

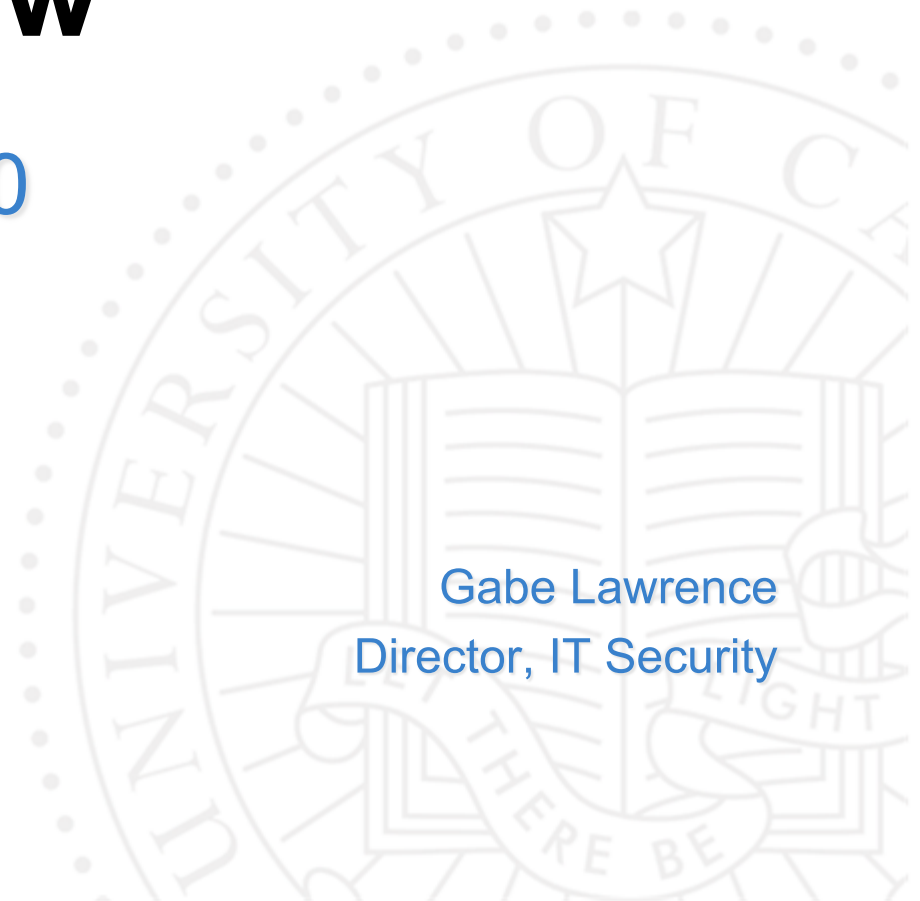
Security Review

July 2009 – March 2010

Administrative
Computing &
Telecommunications

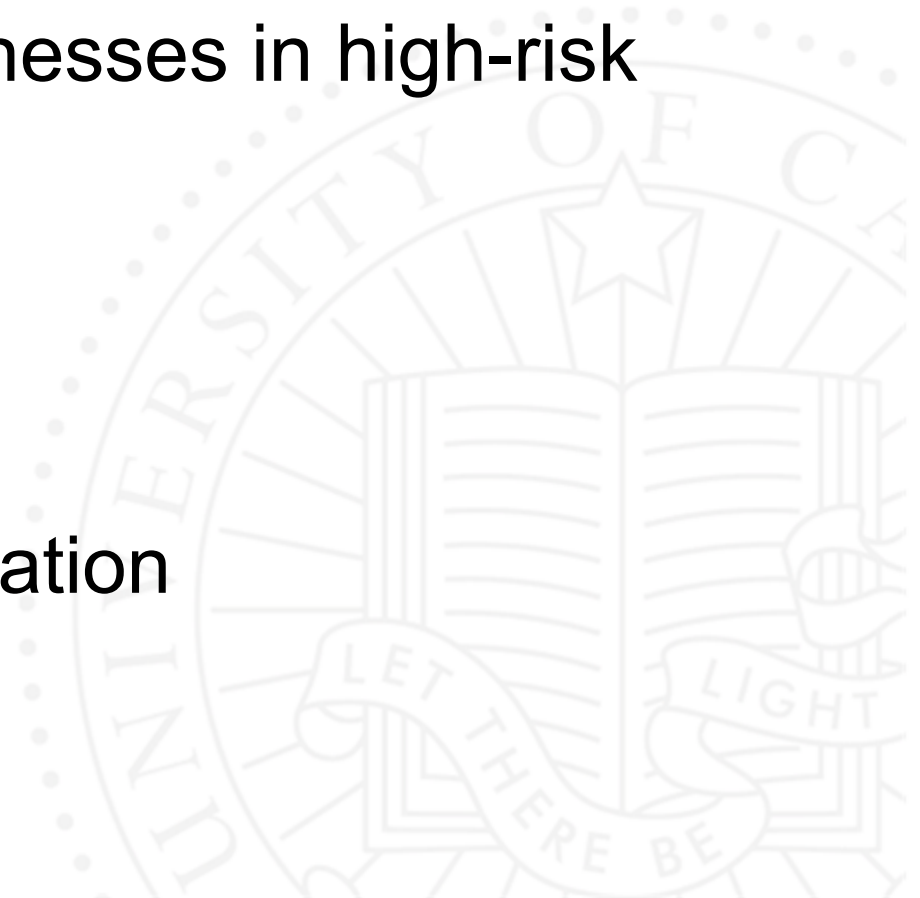


Gabe Lawrence
Director, IT Security

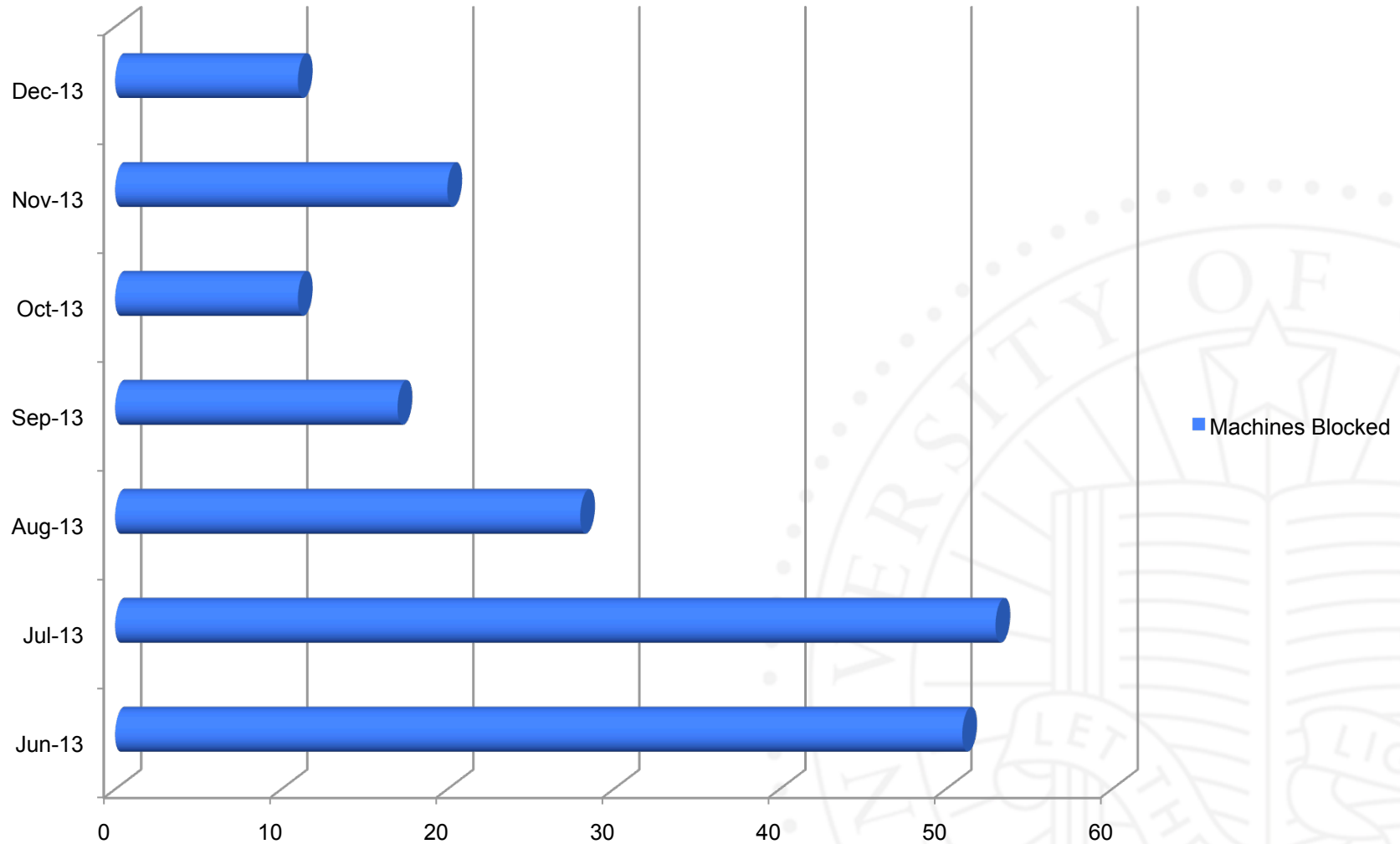


Information Security and Privacy Council

- ▶ Advisory to the UCSD Chief Ethics and Compliance Officer
- ▶ Address security weaknesses in high-risk circumstances
 - ▶ Policy
 - ▶ Best Practices
 - ▶ Common Solutions
- ▶ Campuswide representation



