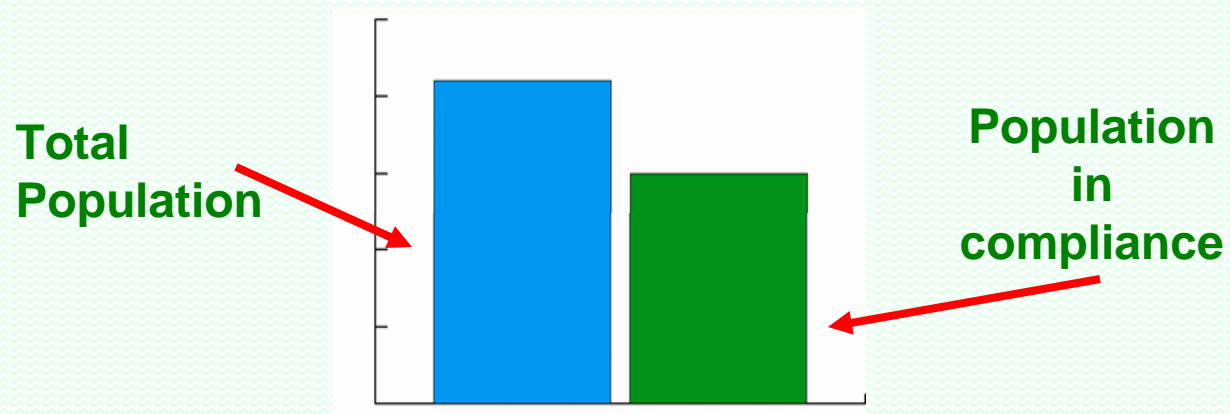
Automation

Demonstrates:

