Large Scale Scrum(LeSS): More with LeSS

By Ram Srinivasan, CST

https://linkedin.com/in/ramvasan

http://twitter.com/ramvasan

http://InnovAgility.com (blog)



The (Shameless) About Me Slide...

- Certified Scrum Trainer and practitioner
- Contributor to the upcoming 1-day LeSS introductory course (to be published by Scrum Alliance and The LeSS Company)
- Expert reviewer –PMI Agile practice Guide
- Passionate about complexity, neuroscience of coaching, systems coaching
- Speaker, reviewer, and co-organizer of many Agile conferences
 - Slides at http://slideshare.net/ramvasan

Special Discount for ANE

Agile New England Special: Register for the *Weekend Certified Scrum Master (CSM)* workshop in Boston on August 5th and 6th, 2017 and get the early bird special for \$795 (first 5 tickets only) –

Register here - http://bit.ly/2017-08-CSM

Take whatever I say with a pinch of salt....



Craig Larman

Alistair Cockburn

The Story we Believe...

We are a BIG organization and/or our product is BIG, so we need to use a scaling framework (preferably, the bigger the better)



Scaling Agile



Scaling Agile - YAGNI

Large Scale... Don't Multi Site... Don't Offshore... Don't



Bas Vodde and Craig Larman

"Scaling Agile methods is the last thing you should do"

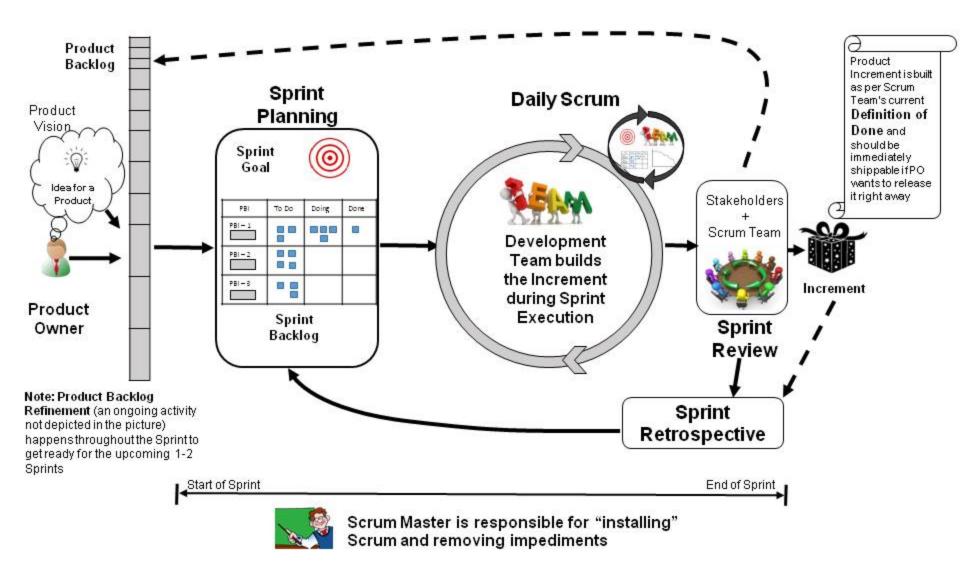


Martin Fowler

First... The Basics: Check your Scrum-fu



The Scrum Framework

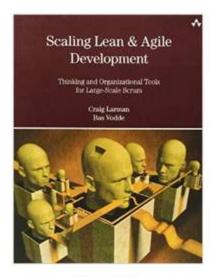




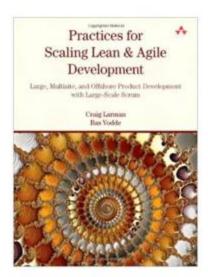
The History of Large Scale Scrum

"Since 2005, we've worked with clients to apply the LeSS (Large-Scale Scrum) framework for scaling Scrum, lean and agile development to big product groups. We share that experience and knowledge through LeSS so that you too can succeed when scaling."

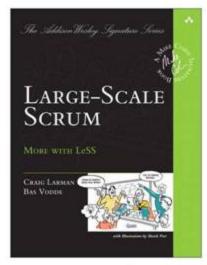
- Craig Larman and Bas Vodde



Book 1 2008



Book 2 2010



Book 3 2016

Prescriptiveness of Frameworks

LeSS: some rules guided by principles, many guides and experiments, no false dichotomies



None – just soft principles

Hard for novice organizations to start, easy to "fake change"

Many roles, rules, processes, techniques, ...

Not contextual enough, inhibits maximizing learning through empiricism & experiments

LeSS is About Refactoring the Organization

LeSS is a (meta-process) framework for organizational design.

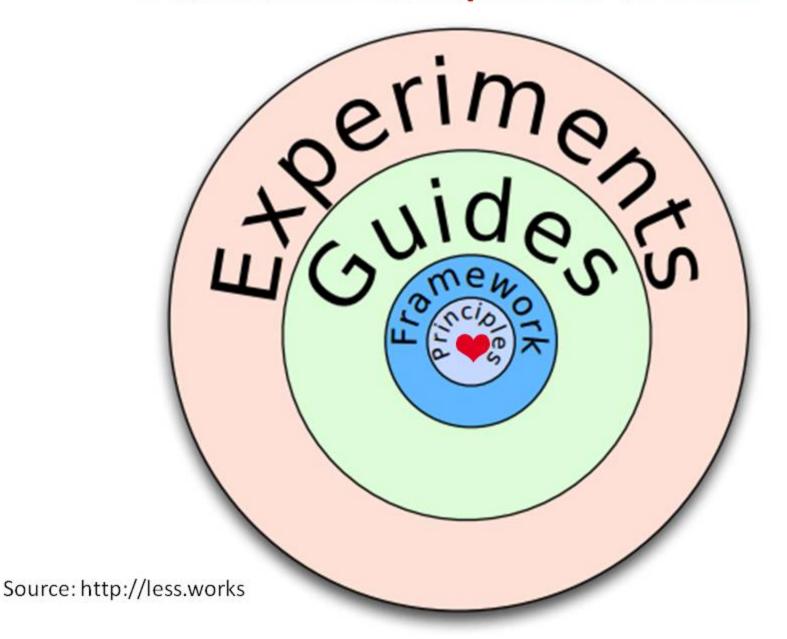
LeSS, like any other debugging tool, will expose the defects and wastes existing in the organization (but in a painful way)



LeSS simplifies scaling up Scrum by descaling (unwanted) complexity

- Descaling roles and organizational hierarchy
- Descaling organizational structures, policies, etc.
- Descaling architectural complexity

