

Navigating the cloud native ecosystem

Cheryl Hung, Director of Ecosystem, CNCF
GDG Cloud London, 29 Apr 2019

Agenda

1. Kubernetes community and the CNCF
2. The numbers on open source
3. How you can get involved



Cheryl Hung (@oicheryl)

I **advocate** for and **build** **communities** around Kubernetes, cloud native and open source.

Previously Google eng



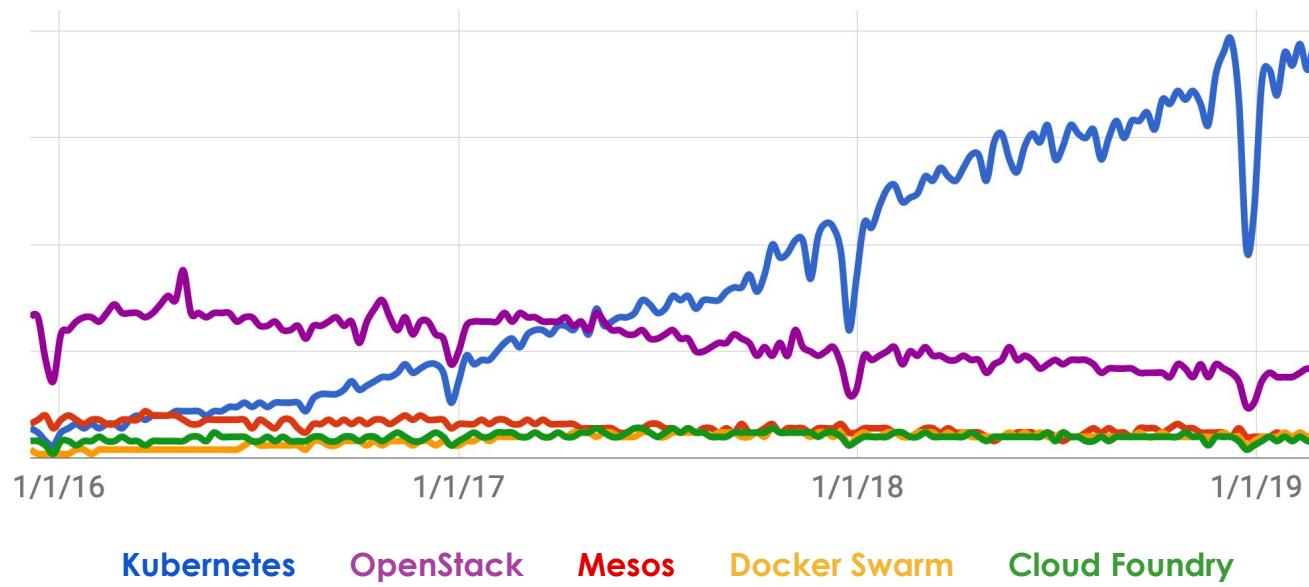
Kubernetes community and the CNCF



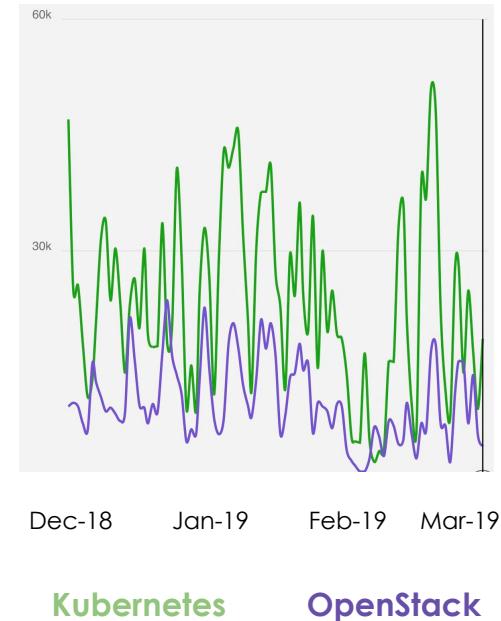
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Kubernetes in Search Trends

