

# DevOps Dojo

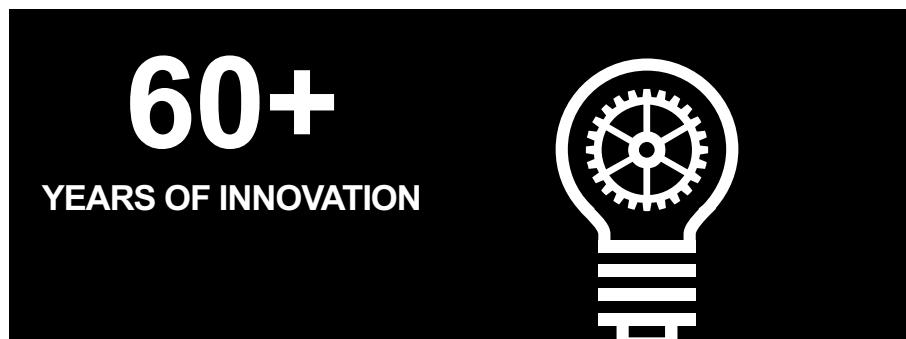
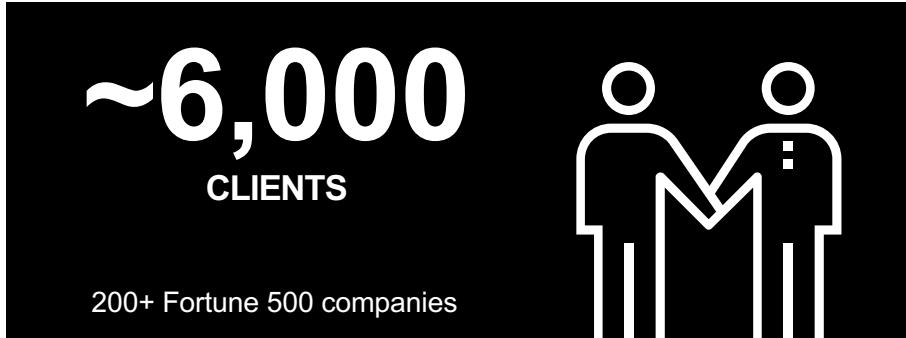
## A massive internal DevOps coaching program

