



Software Development Done Right

Seminar: The Missing Link in Agile Transitions

March 23rd, 2017 @ Hilversum

Programme for Today

- 16.00: Welcome
- 16.30: Introduction
- 16.40: Successful product creation by Jorrit van der Laan of Quby
- 17.40: Network dinner in Grand Café
- 18.30: Agile Product Management by Chris Lukassen
- 19.30: Shortening time-to-market by Viktor Clerc
- 20.15: Drinks & Networking in Grand Café



Software Development Done Right

Shortening Time to Market Using Instant Feedback



Seminar “The Missing Link in Agile Transitions”
Viktor Clerc, Xebia Quality and Test Automation
March 23rd, 2017

So, Who Am I?



- Viktor Clerc
 - Background in Computer Science (MSc, PhD) at VU University
 - Traversed through all phases and activities of the software delivery lifecycle
 - Aimed at refurbishing the innovation lifecycle
 - Heads Xebia's Quality and Test Automation team

 <https://www.linkedin.com/in/clerc/>

 @viktorclerc

What's up?



Reality

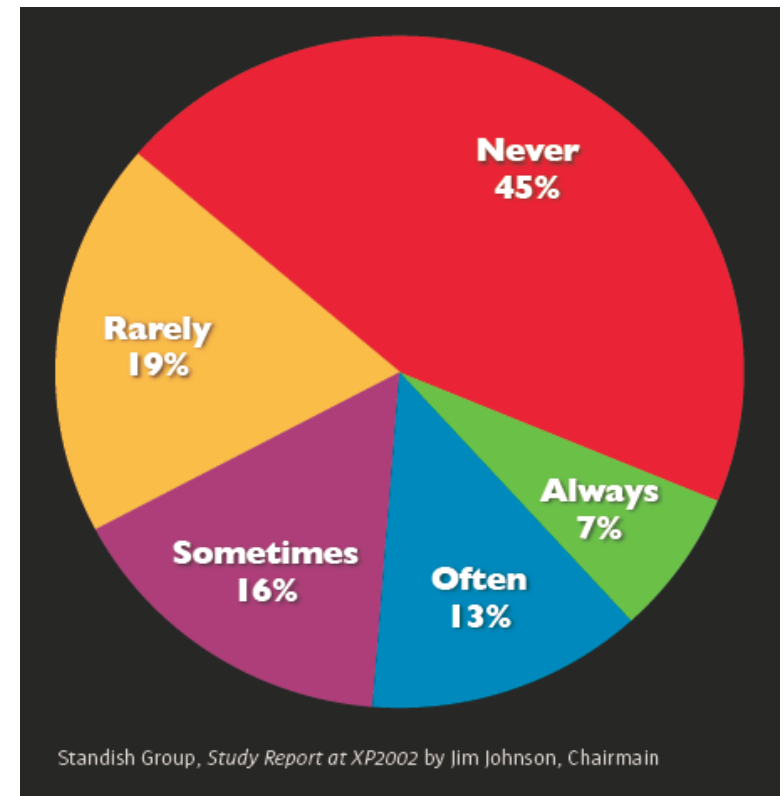


THE PROBLEM

45% of the features are **NEVER** used

Only 20% of the features are used

ALWAYS or **OFTEN**

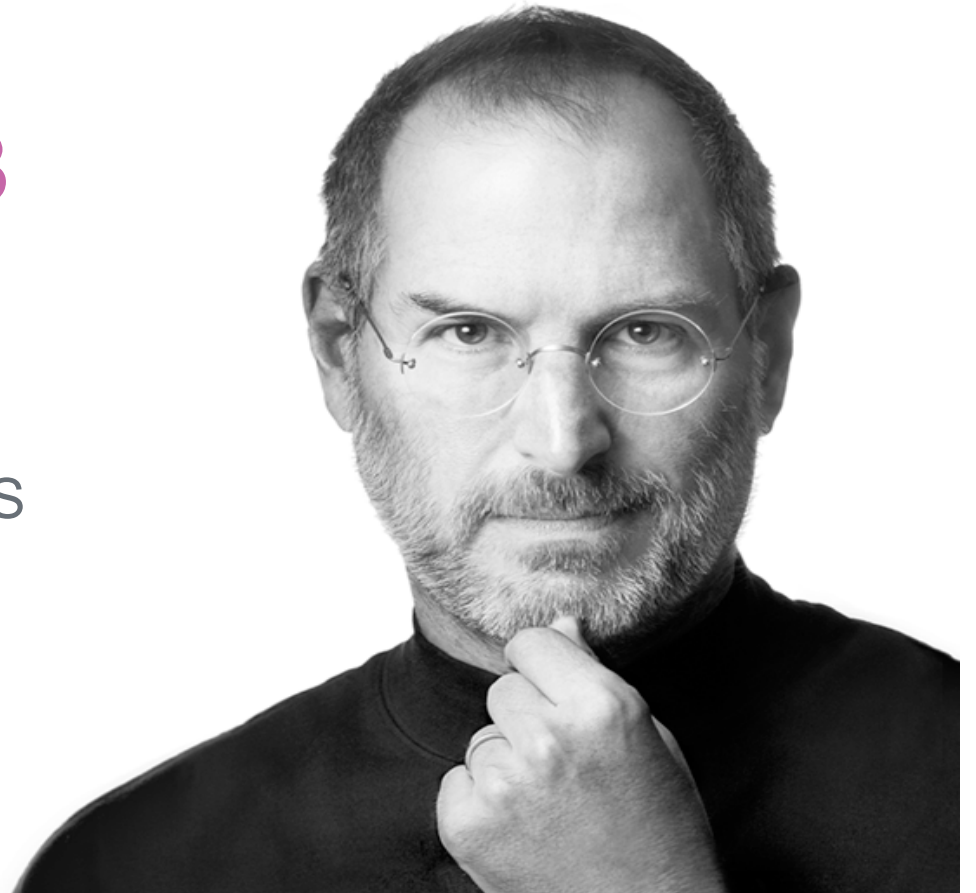


WHAT MAKES IT SO
DIFFICULT TO IDENTIFY THE
20%?



“IT’S NOT THE
CUSTOMER’S JOB
TO KNOW WHAT
THEY WANT.”

