



Sharing Expertise A Process Driven Approach For IT Projects / Management Carl A. Singer -- www.ProcessMakesPerfect.net

Presentation Outline

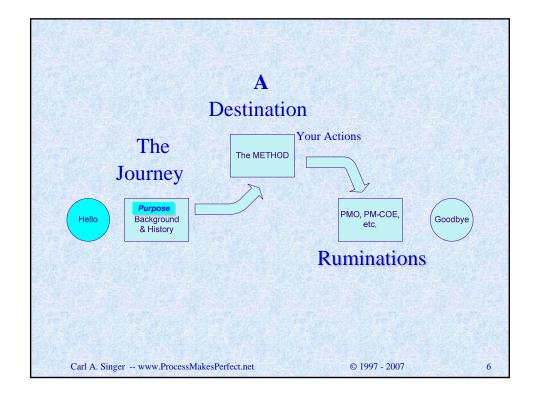
- Purpose
- Background

Foundation

- History
- Solution approaches
 - -The METHOD What YOU can do
 - PMOs, PM-COEs & friends
- + some digressions and diversions

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Purpose

- Of the concepts
- To do things better
 - Shared Intellectual Capital (IC)
 - Process related improvements

Specific to the IT domain

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Purpose

.... Of this presentation

Jeff Sutherland – Agile – Evangelist

- To engage (aka, "tickle") your curiosity
- To help *you* get motivated / started towards building *your* own solutions

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Purpose

.... Of this presentation Carl Singer – PM Process – Advocate

- To engage (aka, "tickle") your curiosity
- To help *you* get motivated / started towards building *your* own solutions

This isn't Shrinkwrap or Turn Key

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Carl's 1st theorem of project teams

All of us together are smarter than any of us alone

- THIS IS BASIS FOR MAKING PROGRESS
- I hope to share some experience and opinion feel free to do the same

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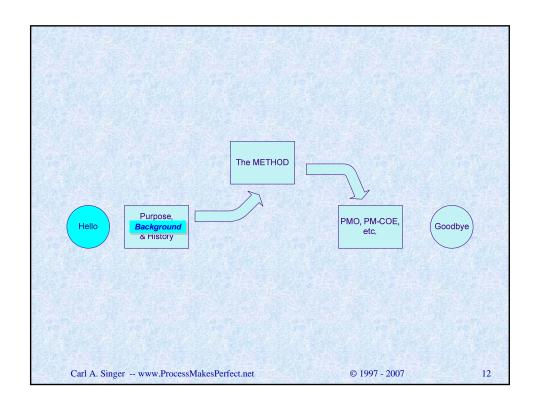
Digressions & Diversions D²

I think this is the most extraordinary collection of talent, of human knowledge, that has ever been gathered together at the White House, with the possible exception of when Thomas Jefferson dined alone.

• John F. Kennedy Remarks at a Dinner Honoring Nobel Prize Winners of the Western Hemisphere. April 29th, 1962

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Background

Background of the Problem / Opportunity

- · Lack of Skills
- Lack of appropriate Skills
- Lack of skills that fit a specific situation
- The inability to do the right job right

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SKILL

skill noun [ME skil, fr. ON, distinction, knowledge; prob. akin to OE scylian to separate, sciell shell — more at shell]

- 1 obs: cause, reason
- a: the ability to use one's knowledge effectively and readily in execution or performance
 b: dexterity or coordination esp. in the execution of learned physical tasks
- 3 : a learned power of doing something competently: a developed aptitude or ability a learned power of doing something competently: a developed aptitude or ability a learned power of doing something competently: a developed aptitude or ability a learned power of doing something competently: a developed aptitude or ability a learned power of doing something competently: a developed aptitude or ability a learned power of doing something competently: a developed aptitude or ability a learned power of doing something competently: a developed aptitude or ability a learned something somet

skill-less or skil•less \"skil-l€s\ adjective skill-less•ness or skil•less•ness noun © 1996 Zane Publishing, Inc. and Merriam-Webster, Incorporated

Merriam-Webster on-line Collegiate Dictionary

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SKILL

the ability to use one's knowledge effectively and readily in execution or performance

a learned power of doing something competently: a developed aptitude or ability

Merriam-Webster on-line Collegiate Dictionary

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"Skills imply the capacity for action toward some application.

