Proper Scaling of Scrum And Dynamic Financial Forecasting

Presented @ Best Agile Articles of 2019

About Gene

Gene Gendel is an organizational design specialist, agile/lean coach and trainer, consultant and adviser to senior leadership. Almost 15 of 20+ years of his professional experience – Gene dedicated to working with companies of various sizes and lines of business, trying to help them improve internal dynamics, organizational structure and and becoming a better place to work. Gene engages at all organizational levels: senior- and mid-level management, teams and individuals. In his work, Gene uses various methods, tools and techniques to amplify learning by others and to ensure that people gain autonomy after Gene "coaches himself out of the job".

Gene is Certified Agile Coach (CAC), by Scrum Alliance – small elite community of Scrum Alliance Certified Enterprise Coaches (CEC). Today, he is the only CEC who resides in NY State. Gene is also one of the co-creators of Team Level Coaching Certifications (CTC) program for Scrum Alliance.

Gene is also one of very few <u>Certified LeSS Trainers (CLT)</u> that are based in the United States.

He is also well-recognized blogger and publisher. He is the author of <u>Adaptive Ecosystems</u>: <u>Collection of Independent Essays About Agility</u> and co-author of:

- <u>Agile Coaching: Wisdom from Practitioners</u> (free <u>pdf</u>).
- Best Agile Articles of 2017 and 2018



Gene significantly contributes to global and local agile communities, where he influences people by running workshops, webinars, seminars, panel discussions, lunch & learn, coaching retreats, professional gatherings and other events. While teaching and coaching Large Scale Scrum (LeSS) to organizations, Gene has built the biggest in world (today) LeSS meetup community that is used as a free educational hub about LeSS available to many people.

Assets To Consider

- gg_nyc@yahoo.com (underscore)
- https://www.linkedin.com/in/ggnyc/
- http://www.keystepstosuccess.com/contact-us/
- https://www.meetup.com/Large-Scale-Scrum-LeSS-in-NYC/



- h_IAPArcR8CyujNi2umlKw (Gene's free Slack channel ask questions about LeSS)
- http://www.keystepstosuccess.com/virtual-learning-training-coaching/

Rigid Budgets vs. Dynamic Forecasting

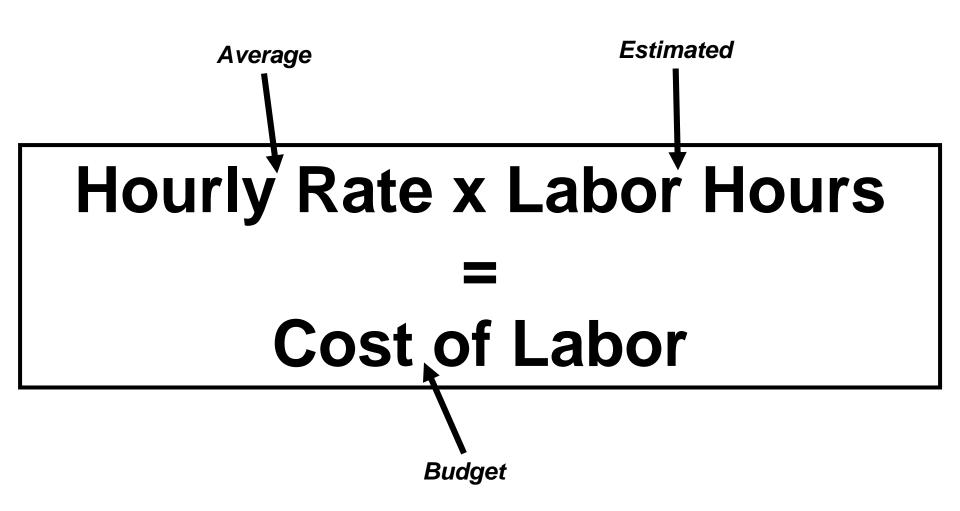
- Traditional budgets represent a retrospective look at past situation and conditions that may not be applicable in a future
- Even accurate assumptions get quickly outdated if cycle time is long
- Time-consuming processes add additional, financial overhead to organizations
- Rigid budgets often lead to fear of experimenting, researching and innovating – a must-do for agile/adaptive teams
- Most metrics are subjective, as they take on the form of RAG statuses
- When used as a yardstick to assess individual performance, performance indicators often lead to unethical behaviors

...If this is not obvious...



