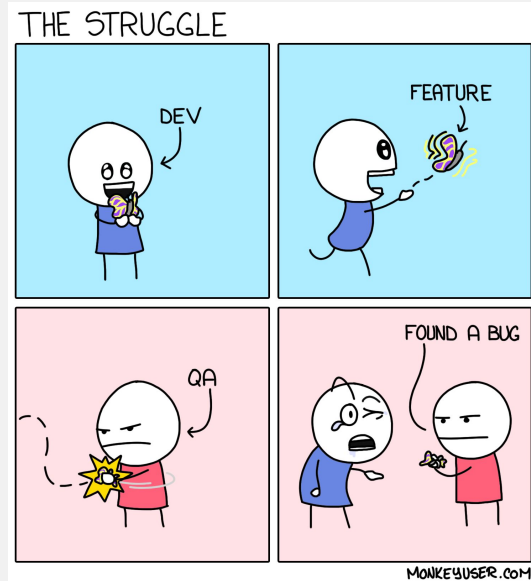
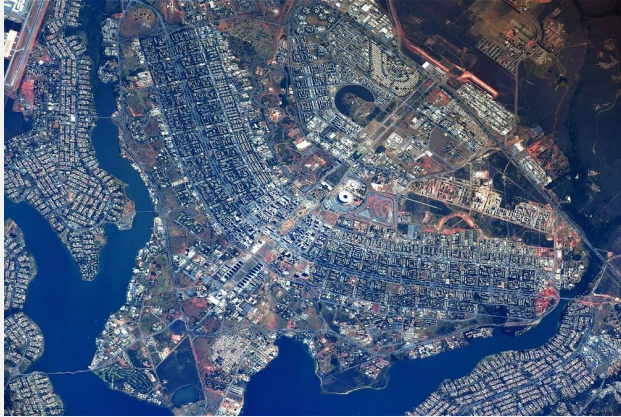


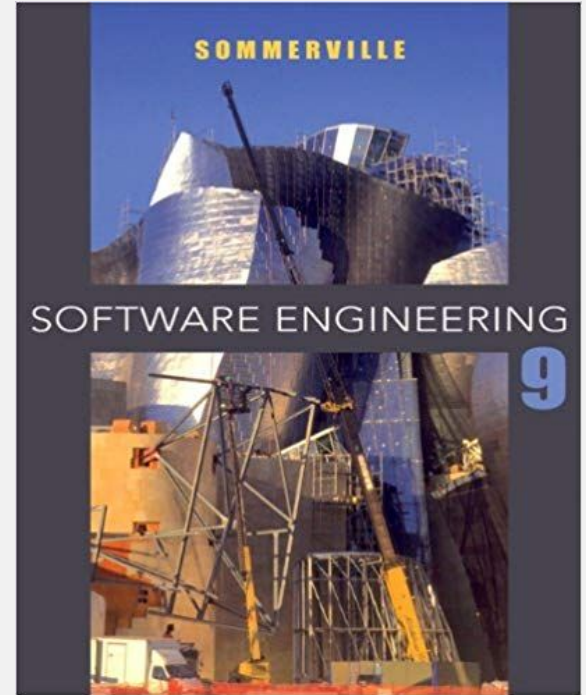
# QA no ágil? Como funciona?

Guilherme Baufaker Rêgo

# Sobre mim



Testing procedures are examples of company procedures that may not be compatible with agile methods (Sommerville, 2009)





# O Caos



Depende de



- <https://istio.io/>
- 285 contribuidores ativos (6 fusos horários)
- +1000 itens no Backlog
- 7 subgrupos com 7 POs
- 5 empresas (IBM, Red Hat, Google, Cisco)

- <https://www.kiali.io/>
- 28 contribuidores ativos (10 fusos horários)
- 2 subgrupos (+300 itens no Backlog)
- Sprint de 3 semanas (Release Automatizado)
- **+200 Testes Automatizados**
- 1 empresa (Red Hat)
- Mailing List com cerca de 1000 emails por semana



# Feedback do Projeto



**Niran Even-chen** 🍌

@NiranEC

Finished deploying PKS 1.2.3 with #RunNSX and istio. pretty cool stuff, especially this @KialiProject . Check it out #Vmware @pivotal #PKS

Translate Tweet



**maguire**

@maguirebrian

@KialiProject with #istio on #kubernetes makes learning and debugging istio routing so much easier. Using a chrome auto refresh extension helps you see and keep the traffic flowing through the routes while you make policy changes.

