

1 2 3 4 5

Case Study: Five ways to energize your information security program

By Jim Reiner, ISO, HIPAA Security Manager

reinerj@saccounty.net

A top security program goes unnoticed

But...

A bad security program, on the other hand, has the power to ruin all your efforts



➤ Projection: 2,340,000 by 2010.

≥28% are under age 18.

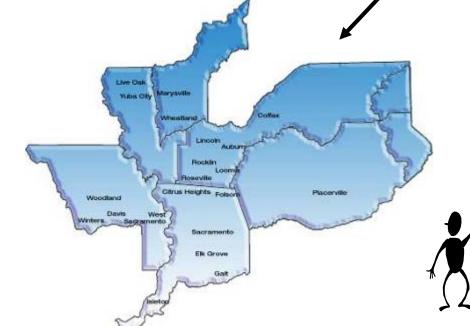
➤ Patient visits to County clinics have increased 15% a year each of the last three years.

About us

A diverse population with a growing need for health care

Sacramento County Government

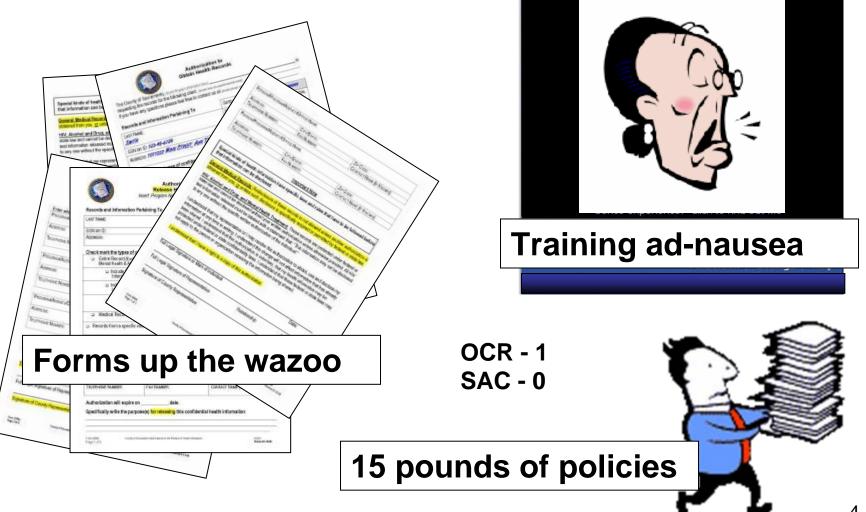
- \$3.5 Billion annual budget
- 13,500 employees
- 2,500 covered by HIPAA
- 67 work sites covered
- 250,000+ patient visits / year



We 'rushed' to compliance with

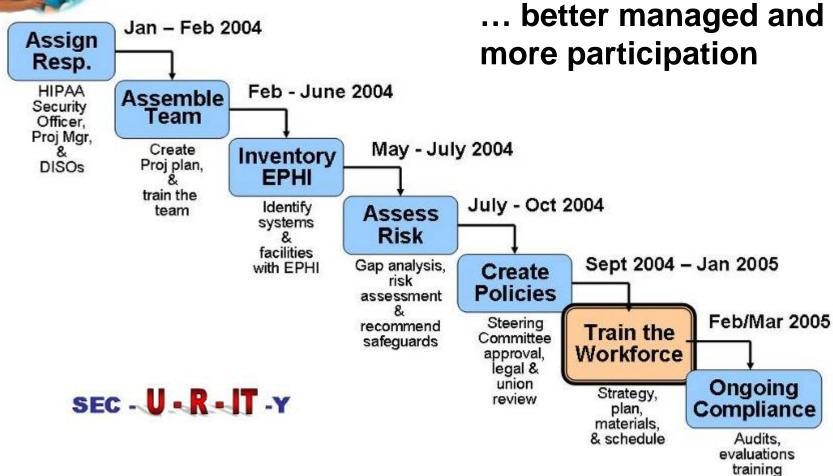
8 hours of talking head video training

the Privacy Rule





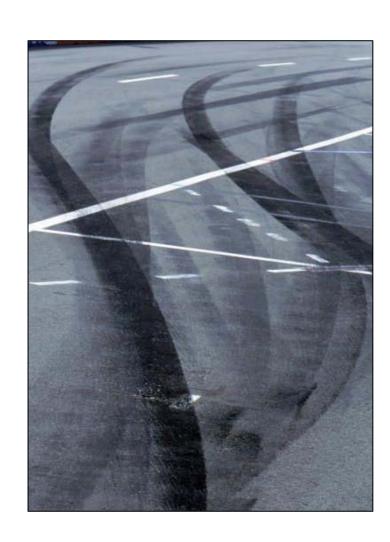
HIPAA Security Rule Project



And we moved into ongoing audits, continual training, & incident mgt ...



