

What the SEI Won't Teach You*

*Nothing to hide, just not their style.

TOPICS



▲ A brief history of the SEI and CMMI

▲ What the CMMI is and isn't

▲ What the appraisal is and isn't

▲ How the appraisal works

▲ How you need to qualify and prepare

▲ Typical P-I Plan

▲ Different macro-level ways to get everything set-up

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ABOUT YOU



▲ *What* is your name?

- ▲ *What* is your purpose?
- ▲ *What* is the airspeed velocity... never-mind...
- ▲ What is your knowledge/experience with CMMI?
- ▲ What would you like to get out of CMMI?
- ▲ What would you like to get out this session?

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À BRIEF HISTORY OF THE SEI AND CMMI

Well... it sounded like a good idea.

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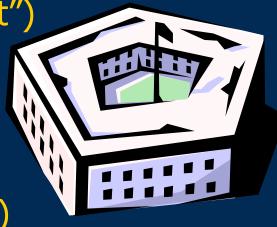
▲ Software Engineering Institute

▲ DOD Funded

▲ Standish Group Study ("Chaos Report")

▲ Carnegie Mellon University

▲ Beat U of MD in a Competition (GQM)



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SEI'S PURPOSE



▲ STOP THIS:

- ▼ ~80% software projects fail
- ▼ ¹/₂ cancelled



1/2 are over budget and schedule by 2x and deliver <60% expected functionality</p>

▼ ~20% succeed:

<20% over budget and schedule and deliver >75% of expected functionality

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▲ Software customers

- Paid *twice* as much
- ▼ Waited *twice* as long
- And Got *half* of what they expected
- ▲ And the DoD was **TIRED** of it!

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CMMI





C apability
M aturity

▼ M odel

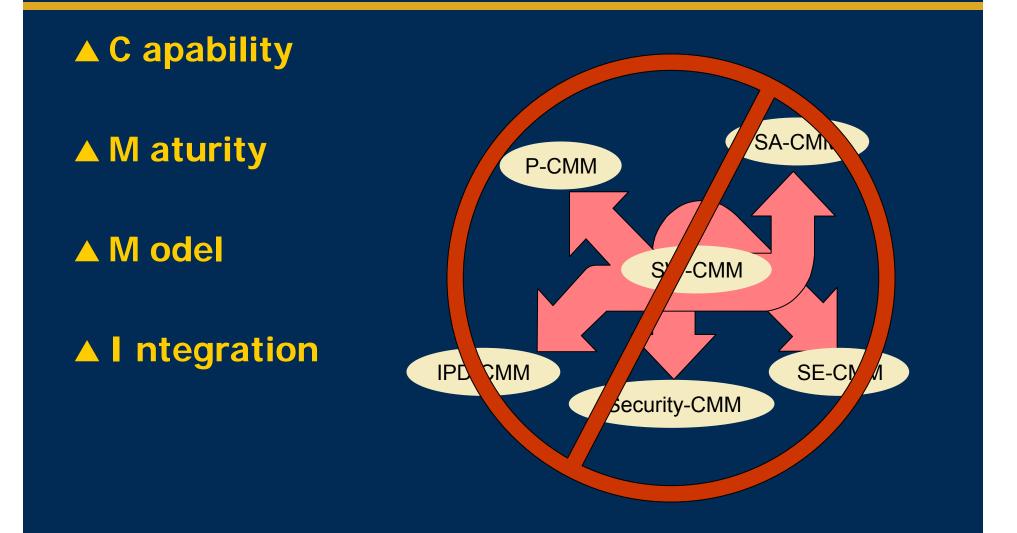


Became SW-CMM when SEI introduced
SE
SA
IPD
P
Security

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CMMI

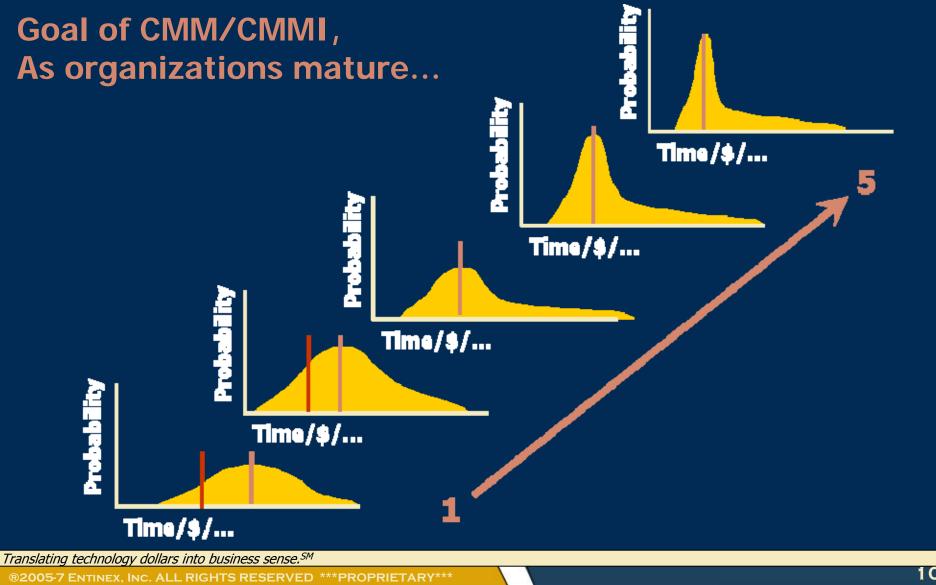




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NAME(S) NOTWITHSTANDING

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Definitions and Misconceptions

CMMI IS A FRAMEWORK

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▲ Not a standard

▲ Not a prescription

▲ IS a <u>de</u>scription



▲ CANNOT be cookie cutter (and still work well)

▲ Does not require purchase of software or tools

▲ Meant for process improvement, not process compliance.

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IMPROVEMENT VS. COMPLIANCE

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▲ Process Compliance =

Do the process this way.

▲ Process Improvement =

Do things that will make a difference to your company.

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IT IS WHAT IT IS...

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▲ CMMI is:

A model

for business process improvement

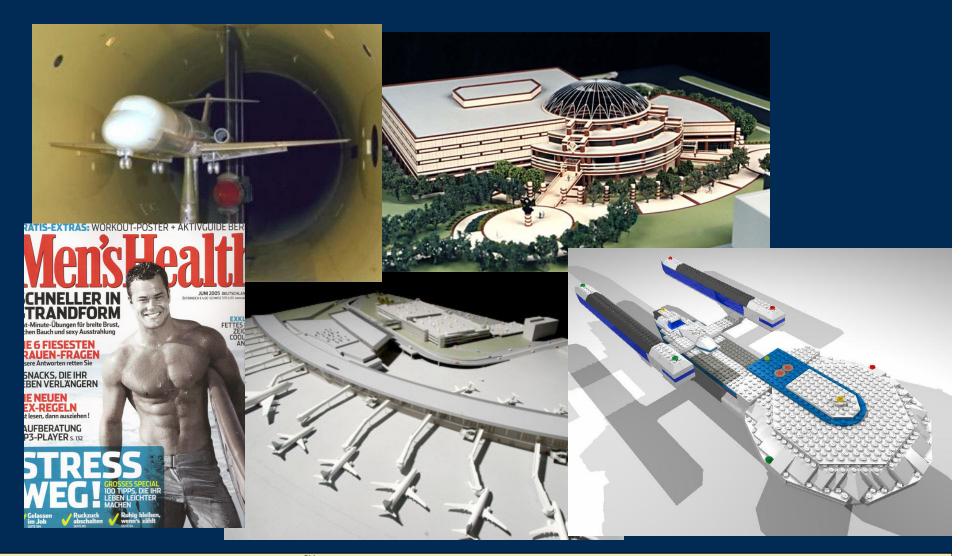
for the management of

development processes.

