

Scaling Agile with DevOps

Outline

- Me
- What is DevOps and what is it good for?
- How does it relate to scaling?
- What should I actually do?

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Loves sushi, Krispy Kreme, and video games



Agile Umbrella

A diagram of an umbrella with a white frame on a dark background. The canopy is divided into six segments by white curved lines. The segments are labeled from left to right: 'Scrum', 'Kanban', 'XP', 'Lean', 'DevOps', and 'etc.'. The 'DevOps' segment is highlighted with a red oval. A vertical white line represents the umbrella's handle, extending from the center of the canopy down to the bottom of the frame. Below the 'DevOps' segment, the text 'You are here' is written in red.

Scrum

Kanban

XP

Lean

DevOps

etc.

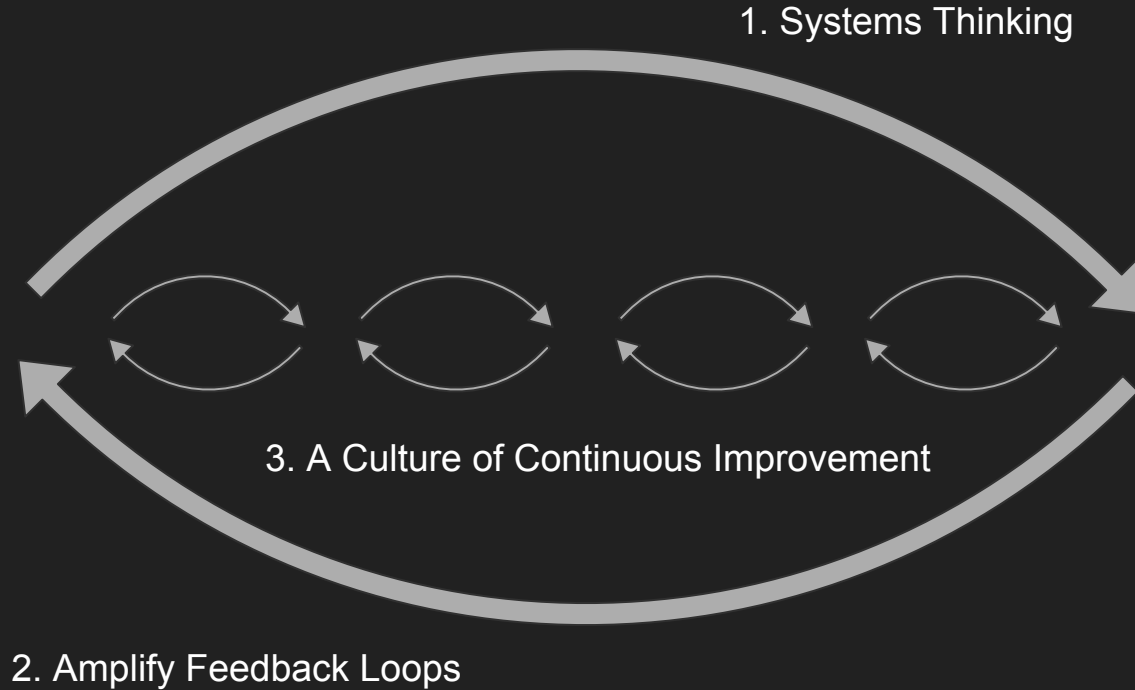
You are here



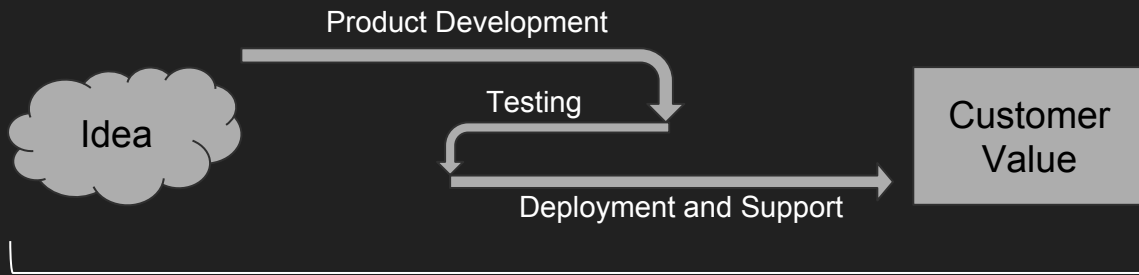
What is DevOps?



