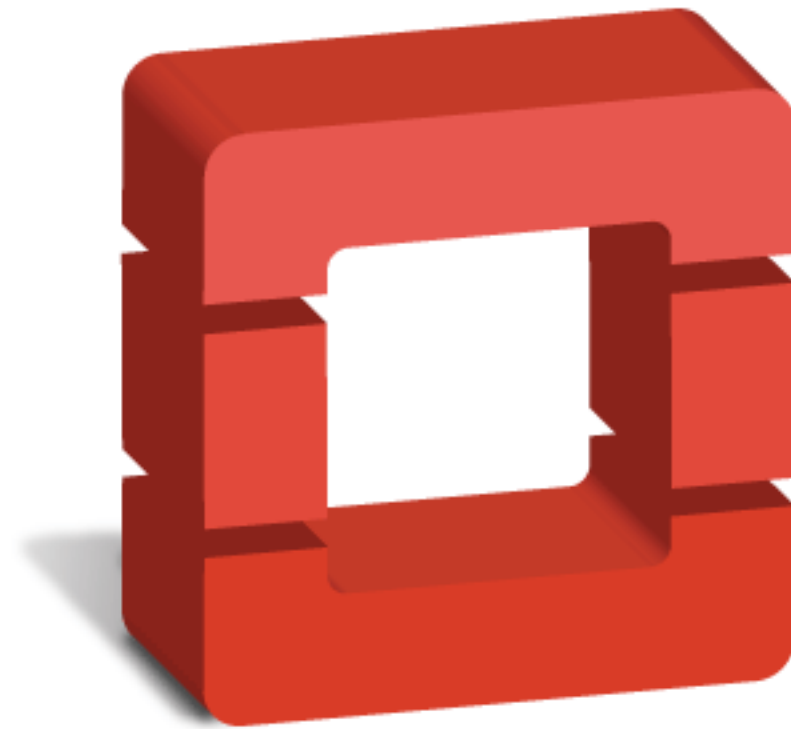
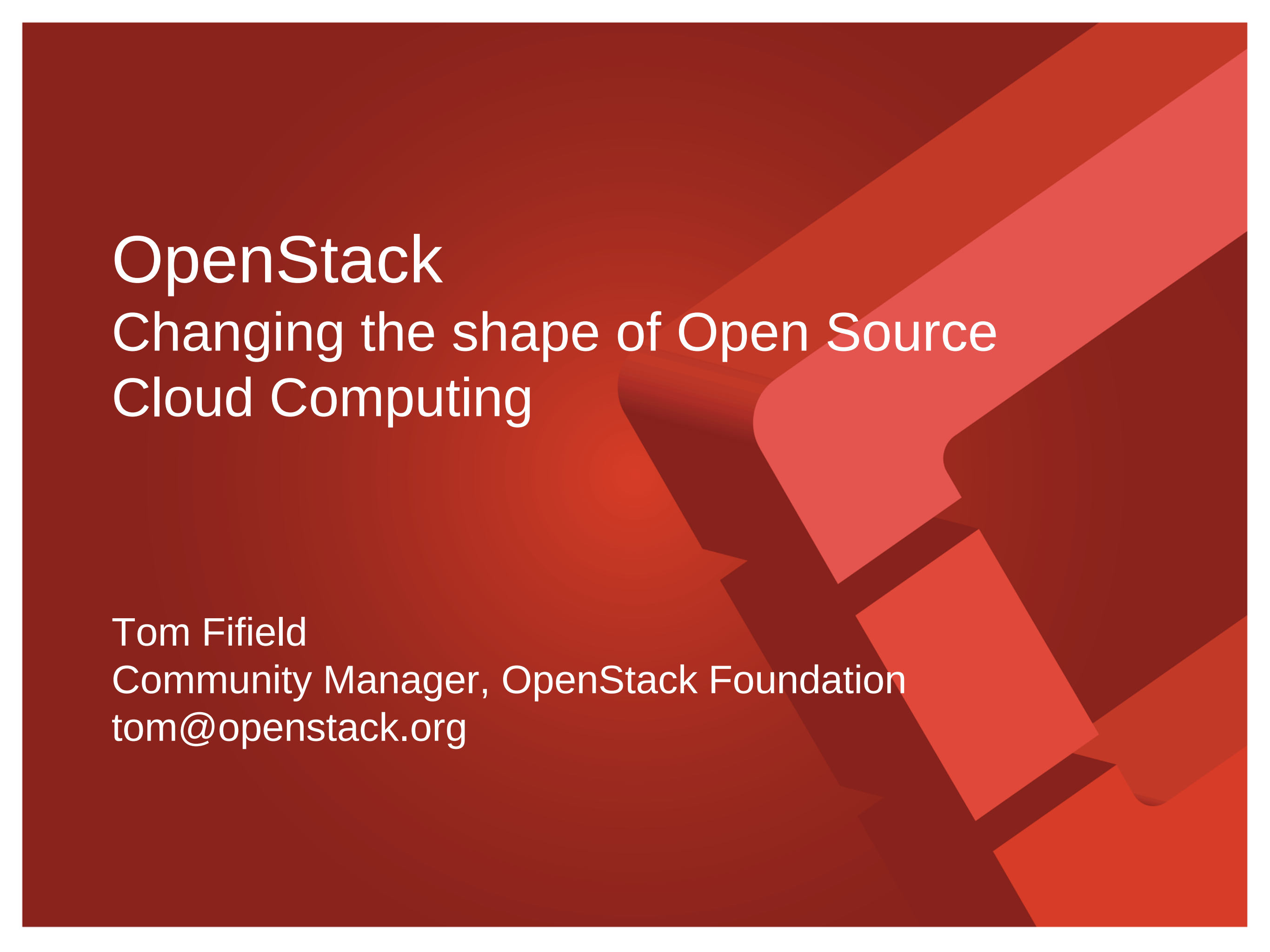




openstack®

CLOUD SOFTWARE



OpenStack

Changing the shape of Open Source Cloud Computing

Tom Fifield
Community Manager, OpenStack Foundation
tom@openstack.org

What is OpenStack?

More than...

