

Getting To The Bottom Of It



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Class Activity

Class:

- Everyone, individually, use the 5 WHYs technique to 'unpack' (discover) a problem, presented by instructor
- Converge and discuss. Look for similarities and differences in your solutions. Are there any similar "Because"? Are similar "Because" at the same level?
- Identify opportunities for further System Modelling

Instructor: Catalyze. Reflect. **Duration:** 10 min





Sourced from: https://less.works/resources/graphics/index.html

LeSS Rules: LeSS Structure

- 1. Structure the organization using **real teams** as the basic organizational building block.
- Each team is (1) self-managing, (2) cross-functional, (3) co-located, and (4) long-lived.
- 3. The majority of the teams are **customer-focused feature teams**.
- Scrum Masters are responsible for a well-working LeSS adoption. Their focus is towards the Teams, Product Owner, organization, and development practices. A Scrum Master does not focus on just one team but on the overall organizational system.
- 5. A Scrum Master is a dedicated **full-time role**.
- 6. One Scrum Master can serve **1-3 teams**.
- 7. In LeSS, **managers are optional**, but if managers do exist their role is likely to change. Their focus shifts from managing the day-to-day product work to improving the value-delivering capability of the product development system.
- 8. Managers' role is to improve the product development system by practicing **Go See**, encouraging Stop & Fix, and "experiments over conformance".
- For the product group, establish the complete LeSS structure "at the start"; this is vital for a LeSS adoption.
- 10. For the larger organization beyond the product group, adopt LeSS **evolutionarily** using Go and See to create an organization where experimentation and improvement is the norm.

LeSS Rules: LeSS Product

- 1. There is **one Product Owner** and **one Product Backlog** for the complete shippable product.
- The Product Owner shouldn't work alone on Product Backlog refinement; he is supported by the **multiple Teams** working directly with customers/users and other stakeholders.
- 3. All **prioritization** goes through the Product Owner, but **clarification** is as much as possible directly between the Teams and customer/users and other stakeholders.
- 4. The definition of product should be as **broad and end-user/customer centric as is practical**. Over time, the definition of product might expand. Broader definitions are preferred.
- 5. One **Definition of Done** for the whole product common for all teams.
- 6. Each **team can have their own stronger** Definition of Done by expanding the common one.
- 7. The perfection goal is to **improve the Definition of Done** so that it results in a shippable product each Sprint (or even more frequently).

LeSS Rules: LeSS Sprint

- 1. There is **one product-level Sprint**, not a different Sprint for each Team. Each Team starts and ends the Sprint at the same time. Each Sprint results in an **integrated whole product**.
- 2. Sprint Planning consists of **two parts**: Sprint Planning One is common for all teams while Sprint Planning Two is usually done separately for each team. Do multi-team Sprint Planning Two in a shared space for closely related items.
- 3. Sprint Planning **One** is attended by the Product Owner and Teams or Team representatives. They together tentatively select the items that each team will work on that Sprint. The Teams identify opportunities to work together and final questions are clarified.
- 4. Each Team has their own Sprint Backlog.
- 5. Sprint Planning **Two** is for Teams to decide **how** they will do the selected items. This usually involves design and the creation of their Sprint Backlogs.
- 6. Each Team has their **own Daily Scrum**.
- Cross-team coordination is decided by the teams. Prefer decentralized and informal coordination over centralized coordination. Emphasize Just Talk and informal networks via communicate in code, cross-team meetings, component mentors, travelers, scouts, and open spaces.
- 8. Product Backlog Refinement **(PBR) is preferably done with multiple teams** to increase shared learning and to exploit coordination opportunities.
- 9. There is one product **Sprint Review; it is common** for all teams. Ensure that suitable **stakeholders** join to contribute the information needed for effective inspection and adaptation.
- 10. Each Team has their **own Sprint Retrospective**.
- 11. An **Overall Retrospective** is held after the Team Retrospectives to discuss cross-team and system-wide issues, and create improvement experiments. This is attended by Product Owner, Scrum Masters, Team representatives, and managers (if any).

Class Activity

Class:

- Work in teams. Discuss: what LeSS Rules are the same as in Scrum and what are not (e.g. either different or not applicable at all)
- For the ones that are the same, plot on the scale, from 1 to 10: to what degree, at your respective organizations, these rules are being followed.
 Instructor: Catalyze. Reflect.
- Duration: 15 min



