

**AGILE**

**Make Subversion Agile in a Distributed Development Environment**

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WILEY  
DISCOVER SOMETHING GREAT

### Agenda

- Agile Basics
- How SCM Enables Agile Teams
- Distributed Agile Challenges
- Review

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### Agile and SCM

- Communication
- Collaboration
- Feedback
- Agile and SCM establish a framework to
  - Enable focus
  - Eliminate distractions

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Agile Manifesto

- **Individuals and Interactions** over Processes and Tools
- **Working software** over Comprehensive Documentation
- **Customer Collaboration** over Contract Negotiation
- **Responding to Change** over Following a Plan



*Good SCM is essential for Agile Software Development*



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What is Agile?


- Incremental and Iterative
  - Feedback, Adapt
  - Focus on delivering value
- Self-Organizing Teams
  - Commitment
  - Communication
- Working Code
  - Tests
  - Integration
  - Private Workspaces

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Agile is...



- Values:
  - Communication
  - Feedback
  - Working Code
- Tools:
  - Continuous Integration
  - Version Management
  - Automated Testing



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Software Configuration Management


- SCM Functions
- SCM & Agile Teams


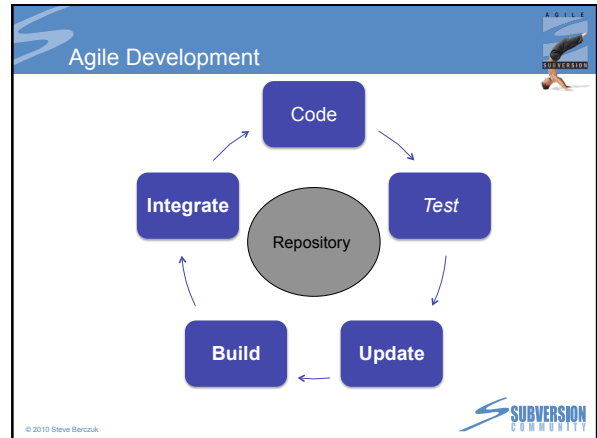
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## What is SCM?

- **Functions:**
  - Identification
  - Control
  - Status Accounting
  - Audit and Review
- **Activities:**
  - Getting Code
  - Building
  - Branching and Merging
- **Communication**
- **Working Software**




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## SCM & Agile Teams

- Coordination
  - Version Management
  - Build Management
  - Testing
- Essential Function with Low Overhead


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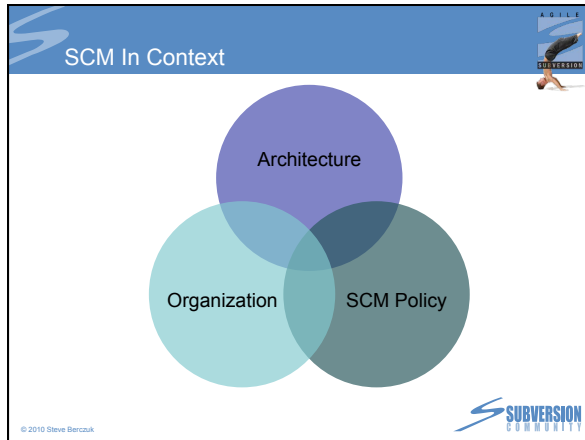


## Distributed Teams

- Challenges
  - Communication
  - Feedback
- Integration
- SCM tools and processes can help

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- ### Distributed Agile Success Factors
- Project Management
    - Shorter Sprints
  - Engineering Practices
    - Integrate Frequently
    - Test
  - Review and Retrospect
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- ### Tools
- 
- A black and white photograph showing a hand reaching into an open metal toolbox. The toolbox is filled with various tools and equipment.
- Tools Help
  - Process/Workflow First
  - Qualities
    - Fast
    - IDE Integration
    - Issue Tracking Integration
    - Build Integration
    - Automation
  - People are Human
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- ### Summary
- SCM Tools and Practices Enable Agility
  - Distributed Teams -> Communication Challenges
  - Version Management & CI are communication
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More Info

- *Software Configuration Management Patterns: Effective Teamwork, Practical Integration*  
by Steve Berczuk & Brad Appleton
- *Continuous Integration: Improving Software Quality and Reducing Risk*  
by Paul Duvall and Andy Glover
- CM Crossroads: [www.cmcrossroads.com](http://www.cmcrossroads.com)

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