STEVE JOBS



Xebia

Internal stakeholders by proxy

End users by proxy

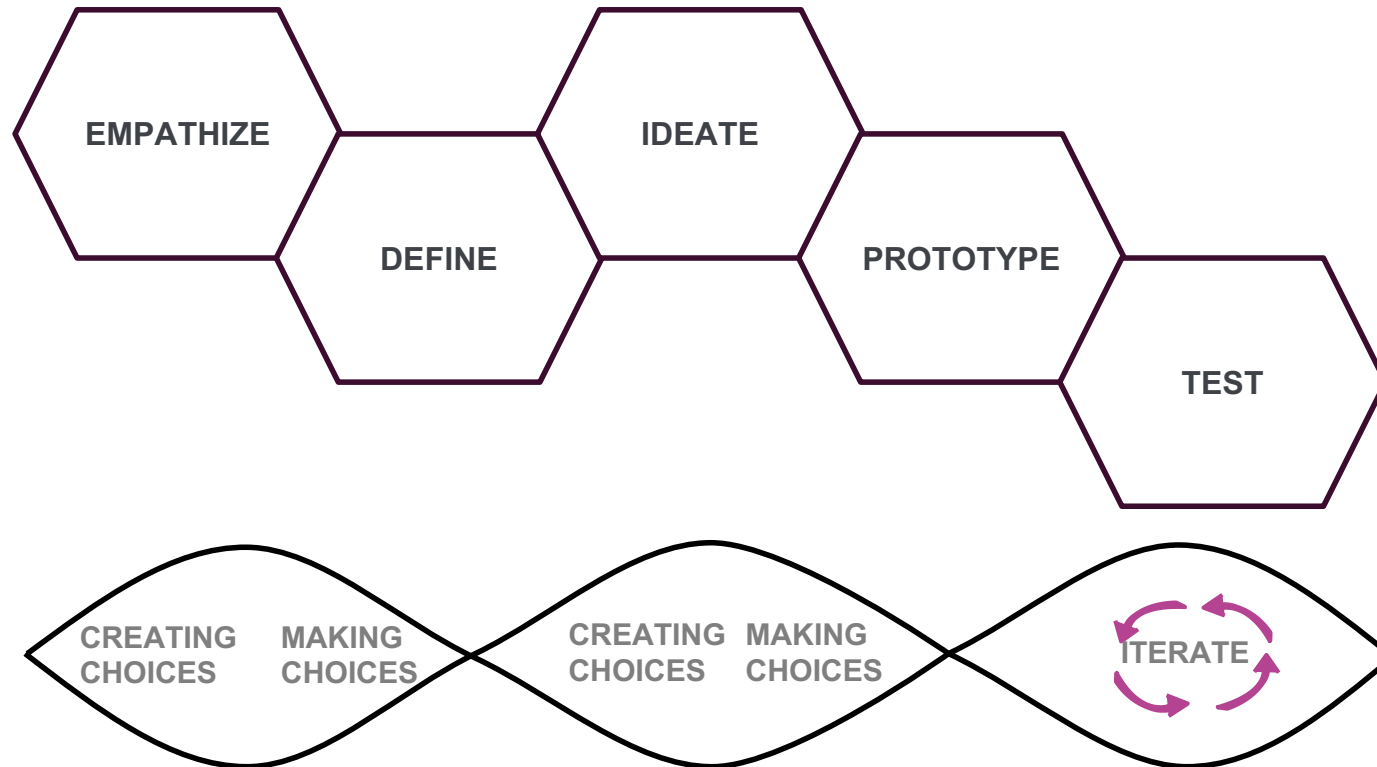


Establish common innovation ground >



DESIGN THINKING

A HUMAN-CENTERED DESIGN APPROACH



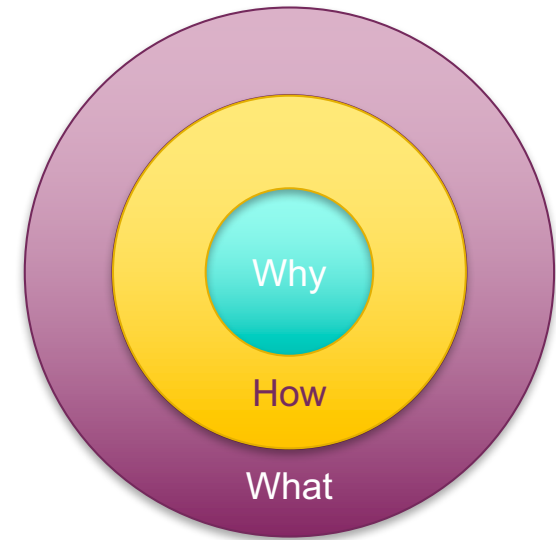
What Simon Sinek learned us

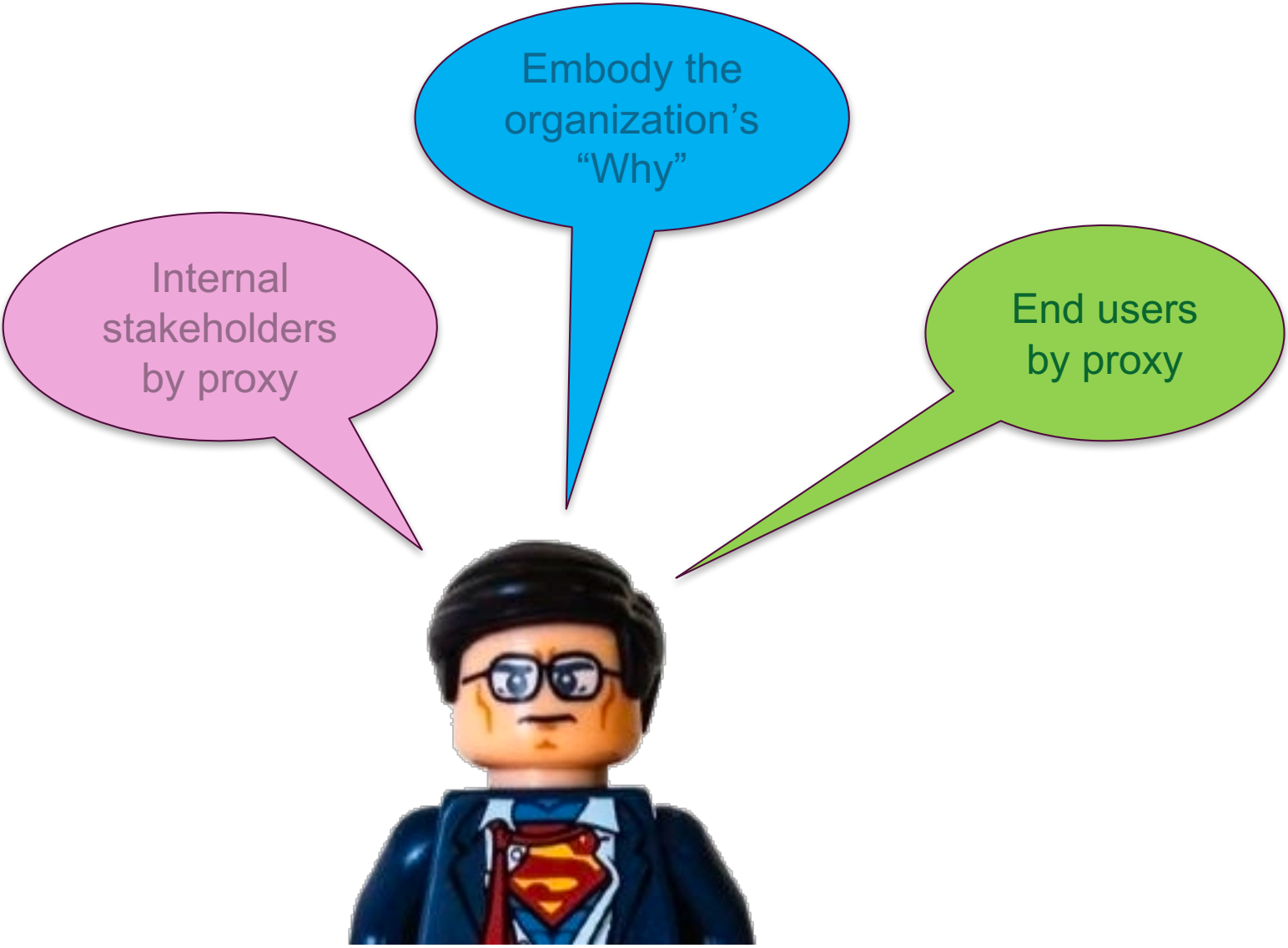


<https://www.youtube.com/watch?v=sioZd3AxmnE>

You have to start with *Why*

- Simon Sinek - the Golden Circle
- Example Apple:
 - Why: *“Make a dent in the universe”*
 - How: *“Beautiful engineered, designed, just works”*
 - What: *“Computers, music, phones, watches etc.”*





When do you want to know
that your software is
broken?

Organize feedback to ship better stuff more often >

Production Monitoring

- Learn from the actual behavior of your customers



Shift Left 

Testing Responsive Design

Human Readable and Advanced Syntax

Basic syntax

```
@objects
  comments      #comments
  article-content  div.article

= Main section =
  @on mobile, tablet
    comments:
      width 300px
      inside screen 10 to 30px top right
      near article-content > 10px right

  @on desktop
    comments:
      width ~ 100% of screen/width
      below article-content > 20px
```

Advanced

```
@objects
  menu-item-*  css #menu li
  header-logo  id logo
  button-login xpath //button[@id='login']

= Menu =
  @forEach [ menu-item-* ] as itemName, next as nextItem
    ${itemName}:
      left-of ${nextItem} 10px

  header-logo:
    image file imgs/header-logo.png, error 4%

  button-login:
    color-scheme 5% #ffefd0, 87 to 90% #ae32ef
```

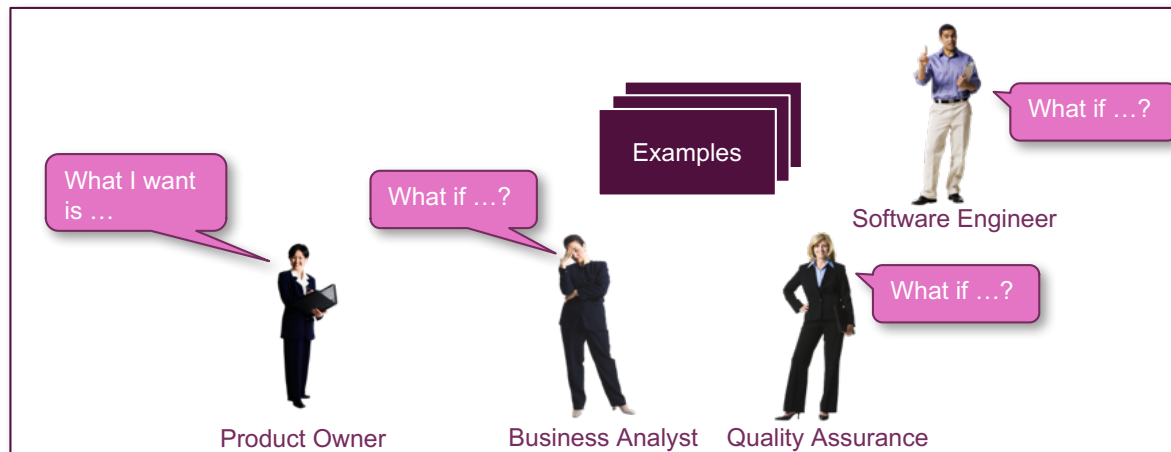
Shift (Shift Left); 

Automated Checking

- Always run all your checks!
- Well-balanced series of checks (unit, integration, end to end)
- Starting point – understand stakeholders' requirements and establish a definition of done

Behaviour Driven Development

- Software development methodology aimed at improving the common understanding between PO, and team members
- Functionality is described using plain text and examples
 - Ensure relevant test cases are captured*



Behaviour Driven Development Specification By Example

Title (one line describing the story)

Narrative:

As a [role]

I want [feature]

So that [benefit]

Acceptance Criteria: (presented as Scenarios)

