

# Navigating open source

Cheryl Hung, Director of Ecosystem, CNCF  
@oicheryl

# Agenda

1. The numbers on open source
2. Case study: Kubernetes community and CNCF
3. How can you get involved?



# Cheryl Hung (@oicheryl)

Xoogle software engineer,  
now I advocate for  
Kubernetes, cloud native  
and open source.

Founder of Cloud Native  
London.

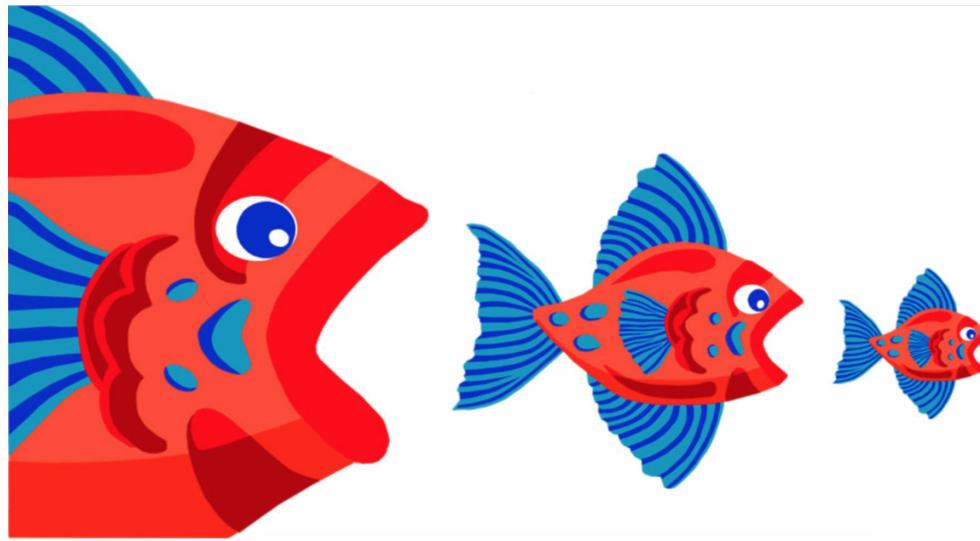


# The numbers on open source



CLOUD NATIVE  
COMPUTING FOUNDATION

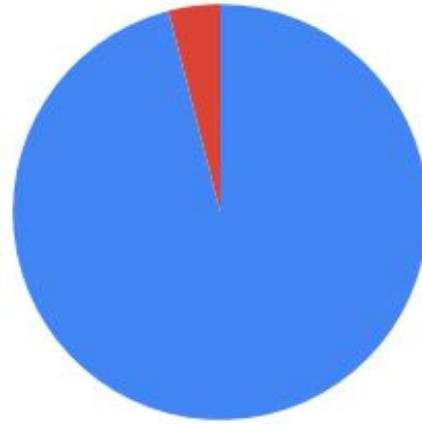
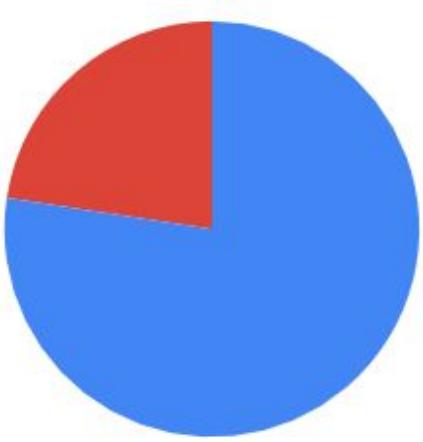
# Open source is eating the world



78% of companies [use](#) and 63% [participate](#) in open source.