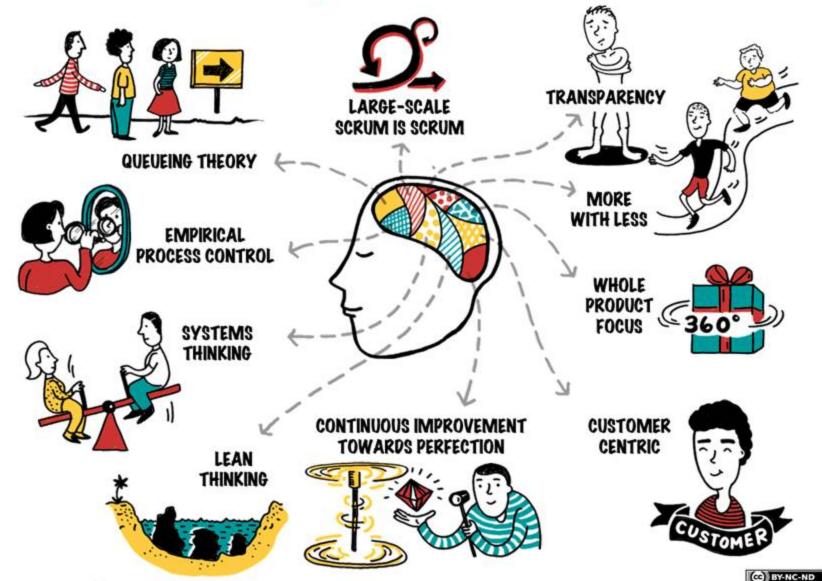
The LeSS Complete Picture



Less Complete Picture.

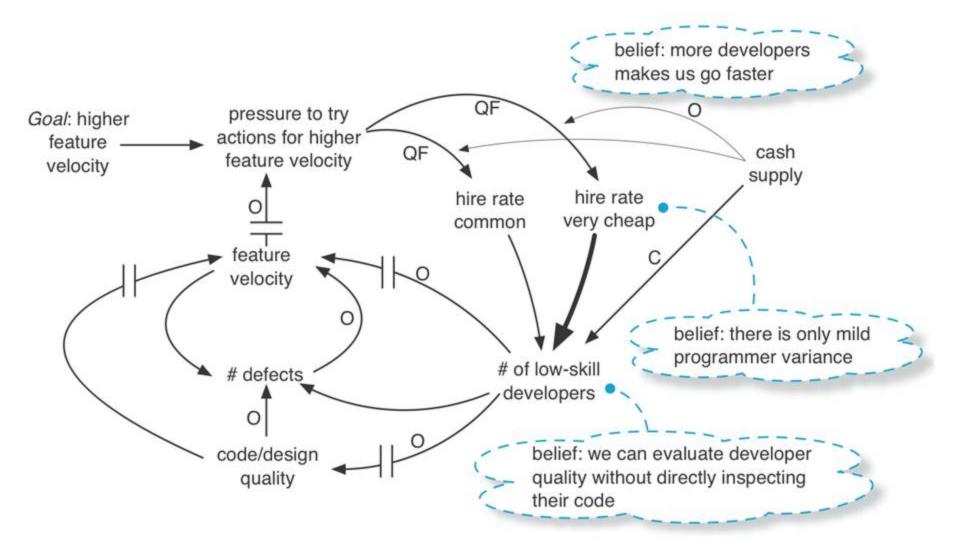
LeSS has been used with a dozen people, hundreds of people, and thousands of people.

LeSS Principles – Heart of LeSS

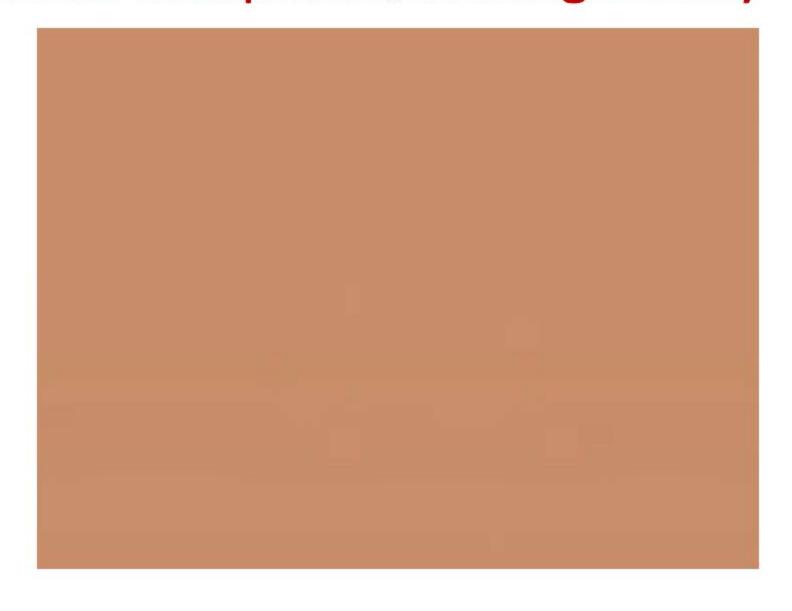


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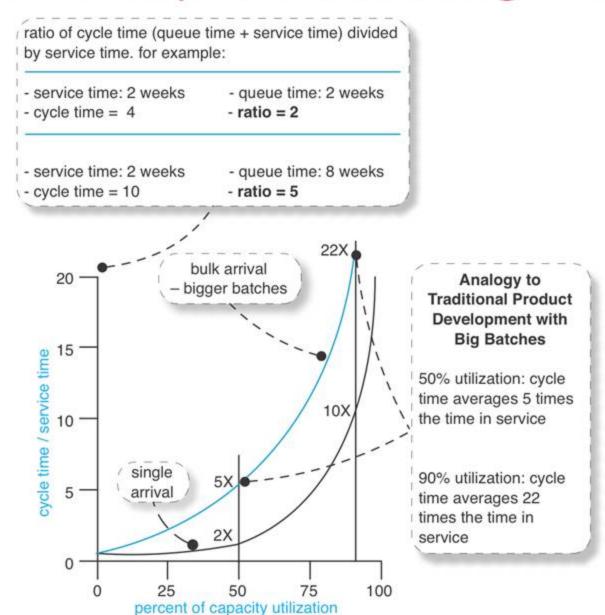
Systems Thinking – An example with Causal Loop Diagrams



LeSS Principles: Queueing Theory



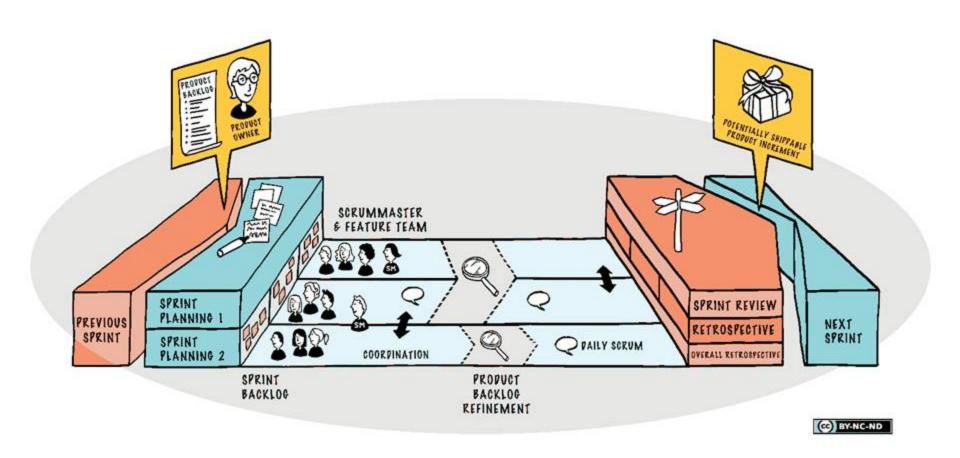
LeSS Principles: Queueing Theory



Charades



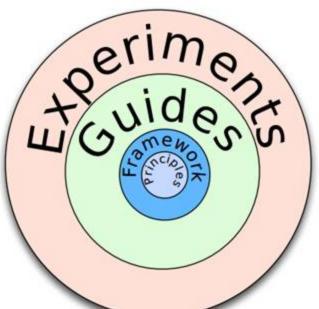
The Frameworks – LeSS ("Basic" LeSS)



