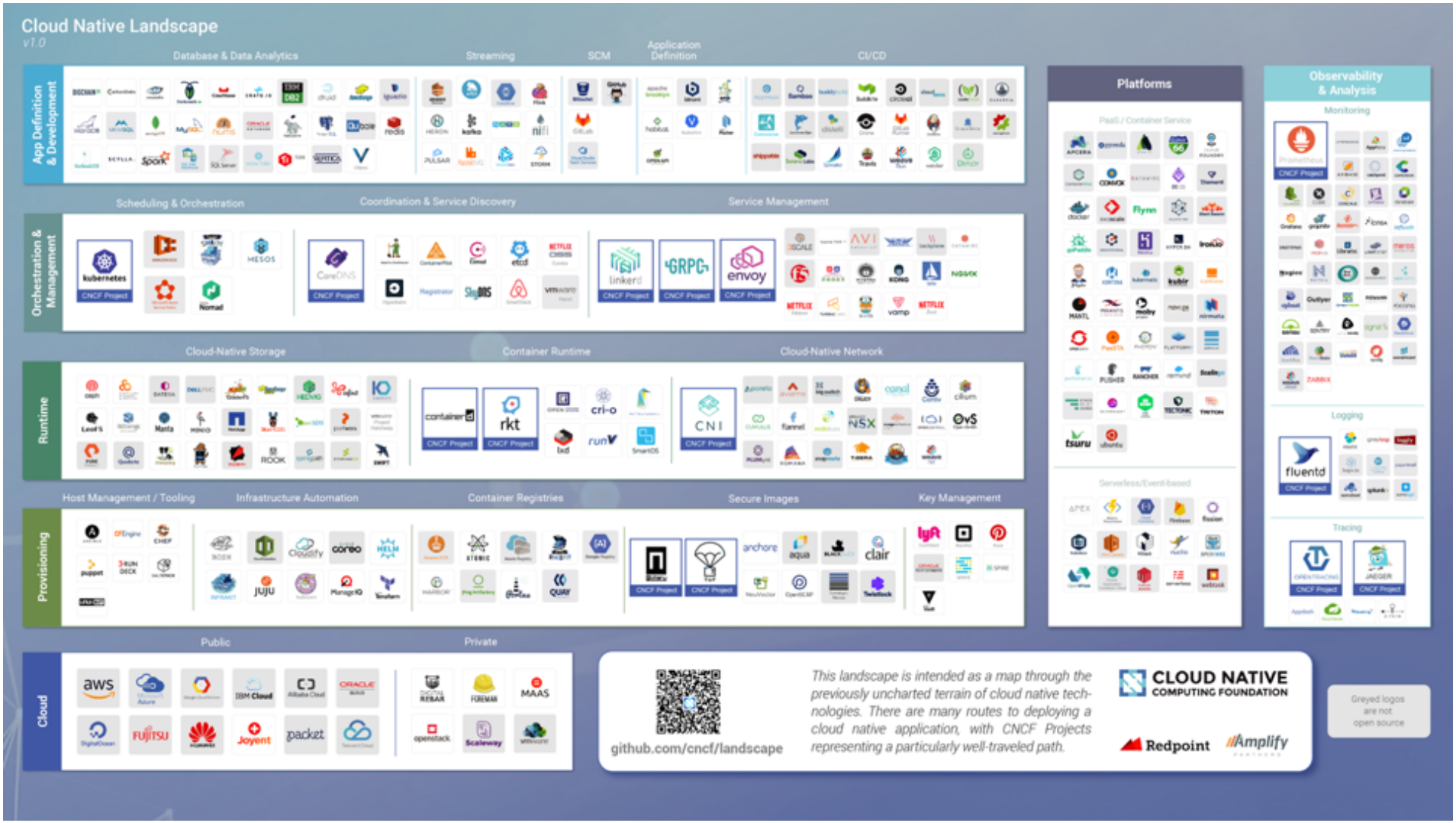
KubeCon
CloudNativeCon
North America 2017
A Community of Builders
Dan Kohn (@dankohn1)
CNCF Executive Director
December 6, 2017

RENTALS PRIDE (800) 564-PRIDE

“Exciting times for boring infrastructure”

-Tim Hockin @thockin


Cloud Native Landscape
v1.0
App Definition & Development
Database & Data Analytics
Streaming
SCM
Application Definition
CI/CD
Orchestration & Management
Scheduling & Orchestration
Coordination & Service Discovery
Service Management
kubernetes
CNCF Project
MESOS
Nomad
CoreDNS
etcd
linkerd
GRPC
envoy
Runtime
Cloud-Native Storage
Container Runtime
Cloud-Native Network
container
rkt
cri-o
runV
CNI
Provisioning
Host Management / Tooling
Infrastructure Automation
Container Registries
Secure Images
Key Management
Cloud
Public
Private
aws
IBM Cloud
Alibaba Cloud
ORACLE
FUJITSU
Joyent
packet
MAAS
Scaleway
openstack
Platforms
PaaS / Container Service
Serverless/Event-based
Observability & Analysis
Monitoring
Prometheus
Logging
fluentd
Tracing
OPENTRACING
JAEGER
github.com/cncf/landscape
This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path.
CLOUD NATIVE COMPUTING FOUNDATION
Redpoint
Amplify
Greyed logos are not open source

How do we measure community?

