# Navigating open source

Cheryl Hung, Director of Ecosystem, CNCF 2019/4/20, TECH(K)NOW Day, Taipei



## Agenda

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



# **Cheryl Hung (@oicheryl)**

Ex-Google software engineer, now I speak on Kubernetes, cloud native and open source.

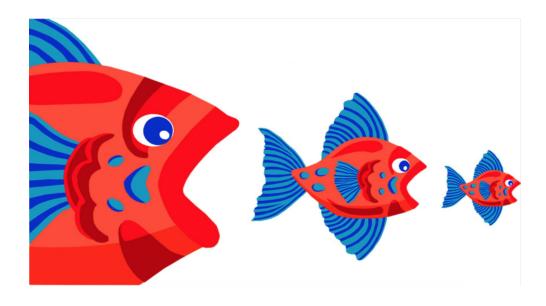
Founder of Cloud Native London.



# The numbers on open source



### 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 US (23%) and open source globally (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"

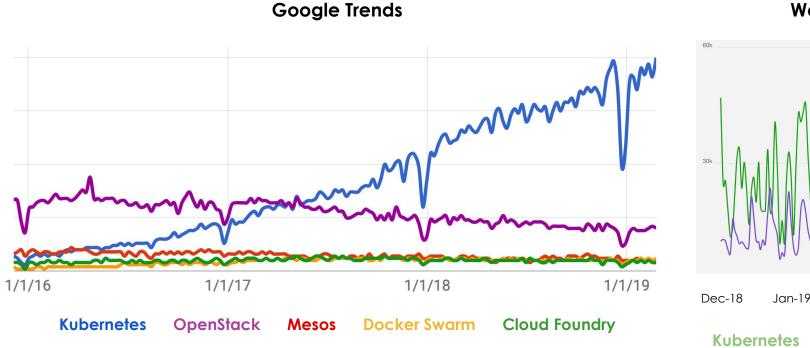




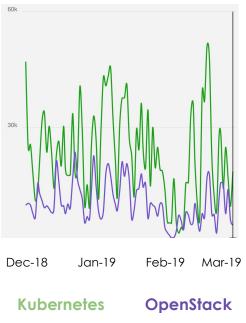
# Case study: Kubernetes community and CNCF