Applicable from 2 to "8 "teams

Image Source: http://less.works

The term "LeSS" is over-loaded



LeSS: Principles + Framework + Guides + Experiments

"Basic" LeSS framework or LeSS framework (formerly Framework 1 in book 2)

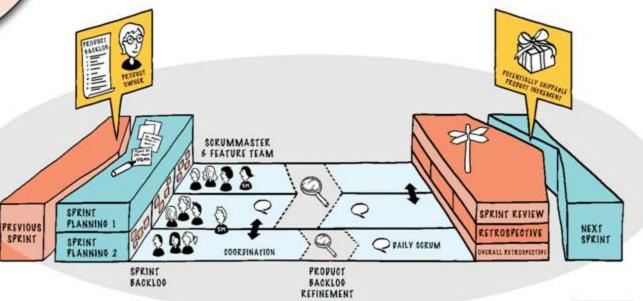
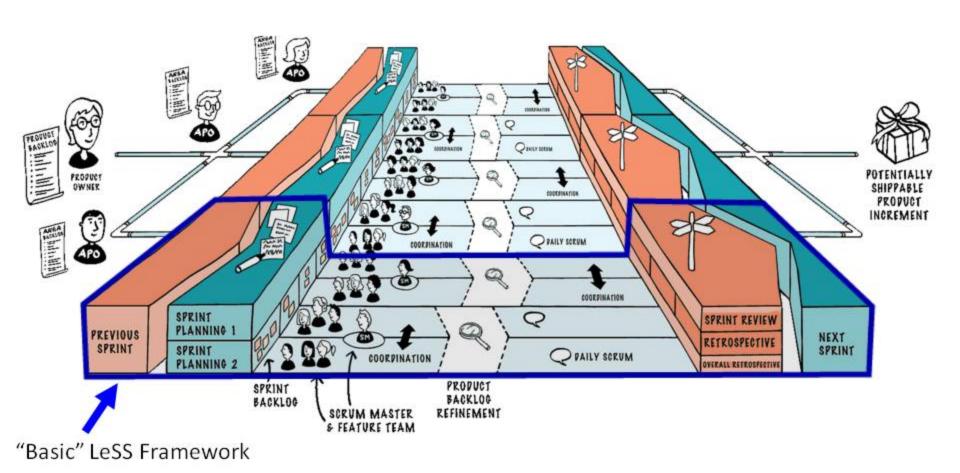


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The Frameworks – LeSS Huge



Applicable to "8+" teams

LeSS Rules define the LeSS Frameworks



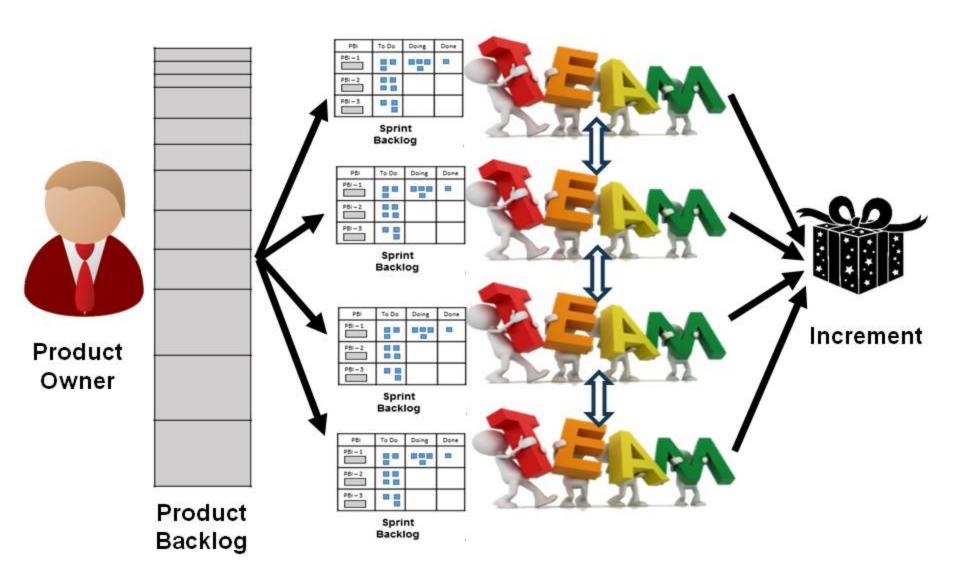


LeSS is about many teams scrumming together on the same Product

LeSS is NOT about many teams doing their own Scrum, or Scrum at the bottom for each team and something different layered on top

LeSS Rules (structure, product, and Sprint) serve as an "enabling constraint" and provides coherence when scaling Scrum

Product Backlog, Sprint Backlog, and Increment



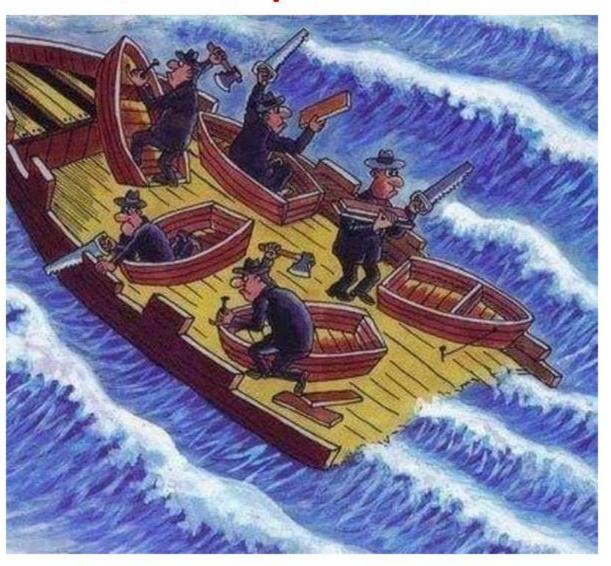
The Scrum Guide

Multiple Scrum Teams often work together on the same product. One Product Backlog is used to describe the upcoming work on the product

The Product Owner is the sole person responsible for managing the Product Backlog.... the Product Owner remains accountable (for the product backlog)