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MODELS





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IT'S NOT WHAT IT'S NOT...

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▲ CMMI is NOT:

A life cycle

for developing products

for the standards of

development processes.

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Nodel Structure, Terminology and Actual Requirements

IMPROVEMENT NOT DEFINITION



- ▲ The *model* is not the *process*!
- CMMI is full of practices to IMPROVE your processes, not to DEFINE your processes.
- ▲ You likely have practices of your own in most/all process areas.
 - Probably by other names.
 - Likely generating their own appropriate work products.
- ▲ CMMI's practices are meant to improve those activities.
- ▲ If you're not doing an activity, it's probably a good idea to be doing so anyway.

MODEL PRACTICES VS. YOUR PRACTICES

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YOUR practices for DOING activities/ of a given process area

CMMI's practices for **IMPROVING** activities of a given process area

Diagrams not to scale.

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CMMI STRUCTURE



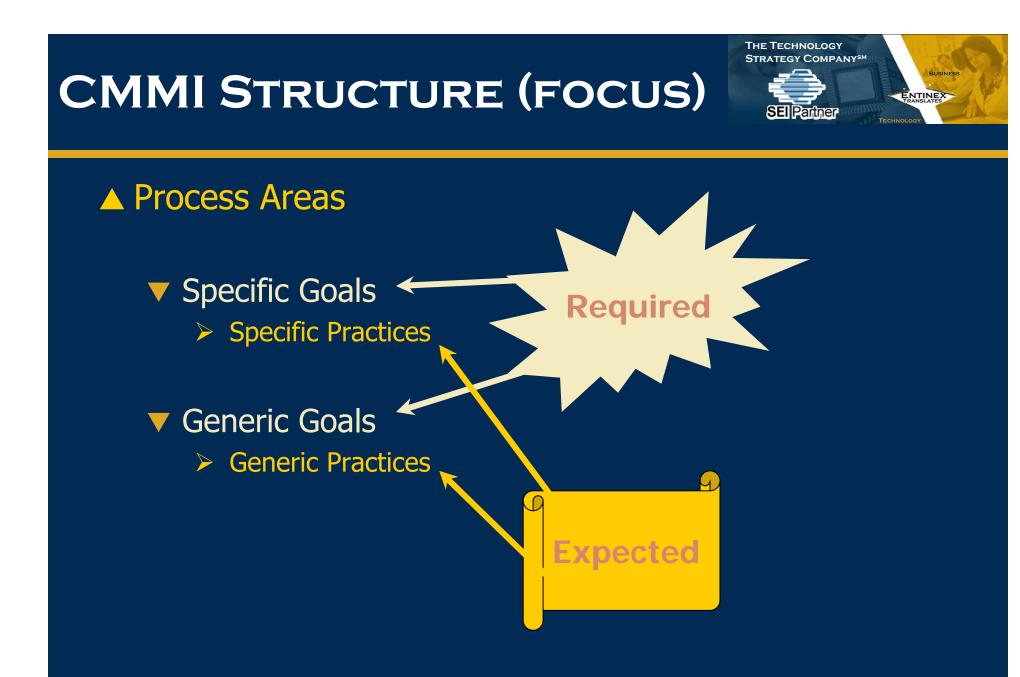
▲ "Super-Structure"
 ▼ Constellations
 > DEV / ACQ / SVC / ...

- Representations
 Staged / Continuous
- Additions



Categories
 Process Areas related to each other
 Engineering / Proj Mgmt / Proc Mgmt / Support

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CMMI "Representations"

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▲ Staged

- ▼ Familiar levels...
- Do these cumulative *m* processes for level *x*, Do these cumulative *n* processes for level *y*...
- Results in *Maturity* Level <u>Rating</u>

▲ Continuous

- New level structure
- Do *your pick* of processes to *this extent* for level *p*, Do *your pick* of processes to *this extent* for level *q...* Results in a *Capability* Level <u>Rating</u>

"Additions" & Constellations

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▲ Additions

- Currently, the only "additions" are for IPPD.
- Implementing IPPD was once done by including 2 PAs and some goals.
- PAs denoted by "+"s
- In the future there may be other additions.
- ▲ Constellations
 - **v** Core PAs (16)
 - Development -
 - Acquisition
- (Currently the only ones published.)

- Services
- \checkmark May be others in the future.

REPRESENTATIONS: THE PA MIX

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 Process improvement path or
 Level ratings

▲ Representations:

How you mix and match the choice of PAs, and
How you plan to grow your capability and maturity.

Growing Maturity = # of PAs Growing Capability = Depth of Institutionalization

WHAT IS INSTITUTIONALIZATION?



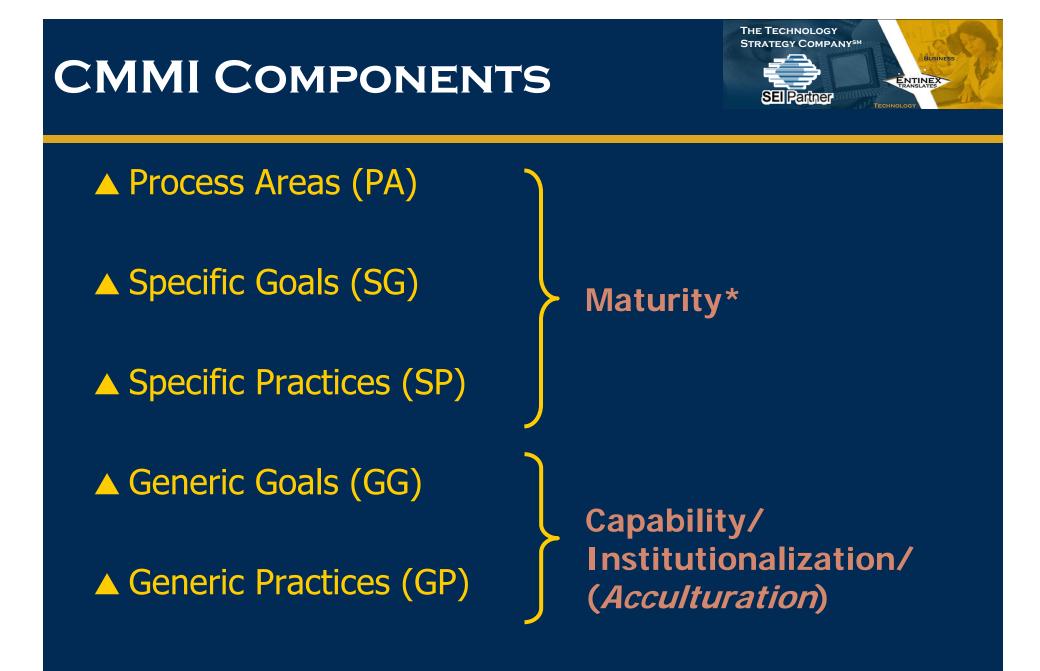
▲ Let's talk about products and projects for a moment.

You're the PM.
 What would be expected of you to manage the product/project?