# Diversity in open source is even worse than tech overall



Women vs men developers, professional (23%) and open source (4%)



# Women are just as interested as men in contributing to open source, but are

2x

as likely to have a negative encounter

2x

as likely to seek help from people they already know



# Impact is both personal and universal

“Half of contributors say that their open source work... [helped] get their current role”



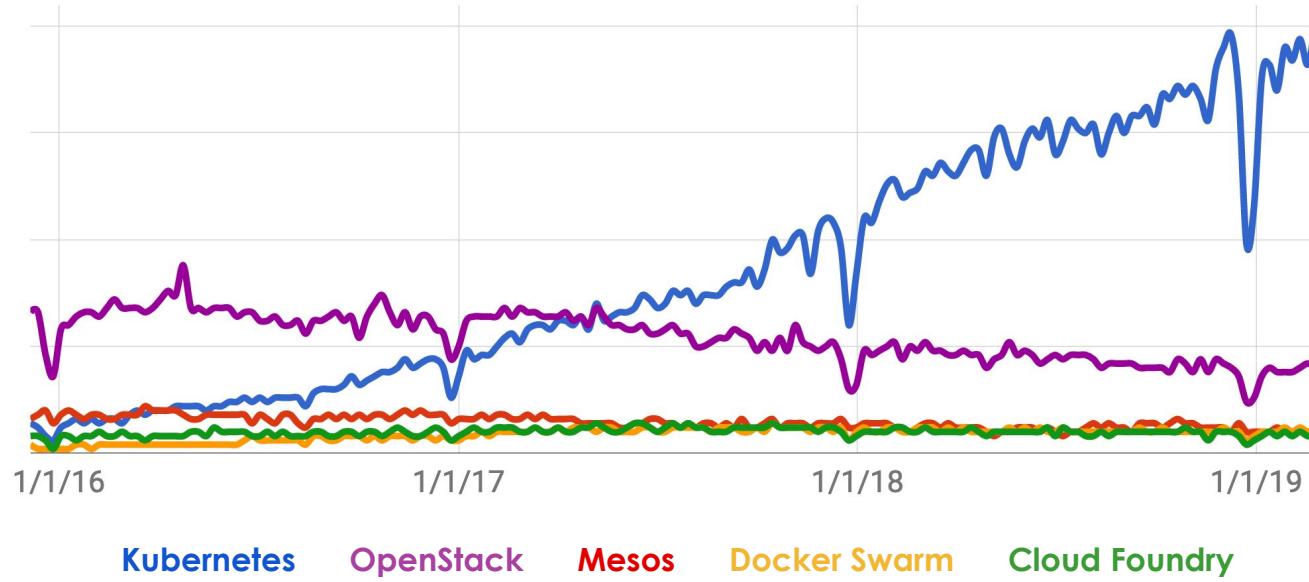
# Case study: Kubernetes community and CNCF