Olivier Jacques  
IT Distinguished Technologist

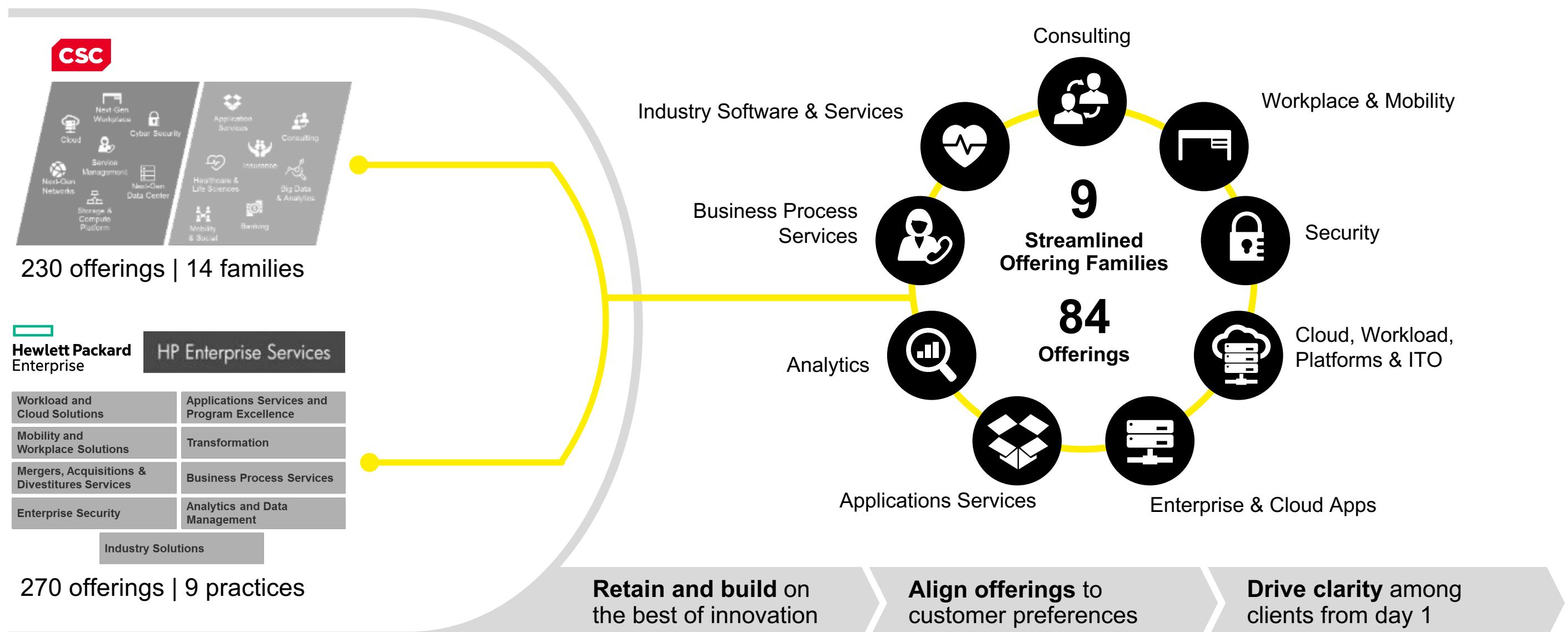
Slawek Zachcial  
IT Manager

# DXC Technology at a glance

DXC  
LISTED  
NYSE



# Streamlined offerings combine best innovations from CSC, HPE-ES and partners



# How our DevOps transformation went

1



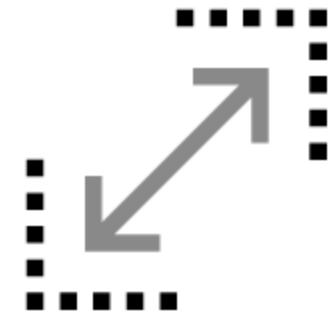
Pockets of awesome

2



Global Pilot Program

3



Scale-Up

# How our DevOps transformation went

1



Pockets of awesome

Gurus

2



Global Pilot Program

Cool club

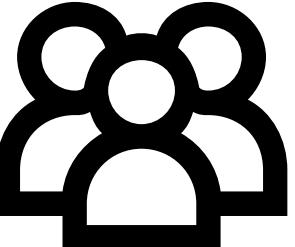
3



Scale-Up

Hiring frenzy

<''>(C\_O\_O)<''>



# Culture

Ownership  
Autonomy  
Business Outcome



# Tech

The Pipeline(s)

# How do we spread the culture and the skills throughout the company?

(aka: the elephant in the room)

