

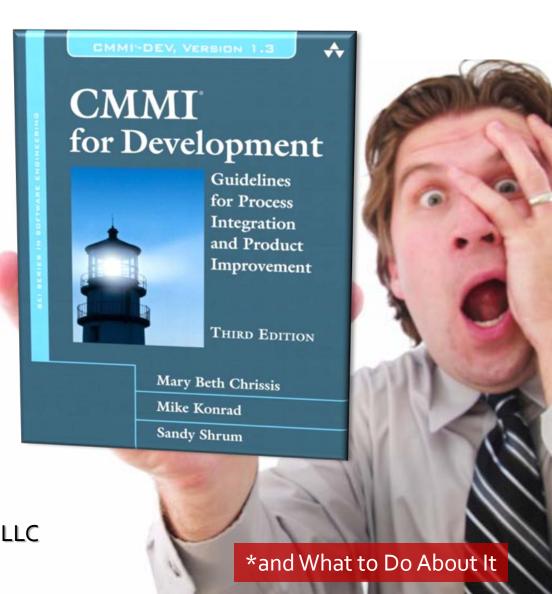


Why Project Managers

(Understandably)

Hate the CMMI*

Bill Smith CEO Leading Edge Process Consultants LLC www.CmmiTraining.com



This presentation is being delivered at the 11th Annual NDIA CMMI Technology Conference and User Group in Denver, Colorado, USA, on November 16, 2011. All slides contained herein are Copyright 2011 by Leading Edge Process Consultants LLC. Basically, you're not allowed to copy, modify, or otherwise use any of them without our written permission. Please respect the fact that I left our logo and copyright information off the individual slides to make them look a bit cleaner. (Cool, huh?) Plus, the Software Engineering Institute (SEI) would like you to know that SCAMPI, SCAMPI Lead Appraiser, and IDEAL are all service marks of Carnegie Mellon University. Wait, you're still reading this? Good for you! There's more. CMMI is registered in the US Patent and Trademark Office by Carnegie Mellon University. Sorry, but my lawyer made me add all this stuff, and he only speaks legalese. I promise the rest of your time with me will be a bit more interesting. Thank you for your patience. Bill.

Let's roll!

Ground rules



2:15 **-** 3:00



at the end *



set to stun

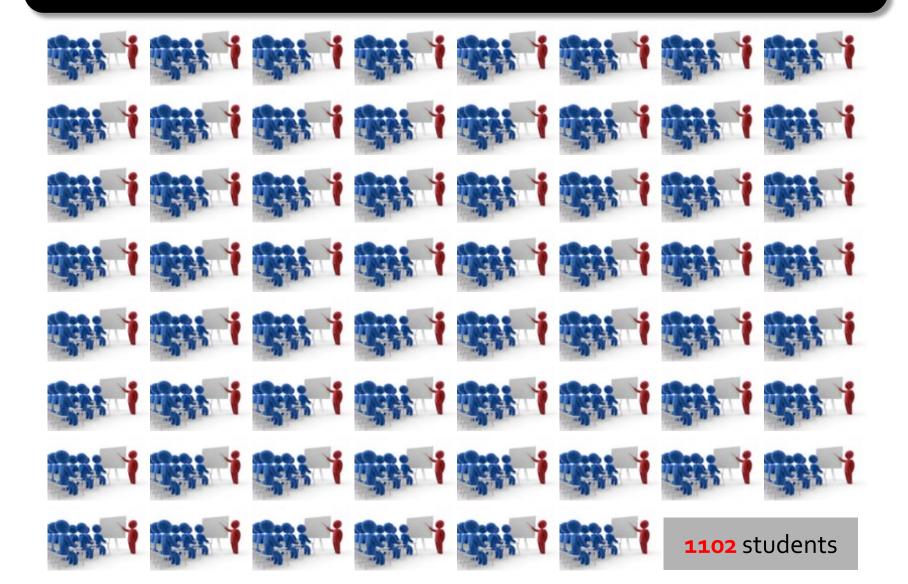
and yes Thave...





I'm familiar with the CMMI®...

62 Intro to CMMI® classes taught



but more importantly I've...