The Product Owner is one person, not a committee

Tragedy of the Commons - One Product Owner per Team

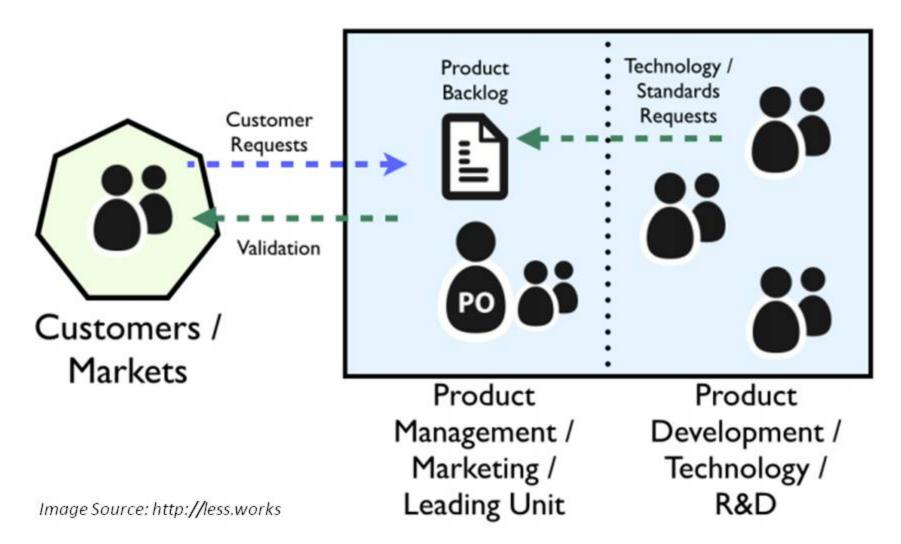


Just One Product Owner? Yes!!!

- Less Principle: Customer centric, "Whole Product" focus
- Prioritization (Ordering) over clarification
 - Product Owner may do (product backlog management) work, or <u>have the</u>
 <u>Development Team do it</u> The Scrum Guide
- Avoid burnouts
 - Product Owner as a connector, not a bottleneck in communication
 - Teams can and should directly work with stakeholders and other teams
- Focus on
 - Direction, prioritization, politics, market dynamics
- Watch out for
 - · "more details", administrativia, co-ordination
- Delegate (to teams)
 - Managing dependencies and inter-team coordination, challenging estimates, relaying information

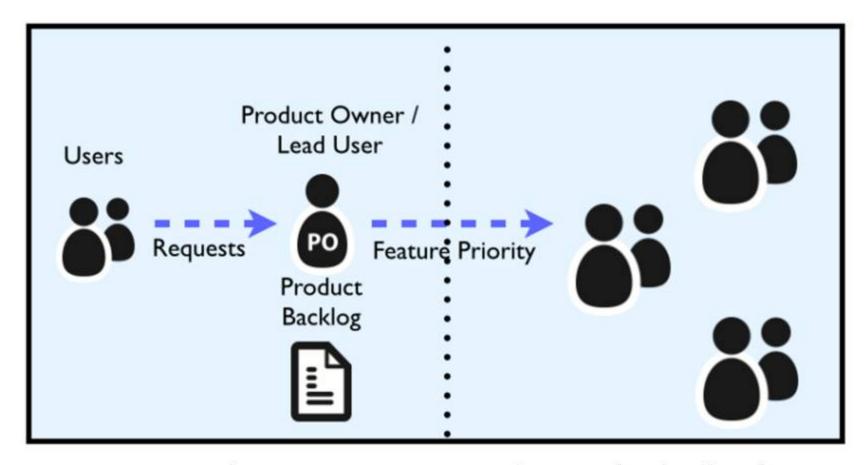
Pick the Right Product Owner

(Product Development)



Pick the Right Product Owner

(Internal (Product) Development)



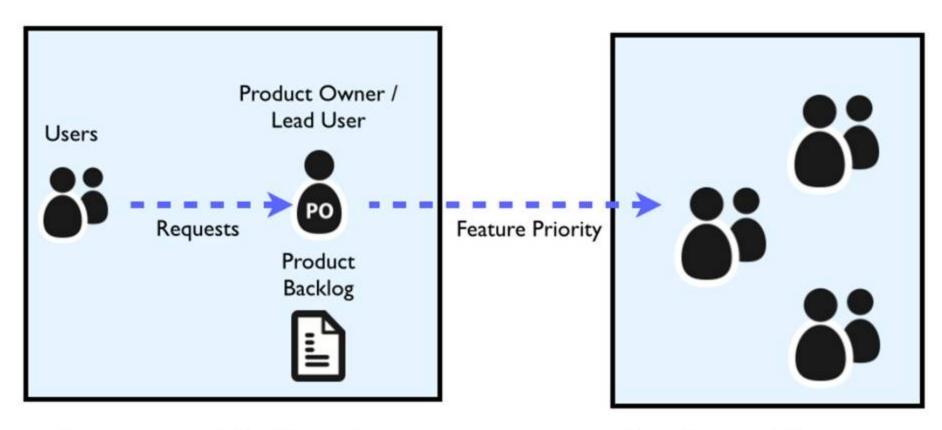
Business

Development/Technology/IT

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Pick the Right Product Owner

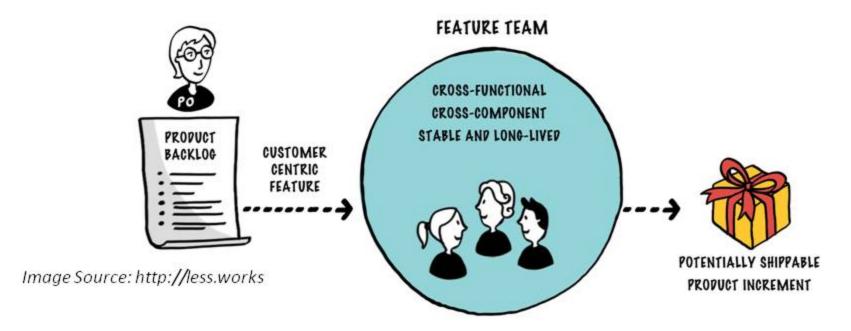
(Project Development / Client- Vendor Scenario)



