Feature Teams vs. Component Teams: Exposing Local Optimization





by Gene Gendel

("This Is Not My Job")



Sourced from: https://static.timesofisrael.com/www/uploads/2019/11/000 1MB1Q8-640x400.jpg

...whereas, **Global optimization** refers to finding the optimal value of a given function among all possible solution...

... Local optimization finds the optimal value within the neighboring set of candidate solution...

https://www.iqi-qlobal.com/dictionary/from-optimization-to-clustering/45858

Pentagon Wars - Bradley Fighting Vehicle Evolution



"Everyone is busy and working so hard. Yet, the system is delivering slow and Users are not happy"

How could that be?





Sourced from: https://www.youtube.com/watch?v=5unMlXg6WL4

Frequently Heard Justifications:

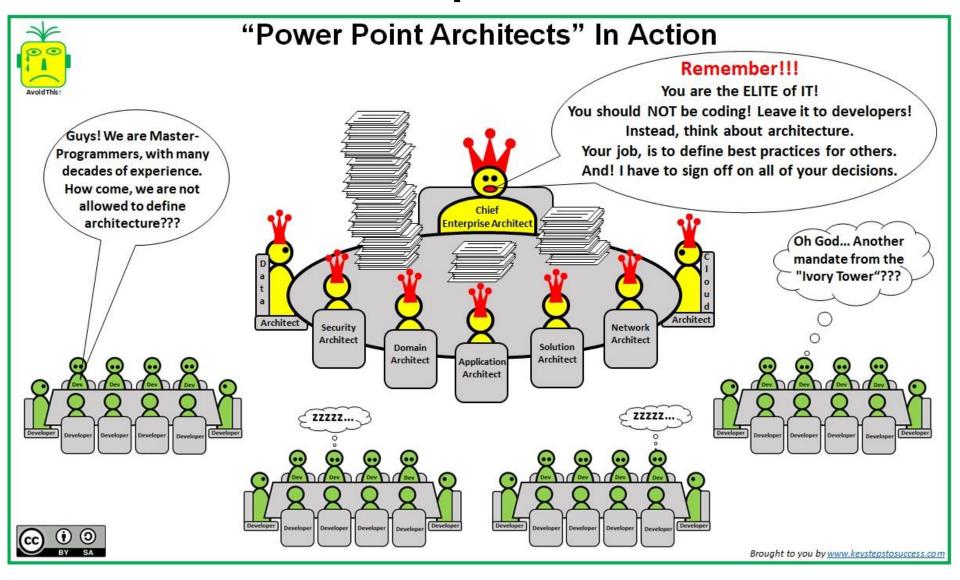
- > Efficient
- > Productive
- > Best
- **>**Good
- ➤ Optimized
- **≻**Ideal
- **≻**Cost-Effective