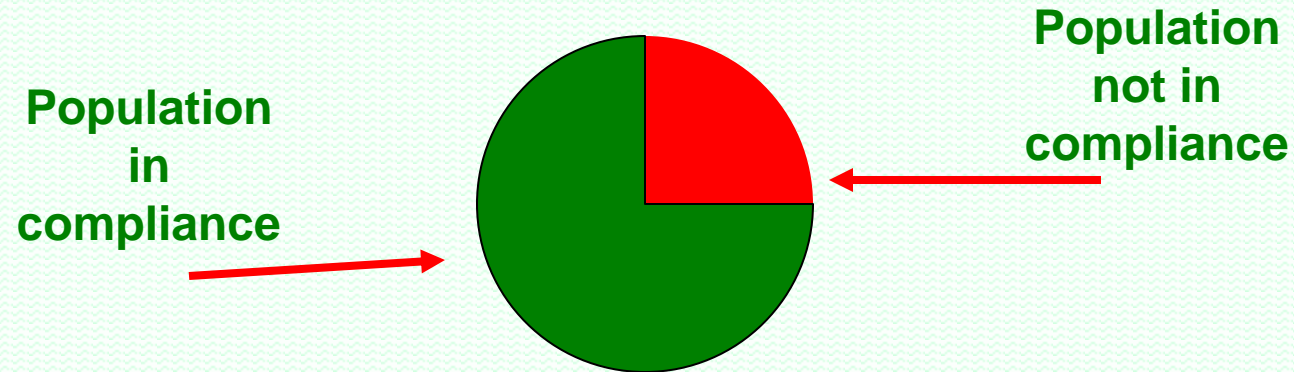
Trends



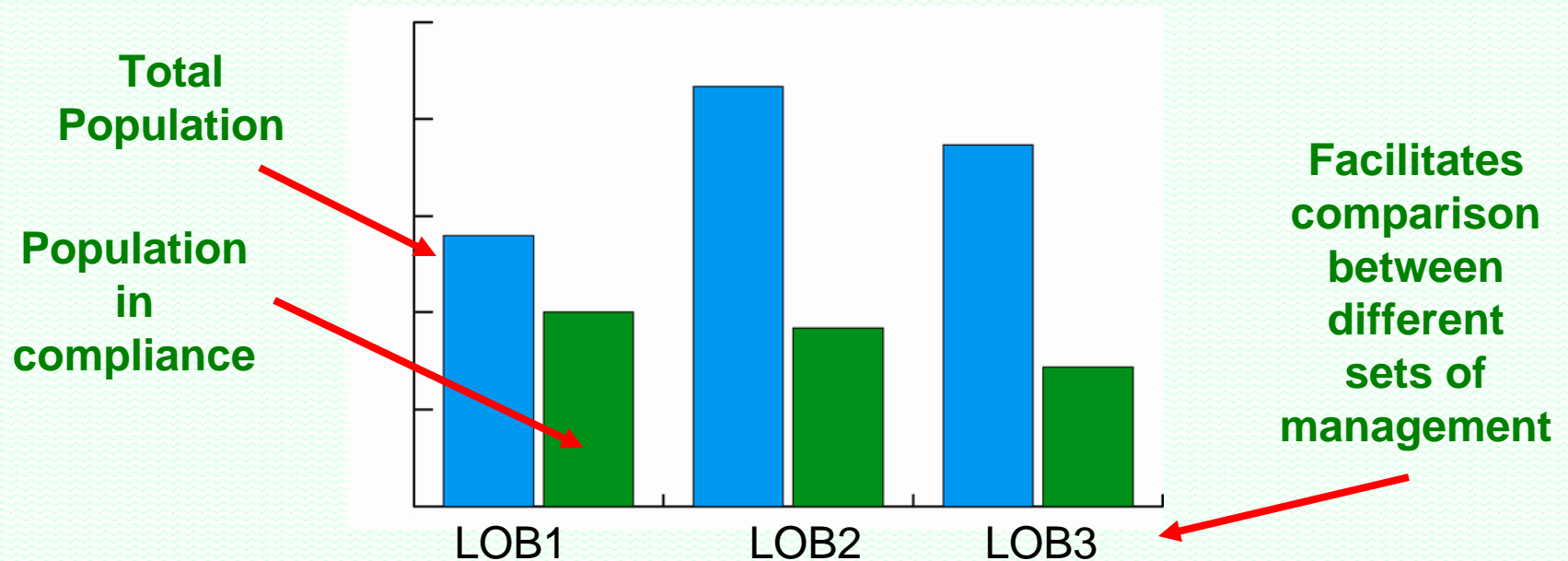
Compare: Compliance



Often based on self-assessment reporting.