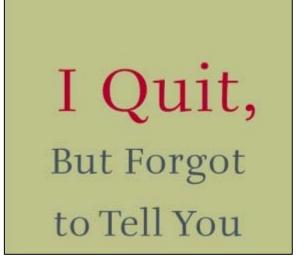
... but, then something happened



I looked around and saw how things had changed...



Lost interest, priority, support; complacent



Staff turnover



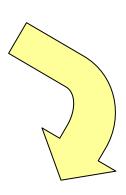
Questioned why we worked on what we did

... and I saw the adversary within



Our problem: surprising, simple, but not unusual

I needed to (re)create a business case for security.



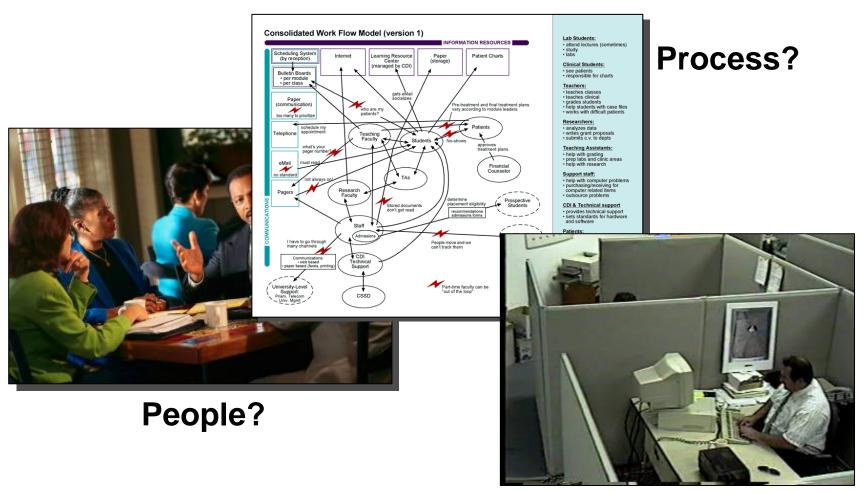
Plan

Deliver

Measure

Communicate

What do industry analysts say is the hottest security challenge?



Technology?

Conclusion: There is no quick fix

Areas I need to work on:

- Governance
- Risk Management
- Metrics

Things I need to do:

- Enforce existing policies
- Share best practices



My Big A-HA!

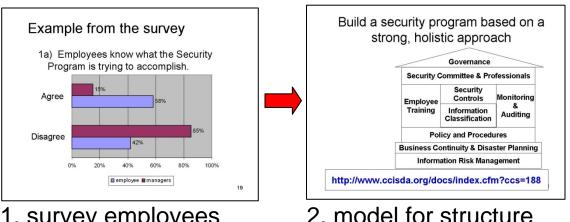
 This is similar to business strategic planning.

 A similar process could be used to plan, execute, and communicate



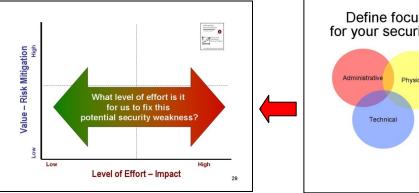
http://www.saccounty.net/itpb/it-plan/index.html.

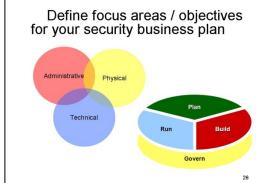
Armed with this realization, I took action:



1. survey employees

5. a method to manage





4. define focus areas



3. self program audit



Why on earth haven't more ISOs who struggle with their security been told this?