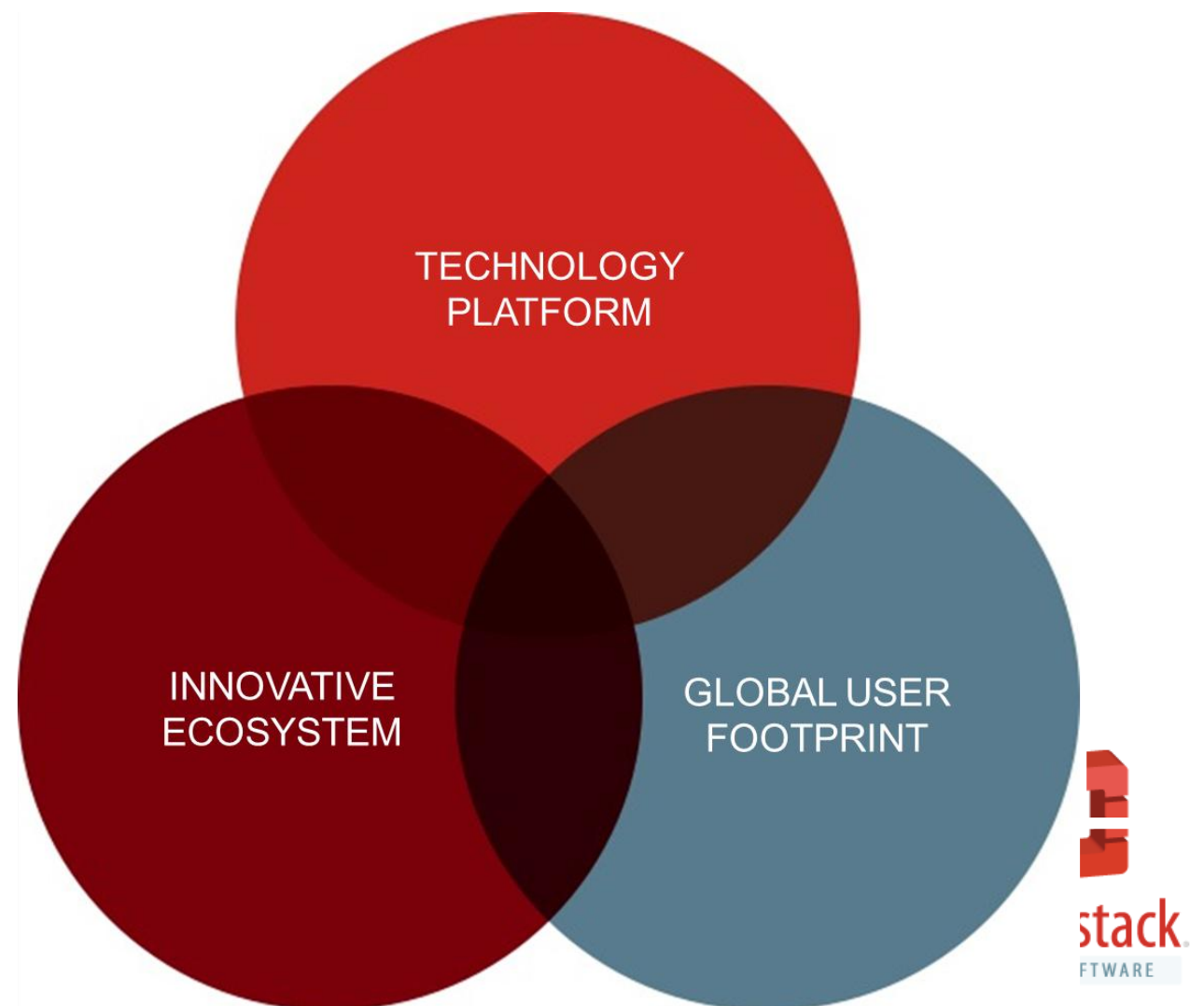
...cloud infrastructure software

...a global open source community

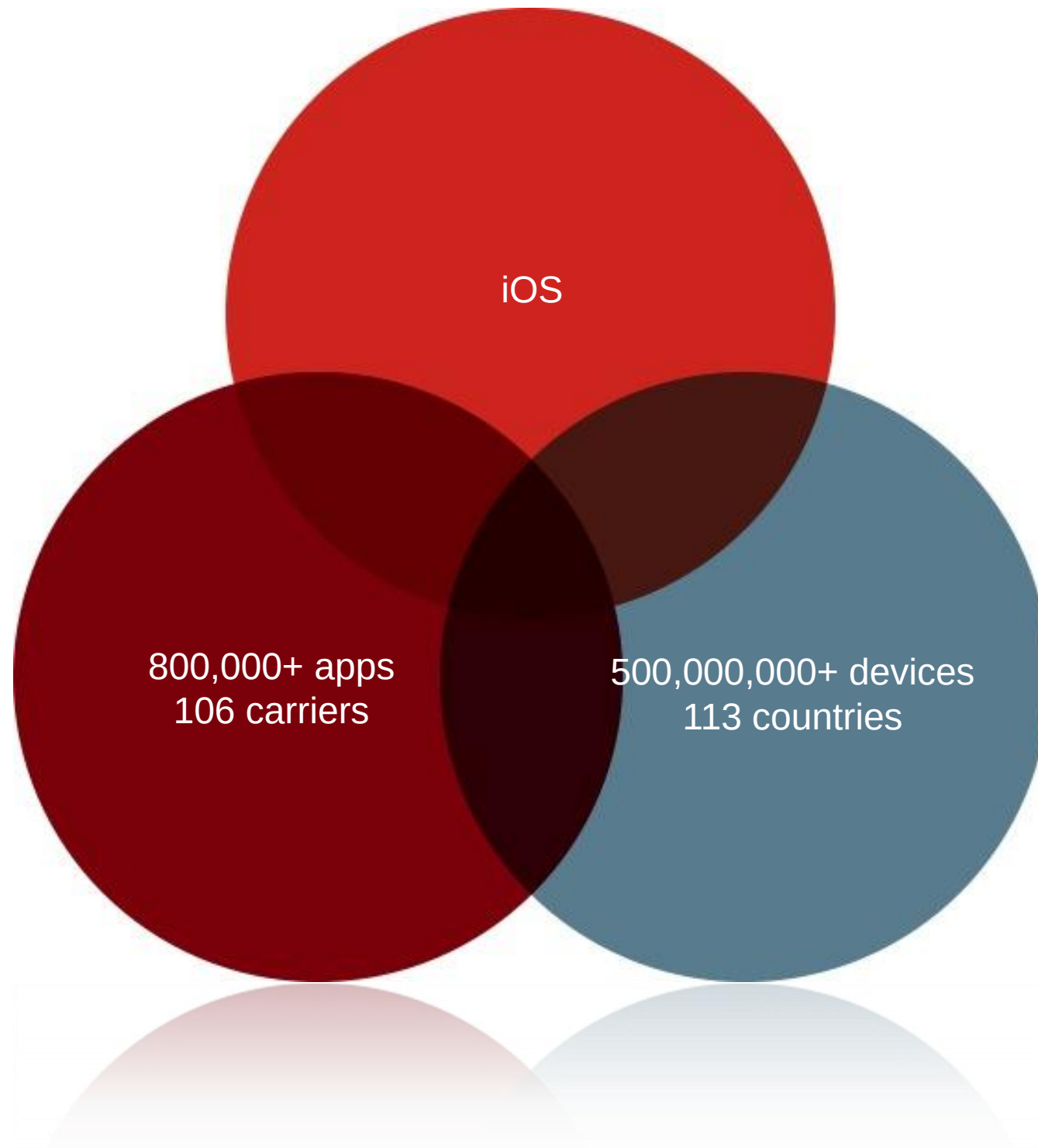
...a collaboration among technology vendors

Why are we succeeding?