Been there, done that

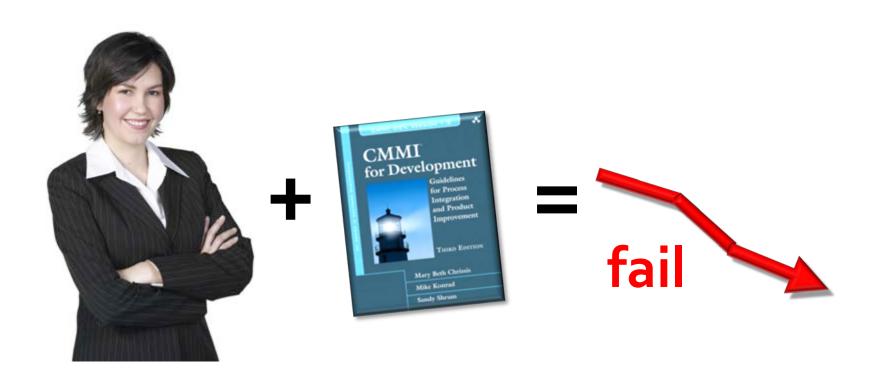


process analyst



Today's **story** is all about...

Changing this...



...into this



Meet Pam



Pam leads a small **team** of...



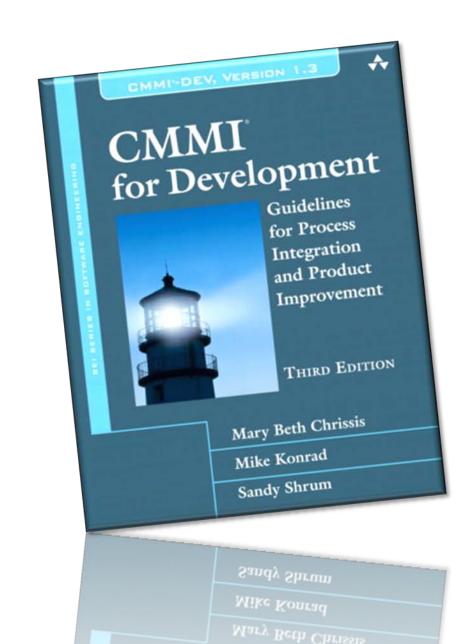
She works near...



and kicks butt at...



but is **clueless** about...



except she's heard it creates...



Pam's team has started coding

✓	Requirements
✓	Design
	Coding
	Testing
	Installation

Her project is rockin'!



on schedule!



on budget!



happy customer!

She even has a new boyfriend...





One day Pam gets an **e-mail**...

Uh-oh

Use our new CMMI processes*

Blah blah all projects must use our new CMMI processes blah blah blah. Blah blah blah blah immediately blah blah blah. Blah blah blah under penalty of death blah blah blah.

Blah blah blah congratulate blah blah blah process group blah blah blah sweated blood blah blah blah.

Signed,

Blah

Mr. Blah Blah VP of Blah Blah



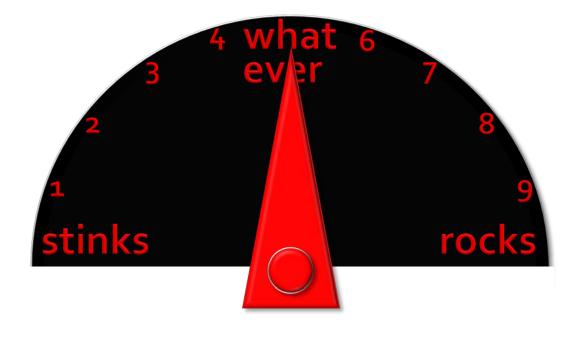
Deployment

Do this (now) because we said so!

Whatever.

I'll look at that stuff when I have time.





Pam's CMMI® Rock-O-Meter

Then one day Pam has a...



Maybe

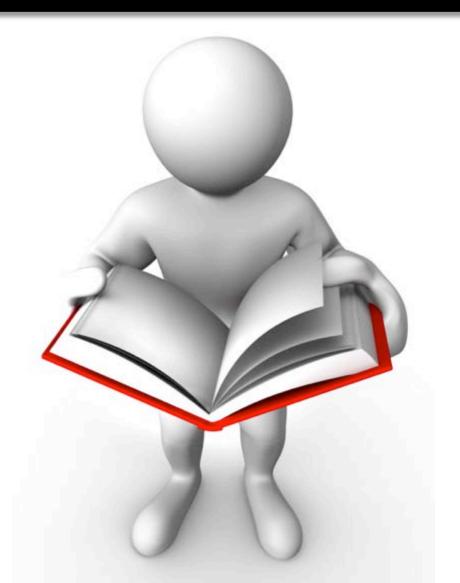
(just maybe)

this "CMMI® stuff" can be useful!

Pam wants a...



