

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)

Previously eng at Google,
DevRel, PM, manager.

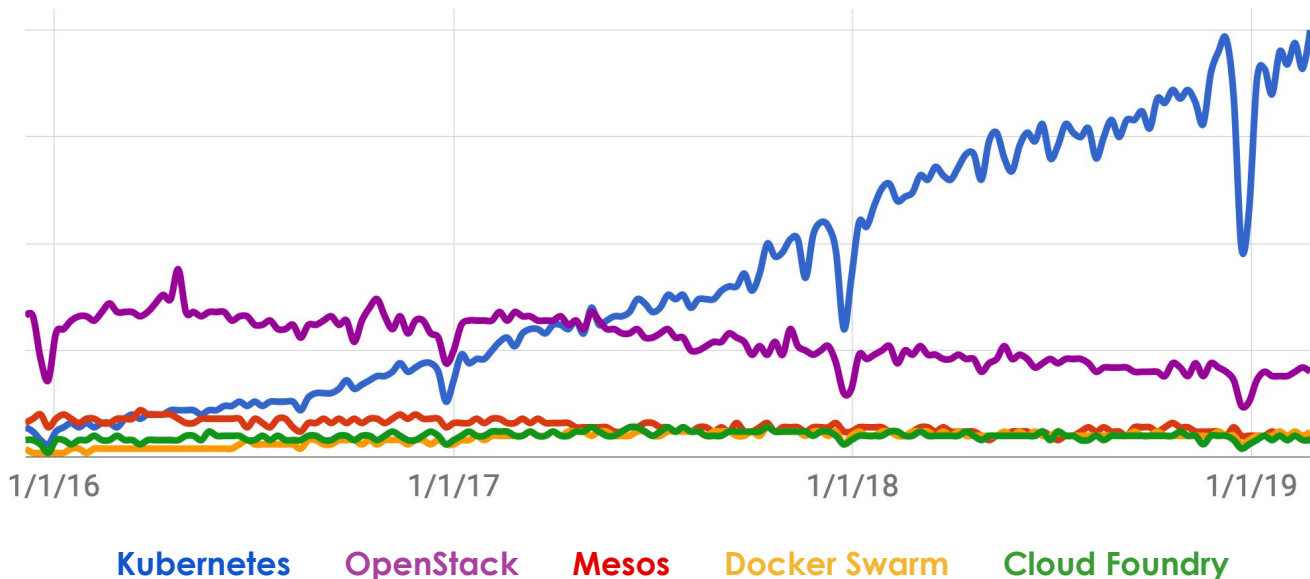
I **advocate** for and **build communities** around Kubernetes, cloud native and open source.



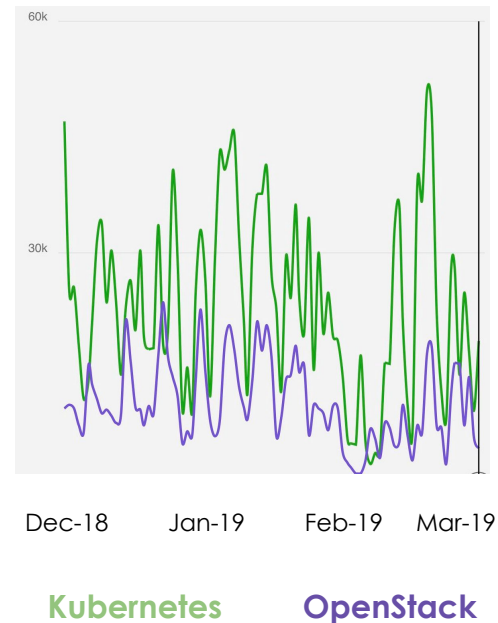
Kubernetes community and the CNCF

Kubernetes in Search Trends

Google Trends



WeChat








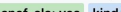
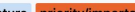

























