CNCF 2016: 4 Projects

Orchestration

Monitoring

Distributed Tracing API

Logging

CNCF 2017: 14 projects

Orchestration

Monitoring

Distributed Tracing API

Logging

Service Mesh

Remote Procedure Call

Service Discovery

Container Runtime

Container Runtime

Networking API

Service Mesh

Distributed Tracing

Software Update Spec

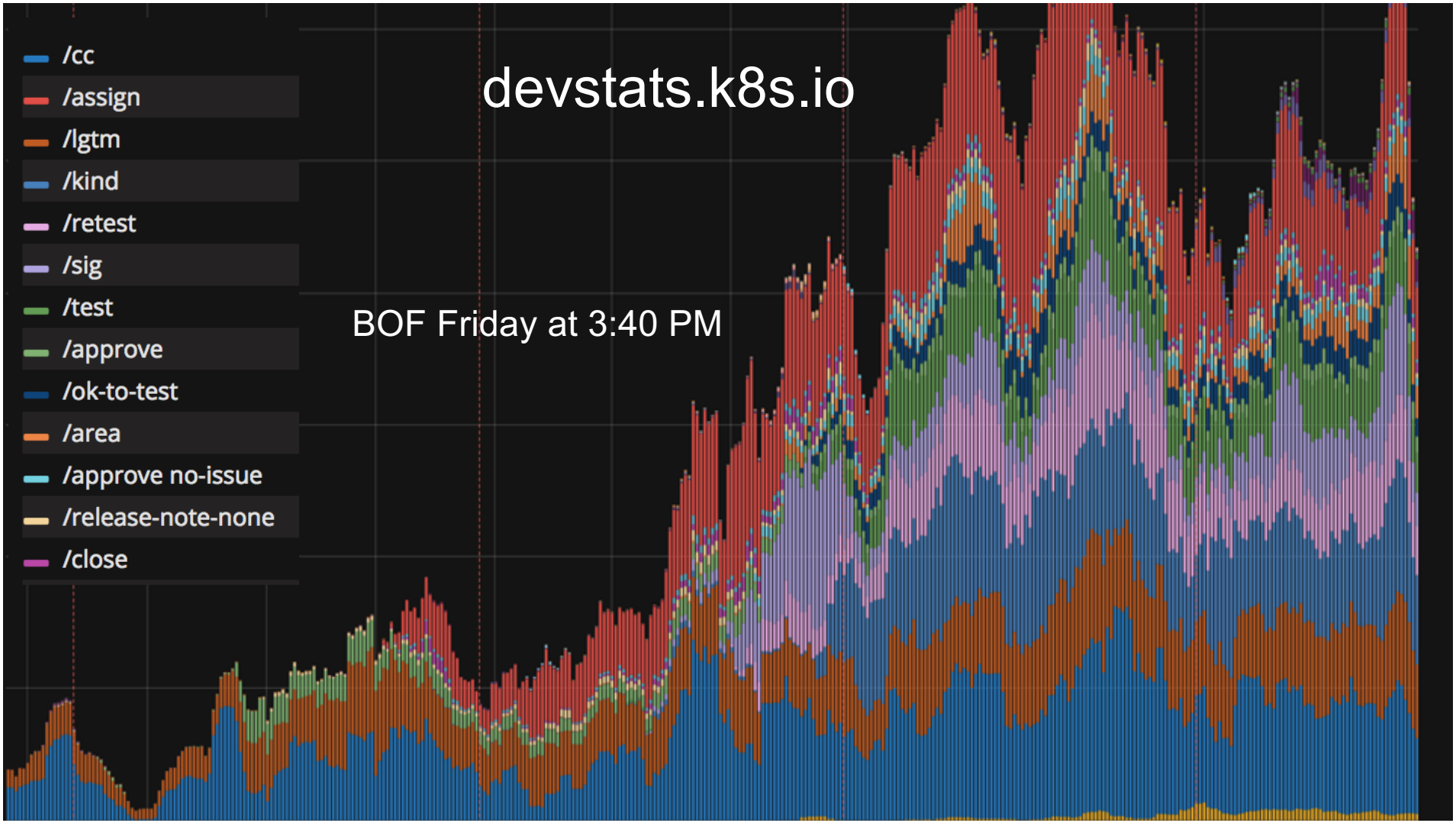
Security

kubernetes

“Kubernetes is the Linux of the cloud”

- Jim Zemlin, Linux Foundation

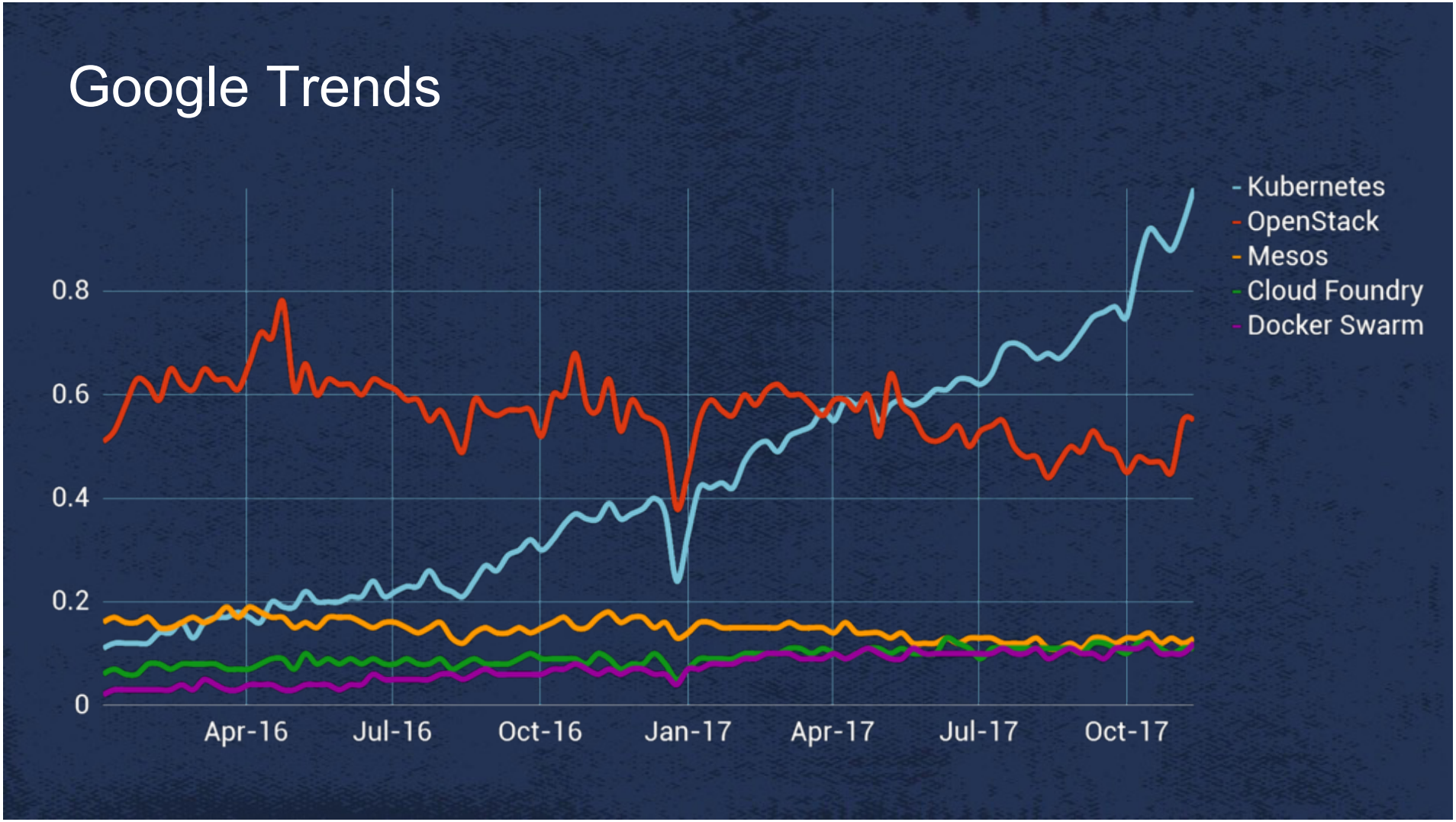
Measure	Ranking
Commits	#9
Authors	#2
Issues	#2


