



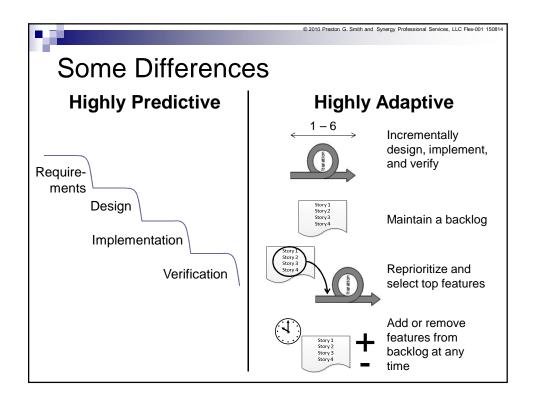
Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

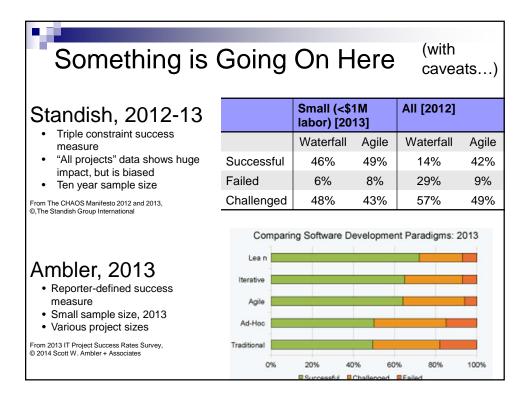
Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

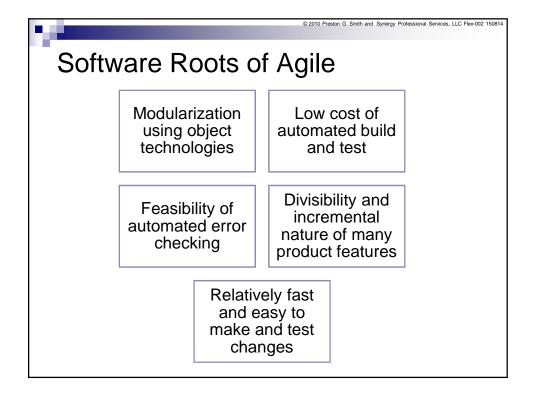
That is, while there is value in the items on the right, we value the items on the left more.

© 2001 by Kent Beck, Mike Beedle, Arie van Bennekum, Alistair Cockburn, Ward Cunningham, Martin Fowler, James Grenning, Jim Highsmith, Andrew Hunt, Ron Jeffries, Jon Kern, Brian Marick, Robert C. Martin, Steve Mellor, Ken Schwaber, Jeff Sutherland, and Dave Thomas

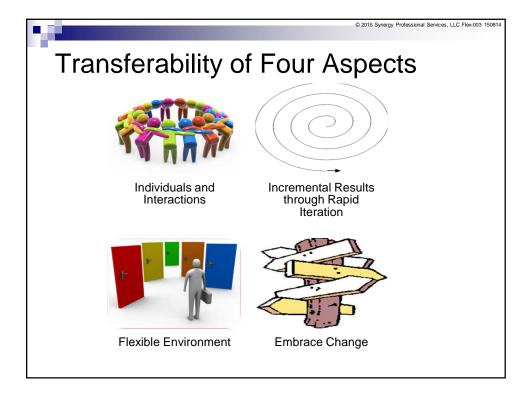










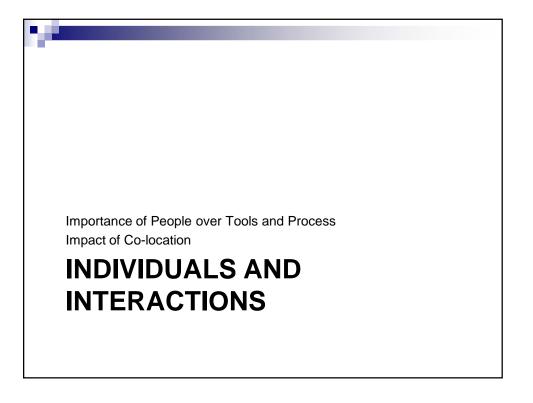


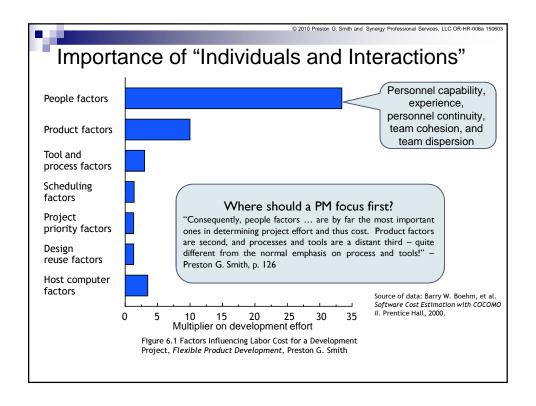
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Select Project for Exercises