Translate Tweet



7:13pm · 2 Dec 2018 · Twitter Web Client



**Voodoo Artisan (@ Frankf...** 1d

This is dooooooope

Deployed @IstioMesh onto a personal k8s cluster. What you're looking at is the breakdown of successful HTTP status across a simple, two tier app. Between app and DB I get network throughput.

BUT THE GRAPH! AH SO PRETTY. Thanks @KialiProject!!



# No Caminho do Ágil



Developer  
Engineer (DEV)



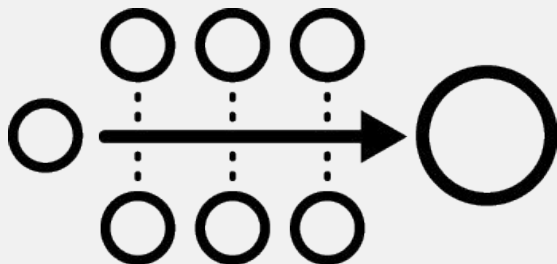
Quality  
Engineer (QE)



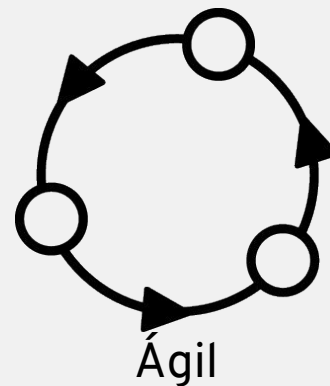
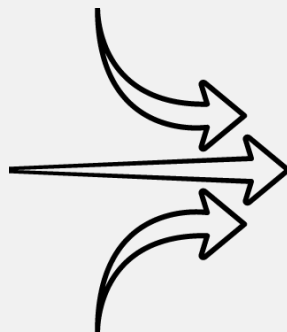
Scrum  
Master (SM)



Product  
Owner  
(PO)