LeSS Sprint LeSS Structure LeSS Product Real Teams 23 6 14 1 One Product 9 18 Managers: (not groups and Owner Product definition -One product-level De-centralized and -Are OPTIONAL not by reporting broad and end-Sprint, to deliver informal -Must be @ Gemba 10 lines) user/customer integrated whole coordination. Just One Backlog (GO SEE) centric as is product talk Fach Team 2 practical -self-managing 7 11 Prioritization – LeSS product group -cross-functional comes from 19 24 (2-8 teams): -co-located Product Owner Sprint Planning 15 PBR – by multiple -long-lived complete LeSS ONLY two parts: DoD - shared by all structure "at the teams. 3 Part 1 and Part 2 teams start" customer-focused 12 feature teams Multiple teams 25 20 Sprint Review: 16 SP Part 1 – bv working directly 8 Beyond LeSS common for all team reps & PO with Team DoD can be 4 product group (e.g. teams + PO + ("WHAT") customers/users stronger than Scrum Master: LeSS Huge) stakeholders/ and stakeholders shared DoD Full-time role evolutionarily users 21 1-3 teams adoption Each team – their 13 17 Clarification -Sprint (Team) 26 own SPRINT 5 comes from users Big goal: improve Retrospective backlog Scrum Master: DoD, with each /stakeholders individual for each -Responsible for sprint team LeSS Adoption 22 -Focus on: PO, 27 SP Part 2 – whole Overall Teams, teams & Users **Relevance To Scrum:** Retrospective -Organization, Dev ("HOW") individual for each practices team - Same as in Scrum 28 - Different or Not Applicable Each team – their own Daily Scrum

LeSS Sprint LeSS Structure LeSS Product Real Teams 14 23 6 One Product 1 9 18 Managers: (not groups and Owner Product definition -One product-level De-centralized and -Are OPTIONAL not by reporting broad and end-Sprint, to deliver informal -Must be @ Gemba 10 lines) user/customer integrated whole coordination. Just One Backlog (GO SEE) centric as is product talk Each Team 2 practical -self-managing 7 Prioritization 11 LeSS product group -cross-functional comes from 19 24 (2-8 teams): -co-located Sprint Planning – Product Owner 15 PBR – by multiple -long-lived complete LeSS ONLY two parts: DoD - shared by all structure "at the teams. 3 Part 1 and Part 2 start" teams customer-focused 12 feature teams Multiple teams 25 20 Sprint Review: SP Part 1 – by working directly 16 8 **Beyond LeSS** common for all team reps & PO with Team DoD can be 4 product group (e.g. teams + PO + customers/users ("WHAT") stronger than Scrum Master: LeSS Huge) stakeholders/ and stakeholders shared DoD Full-time role evolutionarily users 21 1-3 teams adoption Each team – their 17 Clarification – 13 Sprint (Team) 26 own SPRINT 5 comes from users Big goal: improve Retrospective – backlog Scrum Master: DoD, with each /stakeholders individual for each -Responsible for sprint team **LeSS Adoption** 22 -Focus on: PO, 27 SP Part 2 – whole Overall Teams, teams & Users Retrospective -Organization, Dev **Relevance To Scrum:** ("HOW") after team practices retrospective - Same as in Scrum 28 Different or Not Applicable Each team – their own Daily Scrum





LeSS Principles



Sourced from: <u>https://less.works/resources/graphics/index.html</u>

LeSS Principles



Class Activity

Class:

- Work in teams: discuss which mentioned principles are currently followed in your organization. Which ones are not?
- For the ones that are followed, plot on the scale from 1 to 10, to what degree they are being followed.

Instructor: Catalyze. Reflect.

Duration: 10 min





LeSS (Huge) Rules: LeSS Huge Structure

- Customer requirements that are strongly related from a customer perspective are grouped in Requirement Areas.
- Each Team specializes in **one Requirement Area**. Teams stay in one area for a long time. When there is more value in other areas, teams might change Requirement Area
- > Each Requirement Area has one Area Product Owner.
- > Each Requirement Area has between "4-8" teams. Avoid violating this range.
- LeSS Huge adoptions, including the structural changes, are done with an evolutionary, incremental approach.
- Remember each day: LeSS Huge adoptions take months or years, infinite patience, and sense of humor.

LeSS (Huge) Rules: LeSS Huge Product

- One (overall) Product Owner is responsible for product-wide prioritization and deciding which teams work in which Area. He works closely with Area Product Owners.
- Area Product Owners act as Product Owners towards their teams.
- There is one Product Backlog; every item in it belongs to exactly one Requirement Area.
- There is one Area Product Backlog per Requirement Area. This backlog is conceptually a more granular view onto the one Product Backlog.

LeSS (Huge) Rules: LeSS Huge Sprint

- There is one product-level Sprint, not a different Sprint for each Requirement Area. It ends in one integrated whole product.
- The Product Owner and Area Product Owners synchronize frequently. Before Sprint Planning they ensure the Teams work on the most valuable items. After the Sprint Review, they further enable product-level adaptations

Class Activity

Class:

 Work in teams. Discuss what LeSS Huge Rules are Consistent vs. Inconsistent/Not Applicable with your CURRENT SCALING MODEL?