/cc
/assign
/lgtm
/kind
/retest
/sig
/test
/approve
/ok-to-test
/area
/approve no-issue
/release-note-none
/close
devstats.k8s.io
BOF Friday at 3:40 PM

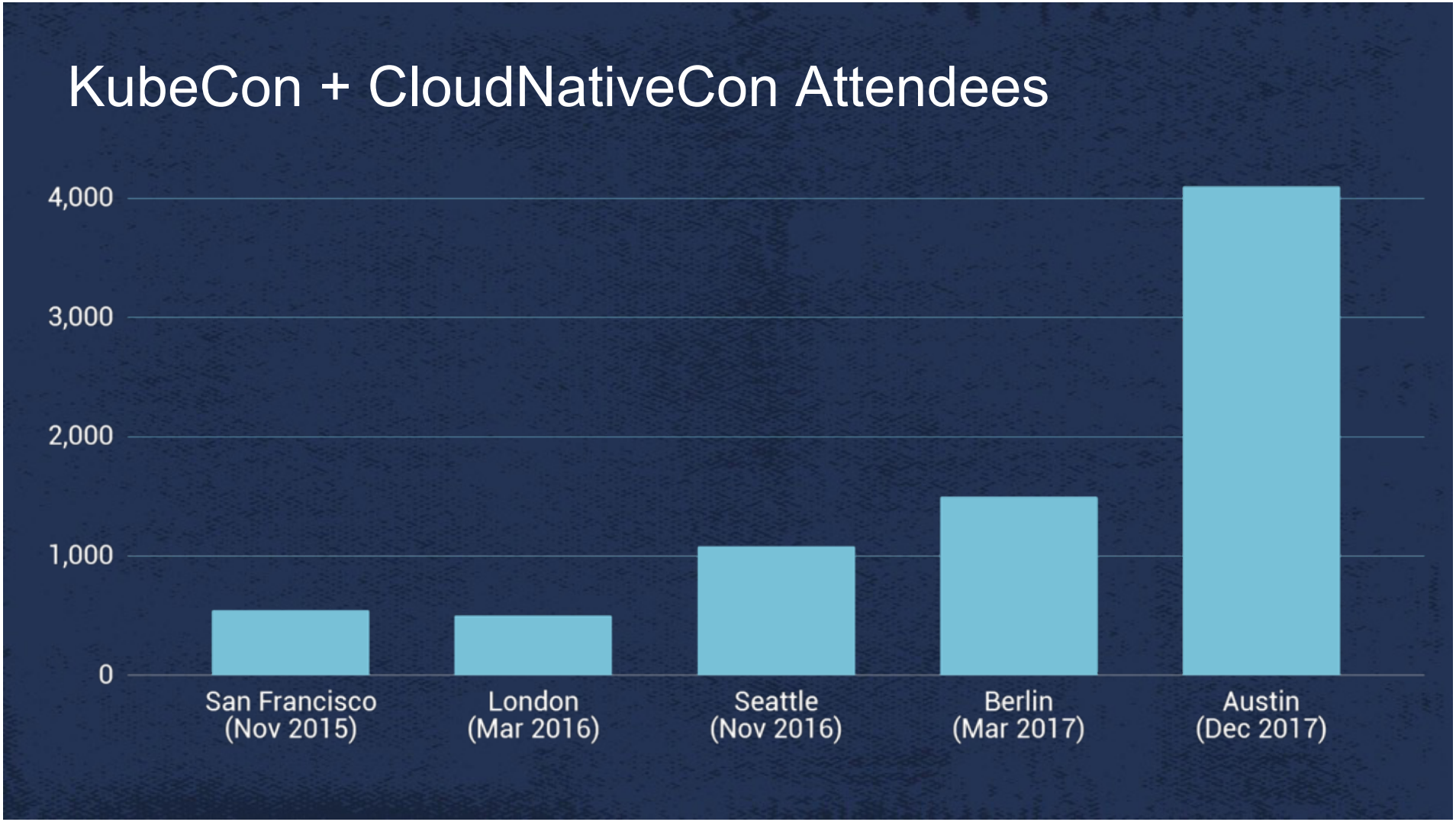
Cross-Cloud, Cross-Project Continuous Integration