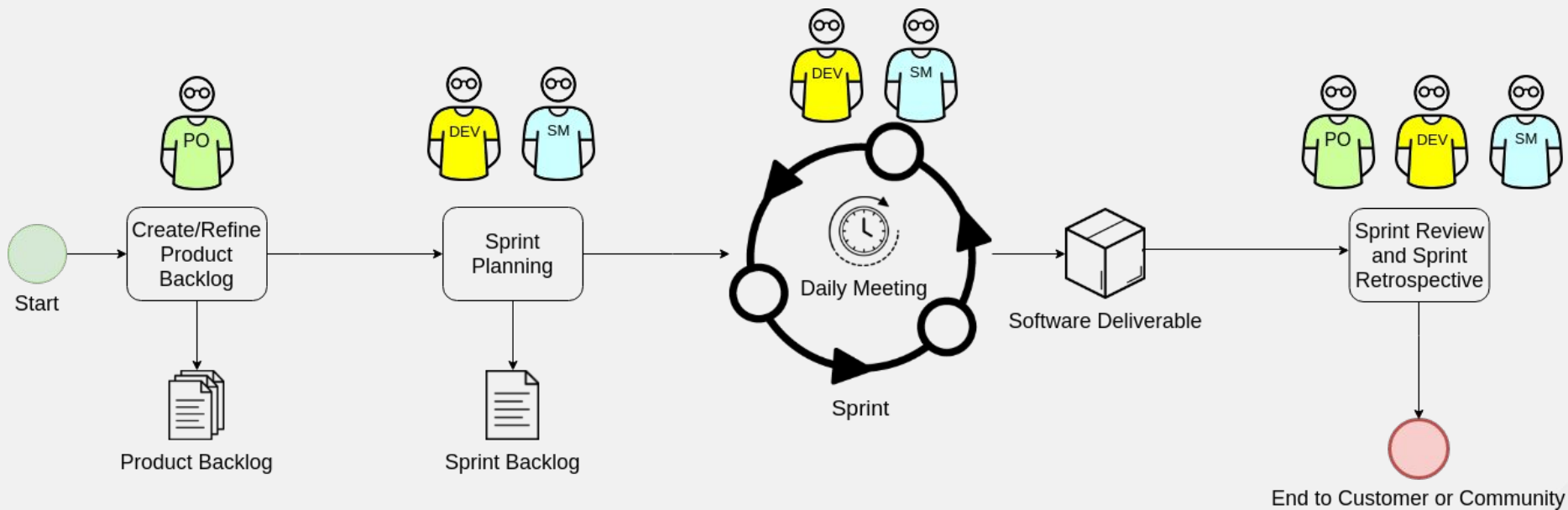


Tradicional



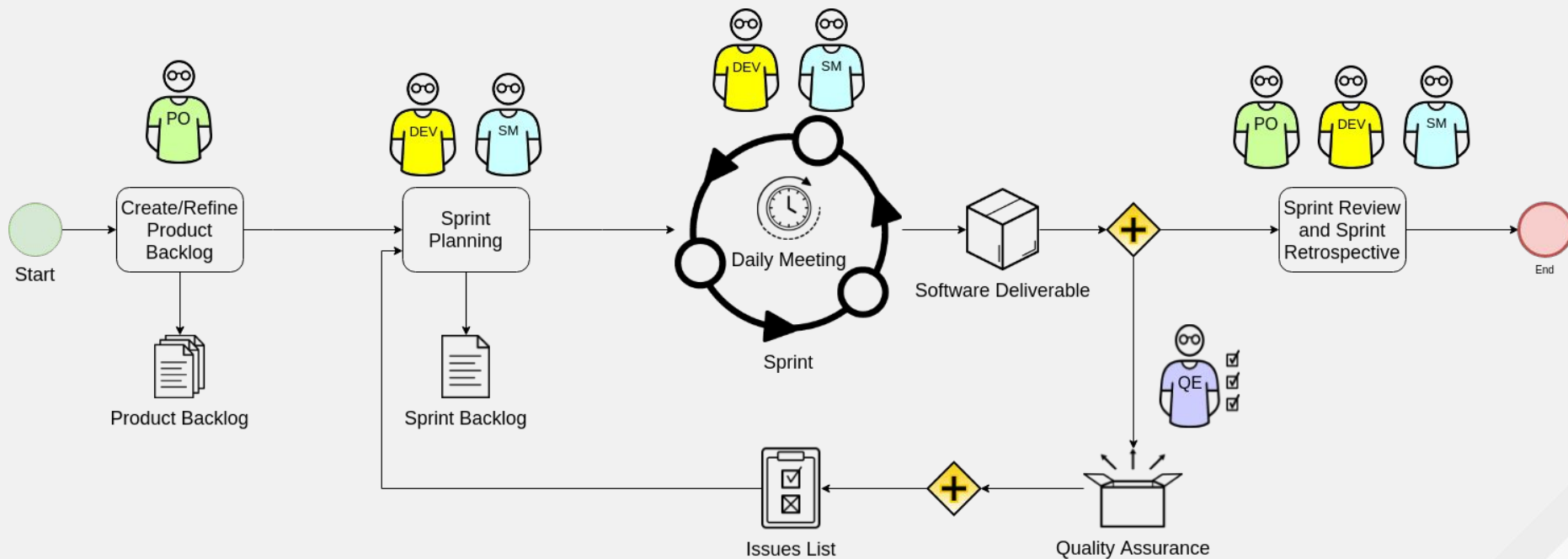
Ágil

# “Scrum Tradicional”





# “Agile + QE”



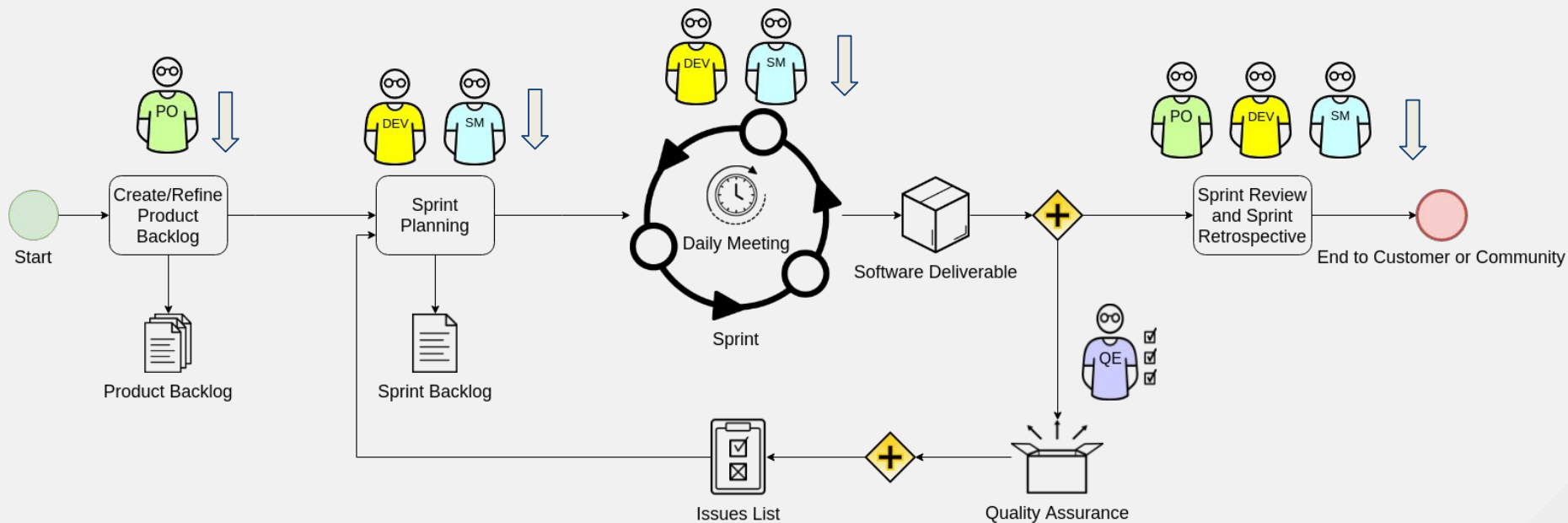
# Chegando Atrasado na Festa<sup>1</sup> no “Agile + QE”

- Testar a caixa preta
- Não há espaço para mudanças
- Não há chance de fazer parte do projeto
- e também não fazer parte do
  - **product backlog,**
  - **sprint backlog,**
  - **daily meetings,**
  - **sprint reviews**
  - **sprint retrospective**

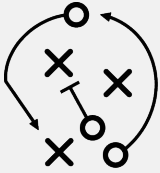
1 - Og Maciel: Just What is A Quality Engineer (<https://www.youtube.com/watch?v=YZGZoQbDVRg>)

O que engenheiro de qualidade pode fazer desde o Dia 1?