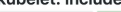


























Github + Slack

 77,370 commits

 2,104 contributors

#kubernetes-users

 |  61,804 |  6 | Ne

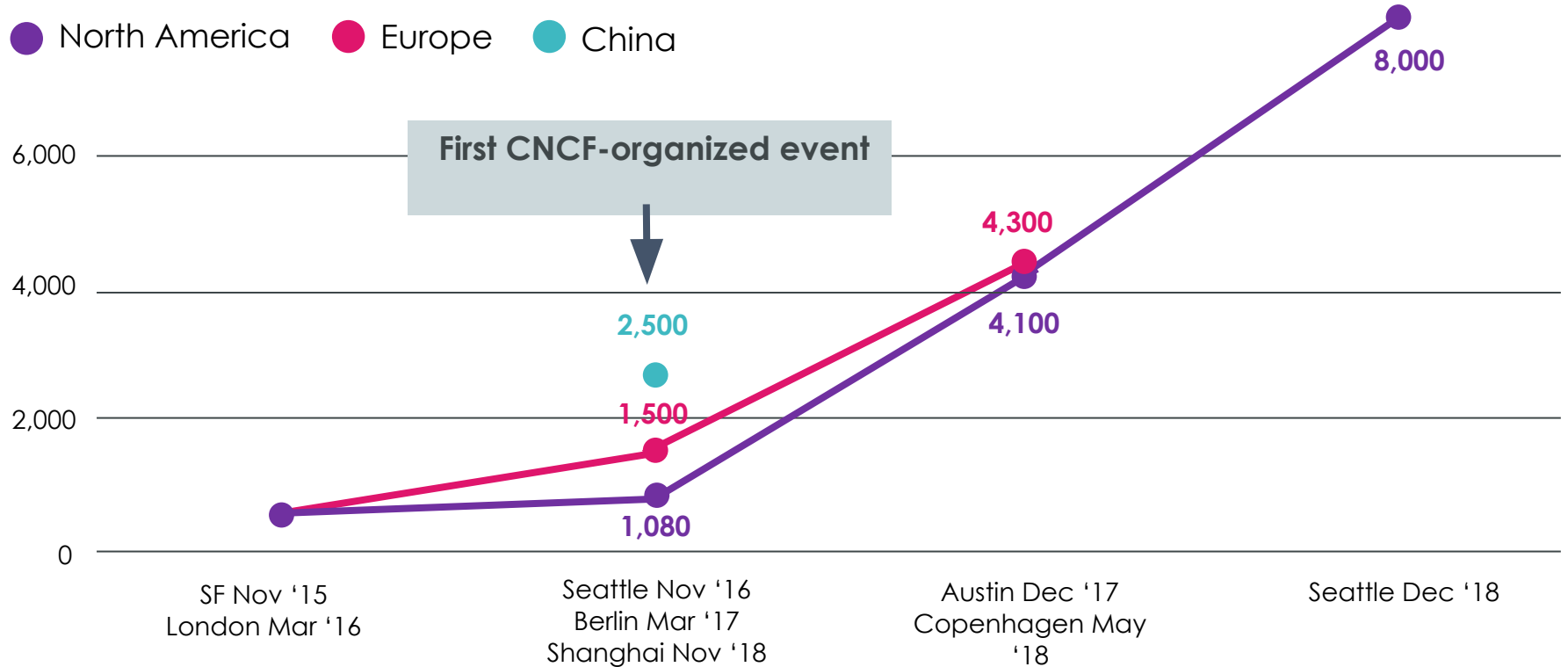
1,007 Open	44,832 Closed	Author	Projects	Labels	Milestones	Reviews	Assignee	Sort
 kubelet: lookup node address for external provider if none is set	 area/cloudprovider	 area/kubelet		 5				
 cncf-cla: yes	 kind/feature	 priority/important-longterm	 release-note	 sig/node	 size/L			
#75229 opened 2 hours ago by andrewsykim								
 Add metrics to monitor the kubelet http server	 area/kubelet	 cncf-cla: yes	 kind/feature		 7			
 needs-priority	 ok-to-test	 release-note-none	 sig/node	 size/L				
#75228 opened 2 hours ago by haiyanmeng								
 apiserver log streaming & de-flake audit test	 cncf-cla: yes	 kind/feature	 kind/flake		 3			
 priority/important-soon	 release-note	 sig/api-machinery	 sig/auth	 sig/testing	 size/XL			
#75226 opened 2 hours ago by tallclair v1.15								
 Add bracket to the sig-window tag	 approved	 cncf-cla: yes	 kind/bug	 lgtm	 release-note-none		 3	
 sig/storage	 sig/windows	 size/XS						
#75225 opened 2 hours ago by jingxu97 v1.14								
 kubeadm: print key inside the upload-certs phase of init	 approved	 area/kubeadm	 cncf-cla: yes		 3			
 do-not-merge/hold	 kind/bug	 lgtm	 priority/critical-urgent	 release-note-none	 sig/cluster-lifecycle	 size/S		
#75224 opened 2 hours ago by neollt123								
 kubelet: include init containers when determining pod QoS	 cncf-cla: yes	 lgtm	 needs-kind		 2			
 needs-priority	 release-note	 sig/apps	 sig/node	 size/M				
#75223 opened 3 hours ago by sjenning								
 Remove Istio manifests and configure-helper code	 cncf-cla: yes		 7					
 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								
 Fix the network policy tests.	 cncf-cla: yes	 do-not-merge/cherry-pick-not-approved		 4				
 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								