Company receiving the system

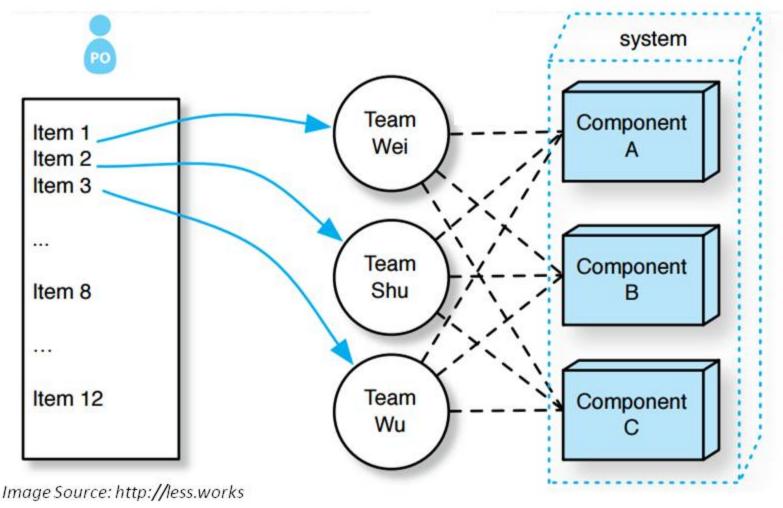
Development Company

LeSS Structure: Feature Team



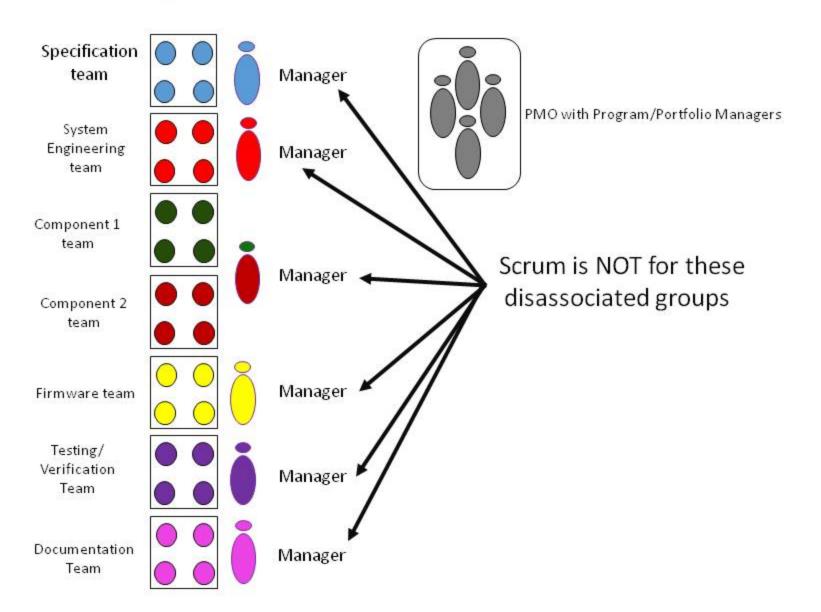
- Has the necessary knowledge and skill to complete end-to-end customer centric features.
 - If not, expected to learn or acquire the needed knowledge and skills
 - Team members are "multi-learners" (technical, domain, etc.)
- Each team is self-managed, cross-functional, co-located, (multiple teams may be spread across geography) and long-lived.

LeSS Structure: Feature Team

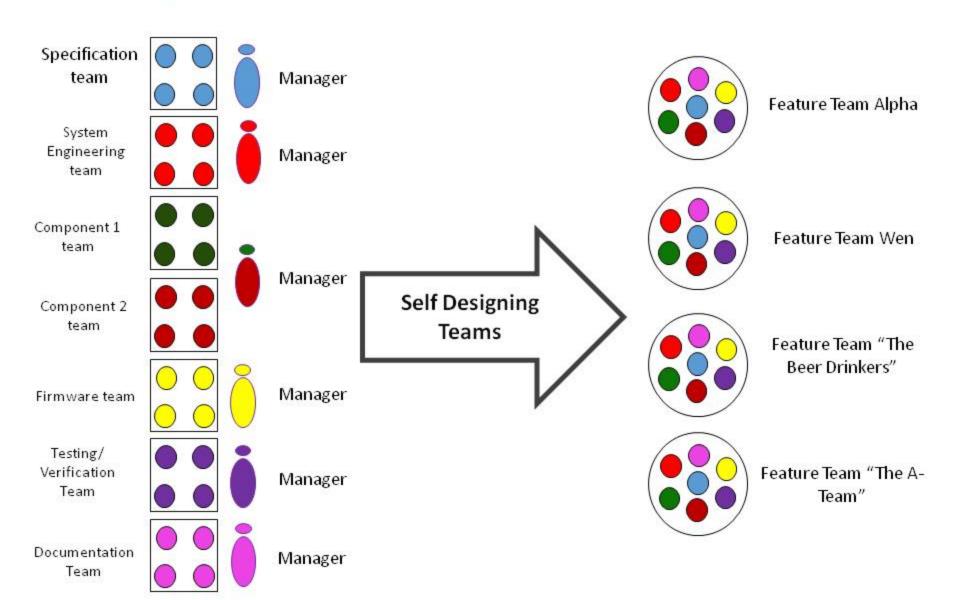


Hint: Continuous attention to technical excellence and good design enhances agility

Component Teams to Feature Teams

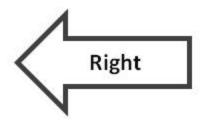


Component Teams to Feature Teams



Discussion: Change Implication of Component Teams to Feature Teams

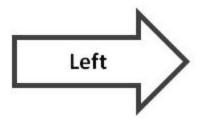
How will ex-functional managers, ex-component managers, and specialists react to this change?
What will their new role be?



Discussion: Change Implication of Component Teams to Feature Teams

Scrum Guide: ...no title other than (Product) Development Team Member regardless of the work being performed.... No exception to this rule

What are the implication of this on performance reviews, HR policies and processes?

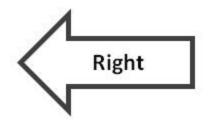


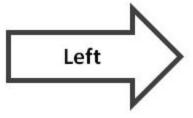
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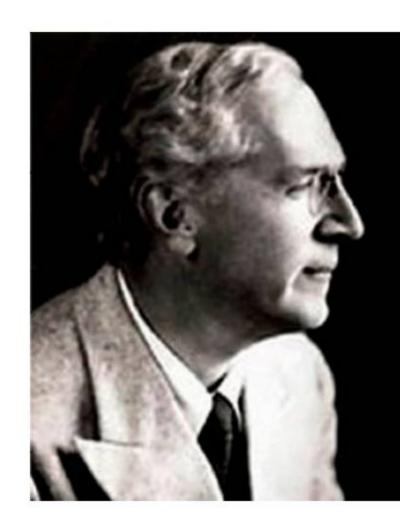
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"It is difficult to get a man to understand something when his job depends on not understanding it."

