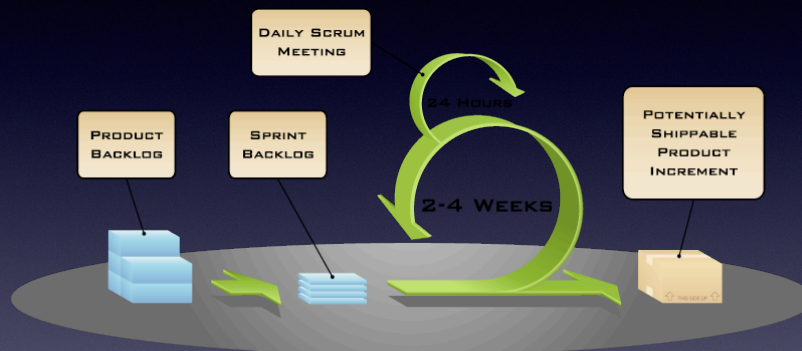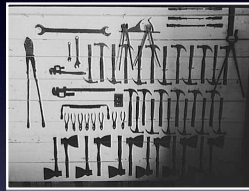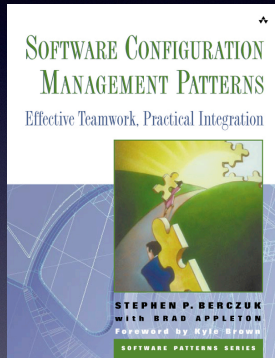# Agile Enablers

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Agenda

- Agile Overview

  - Why, What, Key Practices

- QA and Release Engineering

  - Role in Agile Adoption
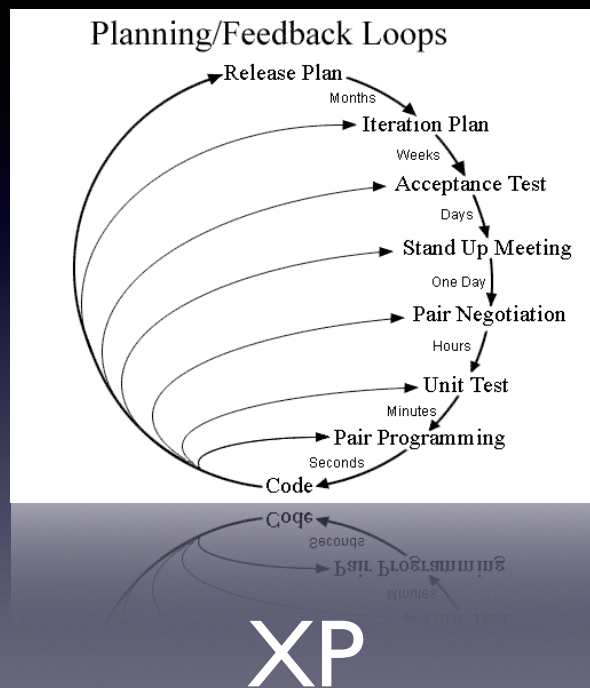
- QA in Agile

  - QAs Evolving Role

Steve Berczuk

Agile

Planning/Feedback Loops

Release Plan
— Months —
Iteration Plan
— Weeks —
Acceptance Test
— Days —
Stand Up Meeting
— One Day —
Pair Negotiation
— Hours —
Unit Test
— Minutes —
Pair Programming
— Seconds —
Code

Don Wells
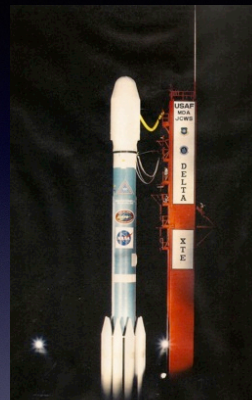Creative Commons Lic.
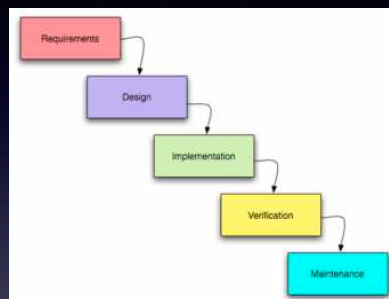from WikiPedia

XP

Agile Manifesto (Values)

- **Individuals and interactions** over processes and tools

- **Working software** over comprehensive documentation

- **Customer collaboration** over contract negotiation

- **Responding to change** over following

Traditional SW Dev

Testing at the End

Feedback

Tracking

Supporting Functions

- Build
- SCM
- Retrospectives

Agile Practices

- Unit Testing
- Time Boxes
- Tracking (Burn Down)
- Sprint Reviews

Agile Enablers

- End to End Features
- Generalizing Specialists
- Measurable Goals
- Working Software
- Incremental Approach. (YAGNI)

Working Software

- Buildable
- Deployable
- Passes Automated Tests
- Does "something"

QA Enables: Start

- Verify that Code is Deployable
- Verify that Stories are Testable

Measurable Goals

- Definition of Done

QA Enables: Middle

- Help Define Done (can I test this?)

- Verify done during a sprint

- Automate Integration Tests

Automation

QA Enables: Forward

- Automate Integration Testing

  - Feedback to Configuration

- Discover gaps in developer testing

- Discover gaps in requirements

Traditional QA Roles

New QA

- QA Tests
- QA Requirements

Summary

Questions