

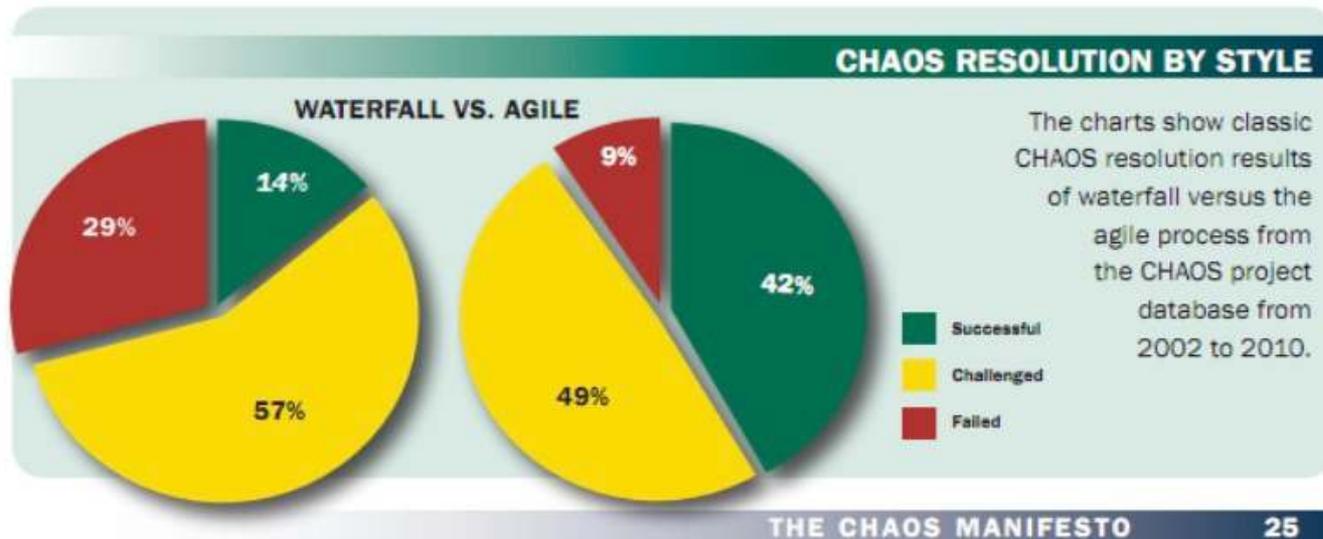
Getting to Done

The Secret Sauce of High Performing Teams



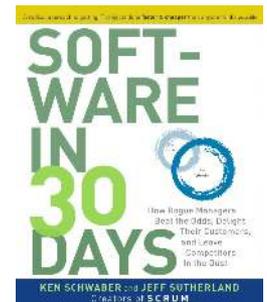
Hosts: *Lowell Lindstrom*
Jeff Sutherland

Is Your Project Agile?



49% of Agile is “Bad Agile”

Source:



What is the Primary Reason for “Bad Agile”?

- **Failure to implement the 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*
- **Teams do not work together** to produce working software at the end of a sprint!
- Teams cannot respond to stakeholder feedback at the end of a sprint because the software doesn't work!
- Fixing bugs later can mean 24 x more testing!

Wannabe Agile



Why Is It So Important to Have Working Software?

- ScrumInc provides agile coaching to Openview Venture Partners (since 2006). All employees are on Scrum teams and all portfolio companies do Scrum.
- After running thousands of sprints, OpenView investors did a detailed analysis of data in Scrum tooling and discovered:



**Teams That Finish
Early Accelerate
Faster!**

Why Don't Teams Have Working Software



- Poor definition of DONE
- Stories not READY
- Dysfunctional leadership
- Technical debt
- Ineffective coaching

Source: ScrumInc/VersionOne Workshop 14 Oct 2014

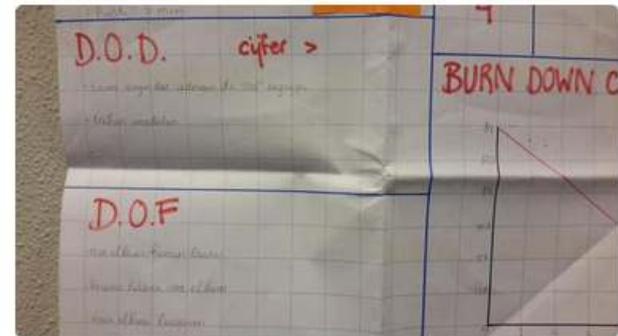
Poor Definition of DONE

- **Definition of DONE unclear**
 - It is impossible to be DONE if you don't know what DONE is.
- **Lack of consistent quality standards**
 - Definition of DONE does not include "working software".
 - Dysfunctional Product Owner accepts stories that are not done.



