

Agenda

- Initial Thoughts
- The Premise
- So Where Do You Start?
- Step 6: [Business] Impact Analysis
- Potential Negative Impact
- That Detective, is the right question
- You Make it Sound So Easy!
- Technology Overkill?
- Summary

Initial Thoughts

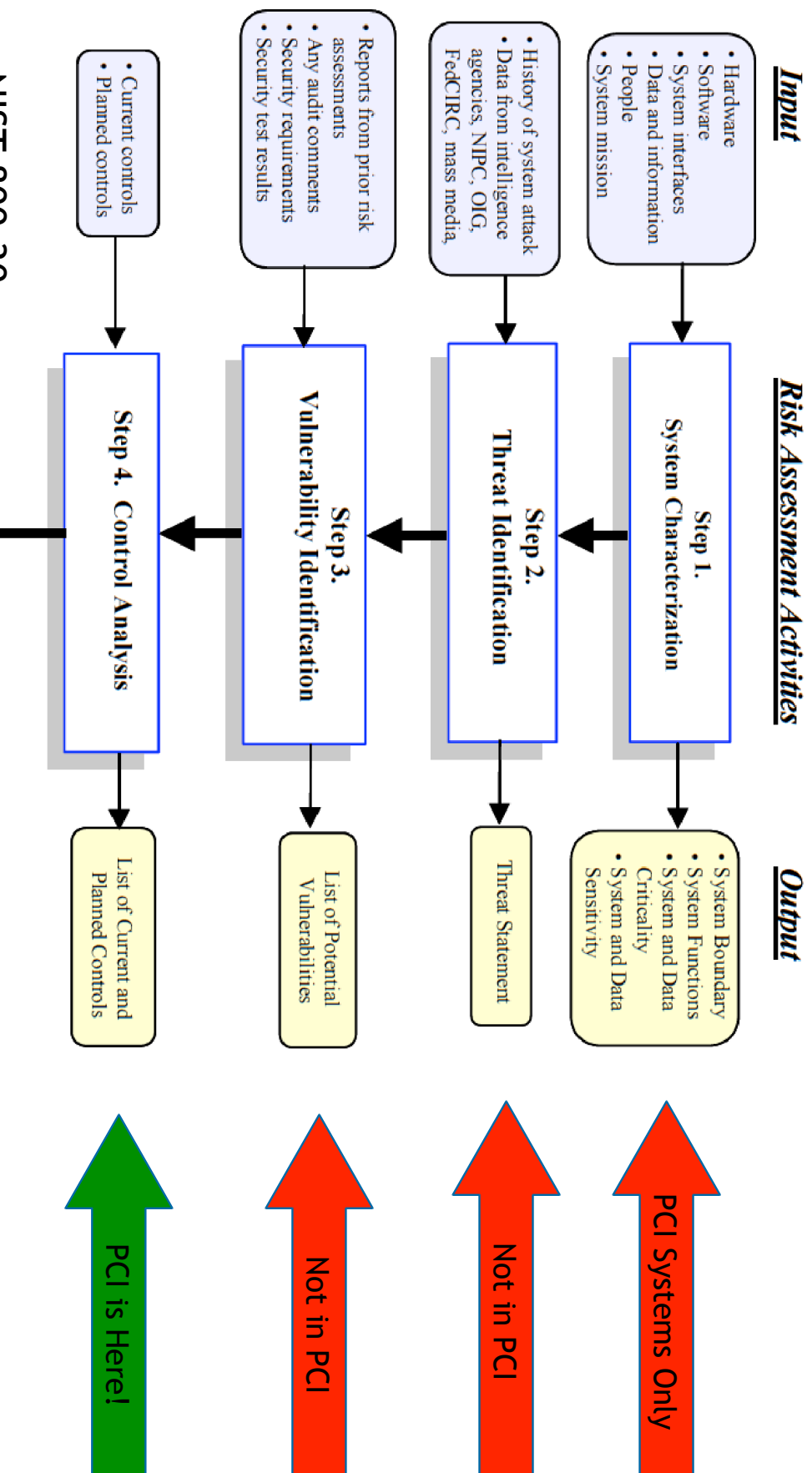
- I am a big fan of technology as long as it's part of a known business need, and not a reaction to a perceived one
- Technology purchased before a risk assessment has a good chance of becoming an expensive paper-weight
- Regulations like PCI, and whatever come after it, are 'forcing' organisations into bad purchase decisions
- Even when a technological need makes sense, it is rarely integrated correctly, and may even reduce your current security posture
- ISO and COBIT have been out for a long time, yet are very rarely followed correctly