Google Trends



WeChat



Github + Slack

77,370 commits

2,104 contributors

#kubernetes-users

☆ | ⚡ 61,804 | ⚡ 6 | Ne

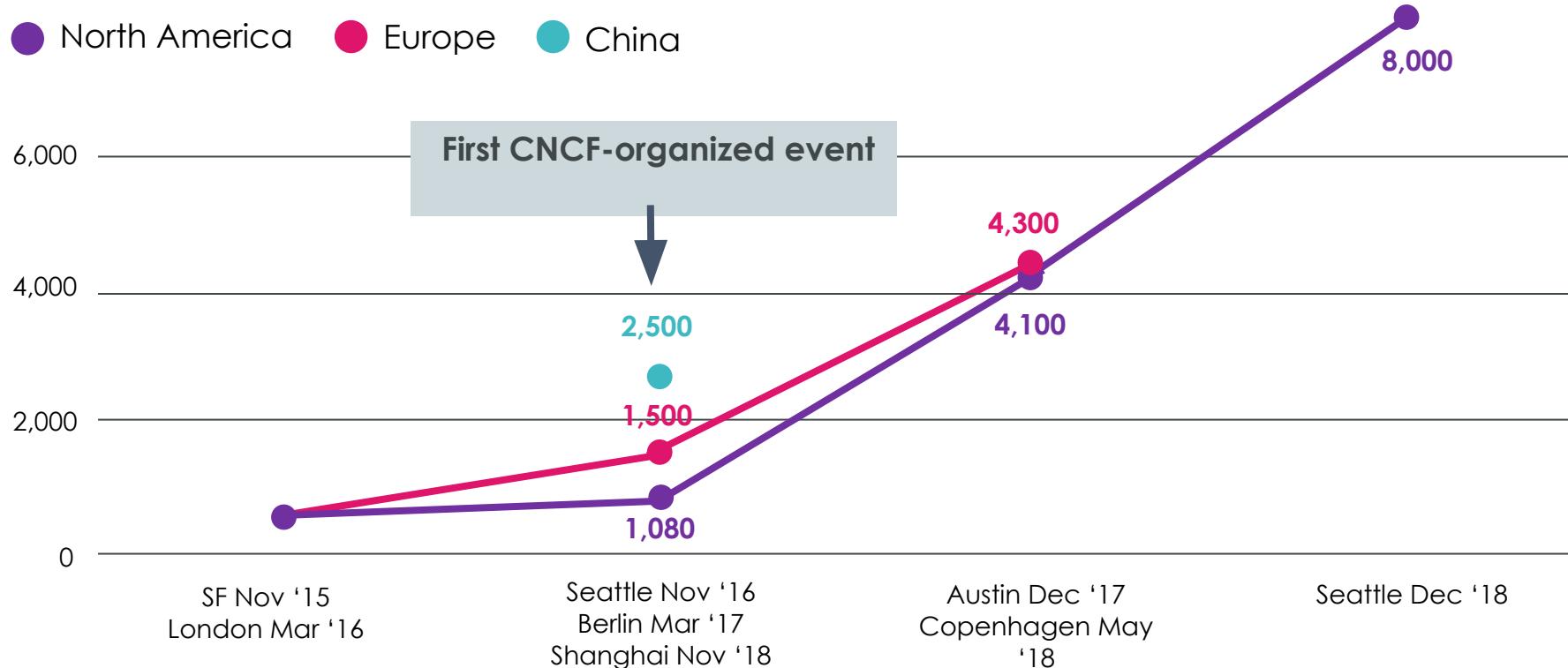
1,007 Open ✓ 44,832 Closed	Author ▾	Projects ▾	Labels ▾	Milestones ▾	Reviews ▾	Assignee ▾	Sort ▾
<p>kubelet: lookup node address for external provider if none is set ● area/cloudprovider area/kubelet cnf-cla: yes kind/feature priority/important-longterm release-note sig/node size/L #75229 opened 2 hours ago by andrewsykim</p> <p>Add metrics to monitor the kubelet http server ✗ area/kubelet cnf-cla: yes kind/feature needs-priority ok-to-test release-note-none sig/node size/L #75228 opened 2 hours ago by haiyanmeng</p> <p>apiserver log streaming & de-flake audit test ✗ cnf-cla: yes kind/feature kind/flake priority/important-soon release-note sig/api-machinery sig/auth sig/testing size/XL #75226 opened 2 hours ago by tallclair v1.15</p> <p>Add bracket to the sig-window tag ✓ approved cnf-cla: yes kind/bug lgmt release-note-none sig/storage sig/windows size/XS #75225 opened 2 hours ago by jingxu97 v1.14</p> <p>kubeadm: print key inside the upload-certs phase of init ● approved area/kubeadm cnf-cla: yes do-not-merge/hold kind/bug lgmt priority/critical-urgent release-note-none sig/cluster-lifecycle size/S #75224 opened 2 hours ago by neolit123</p> <p>kubelet: include init containers when determining pod QoS ● cnf-cla: yes lgmt needs-kind needs-priority release-note sig/apps sig/node size/M #75223 opened 3 hours ago by sjenning</p> <p>Remove Istio manifests and configure-helper code ✗ cnf-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 opened 3 hours ago by ostromart</p> <p>Fix the network policy tests. ● cnf-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 opened 4 hours ago by lzang</p>							