Ward Bergmans
@wardbergmans

Besides a Definition of Done, #eduScrum has a Definition of Fun! :-) #xpdays
pic.twitter.com/IIY1wxFhvf



Followed by Jacco Rademaker, martin wolters and Geert Bossuyt.

Stories Not Ready

- **Sizing stories**

- Bad estimates - inconsistent use of story points
- Taking stories too big into sprint
- Taking too many stories into sprint

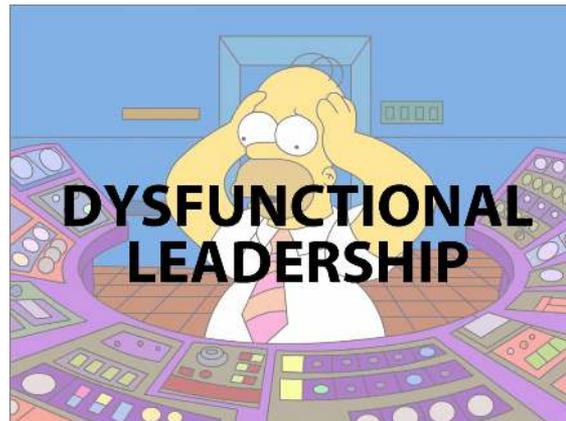
- **Poorly written stories**

- Stories not clear, particularly acceptance criteria
- Unidentified dependencies



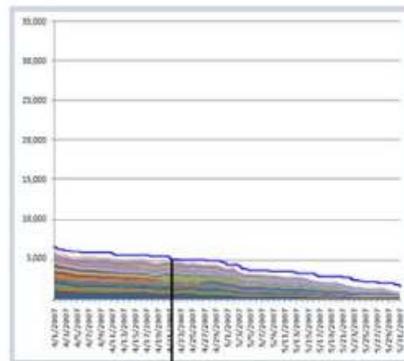
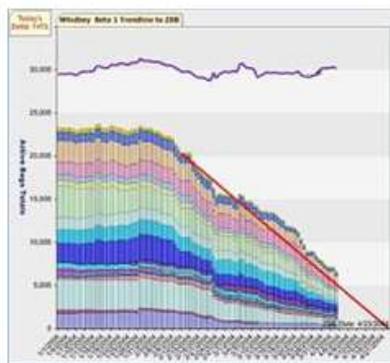
Dysfunctional Leadership

- Too many projects in pipeline (Context Switching)
- Everything is top priority
- Pressure to get things done delays projects and reduces quality
- Lack of understanding of Scrum
- Fear of exposure or change in responsibilities
- No continuous integration and/or no testing at all (Obamacare)



Technical Debt

- Not finishing sprints creates bad code - 24x delay
- Legacy code is often accumulation of mountain of technical debt which reduces velocity
 - Severely aggravated by not using current technology for continuous integration and automated testing
 - Technical debt is incurred by running development too close to maximum which generates short cuts, lack of refactoring, loss of creativity, demotivation, and sloppy craftsmanship



Total bug debt at Beta 1 of VS 2008.

Microsoft TFS Mountain of Technical Debt - Scrum reduced bugs from 30000 to 2000 - Agile Software Development with Vision Studio, 2011

Poor Coaching

- Silo's and specialization cripple velocity
 - specialized test teams are the worst example
- Developers not functioning as a team
 - minimal collaboration, no swarming
- No continuous improvement flatlines velocity
 - no happiness
 - no interrupt pattern
 - no scrumming the scrum
- "Pretend Agile" - no teamwork, no working software, no customer collaboration, and no effective response to change



