Real-life Agile Scaling

Keynote - Agile Tour Bangkok Nov 21, 2015



Henrik Kniberg henrik.kniberg@crisp.se @HenrikKniberg









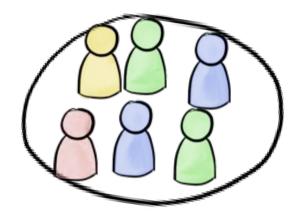




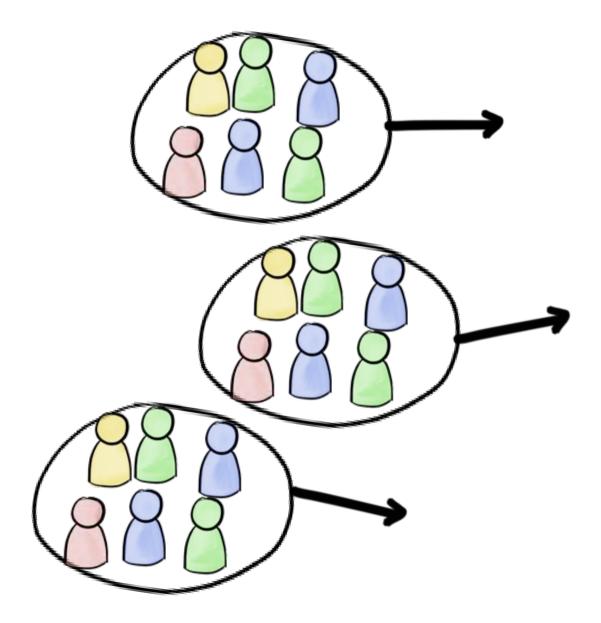
Author

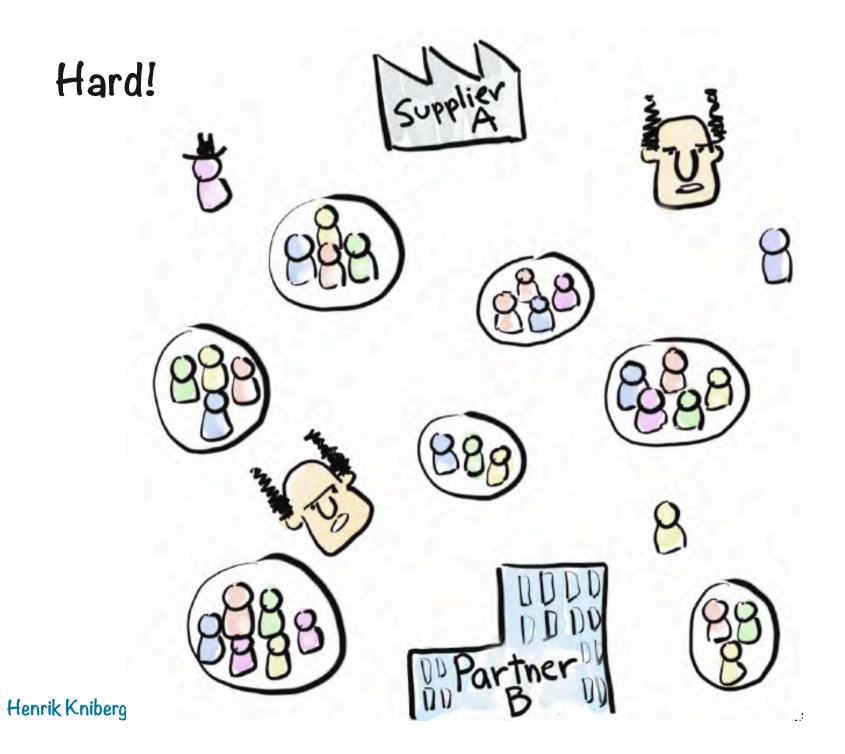


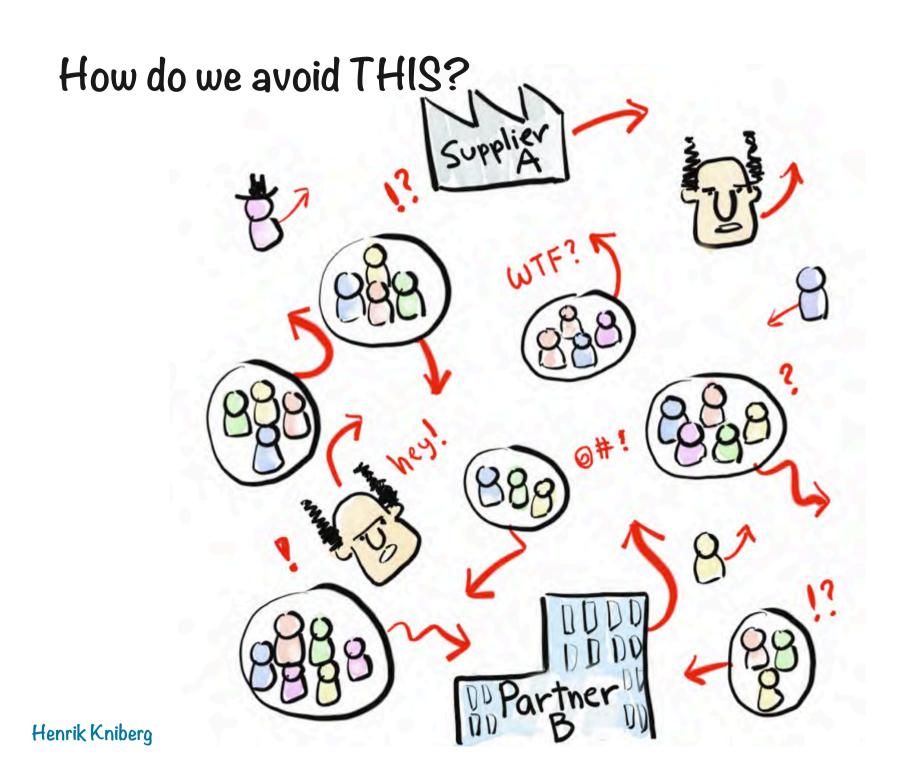
Not too hard



A bit trickier

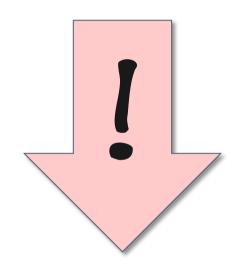






Beware of Scaling

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- Cost
- Complexity

Potential Upside:

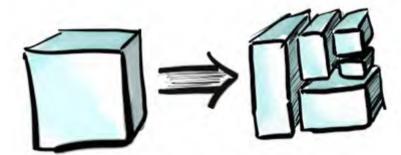
- Shorter delivery time more hands on deck, parallell work
- Better product access to wider range of competences

Potential Downside (Risk):

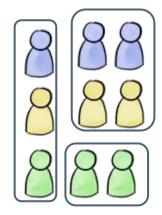
- Longer delivery time because of misalignment & dependencies
- Worse product because of bad communication