Scenario 1: Title

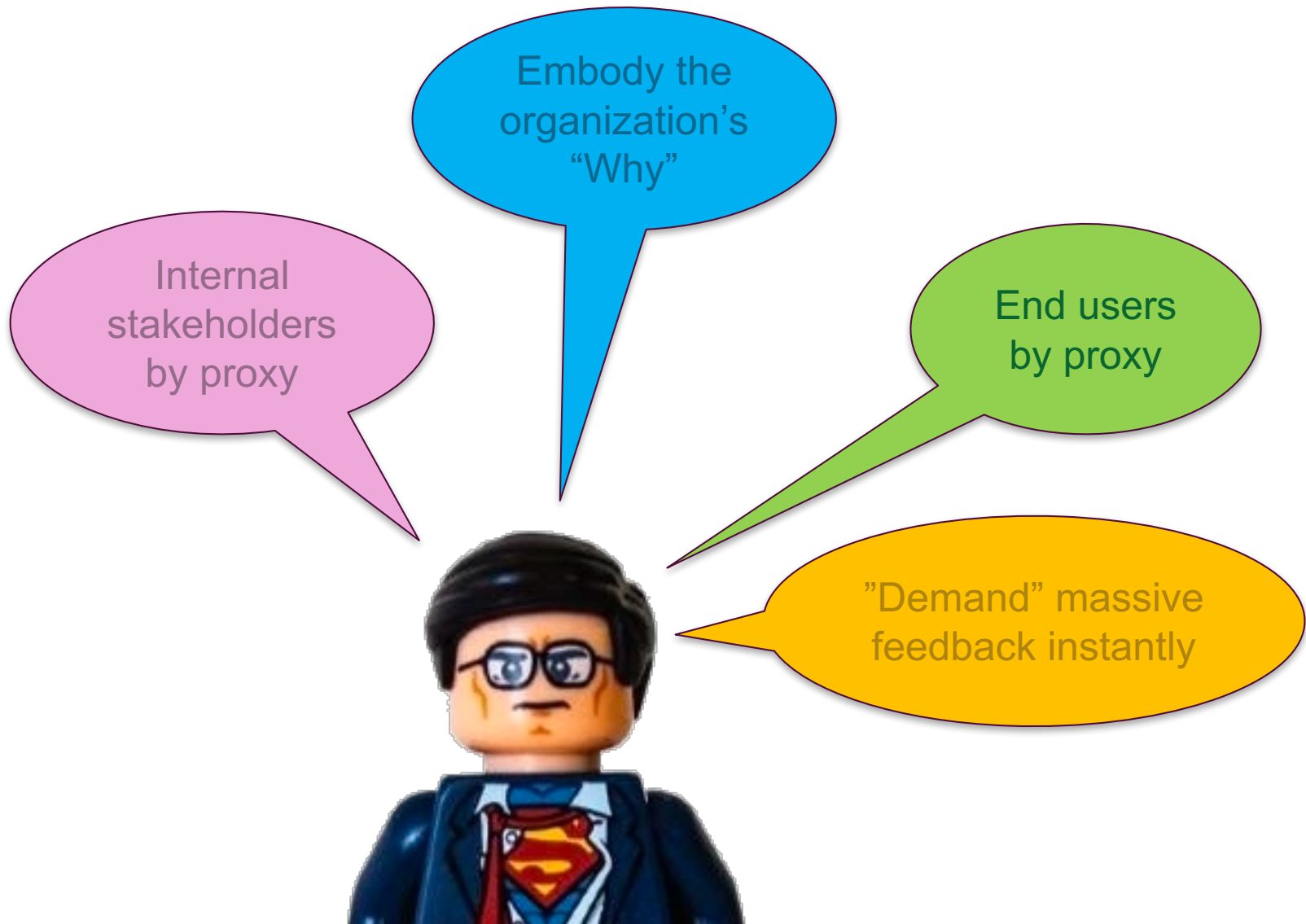
Given [context]

And [some more context]...

When [event]

Then [outcome]

And [another outcome]...



Shift (Shift (Shift Left)); >

Impact Mapping

Why

Who

What

How



Goal

Actors

Impact

Deliverable

Impact Mapping (2)



Why



Who



What



How

1. Identify the **problem** your product is solving?
2. Who can **influence** the outcome?
3. What impacts our actors **behavior**?
4. What can we do to **support** this?

Impact Mapping (3)