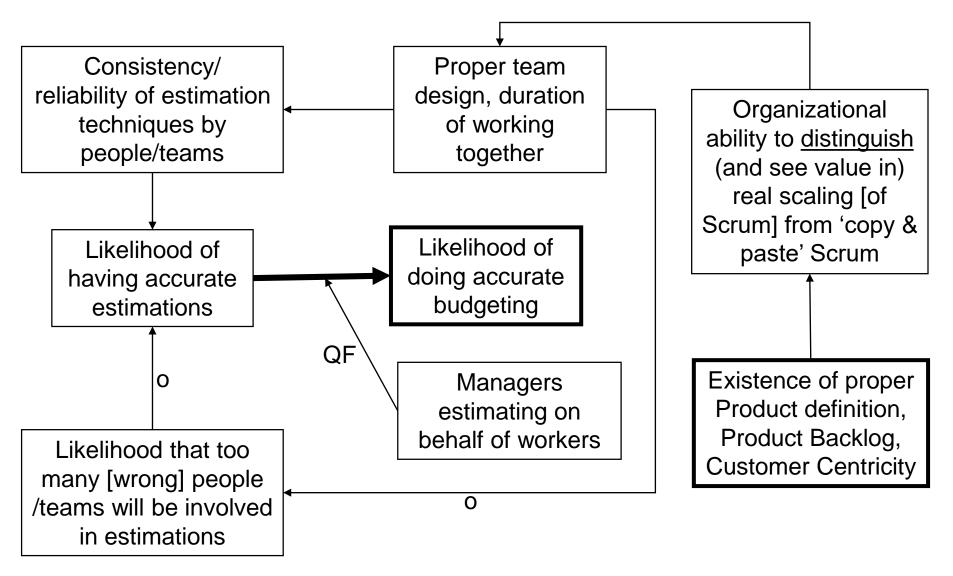


Economics of Labor (Simplified)



Modelling The 'System'

System Goal: to be able to do accurate budgeting



Modelling The 'System' (Legend)

- ❖ Goals 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 related variables
- ❖ Opposite effects "o" annotation near an arrow; suggests that the effect of one variable on another is negative ("-" feedback loop)
- ❖ Delayed effect "| |" annotation that disrupts a causal link (arrow); it implies that there is a delayed effect of one variable on 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 short-term, lower-cost effect into a relationship between two related variables

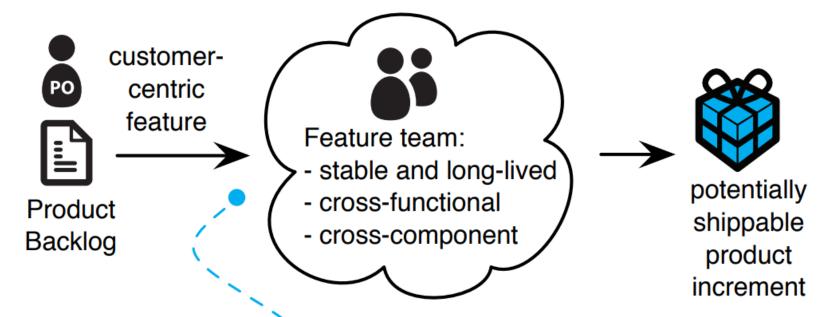
Real Questions We Need To Answer

➤ What are people working on?

➤ Who is estimating?

- ➤ Why are the estimating?
- ➤ How (Often) are they estimating?