# Opportunities for Engagement



# Create/Refine Product Backlog



**Criar uma estratégia  
de teste**



**Ajudar nos requisitos  
não funcionais**



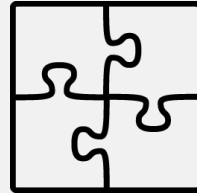
**Define test  
metrics**

# Sprint Planning



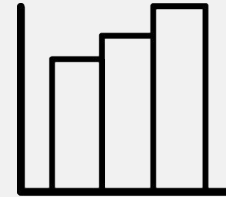
**Cada User Story  
deve ser**

Independent  
Negotiable  
Valuable  
Estimable  
Small  
**Testable**



**Criar Critérios de  
Aceitação**

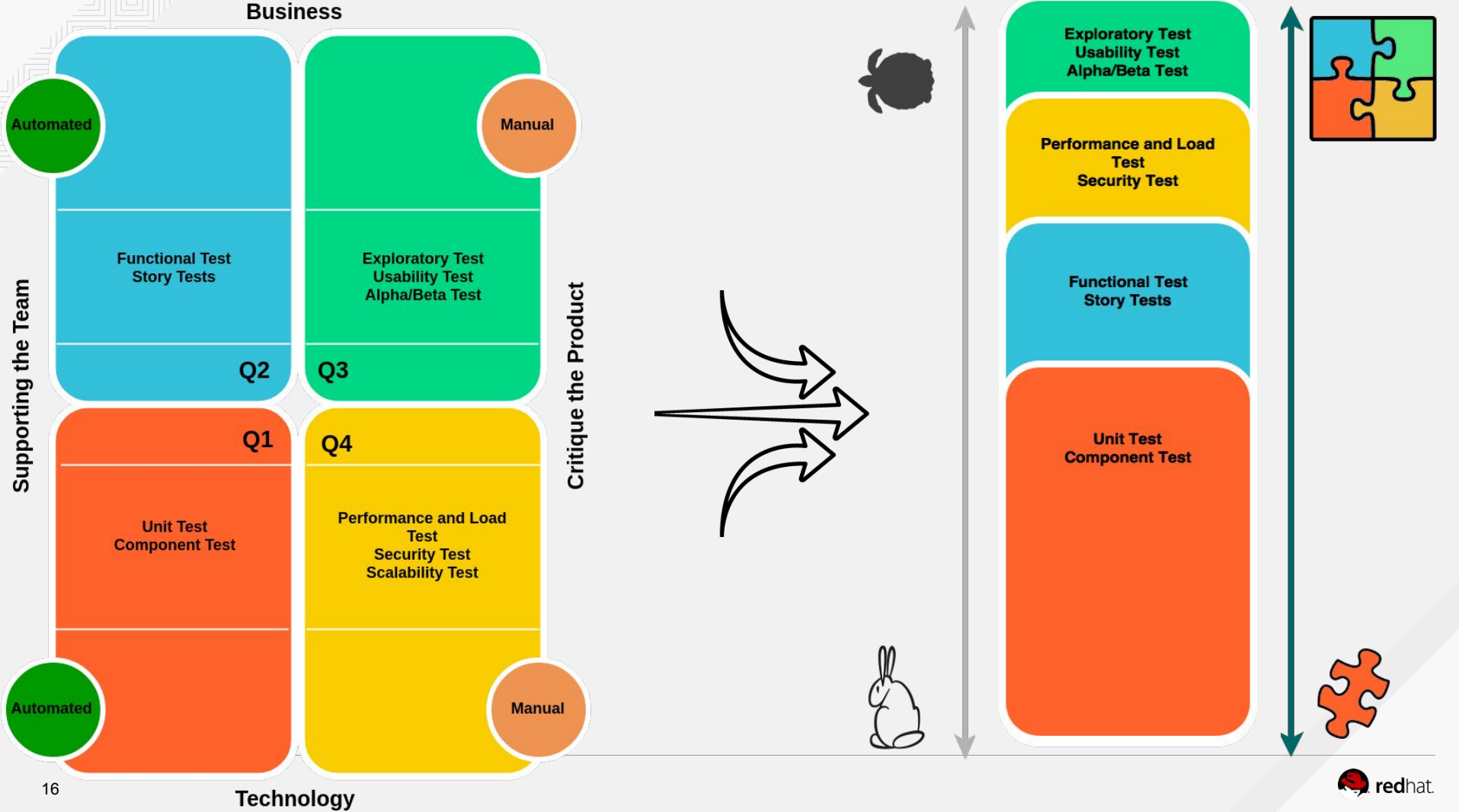
Behaviour Driven  
Development (BDD)