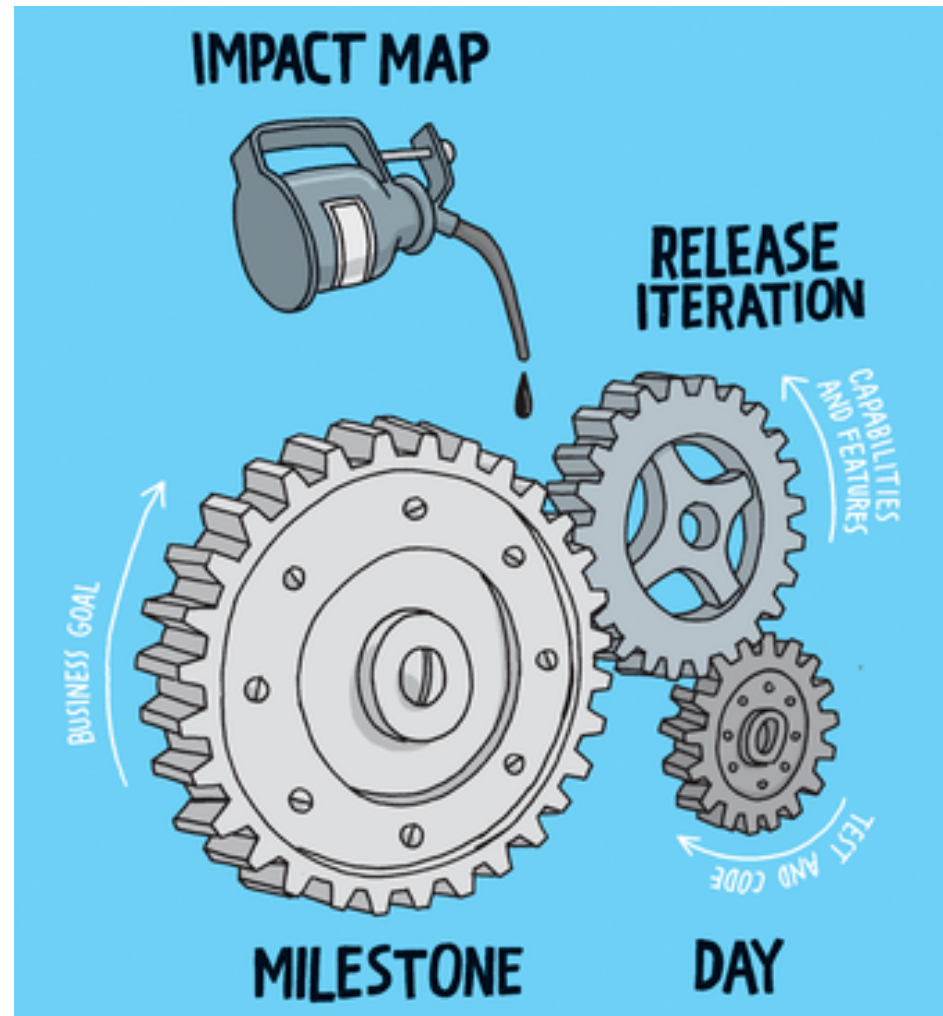
PRO

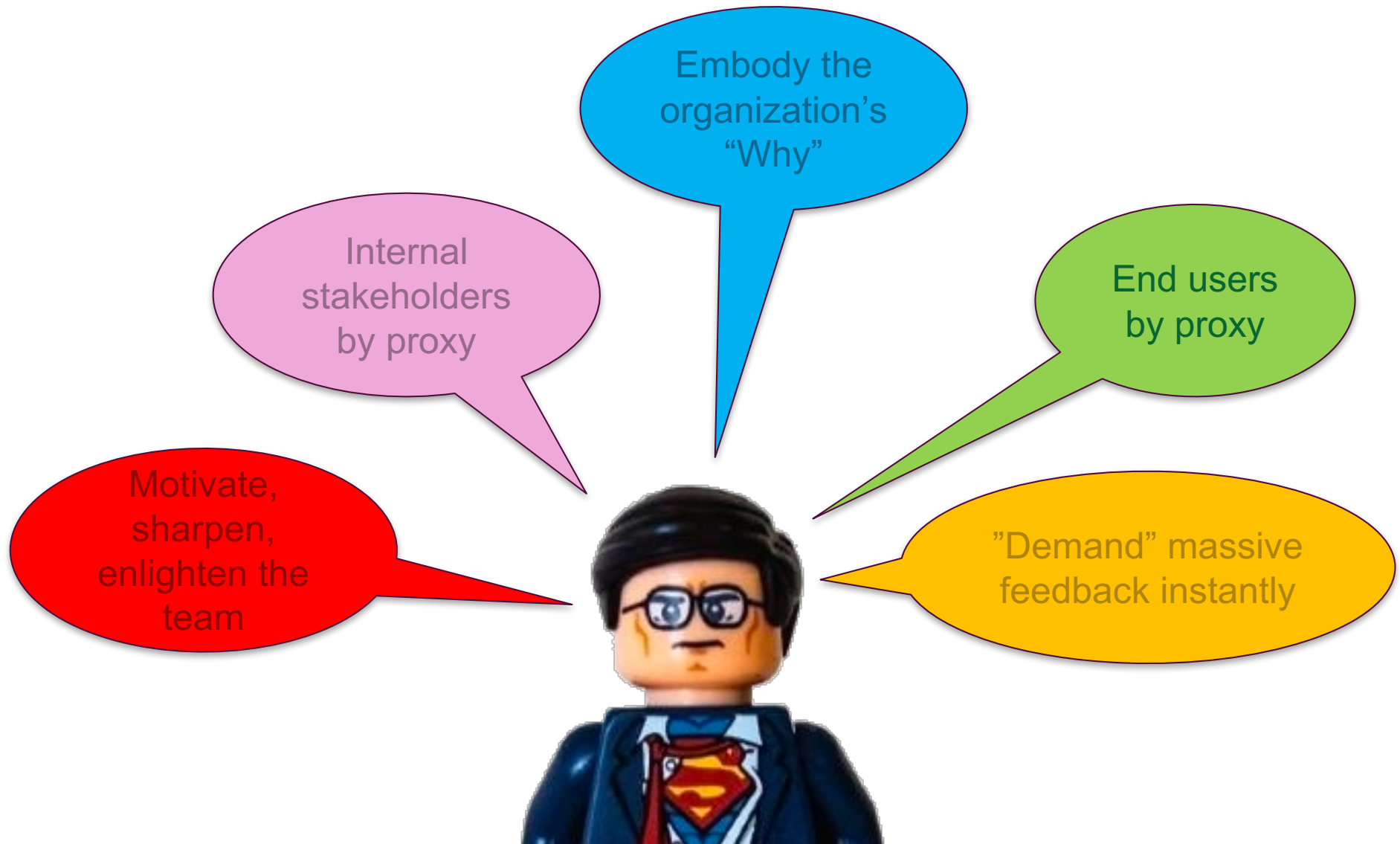
- Works when you can completely oversee a feature

CON

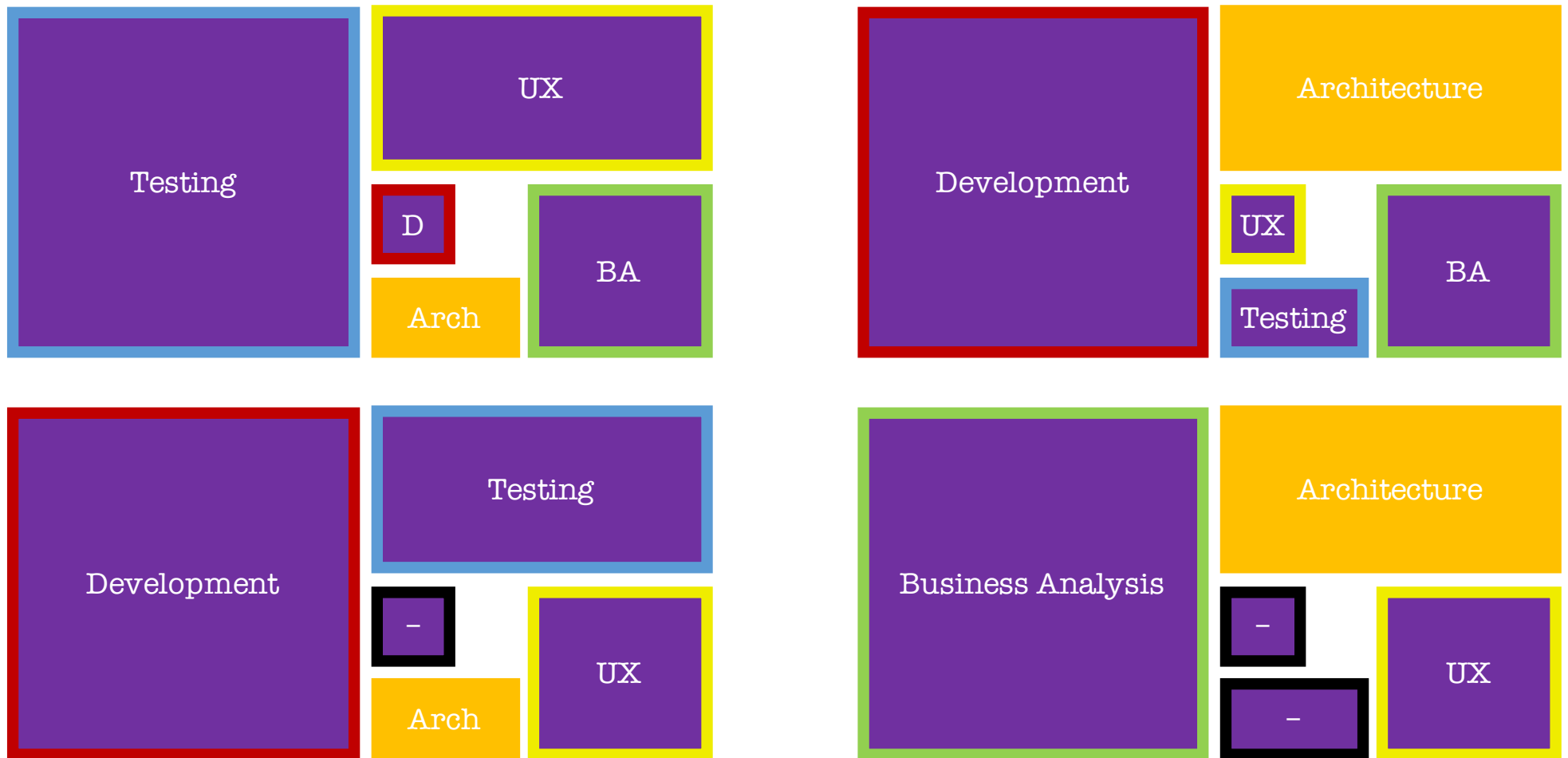
- If you need multiple teams that participate in developing information exchange
- Use Value Stream Mapping