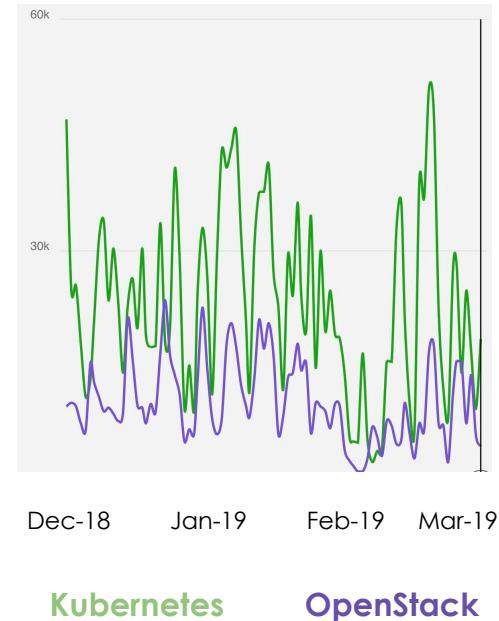
CLOUD NATIVE  
COMPUTING FOUNDATION

# Kubernetes in Search Trends

Google Trends



WeChat



# Github + Slack

77,370 commits

2,104 contributors

#kubernetes-users

☆ | ⚡ 61,804 | ⚡ 6 | Ne

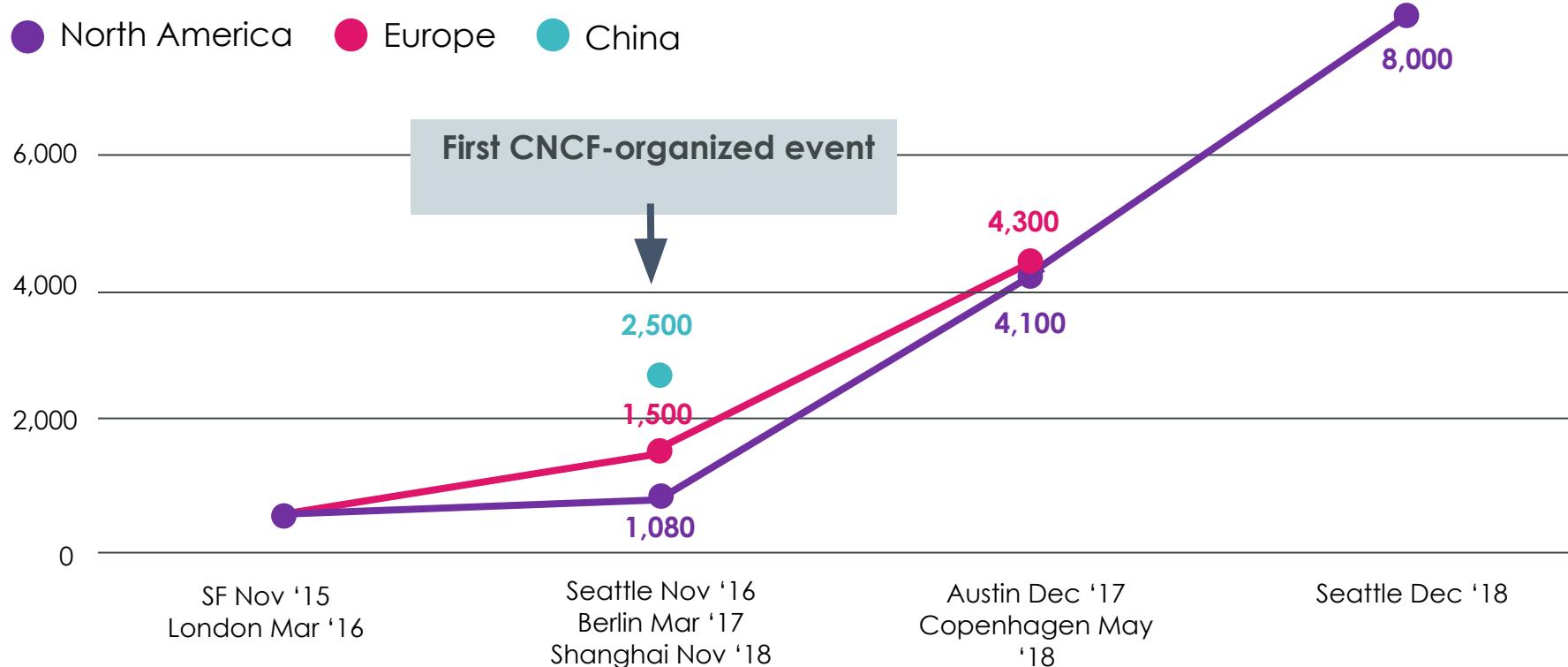
Author	Projects	Labels	Milestones	Reviews	Assignee	Sort
Andrew Sykim	area/cloudprovider area/kubelet	cncf-cla: yes kind/feature priority/important-longterm release-note sig/node size/L	#75229	2 hours ago	andrewsykim	5
Haian Meng	area/kubelet	cncf-cla: yes kind/feature needs-priority ok-to-test release-note none sig/node size/L	#75228	2 hours ago	haiyameng	7
Tal Clair	area/api-machinery	cncf-cla: yes kind/feature kind/flake priority/important-soon release-note sig/auth sig/testing size/XL	#75226	2 hours ago	tallclair	3
Jing Xu	area/kubelet	approved cncf-cla: yes kind/bug lgmt release-note-none sig/storage sig/windows size/XS	#75225	2 hours ago	jingxu97	1 v1.14
Neolit123	area/kubeadm	approved cncf-cla: yes do-not-merge/hold kind/bug lgmt priority/critical-urgent release-note-none sig/cluster-lifecycle size/S	#75224	2 hours ago	neolit123	3
Sjennings	area/kubelet	cncf-cla: yes lgmt needs-kind needs-priority release-note sig/apps sig/node size/M	#75223	3 hours ago	sjennings	2
Ostromart	area/kubelet	cncf-cla: yes do-not-merge/cherry-pick-not-approved kind/cleanup needs-priority ok-to-test release-note-none sig/cluster-lifecycle size/XXL	#75221	3 hours ago	ostromart	7
Izang	area/network	cncf-cla: yes do-not-merge/cherry-pick-not-approved do-not-merge/release-note-label-needed needs-kind needs-ok-to-test needs-priority sig/testing size/XS	#75219	4 hours ago	izang	4