Good-Old Scrum



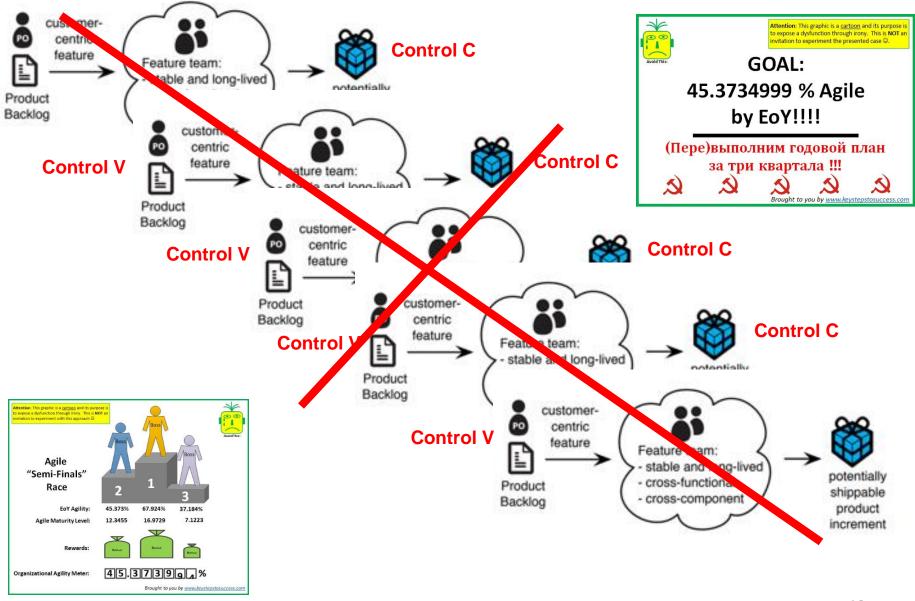
Team has the necessary knowledge and skills to complete an end-to-end customer-centric feature. If not, the team is expected to learn or acquire the needed knowledge and skill.

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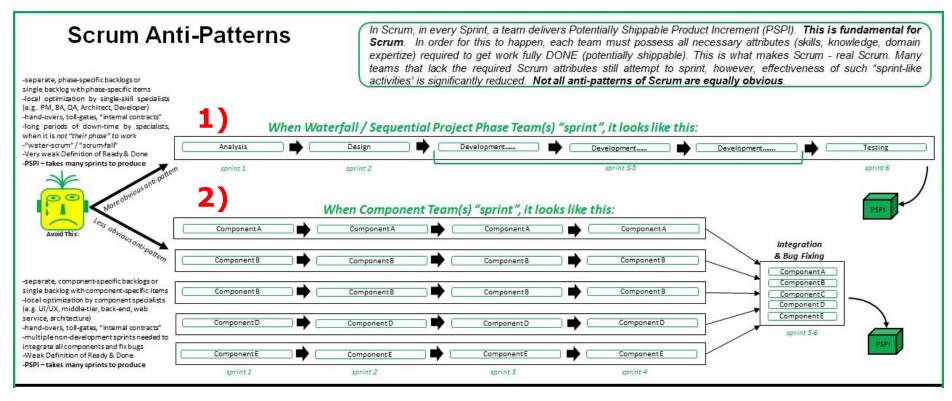
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We need a REAL TEAM!

Copying & Pasting Fake Scrum



Fake Scrum & Fake Scaling



- Product definition is weak. Applications and components that don't have strong customer alignment are treated as products
- "Doing Scrum" efforts are often a result of trying to meet goals of agile transformation (some annual % goals must be met), set at enterprise level
- "Territorial" code ownership
- Top-down, "command & control" governance, with little autonomy and self-management at team level
- Importance of Scrum dynamics and its roles are viewed as secondary to existing organizational structure blueprints
- Too many single-specialty experts and very few T-shaped workers
- No meaningful HR changes to support Scrum team design

Instituting Fake Teams

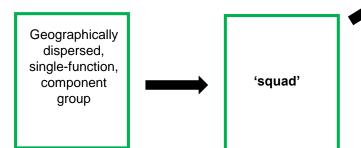
Taking a then ca original individua is a mas 'chapter'

Taking an existing organizational vertical, flipping it on its side, and then calling it a 'chapter', while preserving all elements of the original structure (reporting lines, management relationships, individual performance by 'chapter leads', mandatory participation) - is a **masquerade**

Can cumulative estimation by

these teams be accurate?

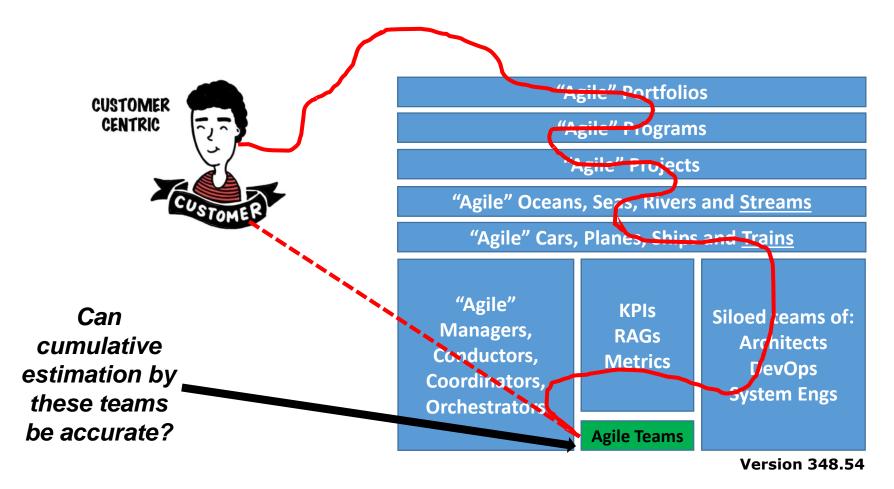
Relabeling large, geographically dispersed, single-function specialist/component group, managed by engagement managers and technical leads (with groups, frequently coming from external vendors, bound by fixed-everything SOWs) into a 'squad'- is a **masquerade**