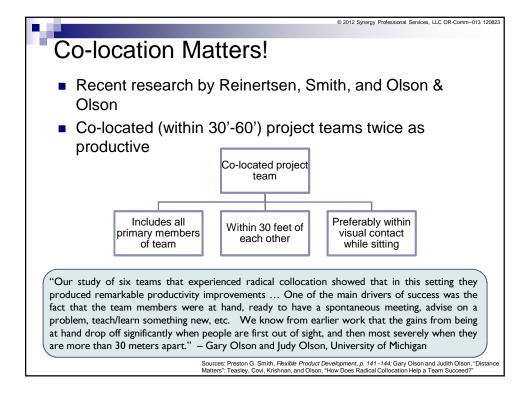
- 1. With your neighbor, select a non-software project or sub-project that one of you will be starting soon.
- 2. Assume you will be the project managers of this project.
- 3. Brainstorm what aspects of it might benefit most from an agile emphasis.
 - a. Individuals and interactions
 - b. Incremental results
 - Flexible environment
 - d. Embracing change











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How to Co-locate a Distributed Team

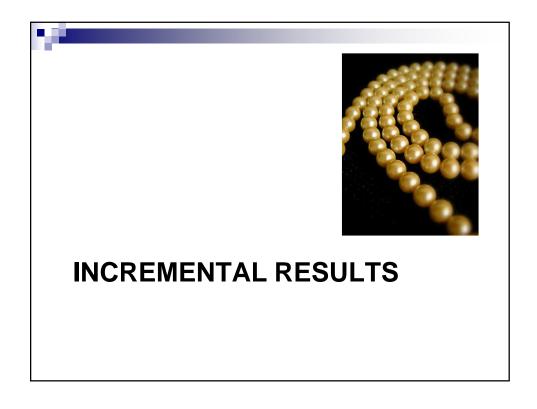
- Expect initial resistance
- Co-locate key sub-teams and sub-projects
 - Who are in the same metro area
 - Who will have heaviest communication links (use directed graphs to detect links)
- Adjust product architecture
 - a. Co-locate sub-teams and sub-projects working on the same architectural modules
 - b. Minimize long-distance communication interfaces
- 4. If you can co-locate for only part of the project, do it initially

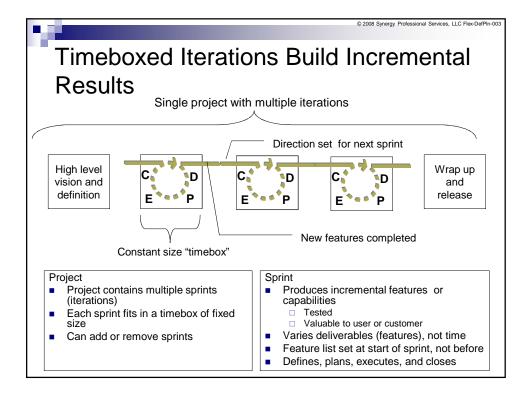
'It [co-location] can be unpleasant. If your neighbor did not take a bath, you will be aware of it. ... [Researchers found] that participants are reluctant to try colocation at first, but after experiencing it , they readily see its advantages." -

Preston G. Smith, Flexible Product Development

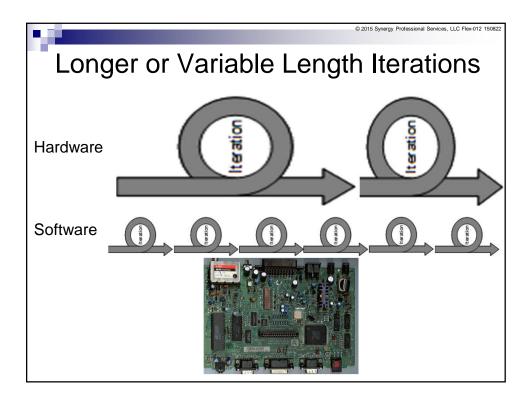
"I am happy to spend 70 percent of a project's travel budget up front to get people working face to face early in the project; it pays dividends later." - Mike Griffiths, Quadrus Development (quoted by Smith)