The Three Ways of DevOps



Systems Thinking

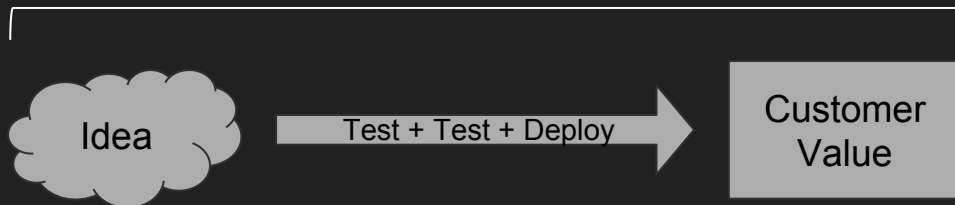


Customers



Bad

Good



Customers



Amplify Feedback Loops

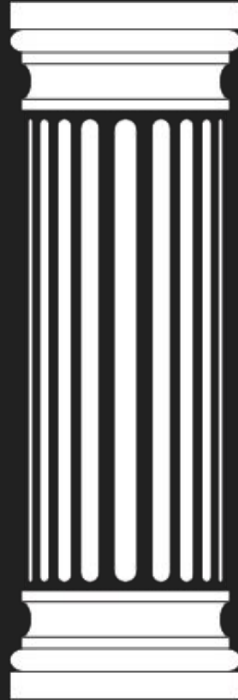
Transparency



Inspection



Adaptation



Culture of Continuous Improvement

“It is not necessary to change.
Survival is not mandatory.”

- W. Edwards Deming

DevOps is an Aspect of Culture, Not a Role

So why does everyone think of tools,
not culture?

Tools are how we achieve the culture

Why do we want this culture?

- It feels good
- It's easier to hire and keep people

Why do we want this culture?

- It's efficient - less time wasted on
 - (Unproductive) communication
 - Waiting
 - Handoffs

Why do we want this culture?

- Our customers appreciate quick lead times
- Small changes are easier than massive upgrades for users to adapt