A Guide for using the 5 booklets in the series





A Guide to Using the Information Security Series

Using the five booklets to Clarify our Focus,

Information Security Series

I of 5 booklets in the series





Information Security Series

2 of 5 booklets in the series





Anchor Your Information Security Program

www.ocit.saccounty.net/InformationSecurity/index.htm

Information Security Series

3 of 5 booklets in the series





Build Your Information Security Program

Tips to help you start and sustain your program based on 10 humorous moments from HIPAA security training

Information Security Series

4 of 5 booklets in the series





Define focus areas and short-term objectives

Information Security Series

5 of 5 booklets in the series





Manage Your Information Security Program

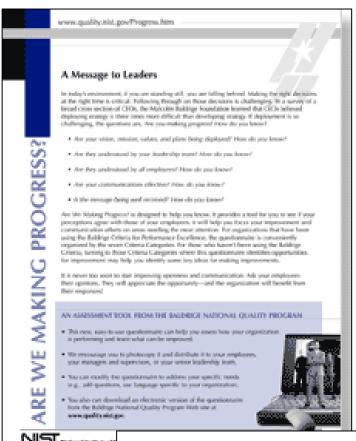
Use a method to organize, prioritize, and evaluate

1. Evaluate from the perspective of managers and employees

- Leadership
- Planning
- Customer focus
- Measurement
- Human resource focus
- Process management
- Business results



Get 'actionable' feedback



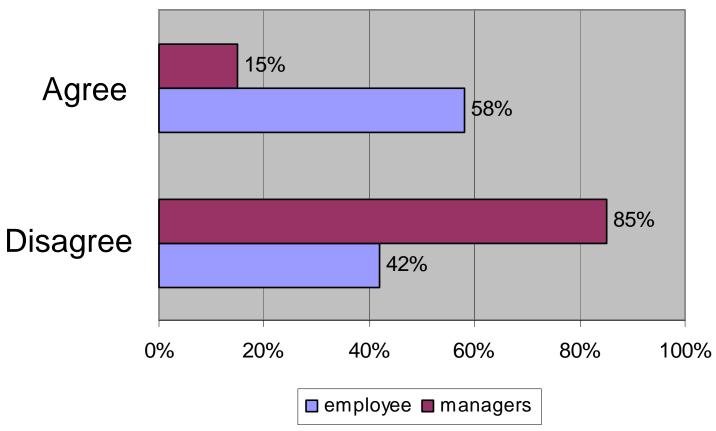
I adapted a best practices survey for our security program

NST.....

http://baldrige.nist.gov/Progress.htm

Example from the survey

1a) Employees know what the Security Program is trying to accomplish.



2. I needed a structured program to fit the puzzle pieces all together



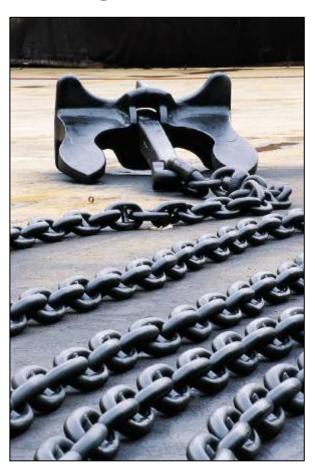
Build a security program based on a strong, holistic approach



http://www.ccisda.org/docs/index.cfm?ccs=188

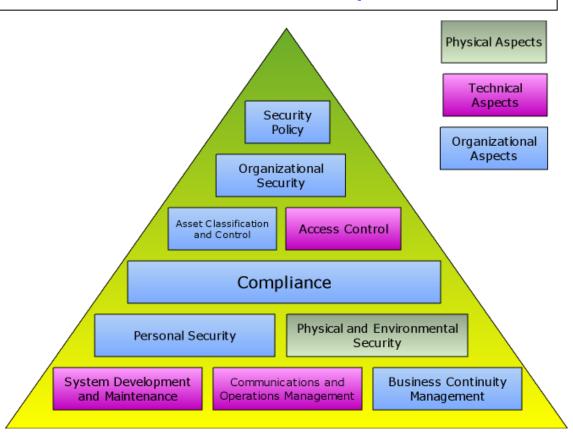
3. I took the best next step to anchor my security program

Conduct a self-audit assessment determine gap with generally accepted best practice



