

Why bother?

Theory

Practice

Reality

### Why bother?

What are you trying to do?

Why are you trying to do it?

How are you going to do it?

Who's doing it?

How can you tell that you're done?

# Theory

#### Quick'n'Dirty

Goals

Why are you doing this?

Requirements

What means that you've met the goals?

**Specifications** 

How do you meet the requirements?

**Implementation** 

Do the work according to the specifications

Review

Does the work match reqt's, solve problem?

Completion

Done!

#### Goals

Why are you doing this?

What do you want to do?

What problem(s) are you trying to solve?

### Requirements

What meets the goal(s)

What is success?

What are the limitations?

Who's involved?

How can you tell that you're done?

## Specifications

How do we meet the requirements

Detailed

Specific

Prescriptive

### Implementation

Do Stuff!

Build

Test

**Deploy** 

#### Review

Did we hit our goal?

Did we meet the requirements?

Did we follow the specifications?

## Completion



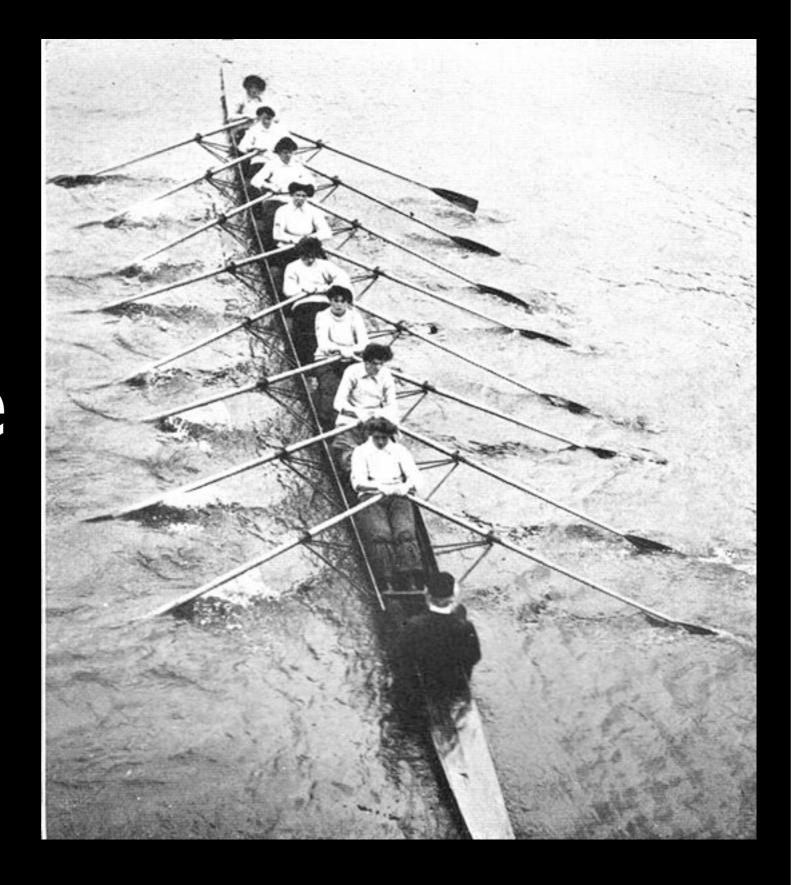
## Practice

## Bang for your Buck



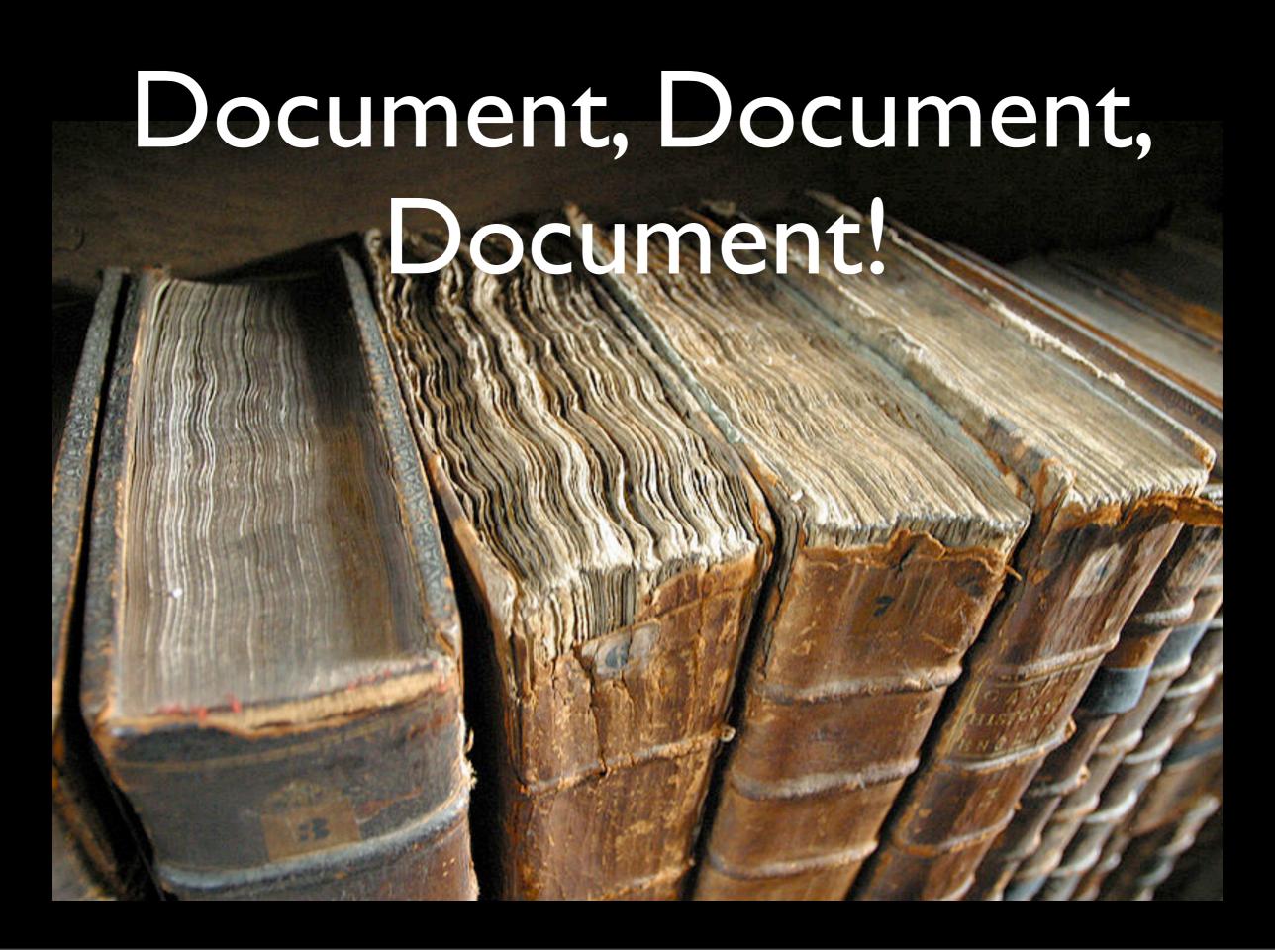
# Participate

# Cooperate



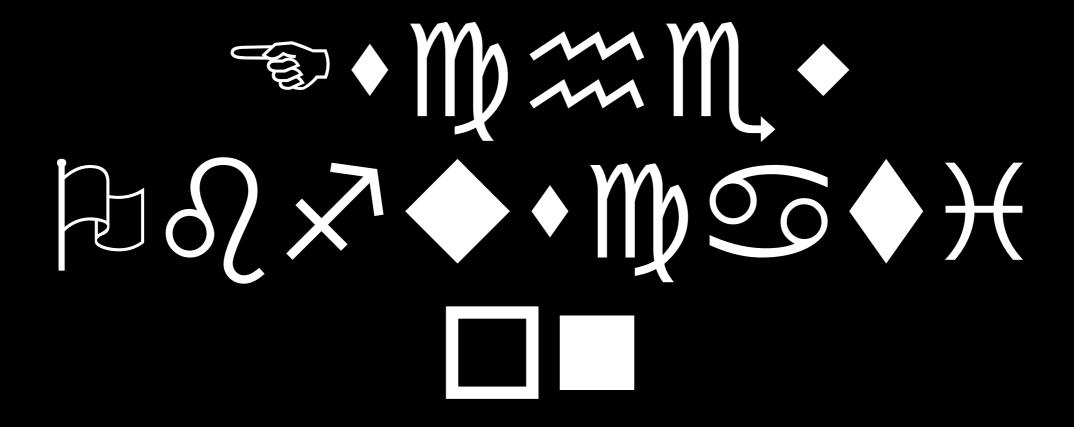


### Communicate



#### Common Ground





# Appropriate



Brevity is the soul of wit

### Ask, don't tell!





Agree

# No Surprises





### Summary

One or two short sentences that anybody can understand

 "Need to automate to do more work with less people"

VS

 "Synergize our core competencies with advanced enterprise specific COTS software to increase overall productivity while maintaining or reducing existing overhead" What?

Clarify Goals
Define Audience
Describe Success
Set Limits

#### Focus

Turn goals into something useful