The Premise

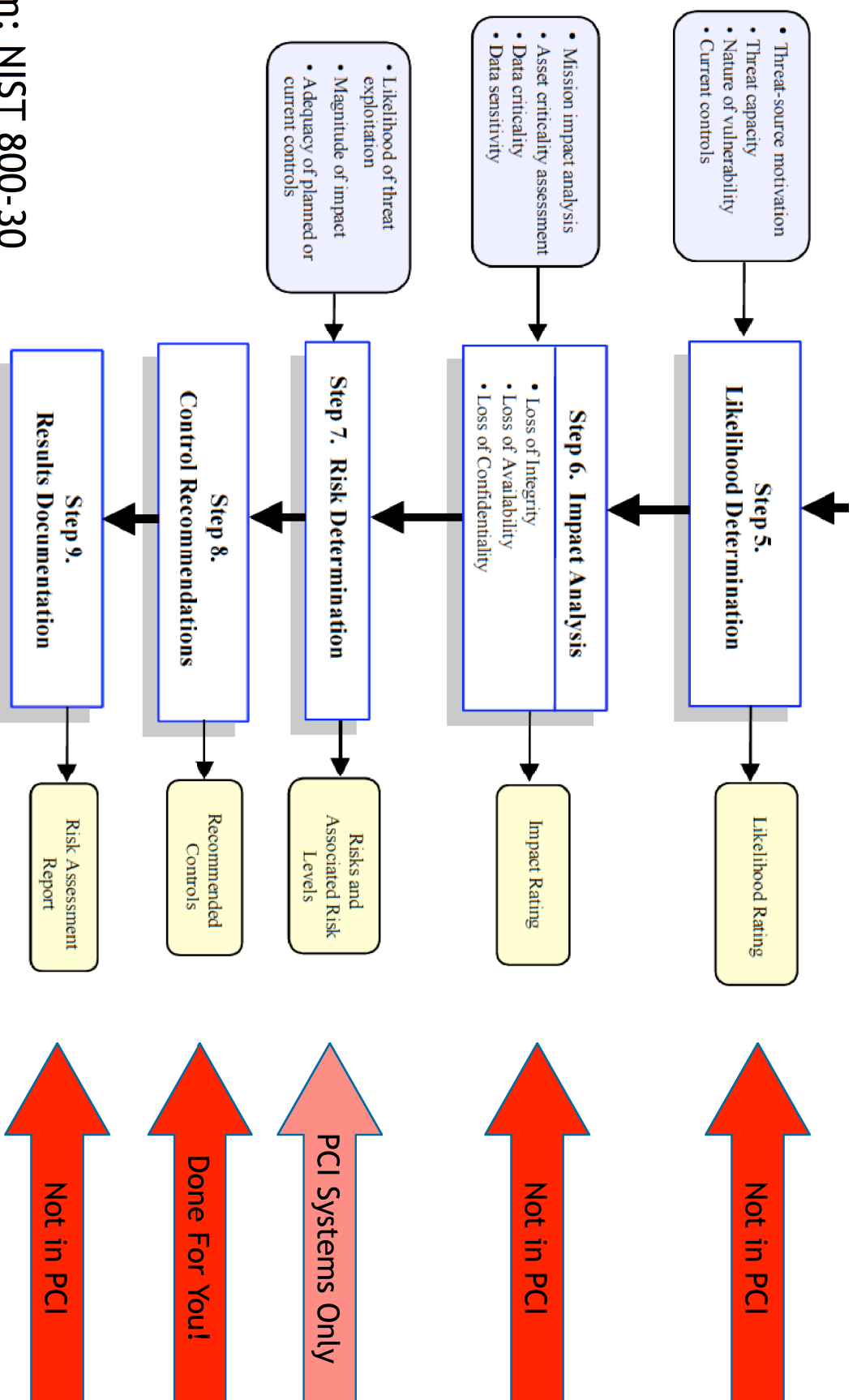
I'm not picking on PCI, but;