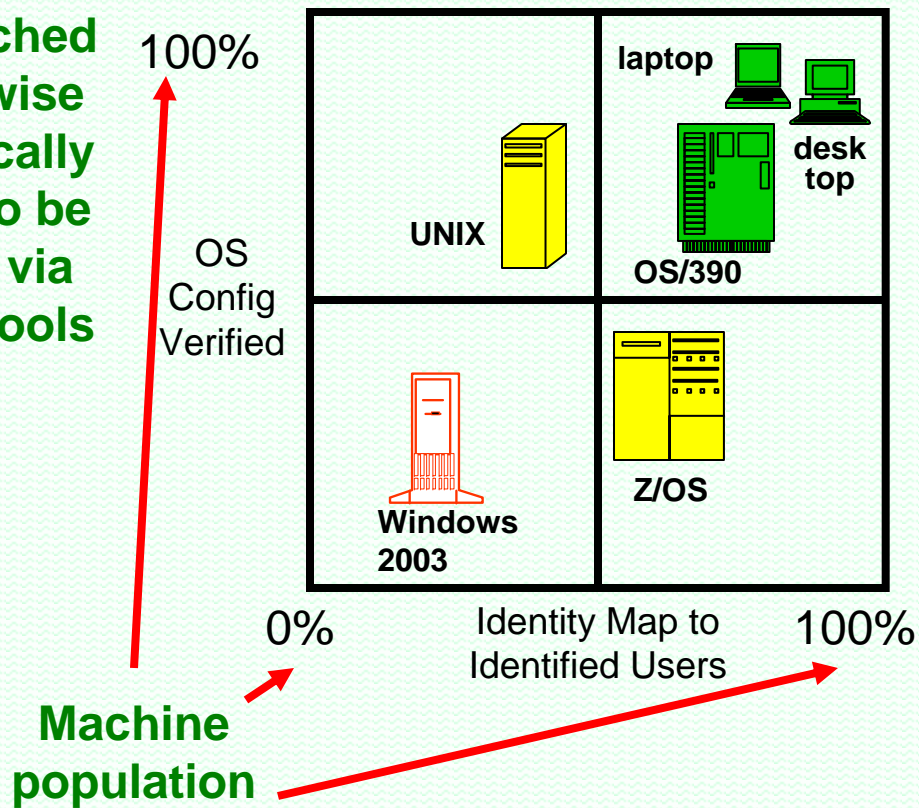


Compare: Organization



Compare: Automation

Total patched or otherwise automatically verified to be secured via specific tools

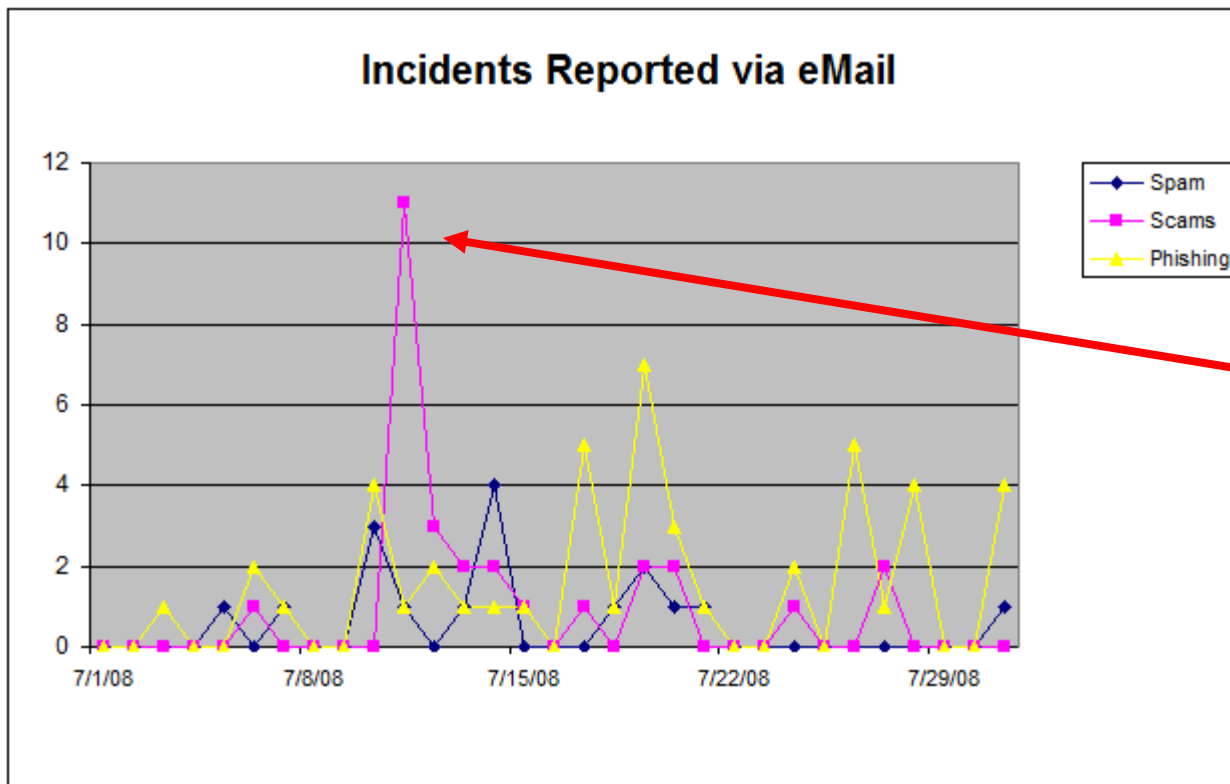


Facilitates comparison between different types of technology, often used for audit remediation.



