Dependency Management Is Wasteful

Consider Dependency Reduction.

Synchronous Dependencies != Asynchronous Dependencies.

presented by: Gene Gendel



to

Abbott Curiosity Lectures

About Gene Gendel and KSTS Consulting





Gene Gendel is an organizational design consultant, adaptive & lean coach and trainer, and independent adviser to senior leadership. Gene is a widely recognized, world-class trainer/instructor, and is mainly focused on organizational design and product centricity, the experience for which he has gained, over the decades of deeply embedded coaching and consulting. Gene's <u>clients</u> represent a wide industry spectrum. Almost 15 of 20+ years of his professional experience Gene has dedicated to working with companies of various sizes and lines of business, trying to help them improve internal dynamics, organizational structure and becoming a better place for people to work in. 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 of other people and to ensure that his followers gain autonomy after Gene "coaches himself out of the job". Over the last decade, Gene's big focus has been on large financial institutions and consulting companies that struggle with moving away, from traditional budgets and portfolio/program/project work decomposition, towards more adaptive/flexible budgeting and better clearly products (product-centric, customer-focused development).

Gene is the co-founder of *KSTS Consulting*, the only company in the United States that has the credential of a <u>Certified LeSS Coaching Company</u>. Gene's, highly indemand LeSS <u>classes</u>, both private and public, are based on advanced system modelling and rich exosystemic perspective that includes intra-organizational dynamics and market realities.



About Us



One Stop-Shop For:

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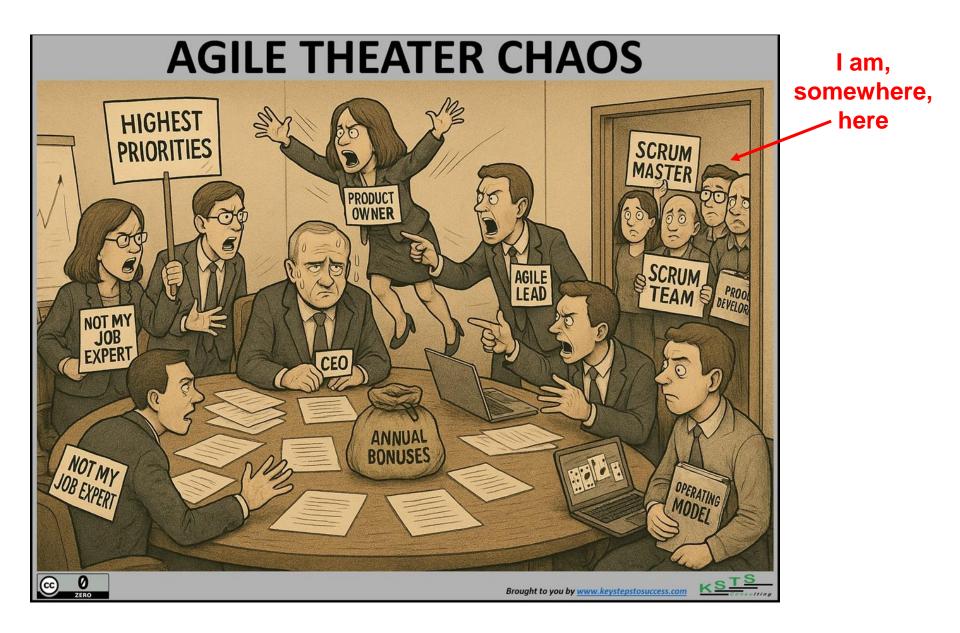