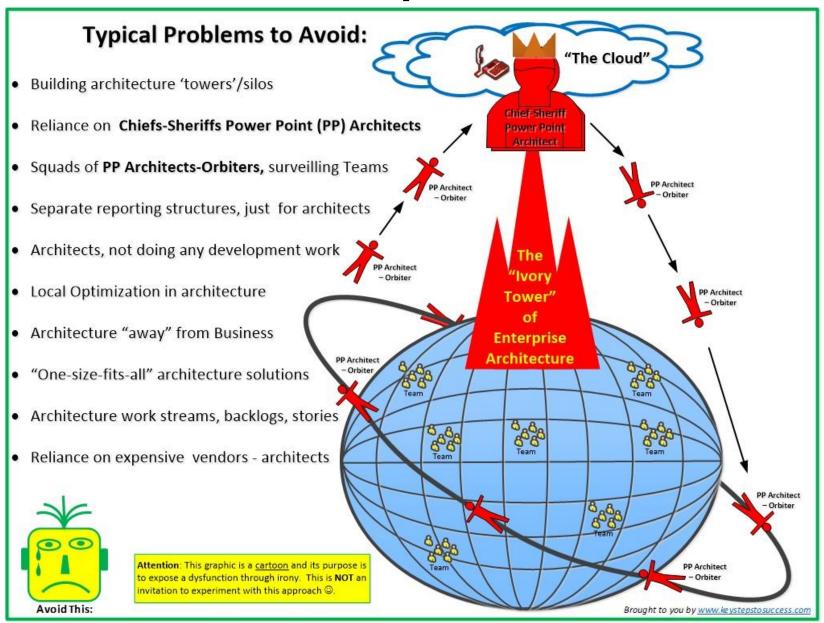
Local Optimization In UI/UX Design



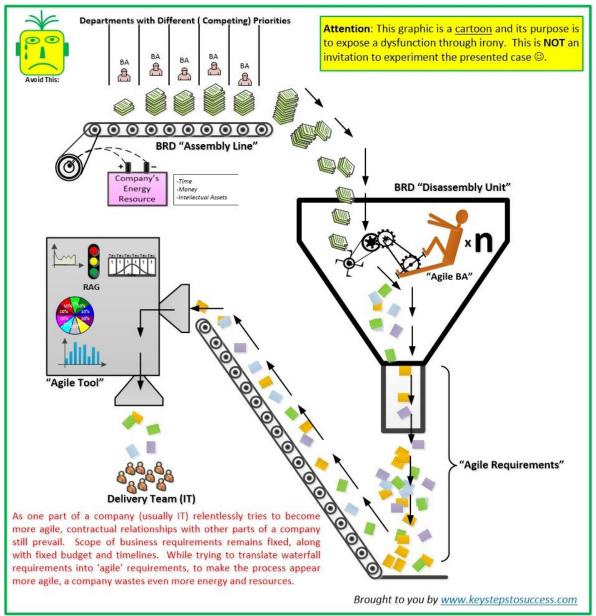
Sourced from: https://www.meetup.com/Design-Sprint-NYC/

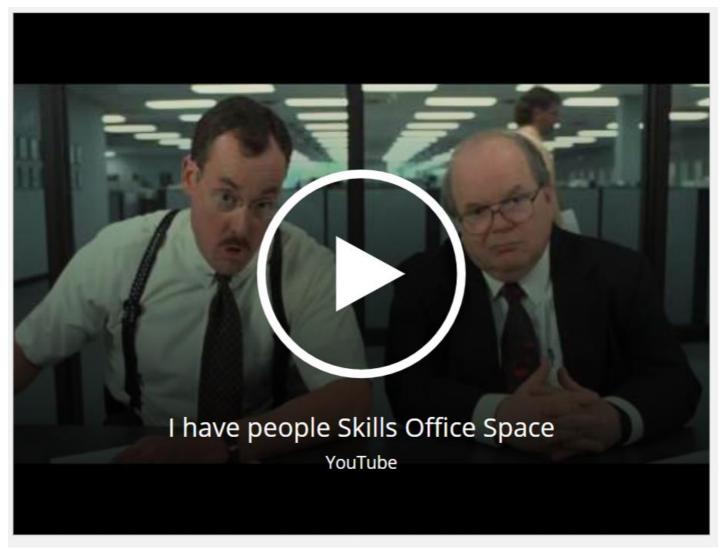


Sourced from: https://www.keystepstosuccess.com/agile-anti-patterns-with-irony-and-satire/



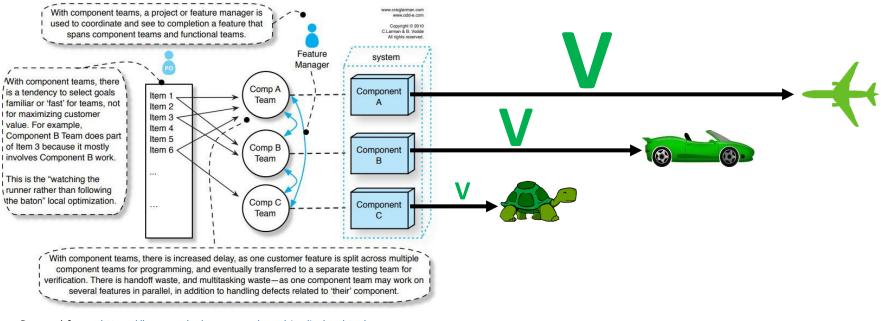
Sourced from: https://www.keystepstosuccess.com/agile-anti-patterns-with-irony-and-satire/