▲ We like to call it *acculturation*

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PROCESS AREAS (PAS)

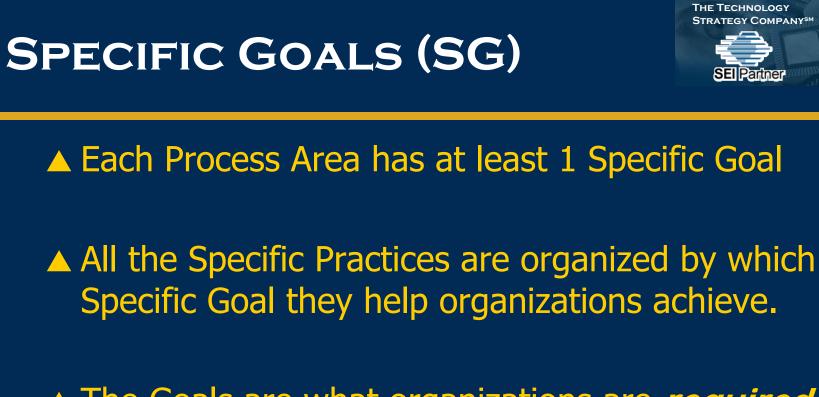


▲ There are 22 Process Areas in the entire CMMI-Dev.

▲ Each PA describes:

 One set of goals and practices that make up the process area: Specific Goals and Specific Practices

And one set of practices that are shared across all process areas: Generic Goals and Generic Practices



▲ The Goals are what organizations are *required* to pursue.

▲ While the *Practices* are what organizations are expected to perform, they can be swapped with alternative practices.

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SPECIFIC PRACTICES (SP)

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▲ What organizations are "expected" to actually do in order to achieve a Goal is described in some number of Specific Practices.

▲ Most Goals have several practices.

▲ The straightest line to achieving a goal is to perform the practices.

The "straightest line" may a matter of perspective.
 Do not assume every practice is right <u>for you</u>.

GENERIC GOALS (GG)



- ▲ Every Process Area has the same Generic Goals with "fill-in-the-blank" differences for each PA.
- Choice of "Staged" or "Continuous" representation determines which Generic Goals are required for a level rating.
- <u>
 ``Capability</u> Level N'' implies that you are performing all the SG/SPs in a PA + all the GPs in through GG N
- ▲ GGs imply how "deeply *institutionalized*" your practices are...

GENERIC PRACTICES (GP)

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▲ GPs in each GG describe what you're doing to "*institutionalize*" the SGs and SPs.

▲ @ GG 1 you are barely executing the PA's SPs from project to project.

GG2 you are making a conscious effort to plan, track, and ensure the success of each PA's SPs. It may look different from project to project, but you're doing enough work each time to get it right.

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GP STUFF CONTINUED



- ▲ @ GG3 you have a single set of defined processes that each project uses and tailors to their specific instantiation. With a single set, you can now start to collect and feed-back improvement data on the processes.
- GG 4 you will be using the data in GG 3 to manage the processes using numbers, not just management oversight. "Quantitatively Managed"
- @ GG 5 you're able to use computational methods to predict process performance, to anticipate process issues, and to create an environment in which you can really get creative with what you improve, how you improve, and when.

WHAT'S "REQUIRED"?



▲ Goals are **REQUIRED**

▲ Practices are *expected* <u>not</u> required

- You've 'got' to be doing "something" to be achieving a goal.
- If you don't already have good ideas for how to achieve a goal, the practices are a good place to start.

▲ Everything else is "commentary"

Which can be helpful if the goals or practices aren't self-explanatory.

▲ Don't assume you and CMMI use terms the same way.

RATINGS INGREDIENTS, 1

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Maturity Levels (Staged)

Level X =

> All PAs in the LEVEL

All SGs in the PAAll SPs in the SG

All GGs in the PAAll the GPs in the GGs



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RATINGS INGREDIENTS, 2

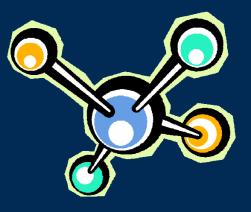


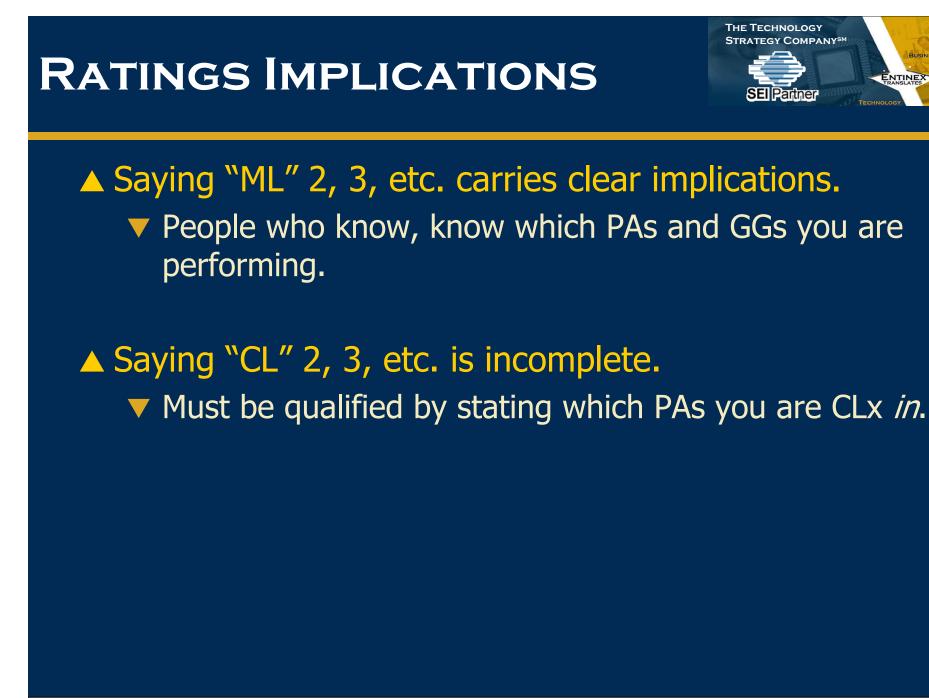
▲ Capability Levels (Continuous)

Level X =

All GG-Xs in the PAs you've chosenAll the GPs in the GG

All the SP-Xs in the PAs you've chosenSPs still do add up to SGs





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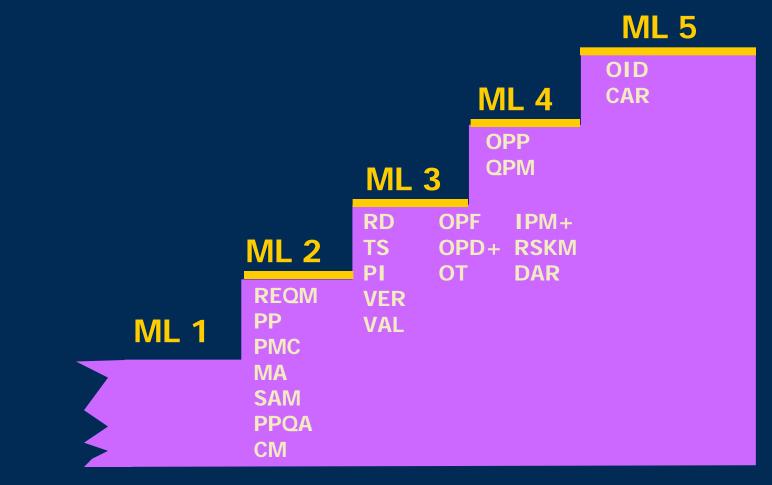
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CONFUSING? AN EXAMPLE: (PART 1)



Maturity Levels



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CONFUSING? AN EXAMPLE: (PART 2)