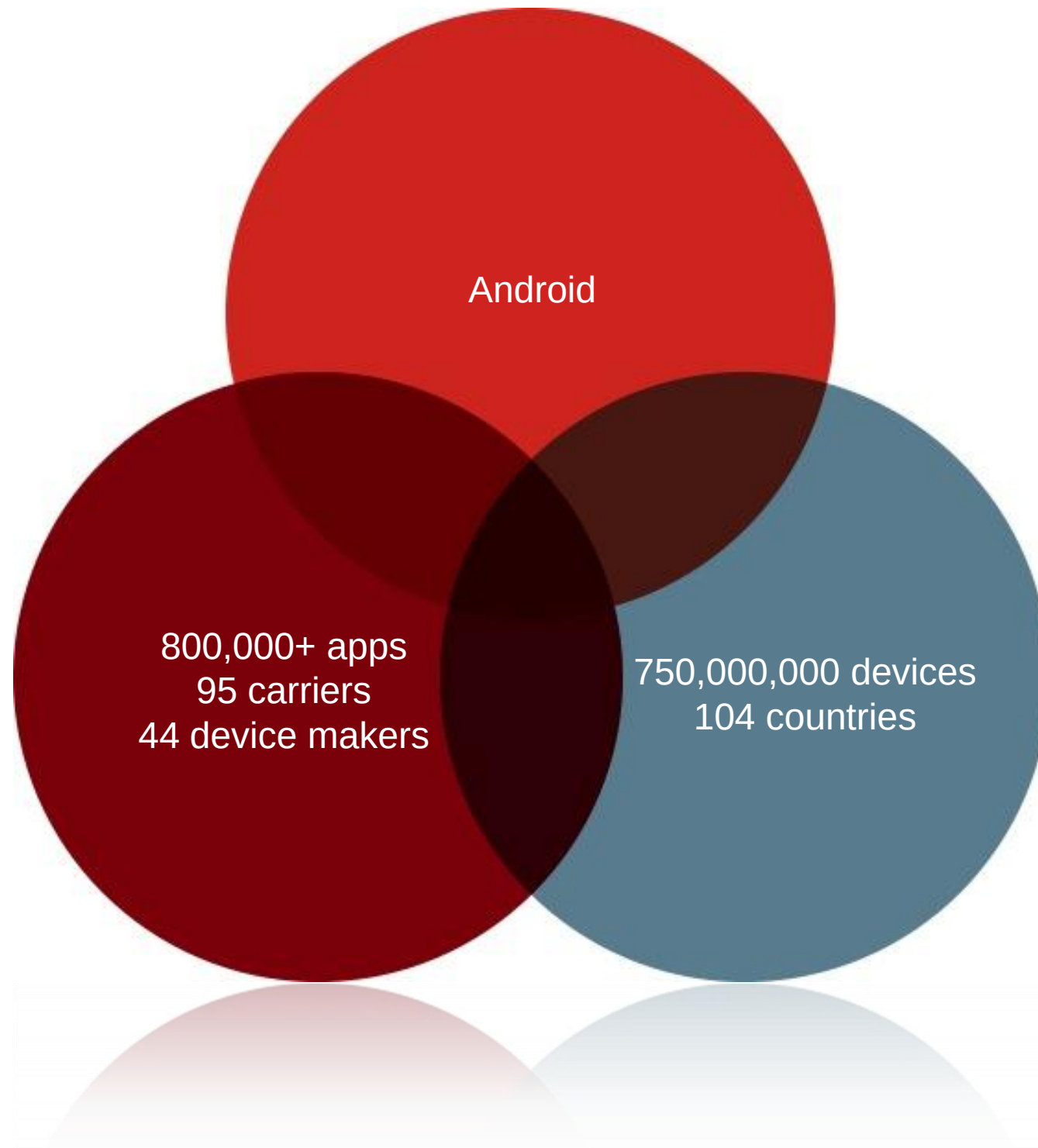
- ▶ Successful platforms have three forces:
 - ▶ Technology
 - ▶ Ecosystem
 - ▶ Users