Stuff you need to figure out with multiple teams

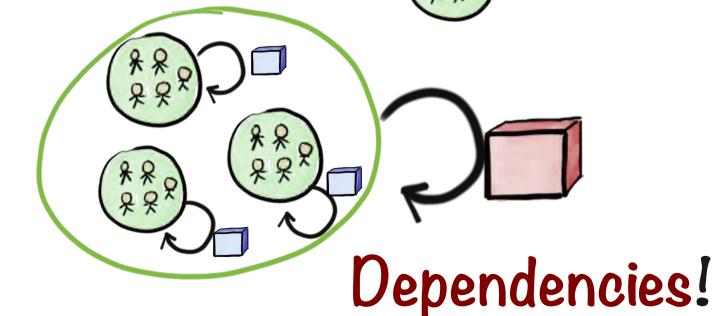
How to slice the elephant



Team structure



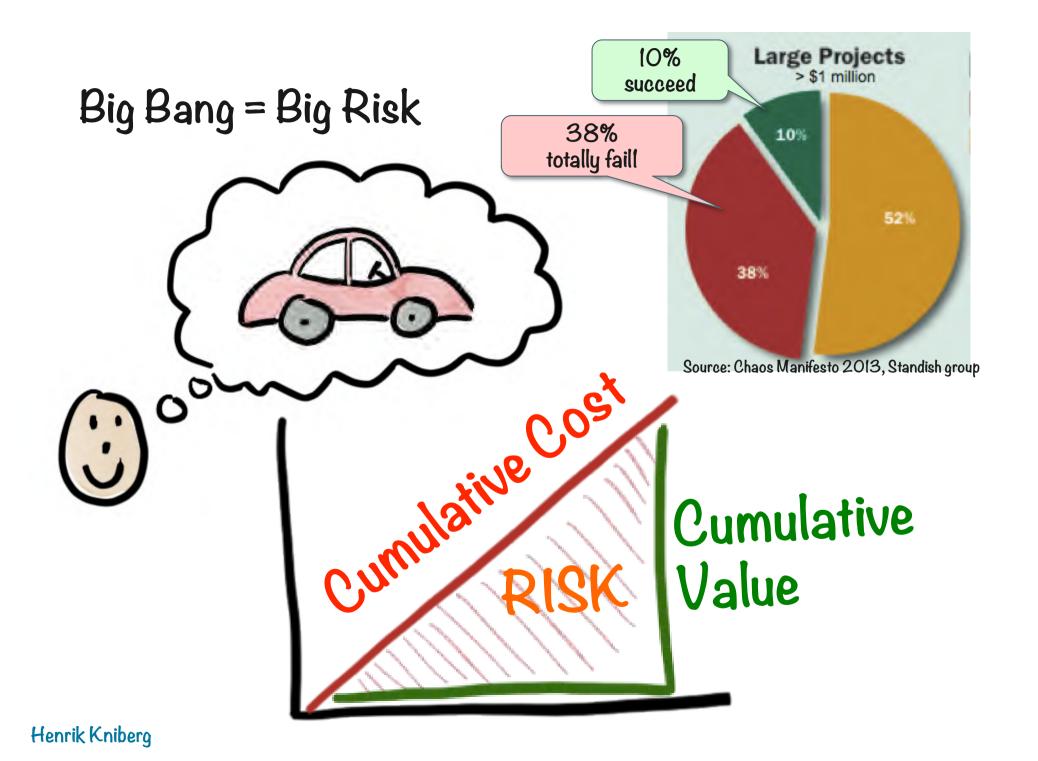
Feedback loop

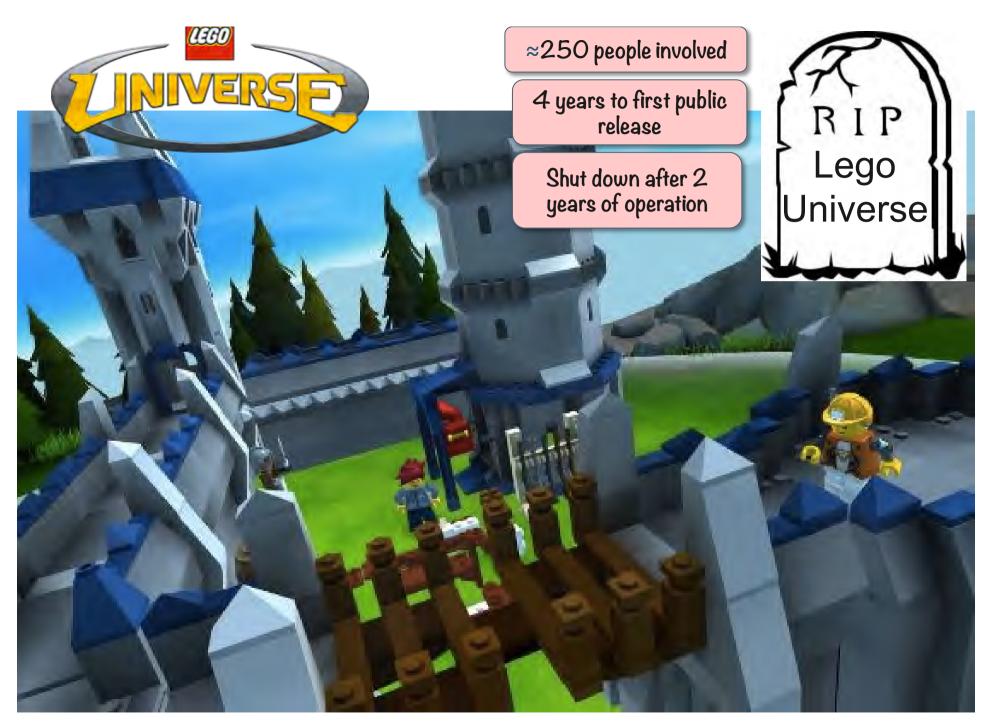


Team sync / alignment



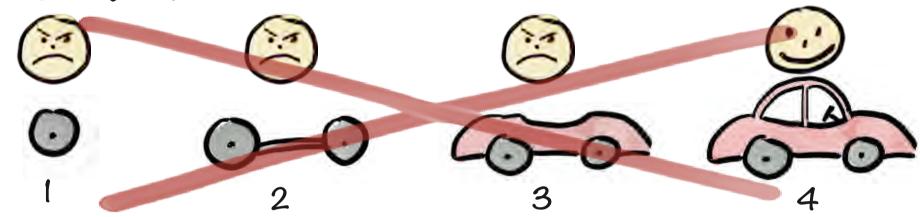
Slice the elephant



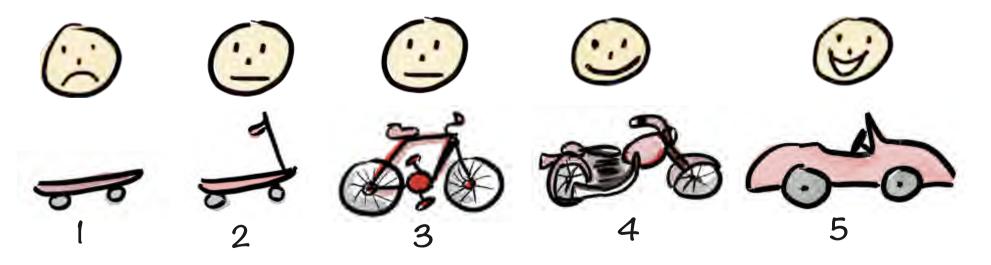


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Not like this....



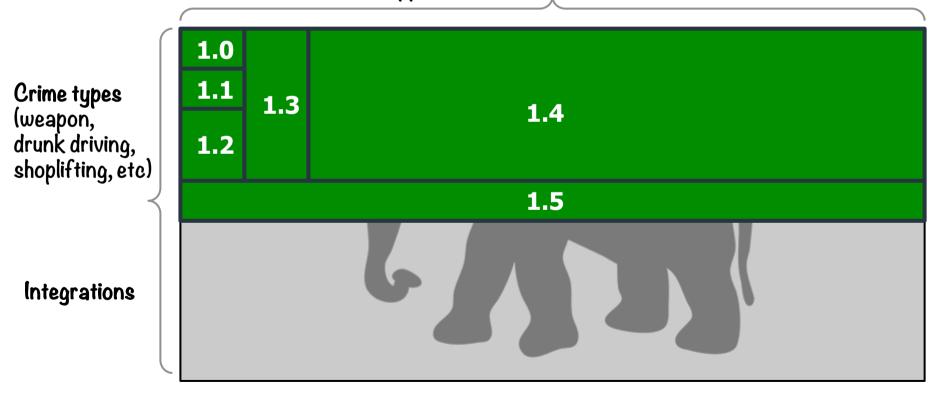
Like this!



Slice the elephant!