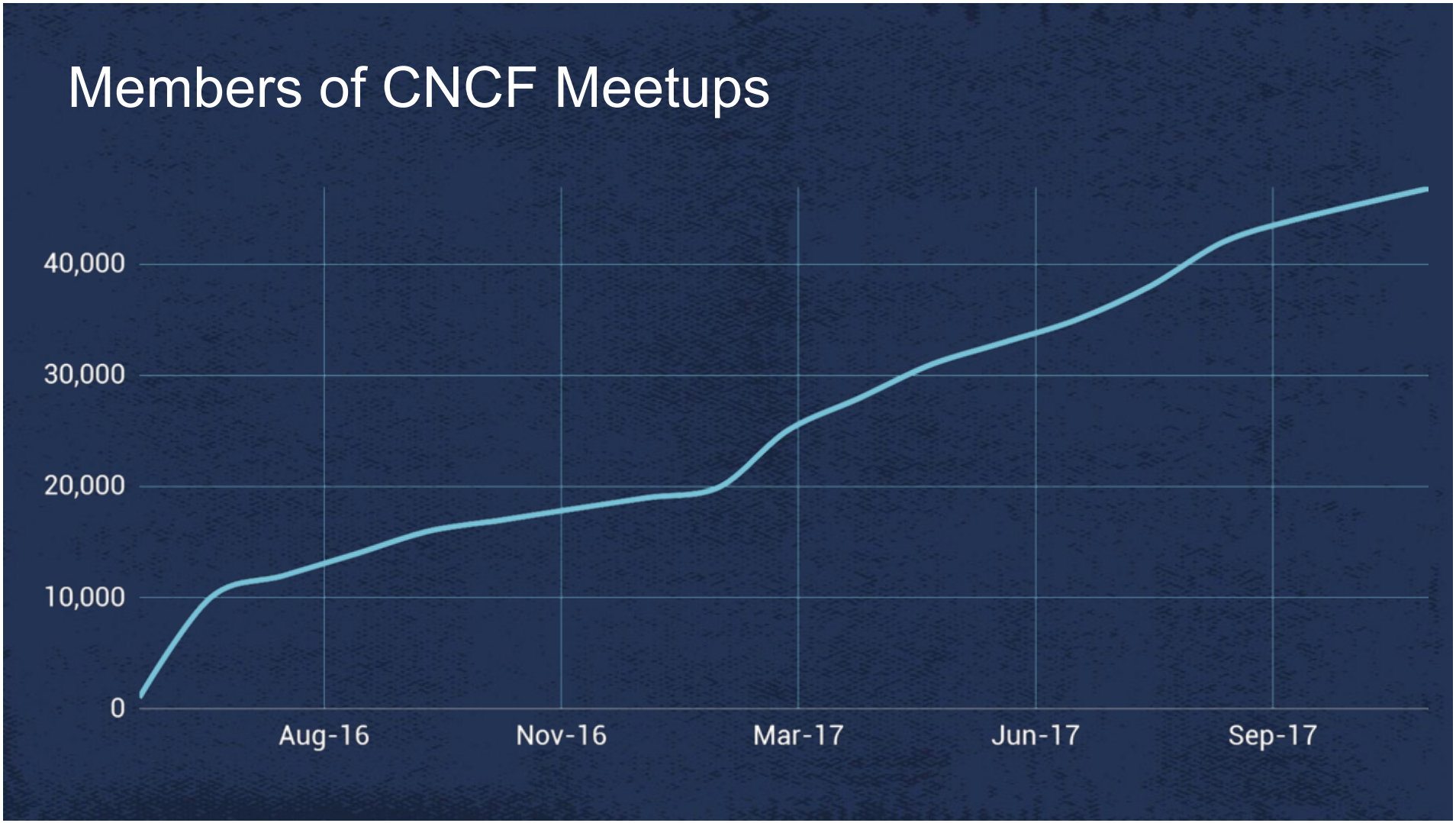
- Continuous Integration (CI) of all CNCF projects across the public clouds and bare metal
- BOF Wed at 7 PM
- https://github.com/cncf/cross-cloud

Google Trends



KubeCon + CloudNativeCon Attendees

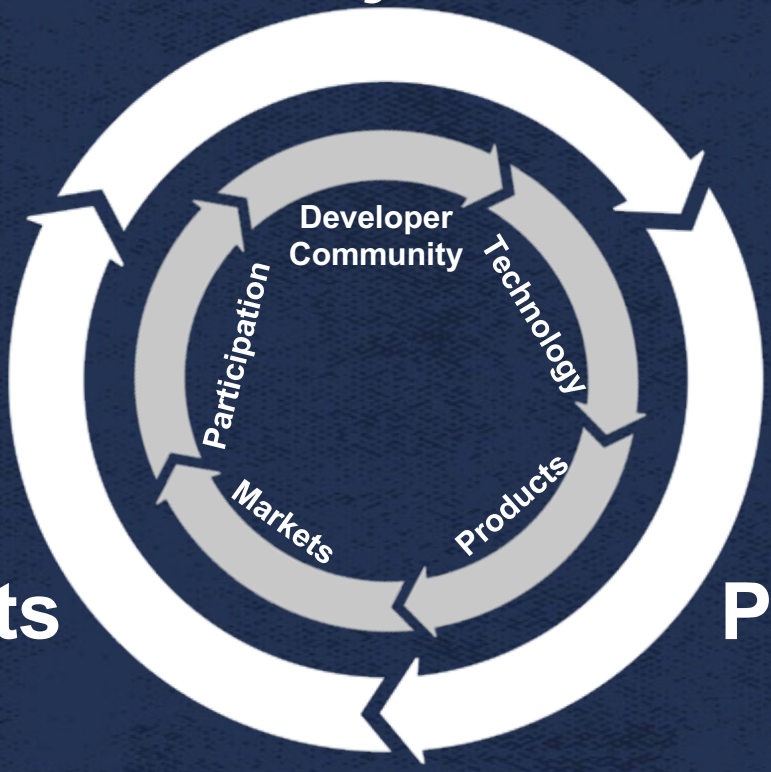



Members of CNCF Meetups
40,000
30,000
20,000
10,000
0
Aug-16
Nov-16
Mar-17
Jun-17
Sep-17