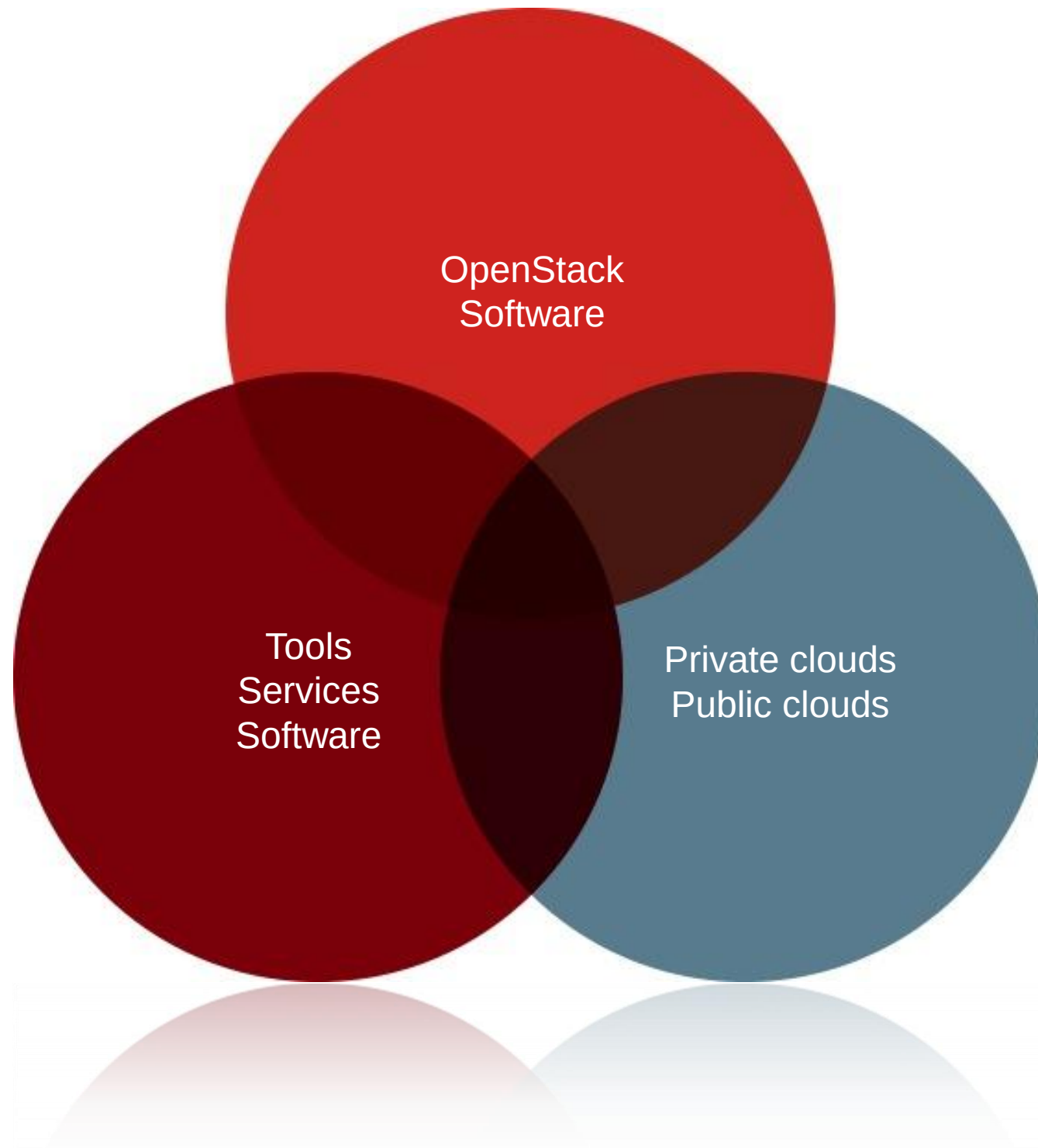
Apple

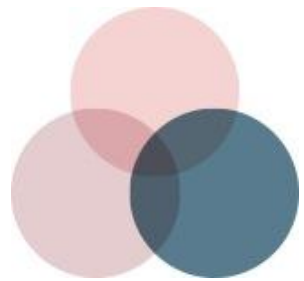


Android



OpenStack





Platform Ecosystems – Massive Markets

User Footprint

Apple iOS, Android

- › Every smartphone on earth
- › ~90% market share

Facebook

- › Every human on the internet
- › ~42% market share

Microsoft

- › Every PC manufactured
- › ~92% market share. Still.

OpenStack Opportunity

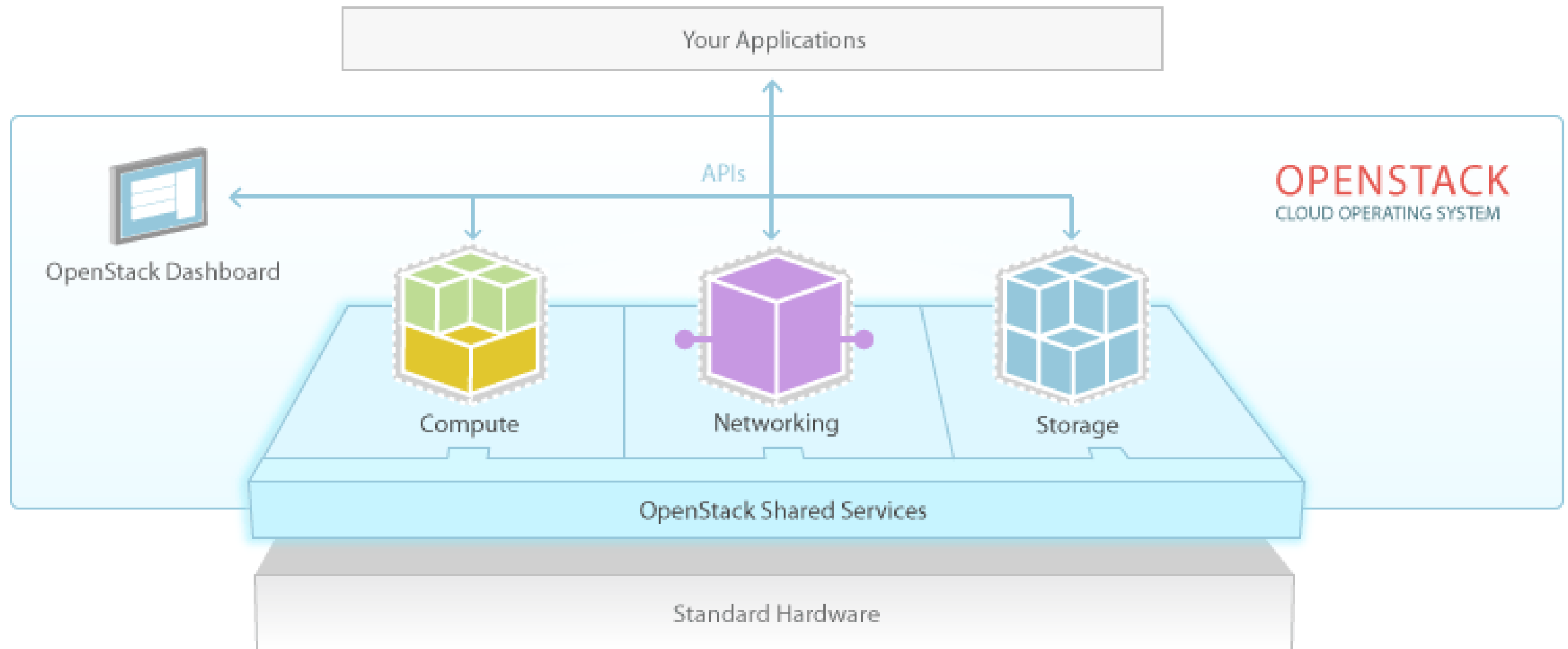
- › Every datacenter
- › Every server
- › Every network device
- › Every storage system

OpenStack Mission

To produce the
ubiquitous open source cloud computing platform
that will meet the needs of public and private clouds
regardless of size, by being simple to implement and
massively scalable.

OpenStack Cloud Platform

Technology Platform



Code available under Apache 2.0 license. Design tenets
– scale & elasticity, share nothing & distribute everything



Open Development Process

Technology Platform



Time-Based Release Cycle

New software release every six months, with interim milestones

Twice Yearly Design Summits

Immediately following software release to plan next version
Sessions led by developers and Project Technical Leads

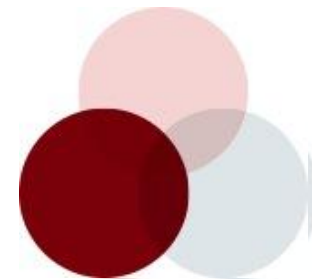
Broad Contributions

1000 developers, from over 50 companies worldwide

Elected Leadership

Developers elect their own Project Technical Leaders





Fastest Growing Global Open Source

COMPANIES

271

Members: 24
Sponsors: 50
Supporters: 197

INDIVIDUAL MEMBERS

12,423

COUNTRIES

131

TOP 10 COUNTRIES

United States, China, India,
Great Britain, Australia, France,
Russia, Canada, Ireland, Germany

TOTAL DEVELOPERS

1403

AVERAGE MONTHLY CONTRIBUTORS

250+

Code Contributions

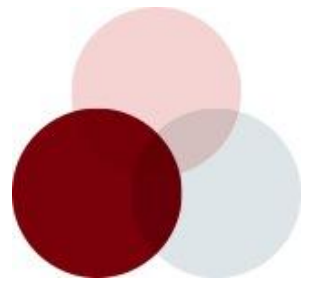
84,666

“OpenStack appears to be a **more advanced** or **more modern open source** project than some of its predecessors because it's a **highly coordinated** effort.”