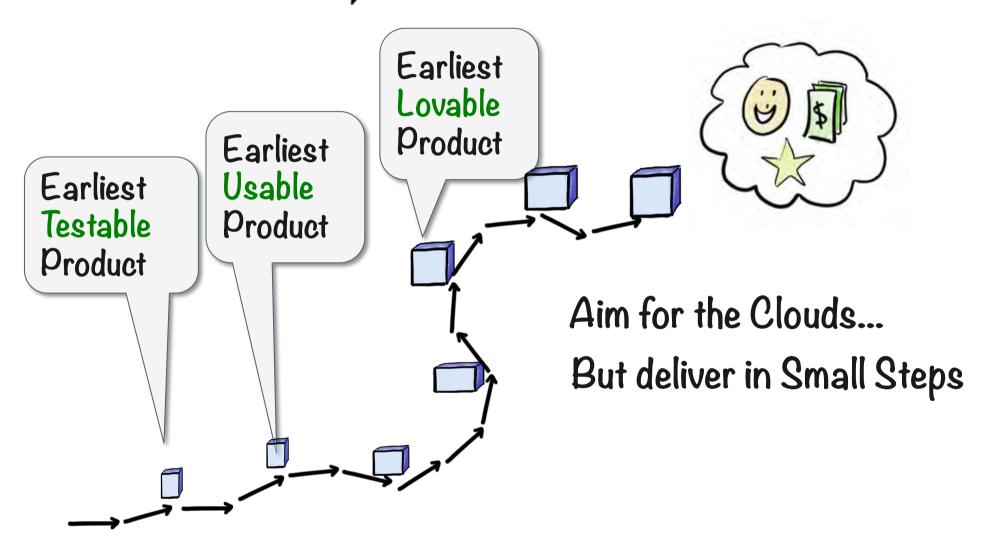
Region Östergötland, Uppsala, etc

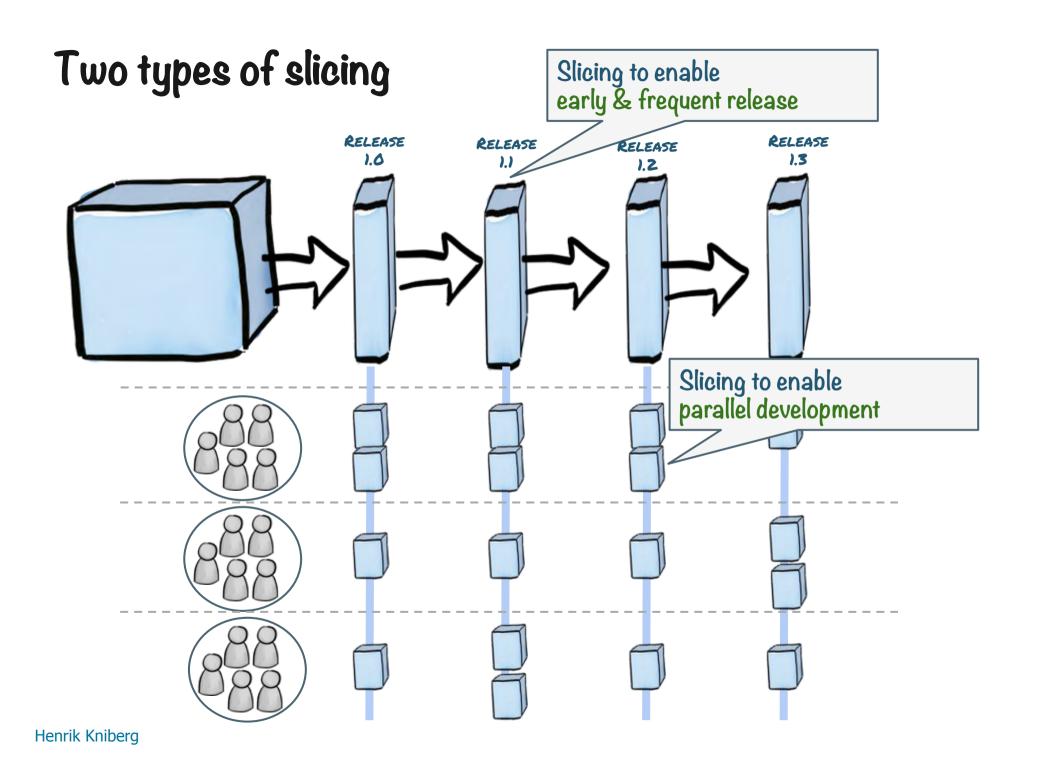


MVP - Minimum Viable Product



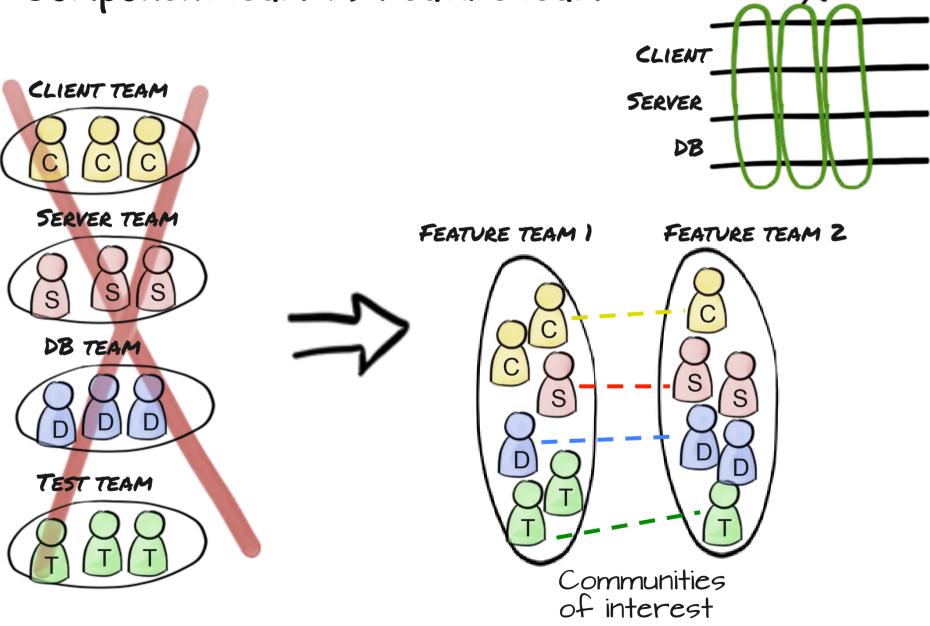
Minimum viable => Earliest testable/usable/lovable





Build a suitable Team Structure

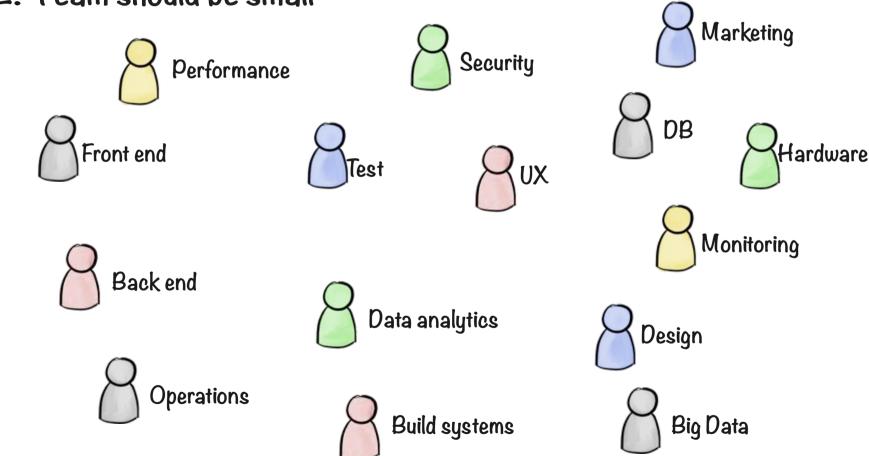
Component team vs Feature team



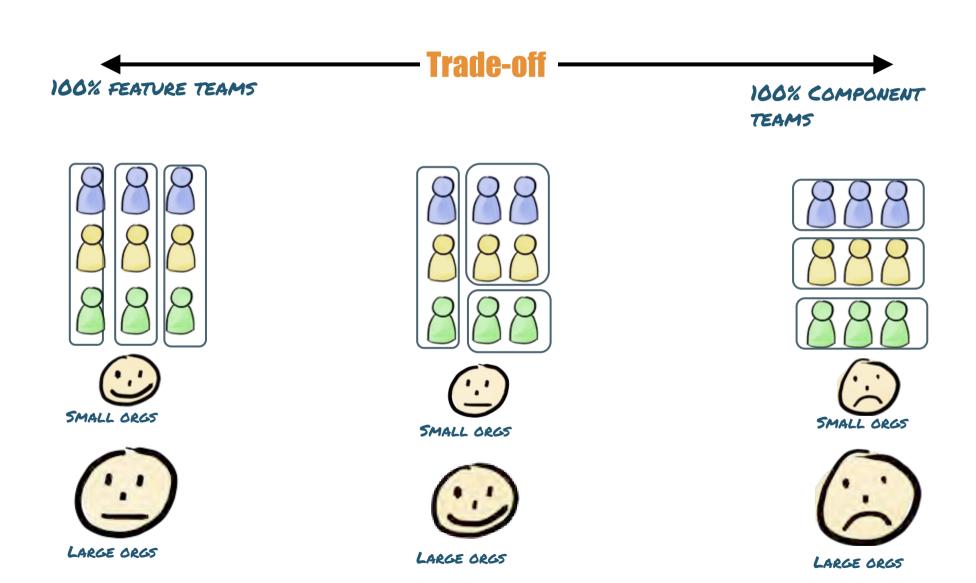
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Two conflicting goals (at scale):