She consults the PAL*



*process asset library

...and finds templates for systems like

this



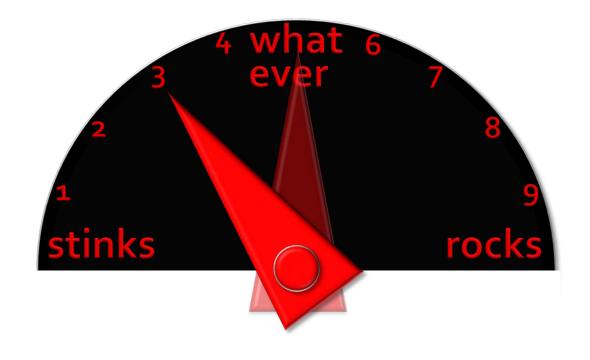
...but her system is more like this

She's forced to develop a plan



on her own Crap! I thought the CMMI® was supposed to help with stuff like this!





Pam's CMMI® Rock-O-Meter

3

QA pays a visit...



Pam's project is audited

Blah blah blah data management plan. Blah blah blah stakeholder involvement plan. ' Blah blah blah

blah blah blah.



She talks with QA



You must follow the process.

I have **no time** for this!

You must follow the process.

It doesn't help my project!

You must follow the process.

The rules were changed on Pam mid-stream!

She works day...



Addressing "non-compliances"

instead of

_

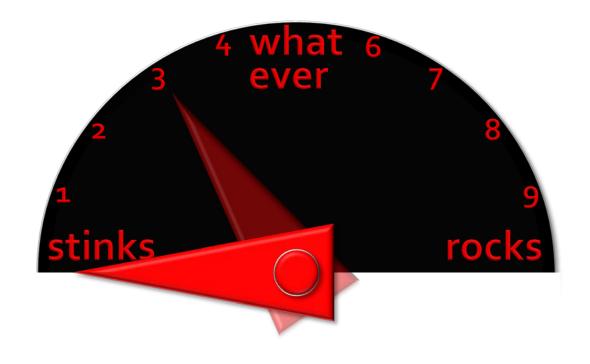
But most "fixes" have no business value



So the CMMI® really is just about paperwork...

...and now I'm behind schedule!





Pam's CMMI® Rock-O-Meter



Pam discovers appraisals...





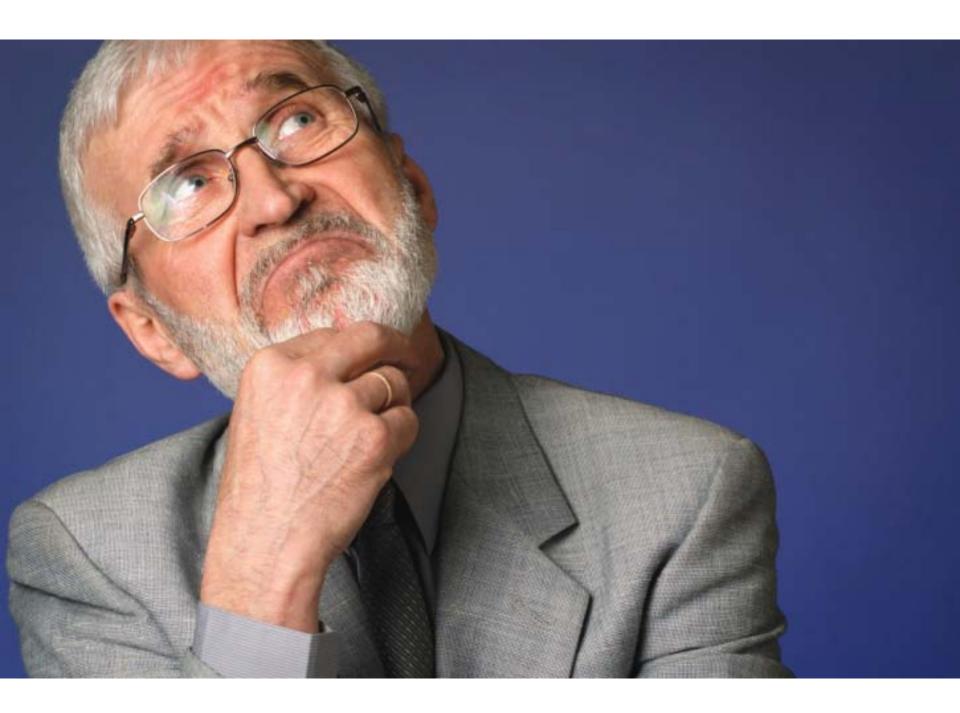












The project's new part-time job,

"populate evidence matrix"...



Evidence matrix review loop



Pam's team

good enough?





EPG*

The project is now so distracted by CMMI® "compliance" that...