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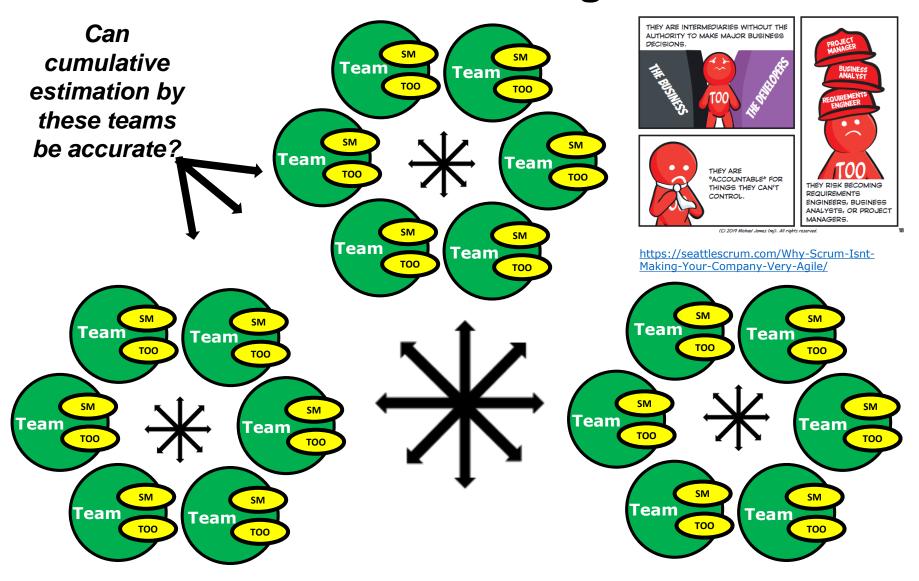
Taking an existing *portfolio* of *programs* and *projects* (usually, they weakly support customer-centric products) that are worked upon by used-to-be component groups, and now, so called 'squads', while relabeling a portfolio into a 'tribe' - is a **masquerade**

Gap b/w Budget Decisions and GEMBA



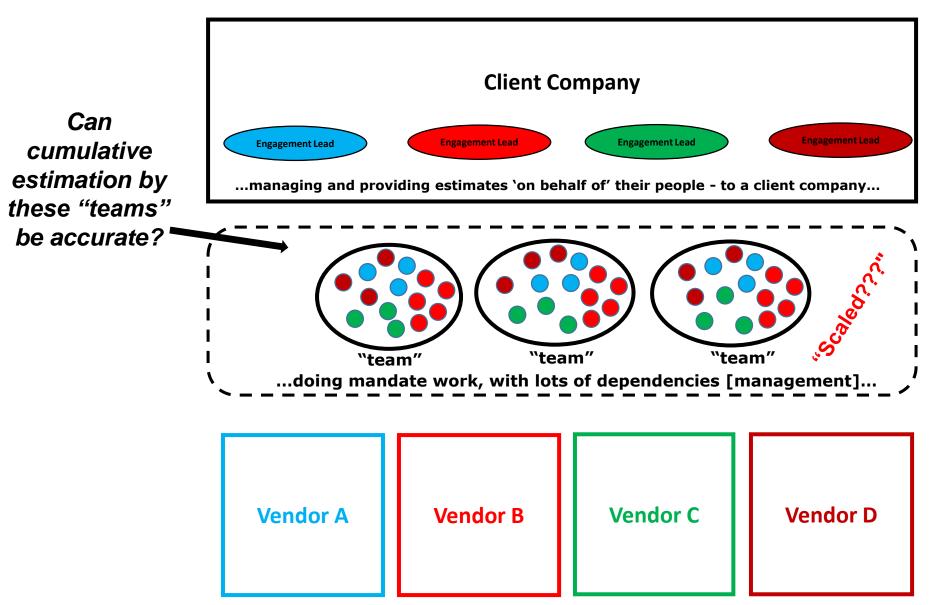
- Where is customer centricity?
- How looooong is a feedback loop between customers and developers?
- How adaptive (agile, fast-reacting) can teams really be, to Customer's requests?
- What has changed from what you saw prior to "installation"?