– **Charlie Babcock**
Information Week

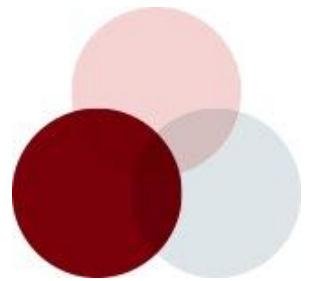


Global Community

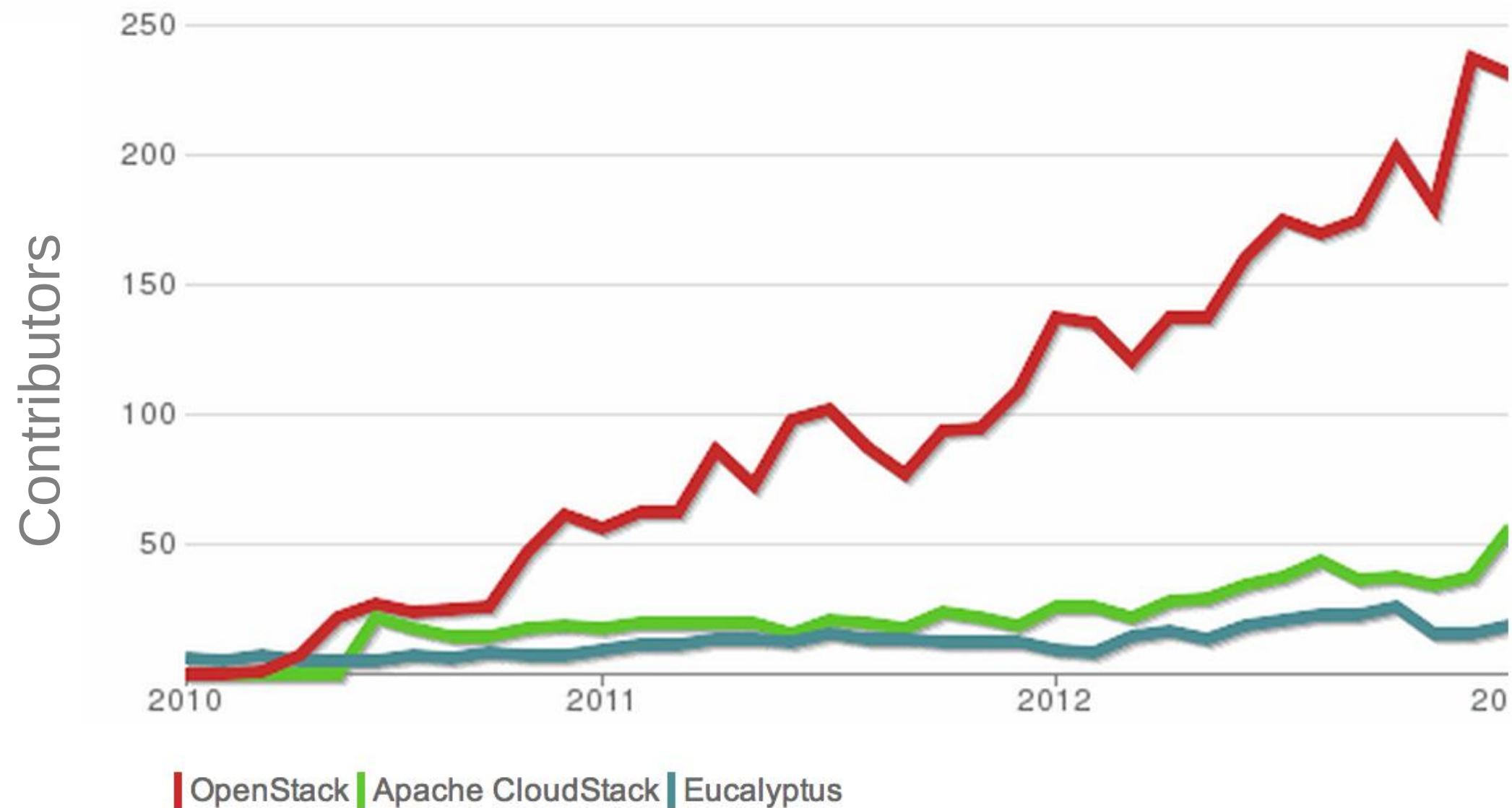


Countries with members

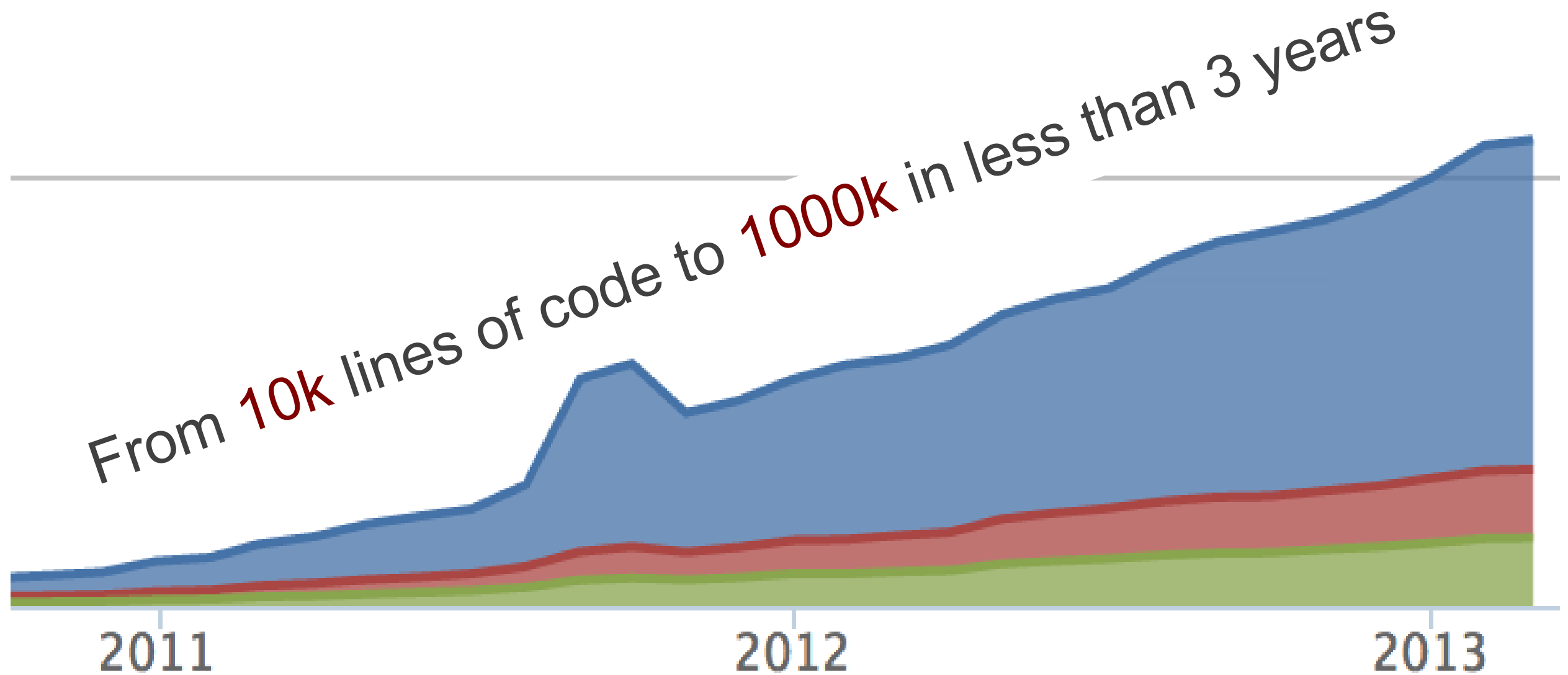
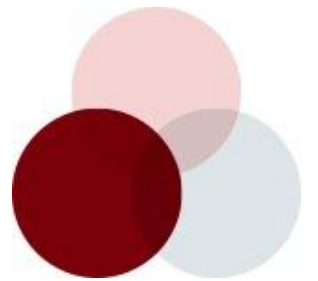
Developer Interest & Commitment to Platform