Capability			
Levels	PA1	PA2	PA <i>r</i>
	SG1	SG1	SG1
	SP1.1	SP1.1	SP1.1
	SP1.2	SP1.2	SP1.2
	SP1. <i>m</i>	SP1. <i>m</i>	SP1. <i>m</i>
	SG <i>q</i>	SG <i>q</i>	SG <i>q</i>
	SP <i>q</i> .1	SP <i>q</i> .1	SP <i>q</i> .1
	SP <i>q</i> .2	SP <i>q</i> .2	SP <i>q</i> .2
	SP <i>q</i> .n	SP <i>q</i> .n	SP <i>q</i> .n
	GG1	GG1	GG1
<u>CL1</u>	GP1.1	GP1.1	GP1.1
	GG2	GG2	GG2
<u>CL2</u>	GP2.1 - 2.10	GP2.1 - 2.10	GP2.1 - 2.10
	GG3	GG3	GG3
<u>CL3</u>	GP3.1 - 3.2	GP3.1 - 3.2	GP3.1 - 3.2
	GG4	GG4	GG4
<u>CL4</u>	GP4.1 - 4.2	GP4.1 - 4.2	GP4.1 - 4.2
CL5	GG5	GG5	GG5
	GP5.1 - 5.2	GP5.1 - 5.2	GP5.1 - 5.2

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Certification?





▲ You perform an APPRAISAL

▲ You <u>get</u> a RATING

▲ You <u>do not</u> get *CERTIFIED*

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NOT ONE MORE SEAFOOD JOKE!



▲ SCAMPI



▲ S tandard

▲ C MMI

▲ A ppraisal

▲ M ethod

▲ P rocess

▲ I mprovement

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SEI EATS ITS OWN DOG FOOD

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▲ ANSI/ISO 15504 ("SPICE")

▲ Appraisal Requirements for CMMI

▲ SCAMPI Method **Definition Doc**ument

▲ Appraisal Plan

▲ Appraisal Results



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MORE ON WHAT IT IS AND IS NOT

▲ Not a Test

Is a benchmark
 for where you are for yourselves,
 not relative to others



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▲ Can be used for many purposes, not just ratings

DOES NOT require special documentation

▲ DOES NOT intrinsically impose <u>any</u> tools or work(!)

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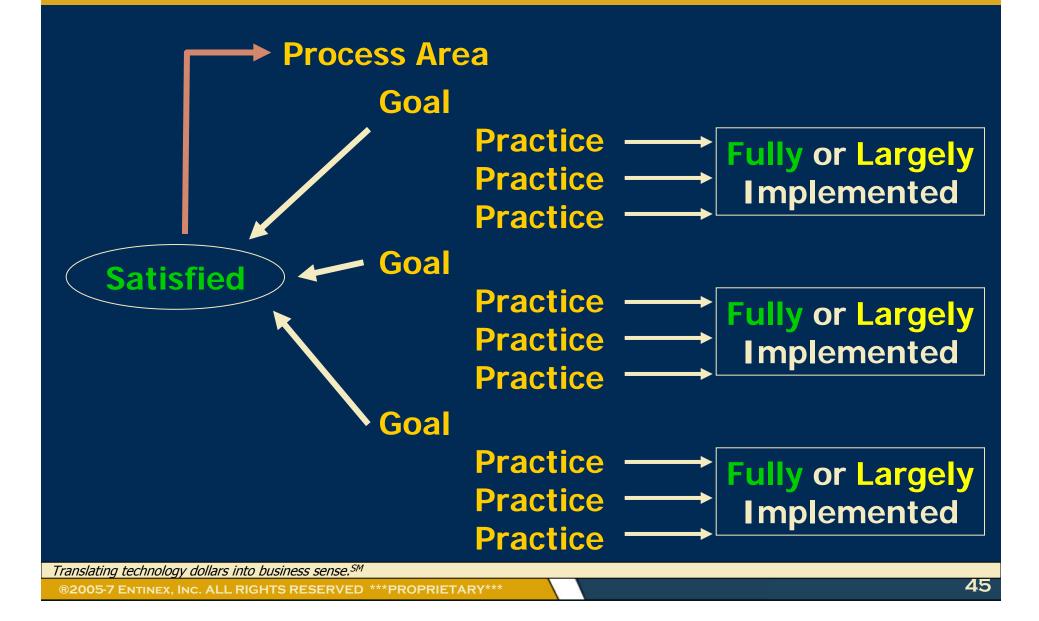
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Appraisal Mechanics You Must Know

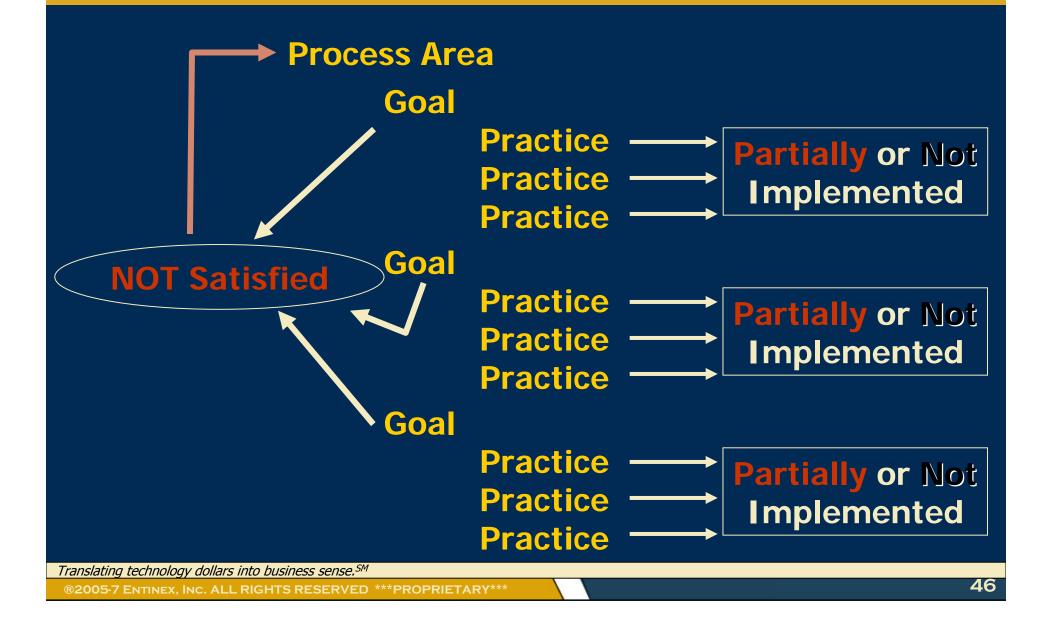
LEVEL RATINGS, 1

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LEVEL RATINGS, 2

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STRATEGY COMPANYSM BUSINES LEVEL RATINGS, 3 ENTINEX SEI Partner **Process Area** Goal* **Practice** Partially or Not **Practice** Implemented **Practice** Goal **NOT Satisfied Practice Fully or Largely Practice Implemented Practice** Goal **Practice Fully or Largely Practice** Implemented **Practice** Translating technology dollars into business sense.SM

47

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*NOT ALL SHE WROTE



Goal

Alternative Practice Practice Alternative Practice





Alternative practices must be qualified, and supported by Objective Evidence

How we determine FI, LI, PI and NI



▲ Objective Evidence

- Direct Artifact
 - Direct output of a process/practice, e.g., the process says "write a plan" and the DE is the plan

Indirect Artifact

Some item that clearly shows a process was being followed e.g., meeting minutes in which a process/practice was addressed

Affirmations

Verbal (written or oral) communication to the appraisal team that provides positive corroboration of a process.