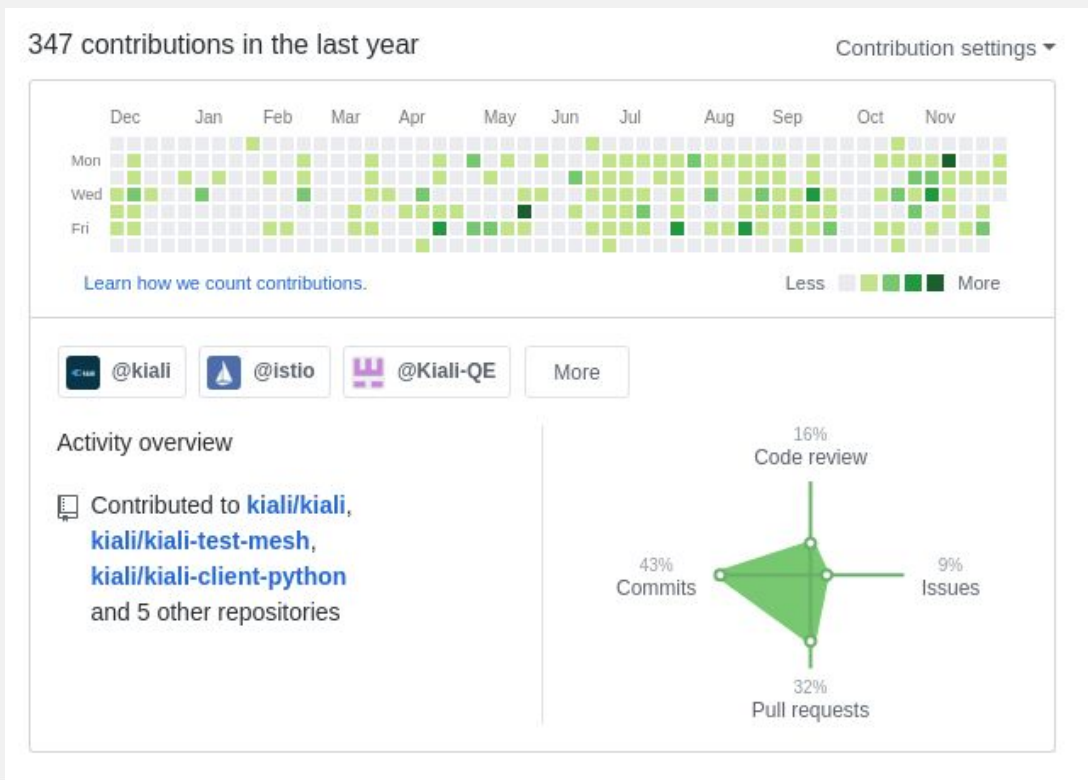
**Ajudar na  
Estimativas**



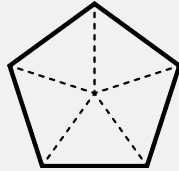
# Durante a Sprint?



# Prevenir Bugs antes que eles aconteçam



# Daily Meeting

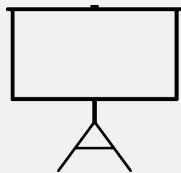


**Colaboração entre os  
“times” (QE/DEV)**



**Test Progress  
should be communicated**

# Sprint Review

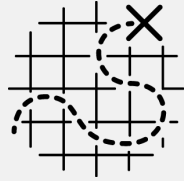


**Ajudar na  
apresentação do  
produto**



**Mostrar como  
produto foi testado**

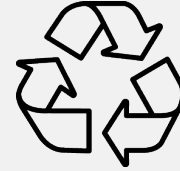
# Sprint Retrospective



## Análise de Causa Raiz

5 Whys

Ishikawa Diagram (Fishbone Diagram)