—Upton Sinclair

Lean Principle – Respect for People

Job safety and salary safety but no role safety

Scrum Master is a Full-Time role

(One Scrum Master can serve 1-3 teams)

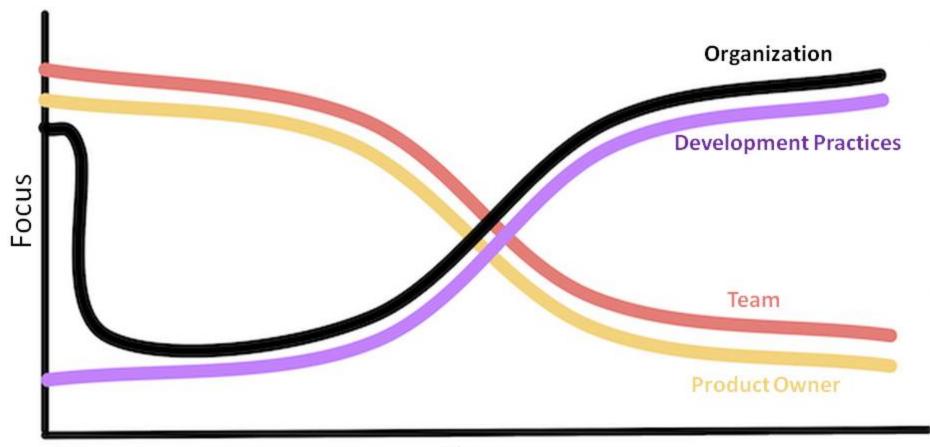
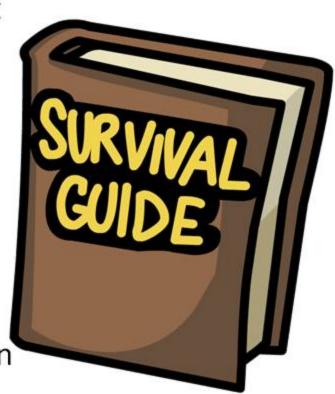


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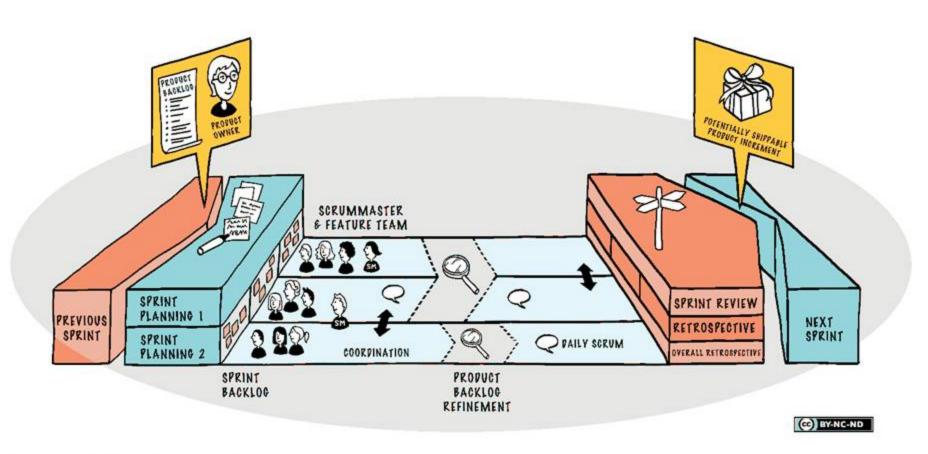
Time

LeSS Guide for Scrum Master

- Don't be the teams' personal assistant
 - · Enable co-ordination between teams
 - Have teams' take more ownership
- Avoid being an "anti-Scrum Master"
- Promote multi-learning
- Create LeSS Community
- Create Scrum Master Community
- Learn large-group facilitation techniques
- Survive (and thrive) in the organization
 - Patience, low expectation, courage, persistence, open and humble, sense of humor
- Partner with Managers and executives



There is only ONE sprint



Source: http://less.works

Sprint Planning, Review and Retrospective synchronized Product Backlog Refinement is coordinated between the teams

LeSS Meetings: Sprint Planning

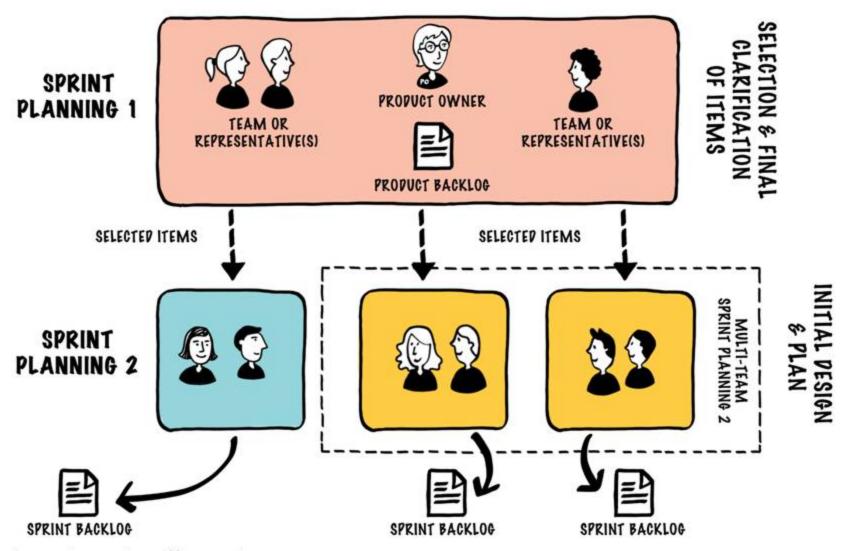


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LeSS Meetings: Sprint Planning 1

- Product Owner brings the ordered Product Backlog
- PO / SMEs clarify Product Backlog Items, if needed
- Teams (if only 2) / team representatives (more than 2 teams) decide which items to pick
- Spread risk among teams. If items higher up in the backlog are not equally spread out, PO can change the distribution
- The teams should be able to complete PBIs end-toend with minimal dependencies

Tips

If teams have many questions during SP1, PBR is not rigorous If there are too many cross-team coordination issues, the teams are not true feature teams

LeSS Meetings: Sprint Planning 2

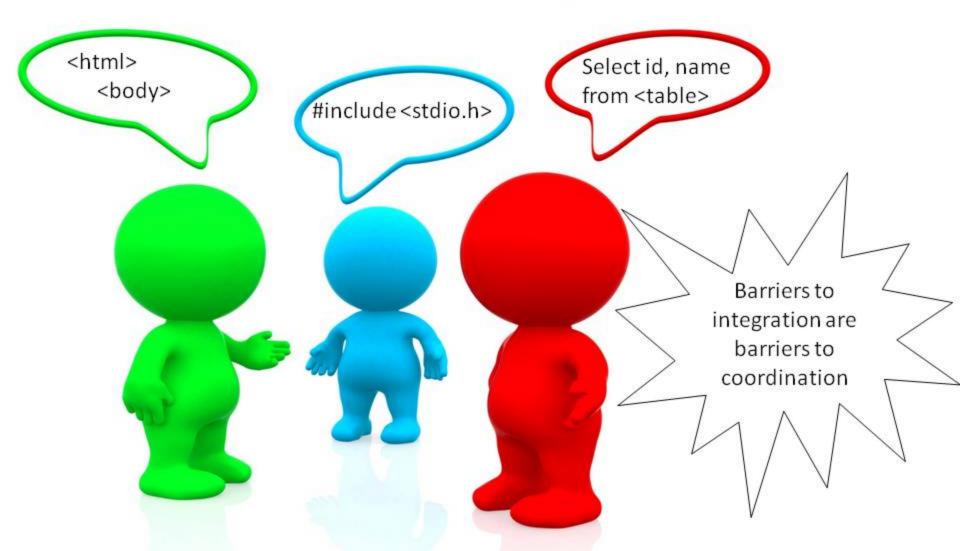
- Teams decide "How"
- One room, multiple teams
- Shared design
- Each team creates their own Sprint Backlog
- Team members interact and co-ordinate throughout the Sprint

LeSS Meetings: Daily Scrum

- ... is no different from a single-team Scrum
- ... can be used for coordination between teams by having people from other teams join in to observe.
- ... is a meeting for the Team, not for the Scrum Master or managers.