As such, much of IC (Intellectual Capital) is prescriptive and attempts to supplement individual skills to achieve a solution or solve a problem.*

* Context-specific Intellectual Capital – the next link in the knowledge chain – IBM Systems Journal, 42-3, 2003

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IC is the "Bionic Brain" of Skill-Based Endeavors ©

"Skills imply the capacity for action toward some application.

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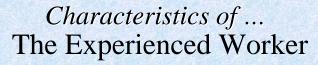
* Context-specific Intellectual Capital – the next link in the knowledge chain – IBM Systems Journal, 42-3, 2003

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Smells Smoke

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Characteristics of ... The SKILLED Worker The IC-enabled worker

- 1. Works more quickly
- 2. Produces better results
- 3. Makes less mistakes
- 4. Is more consistent
- 5. Can do more kinds of work Broader
- 6. Can do more in-depth work
 - re in-depth work

 jetion more quickly

 Deeper
- 7. Senses deviation more quickly
- 8. Senses smaller deviations

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Characteristics of ... The Worker

Communicates Well

WORKS SMARTER NOT HARDER

Has a "can do" attitude

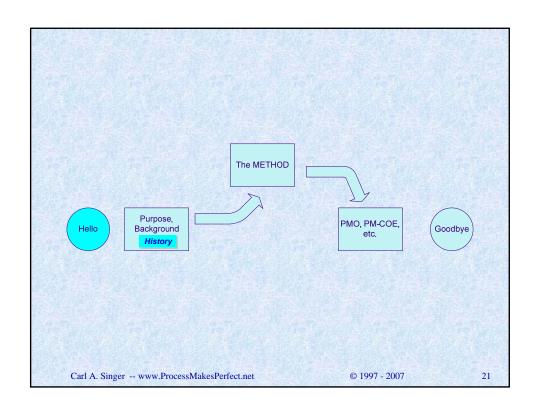
Adheres to Process

YOUR TURN (Audience Participation)

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History

History of Solution Approaches

- IC-related Tools
- Guilds / Trade Schools / Apprenticeships
- OJT On the Job Training
- Mentoring
- Teaming

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"Recent" History

History of Solution Approaches

- ISDOS Information System Design & Optimization System
- Boot Camp / Stay in Step
- Requirements Guidelines & Templates

The Method

PMOs

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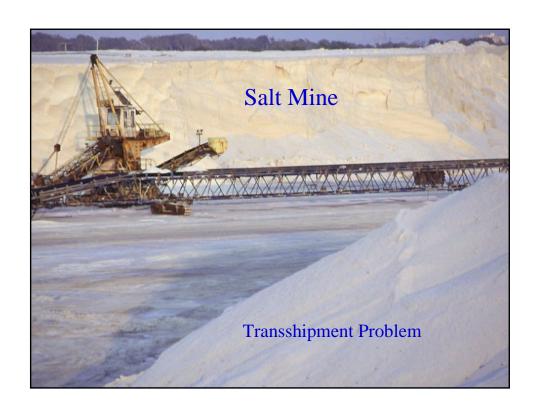
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ISDOS 1965

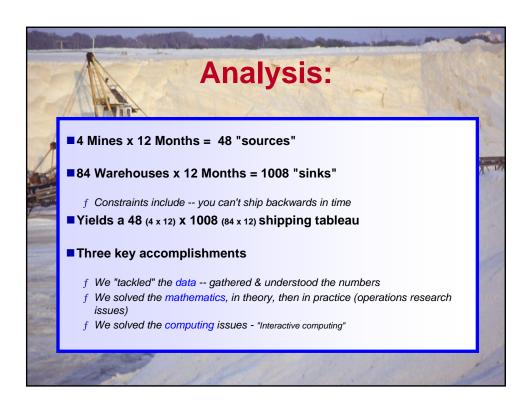
- Information System Design & Optimization System -- Case Tech / University of Michigan
- Dan Teichroew
- IF Fully Describe the System and SDLC Process –
 THEN Generate Systems Design (SODA)
- **PSL / PSA** 1965 → Requirements Statement Language / Requirements Statement Analyzer
- Real Business Problems: Transshipment Problem

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History

History of Solution Systems

- ISDOS Information System Design & Optimization System
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- Requirements Guidelines & Templates