Blocked Machines/Month

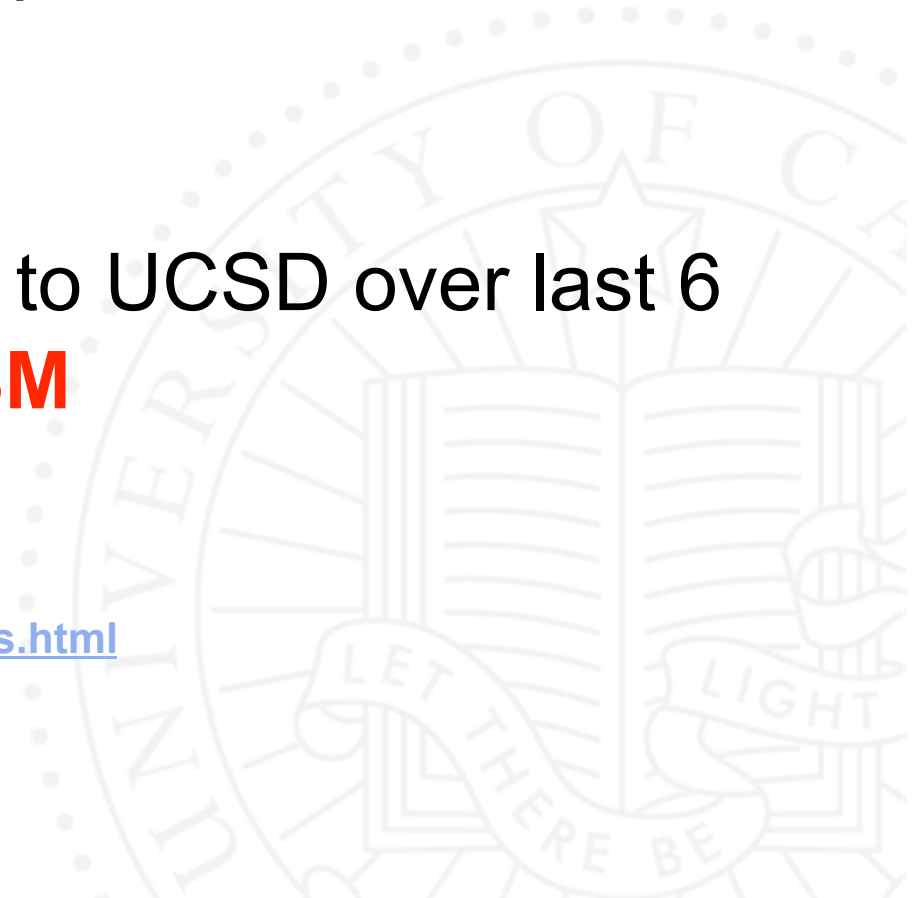


Costs

- › Notified slightly less than 40,000
- › Direct and indirect cost per notification roughly \$90-\$195
- › Direct and Indirect cost to UCSD over last 6 months **~\$3.6M to \$7.8M**

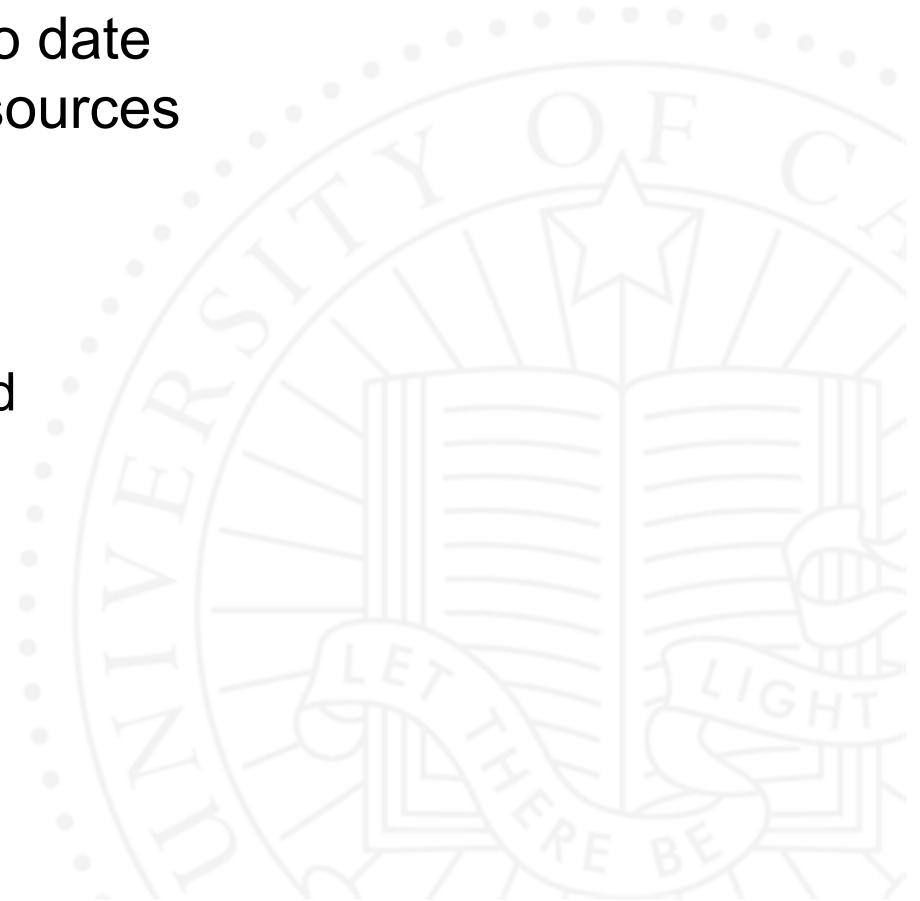
<http://www.tech-404.com/calculator.html>

http://www.idtheftcenter.org/workplace_facts.html



Key Risk Areas

- ▶ Lack of IT Support Staff
 - ▶ Incomplete application of standards
 - ▶ Lack of monitoring
 - ▶ Failure to keep software up to date
 - ▶ Failure to utilize available resources
- ▶ Shift of attack vector
 - ▶ <2008
 - ▶ Network attack vector
 - ▶ Vulnerability scanning worked
 - ▶ >2008
 - ▶ Web applications
 - ▶ Web browsers
 - ▶ Scanning doesn't work