What will meet the goals

#### Audience

Who cares?

Who needs to be involved

Who are the consumers

#### Success

How can you tell that you've met the goal(s)

How can you tell that you're done?

Limit

Scope People Things Money

Time

#### Realistic

"Able to recover from hardware failures in 4 hours"

VS

"Hardware must never fail"

#### Relevant



#### Measurable

"Production servers must have 99.9999% uptime"

VS

"Stuff can't break!"

### Unambiguous

"Web server must serve 10,000 hits/hour"

VS

"Good web server"



## Meets requirements Stays within limits Detailed

### Specific

"Use Apache 2.x with Tomcat to serve dynamic web content"

VS

"Use a web server"

### Appropriate

"The web server platform will be DL380 G6 servers with the following configuration ..."

VS

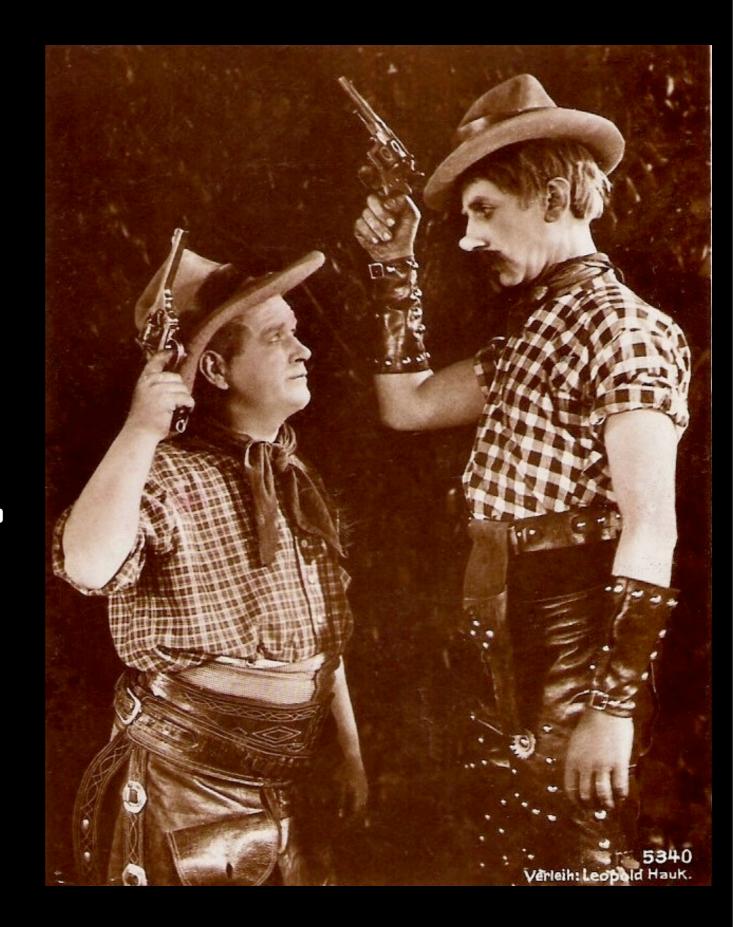
"The web server platform will be a Cray XT5..."