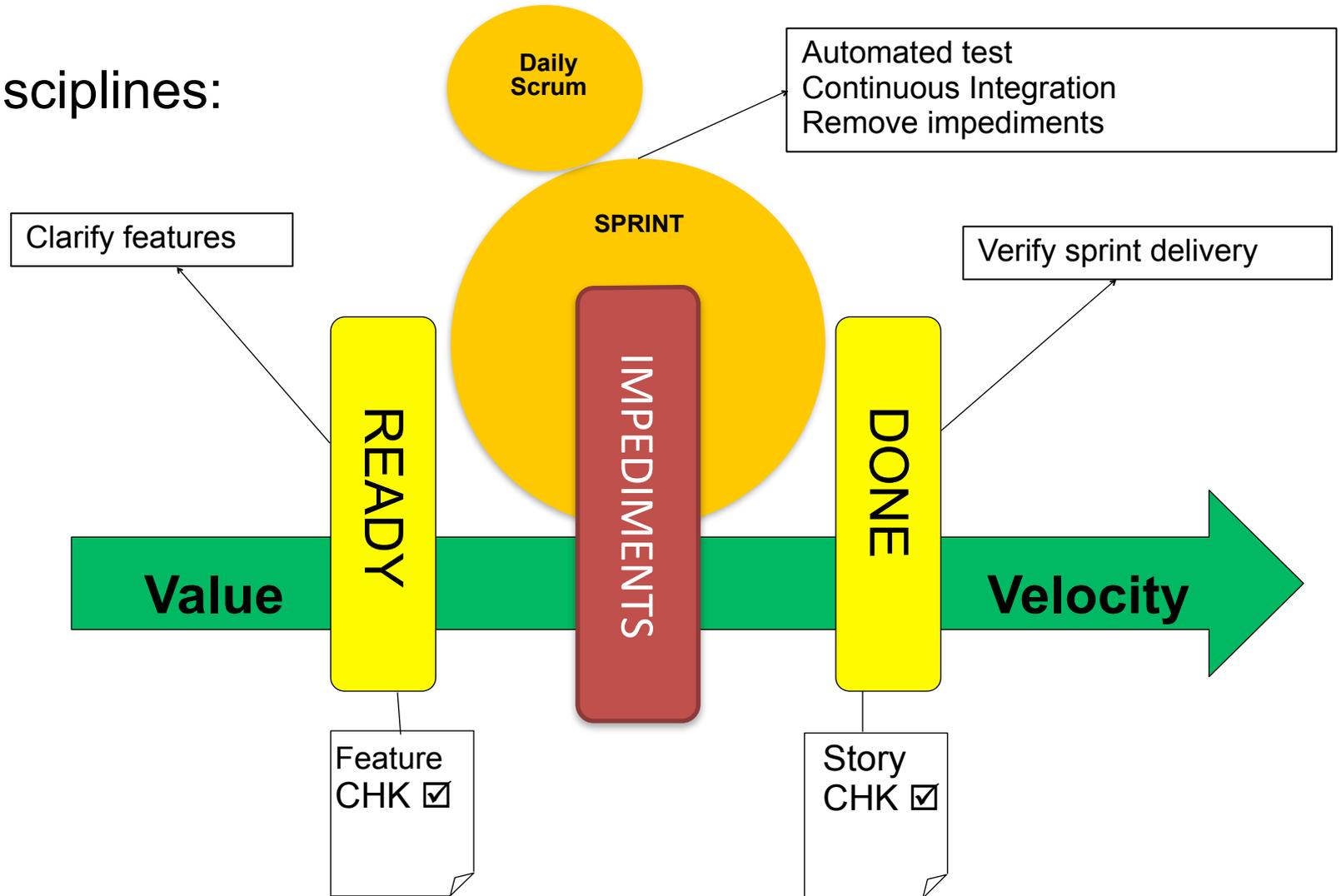
Systematic Approach to Getting To Done

- Implementing the Definition of Done
- Ensuring that backlog is Ready
- Training management
- Technical debt remediation plan
- Upgrading coaching and Scrum Master positions



Systematic Scrum Model

Disciplines:



Implementing Done

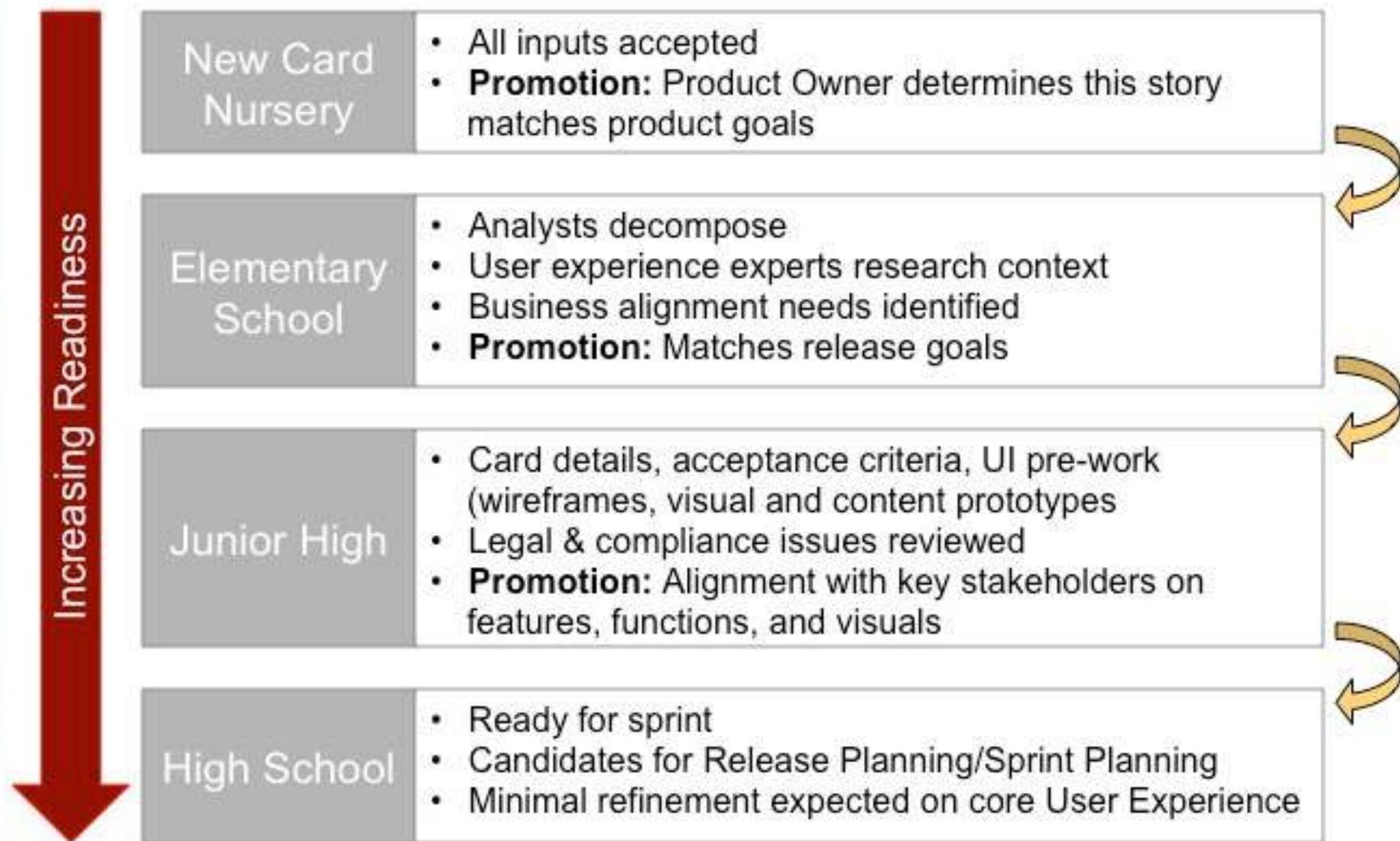
- **Definition of Done** must include integration testing and test capacity must exceed coding capacity
- Testers must be on the Scrum team - no separate test teams
- **Do not take too much into sprint.** Use Patterns.
 - Use “Yesterday’s Weather” pattern
 - “Illigitimus Non Interruptus”, and
 - “Scrum Emergency Procedure”
- **Use automated build system** combining new and old code (continuous integration)
- Systematically build **automated acceptance tests** which prevent top priority problems first
- Bugs **fixed in less than a day**
 - “Daily Clean Code”
 - 70% of defects are integration defects. Testing them later will take up to 24 times more testers!