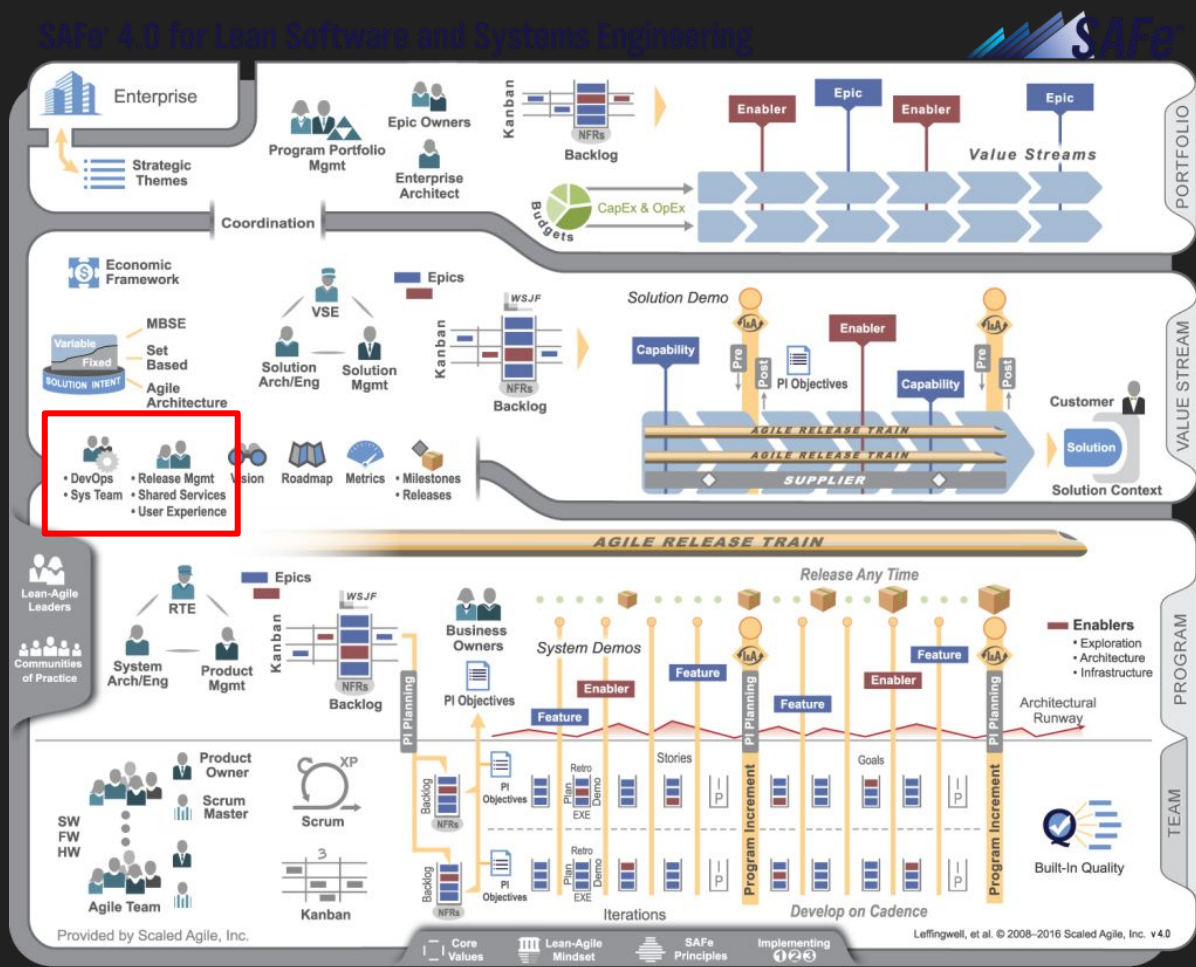


How does DevOps relate to Scaling?

It Pairs Well

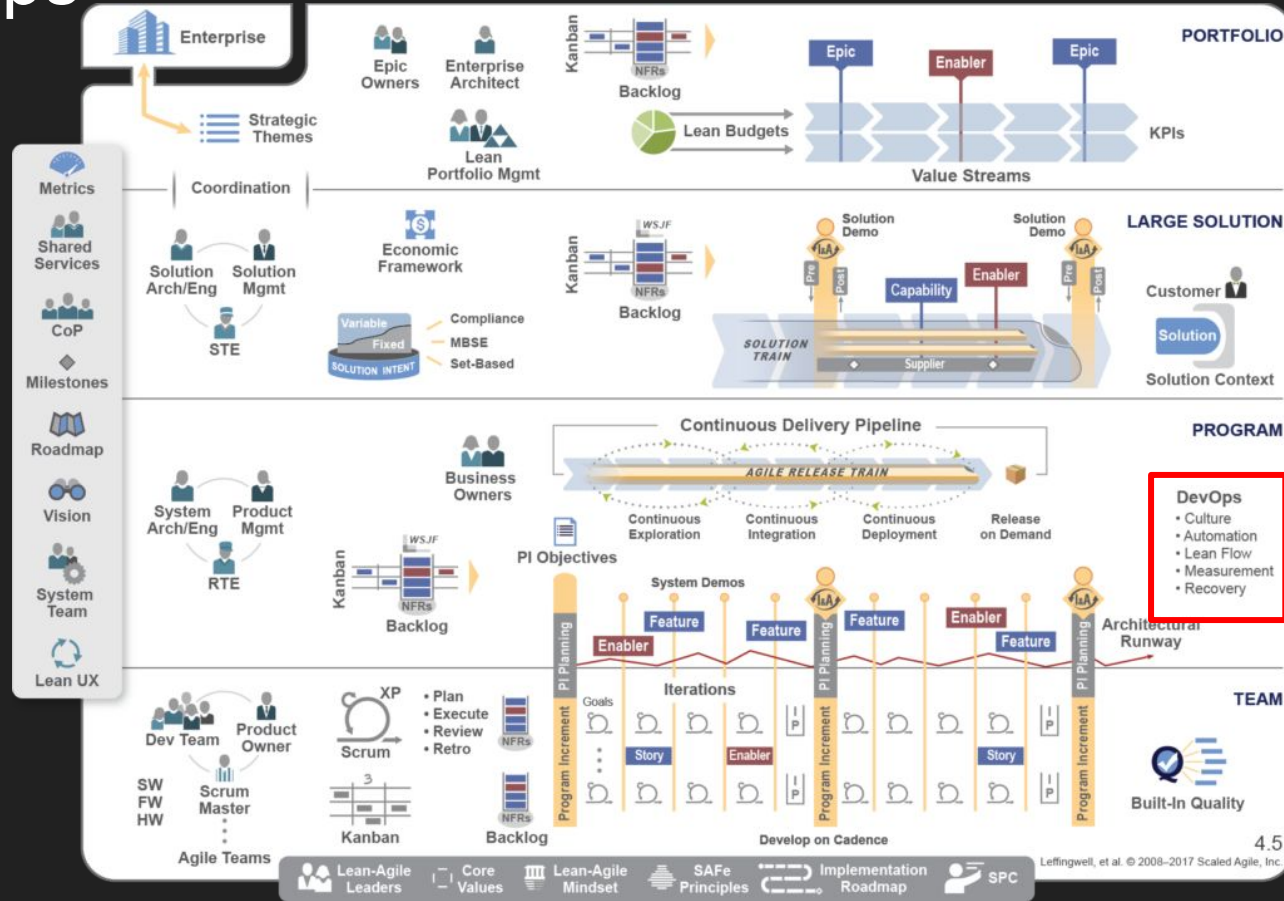
- DevOps was built to break down inter-team barriers
- The fundamental scaling problem is you might separate people that need to collaborate