- 1. Team should be "full-stack"
- 2. Team should be small



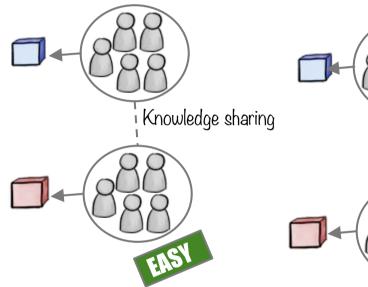
Team types - finding the right balance

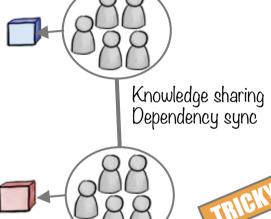


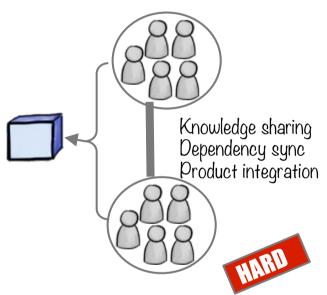
Types of dependencies

independent teams Building different products, but have dependencies

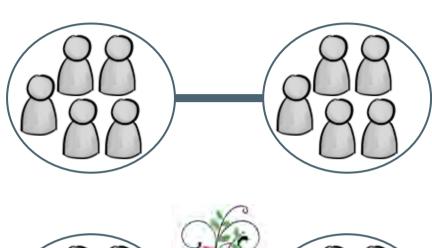
Building the same product (implicit dependency!)



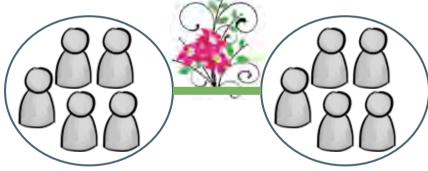




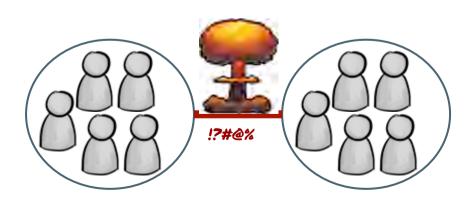
Dependencies



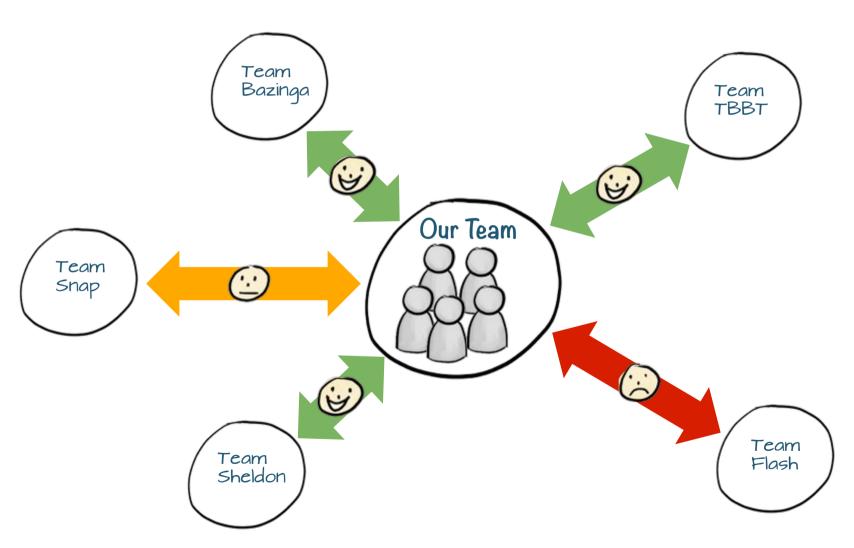
Good Dependency (aka "collaboration")



Bad Dependency



Example: Visualizing team dependencies





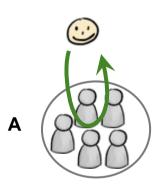
Example: Visualizing team dependencies



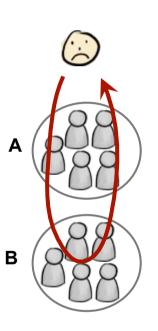
Good vs bad dependencies

Full-stack team.

Can deliver customer value independently.

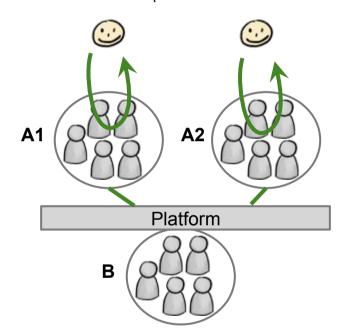


Coupled teams
A must sync with B in order to deliver customer value.



Platformized teams

Team Al and A2 are more effective because of team B's platform



Customer-driven platform teams

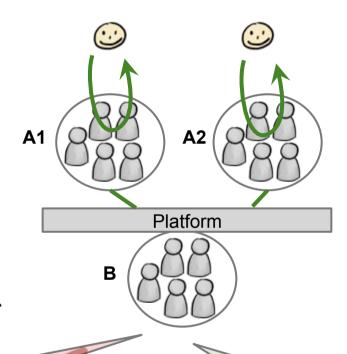
External-facing teams

Focus on delivering value to external customers

Internal-facing teams

Focus on making other teams more effective at delivering value to their customers.

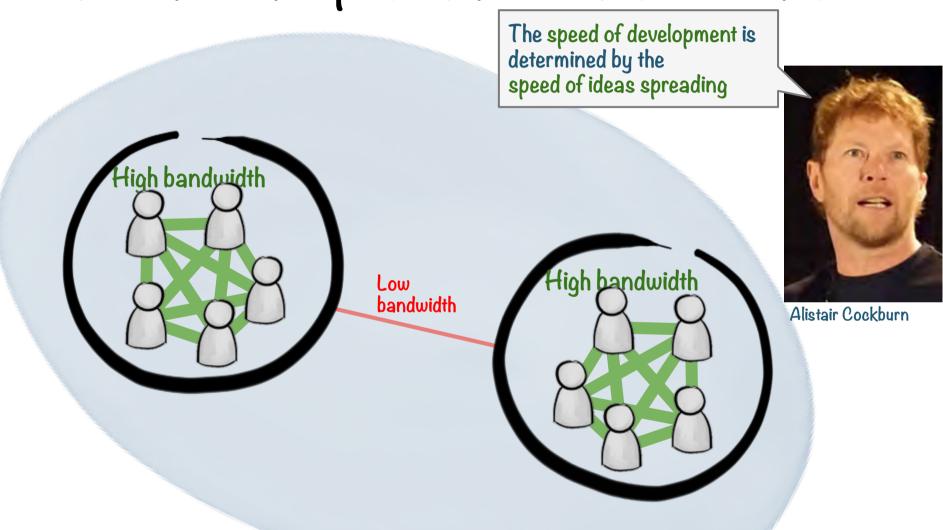
The other teams must obey us!



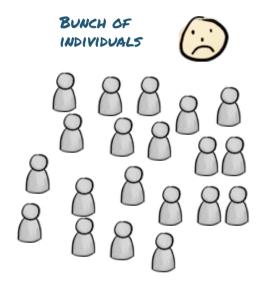
The other teams are our customers!

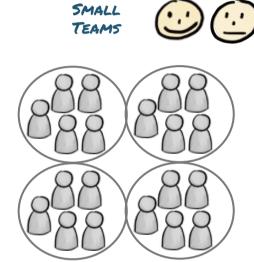
Key decision:

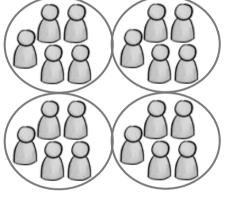
Where can we accept low-bandwidth communication?



