

Balancing Cost, Schedule & Quality The Eternal PM Conundrum

For panel discussion w/
Don Shafer, Pete Collins, Brenda Hall,
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Linda Shafer, Steve Teleki



The Genius of the AND!

✓ Provocative assertion by Jim Collins in "Built to Last" sets the stage:

End the Tyranny of the OR!

✓ AND is the right mindset!

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Borrowing from Tom Peters!

- ✓ Never accept a problem as given:
 - » Reframe the problem!
- ✓ Original problem:
 - » How do we balance cost, schedule, and quality? The eternal PM conundrum.
- ✓ Reframed problem:
 - » How can we achieve: Low Cost AND Short Schedule AND High Quality?

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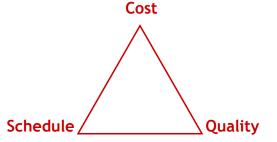
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Thinking Outside of the Box

✓ Traditionally we always look at the triangle



✓ We know enough about this problem that we may not be able to solve it this way.

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Low Cost AND Short Schedule AND High Quality? YES!

- ✓ Low Cost
 - » We offer our Clients the opportunity to combine local and overseas talent into their teams.
- ✓ Short Schedule
 - » We recommend to use as many people on the team as the problem can bear.
- ✓ High Quality
 - » We continually train our developers and keep them engaged to take personal responsibility.

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The Individual is the Key

- ✓ Better people create better software.
 - » The quality of the people is still the most important factor according to Barry Boehm, author of *Software Engineering Economics*.
- ✓ Equip all participants in the software development process with the necessary skills to improve their own software development skills.
- ✓ Teach them how to self-improve!

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Research vs. Development

✓ Research:

- » You have to invent something new, that has never existed.
- » It can only be time limited. When the time is up, evaluate the situation and make a decision: decide whether to continue, or to seek an alternative solution.

✓ Development:

- » You have to use existing technology, or implement a new invention.
- » Can be planned & scheduled since it has been done before.
- ✓ If you are doing "library research" then say it so. This can be scheduled.

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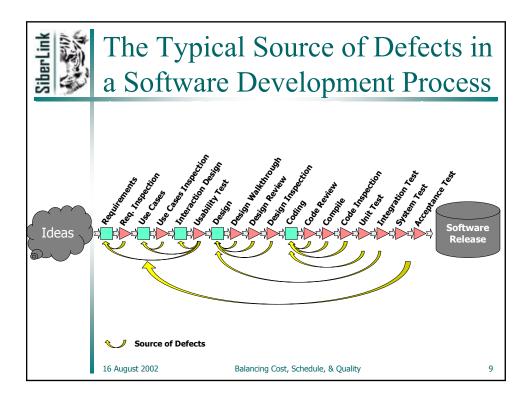


Component-Based Development

- ✓ Decompose the problem into a set of cooperating components.
- ✓ Assemble your software from high-quality components.
- ✓ If you can write high-quality components, then you have a chance of creating high-quality large programs.

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The Benefits of a Disciplined Personal Process

- ✓ Less defects in each person's work.
- ✓ Better understanding of what is needed to complete a project. Each person can tell management or the Client when he/she needs more information to finish the work.
- ✓ Better estimation skills so we can make commitments that we can keep. In turn the business can make—and keep—commitments as well.
- ✓ Better project tracking skills. Increased visibility into the project status.
- Caveat: Personal productivity will drop in the short term as each person is learning a new way to work. It takes time to became expert in a new skill.

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Closing Quote

"If things seem under control, you are just not going fast enough."

-Mario Andretti, race-car driver

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Thank You!

✓ Contact Information

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For a comprehensive software development reading list please visit: http://pseng.net/

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