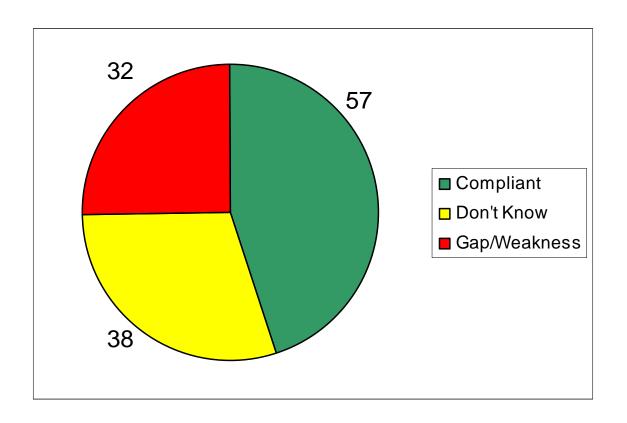
We used the ISO 17799 Checklist

http://www.sans.org/score/checklists/ ISO_17799_checklist.pdf

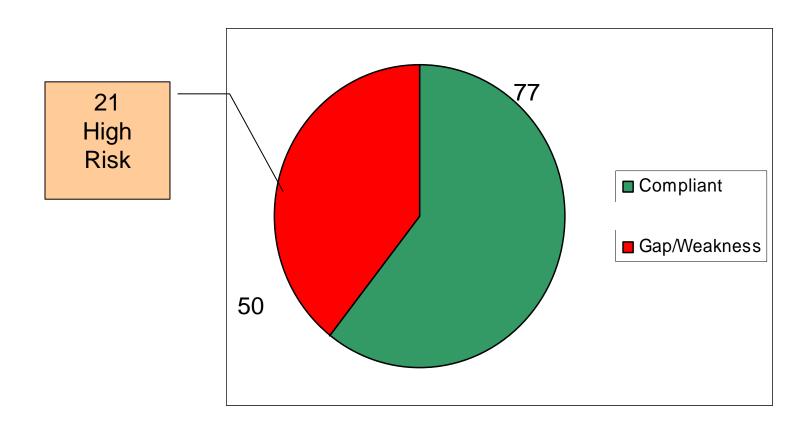


ISO 17799 Audit Initial Results

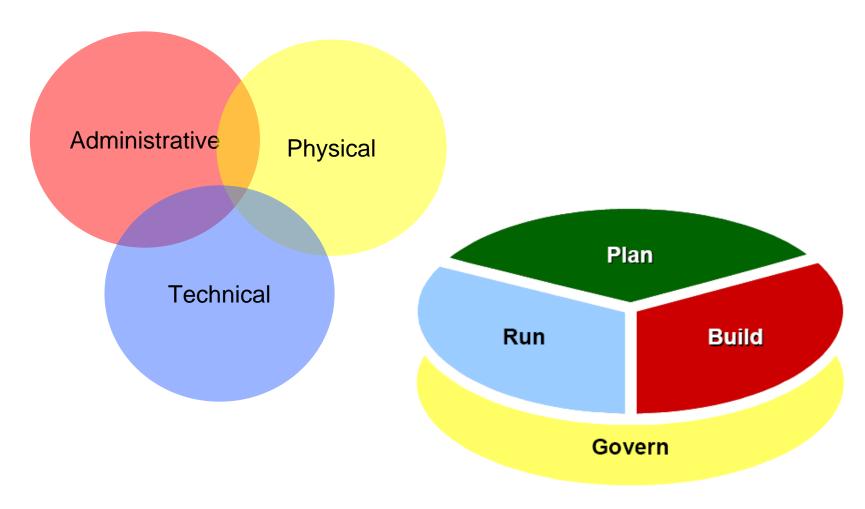