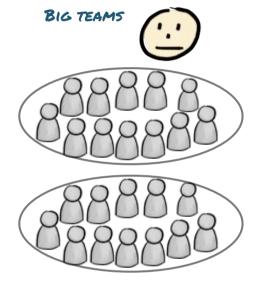
TEAMS OF TEAMS!

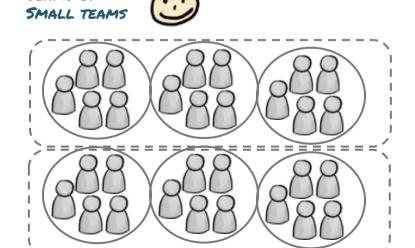






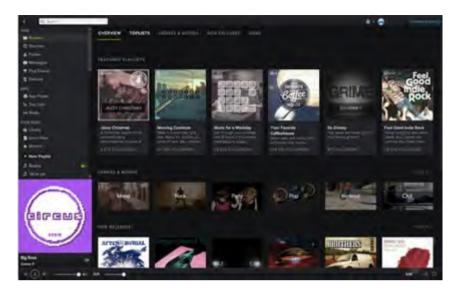
TEAMS OF



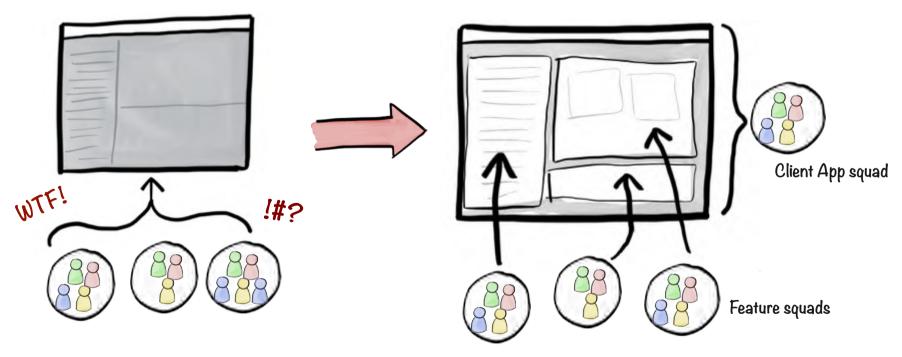




Decoupling to enable frequent releases





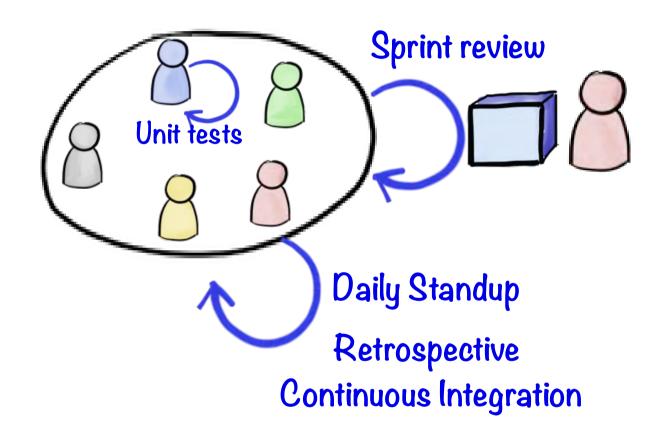


Guidelines for team structure

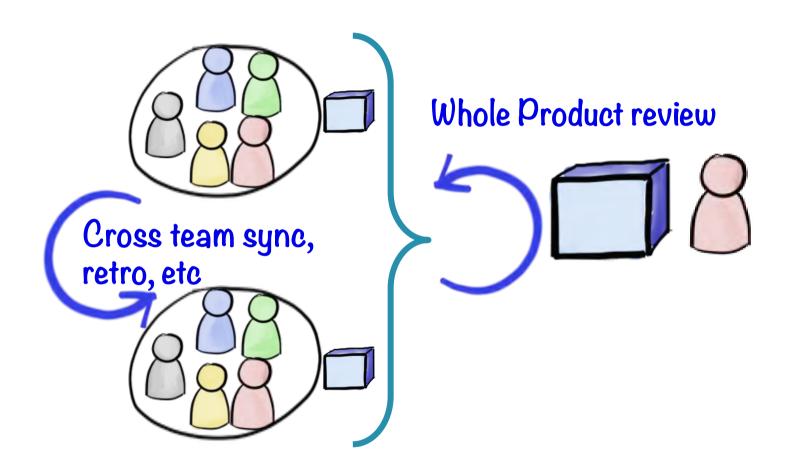
Try to ensure that each team:
□ is 3-9 people
☐ is stable(ish), full-time & co-located.
☐ has a mission
☐ has clear customers
☐ can prioritize between customers
(ex: via a PO role, or via clear strategic guidelines)
u cross-functional: has all skills and tools needed to
deliver value to customers
autonomous: doesn't get blocked waiting for other
teams and individuals.