Compare: Trends

Often used to depict activity beyond control of management



Facilitates demonstration of staff activity requirements

Note: blank lines indicate no incidents were reported, mostly weekends.



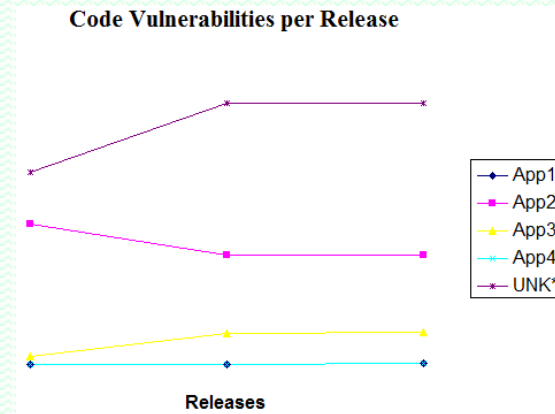
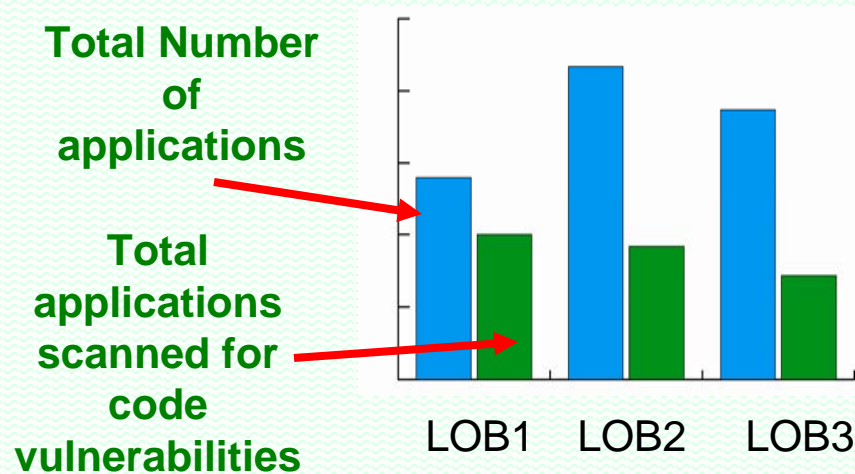
Contrast: Risk vs Security

	Risk	vs	Security
Focus is:	Coverage		Quality
Based On:	Policy		Process
Relies On:	Explanations		Accountability
Reflects:	Assessment		Implementation



Contrast: Focus

Risk Coverage vs Security Quality



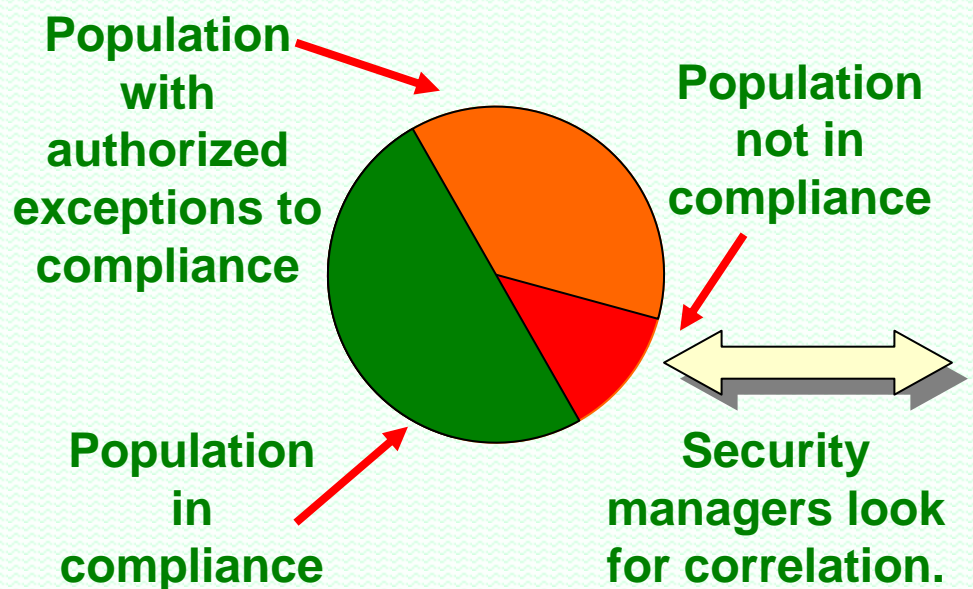
Focus on quality of security results in this type of report