# Meetups in 48 countries, 106k members



# KubeCon + CloudNativeCon Attendance



# The mission of the CNCF is to foster and sustain open source projects around cloud native



**kubernetes**



Prometheus



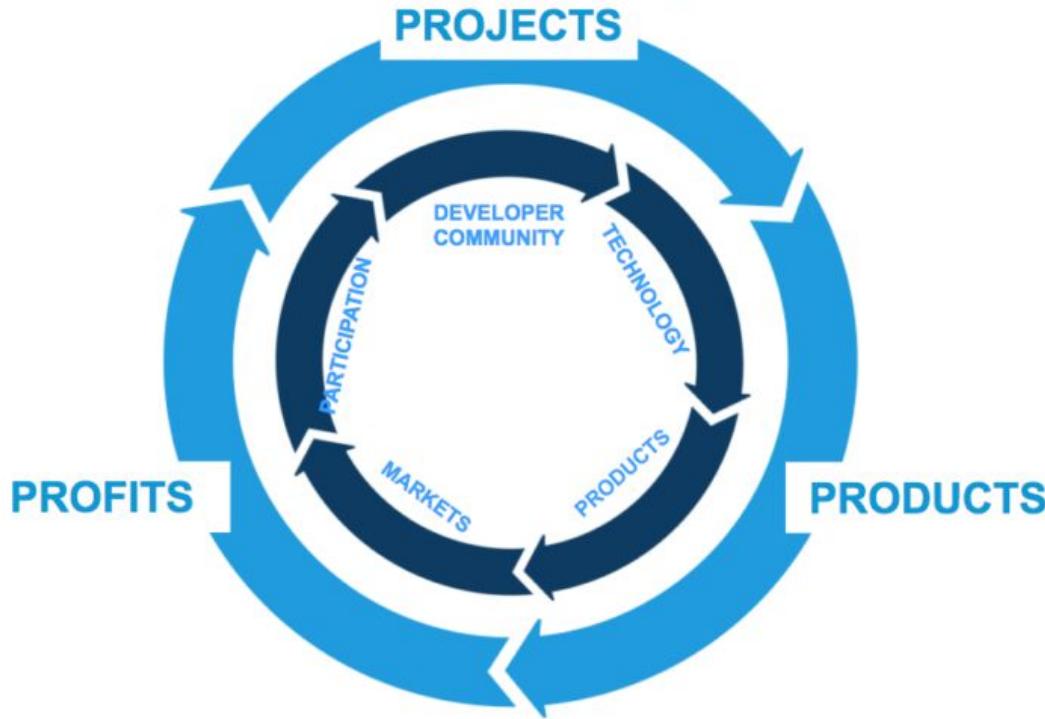
**envoy**



CoreDNS



# Non-profit, founded Dec 2015



# 375+ Members

## Platinum Members

Alibaba Cloud



DELL Technologies



Microsoft Azure

ORACLE

Pivotal



vmware

## Gold Members



Baidu 百度



inspur 浪潮



## End User Members



# 375+ Members (Silver 1)



# 375+ Members (Silver 2)



# In practice

- Community
- Documentation
- Translation
- Security audits
- Certification
- Legal
- Marketing & PR
- Events