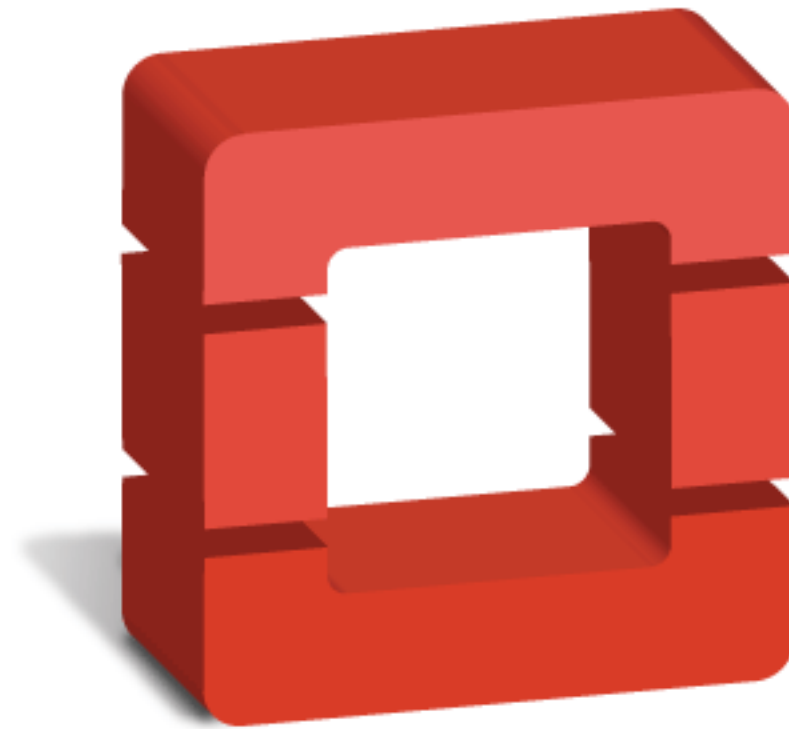


Average of 230+ unique contributors per month



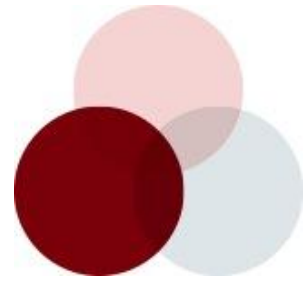
Developer Interest = Rapid Innovation





openstack®
CLOUD SOFTWARE

Massive Industry Backing



AT&T



Canonical



HP



IBM



Nebula



Rackspace



Red Hat, Inc.



SUSE

Gold Members



CCAT



Cisco



Cloudscaling



Dell



DreamHost



eNovance



Ericsson



Intel



Juniper Networks



Mirantis



Morphlabs



NEC



NetApp



Piston Cloud



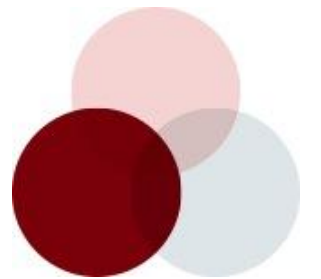
VMware



Yahoo!

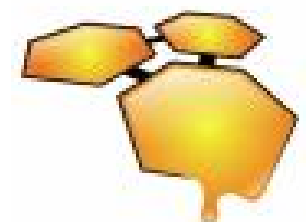
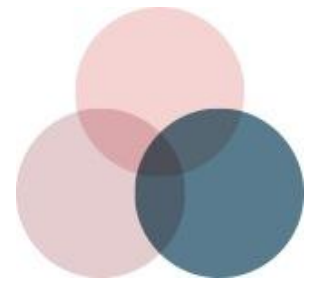
Incredible Industry Support

In every single category, the
top 3 vendors support OpenStack



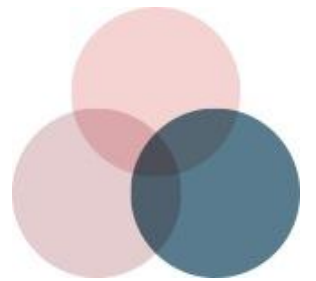
Diverse Use Cases

User Footprint



PayPal Uses OpenStack

User Footprint



Processed more than \$26,000 in mobile payments every minute in 2012

OpenStack runs thousands of VMs to support their self-service developer model

Internal team manages deployment and operations, using OpenStack Compute, Storage & Shared Services

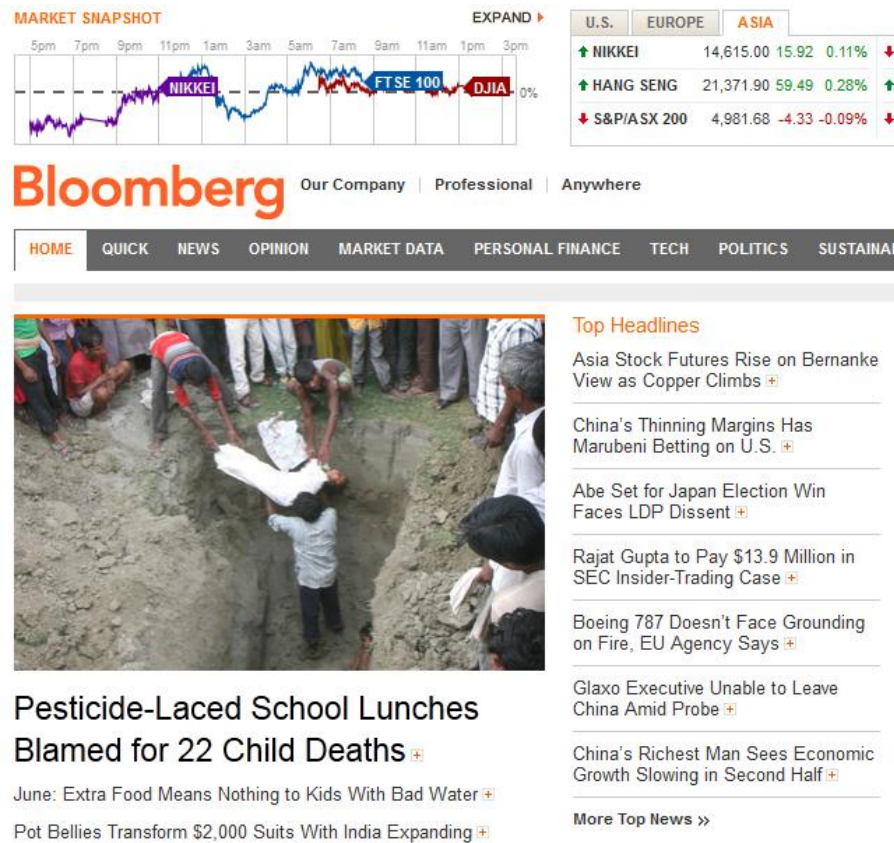
“We needed agility without sacrificing availability. By leveraging the collective innovation of the OpenStack community, we can develop and grow our private cloud much quicker without having to reinvent anything.”