Fractal Scaling



Team private backlogs. Coordination Overhead. Local Optimization.

"Scaling" Contractually-Bound Vendor Groups



Then, Of course!!!...

All of the above will require a lot of <u>excessive</u> <u>coordination/orchestration</u>, <u>delegation of responsibilities</u>, <u>dependencies management</u> (and <u>managers</u>)...

AND THEREFORE

Will lead to errors, omissions and finger-pointing, blame-gaming

IN

Estimation → Budgeting

LEADING TO

financial miscalculations... > budget cuts and force reduction

And Therefore, All These Great Techniques:

- > Coarse Estimation vs. Fine-Grained Estimation
- Day/hour estimation vs. Story Point Estimation
- > Functional Points vs. Story Points
- Capacity Driven Planning
- Velocity Driven Planning (Historical Velocity)
- Velocity vs. Throughput
- Business Value (BV) point per Story Point (SP)
- Earned Value Management (EVM)

Become:







17

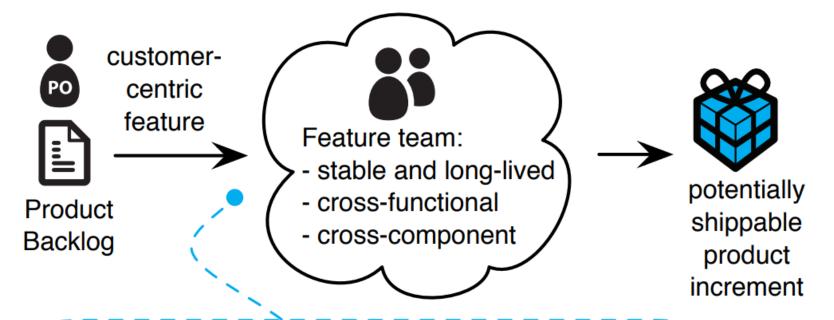
As The Saying Goes...



'Putting a saddle on a cow will not make it run like a horse'

Alternatives?

Good-Old Scrum



Team has the necessary knowledge and skills to complete an end-to-end customer-centric feature. If not, the team is expected to learn or acquire the needed knowledge and skill.

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Same Sprint. Same Sprint Goal.

Multiple teams doing their own "Scrum" vs

Multiple [real] teams sprinting together (on same Product)

<u>Different people</u> with strategy, and vision, setting a different course



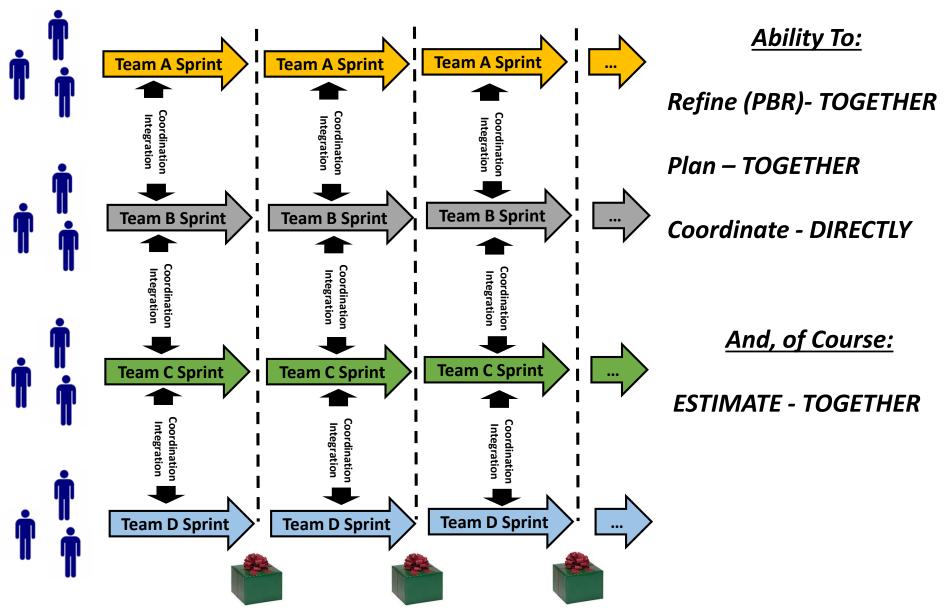
<u>Same person</u> with strategy, and vision, setting a unified course