Confidence in totals comes with aggregation rather than collection.

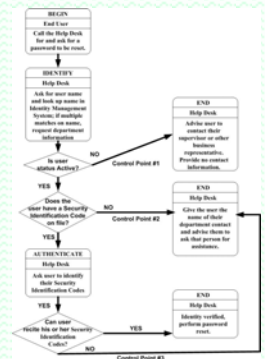


Contrast: Basis

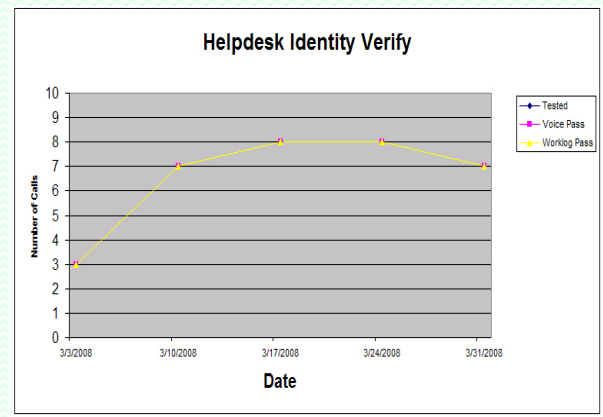
Risk Policy vs Security Process



Security Process



Control points from process directly correlated to measured activity.



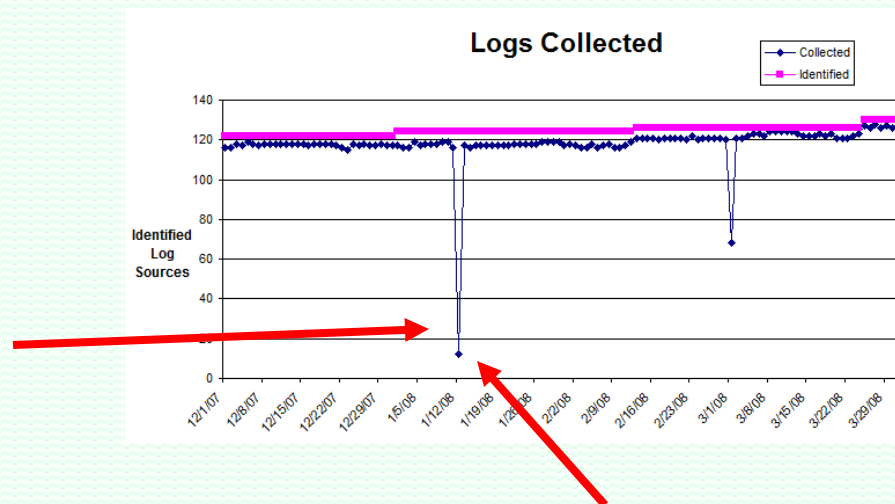
Contrast: Reliance

Risk

Security

Explanations vs Accountability

Risk manager
hears
proximate
cause, e.g.:
“server down”



Where there is a
process in place
designed to
maintain the
metrics, there
should be
accountability
for poor results.