Organize this with your team

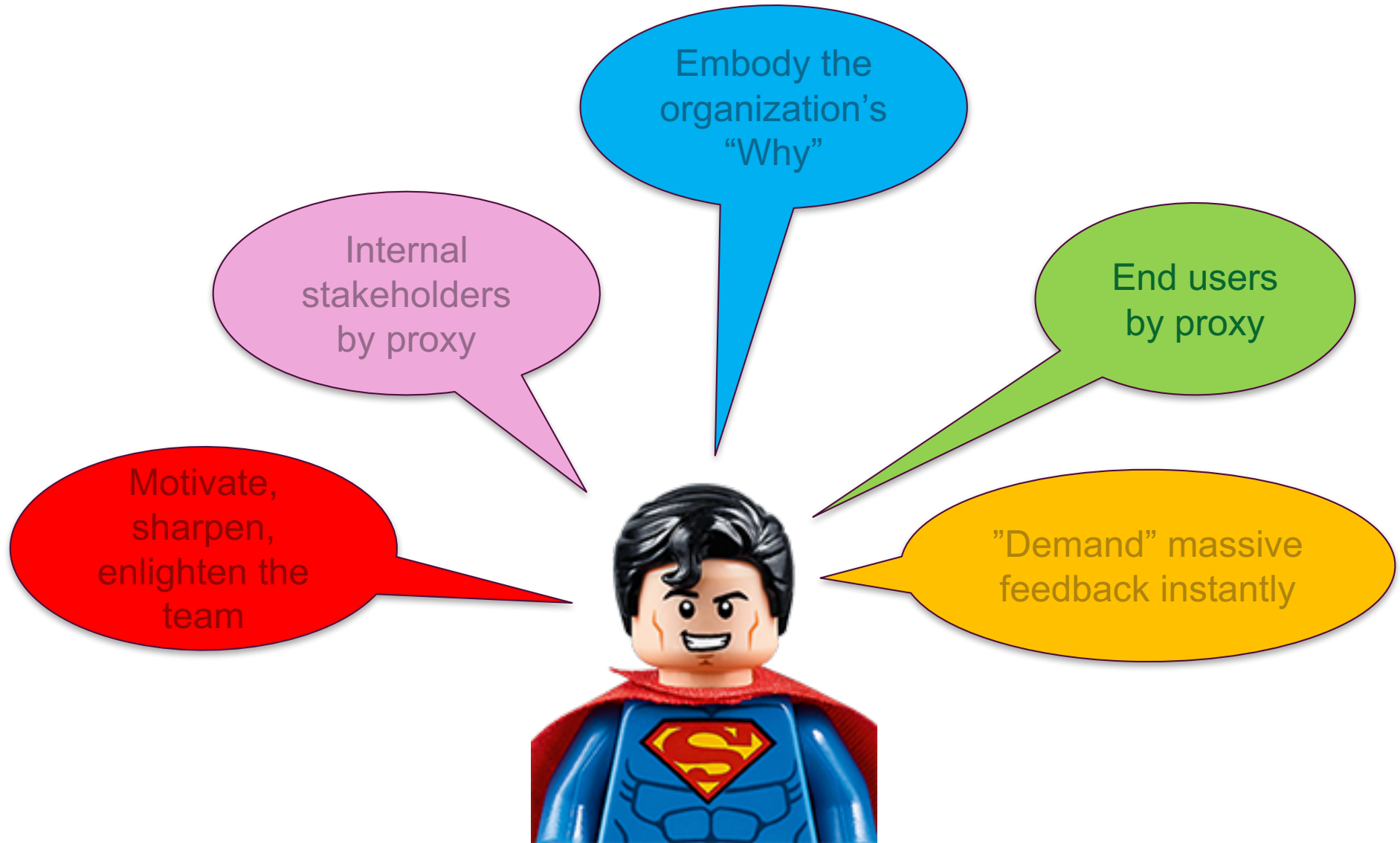




Example DevOps Team Skills



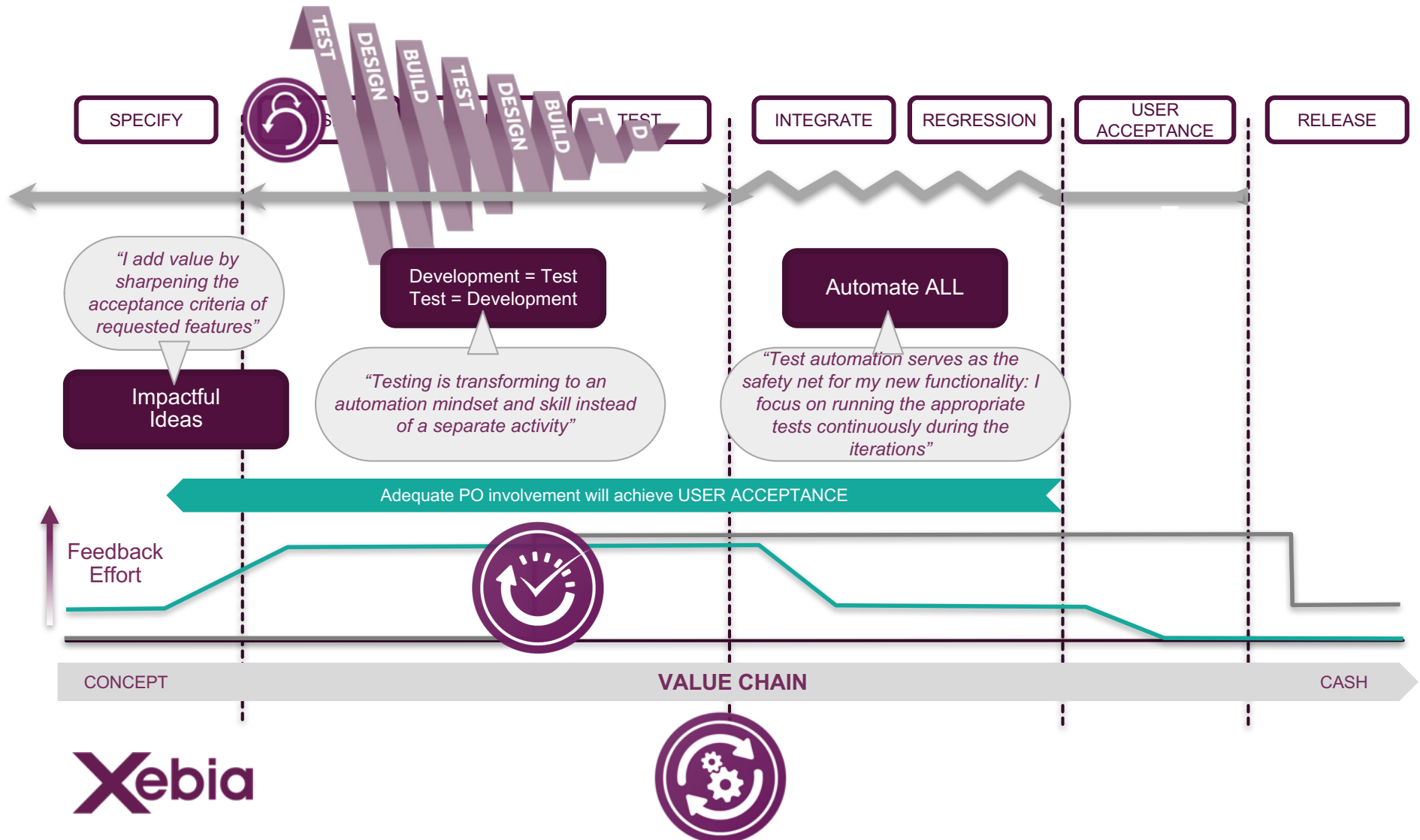


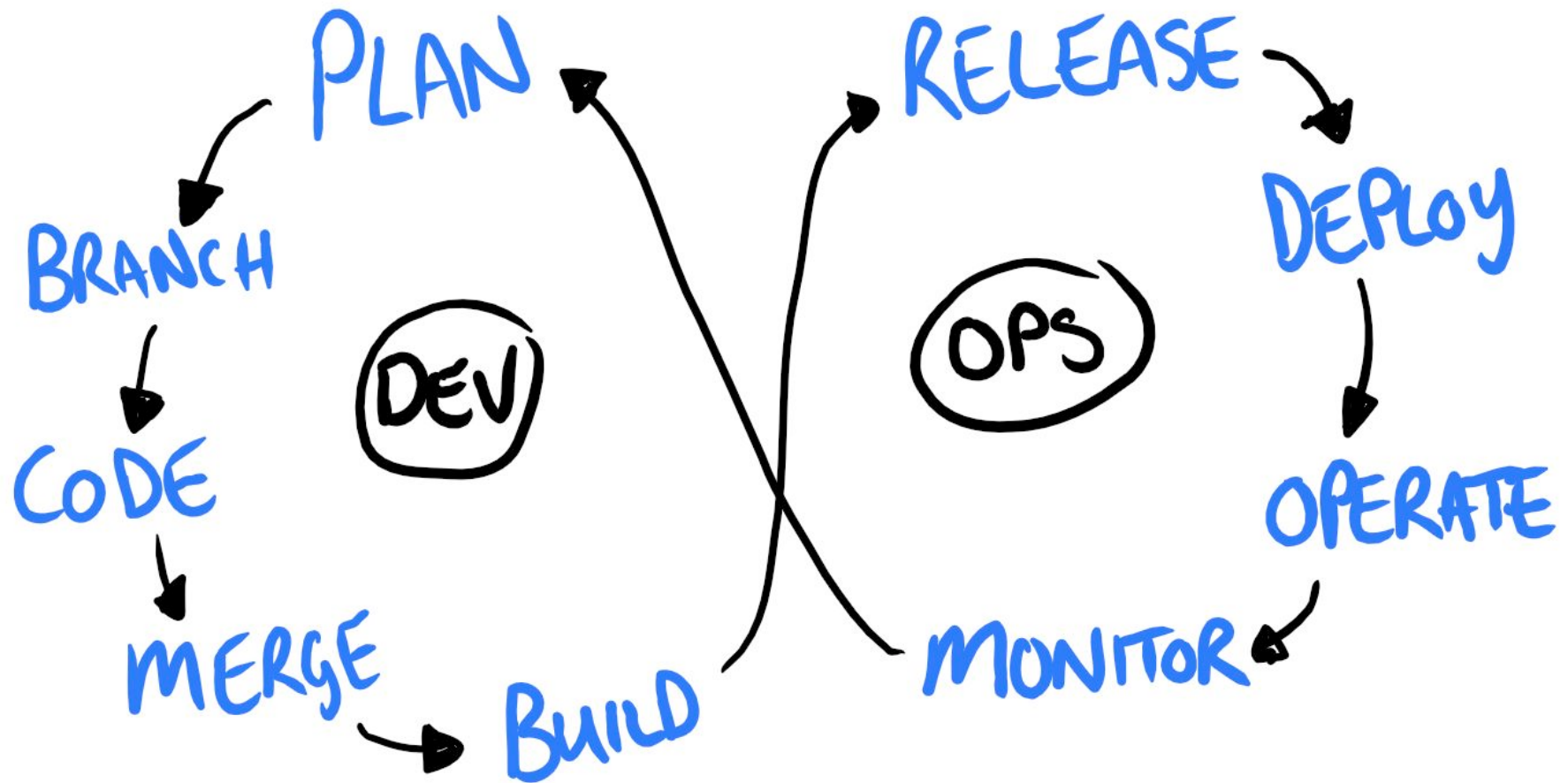


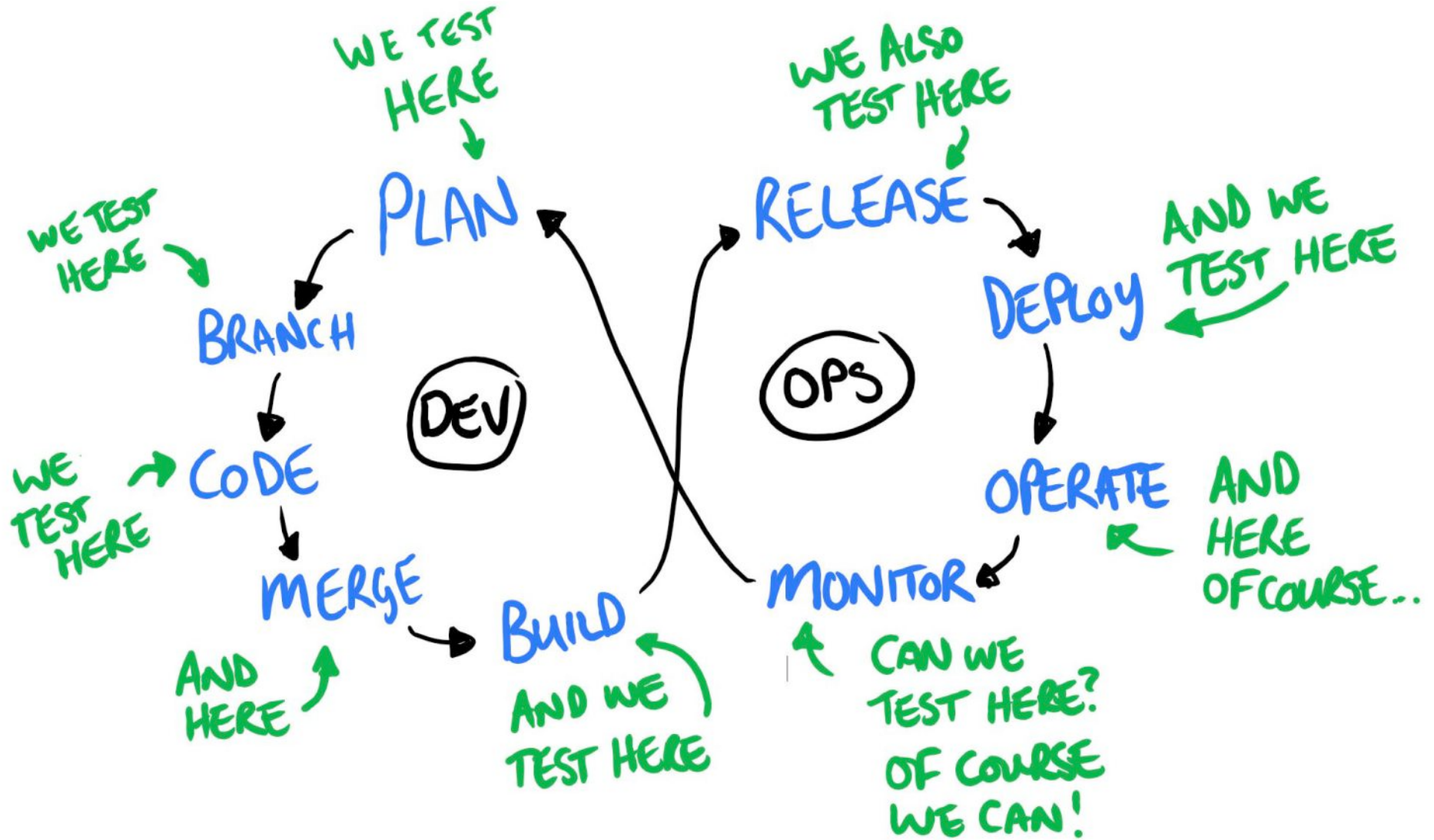
Tying it all together



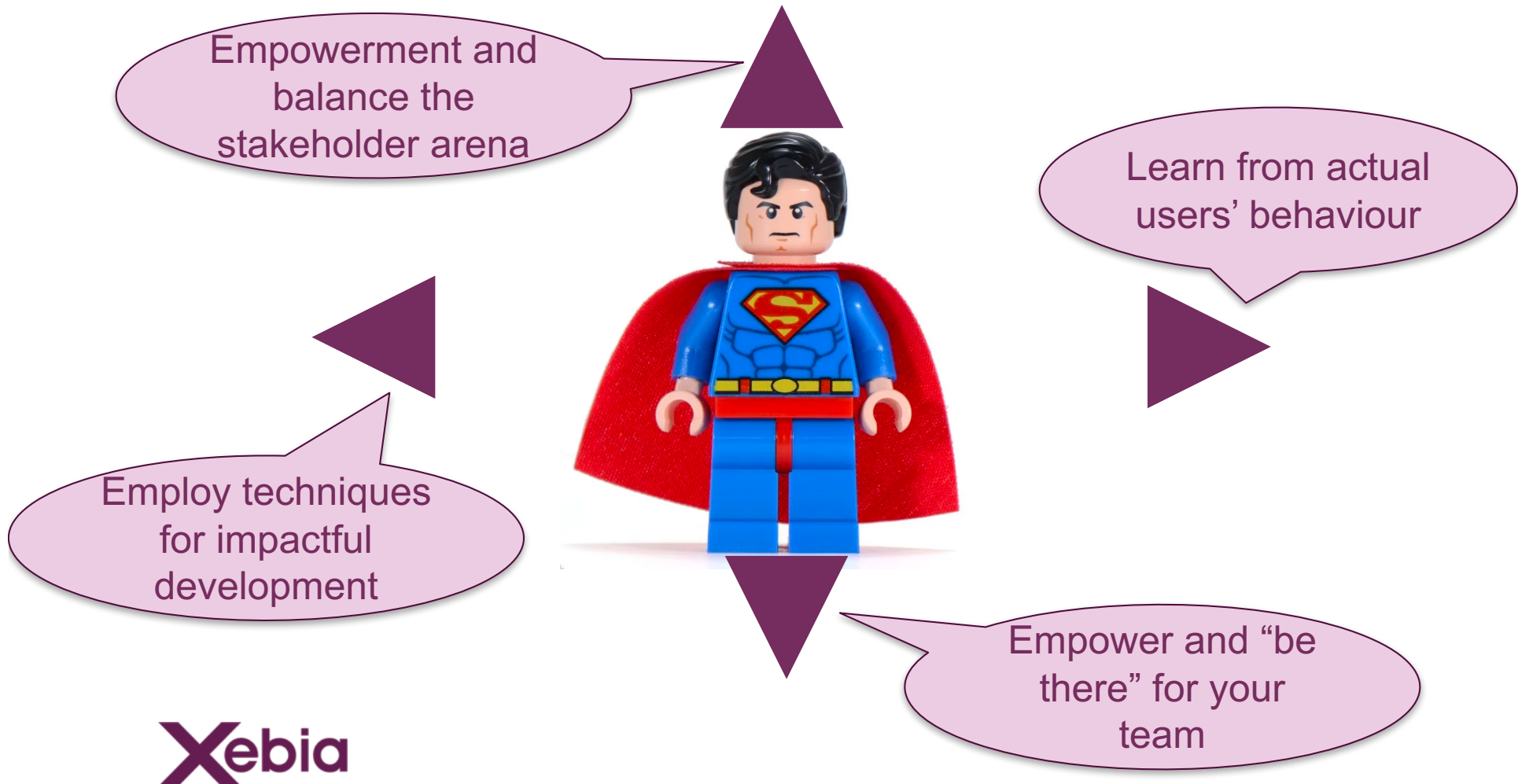
Deliver Continuous Feedback








Summary - The PO's Stretch



Summary - Take-Aways

- “Dear PO, get your calendar up to par”
- Demand empowerment
- The demo-effect – who is running your demo?
- ... and start to organize out of the box creative sessions with actual users; that’s where revolutions await

Feedback is the most
essential part of every (IT) 
delivery process

What's Next?

- Visit
 - <http://xebia.com/agile-transformations>
 - <http://xebia.com/test-automation-quality>
- Become a Product Samurai
 - <http://blog.xebia.com/author/clukassen>
- Visit (you, your colleagues) our next seminar (March 30th, next week!)
 - Learn from the (technical) trenches on Quby's implementation
 - <http://pages.xebia.com/build-quality-in>