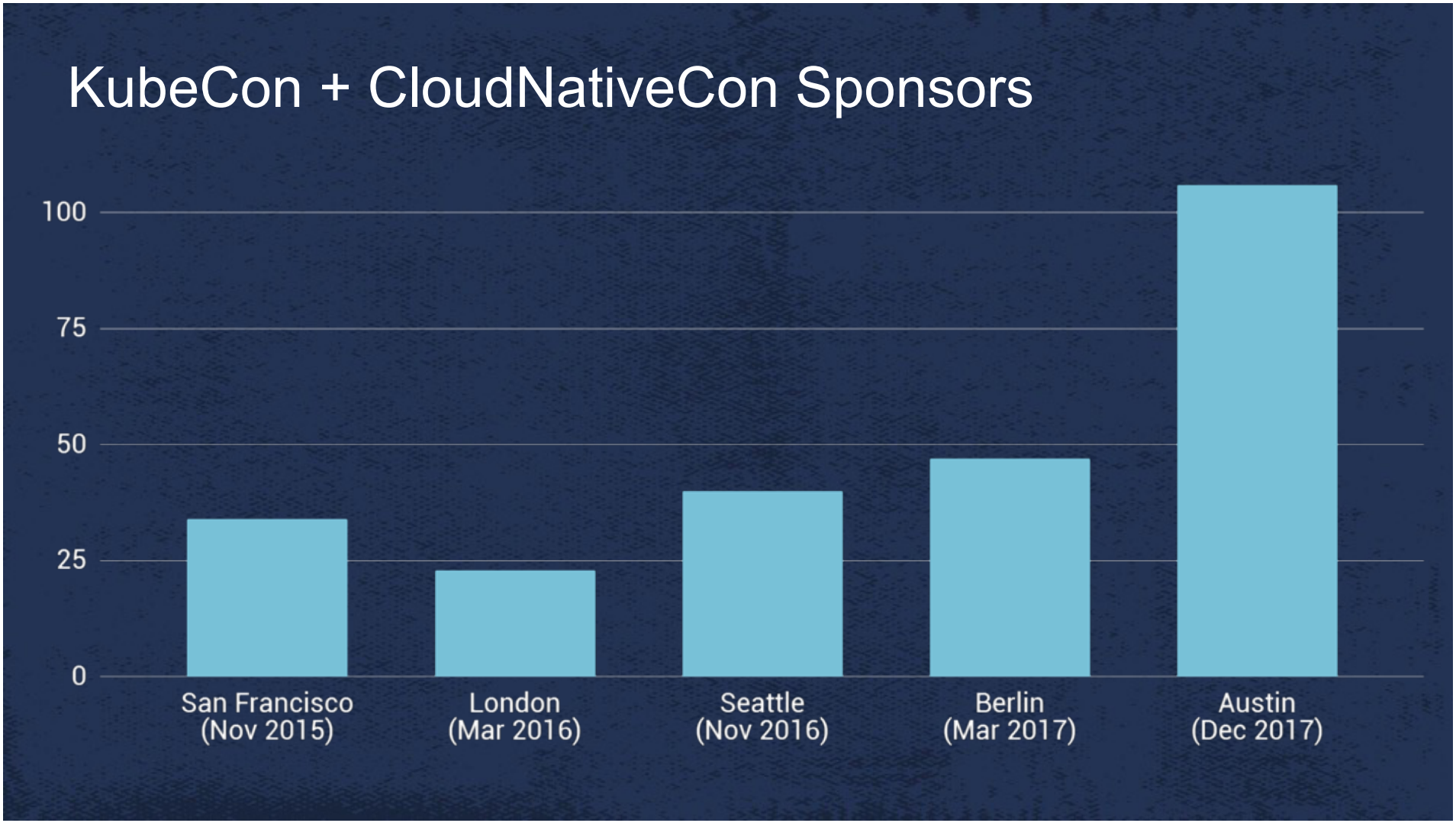
Over 16,000 EdX Registrants From 147 Countries