Meetups in 48 countries, 108k members



KubeCon + CloudNativeCon Attendance



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



kubernetes



Prometheus



envoy



CoreDNS



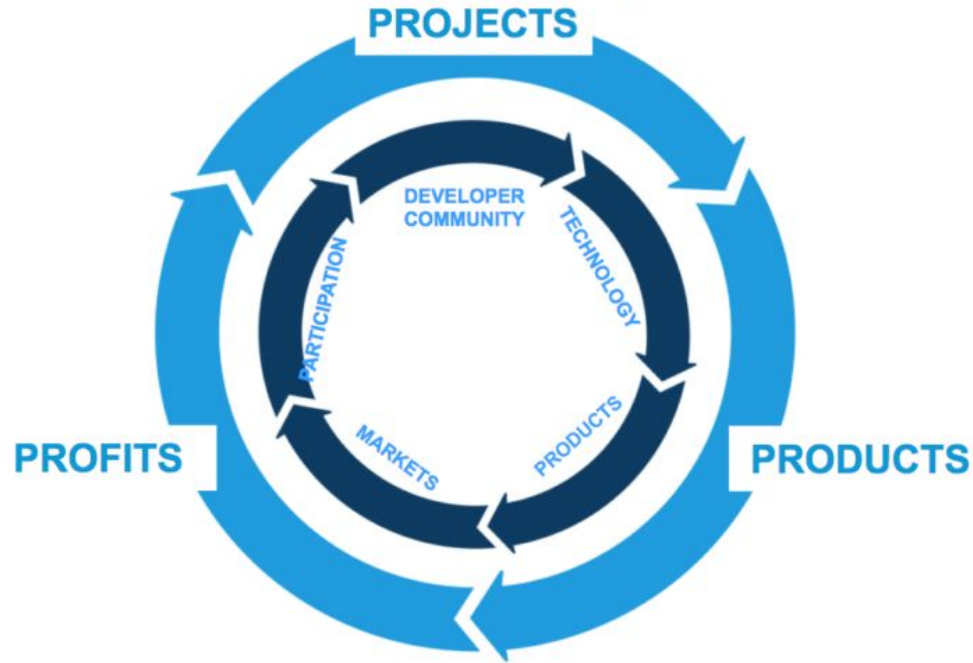
container



fluentd



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



375+ Members

Platinum Members



Gold Members



End User Members



End User Supporters



Academic/Nonprofit



375+ Members (Silver 1)



375+ Members (Silver 2)