...the customer's **not smiling** anymore



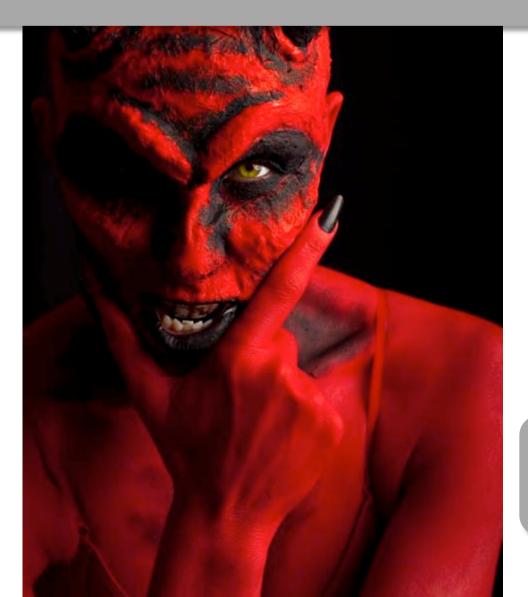
...and Pam's boyfriend dumps her!

Meet the new Pam...





Why did Pam become a...





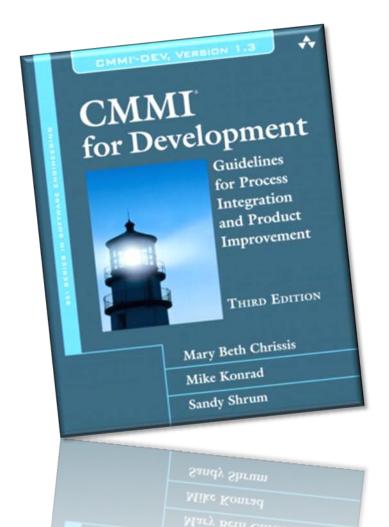








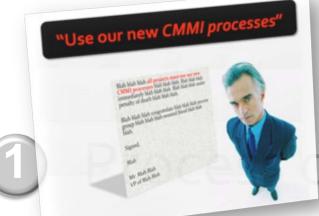
Not because of...



Process development







levelopment

Process deployment

3





- Process development
- Process deployment
- Appraisals

We could go on and on and on and on and on and on

about each of these...

Instead let's focus on a few process improvement best practices...