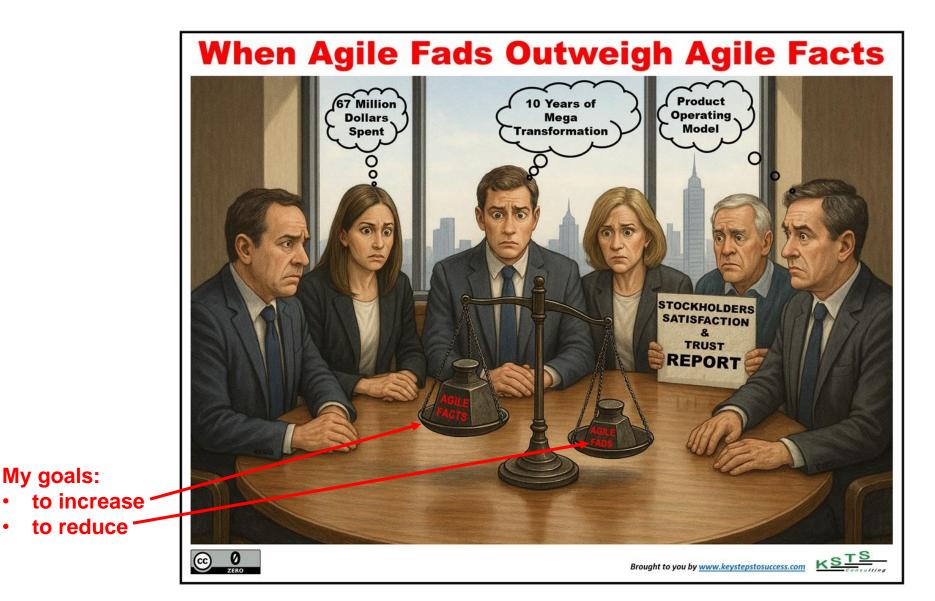
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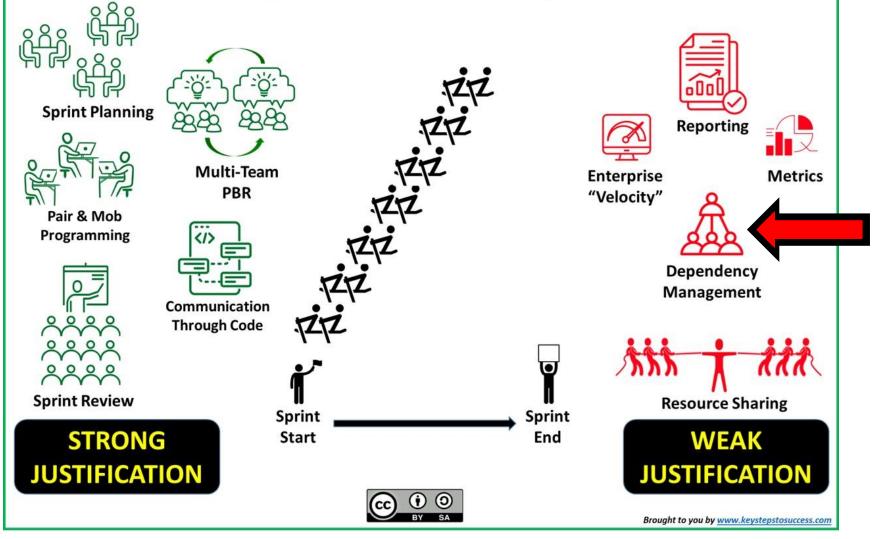