- It's the first compliance regime to actually draw a line in the sand with regard controls
- The risk assessment is built in, and I'm fairly sure your business was not consulted
- No other regulation in history has caused such a demand for technology, and not provided the guidance from which to make the right decisions
- It stops where you need to be most concerned
...**STAYING** in business (the real reason for technology)

So Where Do You Start? Part 1



So Where Do You Start? Part 2



From: NIST 800-30

Step 6: [Business] Impact Analysis

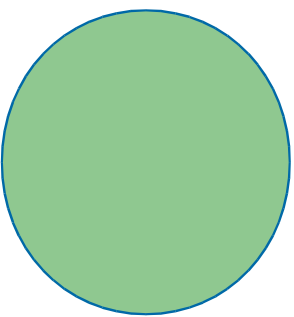
Question: Would you spend £1,000,000 to protect £1,000 worth of data?

Question: What about the other way around?

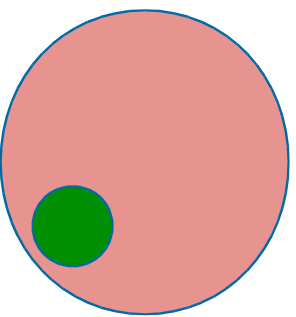
- If you have not performed a Risk Assessment and a Business Impact Analysis you have no idea what the value of your data is...
- ...and if you don't know that value, how do you know how much to spend, and what to spend it on?...
- ..and if you don't know how much to spend, how do you know you're spending what you DO have on the right things?

Potential Negative Impact

Let's say you have a £50,000 for IT security across your organisation. Before PCI you would spread that fairly evenly;



But with PCI, it's recommended that you segment your cardholder data and put robust controls around that;



What about the REST of your company's sensitive data?!

That Detective, is the Right Question....

Assuming you have actually performed the Risk Assessment and Business Impact Analysis, you should;

- know the controls you need to put in place and how much you should/can spend
- perform all necessary due diligence on the control options
- know how the new controls will be managed and monitored
- integrate them into your business-as-usual and Governance processes

You Make it Sound So Easy!

Control Due Diligence? Managed and Monitored? Errrrr?

- How do I choose the right technology?
- How do I ensure it can be integrated?
- How do I manage and monitor it?
- Will I actually be more secure?
- How do I show the BENEFIT!?

All these questions should be ANSWERED before you spend penny one.

Technology Overkill?

- Firewalls
- File Integrity Monitoring
- Intrusion Detection/Protection (host based or network)
- Log Management
- Security Information & Event Management (SIEM)
- Encryption
- Tokenization
- Data Loss Prevention (DLP)
- Network Access Control (NAC)
- Web Application Firewall (WAF)
- Two Factor Authentication
- ...and so on, and so on!

Summary

- Step 1: Examine ALL business processes and classify your data types
- Step 2: Change processes to not use sensitive data [where possible], then remove legacy data from everywhere you find it
- Step 3: Conduct a risk assessment and business impact analysis across the entire enterprise
- Step 4: Agree on the controls you need in place to meet the risk
- Step 5: Make purchases of technology and services that match the controls, provides scalability, and meet these criteria;
 - Can be integrated / is interoperable with existing infrastructure
 - Can be managed centrally
 - You have the skill-set in-house to monitor it, or have outsourced
 - Meets all internal SLAs, internal audit, and reporting needs
 - Is in support of your Incident Response & Business Continuity Plans

Resources

- BSI's 'A Practical Approach to Business Impact Analysis'
- Control Objectives for Information and related Technology (COBIT®)
- ISO 27001 - ISMS - Requirements
- BS 25999 - Business Continuity Management
- NIST's SP 800-30: Risk Management Guide for Information Technology Systems