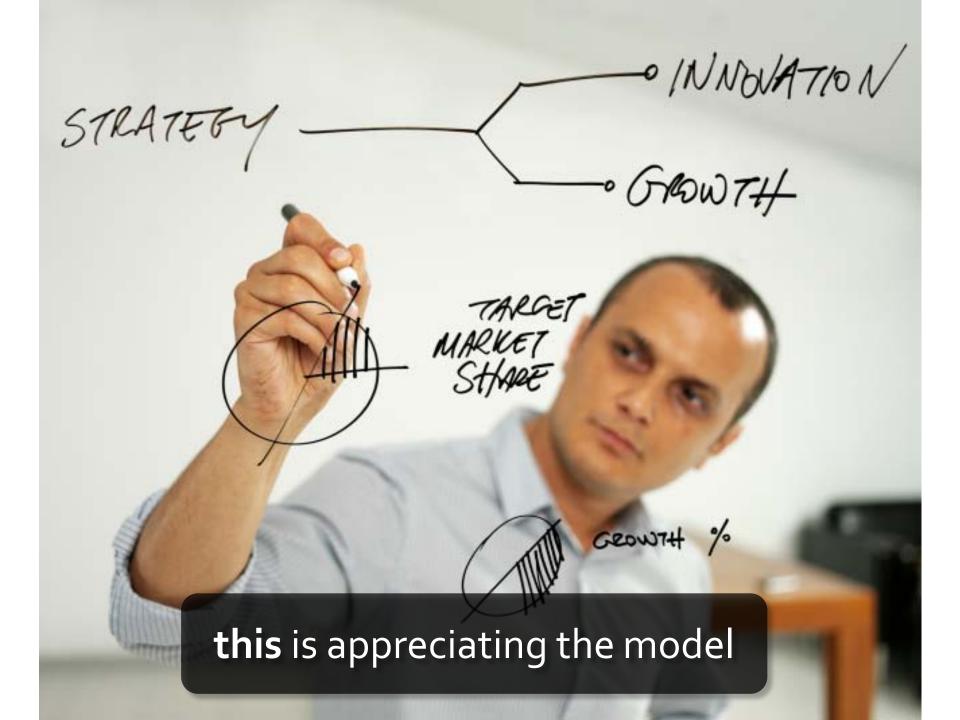
...that a project manager might value

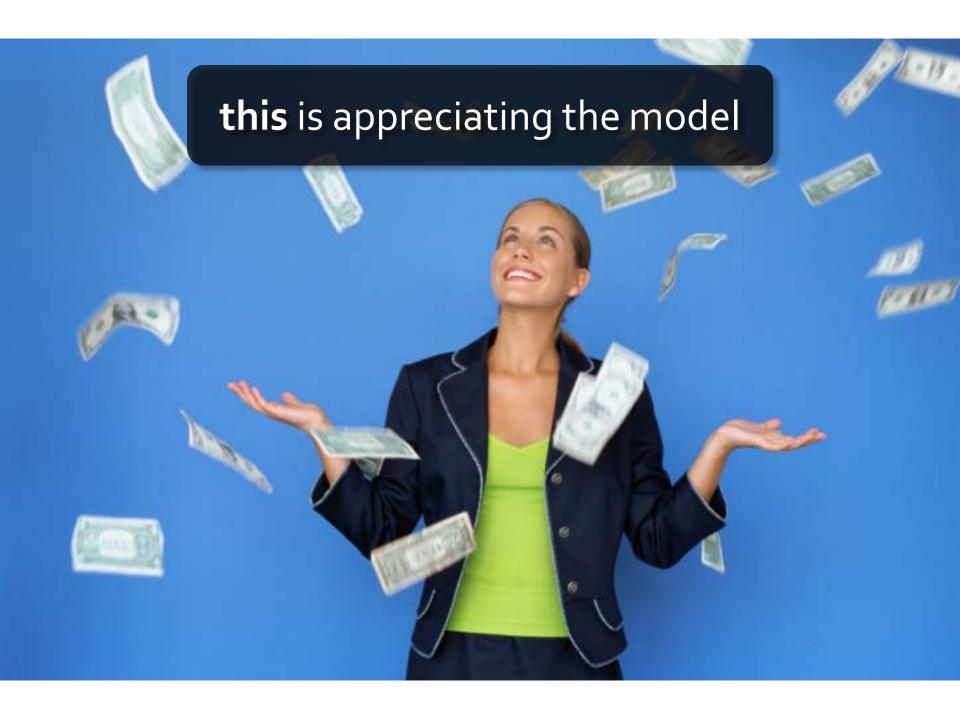


Process development

Ensure that your process developers appreciate the model









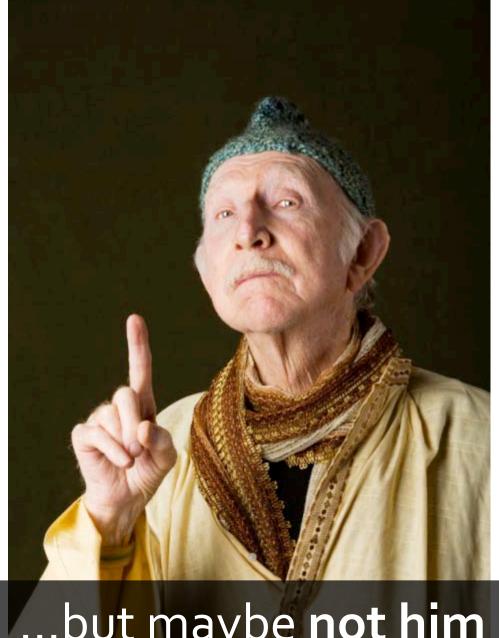


Involve people that do "real" work



like her...





...but maybe not him

Use project planning to plan your PI* project



Open the book in Goal and Practice Summary

of proj.