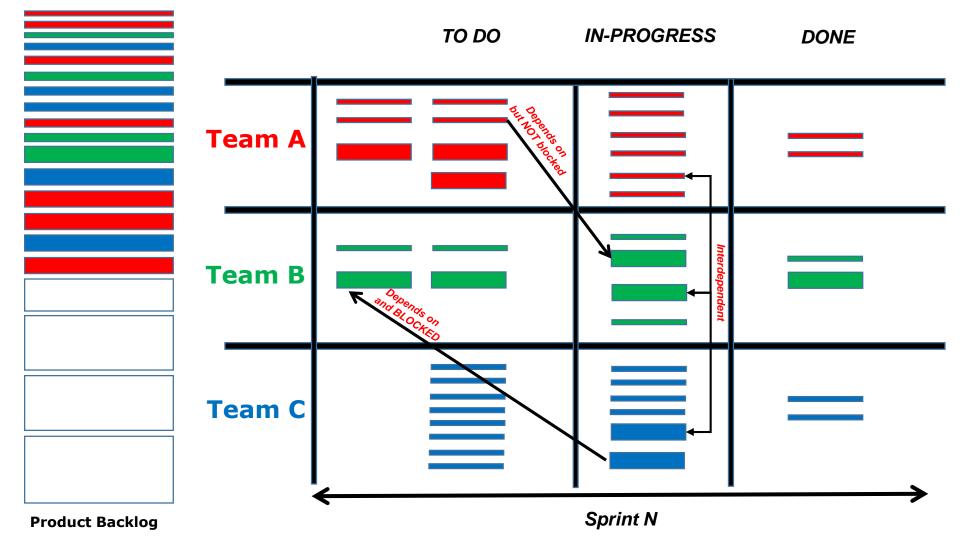
no so much we care about Al Overview In programming, synchronous dependencies mean that one operation must complete before the next can start, while asynchronous dependencies allow multiple operations to run concurrently. Synchronous execution is a blocking architecture, where each operation waits for a response before proceeding, while asynchronous execution is non-blocking, allowing tasks to run simultaneously.

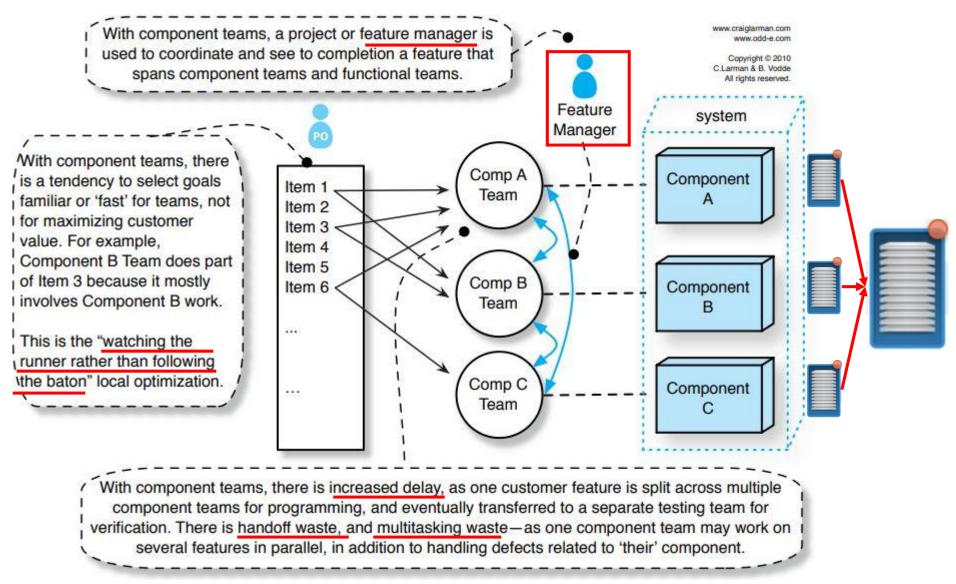
Synchronized Sprint Cadence:

Thoughtful Decision or Cargo Cult?