#### **Kubernetes in Search Trends**



#### WeChat





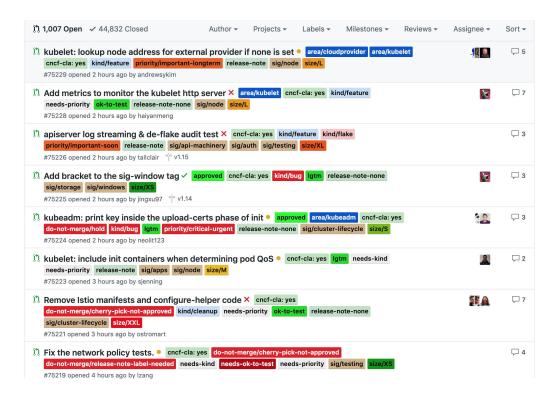
#### Github + Slack

77,370 commits

2,104 contributors

#kubernetes-users

☆ | & 61,804 | & 6 | Nex



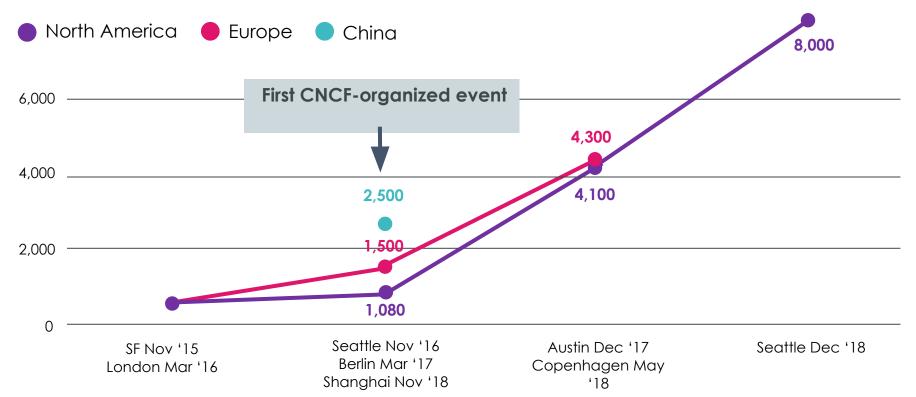


### Meetups in 48 countries, 106k members





#### KubeCon + CloudNativeCon Attendance





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







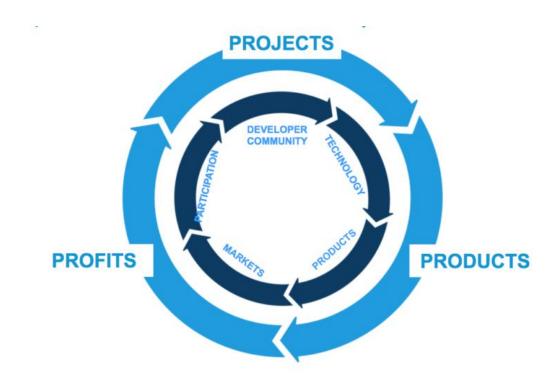








# Non-profit, part of Linux Foundation, founded December 2015



#### 375+ Members

#### **Platinum Members**





















































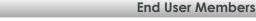






































**End User Supporters** 











Academic/Nonprofit











































































### 375+ Members (Silver 1)









































Arctiq ARISTA Garmory Arrikto

















































































































































































































































## 375+ Members (Silver 2)







# In practice

- Community
- Documentation
- Translation
- Security audits

Certification

- Legal
- Marketing & PR
- Events



# 8 staff













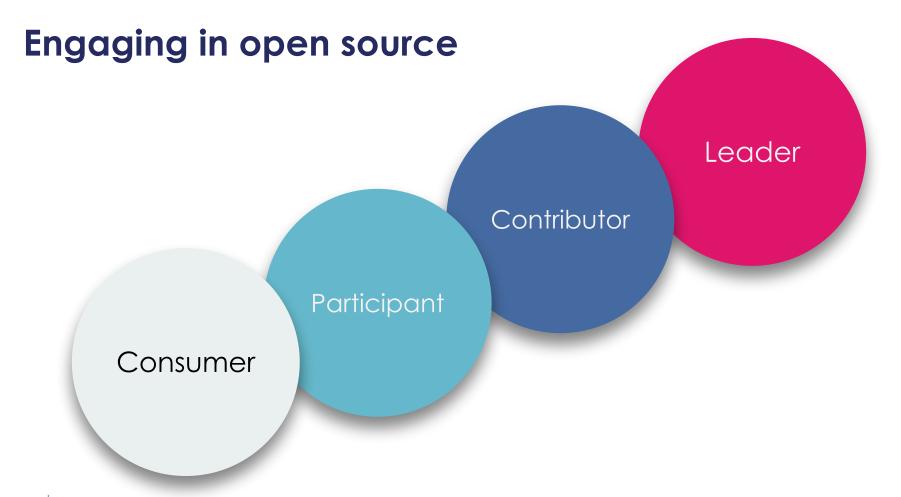






# How can you get involved?









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



Organize issues

Mentor others

Governance

Formalize open source at your company

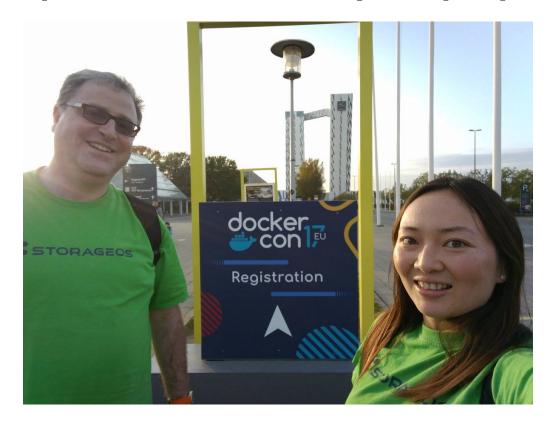


### Challenges

- Many unspoken rules in open source
- High barrier to entry in large projects
- Very few independent maintainers (70% are employed)



### 1. Find an open source friendly employer





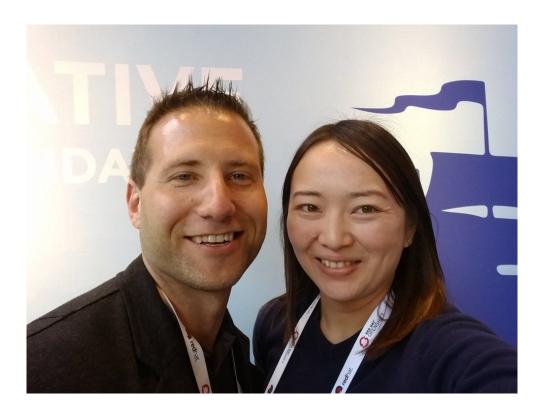
# 2. Find what you're good at, and specialize







# 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

<u>opensource.guide</u>, <u>todogroup.org</u>, <u>chaoss.community</u>

github.com/cncf/contribute, cncf.io/about/join



# Thanks! Slides at oicheryl.com