Meetups in 48 countries, 108k members



KubeCon + CloudNativeCon Attendance



CNCF Mission: foster and sustain open source projects around cloud native



kubernetes



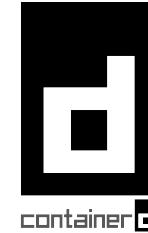
Prometheus



envoy



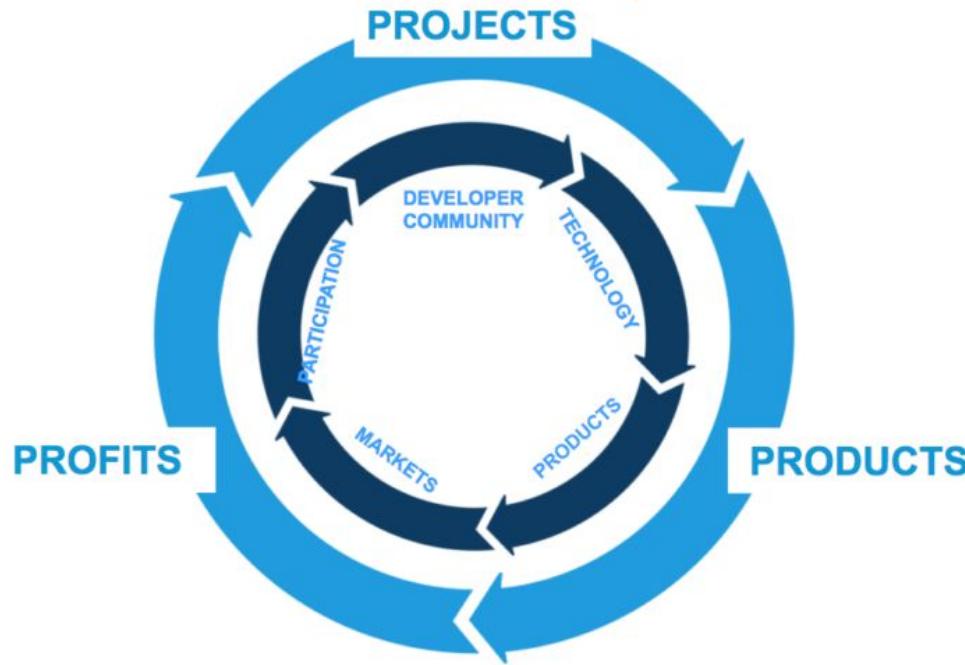
CoreDNS



fluentd



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



375+ Members

Platinum Members

Alibaba Cloud



DELL Technologies



Microsoft Azure

ORACLE

Pivotal

redhat.



vmware

Gold Members



Baidu 百度

CapitalOne



HORTONWORKS

inspur 浪潮



Kingsoft Cloud
Orchestrating a brighter world



NetApp



End User Members



Bloomberg



DENSO

adidas amadeus



globo.com

Goldman Sachs

indeed® intuit.



Mattermost



la Mobilière



The New York Times

PostFinance



SAP Concur



Morgan Stanley

MUFG

NAIC
National Association of Insurance Commissioners

ncSOFT

@Pinterest



shopify showmax

SIMPLENEXUS Spredfast

StateFarm®



testfire labs

textkernel

THREDUP

NAIC
National Association of Insurance Commissioners

NIPR
National Insurance Policy Registry

OpenCloud Foundation

Spotify



TRADESHIFF



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UNIVERSITY OF MICHIGAN

WIKIMEDIA FOUNDATION

YAHOO! JAPAN

ticketmaster®

TWO SIGMA

Werkspot

wework

woorank

workday

WPengine

zalando

SEL
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Delft University

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WIKIMEDIA FOUNDATION



375+ Members (Silver 1)



375+ Members (Silver 2)