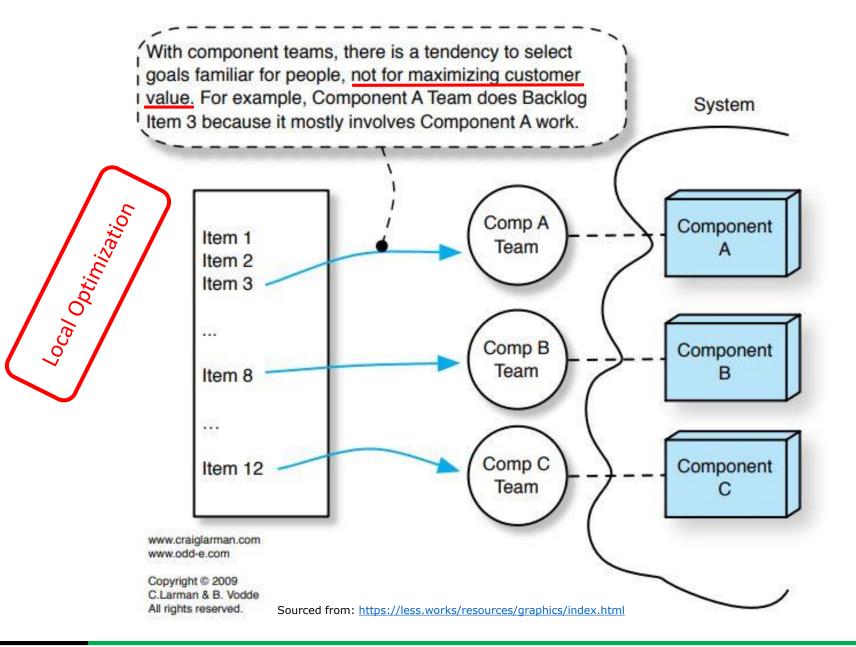


Cross-Team Work Synchronous Dependencies

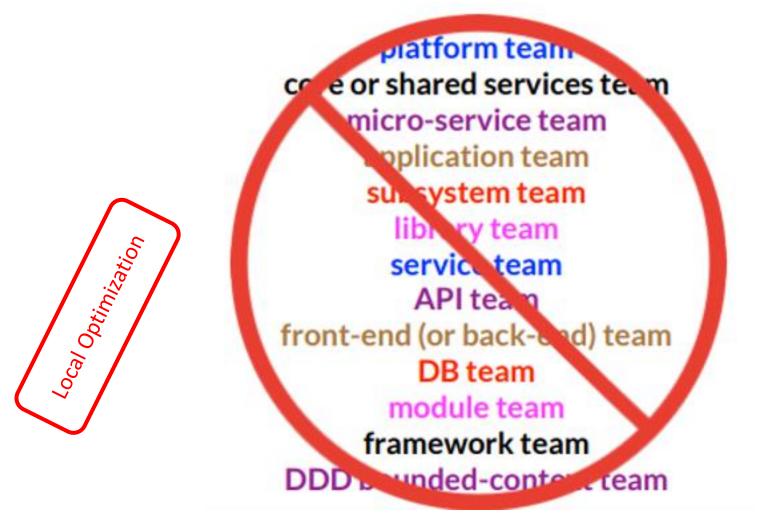




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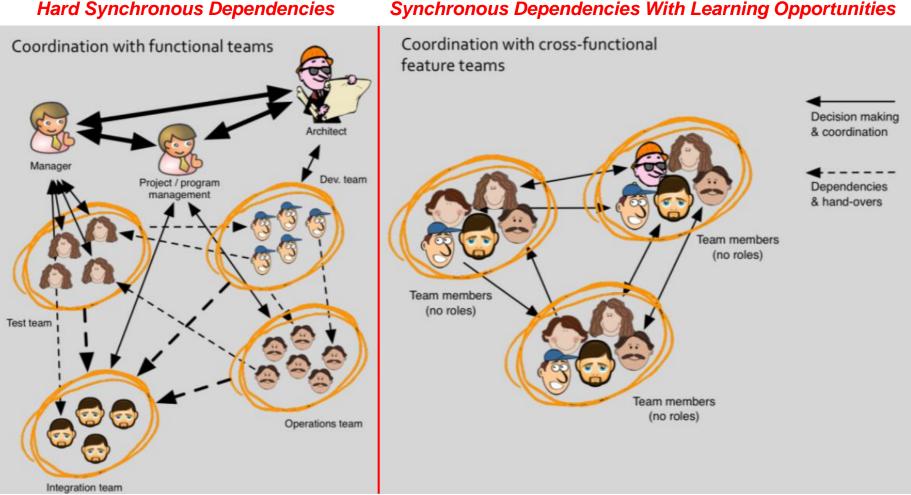
Synchronous Dependencies Become a HUGE Problem When....