The Method PMOs

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BOOT CAMP

- Bellcore
 - Growth large influx of new employees
 - Specialized SDLC model
 - CMM level 5
 - 4 week intense, off-site class
 - Technical Content, Leadership Message & Motivation
 - Focus on our SDLC
 - "Stay in step" program for "old dogs"



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History

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The Method PMOs

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Requirements Guidelines & Templates

- Bellcore SR-NWT-002159, December 1992
 - A Requirements Tutorial Quality Systems & Software Requirements
- Elements of a Single Requirement
- Requirements Tools
- Structure labeling / hierarchy / links
- Attributes
- Requirements Categories: Explicit / Conditional / Phased

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Elements of a Single Requirement

Technical Content

- Requirements Statement (Text or Language)
 - Requirement (explicit)
 - Recommended Practice
 - Conditional Requirement
 - Constraining Requirement
- Graphics (as Appropriate)
- Attributes Importance / Certainty / Volatility
- Verfication Data Validation, Test Plan
- Structure Decomposition, Trace, Link
- Metrics Function Points / Complexity
- Comments

CHANGE CONTROL

Administrative Content

- Unique Identifier
- · Change / Configuration Data
 - Configuration Data
 - History narrative
 - Board Approval(s)
 - Version / Phase Data
 - Audience
 - Level of abstraction
- Working Notes
 - Meeting Notes
 - Analysis
 - Decision Memoranda
 - Discarded Requirements
- Current Status

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- ILITies

- Availability
- Reliability
- Certainty
- Volatility
-

- Ease of use
- Performance
- Security
- •

Sins of Commission Sins of Omission

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Faster, Cheaper, Better Better Faster Cheaper

- · On Time
- Within Budget
- Achieving Quality Goals

Quality?

• Conformance to Requirements

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Better Faster Cheaper

- Project Integration Management
- Project Scope Management
- Project **Time** Management
- Project Cost Management
- Project Quality Management
- Project Human Resource Management
- Project Communications Management
- Project Risk Management
- Project Procurement Management

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PM is a "soft science"

Quantum Mechanics

- Own Language
- · Own Views
- Observations
- Theorems & Proofs

Teach / Learn T & Ps

Project Management

- Own Language
- Own Views
- Observations
- RoTs & HW
 (Rules of Thumb & Hand Waving)

Share Expertise

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Carl's 1st LEMMA Carl's 1st Lament

• The laws of physics are *not* determined by a management committee and are *not* subject to annual budget review

The "laws" of Project Management are

Projects exist in a business context

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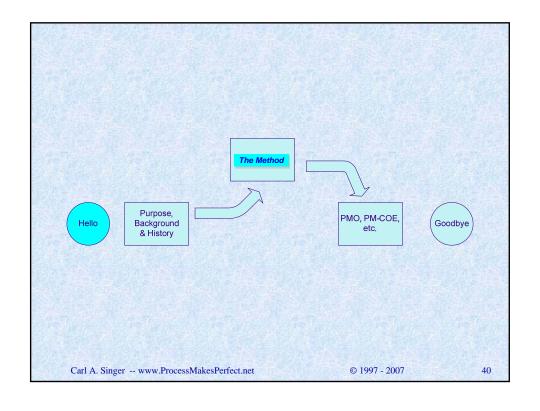
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Sharing Expertise

- Book Learning / Formal Instruction
- Leadership / Mentoring
- OJT On the Job Training / Simulation
- Knowledge Management / Intellectual Capital Management

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Knowledge Management

To be useful

- Relevant knowledge readily available
- Tailored to the task at hand
- Tuned to the user's training & experience
- Enhanced by selectable levels of detail
- Context Specific / Context Aware
- Enabled with supporting templates & guidelines
- Supported by effective navigation tools

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PM - Intellectual Capital

Definitions

Principle: A fundamental truth, rule of conduct or law upon which others is based.

Guideline: A guideline is is: (1) actionable (i.e. it recommends, or recommends against, an action to be taken) and (2) authorized by consensus. Guidelines are not set in stone and should be treated with common sense and the occasional exception.

Policy: Governing principles that apply to the management of the business. A policy is similar to a guideline, only more official and less likely to have exceptions. One should not generally edit policy without seeking consensus first.