Instructor: Catalyze. Reflect.

Duration: 10 min



LeSS Huge Rules

LeSS Structure

Requirement Areas - defined from customer perspective

Each Team specializes in one Requirement Area

Each Requirement Area has one Area Product Owner

Each Requirement Area has between "4-8" teams

LeSS Huge adoptions are evolutionary

LeSS Huge adoptions take months or years

LeSS Product

(Overall) Product Owner does productwide prioritization; works closely with Area Product Owners.

APO acts as a real PO to their teams.

There is one Product Backlog; every item in it belongs to exactly one RA.

There is one APO per RA. Area Product Backlog is a view of BL.

LeSS Sprint

There is one product-level Sprint

The Product Owner and Area Product Owners synchronize frequently

Consistency With Your Scaling Model:

- Consistent

- Inconsistent or Not Applicable

Class Activity

Class: In teams, identify all possible activities that a single Scrum team needs to accomplish. Discuss, what activities stay with a team, what goes to Product Owner and what to Scrum Master? *What remains unassigned?*

Instructor: Catalyze. Reflect.

Duration: 10 min



Class Activity

All possible activities that a single Scrum team needs to accomplish

Team	Product Owner	Scrum Master	other



Understanding System Thinking and System Modelling

Causation vs. Correlation



System Modelling with CLD (example)



Source : http://less.works/less/principles/systems thinking.html

Causal Loop Diagrams (CLDs): Annotations

Here are some elements of CLDs that I use in my graphics:

- Goals A high, overarching/strategic goal that needs to be achieved
- Variables System elements that have an effect or influence on other system elements (other variables)
- Causal links Arrows that connect two related variables
- Opposite effects "O" annotation near an arrow; suggests that the effect of one variable on another is the
 opposite of what could be expected
- Delayed effect "||" annotation that disrupts a causal link (arrow); it implies that there is a delayed effect of one variable by another variable
- Extreme effects One variable has an extreme (beyond normal) effect on another variable; it is represented by a thick arrow
- Constraints "C" annotation near arrow; implies that there is a constraint on a variable
- Quick-fix reactions "QF" annotation near an arrow; action that brings about short-term, lower-cost effect

Sample System Model – Causal Loop Diagram (CLD)



System Modelling with CLD (example)



Source: <u>https://www.scrumalliance.org/community/articles/2016/july/from-the-less-toolbox-causal-loop-diagrams-to-visu</u>

Local Optimization in Agile "Big Bangs" - Instructions

Exercise

Duration: 10 min

Class: in-groups, brainstorm what could some reasons for **Big-Bang Superficial Agile Transformations** and what they may lead to.

Method/Tool: System Modeling with CLD

Instructor: review with Class

Local Optimization in Agile "Big Bangs" - Exercise



Local Optimization in Agile Leadership Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in* **Agile Leadership** in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in Agile Leadership - Exercise



Local Optimization in Internal Contracts - Instructions

Exercise

Class: In-groups, think of how (legal) contracts, if 'translated' into an **internal contracts**, could lead to **local optimization**. Work with provided system variables to create a model.

Instructor: Give short feedback. Offer a recommended solution.

Duration: 10 min

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Local Optimization in Internal Contracts - Exercise



Local Optimization in Scrum Master Role - Instructions

Exercise

Duration: 10 min

Class: in-groups, brainstorm typical anti-patterns associated with misunderstanding **Scrum Master** profession ; use post-it notes to capture discoveries

Method/Tool: System Modeling with CLD

Instructor: review with Class

Local Optimization in Scrum Master Role - Exercise



Local Optimization in Roles & WBS - Instructions

Exercise

Duration: 10 min

Class: in-groups, brainstorm some of the most common pitfalls in defining a **product and problems with complex WBS (projects, programs and portfolios) and redundant roles.** Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD Instructor: review with Class

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Local Optimization in Roles & WBS - Exercise



Local Optimization in Product Definition - Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in Product Definition* in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in Product Definition - Exercise



Local Optimization in Product Backlog - Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in Product Backlogs* in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in Product Backlog - Exercise



Local Optimization in Analysis & Design-Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in Analysis and Design* in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in Analysis & Design- Exercise



Local Optimization in Releasing-Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in Releasing* in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in Releasing - Exercise



Local Optimization in PO-ship Structure- Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in* PO-ship Structure, in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in PO-ship Structure- Exercise



Local Optimization in Tool-Driven WBS Instructions



Duration: 10 min

Class: in-groups, brainstorm some of the most common examples of *Local Optimization in* **Tool-Driven WBS** in your respective organizations. Work with provided system variables to create a model.

Method/Tool: System Modeling with CLD

Instructor: review with Class

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Local Optimization in Tool-Driven WBS - Exercise