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Gene Gendel, Certified Enterprise & Team Coach (CEC-CTC), Certified LeSS Trainer (CLT)

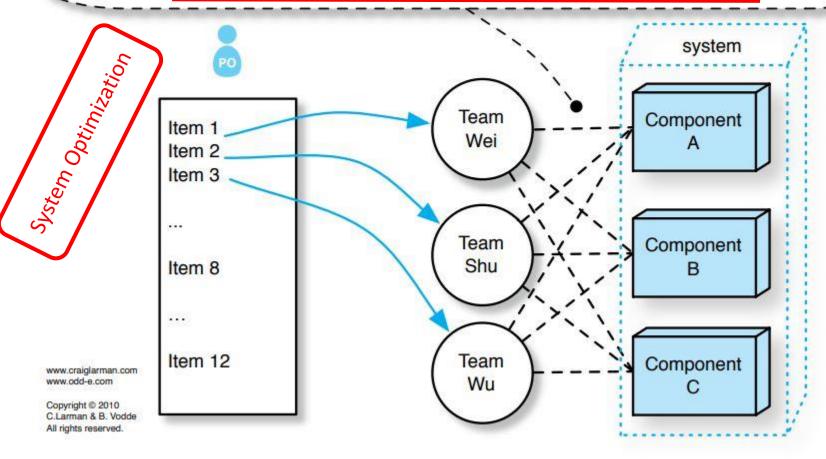
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Synchronous Dependencies With Learning Opportunities

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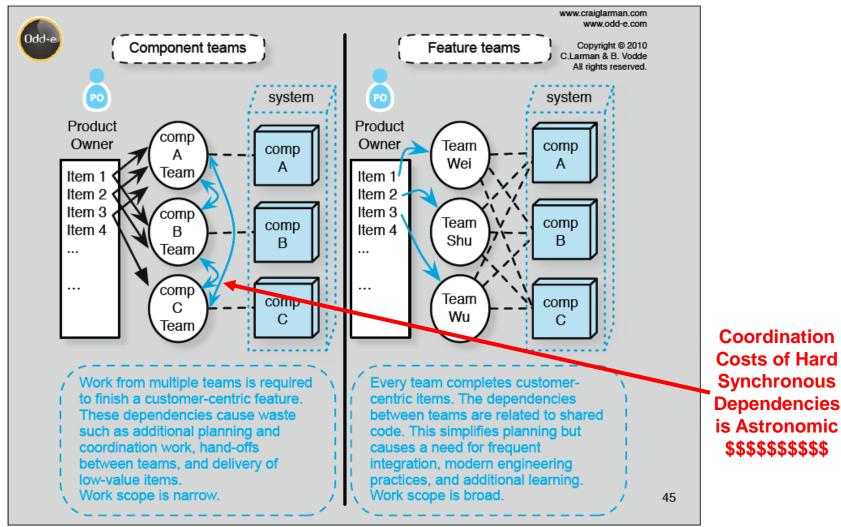
With feature teams, teams can always work on the highest-value features, there is less delay for delivering value, and coordination issues shift toward the shared code rather than coordination through upfront planning, delayed work, and handoff. In the 1960s and 70s this code coordination was awkward 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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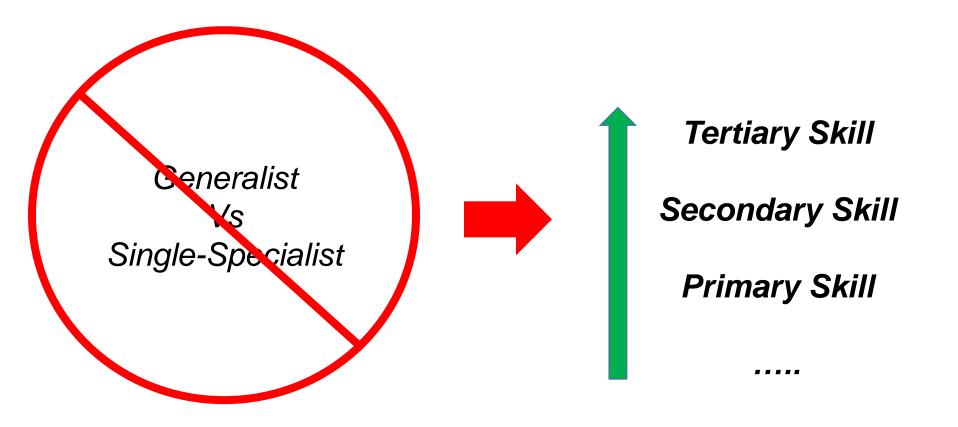
Hard Synchronous Dependencies