# 8 staff

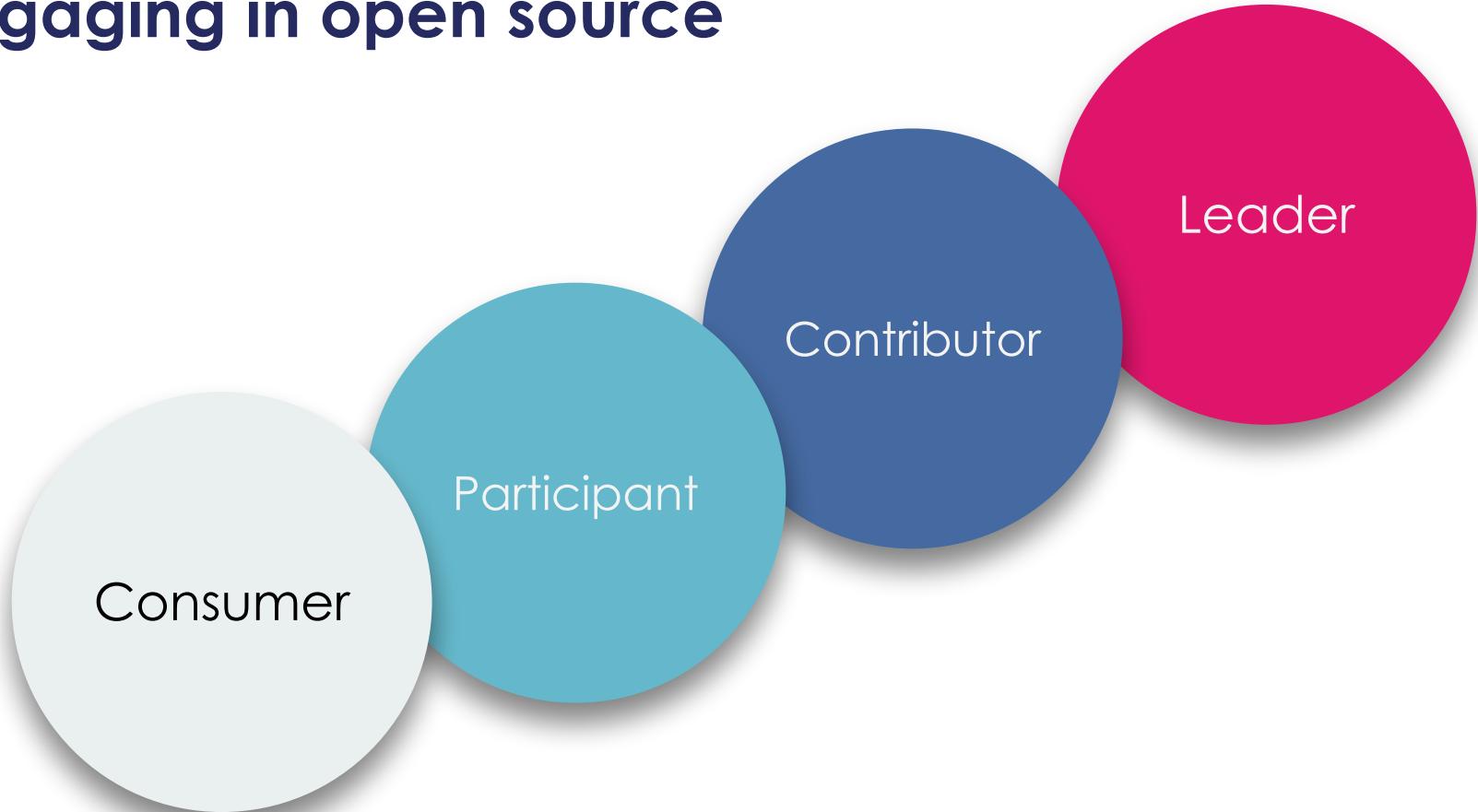


# How can you get involved?



CLOUD NATIVE  
COMPUTING FOUNDATION

# Engaging in open source





Consumer

- Evaluate and use open source tools
- File bug reports
- Attend events





- Speak at meetups
- Run events
- Answer others' questions
- Moderate discussions
- Curate





Write and translate  
documentation

Improve user experience and  
design

Code and review code

Improve tooling and testing





Leader

Organize issues

Mentor others

Governance

Formalize open source at your  
company



# Pitfalls

- A lot of unspoken rules in open source and on Github
- High barrier to entry and inertia in large projects
- Very few independent maintainers (70% are employed)



# 1. Find an open source friendly employer



## 2. Find what you're good in, and specialize



### 3. Find a sponsor



# Summary

The impact of open source is both personal and universal.

Understand how you want to engage.

Find sponsors to help you with the unspoken rules.



# Resources

[opensourcesurvey.org/2017](https://opensourcesurvey.org/2017)

[opensource.guide](https://opensource.guide), [todogroup.org](https://todogroup.org),  
[chaoss.community](https://chaoss.community)

[github.com/cncf/contribute](https://github.com/cncf/contribute), [cncf.io/about/join](https://cncf.io/about/join)



# Thanks!

Slides at [oicheryl.com](http://oicheryl.com)



CLOUD NATIVE  
COMPUTING FOUNDATION