Saran Mandair, senior director of infrastructure engineering,
PayPal



Bloomberg Uses OpenStack

User Footprint



All about data – 50 billion ticks per day,
20 million IMs, 220 million emails

One of largest private networks in the
world – largest server side java script
deployment - 22 million lines

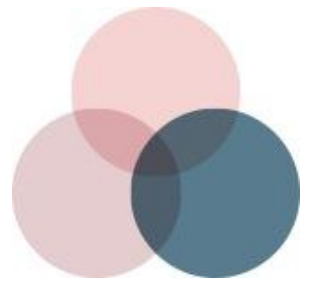
Wanted elastic infrastructure with high
availability and scale down ability,
open architecture, modularity

Pravir Chandra, CTO
Security Architect, Bloomberg



Intel Uses OpenStack

User Footprint



Intel IT supports more than 75,000 servers in 69 data centers

And more than 91,000 employees who connect to Intel resources through more than 138,000 mobile devices.

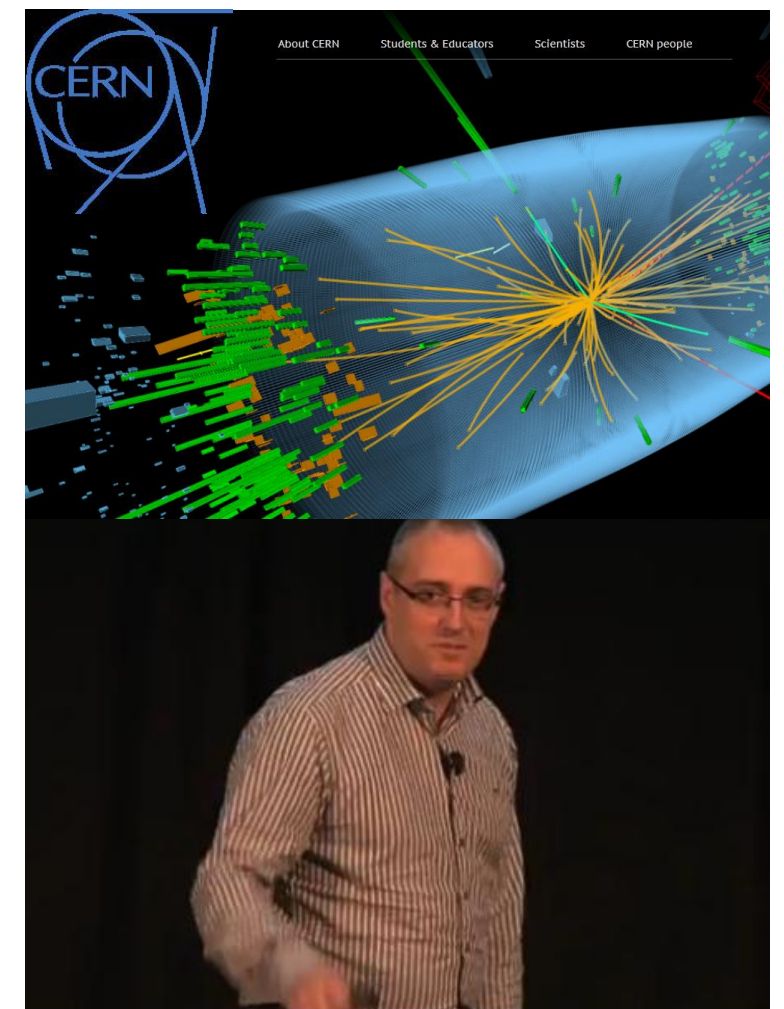
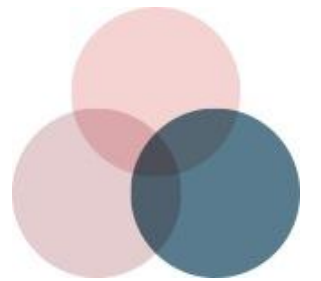
“OpenStack has dramatically reduced the amount of time it takes to provision services and automatically resolve resource issues. We can now deploy a VM in just five to 10 minutes, provide faster self services to our customers, and offer a more reliable infrastructure with rolling updates that will keep our infrastructure current without burdening our staff.”