Just Talk !!!



Communicate in Code



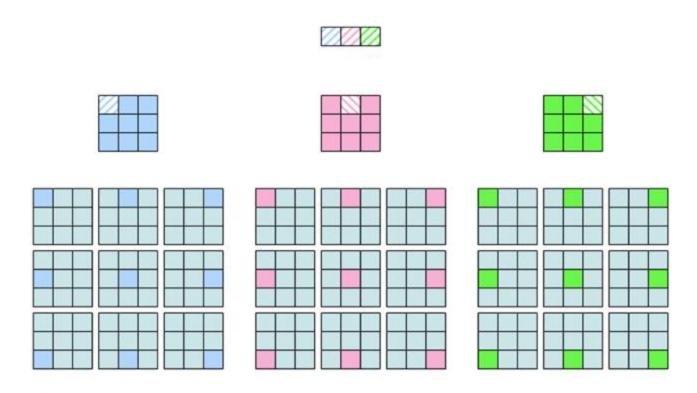
Send Observers to the Daily Scrum



Avoid Branching



Coordination during the Sprint Scrum of Scrums



A caution: The desire to hold a Scrum of Scrums can be a sign of unnecessary dependency or coordination problems caused by single-function groups and component teams, or by teams not able or willing to identify and do shared work.

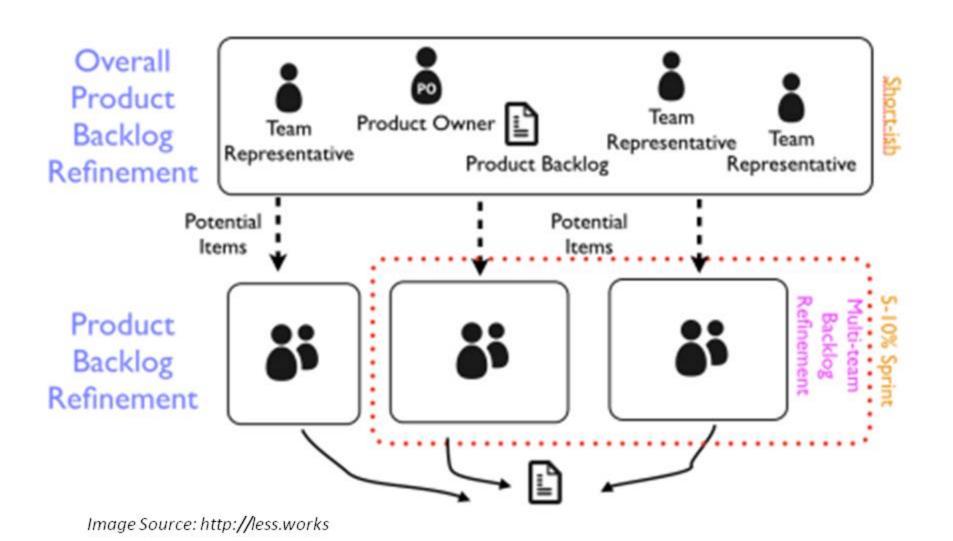
Decentralized (preferred)

- Send the observer (to other teams' Daily Scrum)
- Travellers
- Multi-site Shared Space (e.g. "always on" webcams)
- Environment Mapping (explore teams' dependencies)
- Coordination Working Agreements

Centralized

- Open Spaces
- Scrum of Scrums
- Town Hall

Product Backlog Refinement in LeSS



LeSS Meetings: Sprint Review



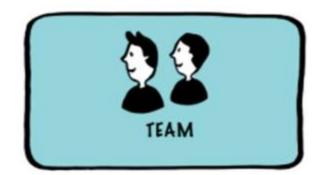


For larger teams, use Diverge-Merge techniques

LeSS Meetings: Sprint Retrospective







OVERALL RETROSPECTIVE



Image Source: http://less.works

In an Overall Retrospective, the systemic and organizational issues explored are above the level of a single team.

ONE Definition of Done for the Product

- Not one DoD per team, but Teams can extend the "base" version of DoD
- Must be created before the first Sprint during Initial Product Backlog Refinement by Teams and Product Owner
- Steps
 - Identify all activities (technical, non-technical) that should be performed to ship the product to end customer (Perfect DoD for PSPI)
 - Identify activities that can be done within each Sprint considering current capabilities, context, skills, etc. (Current DoD)

Work "done" (in iteration) = current DoD x Product Backlog Item

"Undone" work = work for Perfect DoD – work "done" as per current DoD

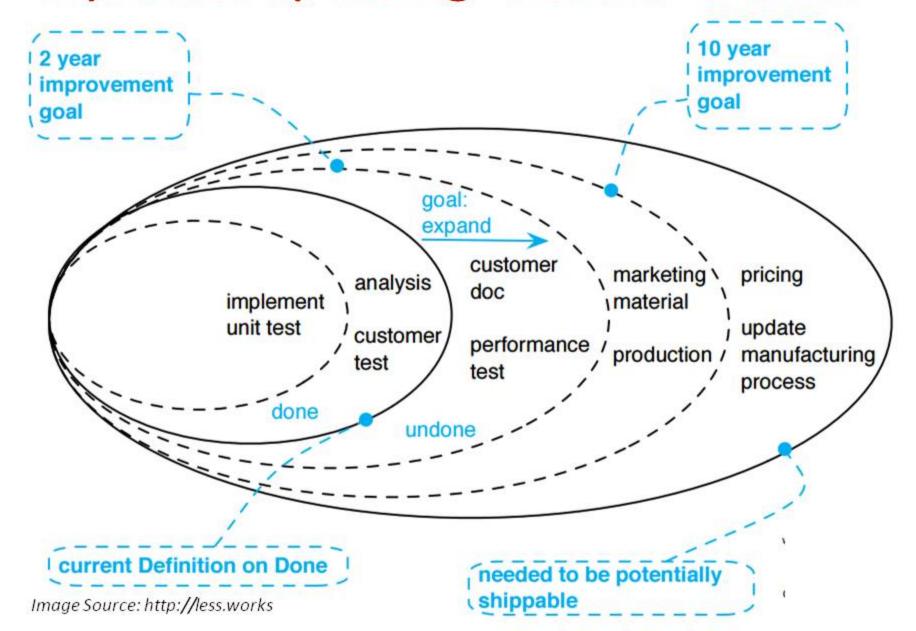
LeSS Principle - Continuous Improvement Towards Perfection