- SAFe 4.0 had a DevOps Team



SAFe and DevOps

- SAFe 4.5 is less confusing



SAFe and DevOps

#1-Take an economic view

#2-Apply systems thinking

#3-Assume variability; preserve options

#4-Build incrementally with fast, integrated learning cycles

#5-Base milestones on objective evaluation of working systems

#6-Visualize and limit WIP, reduce batch sizes, and manage queue lengths

#7-Apply cadence, synchronize with cross-domain planning

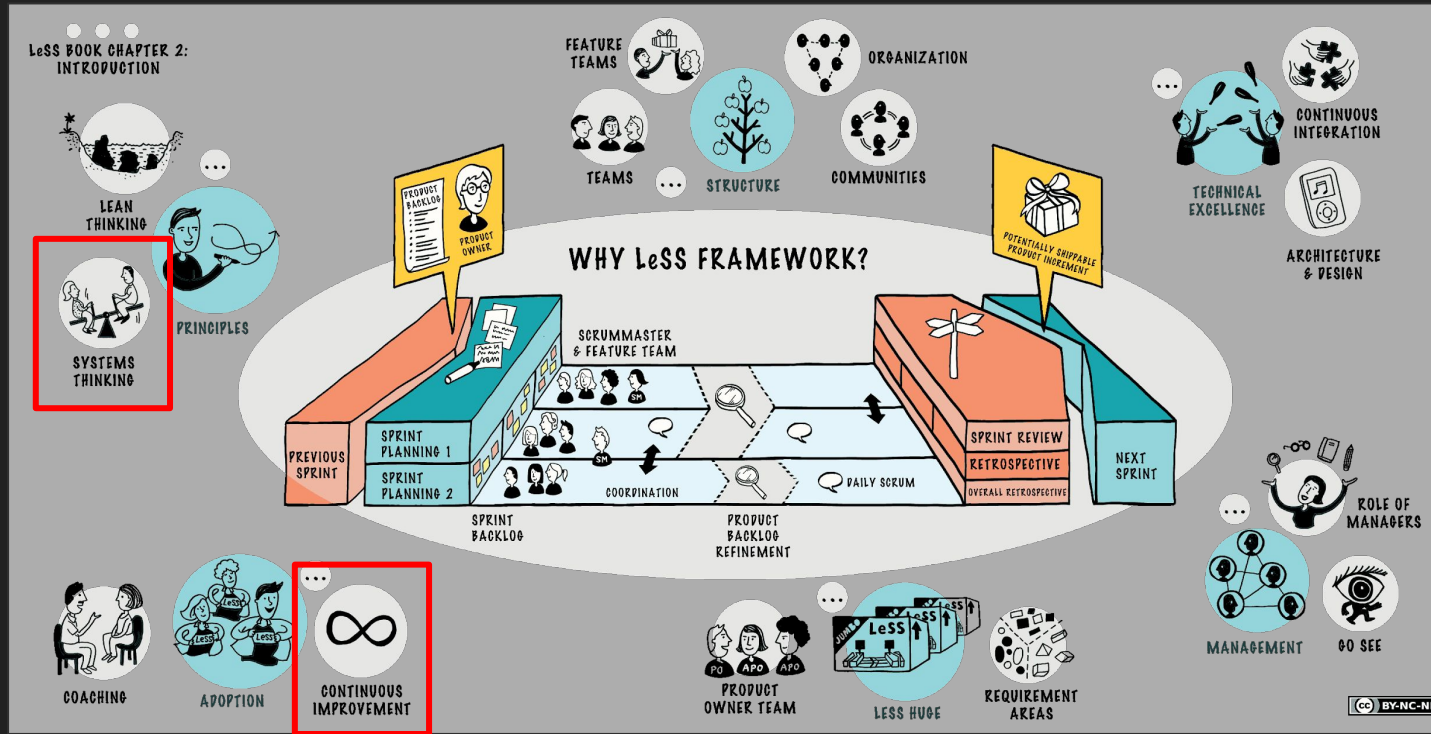
#8-Unlock the intrinsic motivation of knowledge workers