Das Kamhout, principal engineer and cloud lead, Intel



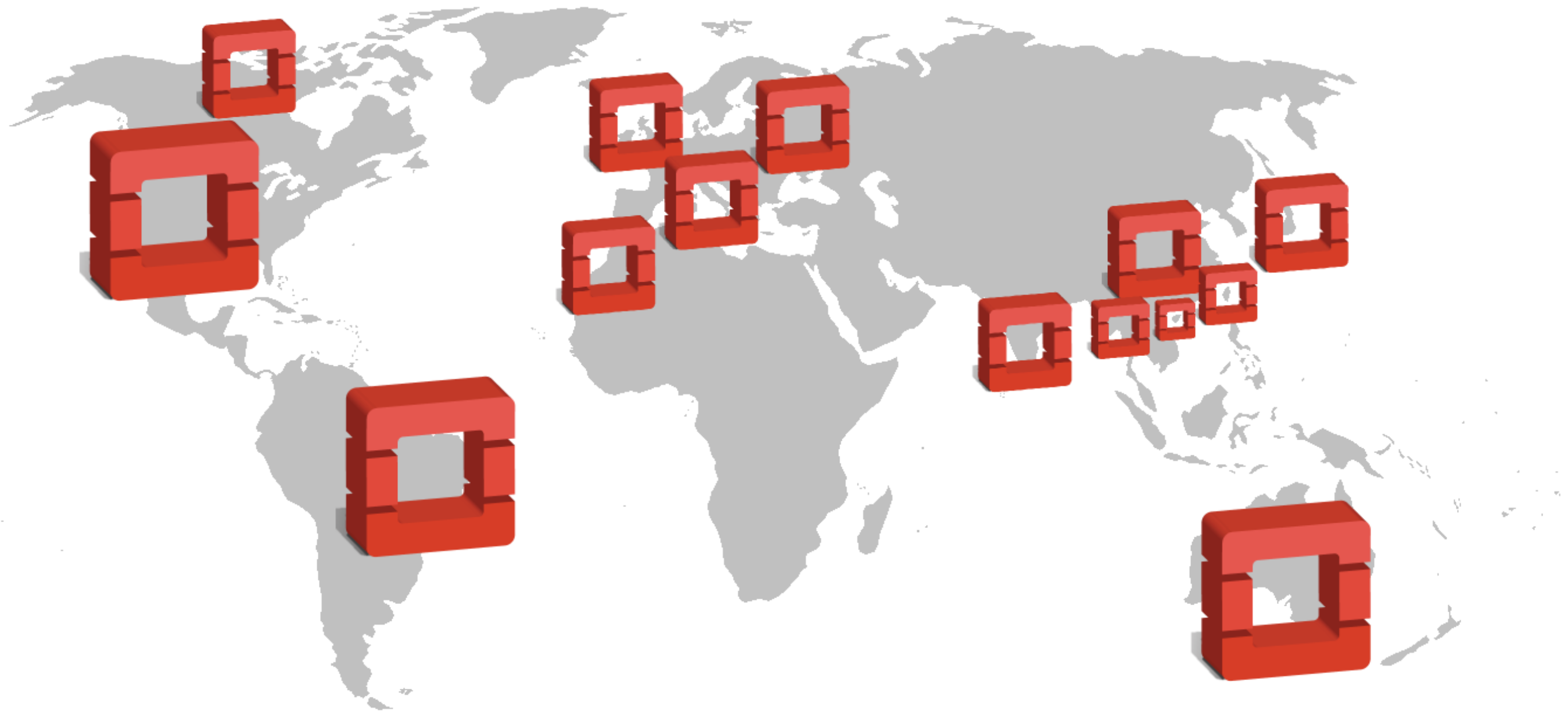
Comcast, Best Buy, CERN power their businesses with Openstack

User Footprint



<http://www.openstack.org/summit/portland-2013/session-videos/>

Governments using Openstack



Who is behind OpenStack?

The OpenStack Foundation

Protecting, Empowering, and Promoting OpenStack software and the community around it, including users, developers and the entire ecosystem.

- Over 12,300 Individual Members, up from 5,600 at launch
- The leading Global IT companies as Gold & Platinum Members
- Board of Directors that sets strategic direction
- Project Technical Leads and a Technical Committee that are elected from among the contributors
- User Committee to ensure the users voices are heard



Core Values

We're keeping sacred what has made OpenStack so successful

Open source is essential to unlock the value of cloud computing

Four opens:

- Open Design

- Open Development

- Open Community

- Open Source

See you in Hong Kong



// DEVELOPERS // USERS // OPS

openstack.org/summit

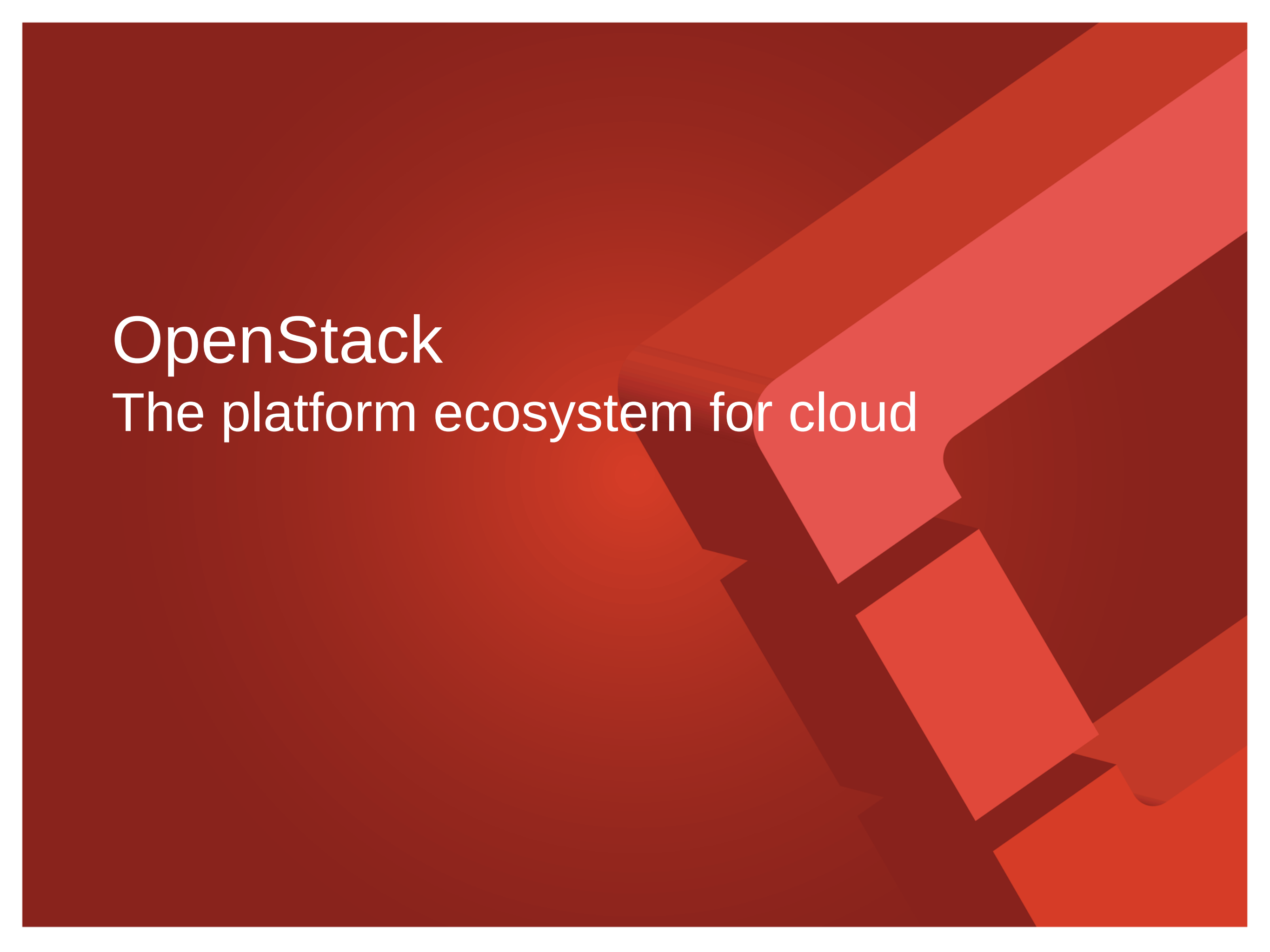
香港 HONG KONG

November 5-8, register now!

Design Sessions: not a classic track with speakers and presentations - generally an open brainstorming discussion on a given feature

Conference Sessions: Keynotes, Case Studies, Ecosystem, Operations, Strategy, Workshops





OpenStack

The platform ecosystem for cloud