Security manager should ask:
“What was root cause?”

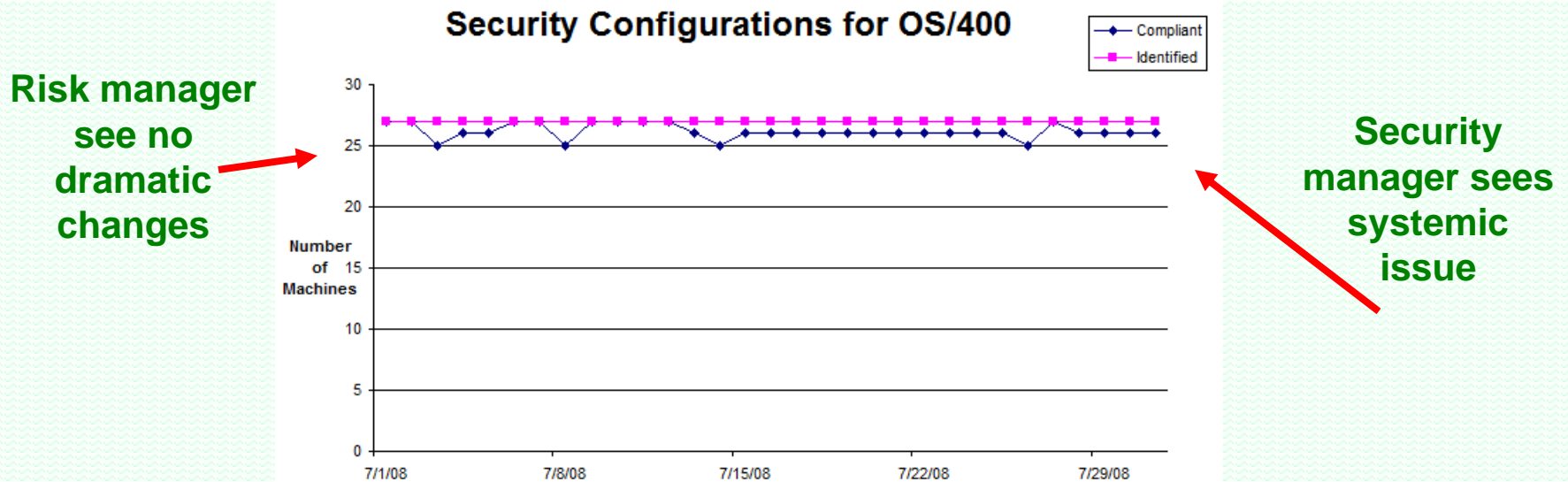


Contrast: Reflects

Risk

Security

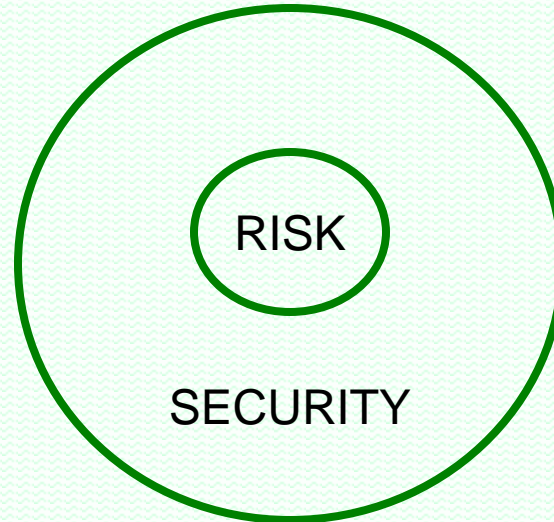
Assessment vs Implementation



**Detail behind OS Comparison from
“Automation” example**



Prevalent versus Necessary Metrics



What makes security an attribute?

How to find it?

What objectives are met using only risk metrics?

Should overlap be pursued or avoided?

Questions? Discussion...

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