Rule: An authoritative regulation, law or established practice by which conduct, methods and procedures are controlled in alignment with stated policies and/or principles.

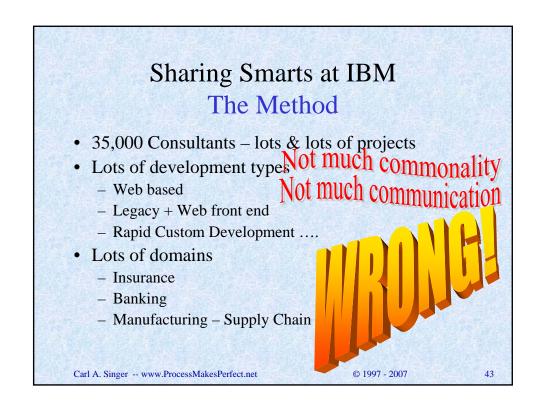
Process: A central and organized way of doing things, generally following certain policies or guidelines (e.g. the "deletion policy" tells us how the "deletion process" works).

Doctrine: the body of principles in a branch of knowledge or system of belief

Methodology: A disciplined accumulation of the above.

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COMMONALITY

- ✓ Planning
- ✓ Requirements
- ✓ Design
- ✓ Testing
- ✓ Staffing

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COMMONALITY

One size does NOT fit ALL

BUT 100 projects do not require 100 clean sheets of paper

Some things CAN be shared

For example,

100 projects may be serviced by perhaps 5 different approaches to gathering requirements 5 << 100

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COMMONALITY

Some things CAN be shared

For example

or ALL projects of a certain type might share a single approach to gathering requirements

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The Method 50,000 Foot View

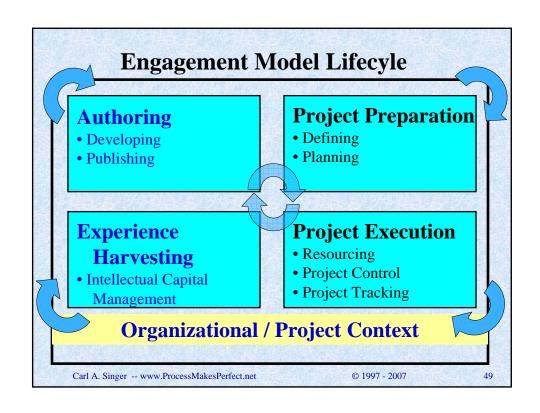
- Engagement models
 - Piece-parts Intellectual Capital for reuse
- Uploading & storing Intellectual Capital
- Locating & downloading Intellectual Capital
- Build Engagement Model Instances (planning)
 - MAW (Methodology Adoption Workshop)
- Project Execution support

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PLAN the work Project Preparation Defining Planning Project Execution Resourcing Project Control Project Tracking Project Tracking