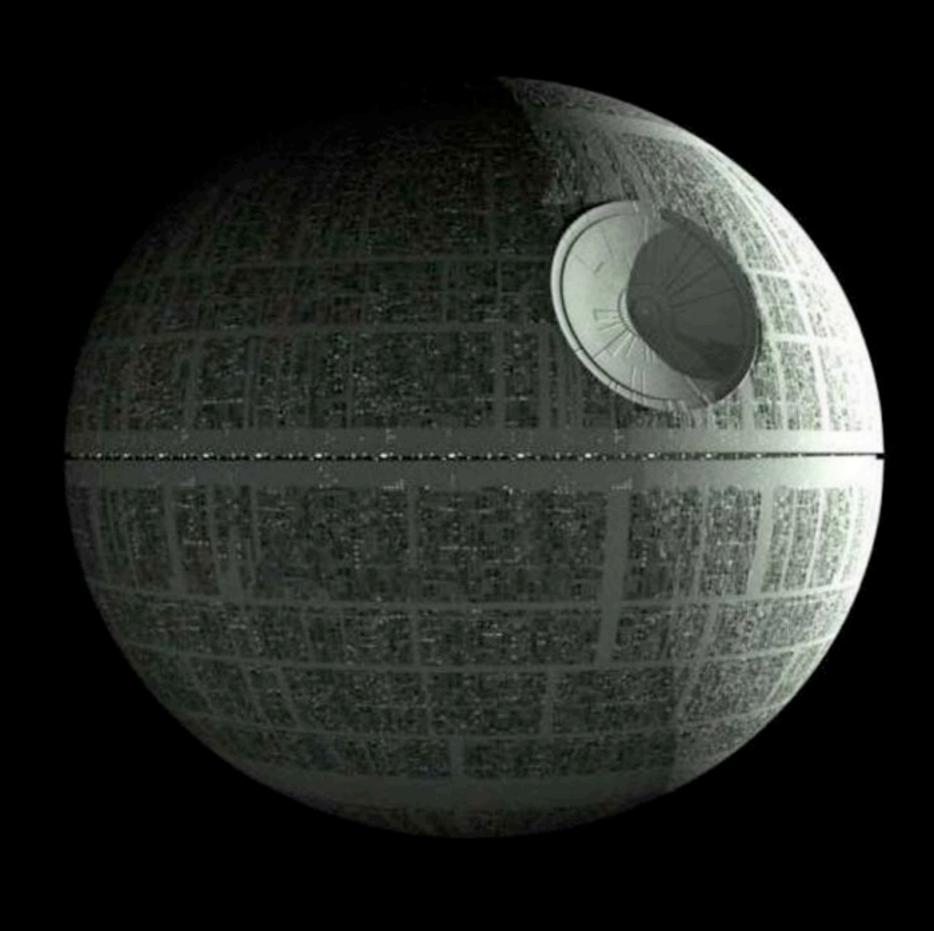




### Storytime

### Our Protagonietes





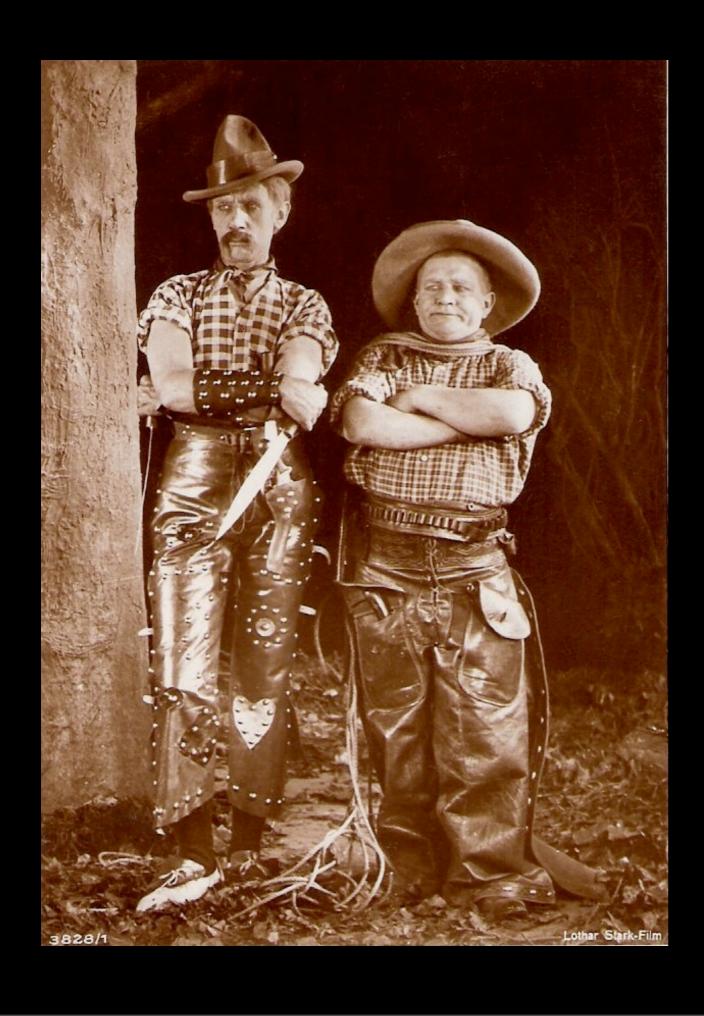
### Goal: Build Death Star



### Pumpkin.!

### Requirement: Use pumpkin





"Something
id Midding"



### Requirement: Lights



"There's no space for lights in there!"

### Requirement: Empty Pumpkin





# Specification: Use spoon to clean out Pumpkin



"This spoon is not working well. ..."

Problem:
Spoon is not the right tool!



"Hmmm ... "

"Here, Try this!"



### Reality

### Build



### Buy



### Borrow

Communication
Confusion
Consternation



### Communication



### Scope Creep

#### Ask Mom / Ask Dad

"I'm ignoring you ..."