Kubernetes Curriculum, Training and Exam

Sustainable Ecosystems



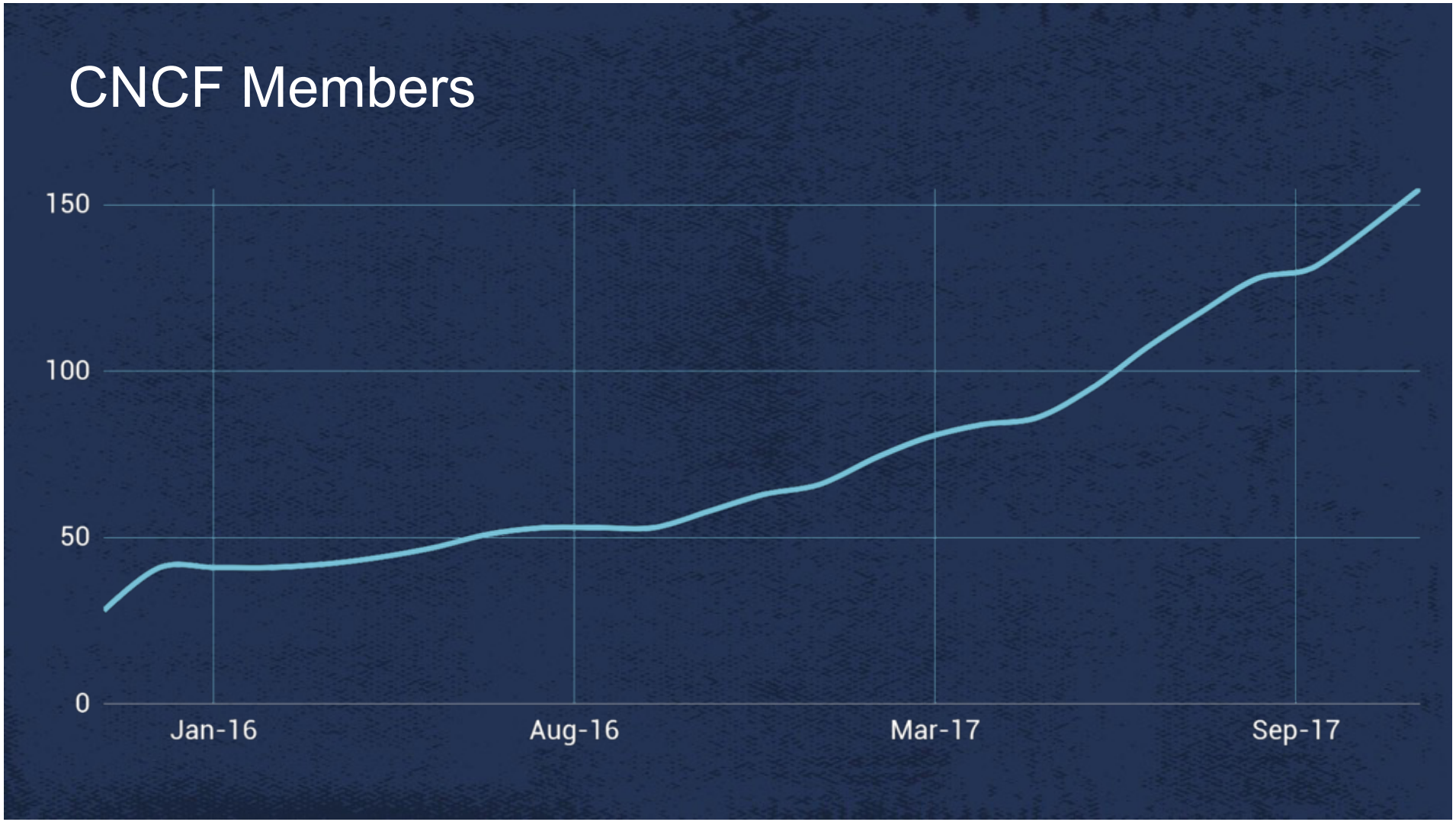
KubeCon + CloudNativeCon Sponsors



Diamond and Platinum Sponsors

DIAMOND SPONSORS

PLATINUM SPONSORS


CNCF Members
150
100
50
0
Jan-16
Aug-16
Mar-17
Sep-17

29 Companies in the End User Community

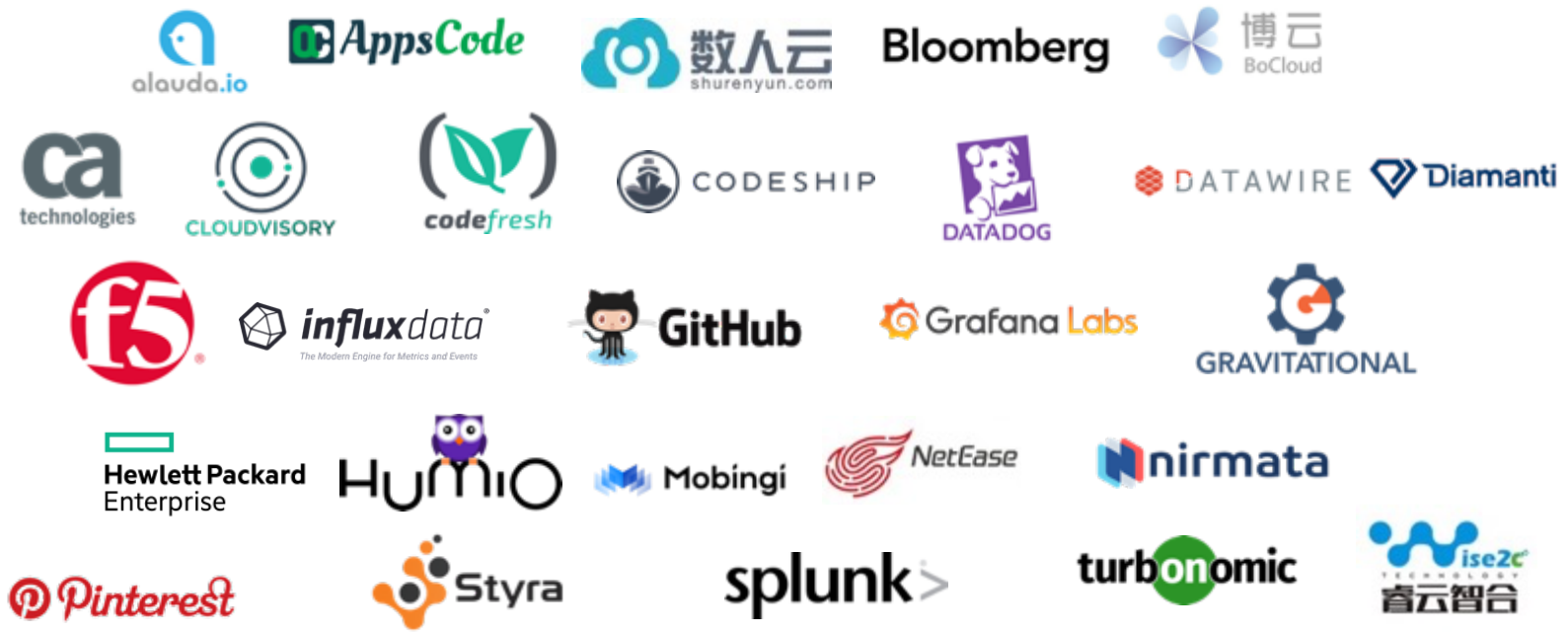
kubernetes
CERTIFIED
SERVICE PROVIDER

25 Kubernetes Certified Service Providers

certified
kubernetes

42 Certified Kubernetes Partners

27 New Silver Members



Welcome 3 New Gold Members

7 New Platinum Members in 2017

New Platinum Member

Hong Tang

Chief Architect,
Alibaba Cloud

Alibaba Cloud

- #1 cloud provider in China with 47.6% market share (IDC)
  - Among the top three IaaS providers globally (Gartner)
- Launch partner for Certified Kubernetes program
- 7 regions in Mainland China and 9 more around the globe
- Its ecommerce parent sold $25.3 billion on 11/11/2017
  - Surpassing all US online sales in Cyber Week (Adobe)
  - Processing 325K orders per second at peak