# DevOps Dojos: flexible coaching program



White

Green

Black

Internal DevOps days, Hackathons

# DevOps Dojos: flexible coaching program



## 1 day

### White

**1 day training**

For leaders and executives

Understand what DevOps is, how it is different

Leading DevOps teams

Leading change for the organization



## 1 week

### Green

**One week training**

For Dev and Ops team members

Theory, serious games, hands on labs

Culture and Technology



## 1-2 weeks+

### Black

**Hands on DevOps coaching**

For Dev and Ops

For 1 or 2 application teams

Team's own work

# Green

Microservices architecture Home Handy Tablet Sign In ▾

## Most ordered products in each category

MOTOROLA BRAVO with MOTOBUR  
Motorola CHARM with MOTOBUR

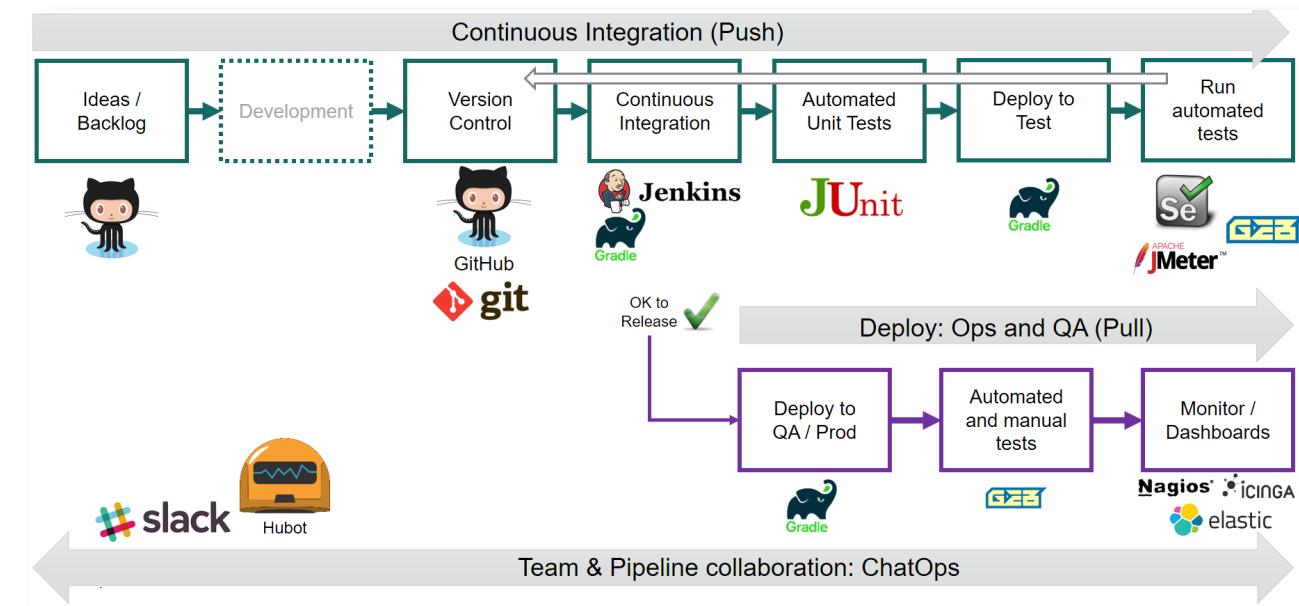
Code licensed under Apache Open Source

## Shopping Cart

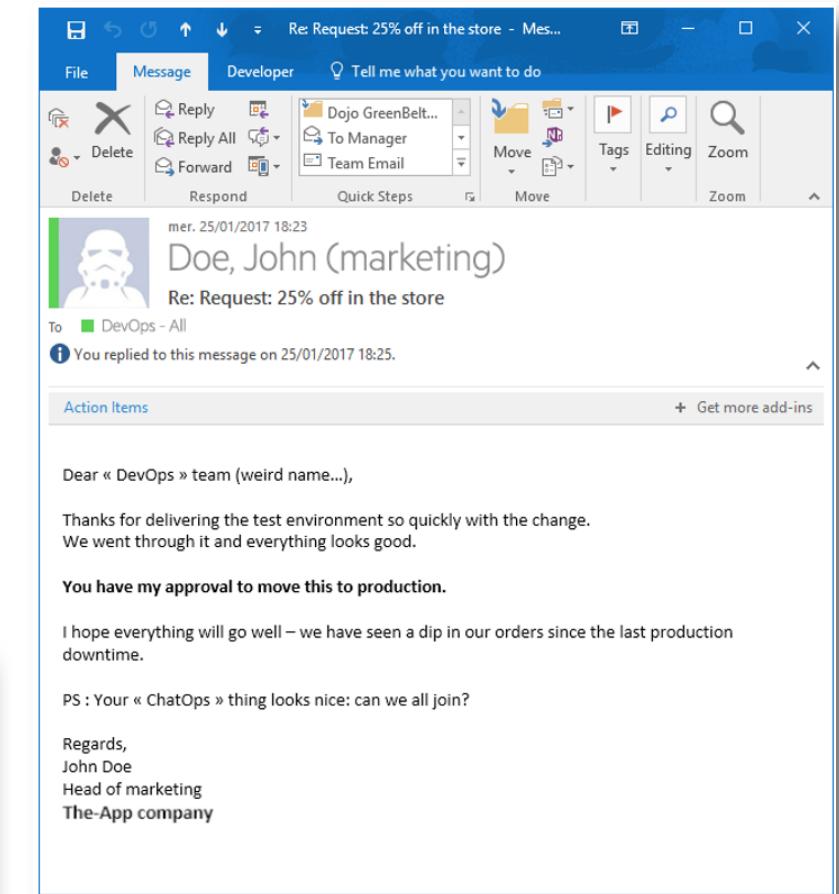
| Name     | Price  |
|----------|--------|
| Subtotal | \$0.00 |

