

Feature vs. Component Teams January 15, 2013 Raleigh, North Carolina by Kenny Rubin

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Background of Kenny Rubin

Author



Trainer/Coach

Trained more than 18,000 people in Agile/Scrum, SW dev and PM

Provide Agile/ Scrum coaching to developers and executives



Experience Former Managing Director

My first Scrum project was in 2000 for bioinformatics GENOMICA







Characteristics of a Single Development Team



As the scope of work gets larger and one team is no longer sufficient, what is your scaling strategy?



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Architectural Layer Teams



Component Teams









So, which approach do you prefer?

What criteria are you using to decide?







Do you honestly think there is a single answer to scaling that universally applies to all situations (sizes and types of organizations)?

Feature A

Component







Recognize Inventory (WIP) Waste

Manufacturing inventory is both physically and financially visible Product-development inventory are knowledge assets that aren't visible in the same way as physical parts







Focus on Idle Work Not Idle Workers

Watch the Baton Not the Runners



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Example Workflow / Value Stream



🔆 Cost of Delay If you have to wait 6 weeks for the Art team to draw your art, and that delay could be eliminated by having artists on your team, what would be the cost of the Art-team delay (in lifecycle profits)? Cycle time Money Cycle time Variability *

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Team Structure Can Effect Predictability

What if we organized our teams in a way that made the productdevelopment process inherently more predictable?

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Seliminate Unnecessary Ceremony





Team Pattern Should Balance Predictive and Adaptive work











% Issue – Prioritization

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- Localized prioritization decisions based on things like:
 - * Technical priorities of component
 - Whatever is fun or easy
- Feature prioritization can be driven by component team availability
- * NPF (Nosiest Person First) can dominate work order







KIssue – Limits Learning



Issue – Harder to See the Whole







Economically a sensible concept, but need to consider the full cost of reuse





Issue – Lack of Conceptual Integrity





Issue – Lack of Knowledge







Issue – Organizational Resistance



- Interferes with fiefdoms
- Too hard to reorganize into feature teams
- A general belief that feature teams will lead to significant technical debt









***** Teams for Collaboration Clusters



Component Stewards/Guardians

- One or more people that teach others about the component
- Ensures changes maintain or improve conceptual integrity
- Not the owner of the component; feature teams make the changes
- Can also take a leadership role in promoting reuse





Deal with Problems/Opportunities that Age Poorly

Structure teams so we can attack problems that escalate fast or opportunities that disappear quickly



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Scaled Agile Framework Recommendation



* Top Down System Level Approach

What are your products?

What are your product backlogs?

What teams do you need to deliver on your goals?

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