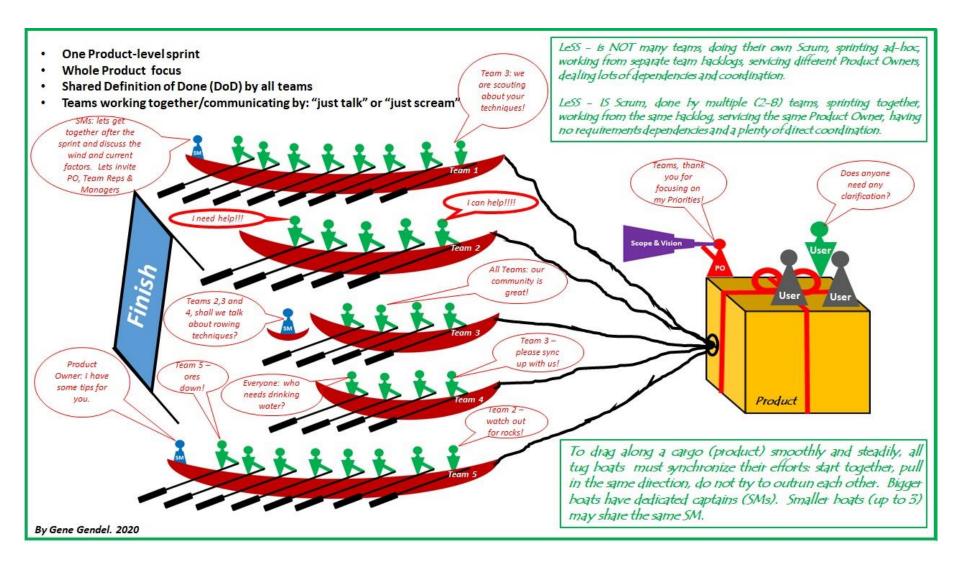
NO

YES

Same Sprint. Same Cadence. Real C/F Teams.

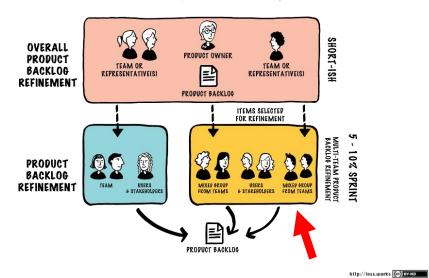


Same Sprint. Same Product. Same PO.

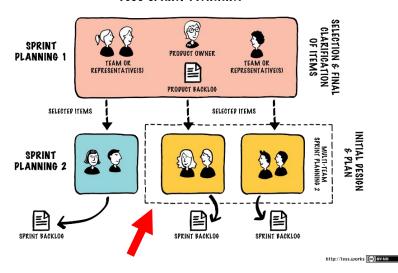


Richness of Multi-Team Collaboration

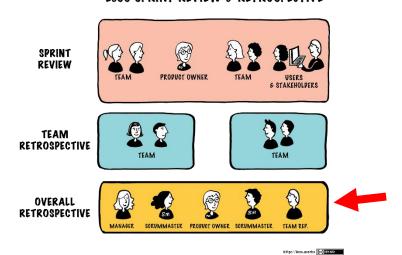
Less Product Backlog Refinement



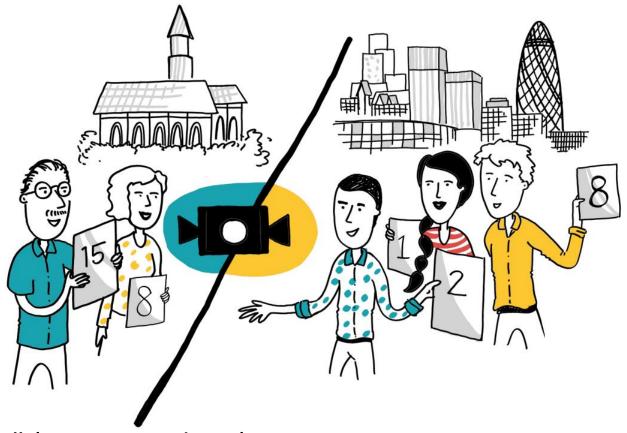
Less sprint planning



Less sprint review & retrospective



Multi-Site/Team Estimation w/ Planning Poker



- By "doers" (team members)
- Everyone is involved
- The main goal: CCC (Card, Conversation, Confirmation)
- No need to be too conservative (pad) or aggressive, while estimating