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FI, LI, PI AND NI

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Goal				Goals are just	
	Practice			🌢 or 👎	
		Project 1			
		Project 2			Can only be Ll
		Project 3			
	Practice				
		Project 1			<u>Can't</u> be FI
		Project 2			Could be PI
		Project 3			
	Practice	ractice			
		Project 1			
		Project 2			Can only be Ll
		Project 3			
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MINIMUM OBJECTIVE EVIDENCE

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1 Direct Artifact

1 Indirect Artifact or 1 Affirmation

(with a calculated minimum # of affirmations)

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DEFINITIONS OF FI, LI, PI (NI AND NR)

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▲ Fully Implemented=

All required OE and no weaknesses

▲ Largely Implemented=

All required OE and qualified weaknesses, or consistency among weaknesses.

Partially Implemented = Missing OE and/or weaknesses that prevent the practice from being implemented.

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▲ <u>Practices</u> that are *not*, or are only *partially*, performed.

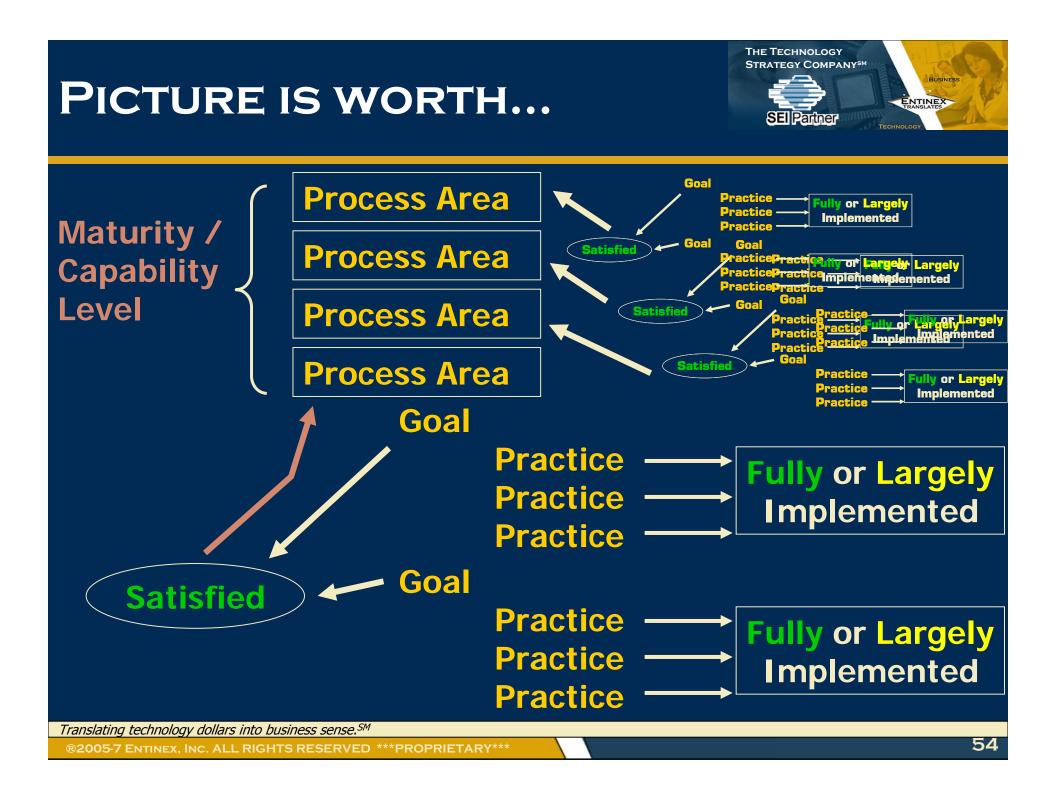
▲ Evidence that must be massaged to fit the expected practice, or, that you did it looks like a coincidence.

Evidence that is out of synch with practices definitions.

▲ Evidence that looks like it was created for the appraisal.

*not a complete list

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Are you ready? When are you ready? Should you bother?

BASICS



▲ Have policies and processes.

▲ Follow them.

▲ Can show (objectively) that you follow them.



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PREPARATION BASICS



Any company staff on the Appraisal Team must have completed an SEI-Licensed course of *Introduction to CMMI*

- ▼ (Team consists of a leader + 3 people)
- (Can include internal and external members)

▲ Team members (and leaders) must have certain minimum experience

- ▼ In Engineering, Management and Life Cycle
- Sticking junior staff on the team is not a good plan





Lead-in to the Appraisal includes:
 Readiness Review(s)

- Appraisal Team Training (not the same as "Intro...")
- Lead Appraiser writes an Appraisal Plan
 Registers the appraisal with SEI
- These two slides outline what's required by the SEI, not what may needed for YOU.



Getting Started to Getting Done

TYPICAL ROAD MAP

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▲ Gap Analysis

Where are you relative to the CMMI?

▲ Training/Knowledge Transfer

▲ Process Improvement

Assuming you "ain't all that"

Process creation and deployment



▲ Process Institutionalization and Normalization



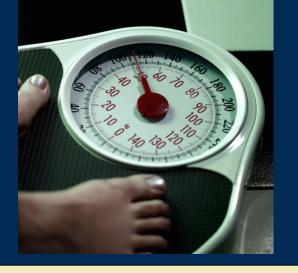
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FACTORS THAT AFFECT TIME AND COST

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- ▲ Where you are w.r.t. CMMI? (i.e., Gap Analysis Results)
- ▲ How "process-oriented" is your company?
- How much work will your company do on its own?
- How much work will your company need help doing?
- ▲ How much progress do you think you'll be able to make?

▲ How quickly?



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STOP!





You really must answer some questions of yourself before you even embark upon the SCAMPI journey.
 Why do you want one?
 Can your reason be justified in business goals?
 Can your business goals be qualified in ROI?
 If you're not the one who calls the shots, who is and will that person give you the resources to get through this successfully?



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DIFFERENT MACRO-LEVEL WAYS TO GET EVERYTHING SET-URES

> Opinion: The most "common" way is the worst way. The "path of least resistance" usually means you hit the wall faster.

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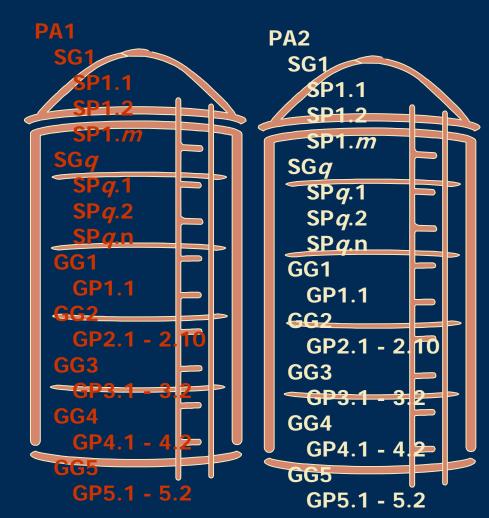
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PROCESS SILOS



▲ PAs in a vacuum.