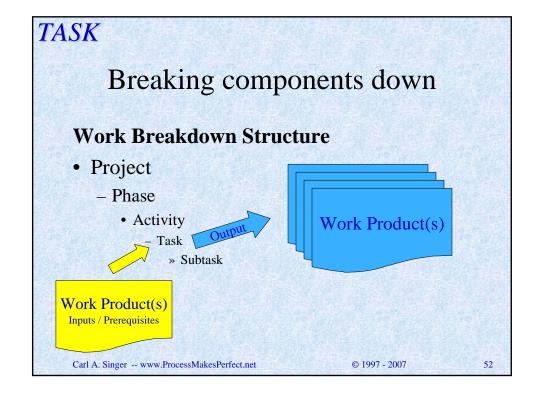


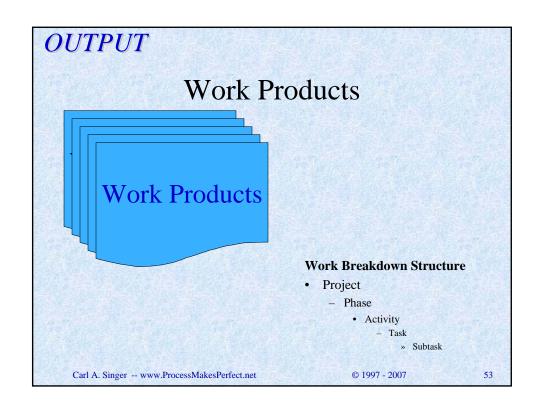
Two Approaches to PM IC

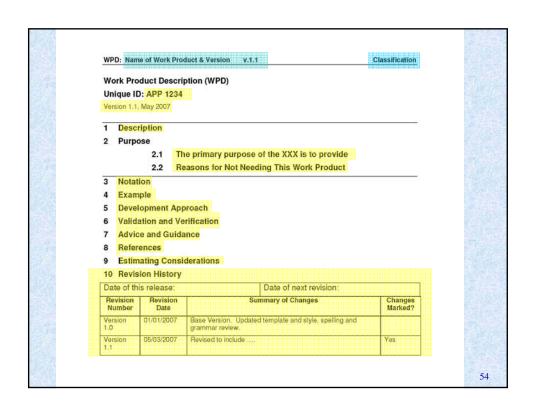
- Task-oriented approach
- Output-oriented approach

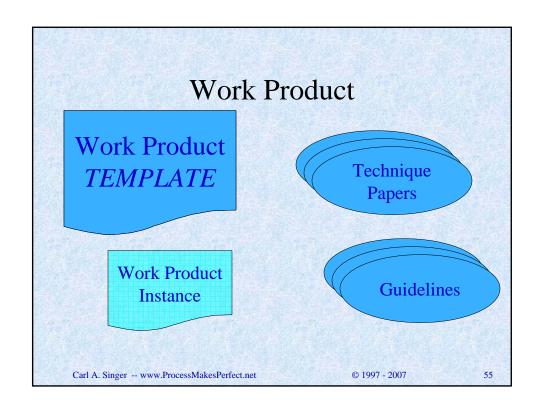
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Leveraging the Method The Software Maintenance Example

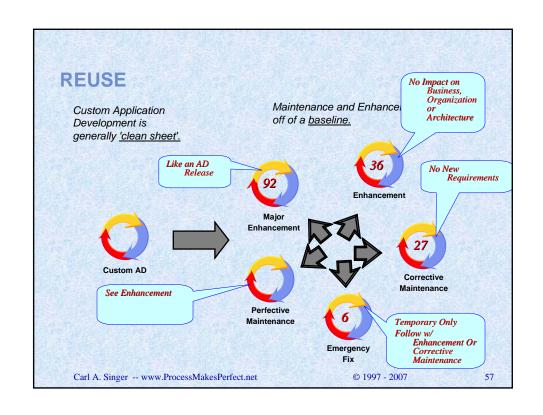
- Many Software Maintenance Engagements
- Some real experts, but much uncertainty
- I located and gathered the experts
 - Scotland, England, Australia & USA

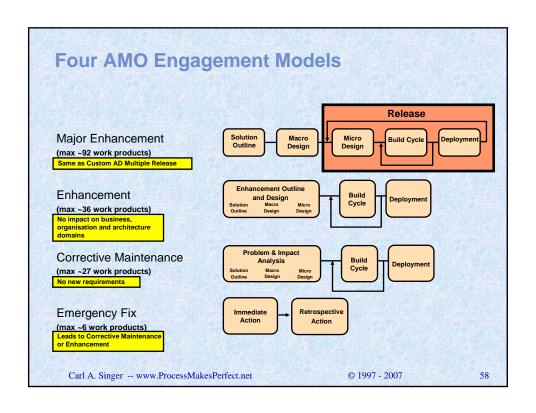
See Leveraging a Worldwide Project Team PM Network Magazine, PMI, April, 2001.

• Key was reuse – How different is SW Maintenance from Software Development?

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Some features

- New engagement family
- Consistent with existing work product based architecture
- •New work products identified:
 - •Baseline Analysis
 - •Impact Analysis
 - Impact Analysis (Emergency Fix)
 - Emergency Fix Design
 - Problem Resolution Report
- New supporting technique papers identified:
 - Working with Use Cases in an Application Development / Maintenance Environment
 - Tailoring Engagement Models in an Application Development / Maintenance Environment
 - •Integration Testing Planning
 - · Construction and Testing
 - Progression from Emergency Fix to Enhancements or Corrective Maintenance

Only 5 WPs to maintain, to learn

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The Method Adoption Workshop (MAW)