Scale the feedback loop

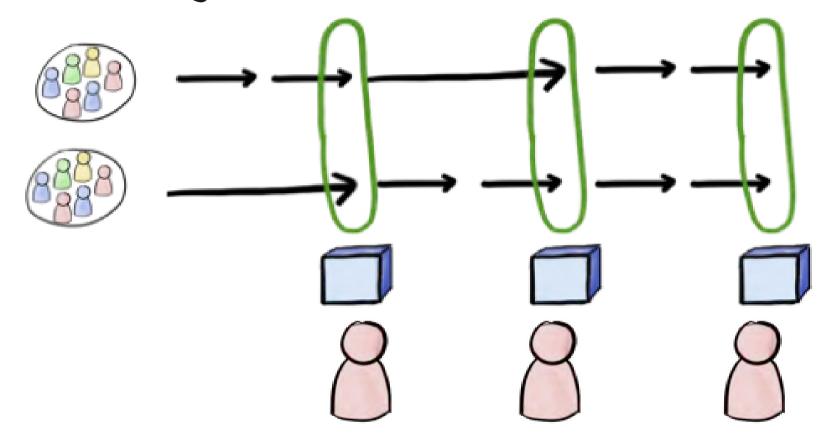
Single team feedback loops



Multiteam feedback loops

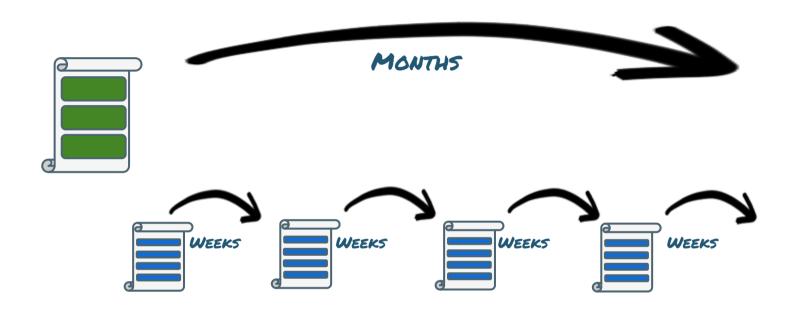


Pattern: Integration Cadence

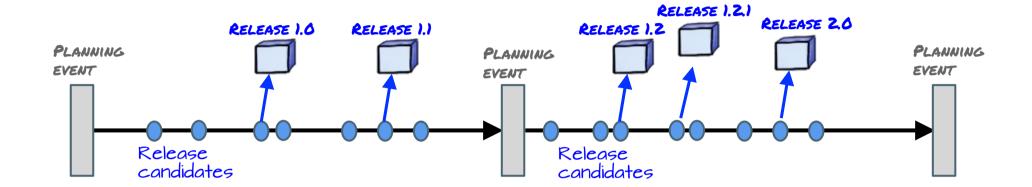


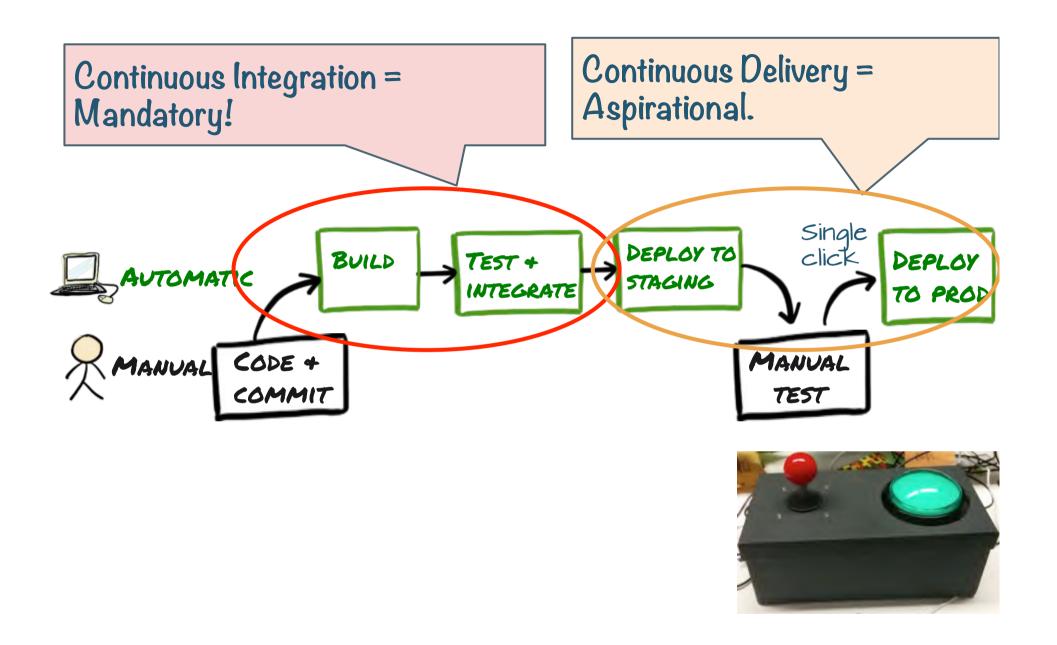


Pattern: 2-tier planning/alignment



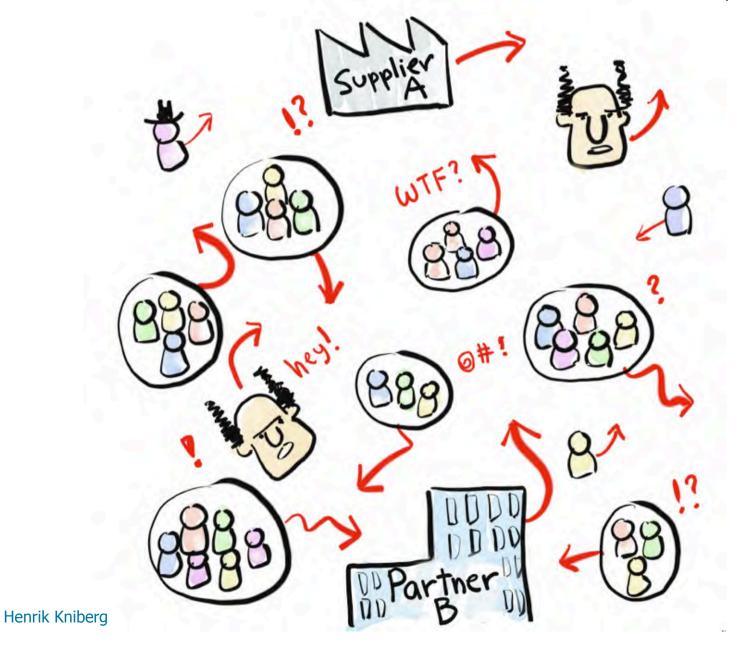
Pattern: Plan on a cadence, release on demand



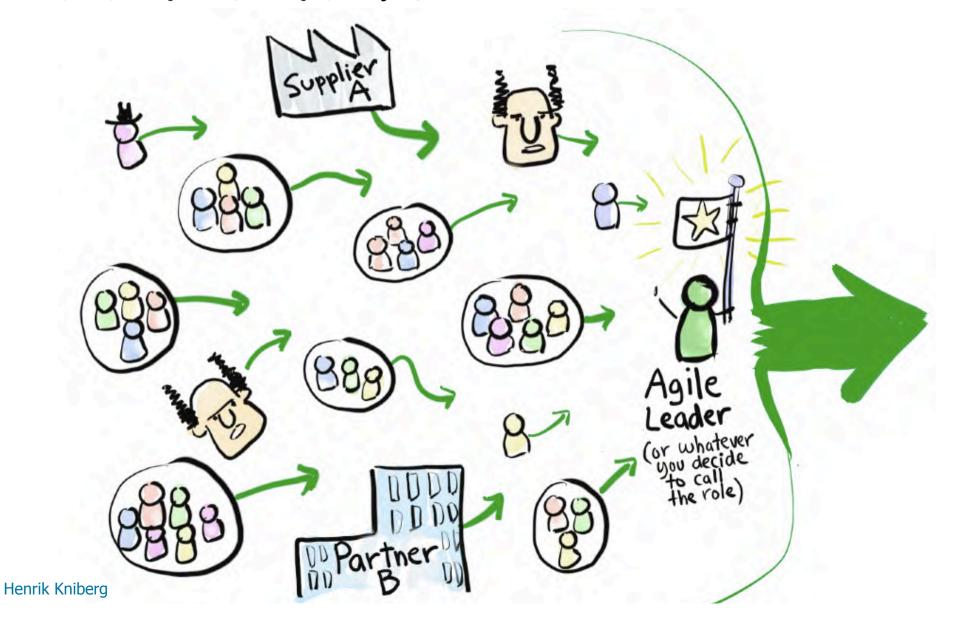


Get everyone aligned

Misaligned teams move very slowly

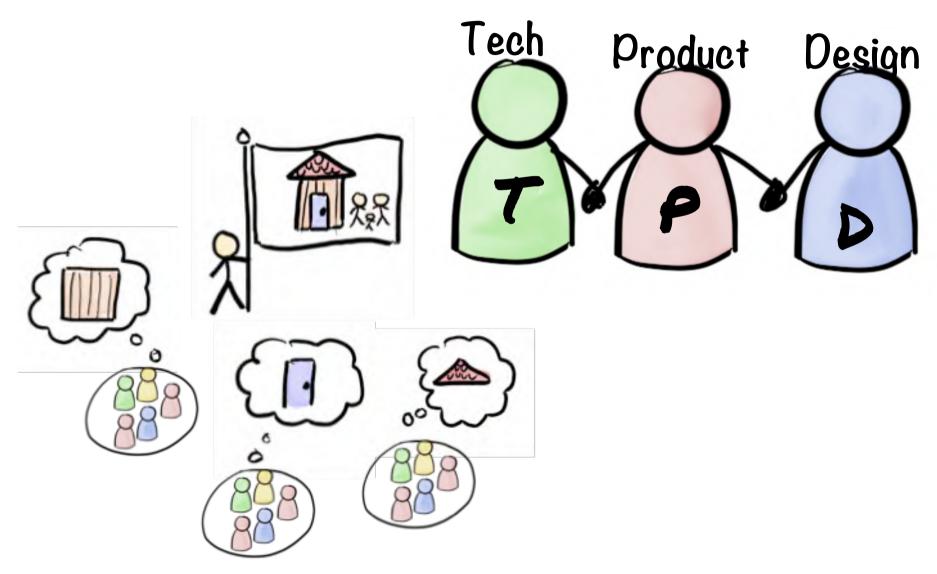


More teams = more likely that you will need dedicated leader(s)