- ▲ Each PA is self-contained in it's own silo.
- ▲ For each PA instance, practices are planned, performed to its plan.
- ▲ Can be implemented w/out affecting 'real' work.
- ▲ Adds layers of process overhead & paperwork.
- ▲ Makes appraisers' jobs easier.
- Makes developers' jobs harder.
- ▲ Least "Institutionalization"



A WORD ABOUT THE GPS

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▲ Generic Practices:

- Establish an Organizational Policy & a Defined Process
- Plan the Process
- Provide Resources
- Assign Responsibilities
- Train People
- Manage Configurations
- Involve Stakeholders
- Monitor & Control the Process
- Objectively Evaluate Adherence & Collect Improvement Information
- Review Status w/Higher Level Mgmt

GP DISCUSSION



▲ Generic Practices

- Same in every PA
- Refer to the SPs of the respective PAs

▲ The Silo'd Approach:

- Is mechanical and simple (minded)
- Good for companies with lots of overhead
- Requires these be done for every project
- Often unrelated to:
 - > what the actual work is
 - when the actual work is done
 - when practices are used
- Most often, very disruptive
 Too easy to "get wrong"



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IN OUR OPINION

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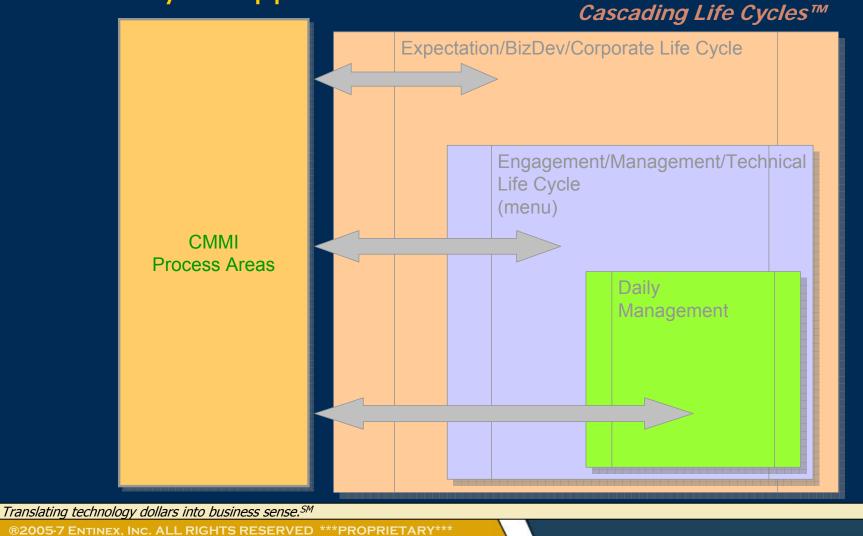


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INSTEAD...

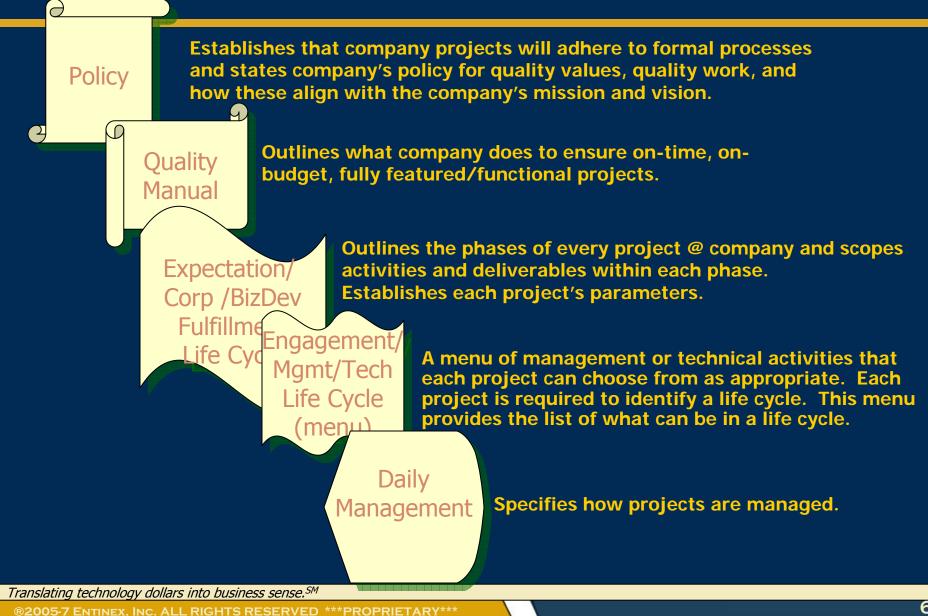


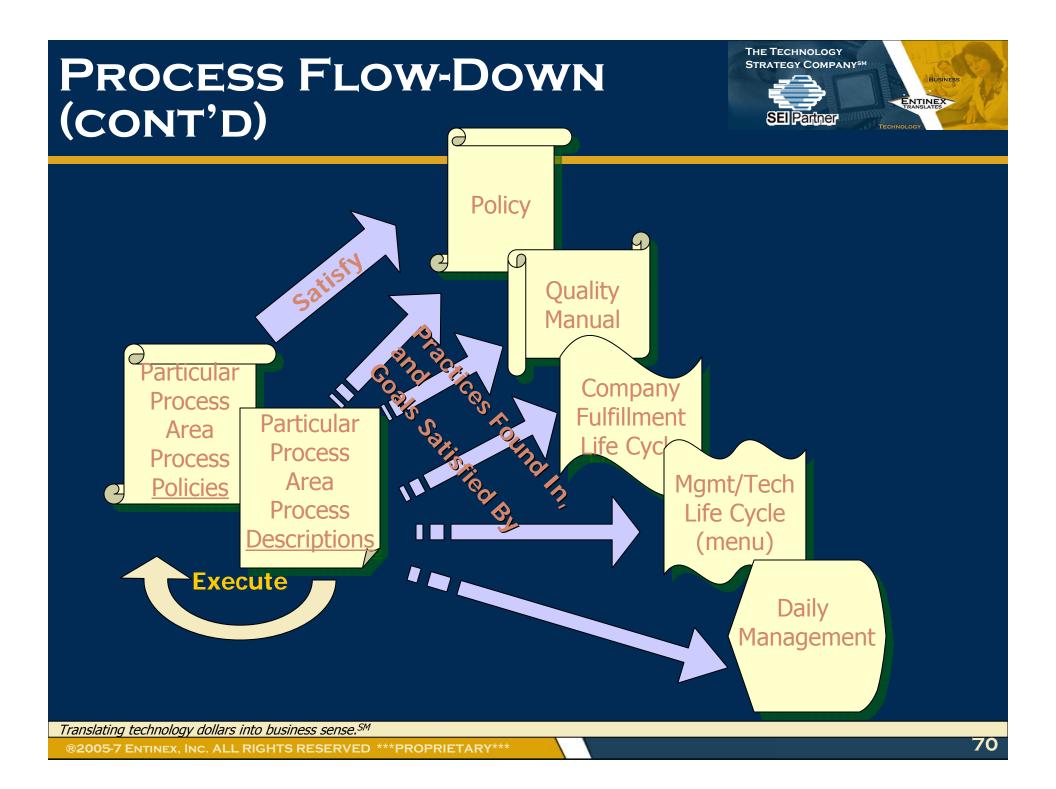
▲ Life Cycle Approach



PROCESS FLOW-DOWN

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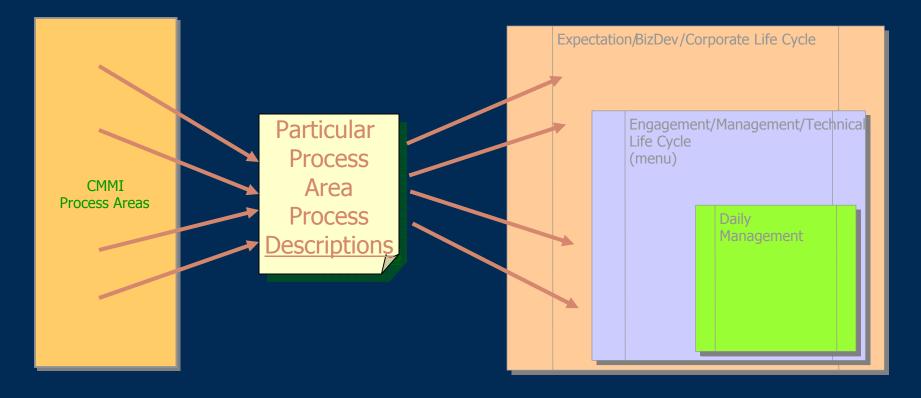




KEY FEATURE



Process definition/description documents define where in YOUR reality practices take place.