#9-Decentralize decision-making

<http://www.scaledagileframework.com/safe-lean-agile-principles/>, 7/13/17

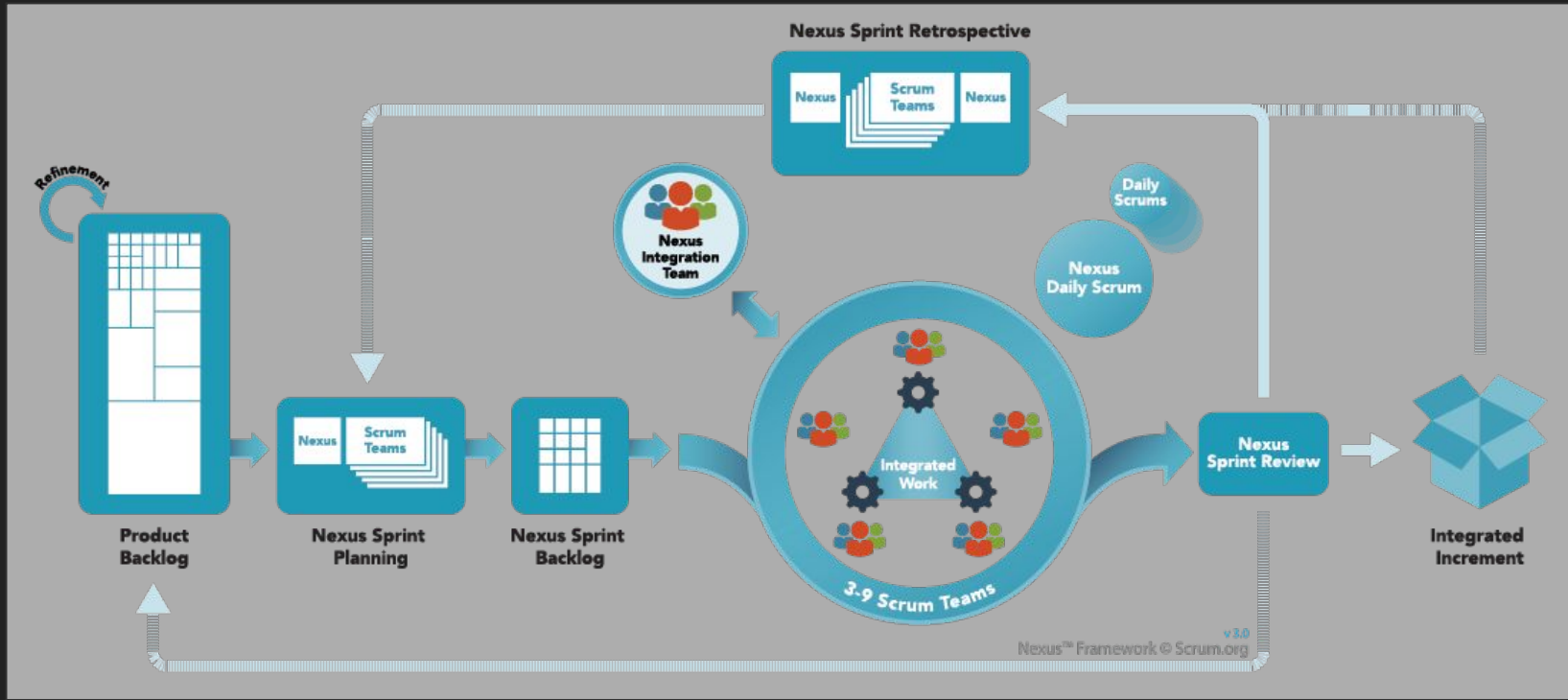
LeSS and DevOps

What about the
feedback loops?