10 audit topics – 127 individual items



Audit Final Results

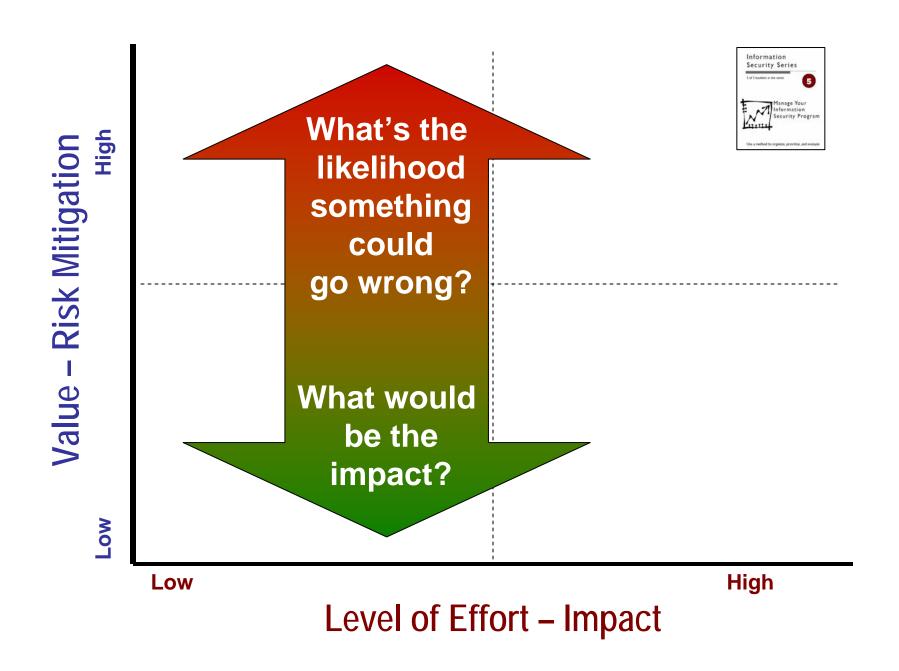


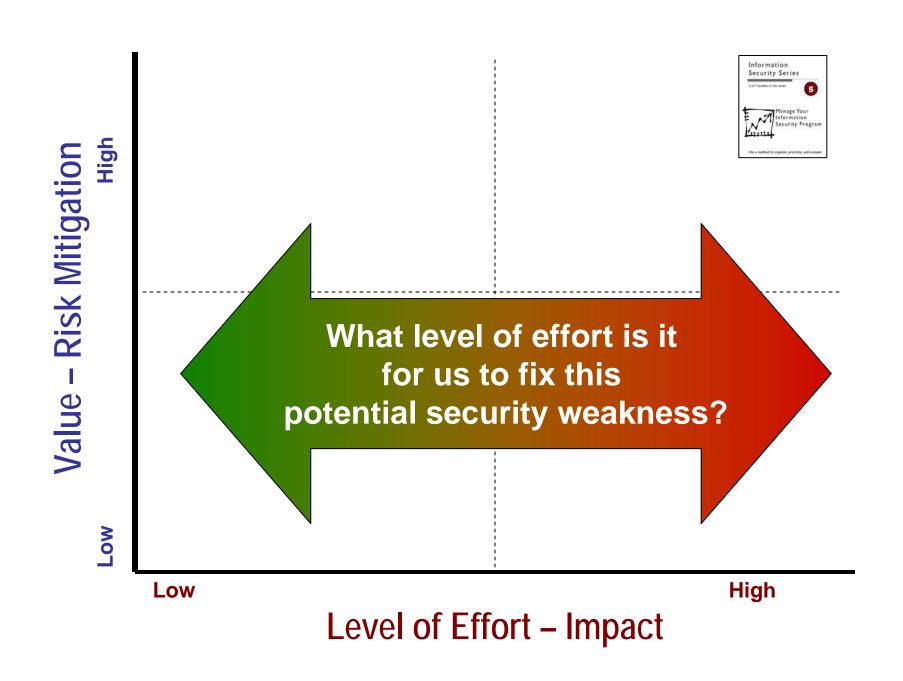
4. Define focus areas / objectives for your security business plan