Proceed to Checkout

## A sample application



## A Continuous Delivery Pipeline

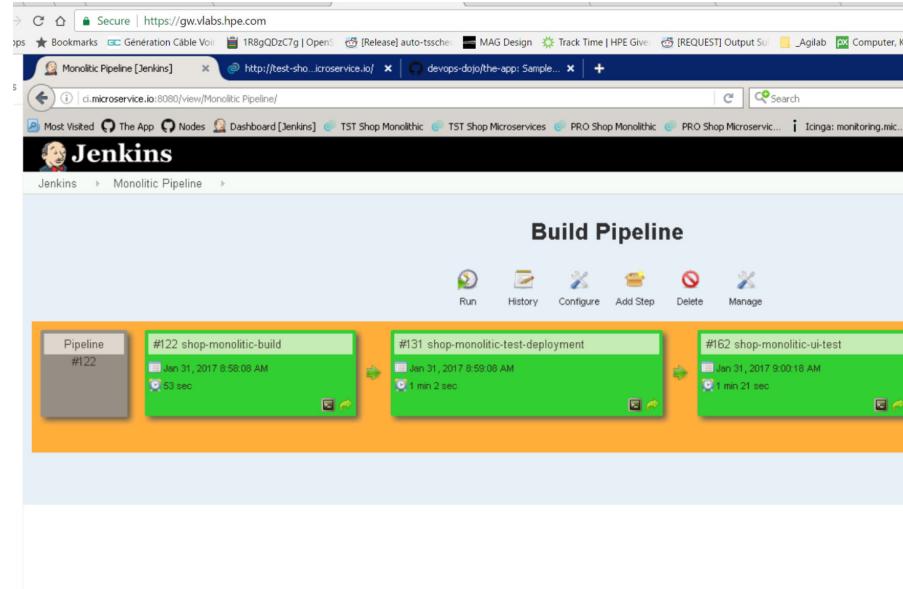


## A story

# Green

# R&D IT DevOps Dojo Green Belt

Houston Feb 2017



# One DevOps Dojo Greenbelt Summary

Green

**5 Days** of labs,  
exercises, lecture (culture,  
tools, pipelines, practices)



**83** Survey comments to help  
us continuously improve Dojo



**68%** now ready to  
champion within team

**30** Participants (Dev, QA,  
Ops, PM's, Support, Consulting)

"I would like to recommend  
this training as offering to  
DXC external clients. Lets  
discuss"

No Test Phases  
CD Pipelines  
**Infrastructure as Code**  
Blue-Green Deploys  
**GIT Flows**  
Rapid Feedback Loops  
**Change Record**  
Auto-Deployment  
**DevOps Culture**  
Minimal Viable Product  
ChatOps  
**DevOps Kaizen**



**90%**  
would  
recommend  
to others

**80-90%** state:  
"adopting will definitely  
increase our **velocity**,  
**quality**, **productivity**"



"Best course I've attended in  
my 19 years here"

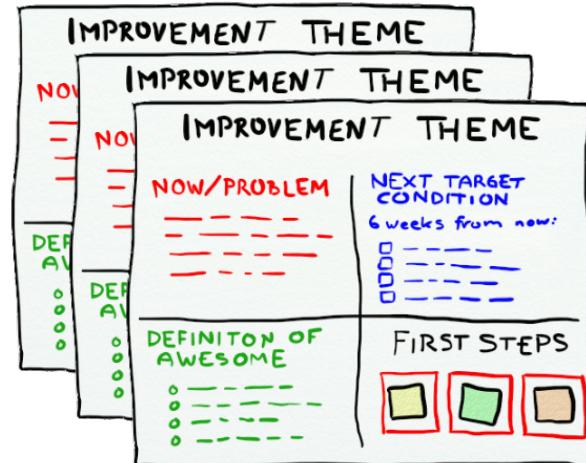
"I strongly recommend we  
conduct the training in other  
major sites"

## Discover

1

### Preparation work

- Dev + Ops team context
- Maturity calibration
- Value Stream Mapping
- Discover / define improvement themes



## Implement

2

### Black Belt Dojo

- Address improvement themes using DevOps tool box including **culture**
- 1 team champion + multiple coaches
- **2 demos to stakeholders**



## Continue

3

### Follow-up

- DevOps Kaizen
- Team champion follows progress / organize future dojos
- Earlier Dojo participants become coaches
- Viral effect: rotation opportunities through dojo – cross team expertise seeding

- Implement continuous delivery pipeline ([git](#)) with HPE Agile Manager, GitHub, Jenkins ([elastic](#) on Mesos)
- Improve [Q](#) developer collaboration / peer reviews
- Test environments on demand with Docker containers ([git](#), associated test tools)

- Implement continuous deployment pipeline for team's bot ([eye](#) see it!)
- Improve Dev / Ops collaboration with [chatops](#) ChatOps
- Improve [Q](#) developer collaboration