http://less.works (cc) BY-ND

Richness of Multi-Team Knowledge Sharing



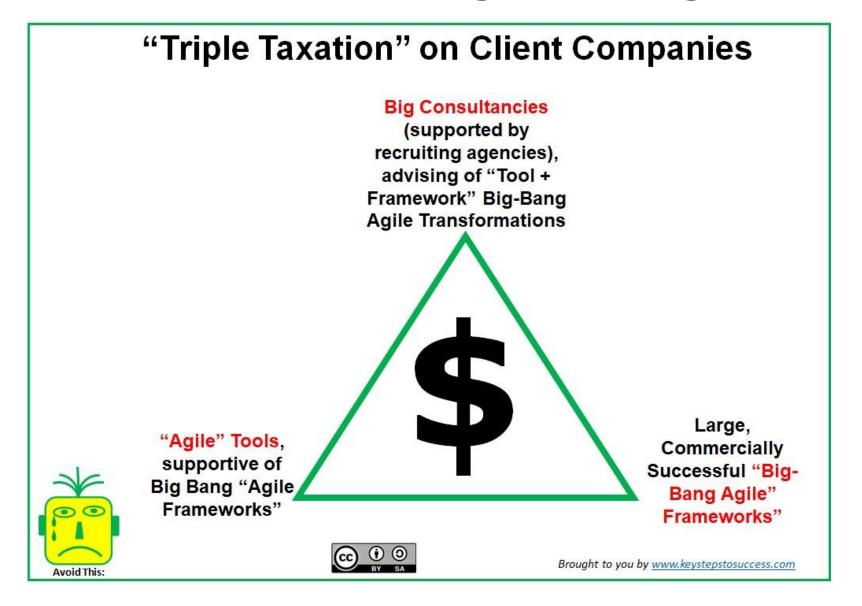
https://less.works/resources/graphics/index.html

Advantages

- ➤ Teams work synchronously, together (side-by-side), on the same widely-defined, real, product (real) → Shared understanding of work size & complexity → Establishing more reliable Estimation Techniques
- ➤ Same Product Owner: shared understanding of product vision and strategy → Better Strategic Planning
- ➤ Short cycle time and fast feedback loops → better responsiveness to increased/decreased market demands and/or product expansion/contraction
- ➤ Close proximity of real customers/users → More thoughtful strategic decisions about Funding/Budgeting