Container Technologies @ Alibaba

- Ecommerce platform: a “very large” hybrid cloud application
  - 10K container instances provisioned in 10 minutes
  - 100Ks of running containers for transaction processing
- Kubernetes support on Alibaba Cloud
  - Native integration: out-of-tree integration with native infra services
  - ML support: Helm template for one-click Tensorflow deployment. 30%+ training performance improvement over vanilla version
  - HPC support: Integration with X-Dragon Bare Metal Cloud Server. 4.5M+ pps network performance

Serverless at CNCF

- First ever KubeCon serverless track on Thursday
- Active working group: https://github.com/cncf/wg-serverless
- OpenEvents, a common specification for describing event data

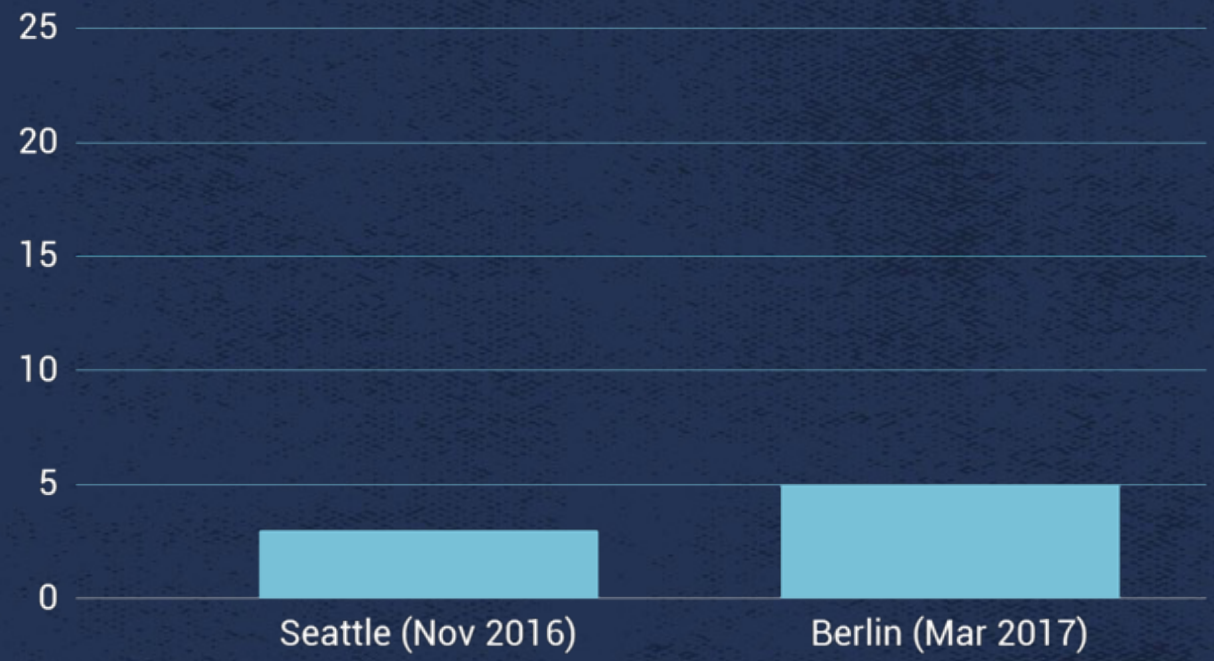
2018 Events

- KubeCon + CloudNativeCon Europe 2018
  - Copenhagen
  - May 2 - 4, 2018
  - Sponsorships and CFP now open!
- KubeCon + CloudNativeCon North America 2018
  - Seattle
  - December 11-13, 2018
  - Sponsorships open