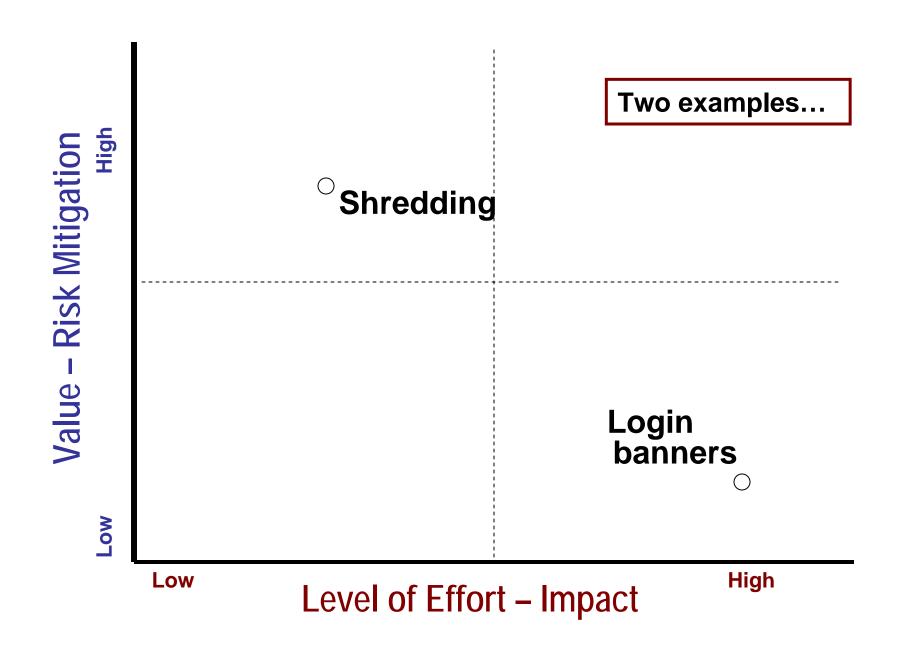


5. Use a method to organize, prioritize, and evaluate the program

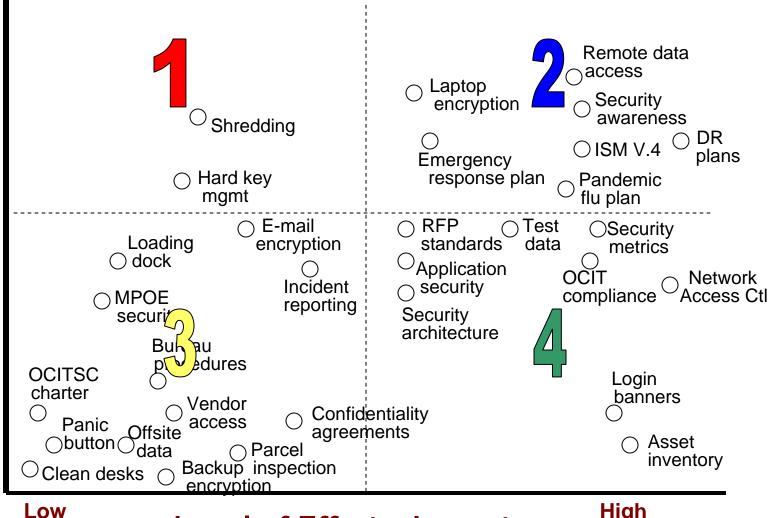
	OCIT Security		What the Initiative WIII Produce				OCIT Contact		ot	Status
		Plan Initiative		(What Done Looks Like)						
	OCIT Security		What the Initiative WIII Produce OCIT Co			intact	Status	5		
	Plan Initiative	(What Done Looks Like)								
1. Managementooncurrence on: OCIT Managers determ			he that their staff comply with J. Reiner					- 1		
OCIT Security	What the Initiative	Will Produce	OCIT Contact	Stat	us			- 1		
Plan Initiative	(What Done Looks Like)							- 1		
1. Managemento on currence on :	OCIT Managers determine thatt	Off Managers determine that their staff comply with						- 1	г	Work has started on a
a) Alistaniushig problem and change	tiese policies, and if not, agree to modify their bureaus' procedures to implement tiese security controls as much							- 1		contract for document shredding for OC IT.
management b) Stopsharing logons where possible	as is technically teasible.	ectrity controls as mitch								wheating for oom.
c) Put in place procedures to manage and	,						Work has star			
control privilege di accounts							contract for do			
 d) Investigate and recommend where needed segregation of duties 										
Put is place policy, contract, and process	A contract with a company that w	villipick up ands hred	F. Bemard	Work has st	tarted on a			- 1		
for skredding sensitive documents	paper documents.	contract for document					- 1	Н		
Publish security conner article about the value of clean desks	The availability of bins in OCIT to placing confidential or sensitive (stredding 1	orocit.					
value of clear desis	need to be shredded.	saper documents diac						- 1		
	Communications to OCIT person							-	ŀ	
	Information on paper that should responsibilities in this regard.	be stredded, and beir						- 1	Ľ.	
	An OCIT security policy on stora							- 1		
	sensitive or confidential docume					eman		-	Ŀ	
 Develop policy about the use and disposal of application test data 	An OCIT security policy and/or a implemented in application supp	procedure is ortunits to ensure data	R. Zakarla					- 1	Ľ.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	used for testing that is copied fro							- 1		
	handled secure ty.					eman		_		
5. Implement confidentiality agreements	An OCIT security policy and/or a signed by all OCIT employees to	document to be read and a	S. Berry-Freeman			C III.C.		- 1		
	responsibilities regarding mainta	ining the confidentiality of								
	ble l∎form ablo∎ bleγm aγcom e l									
6. Define a process for hard keγ management	A procedure form a raging the hall OCIT facilities and rooms that en		S. Berry-Freeman							
	accounted for.	a tree sin note a ne you are								
7. Create and provide security awareness	Creation of the security informat		F. Bernard							
training	security policies and procedures known by OCIT staff.	that is required to be								
	OCIT Executive Team approval	of the material to be used								
	In security aware reas training.	or are material to be 1000								
	A process that is developed inter				Ī	_				27
	will effectively comm∎nicate OCI	r a security policies and								







