

intuit.



# GitOps @ Enterprise Scale

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# Who we are:

1983

Founded



1993

IPO



9,000

Employees



20

Locations



~\$6.8B  
FY19

Revenue



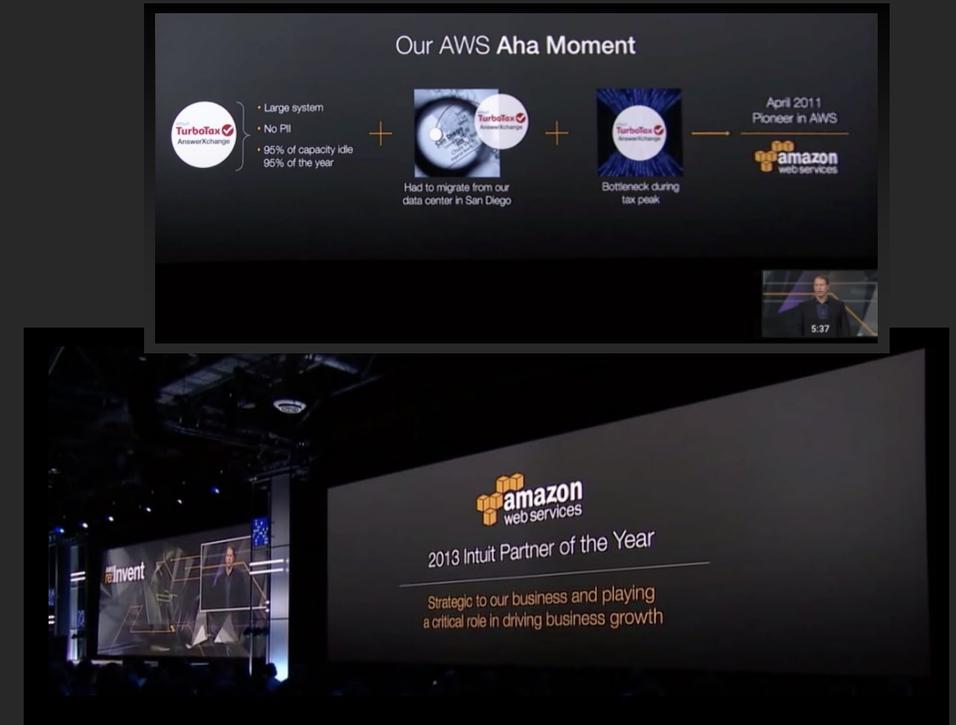
50M

Customers



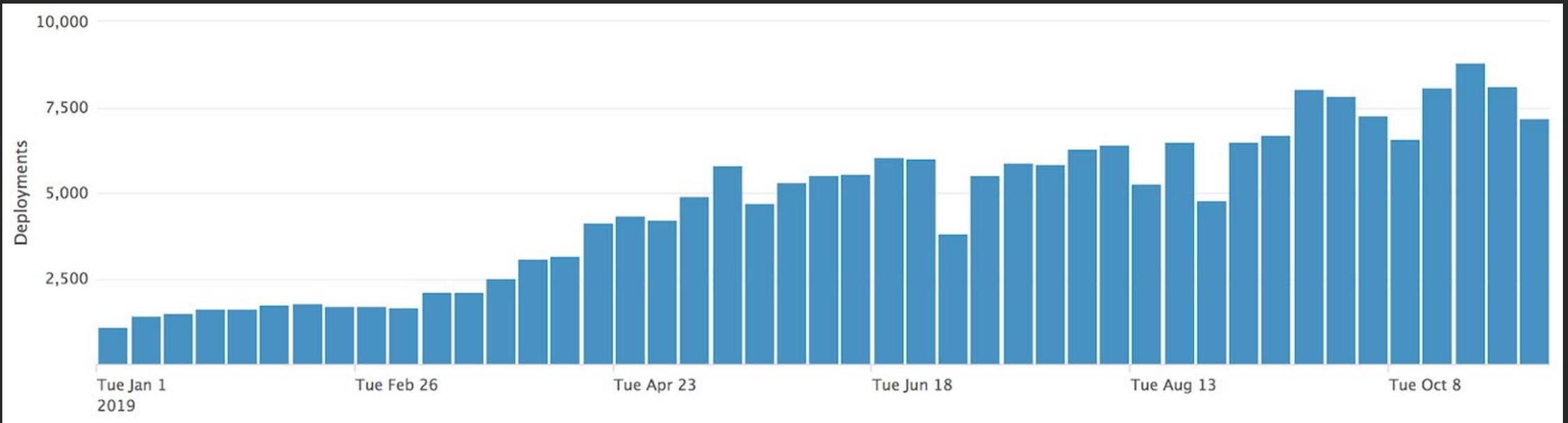
# Intuit's Cloud Journey

- Fully in public cloud (AWS) by July FY20
  - Leverage cloud native technologies
    - 10X developer productivity
    - Increase rate of innovation
    - Dramatically decrease MTTR and MTTD
  - Early 2018, Intuit acquired Applatix
    - Accelerate cloud-native technology adoption
    - Build a self-service "Modern SaaS" platform
- and that started Intuit's AWS Container journey...