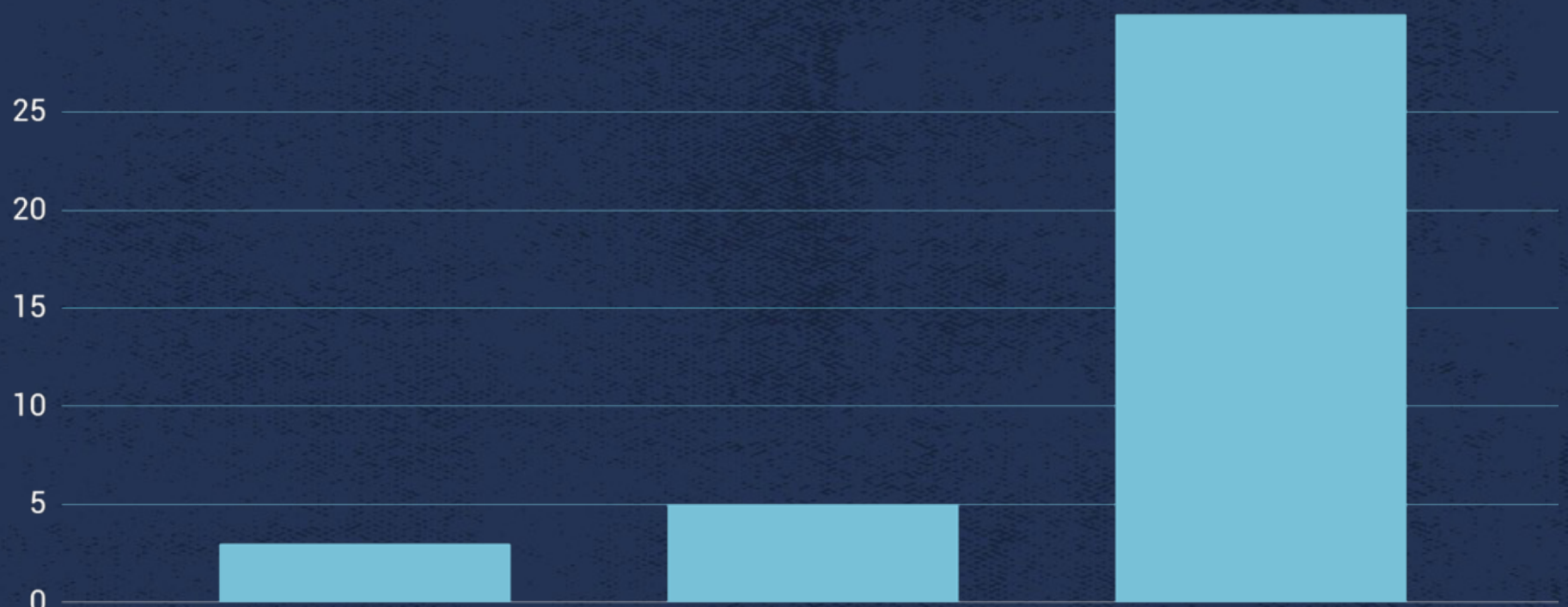
2018 New Event

- KubeCon + CloudNativeCon China 2018
  - Shanghai
  - November 14-15, 2018

Previous Diversity Scholarships



Planned Diversity Scholarships



Planned Diversity Scholarship

CNCF	$60,000
AWS	$5,000
Twistlock	$5,000
Total	**$70,000**

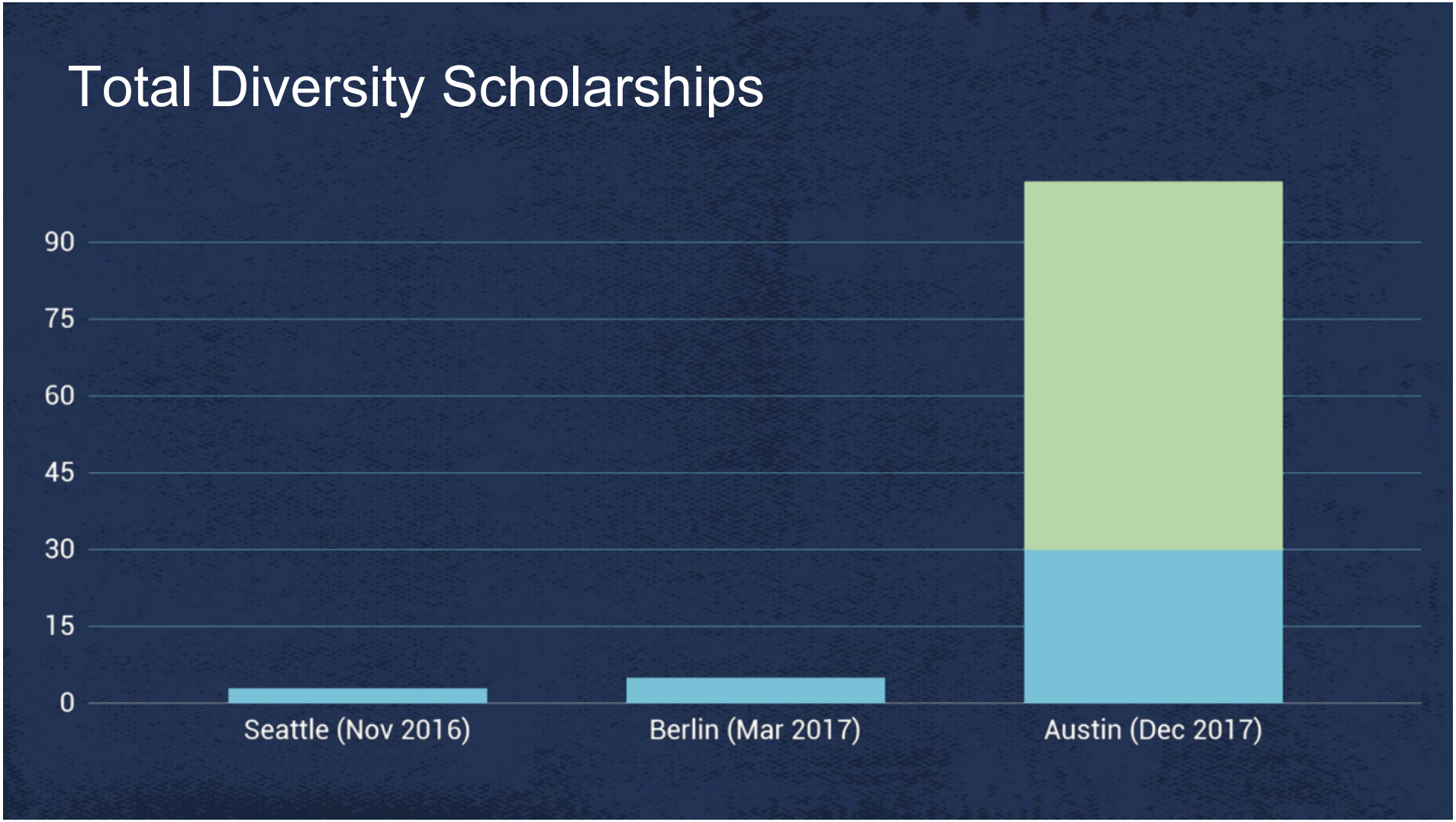
Diversity Committee

- Erica von Buelow, CoreOS
- Jess Frazelle, Microsoft
- Kris Nova, Heptio
- Michelle Noorali, Microsoft

Diversity Scholarship Funding

CNCF	$60,000
AWS	$5,000
Twistlock	$5,000
Google Cloud	$80,000
Microsoft Azure	$80,000
Total	**$250,000**

Total Diversity Scholarships



Thank you!

@dankohn1

This presentation is available at:
https://github.com/cncf/presentations