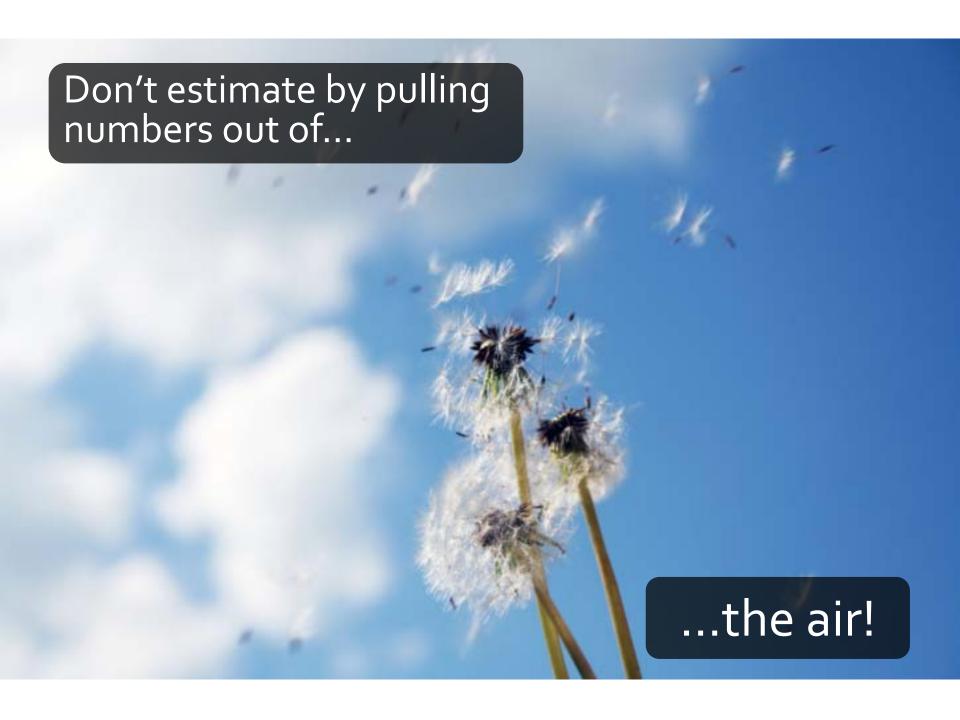
nclude lucts to let line

ed work

ntly than in el plan for s will esti-

Estimate the Scope of the Project Establish Estimates of Work Product and Task Allributes

Establish Estimates of Phases 501 Establish Esth Define Project Lifecycle Phases Estimate Effort and Cost 5P 1.2 Establish the Budget and Schedule 562 Develop a Project Plan Identify Project Risks Plan Data Management Plan the Project's Resources Plan Needed Knowledge and Skills 5P 2.2 Plan Stakeholder Involvement 5P 2.3 Establish the Project Plan SP 2.4 5G3 Obtain Commitment to the Plan Review Plans That Affect the Project Reconcile Work and Resource Levels Obtain Plan Commitment SP 3.1 5P 3.2 Leachy Goal SP 3.3



Develop useful tailoring guidance







Large
Project
Plan
Template

> \$100K



Process deployment

Don't just announce the existence of a book

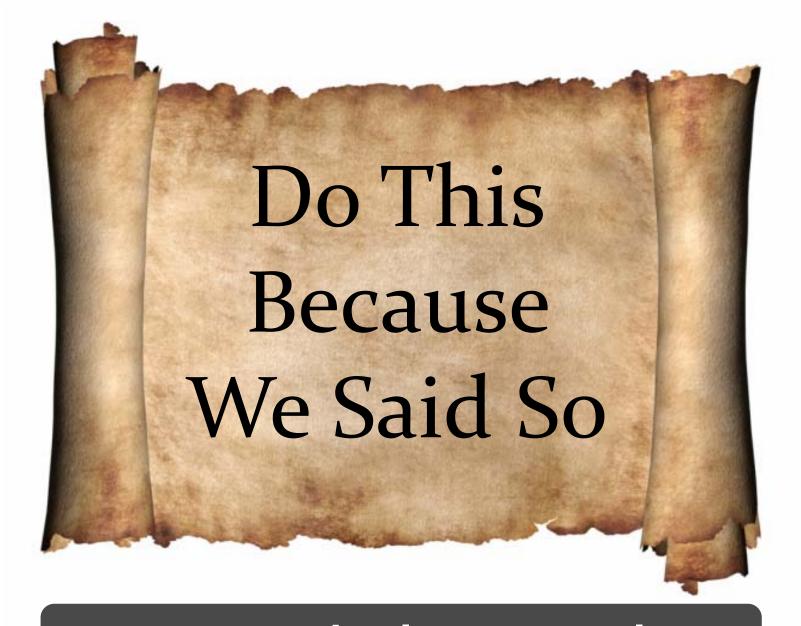


Unless **this** is the reaction you want

Whatever.

I'll look at that stuff when I have time.





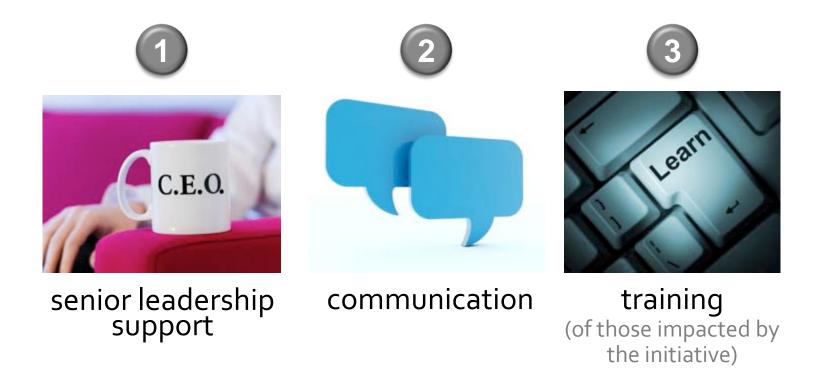
...is not a deployment plan

Try these things instead

Communicate Ensure Access Schedule **Pilot** Guide

Top 3 success factors

in an improvement initiative



Source: The CMMI Success Factor Survey, ACME Process Group, 2010

Caring is better than enforcing



This is not caring



But the project is **half over!**

You must follow the process.