"Undone" Increment reduces transparency. So as time progresses, current DoD becomes more rigorous and there is no "Undone" work

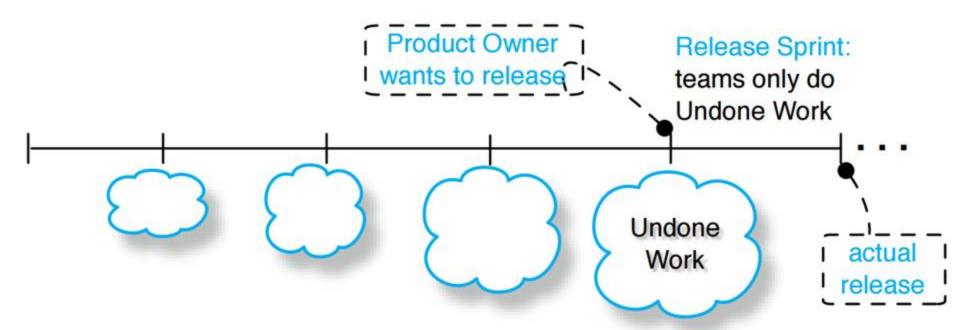
If you can, get a perfect DoD before Sprint 1



If you end up having "Undone" work....



If you end up having "Undone" work....



LeSS Organizational Structure

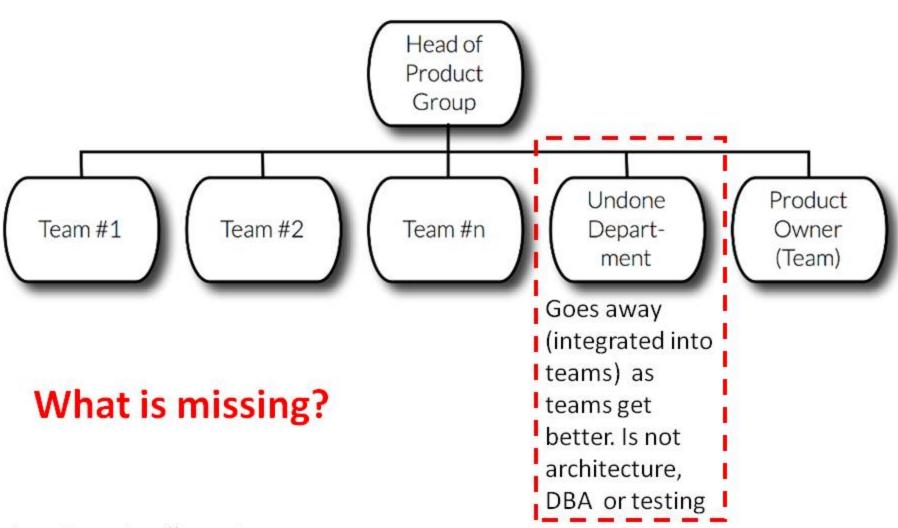


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Management



ROLE OF MANAGER

MANAGER ?





MANAGER AS SCRUMMASTER?







TEACHING PROBLEM SOLVING



SELF-MANAGEMENT



Organizational Agility is constrained by Technical Agility





CONTINUOUS















TEST-DRIVEN DEVELOPMENT

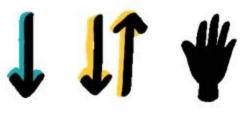




UNIT TESTING



Adopting Less





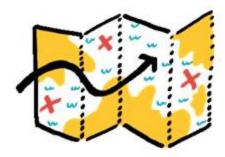












FEATURE TEAM
ADOPTION MAP

Adoption: Three Principles 👢 🥼 🦞





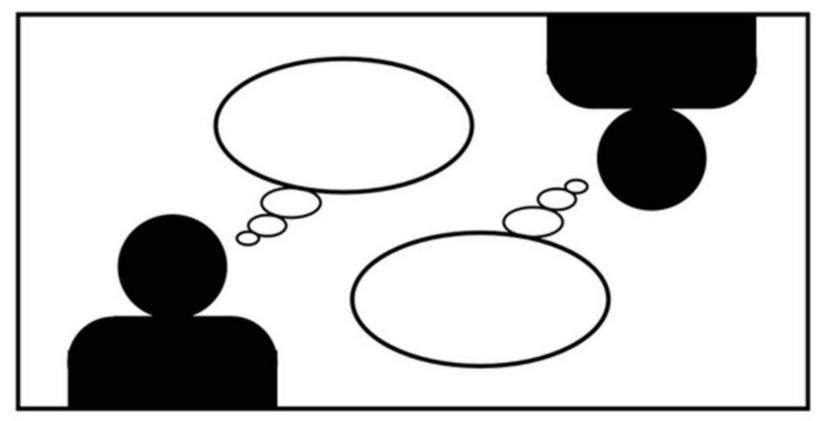


Deep and narrow over broad and shallow

Adoption: Three Principles 👢 🥼 🦞







Bottom-up and Top-Down

Adoption: Three Principles 🌡 🔰 🦞







THREE PRINCIPLES



Use Volunteering

Coaching

- Internal vs External coaching
- Three levels of Coaching
 - Organizational Coach
 - Team level (or LeSS coach)
 - Technical practices



Image Source: http://less.works

Feature Team Adoption Map

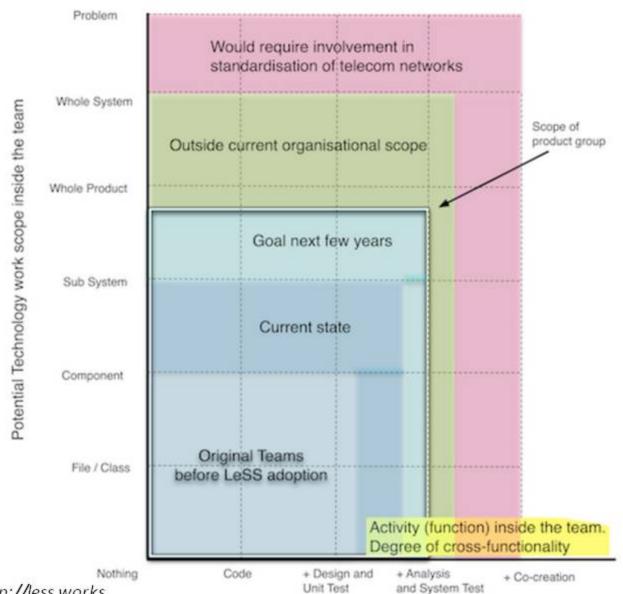


Image Source: http://less.works

Getting Started

- Educate everyone
- 2. Define 'product'
- Define 'done'
- Have appropriately-structured teams
- Only the Product Owner gives work to the teams
- 6. Keep project managers away from the teams

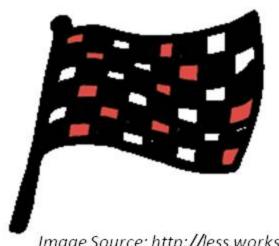


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