### Confusion

### Fuzzy Language

#### Out of touch with Reality

#### Solutions looking for a Problem

#### Consternation



#### Bad Assumptions

#### Missing Limits

#### Death from Above

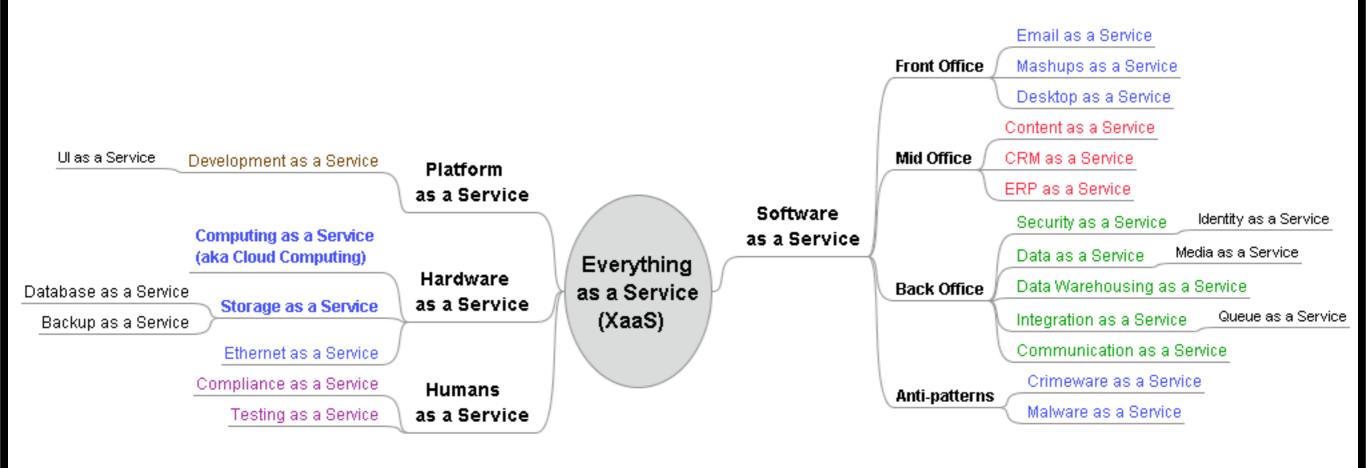
## Clarify Change Ignore

#### "We're moving everything into the Cloud"



## The Cloud ???

#### What's "everything"?



Author: Peter Laird, Oracle

Note: colors are only used for visual clarity and have no other meaning



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### "Bring our application management tools into the 21st century"

#### Who's involved?

External Contractor
System Administrators
Application Owners

#### Requirements

Replace legacy 3270-based application management tools with current, supported COTS software

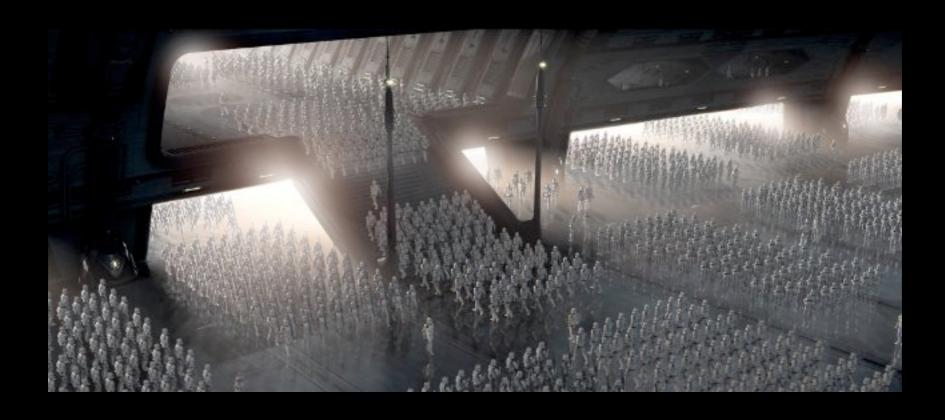
#### Specifications

Windows 2003 / 2008 Click-and-drag interface

#### A minor technical detail ...

```
Welcome to Tanit Travel 3270
TTFLIGHT
                           1 : Add a flight
                           3 : Modify a flight
                           4 : Remove a flight
       Select an option:
Enter : Continue, PF3 : Return, PF4 : Abandon
```

#### Just like me



# NASA Mars Climate Orbiter

A Lockheed Martin spokesperson confirmed that their engineers had been sending data in English units.

When asked whether the company was aware that NASA had been expecting metric units, the spokesperson said, "Obviously not."