This is caring



But the project is **half over!**

Okay, good point. Let's think about what would make sense here.



"Complying for compliance's sake ravages the operation and firmly entrenches self-defeating cycles of continued mediocrity."

Hillel Glazer, High Performance Operations

Don't change the rules on a project that's already been planned



...unless you're willing to toss



cost

schedule

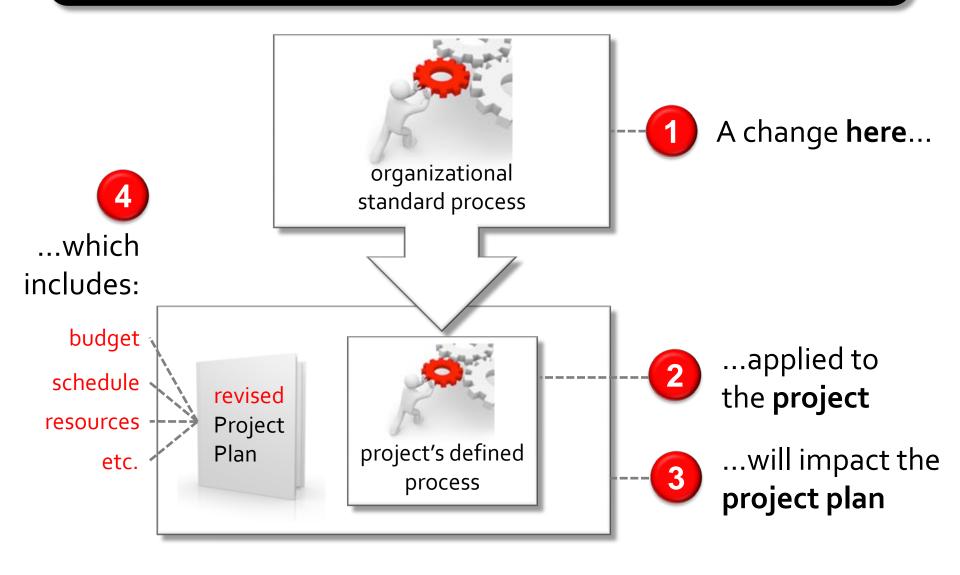
quality

out the...



why?

A process change = a plan change

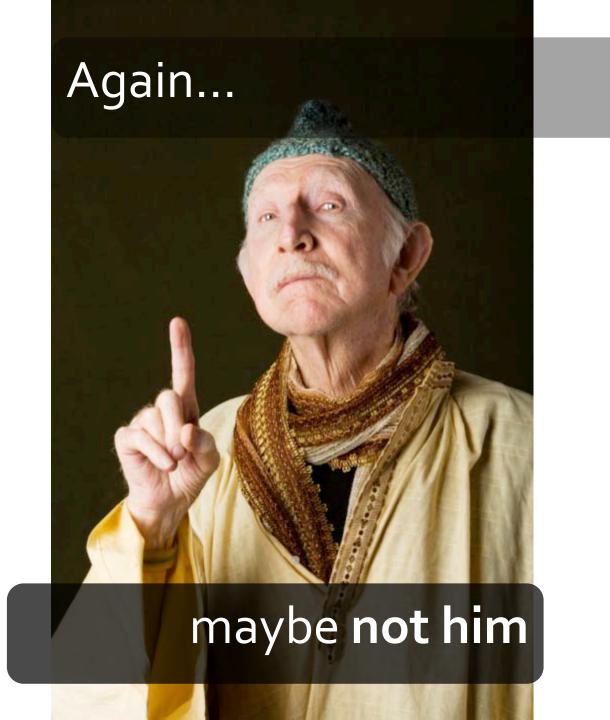




Appraisals

Hire an appraiser with a business value mindset





Don't under-estimate the cost of evidence collection



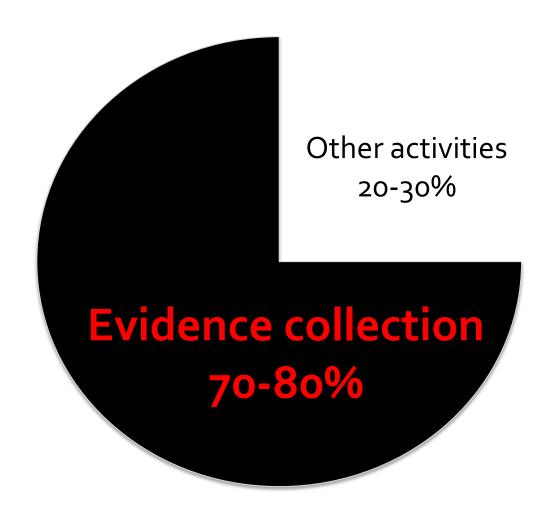
Average total* effort 2500-3000 hours

for small** ML 3 appraisals

*all appraisal activities, including but not limited to evidence collection

**2 projects, 6 team members + Lead, first appraisal at ML 3, CMMI SE/SW v1.1

Total appraisal effort



Source: Value-Based CMMI Appraisal Techniques, Systems and Software Consortium, 2006

SCAMPI
v1.3 may
help with
this a
bit...