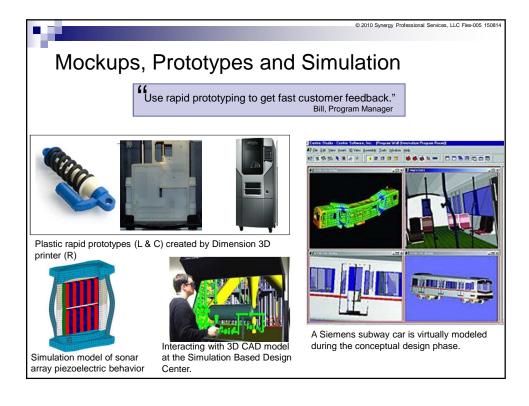














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People, Teams, and Iteration Exercise

- Group A Identify the key people and skills for your project team. How will you get them onto your team and in the right roles?
- Group B Identify two ways that you can build iteration into your project.
- Group C How can you get your team members co-located, or if that is not possible, handle the dispersion as best as possible?



CREATE A FLEXIBLE PROJECT ENVIRONMENT



Buy Options





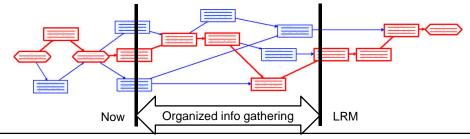
- Slip schedule
- 2. Guess the winner
- Design more expensive multicamera interface

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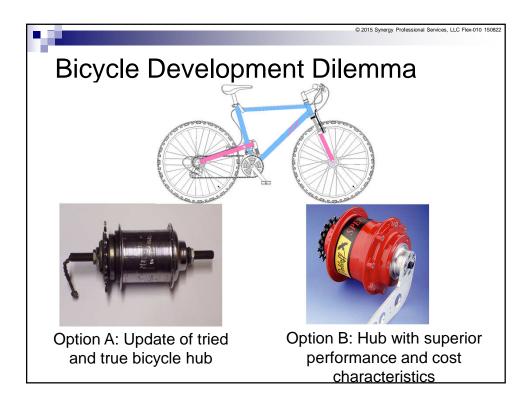
Delay Critical Decisions to LRM

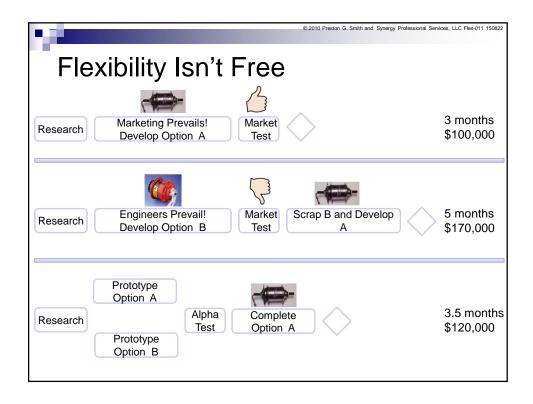
Last Responsible Moment is the point at which:

- 1. An important decision option expires
- 2. Important sources of information or assistance become unavailable
- 3. Decision goes onto the critical path
- 4. Risk increases substantially if decision delayed
- 5. Expense of carrying decision increases greatly

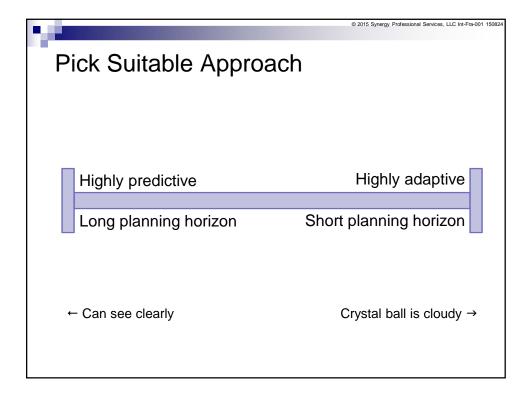












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Project Environment Exercise

- Group A What options could you buy that would benefit your project?
- Group B Identify an important and open future decision on your project. What are the key considerations for determining when the last responsible moment will occur?
- Group C Identify an important and open future decision on your project. What information will you need to obtain to make this decision at the last responsible moment and how will you obtain it?