http://www.space.com/missionlaunches/launches/orbiter\_errorupd\_093099.htm

#### RFPs



#### RFC1149 & RFC2549

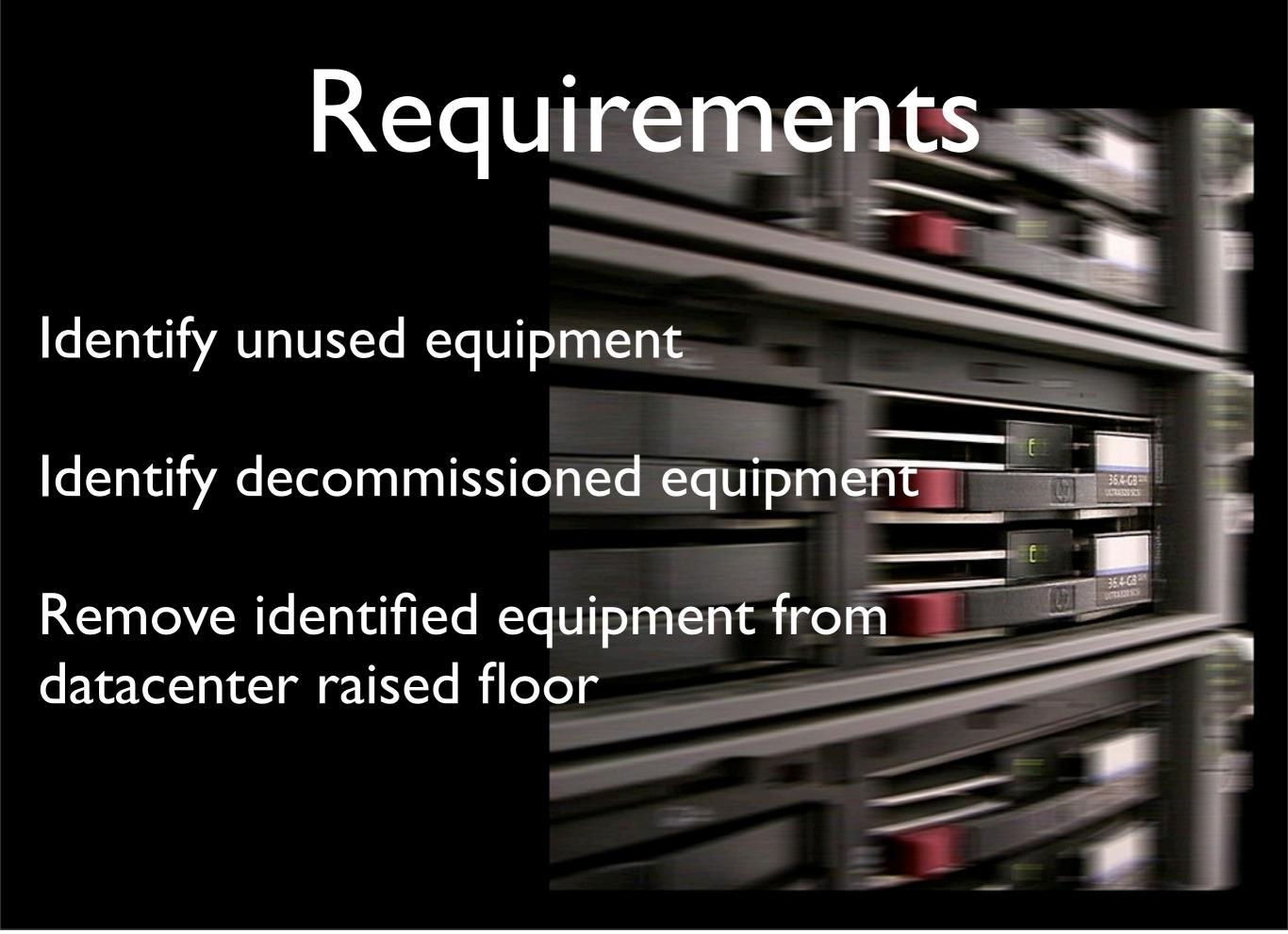
Datacenter Cleanup



"Remove unused and decommissioned equipment from the Datacenter to reclaim power and space for future use"

#### Who's involved?

Systems Engineering
Network Engineering
Project Management
System & Network Operations



#### Specifications

Systems and Network Operations will identify unused and decommissioned equipment by rack number, and provide a list to Facilities Management.

Facilities Management will power off and remove the equipment on the list from the datacenter raised floor.

#### A minor technical detail ...



#### Thanks to: Noel Dickover

(http://www.fantasypumpkins.com/carving-the-deathstar.htm)

#### Questions?