Implementing Ready

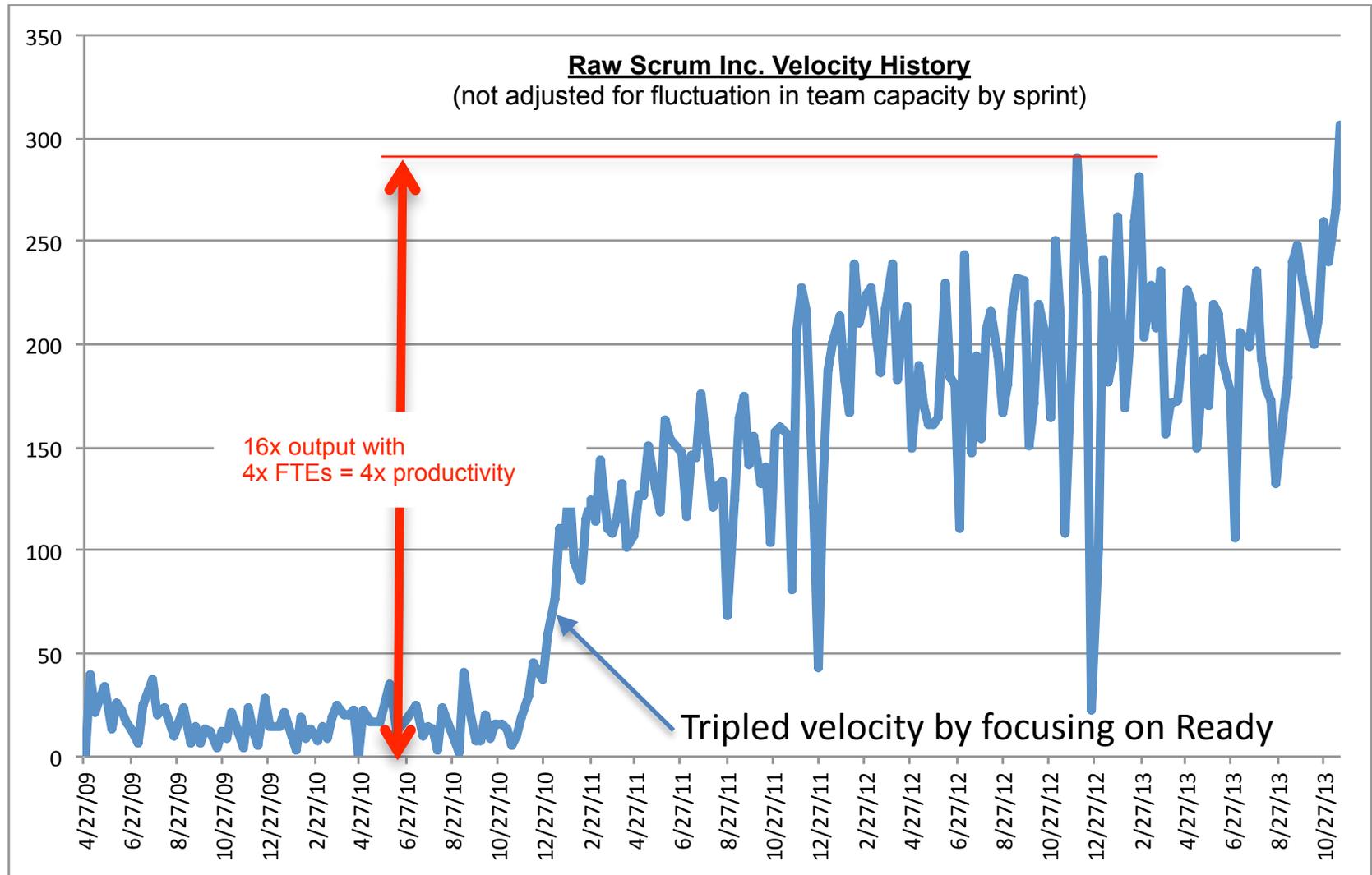
- Scrum Guide updated to include concept of **Ready**
- Team agrees on common **Definition of Ready**
- Only Ready Stories into Sprint Backlog
- **Backlog Refinement assures Ready** state.
- A good Ready state can **triple velocity**. Spend the time needed to get the backlog Ready.



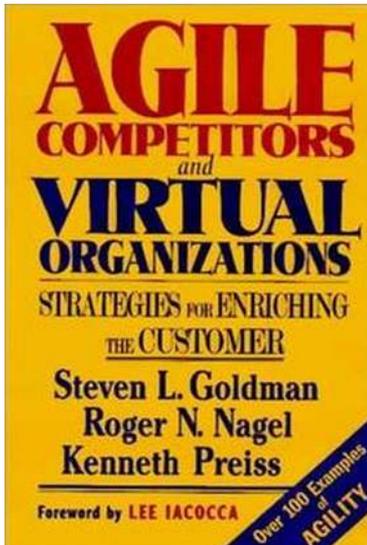
User Story Readiness Progression



Using Ready to Triple Velocity



Functional Leadership



- **Agile competition goes beyond lean manufacturing** by permitting the customer, jointly with the vendor or provider, to determine what the product will be.
- For agile competitors, the ability to individualize products comes at little or no increase in manufacturing cost. It does, however exact a cost: **It requires major changes in organization, management philosophy, and operations.**
- Managers need to be trained in how to lead Agile teams **by experienced Agile CXO's.**