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WHAT'S IN THE QUALITY MANUAL?

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▲ Explains how on each project, all company Processes:

- are planned-out and tailored from a single set of company processes
- are assigned as someone's responsibility
- are provided resources to be done
- are assured of having people trained in them
- have their work products configuration controlled
- involve relevant stakeholders
- are monitored & controlled
- are objectively evaluated against applicable standards,
- have performance reviewed with higher management, and
- incorporate lessons learned for improvement



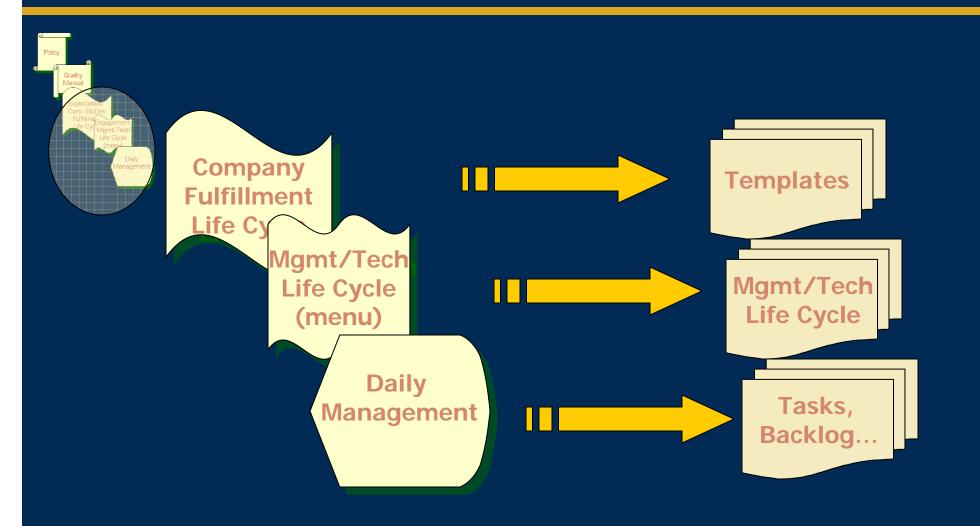


WORK-PRODUCT GENERATION

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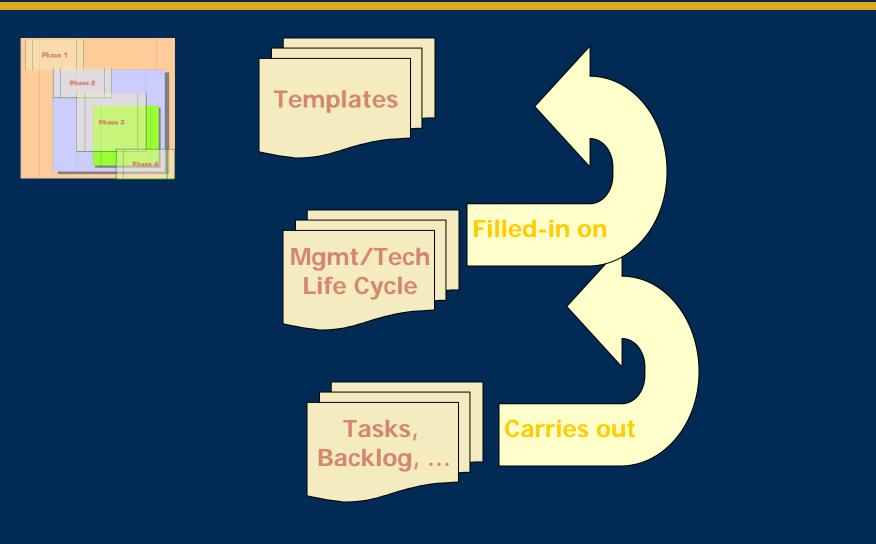


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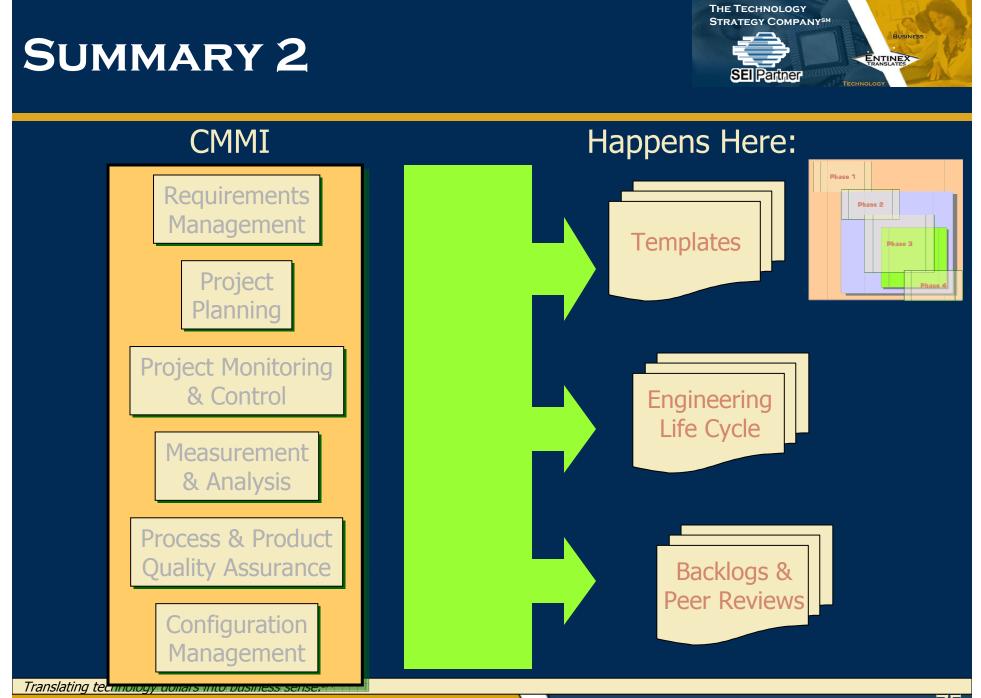
WORK-PRODUCT INTERACTIONS