https://www.youtube.com/watch?v=hNuu9CpdjIo

Component Teams



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



Big Mistake # 2

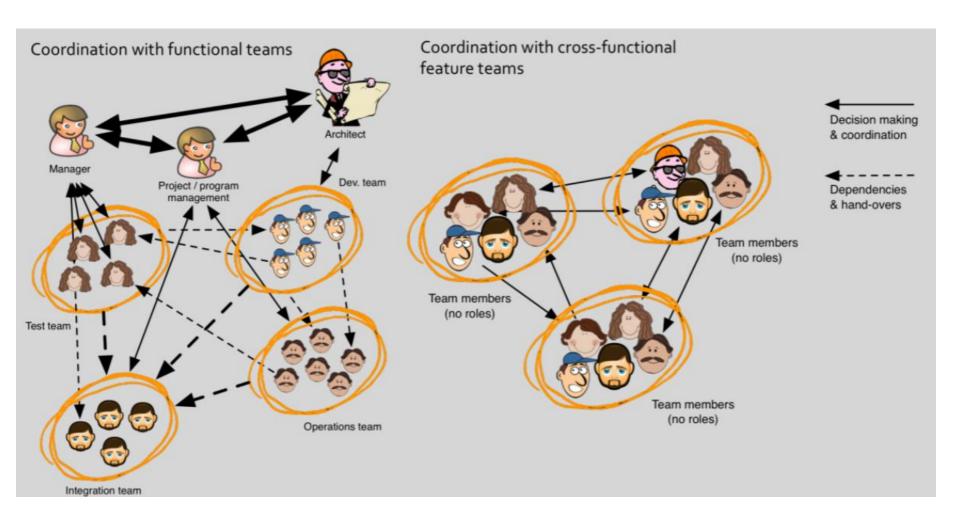
Can these velocities be used to <u>reliably</u> estimate <u>volume</u> and <u>complexity</u> of delivered features?

Synonyms for "Component Team"



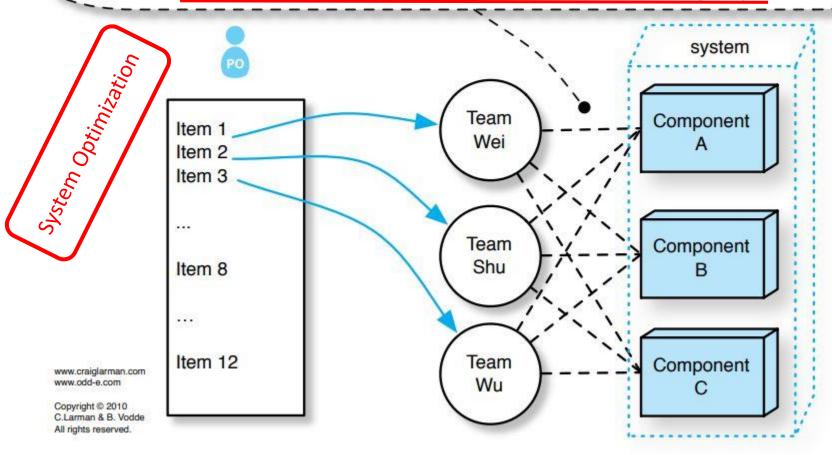
platform team co e or shared services tea micro-service team pplication team sur system team libly ry team servic team API tea front-end (or back-end) team DB team module team framework team DDD s unded-content team

Sourced from creative commons repository of Certified LeSS Trainers: https://less.works/courses/become-less-trainer