Synchronous Dependencies With Learning Opportunities

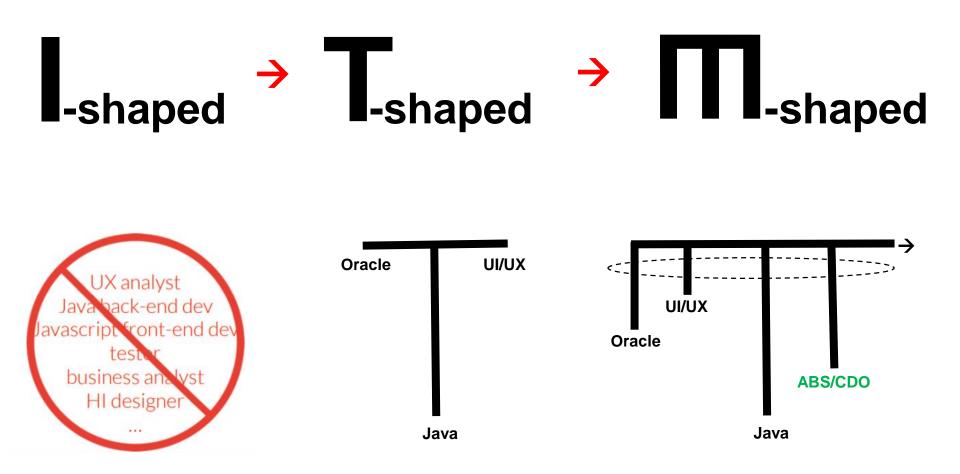


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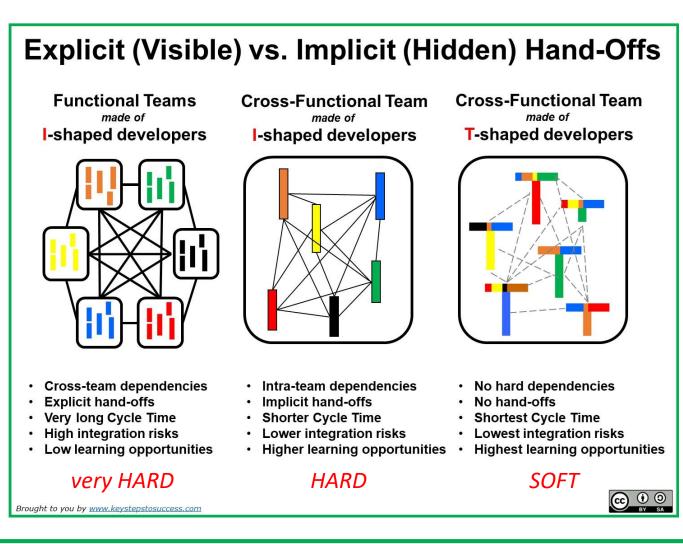
Synchronous Dependencies: from HARD to SOFT



Synchronous Dependencies: from HARD to SOFT



Synchronous Dependencies: from VERY HARD to HARD to SOFT



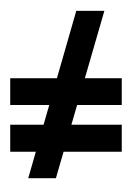
$N = \frac{n \times (n-1)}{2}$

n - number of communication nodes N – number of communication channels

- A cross-functional team is a group of people with different skills and expertise who work together to achieve a *common goal*.
- A cross-functional developer is a member of a crossfunctional team, which is a group of people with diverse skills working together to achieve a *common goal*.
- A full-stack team is a group of developers who work together to create a software product from start to finish, including both the front-end and back-end.
- A full-stack developer is a programmer who works on all aspects of software *product* development, from front-end to back-end.