Ratings of Security Plan Initiatives

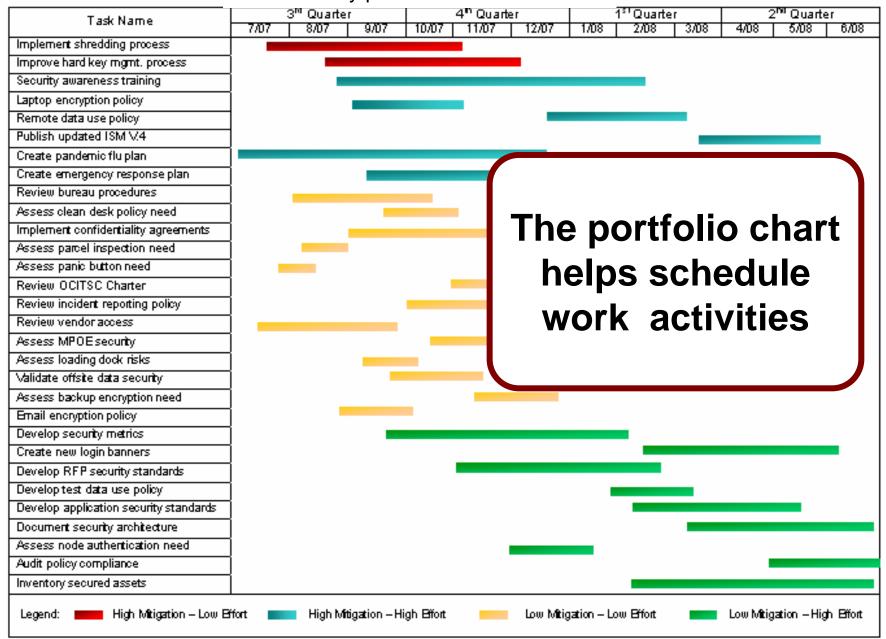


№

Level of Effort – Impact

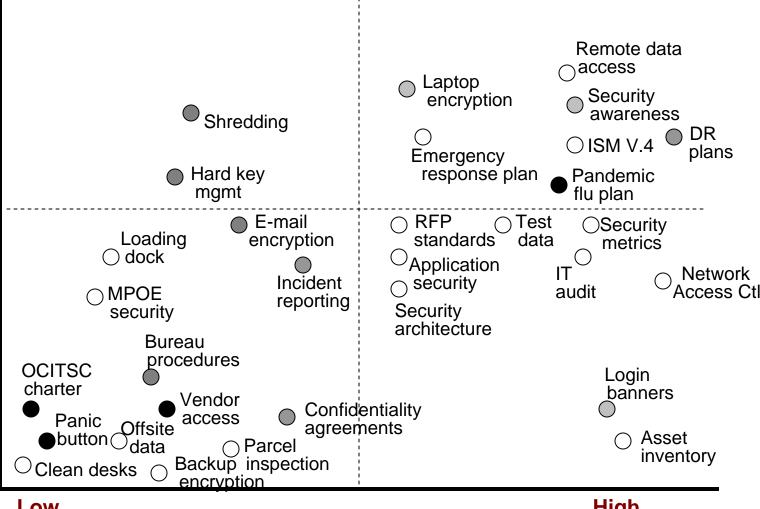
High

2007 security plan draft schedule



- Risk Mitigation Value

Managing the 2007 Security Plan

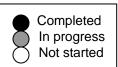


Low

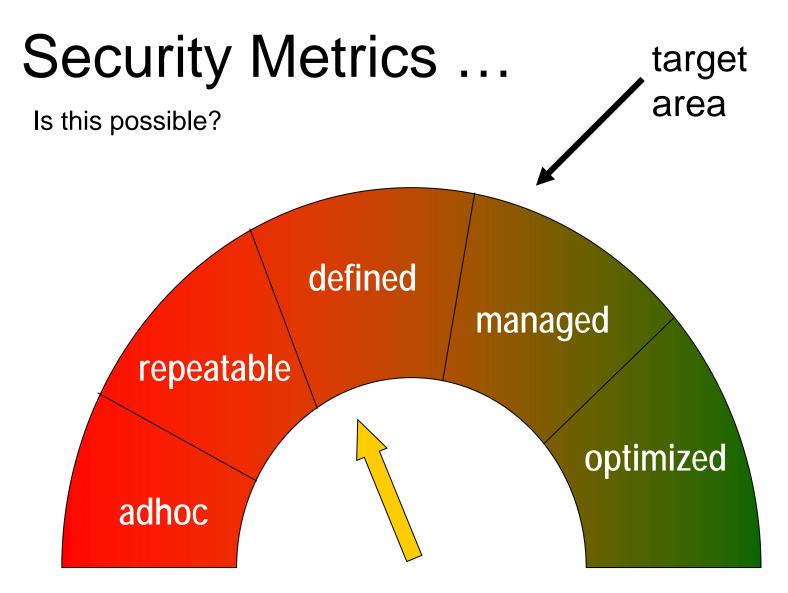
№

Level of Effort – Impact

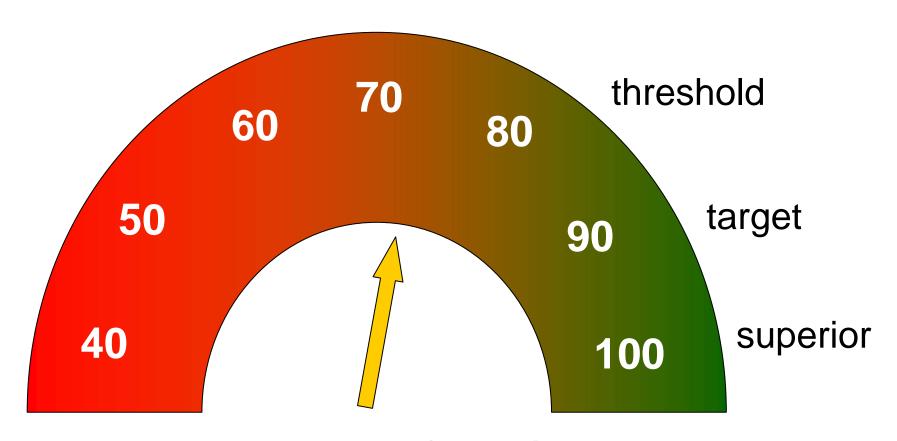
High



What kind of questions does this help you answer? How do I know what I should work on? - Risk Mitigation awareness Shredding What should I work on first? Last? DR OISM V.4 plans F-mail \cap RFP Which ones can be done together? secunty ıncıaenı Access Ctl compliance \ What kind of results am I getting? Value **OCITSC** charter Danne Vendor Confidentiality access Panic agreements button Odata Asset Parcel **0** inventory Backup inspection Clean desks encryption High Low Level of Effort – Impact Completed In progress Not started



Information Security Risk Posture



Information Security Confidence Level

Making IT Work



- Pre compliance date:
 - involvement and action; energy and attention was high
- Post-compliance date:
 - loss of interest and attention; we got tired

 Re-focus and energize; use tools to plan, deliver, measure, and communicate

Contact Information

- Jim Reiner, Information Security
 Officer, HIPAA Security Manager
- reinerj@saccounty.net
- County of Sacramento <u>www.saccounty.net</u>
- 916-874-6788