Security Short/Long Term Goals

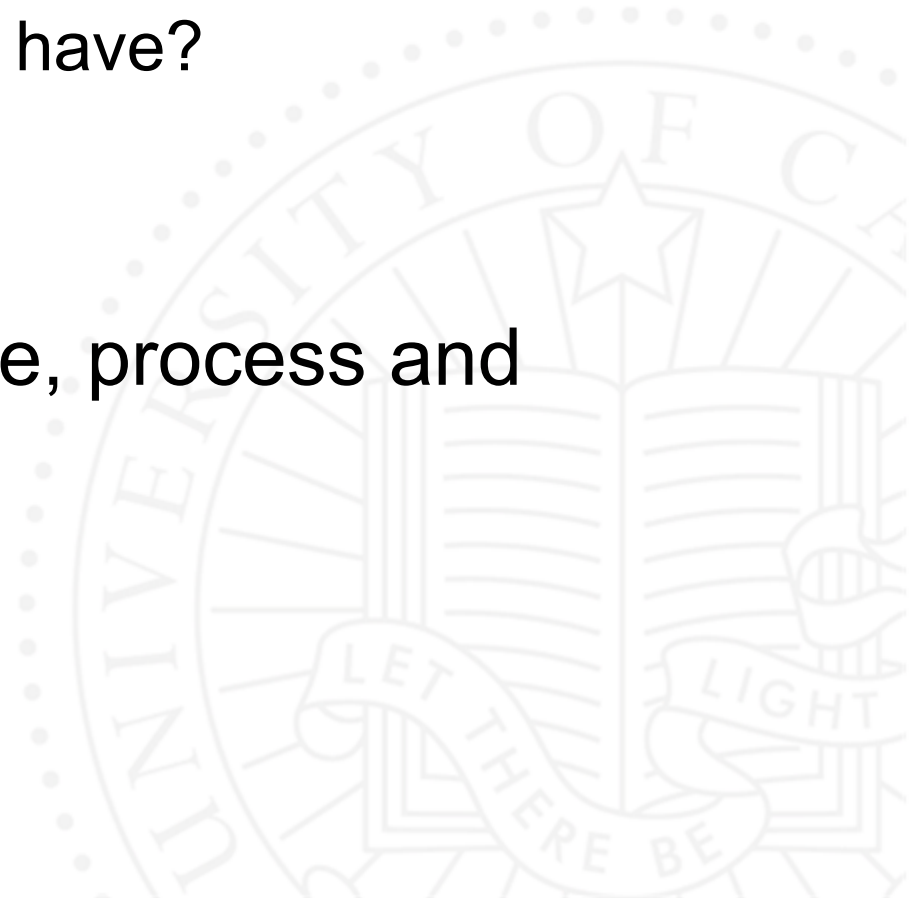
- › Organizational structure – see ISPS Draft Charter
- › Guidance
 - › Setting priorities on encryption, network intrusion, data loss prevention, etc..
 - › Report back to CARE committee on activities on a semi-annual basis (once in writing and once face-to-face)
- › Education and training
 - › Web application development security training
 - › Attend DSA training and Sysadmin training on a regular basis
 - › Use education to help own departments
- › Monitoring and auditing
 - › Install Host based Intrusion software (campus licensed)
 - › Web application attacks
- › Optimal use of technical solutions
 - › Eliminate reliance on redundant IT infrastructure (Campus Mail and Active Directory)
 - › Complete network partitioning and firewalling
 - › Install Campus licensed HIPS
 - › Enforce Encryption

 = Short Term

What you should do

- ▶ Risk Analysis
 - ▶ What data do you have?
 - ▶ What protections do you have?
 - ▶ Is it enough?

- ▶ Address risk with people, process and technology



Resources

- › security.ucsd.edu
 - › IT Security for UCSD Business Managers

Q & A