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WHAT'S NOT HERE

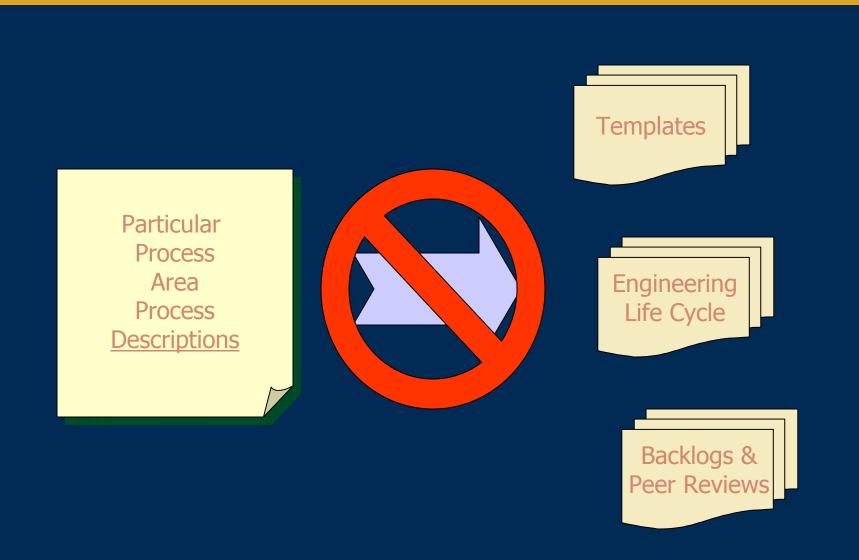
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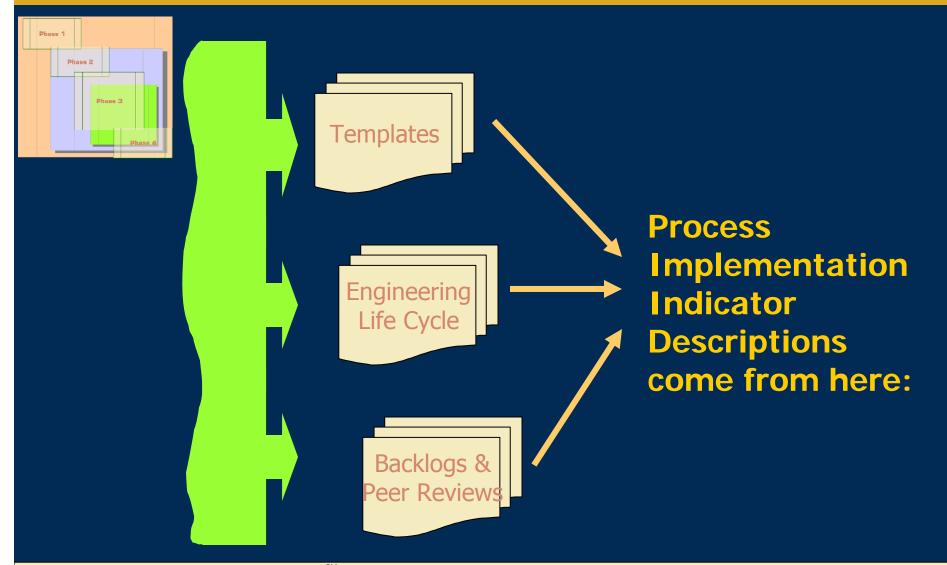


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AT THE APPRAISAL

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Keeping an eye on profit when designing processes.

▲ Ensures processes are not over-designed.

▲ Ensures processes are tied to business needs.

▲ Ensures processes affecting profit are included.

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BENEFITS



▲ Uses realistic life cycles.

▲ Puts recurring practices in one place.

▲ Distributes practices into life cycles.

▲ Invokes relevant practices at their point of use.

 \land Causes lim \land (productivity) \bigcirc 0

Most likely to still be in-place after a time = long-term ROI

SILVER LINING?



▲ Less Disruption and More Productivity Requires:

- More up-front process design.
- Deep understanding of Company Context:
 - Technology
 - Processes/Practices
 - > Culture
 - Project types and style
 - > Customers
- Deep understanding of CMMI.
- Deep understanding of SCAMPI process.
- More work by the appraiser.

▲ Lasting results and *real* ROI require *real* investment and *real* discipline.

APPROACH SUMMARY



Process Silos = Chasing the Needle, or Overlaying a process onto work you're doing for the purposes of generating evidence, thus adding overhead and disruption to productive/billable work. Increased production without necessarily increasing productivity.

▲ Cascading Life Cycles[™] = Designed Processes, or Mapping your "reality" to CMMI. Wherever practices or alternatives aren't done, they are added consistent with value-added productive work.

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DESIGNED PROCESS VS. "CHASING THE NEEDLE"

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▲ Designed Processes

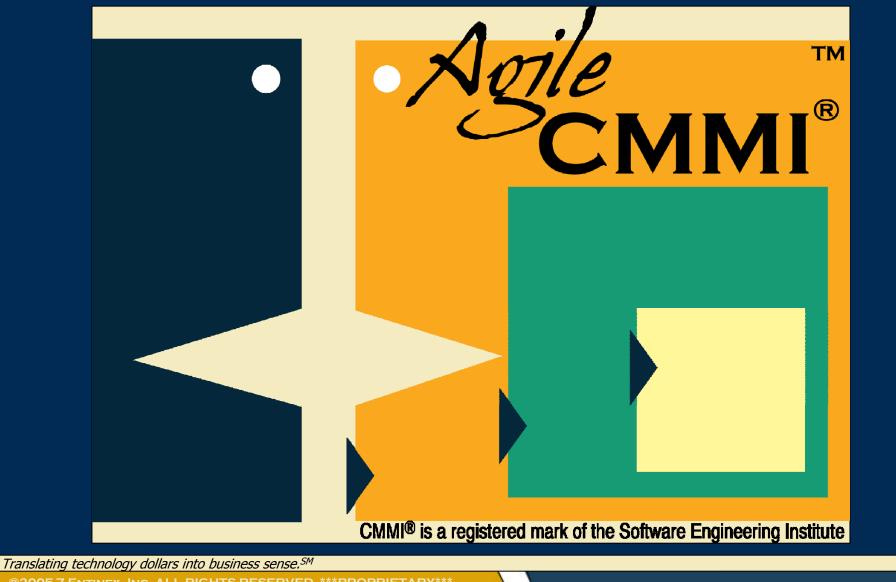
- Lasting Benefits and ROI.
- Can be appraised repeatedly without re-inventing evidence.
- Requires up-front process engineering.
- Requires expertise in CMMI and company's operations.
- Can cost more up-front.
- Establishes foundation of improvement.
- Appraisal simply looks at ordinary output of processes.

▲ Chasing the Needle

- Focused on getting through the appraisal (only).
- Short-term results.
- Requires less expertise.
- Can be cheaper (sort term).
- Each appraisal requires renewed preparations.
- ▼ Staff perceives effort as "make work" w/no value added.
- Difficult to connect appraisal results to actual improvements.
- Appraisal looks at data created just for the appraisal.

WE CALL IT







How we run it & What we look for

How IT WORKS



▲ Start w/a Kick-Off

Explain what we're up to and why

- ▼ Provide CMMI® Crash Course[™] (if needed)
- Describe the Gap Analysis process
- Describe what the Gap Analysis leads-to
- On-site 1-4 days

CONDUCT INTERVIEWS

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▲ Not focused as much on:

- `evidence' as much as on existence or absence of practices
- Not focused as much on process areas as on practices
- ▲ Looking for your "hidden" processes.
- ▲ Starting the search for your underlying process architecture.

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INTERVIEWS TO FIND



- 1. Do you have a written process that calls out a practice and is there indication that you follow it?
- 2. Are you performing a practice even though you don't have it formally defined?
- 3. Neither 1 nor 2.
- 4. It's not formal, and it's not exactly "done" but if you talk a lot and we look in enough haystacks it starts looking like you're doing it.

GAP ANALYSIS OUTPUTS



▲ Gap Analysis report



▲ Road Map

▲ Action Plan

▲ Cost Proposal

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QUESTIONS?

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DON'T FORGET TO WRITE!

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