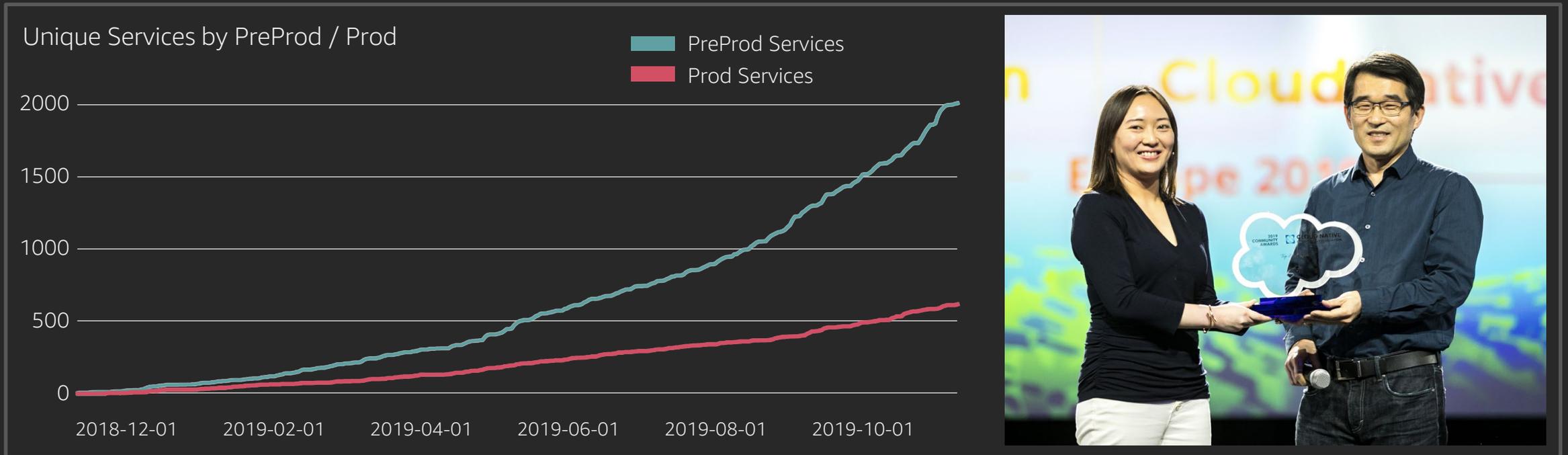
# Intuit Kubernetes Adoption

- 4 business units
- 30 business segments
- 1,200+ developers using Kubernetes
- 160+ clusters (Intuit managed)
- 6,600 nodes
- 5,400 namespaces
- 62,000 pods
- 1,300 deploys a day



# Intuit Kubernetes Adoption

By 2019 160+ k8s Clusters | 6K+ Nodes | 3 AWS Regions



MTTR  
45 to 5 minutes

DEPLOYMENT CYCLE  
Days to minutes

SERVICE CREATION  
Less than 10 minutes

CNCF PROJECTS USED



# Intuit Development Platform - "Modern SaaS"

UX

## Modern SaaS - User Experience

IDS



Mobile SDK & frameworks



Plugin Tools



Apollo GraphQL client



Shell Service



App Exp Registry



Plugin Registry



Services

## Modern SaaS - Services & Platforms

Intuit API-GraphQL/IEDM



Onboarding/Service Lifecycle



Service Components - Config/Messaging/Registry

Argo Workflows



Streaming/Data



AI/ML



Ecosystem

Dev Portal  
(Asset Lifecycle)



GitHub  
(Apps as Code)



IBP  
(Build & Test - CI/d)



TES  
(Test Engineering Services)



JFrog  
Artifactory  
(CPD)



Argo CD/  
Experiments  
(GitOps)



Observability - Logging, Monitoring, Tracing



Core Platform

Multi-Cluster Service Mesh and Gateway



Intuit Kubernetes Service

(Core Kubernetes with Intuit Network & Security policies & best practices)

Security & Compliance



MPA/ODL

KOPS & EKS



AWS Infrastructure

VPC, ALB/NLB, S3, RDS, DynamoDB, ElastiCache, ...



Plan & Design

Develop

Build & Test

Deploy & Scale

Operate

# Intuit Modern SaaS Platform Demo

## Create a new service on Intuit Modern SaaS Platform

- Three code repositories - code, configuration, deployment
- Default, customizable deployment pipeline in Intuit Build Platform
- Artifactory folder
- Two default Pre-Prod environments (QA & E2E)
  - Isolated Namespaces on Intuit managed k8s clusters
- Out of the box monitoring with Wavefront
- Out of the box logging with Splunk
- Argo CD app deployments

intuit.



# Demo

# Argo - Get stuff done with Kubernetes!



- Argo is a Kubernetes-native **Application Delivery Platform** for running and managing jobs and applications on Kubernetes
- Argo makes it easy to combine workflows, events and deployments to declaratively create jobs and applications on Kubernetes
- [Argo Workflows](#) - Container-native Workflow Engine
- [Argo CD](#) - Declarative GitOps Continuous Delivery
- [Argo Rollouts](#) - Declarative Progressive Delivery and Experimentation
- [Argo Events](#) - Event-based Dependency Manager

# Argo Community Contributions

6000+ Stars, 900+ forks, 240 contributors, 1700 slack members

60% of contributions to Argo are from the community

147 releases

Contributions include major features, complete with GUI

Argo CD 1.3

24 out of 29 are external contributors

<https://github.com/argoproj/argo-cd/releases>

# Argo Community (Public References)

 Alibaba Cloud

BLACKROCK



CoreFiling 



cødility



END.



GitHub

Cratejoy



DATADOG

IBM

Interline

Intuit

KARIUS

Gladly

Google

G METRI

MAMBU

Quanta**bio**



MIRANTIS



KompiTech

Lytt

Localytics

Max Kelsen

riskified



NVIDIA



TESLA

optoro

OVH

Preferred Networks

YL+ Yieldlab



styra

OpenSaaS  
STUDIO

threekit

ticketmaster®

tZERO

ubio

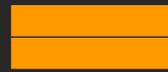
# Unify a set of projects and communities and house in CNCF



Argo CD



Flux CD



Argo Flux

