
NJ SPIN
Agile Development with SCRUM
Experiences with Organizational Transition to
Agile
October 24, 2012

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SCRUM Basics

What is SCRUM about?

- Communication
- Small, integrated, focused team
- Incremental development
- Customer focus
- Minimize “WIP”

“Do what makes sense!”

SCRUM Roles

- Scrum Master
- Product Owner
- Scrum Team

SCRUM Product Backlog

- Prioritized list of “stories”
- Maintained by Product Owner
- Each story includes:
 - Scope
 - Estimates
 - Acceptance criteria

Process Flow

- Sprint planning
 - Pick ‘N’ stories
- Daily SCRUMs
- Mid-sprint backlog review
- Sprint review & retrospective

SCRUM Vocabulary

- Daily Scrum / stand-up
- Product Backlog
- Sprint
- Sprint Backlog
- Release Backlog
- Story
- Partially Shippable Product Increment (PSPI)
- Burn down (up) charts
- Generalized Specialist
- Ceremony
- Velocity
- Planning poker (Scrum poker)
- Definition of Done
- ScrumBut
- Technical debt

Agile Practices

- Test automation
- Pair programming
- Continuous integration
- Test driven development
- Et.al.

Barriers to Organizational Transition

- People
- Lack of “change leadership”
- Legacy processes
- Geographic diversity
- Interrupts
- Inexperience & skills investment

Motivation!

Crossing the Chasm

- People
- Leadership by example
- Triage layer
- Reducing external dependencies (team ownership)

Success!

Considerations

- Applicability (business, environment)
- Leadership support
- Team training
- Cross-discipline teams
- Team stability / team member rotation
- Keep it simple (KISS)
- Tools

Wrap-Up

Project development is a TEAM sport

Agile development is a culture change

Do what makes sense!