But you still need to clearly identify...





Process development

Ensure that your process developers appreciate the model Involve people that do "real" work

Use project planning to plan your PI project

Develop useful tailoring guidance



Process deployment

Don't just announce the existence of a **book Caring** is better than **enforcing**Don't **change the rules** on a project that's already been **planned**



Appraisals

Hire an appraiser with a **business value** mindset

Don't under-estimate the cost of **evidence collection**

Super.

But whatever happened to Pam?

She wakes up one morning and...



realizes her CMMI® experience was all...



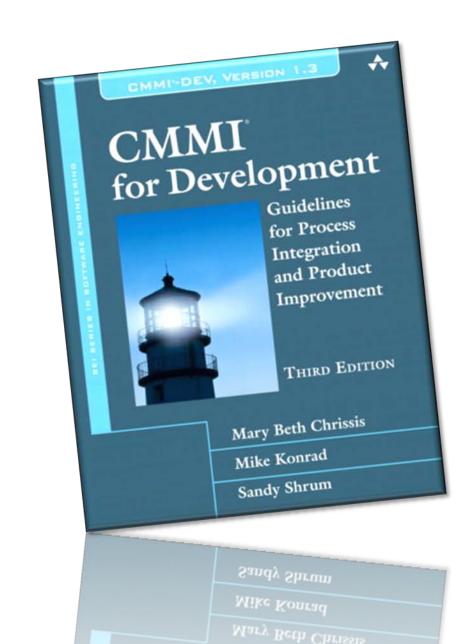
so she grabs some...



and heads off to...



where...



is used, but...



improve operations.



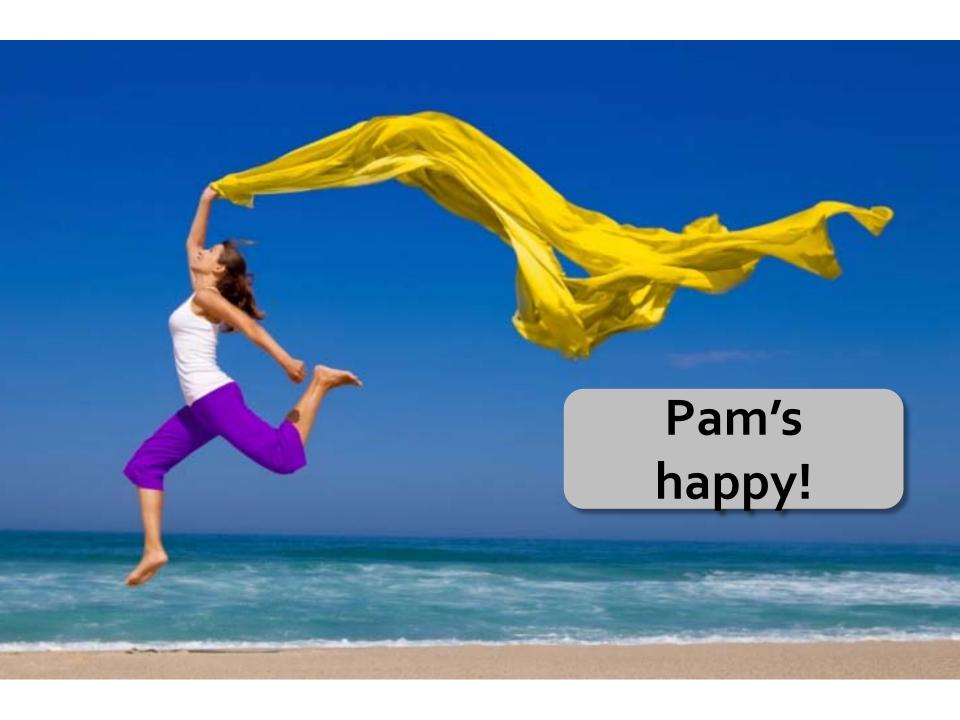


Appraisal preparation doesn't mpact project progress.

and much to Pam's delight...

Her boyfriend still has abs!





and all I ask of you is to...

Please stop the mindless bureaucracy and instead use the CMMI® to legitimately improve your operations.

References

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Rock'n CMMI Training



Bill Smith

...and Appraisals!



Mary Segnit

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