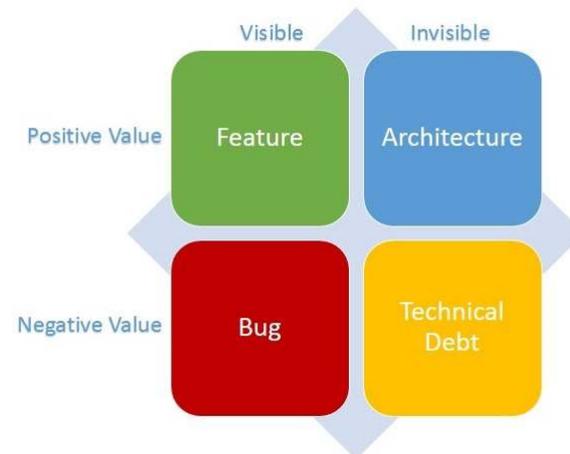
Leadership Responsibilities

- Provide challenging goals for the teams
- Create a business plan and operation that works
 - Set up the teams (in collaboration with teams)
 - Provide all resources the teams need
- Identify and remove impediments for the teams
 - Know velocity of teams
 - Understand what slows teams down (impediment list)
 - Remove waste (first-things-first)
- Hold P.O. accountable for value delivered per point
- Hold S.M. accountable for process improvement and team happiness



Fix Technical Debt

- **Remediate**
 - 80% of bugs come from 20% of code (or less)
 - IBM's strategy for determining remediation priorities - Mays et al. Experiences in Defect Prevention. IBM Systems Journal 29:1, 1990
- **Stop the Pain**
 - Systematically build acceptance tests into the build - highest priority first
- **Reduce the Debt**
 - Team build business case for Product Owner -
 - How many points for Tech Debt could go to value creation? (How long will it take to remove debt?)
- **Management commits to systematic improvement of product**
 - Reduce operational costs
 - Increase sales



Spotify Succeeds with Excellent Coaching



- Hires great workers
- Every team has a coach
 - Coaches are responsible for 1 process improvement every Sprint
 - Improvement backlog and they measure improvement continuously
 - Coaching has radically improved output of high performance teams.
- In the last year, 33% of all Spotify Teams have moved to continuous deployment multiple times per sprint.



Best Metrics for Coaches

- **Time to fix a defect.** If this averages less than 24 hours the team's velocity will double.
- **Measure of swarming.** How well do individuals and interactions generate performance.
 - Measure flow = actual work to do a story/ calendar time to done
 - If this is over 50% team velocity will double again



Going from Good to Great with Scrum
Are you **READY READY** to be **DONE DONE**?

Carsten Ruseng Jakobsen and Jeff Sutherland

SYSTEMATIC scruminc.

Patterns for Coaches - ScrumPlop.org

Teams that Finish Early Accelerate Faster

- **Stable Teams** - How you get started
- **Yesterday's Weather** - How you pull backlog into a sprint
- **Daily Clean Code** - How to get defect-free product at sprint end
- **Swarming** - How you get work done quickly
- **Interrupt Pattern** - How to deal with interruptions during the sprint
- **Stop the Line** - How to deal with emergencies
- **Scrumming the Scrum** - How to ensure you improve continuously
- **Happiness metric** - How to ensure teams aren't overburdened

Teams That Finish Early Accelerate Faster: A Pattern Language for High Performing Scrum Teams

47th Hawaii International Conference on System Sciences (HICSS)

By Jeff Sutherland, Neil Harrison, Joel Riddle

January 2014

Conclusions

- Bad Agile is caused by five primary factors
 - Poor definition of DONE
 - Stories not READY
 - Dysfunctional leadership
 - Technical debt
 - Ineffective coaching
- Systematically focusing on remediating these issues will consistently produce high performing teams with 200-400% improvement in production.
- Failure to focus on them will add yet another team to the 49% of teams that are “Bad Agile” leading to unhappy customers, lost revenue, and lower stock prices.

Questions?



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