In practice

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



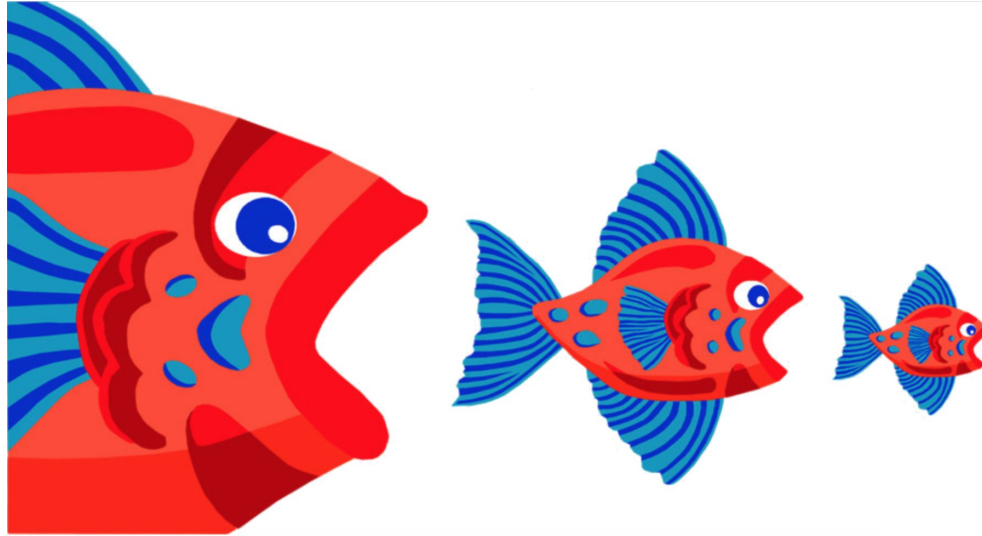
Eight staff



The numbers on open source

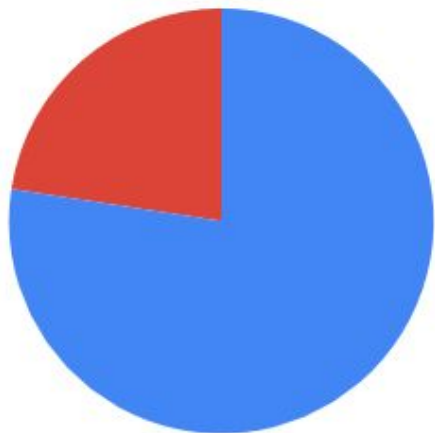
Open source is eating the world

78% of companies **use** and 63% **participate** in open source.