- f The MAW is the keystone of method deployment, and requires preparation, education, leadership and follow-on mentoring
- f The MAW is undertaken during Solution Design to position the Proposal and SOW utilizing the Method
- MAWs are undertaken at major engagement checkpoints to accomplish a re-orientation

f Objectives

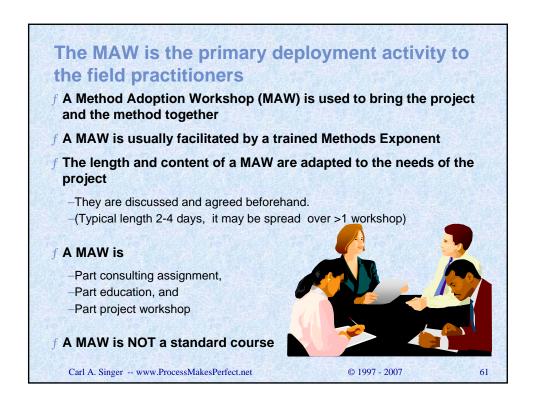
- -Understand the project
- -Tailor the method to project estimation, selecting techniques, tasks and tools
- Define team organization and roles
- Assess risks
- -Assess team skills

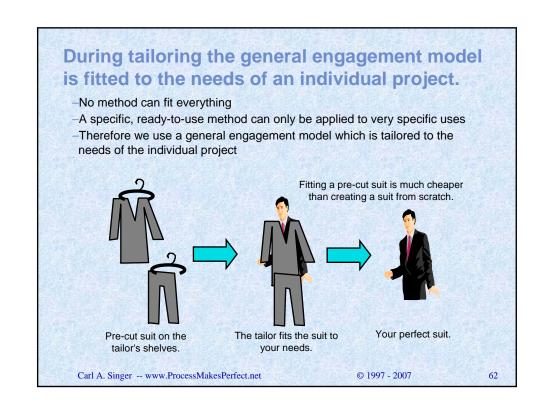
f Results

- Tailored Method
- -Project Plan
- -Risk Assessment
- Resource Plan for the Team
- Log of method exclusions and extensions
- Identified project work products and deliverables

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Individual projects tailor the Engagement Models to fit their specific engagement

- f The different Engagement Models are starting points for tailoring the method for a specific engagement
- f Choose the closest Engagement Model and tailor from there
- f Some engagements may also require components from *other* Engagement Models



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Knowledge Management

- Relevant knowledge readily available
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- Tuned to the user's training & experience
- Context Specific / Context Aware
- Enhanced by selectable levels of detail
- Enabled with supporting templates & guidelines
- Supported by effective navigation tools

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Navigation Tools

- Secure
- · Easy to use
- Provides selection assistance and caveats
- Provides links to related material
- Assembles good starting point

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What Can You Do In This Domain?

- Spend lots and lots of money
- Study your projects identify useful artifacts
- Are they different because they need to be? Or did they just wind up that way?
- Choose some "best of breed" *and* decide where they may or may not apply
- Create an orderly "filing" system

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What Can You Do In This Domain?

If all you do in your first pass is find redudancies – you're already a winner!

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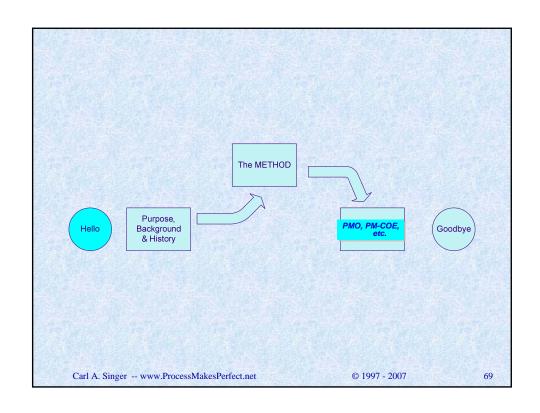
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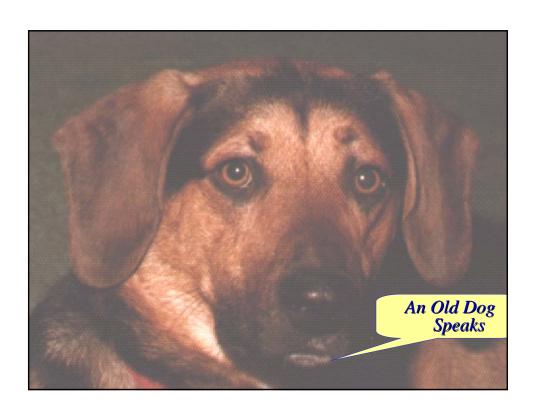
What Can't You Do?