False Equivalency Kills Innovation

\$450,000 NOT spent on education and crosstraining of developers

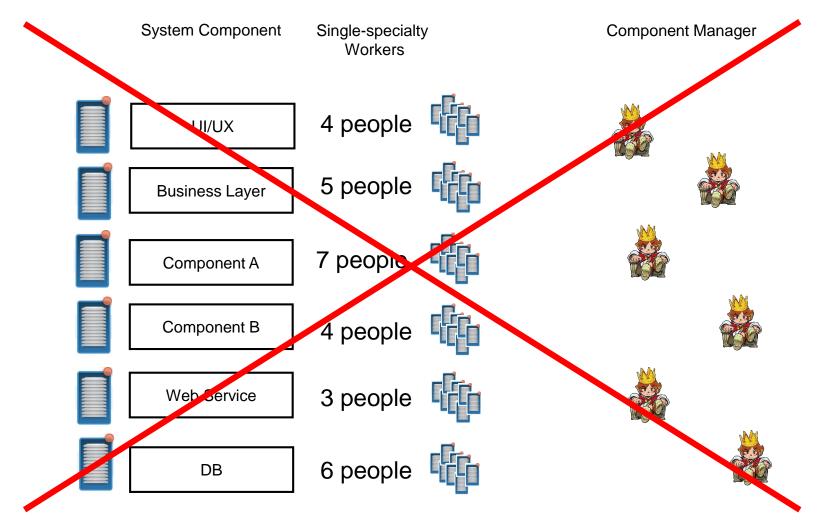


\$50M LOST in market opportunities, to competitors

...such a weak argument and poor judgement by a manager...

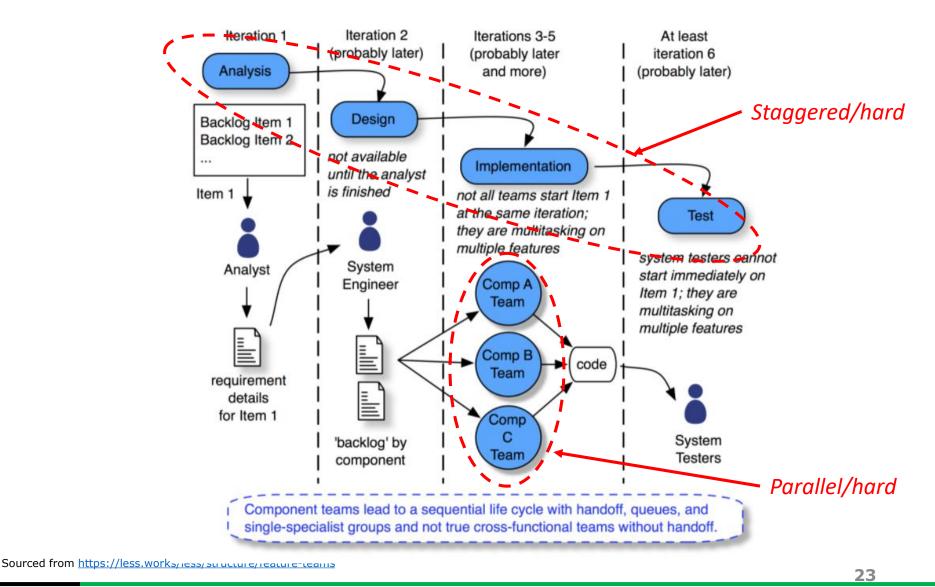
BIG IDEA: stop being penny-wise and near-sighted, when making long-term organizational design decisions