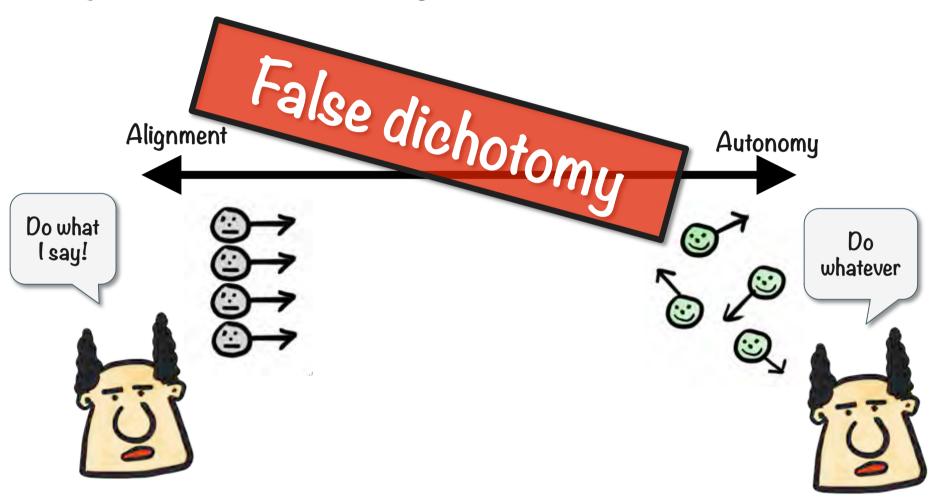


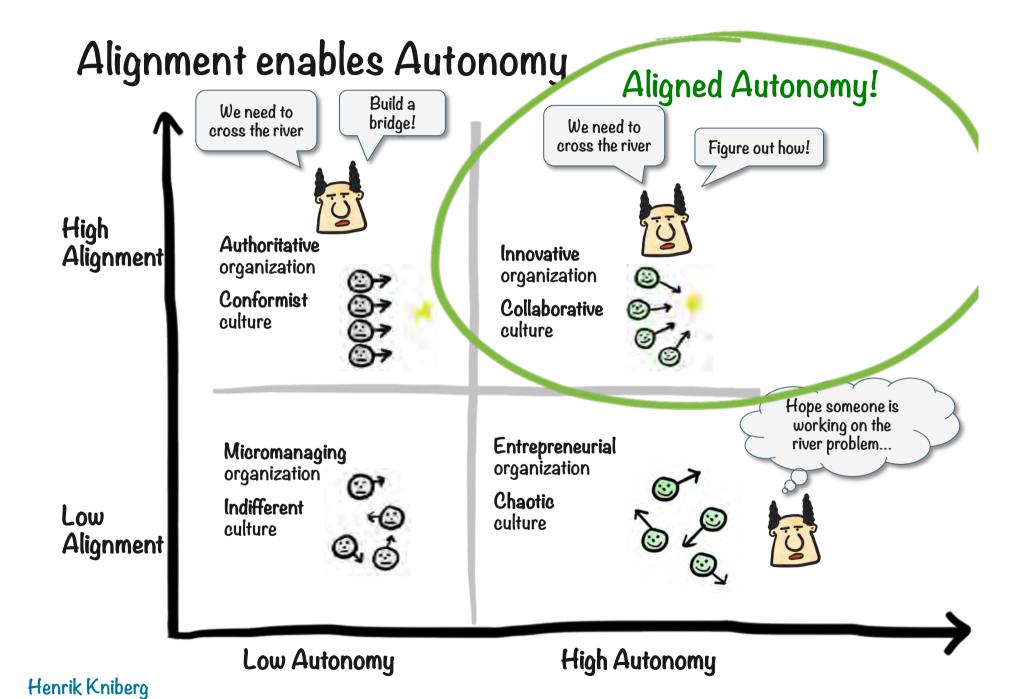


Example: Leadership "Trios"



Alignment & Autonomy







Example: Big-room planning/alignment at Lego





2 days, 19 teams, 150 people



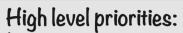


Demo video – what have we accomplished?





Lightning talks

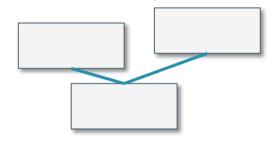


1. .

2....

3.....

Architecture vision / priorities / constraints



Mission	Inspire and develop the builders of tomorrow	
Aspiration	Globalize and innovate the LEGO system-in-play	
Promises	Play Promise Joy of building. Pride of creation	Partner Promise Mutual value creation
	Planet Promise Positive impact	People Promise Suceed together
Spirit	Only the best is good enough	
Values	Imagination - Creativity - Fun - Learning - Caring - Quali	



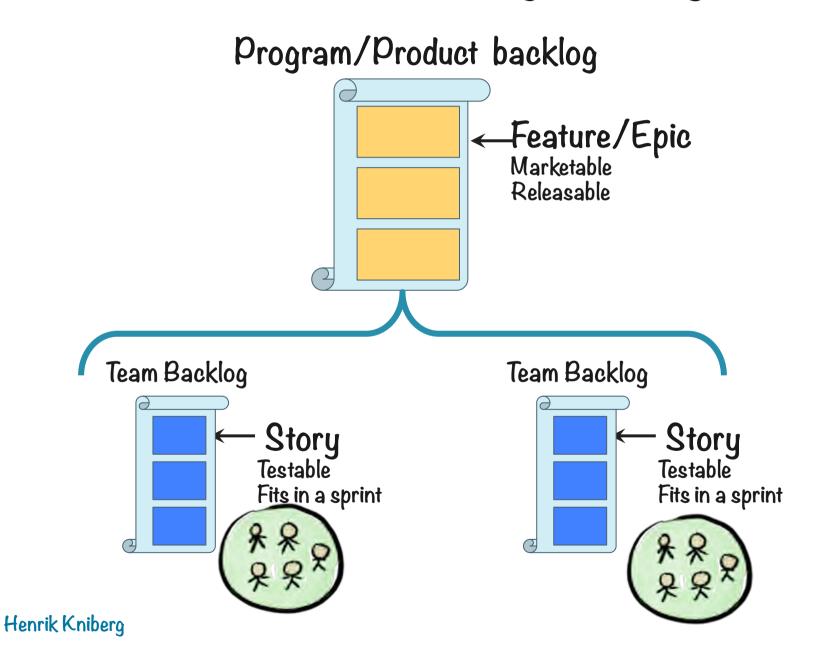






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Pattern: Different levels of granularity



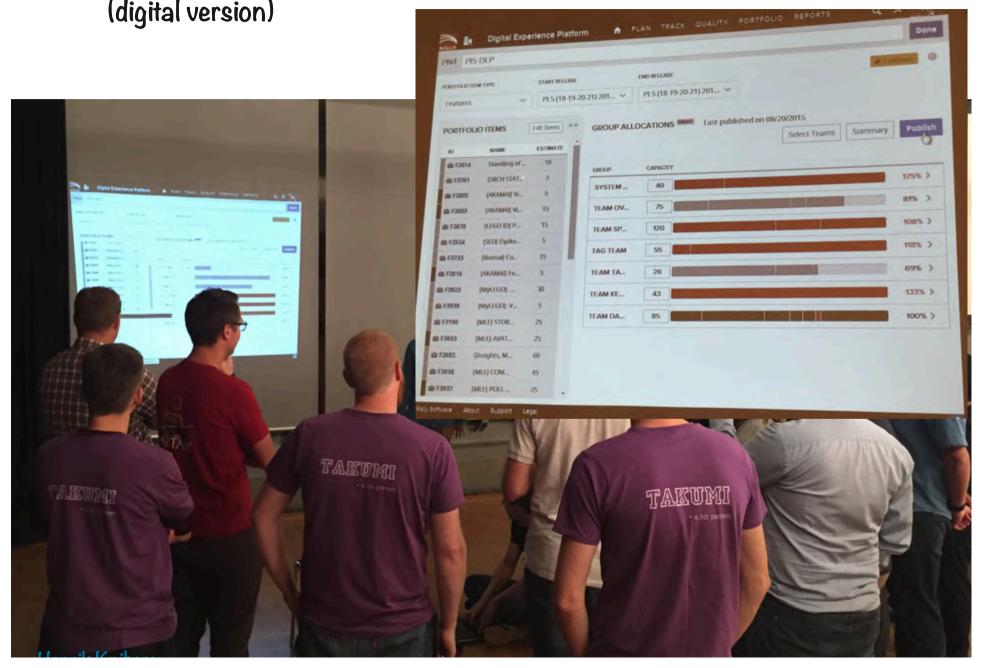


Team breakout: Pulling from the program backlog





Team breakout: Pulling from the program backlog (digital version)





Team breakouts

Law of 2 feet....