- Buy a turnkey solution
- There's no "EASY" button, This requires heavy lifting
- Make progress overnight
- Keep managing projects as an AD HOC activity
- Insanity is defined as doing the *same* thing over and over again and expecting *different* results

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Building an Effective Project Management Office

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What's a PMO?

(multiple definitions)

- 1. a line organization that manages a single (complex) project
- 2. a line organization that manages or monitors a portfolio of projects and their resources
- 3. a *staff* organization that builds and maintains processes, standards and other project-related intellectual capital used in planning and executing all projects, yet directly manages no projects.

4. = 2 + 3

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PMO

- Managing Project Operations Managing the normal planning, execution and support of (one or many) ongoing projects throughout the entire project lifecycle. These functions will include:
- **Project Execution** managing the day-to-day project lifecycle from some defined initiation point through to a defined completion or hand-off point.
- Single Project Selective Support Planned participation in various critical project support functions.

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PMO

- Multiple / cross-project support (Also called "Project Portfolio Management." or "Program Management")
- Since there may be multiple concurrent projects, there may be a need to perform functions that span or involve tradeoffs among multiple projects or a portfolio or projects. Here is a typical list of such functions.
 - Resource allocation allocating resources among the suite of projects.
 - Status tracking tracking status of all active projects. This may include building a Status Reporting Framework.
 - Parachuting (unplanned) providing emergency resources or special.

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What's a PMO?

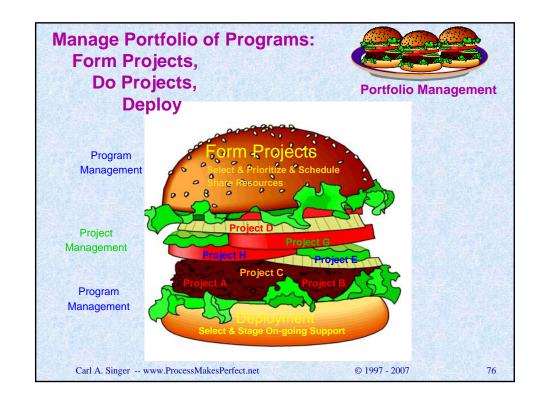
(multiple definitions)

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3 = PM-COE

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Why have a PM-COE?

Motivation: The expected results from having a Project Management Center of Excellence are two-fold:

- 1. There's the general improvement of project performance and
- 2. There's the specific avoidance of the *disastrous* project, one where cost, timeliness, quality and / or customer satisfaction are not achieved.

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Do's and Don't's

- Do not let your PM-COE get isolated from the day-to-day issues that impact your project managers – encourage candid communications and cross-pollination.
- Do not let your PM-COE get so caught up in the day-to-day turmoil that it loses its vision and becomes simply a Project resource pool. (Measure how much time PM-COE actors are spending (fighting fires?) on specific projects versus other activities.)
- Integrate independent Project Quality Assurance (PQA) into all project plans and all projects
- Reach out do not be a passive "service window" but a proactive agent.
- · Make sure that your PM-COE attacks issues, not people.
- Do not measure your PM-COE based on utilization or other operational metrics this
 will lead to bad choices by all. What gets measured gets managed. What gets
 mismeasured gets mismanaged.
- Constantly seek feedback, both good and bad. Maintain avenues of communication with all project-related organizations.
- Don't be a free resource The savvy project managers will suck the marrow out of any free resource.
- Rotate a few experienced Project Managers in and out of the PM-COE every few years the PM-COE should not become a sheltered workshop for tired project managers.
- Avoid NIH (Not Invented Here) at all costs. Together we are all smarter than any of us alone. The "field" has insights and solutions that are waiting to be harvested.