In practice

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



Eight staff



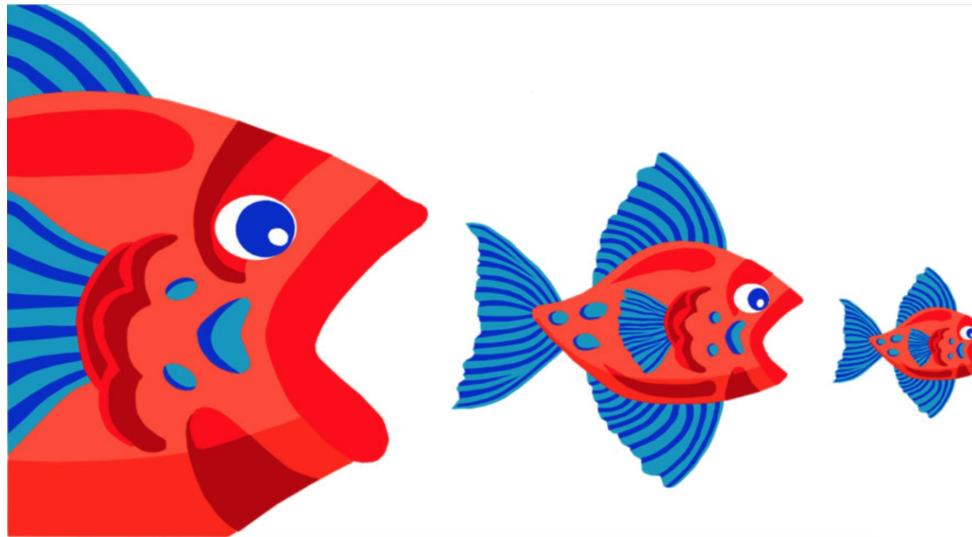
The numbers on open source



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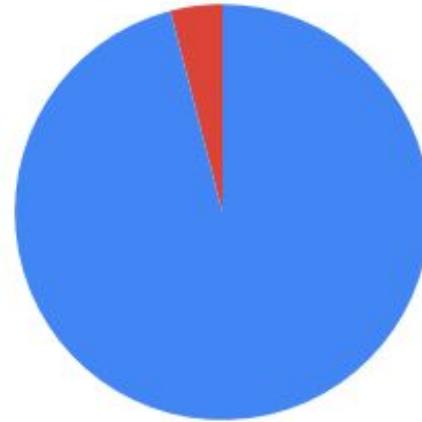
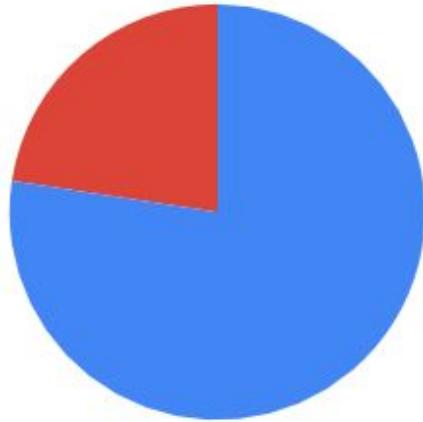
Open source is eating the world

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



But open source is (even) less representative 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