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Program Board (a.k.a Dependency Board)





Early detection of dependency problems





Scrum of Scrums = dependency sync





Simpler version of dependency sync





Risk board (per project/epic)





Management review / problem solving

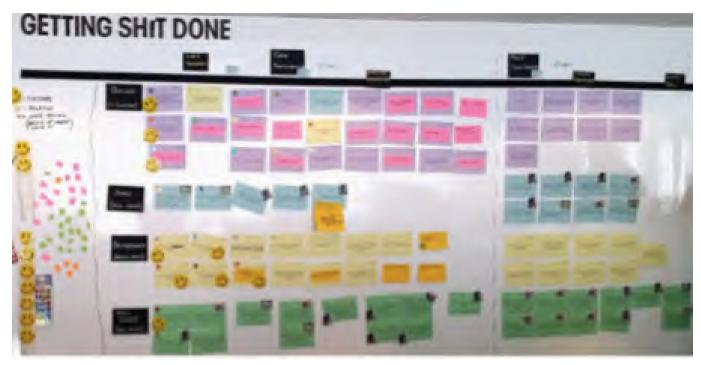




Management feedback & commitment to help

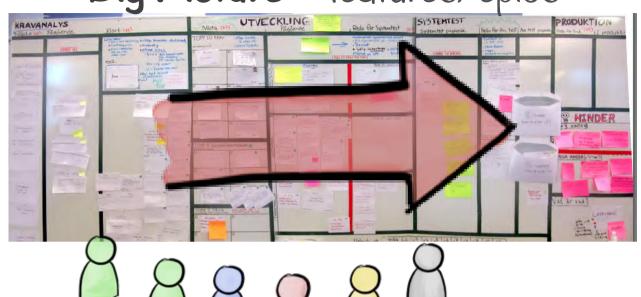


Pattern: Information radiators



- In the hallway
 Or in a War Room Zen Room

Big Picture - features/epics



Team 1 - stories



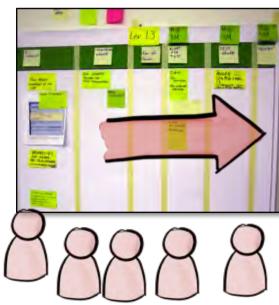
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Team 2 - stories



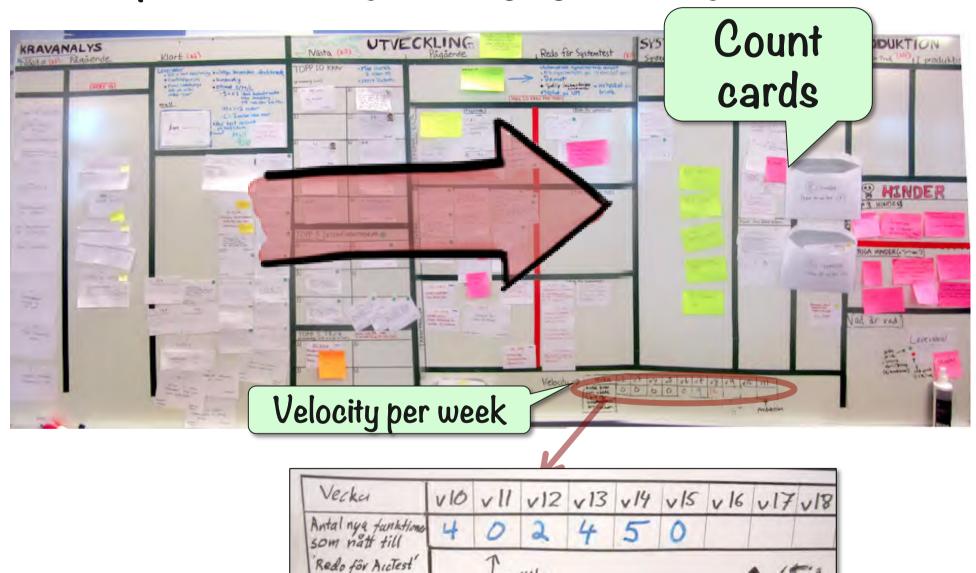


Team 3 - stories



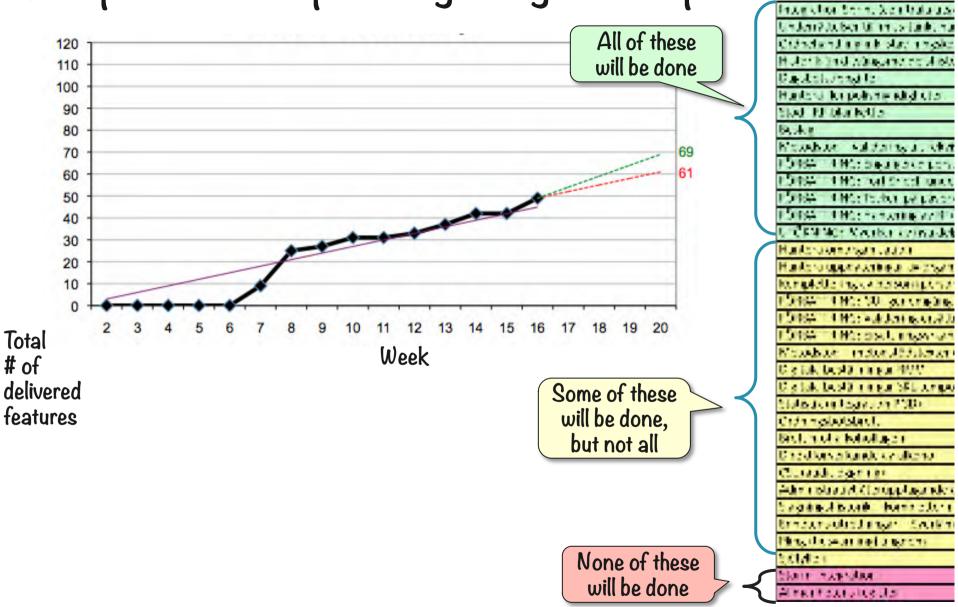


Example: Measuring velocity by counting cards



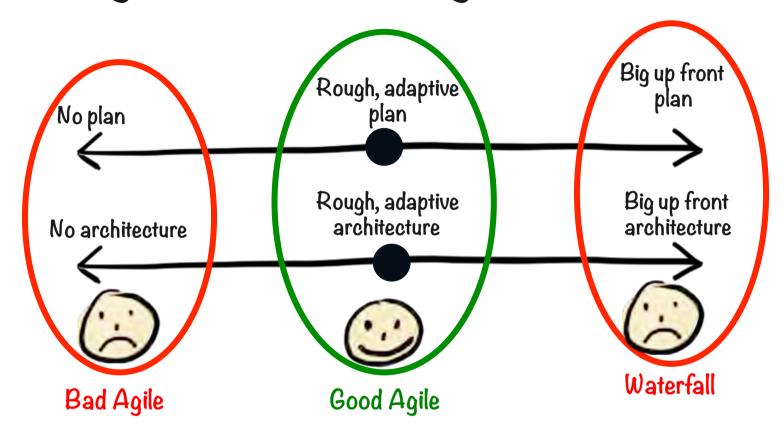


Example: Release planning using a burnup chart



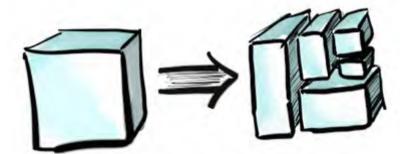
WRAPUP

Don't go overboard with Agile!

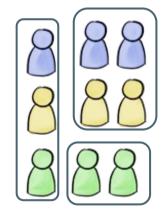


Stuff you need to figure out with multiple teams

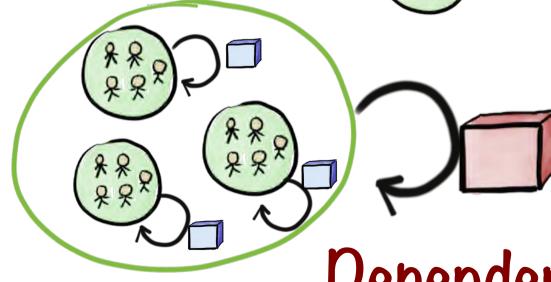
How to slice the elephant



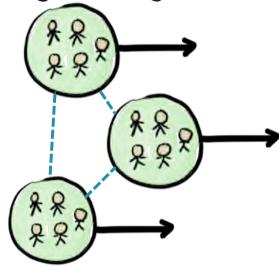
Team structure



Feedback loop



Team sync / alignment



Dependencies!

Real-life agile scaling - take aways

- Scaling hurts
 Keep things as small as possible
- Agile is a means, not a goal
 Don't go Agile Jihad. Don't dump old practices that work
- There is no "right" or "wrong" way
 Just tradeoffs
- There is no one-size-fits-all But plenty of good practices
- Build feedback loops at all levels
 Gives you better products and a self-improving organization.