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PMO-like things to do

- 1. Develop, facilitate and provide shared **intellectual capital** to support projects.
- 2. Build **peer support** network for informal, ad hoc, peer-to-peer communication.
- 3. Provide generic **project lifecycle reference guides** and **how-to's.**
- 4. Provide related **training and mentoring**.
- 5. Provide support for RFP response Estimation & Risk
- 6. Provide **project initiation support project kick-off support** *MAW*
- 7. Provide project execution support to include tools

Greatest opportunity / risk when project is leaving the starting gate

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PMO-like things to do

- 8. Provide the **quality assurance / quality audit** function. (This is *not* testing!)
- 9. Oversee touch points, gates and other **project decision points**.
- Build / install project "dashboard" facility to monitor project performance against plan.
- 11. Provide Program / Portfolio management capabilities
- 12. Provide archive / repository for project artifacts (for completed Projects)
- 13. In conjunction with Technology Services provide onrequest technical support. (conduit)
- 14. Provide project deployment support on planned and / or emergency basis. (conduit)

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Carl's Top Ten List Digressions & Diversions D² You know the project is in trouble when:

- 10. You come in Monday morning and find several wastebaskets filled with empty Pizza Boxes (or little packets of Soy Sauce are everywhere)
- 9. You see 4 or more people in a cubicle huddled around a workstation and they're not singing "Happy Birthday"
- 8. NO one can tell you who's intellectually in charge --- Or there is no one who is in charge, intellectually.
- 7. Coding is ahead of design, Design is ahead of specs, Testing keeps muttering about requirements
- 6. The customer is distancing himself / herself from the project
- 5. Everyone is in catch-up mode.
- 4. You cannot map function to requirements
- 3. The Tuesday Wall Street Journal keeps disappearing.
- There is one indispensable person (maybe two) who seems to hold the key to all knowledge and goodness
 -- and you haven't fired him/her.
- 1. David Letterman has asked you to audition for "stupid pet tricks"

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Seven Characteristics of Highly Successful Projects

- 1. A positive relationship with an active, intelligent client
- 2. Strong project management
- 3. Clear requirements, well managed
- 4. Ruthless change management
- 5. Pervasive process focus
- 6. Effective controls and communication
- 7. Technical leadership and excellence

The critical next step, an honest self analysis of projects. An analysis based on these seven criteria is something that a PM-COE should consider as part of its continuing process improvement.

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1 - A positive relationship with an active, intelligent client

- Stay in your sweet spot
- Win-win contract & realistic project plan
- Effective escalation procedures
- Build / maintain positive relationship
- Seek clients with a history of success
- · Client decisionmakers who are actively engaged

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2 - Strong Project Management

(roles)

- Project Manager
- Technical Manager
- Schedule Manager
- Resource Manager
- Contract Manager
- Configuration Manager

- Change Manager
- Build Manager
- Data Manager
- Requirements Manager
- Documentation Manager
- Customer Relationship Manager (Stakeholder Relationship Manager)

Technical leadership should *not* have to make resource / business decisions

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3 – Clear Requirements, Well Managed

- Clear, unambiguous, well-documented Requirements in a database
- Requirements review board
- If pre-existing requirements review to assess their quality

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4 – Ruthless Change Management

- Change Manager / Change Review Board
- Baseline
- Scope creep kills projects!
- Any / all changes via change control process
- Changes cost money
- Churn thwarts project success
- Not all changes reflected in billing

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5 – Pervasive Process Focus

- All processes are well documented & in place
- Process steps produce auditable outputs
- No process shortcuts
- Accurate measurement is key
- Do not abandon process in times of trouble

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6 – Effective Controls & Communications

- Seize the initiative
- Bad News does not get better with age
- Build & maintain relationships & communications with all stakeholders
- Stay on message
- Maintain current project status
- Haste makes waste & leads to poor decisions

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7 – Technical Leadership & Excellence

- You need a technical lead who is not the PM
- Technical excellence requires stable products
- Technical excellence requires stable platforms
- There is risk when relying on technology that is not fully in place and stable
- Internal escalation process for technical issues

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Seven Characteristics of Highly Successful Projects

- 1. A positive relationship with an active, intelligent client
- 2. Strong project management
- 3. Clear requirements, well managed
- 4. Ruthless change management
- 5. Pervasive process focus
- 6. Effective controls and communication
- 7. Technical leadership and excellence

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Thank you!

Notes: Cartoons have been removed. To reduce the number of slides, some simple overlays have been placed side by side on a single slide rather than on multiple slides.

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