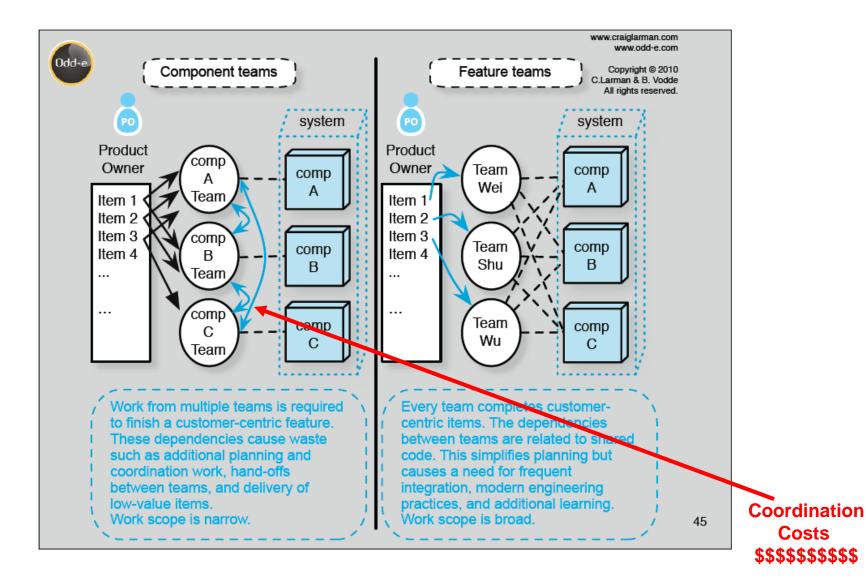


Sourced from creative commons repository of Certified LeSS Trainers: https://less.works/courses/become-less-trainer

With feature teams, teams can always work on the highest-value features, there is less delay for delivering value, and coordination issues shift toward the shared code rather than coordination through upfront planning, delayed work, and handoff. In the 1960s and 70s this code coordination was awkward due to weak tools and practices. Modern open-source tools and practices such as TDD and continuous integration make this coordination relatively simple.



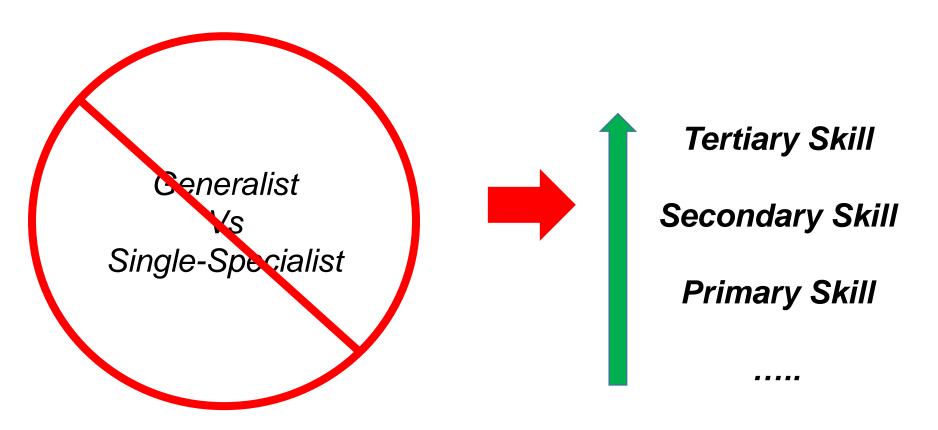
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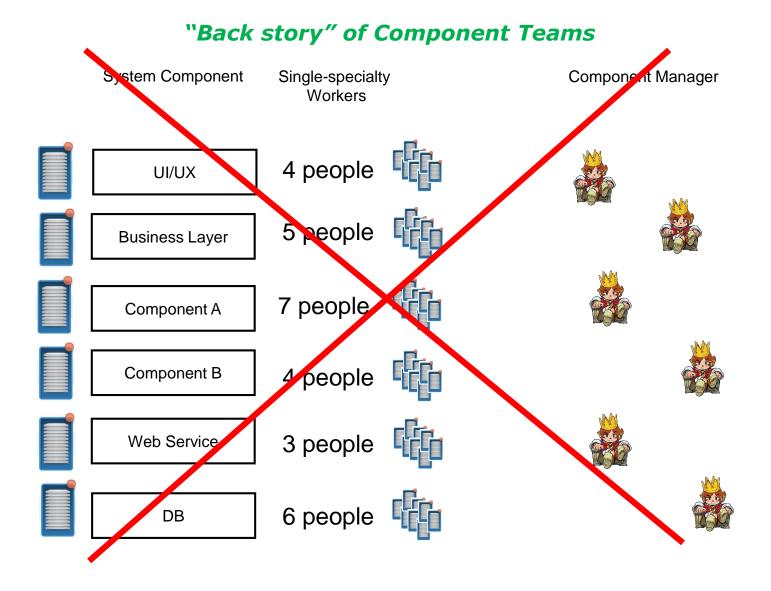