35%

less likely to ask for help in a public forum



Impact is both personal and universal

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

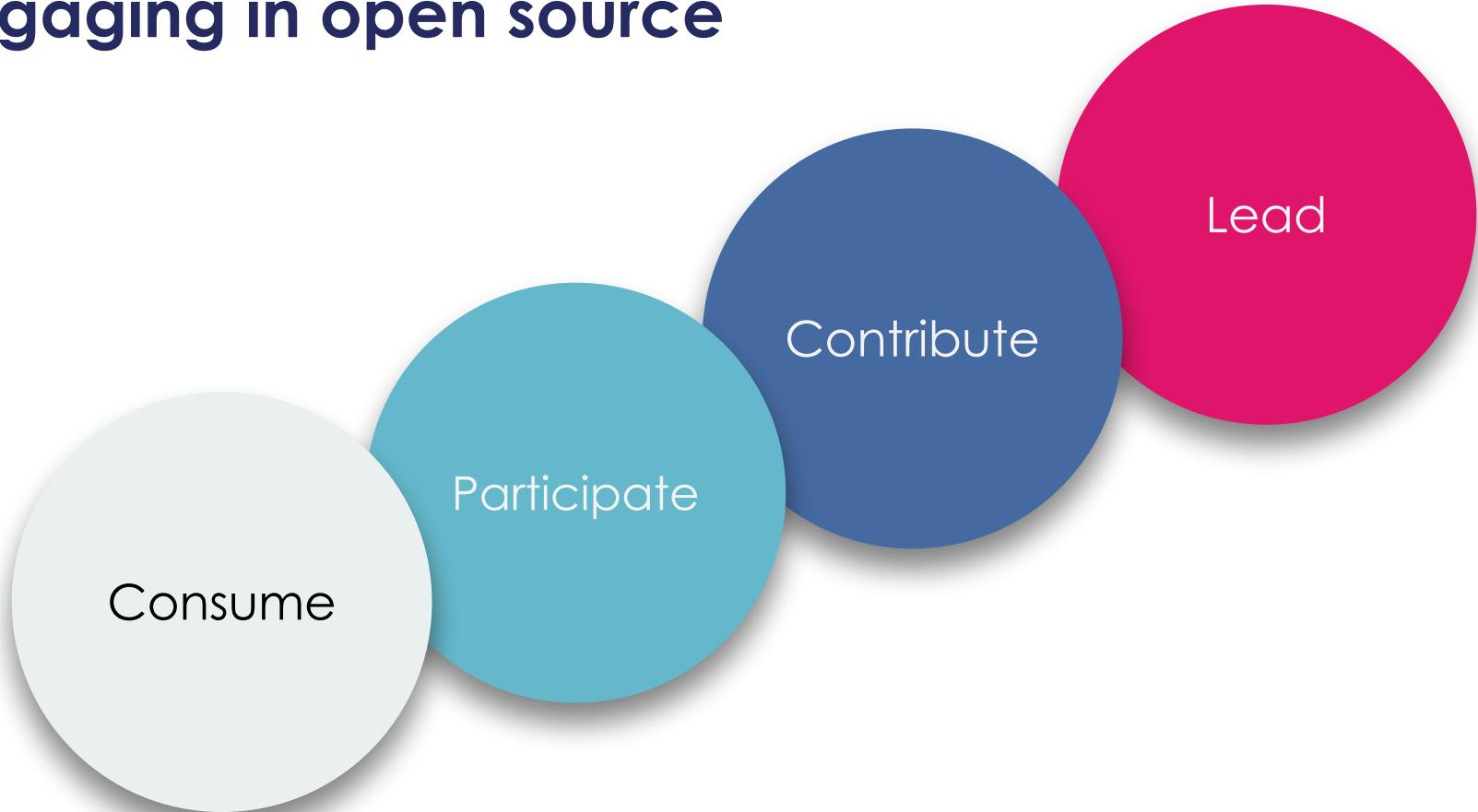


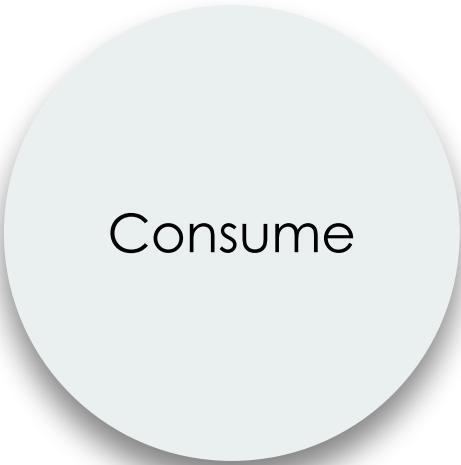
How you can get involved



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Engaging in open source





Consume

Evaluate and use open source
tools

Attend events

File bug reports

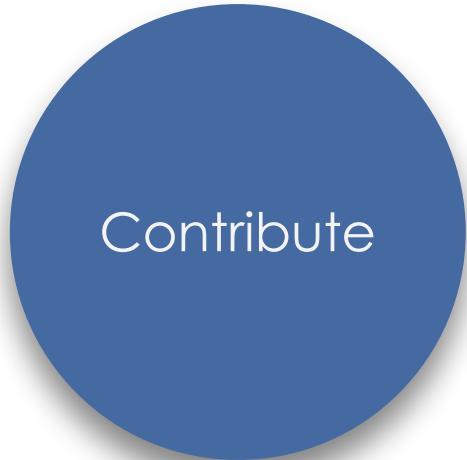




Participate

- Speak at meetups
- Run events
- Answer questions online
- Curate information





Write and translate docs
Improve user experience and design
Code and review code
Improve tooling and testing





Organize issues
Mentor others
Governance
Moderate discussions
Formalize open source at your
company



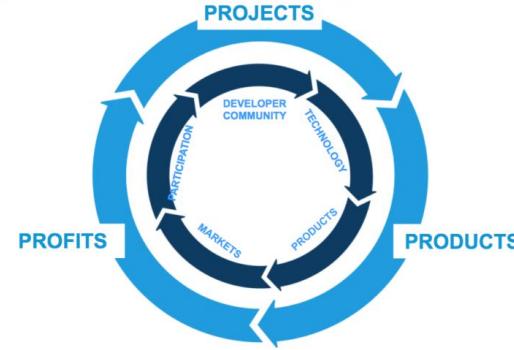
Challenges

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



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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.

Find what you're good at, and specialize.

Find sponsors to help you navigate.



Resources

opensourcesurvey.org/2017

opensource.guide, todogroup.org,
chaoss.community

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



First Wednesday of
every month



Wednesday 1 May:
Microsoft, Finimize,
ForgeRock



Thanks!

Slides at oicheryl.com



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