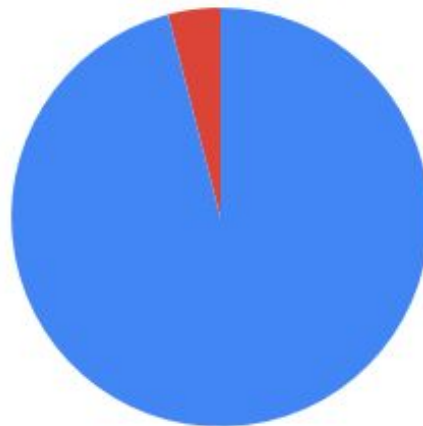


But open source is (even) less representative than tech overall

Professional - 23%



Open source - 4%



Developers:
Women
Men



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

2x

as likely to
have a
negative
encounter

50%

less likely to
ask for help
in a public
forum

50%

less likely to
receive
unsolicited
help



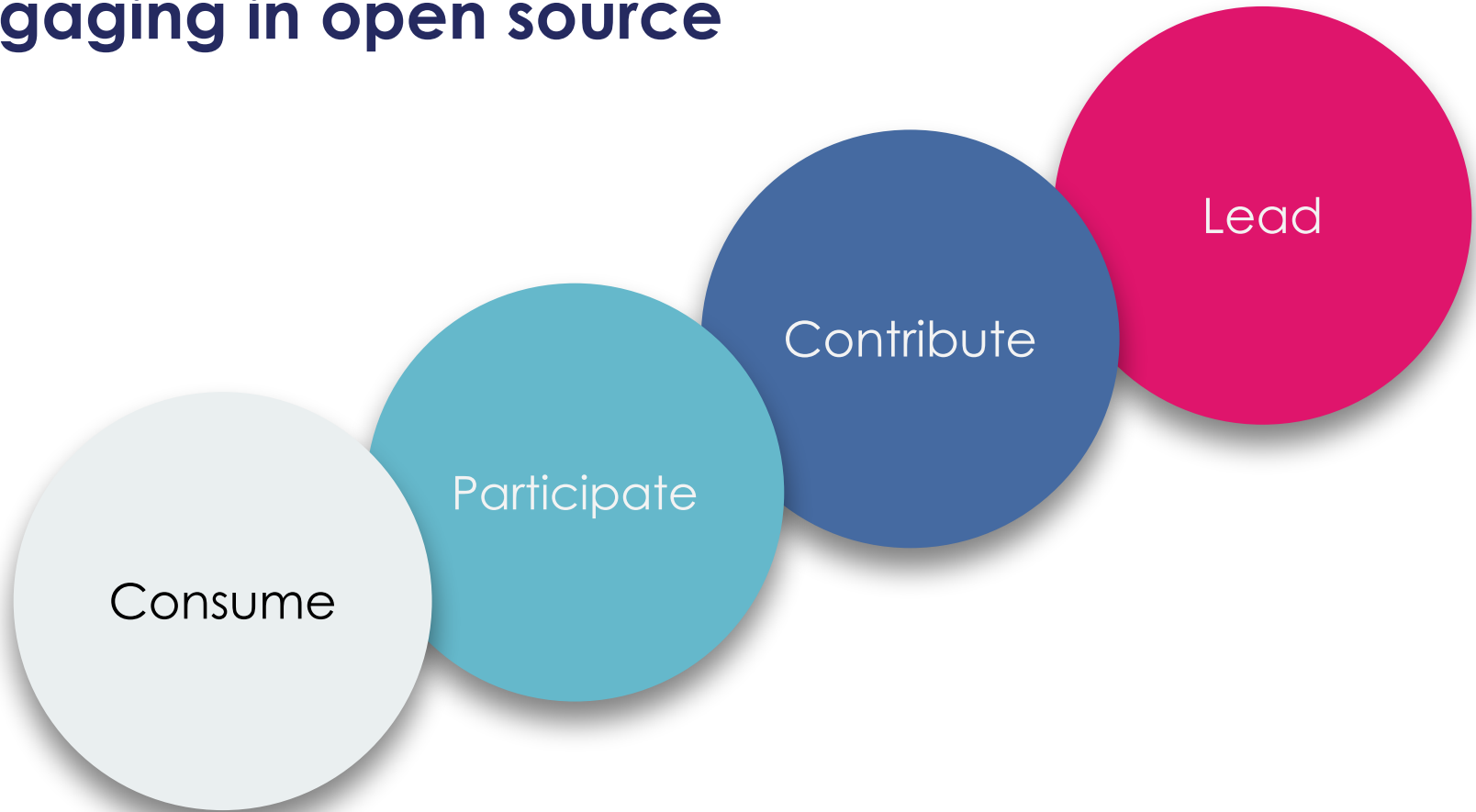
Impact is both personal and universal


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



How you can get involved

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





Contribute

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



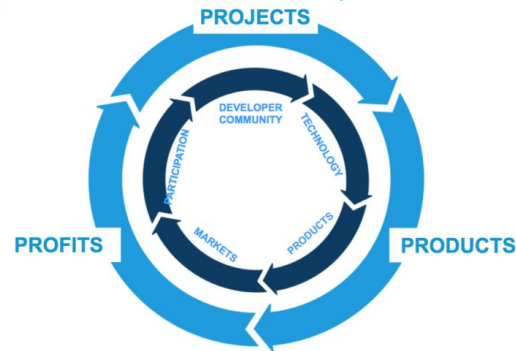
Challenges

- 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 with the unspoken rules.



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