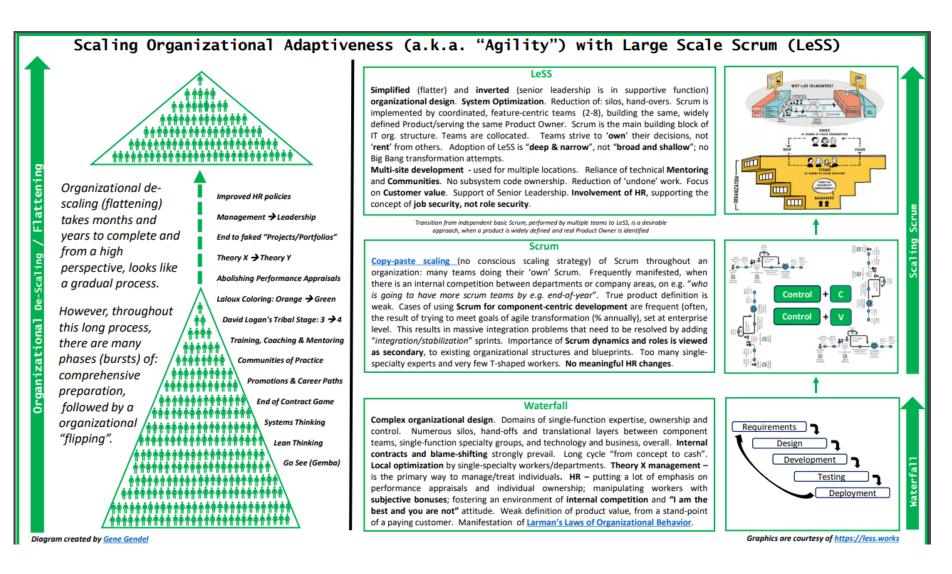
Q&A

Costs of Fake Agile Are High



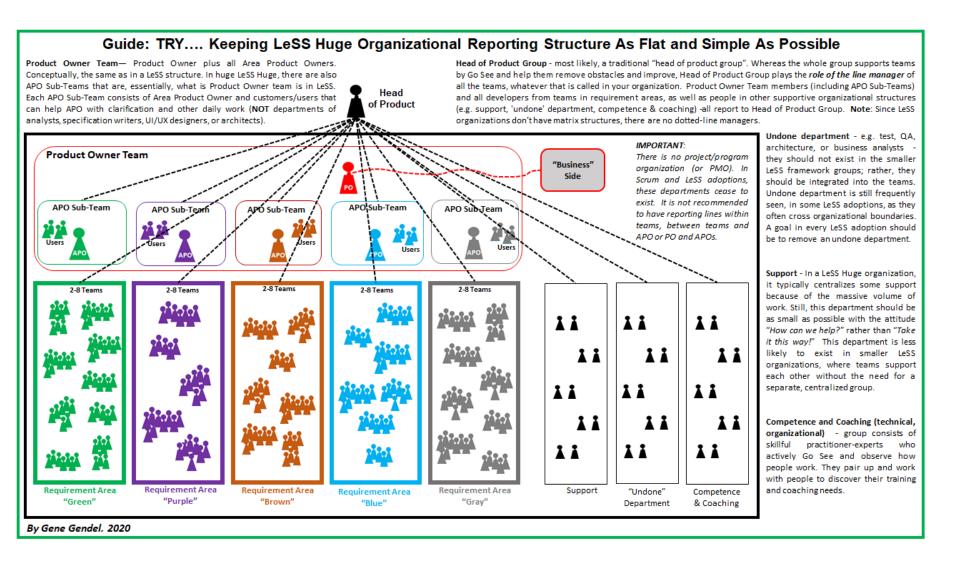
APPENDIX

Less is More



Source: http://www.keystepstosuccess.com/wp-content/uploads/2018/02/scrum scaling org descaling-1.pdf

Relationships in LeSS



Consultant
Coach
Trainer
Speaker
Publisher



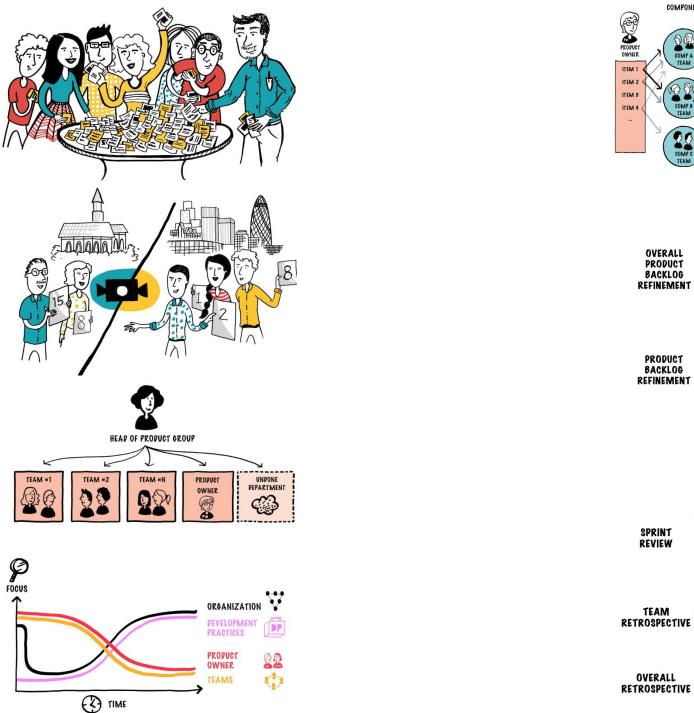


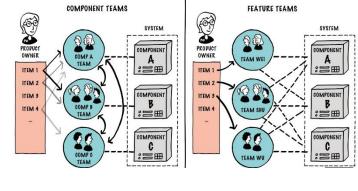


Consultant
Coach
Trainer
Speaker
Writer

Author and Contributor







Less Product Backlog Refinement