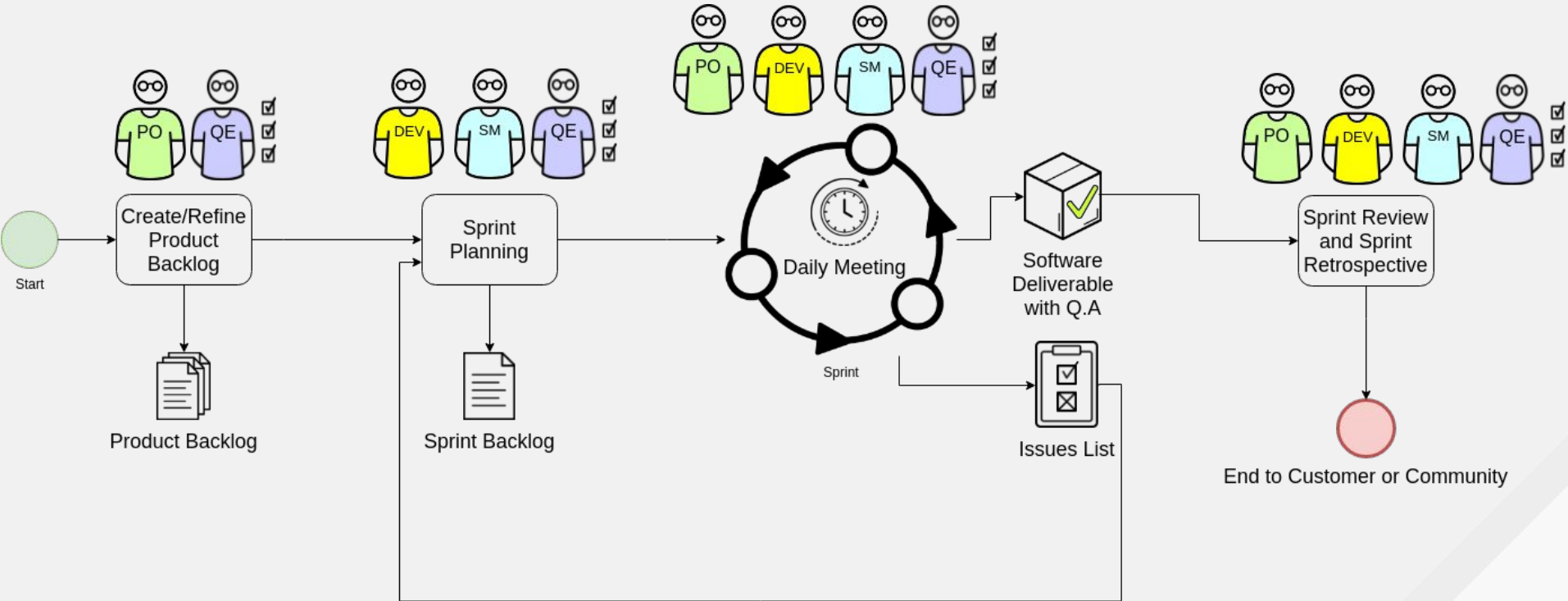


## Revisar as práticas



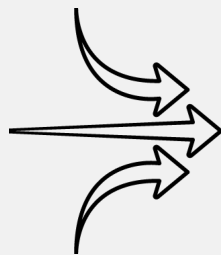
No fim?

# Agile with integrated QE



# Problemas

- Escalar o ágil
  - Time Globalmente Distribuído
  - Múltiplas Equipes, Múltiplos Produtos, Múltiplos Ciclos de Desenvolvimento e Múltiplas Ferramentas (JIRA, Bugzilla),
  - Produtização no ágil (software livre)
- Tarefas de Verificação, Infraestrutura
- Definição do Pronto (Open Decision Framework - 200 emails +)
- Cerimônias Ágeis Longas



# Recomendações

- Integrar workflows (DEV/QE - Products - OPS)
- Gravar as cerimônias
- Integração de Calendários (Fazer as Sprints começarem e terminarem ao mesmo tempo)
- Inclusão das Tarefas no Quadro de Tarefas com um tipo específico
- Tornar a cerimônias curtas e opcionais por um dia por semana, rotativo toda semana



Thank you!  
Questions?