EMBRACE THE INEVITABILITY OF CHANGE

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Specify Differently

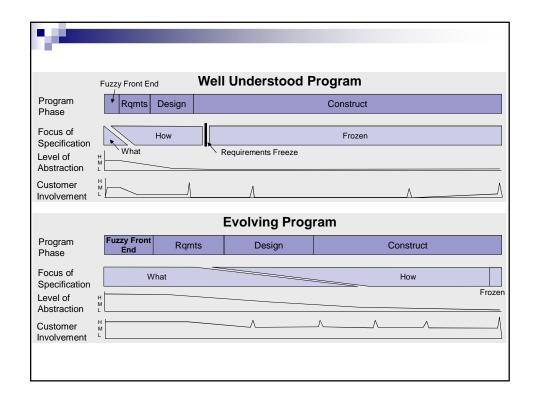
Agile techniques: product vision, personas, epics, user stories

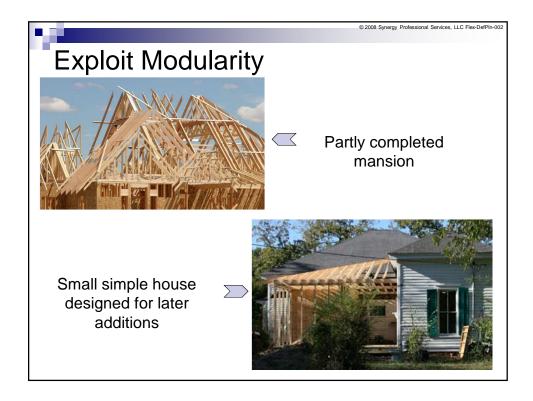
- 1. What rather than how
- 2. Stay at higher level longer



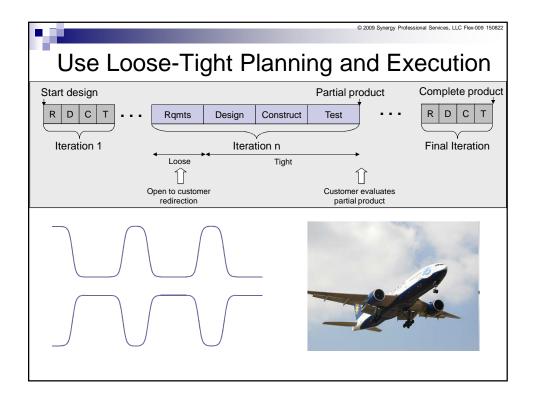
Original 1988 HP DeskJet

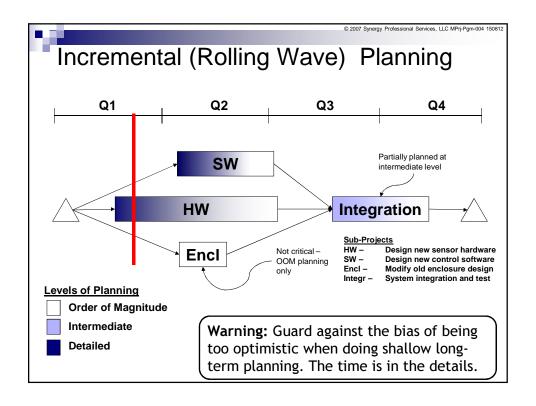




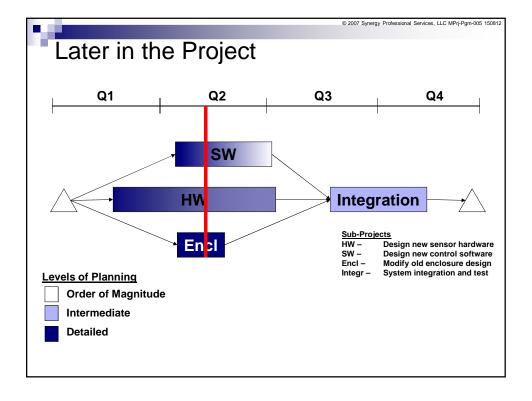












Flexible Techniques Exercise

- Group A How do you plan to deal with the inevitable changing requirements on your project?
- Group B How can you apply rolling wave planning to your project? What obstacles do you anticipate?
- Group C Identify aspects of your project that would benefit from a loose-tight approach.





Seven Transferable Techniques

- 1. Put people and the team first
- 2. Apply flexibility selectively
- 3. Plan to iterate
- 4. Keep your options open
- 5. Expect product requirements to change
- 6. Plan the project expecting change
- 7. Manage project risk continually





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