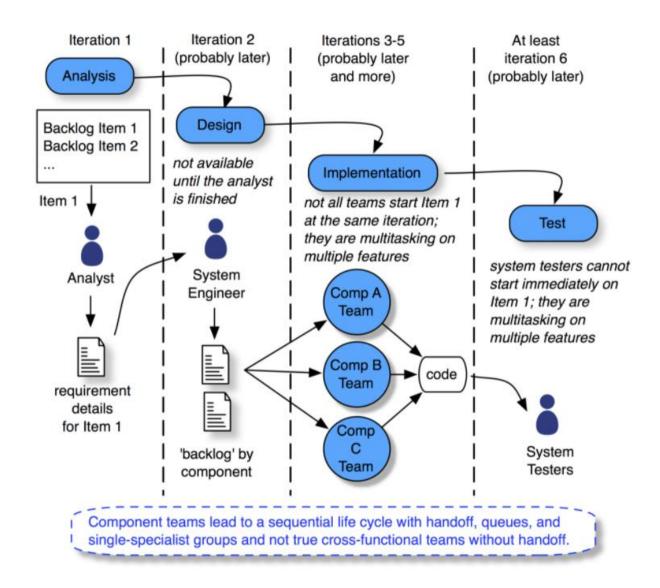
Sourced from creative commons repository of Certified LeSS Trainers: https://less.works/courses/become-less-trainer

Costs

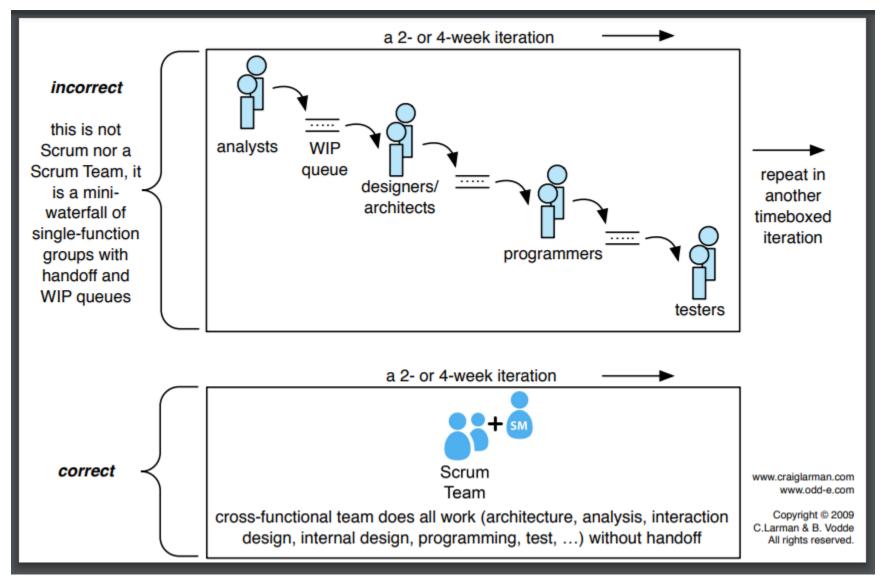
Avoiding False Dichotomies







Sourced from https://less.works/less/structure/feature-teams



Sourced from https://less.works/scaling-book-images/scaling-agile-lean-development-thinking-tools/chapter-8-single-function-groups-en.pdf

Seeing (and Hearing) Local Optimization

"Everyone is doing their best yet overall systems throughput is degrading. How can that be?" This is the paradox of **local optimization** —when a person or departmental decision maker optimizes for the local view or self-interest. The party making the decision frequently *believes they are making the best decision*, but because 'best' is a local optimization, in fact it sub-optimizes overall system throughput. This is a result of "silo mentality," misunderstanding, fear, limited information, delayed feedback, ignorance, careerism, avarice, and other common *organizational learning disorders*.

Team Structures

Org. Structures

Documentation

Definition of Done

Backlogs

Role Definitions

Product Design

Goals & Metrics

Q&A