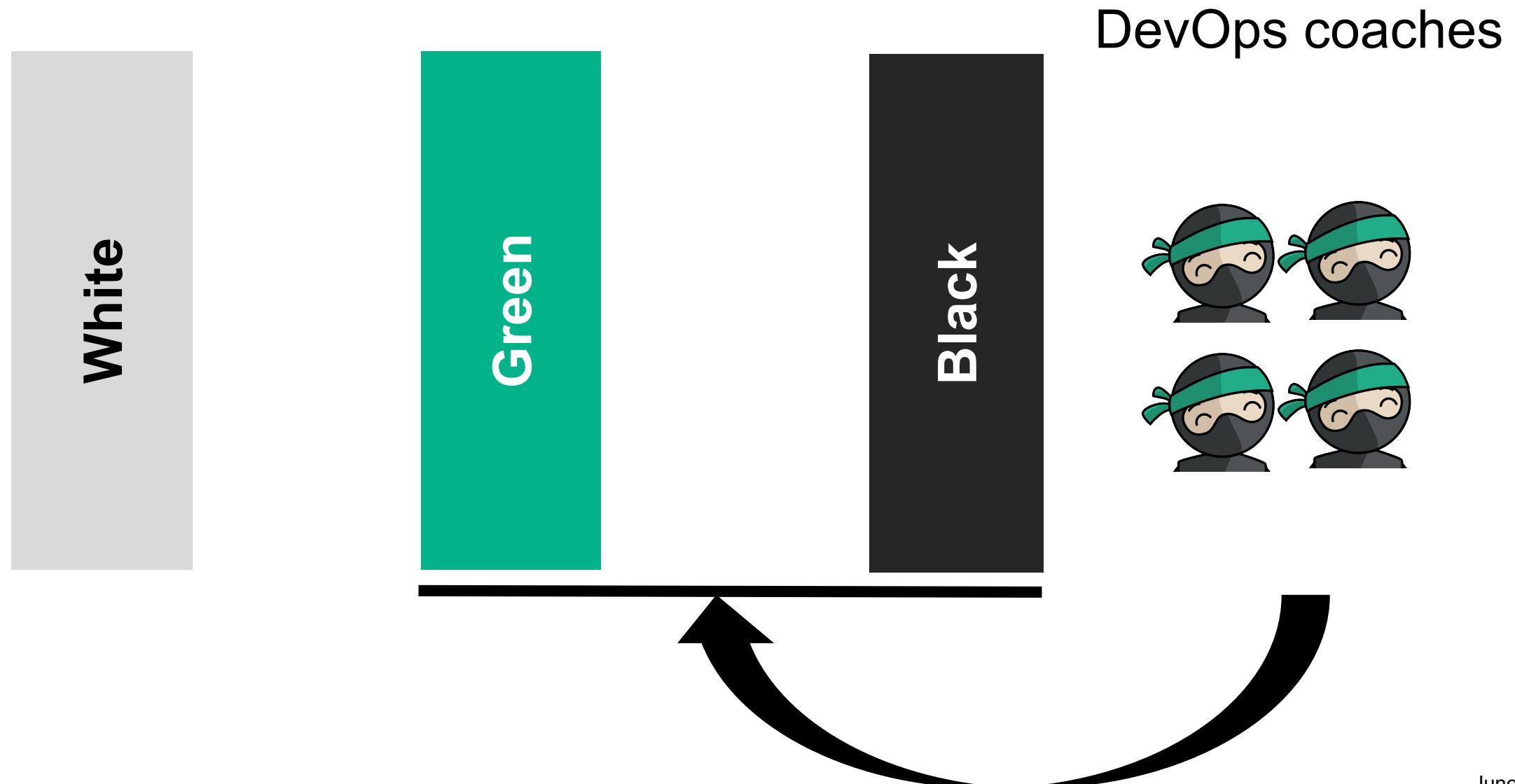
- Implement continuous delivery pipeline ([git](#)) with GitHub, J
- Improve [Q](#) developer collaboration / peer reviews ([eye](#) see i
- Improve Dev / Ops collaboration with [chatops](#) ChatOps

- Deployment automation skeleton of complex, distributed telecom product to reduce time of release test cycles and final product delivery
- Codification of product version-specific build environments to enable reliable, multi-year (10+) support of products
- Improve [Q](#) collaboration between lab, test and delivery through a shared codebase

- Infrastructure as code with Helion OpenStack
- High Availability (DNSaaS, HAProxy)
- Native Docker Containers on Windows 2016 server TP4
- DevOps Dojo productization for HPE customers (WIP)

- Implement continuous delivery pipeline ([git](#)) with GitHub, Jenkins
- Improve [Q](#) developer collaboration / peer reviews
- Test environments on demand with Docker containers ([git](#))
- Jenkins job as code

# DevOps Dojos: flexible coaching program



# One last thing...

**Sample app & pipeline**

**DevOps Game**

**github.com/devops-dojo**

Open Source, Apache v2

**goo.gl/5NoUKm**

# Here's the help we're looking for

- **Help with [github.com/devops-dojo](https://github.com/devops-dojo)**
  - More CD pipeline tools variations, better dashboards, more DevOps/Agile games
- **Making this work “virtually”**
  - Moodle? Gamifications & badges?

# Thank you!