Nexus and DevOps

Nothing?!



“Pizza” Framework and DevOps

- Look for The Three Ways
- Be cautious of formal “DevOps” roles, titles, or teams

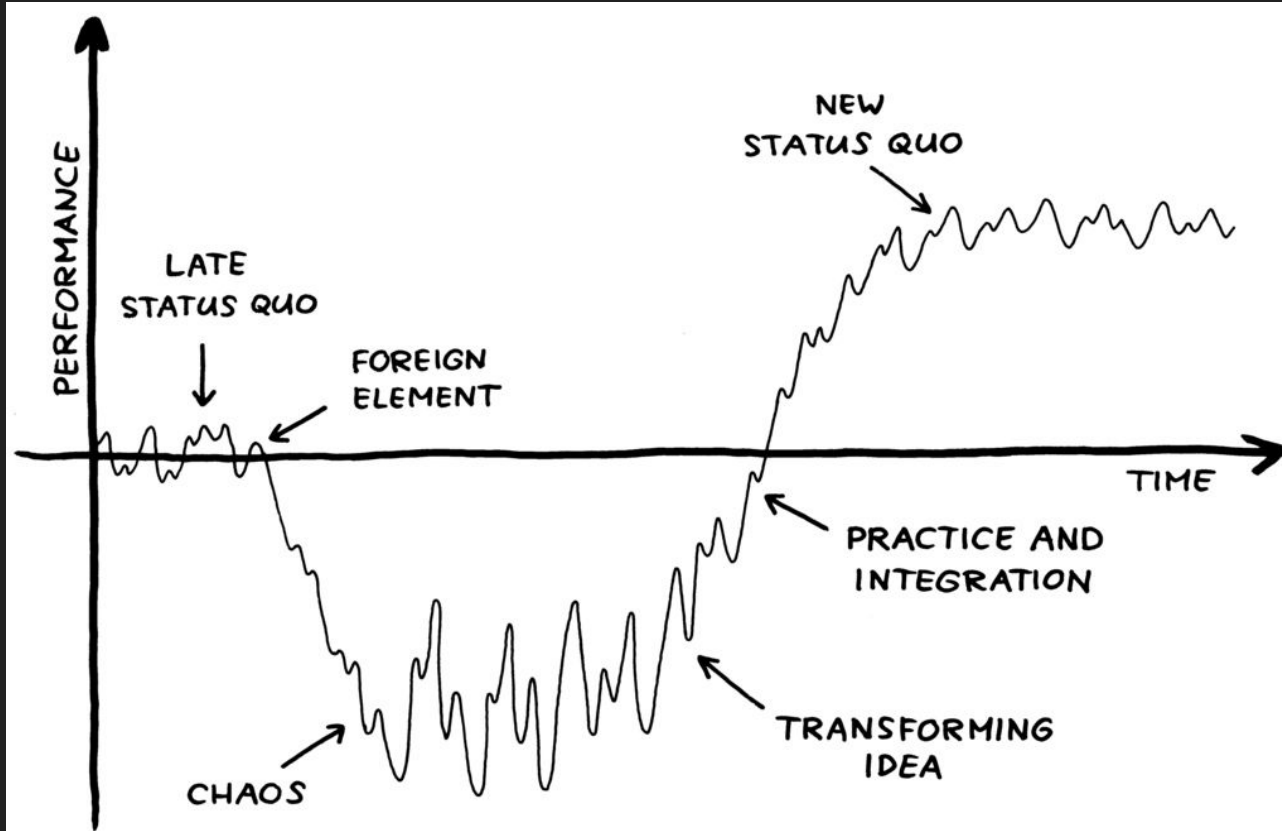
What can I do on Monday?

What can I do on Monday?

- Draw a picture of your system.
- Be honest
- Look for pain points, delays, waste

What can I do on Monday?

- Pick some easy wins
- Change hurts



What can I do on Monday?

- Be imaginative! Consider changing:
 - Teams
 - Backlogs
 - Communication
 - Location
 - Strategy
- Process investments generally have better yields than automation investments

Don't bring in tools/spend time automating when your problems are people-problems!

Start Talking!
Ask Questions!

<https://www.thefoxgang.com/blog>

<http://www.centare.com/blog>

<http://itrevolution.com>

<http://www.linkedin.com/in/tevert>

<https://www.youtube.com/watch?v=x8jdx-lf2Dw>