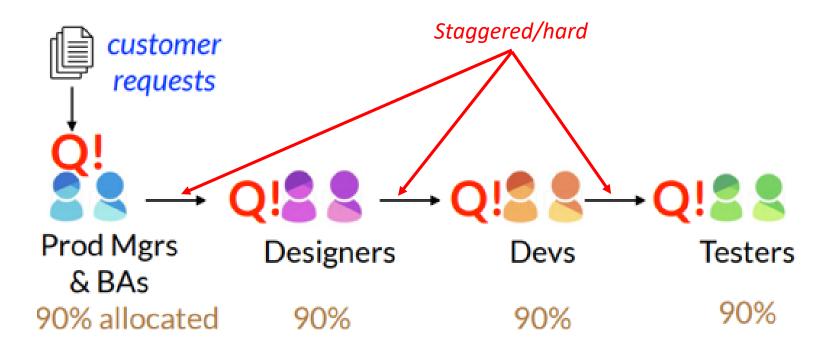
"Beneficiaries" of Hard Synchronous Dependencies



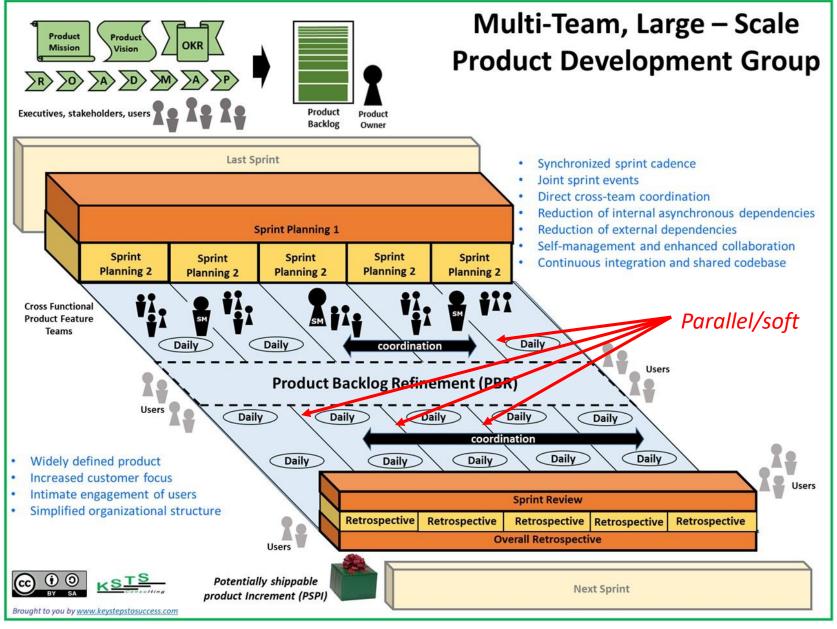
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Synchronous Dependencies





in a system with "servers" and Qs, plus variability, as *server resource utilization* increases ("people are 90% allocated"), total duration INCREASES



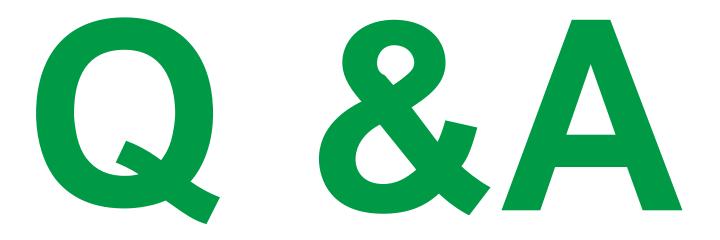
Gene Gendel, Certified Enterprise & Team Coach (CEC-CTC), Certified LeSS Trainer (CLT)

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Upcoming June 17-19 (3 sessions x 3 hours)



Registration from: https://www.keystepstosuccess.com/large-scale-scrum-training/



Synopsis

On my site: <u>https://www.keystepstosuccess.com/</u>

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On LinkedIn:

- Gene Gendel: <u>https://www.linkedin.com/in/ggnyc/</u>
- KSTS Consulting: https://www.linkedin.com/company/ksts-consulting/

On Meetup: https://www.meetup.com/large-scale-scrum-less-in-nyc/ (close to 6500)