



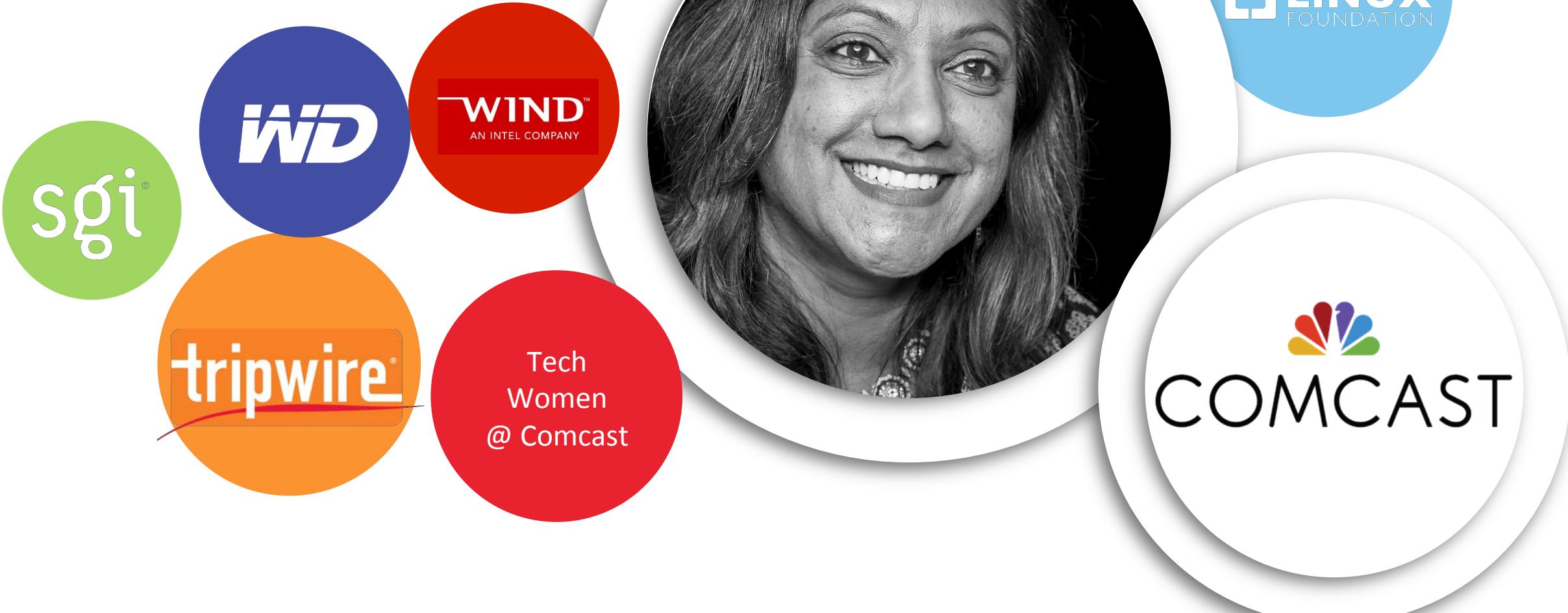
How Comcast Embraced Open Source: Key to Success in DevOps

Nithya Ruff, Head, Comcast OSPO



June 26, 2019

WHO I AM



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A global media and technology company with several businesses, including Comcast, NBCUniversal, and Sky.

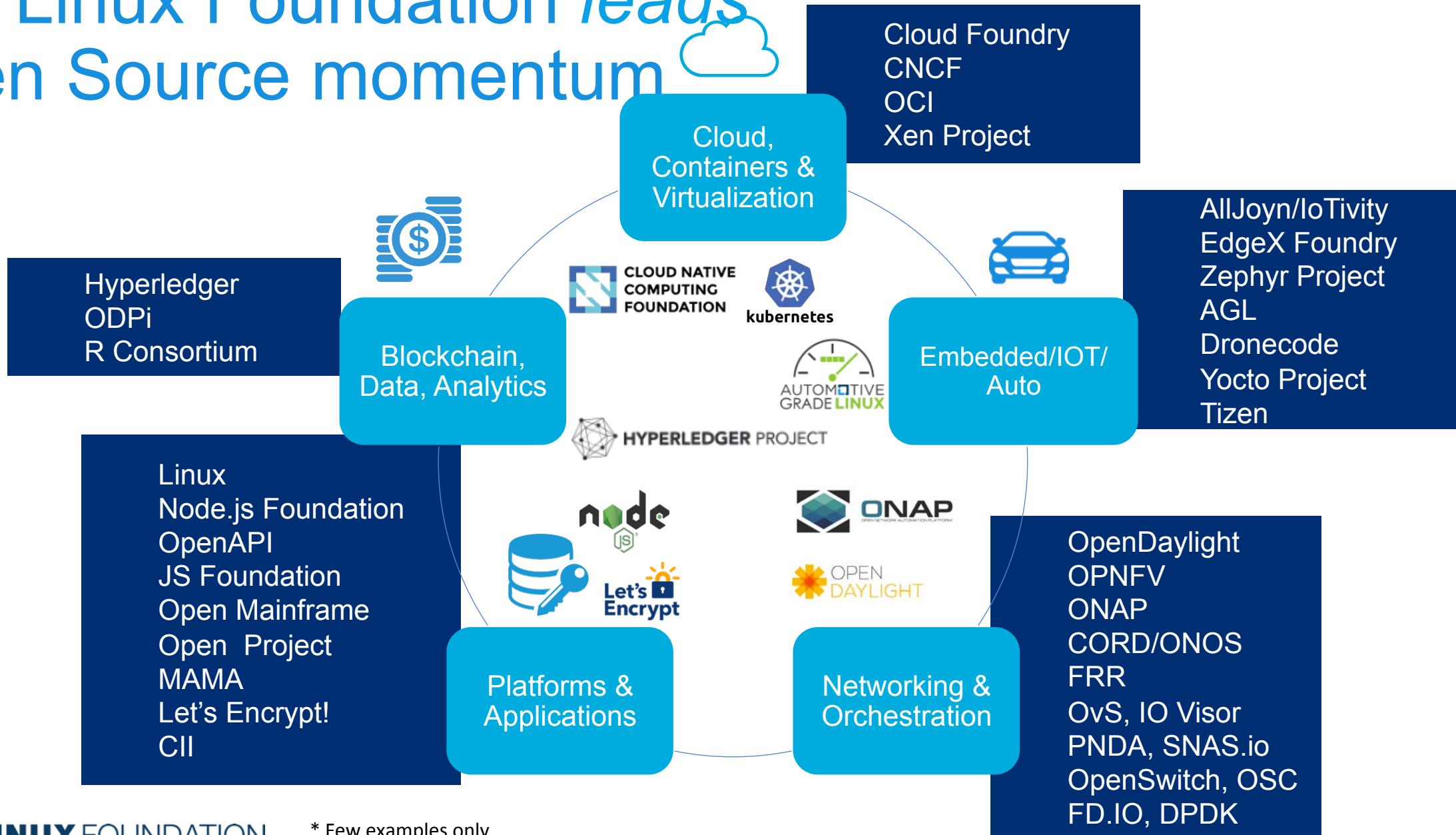
COMCAST	NBCUniversal					sky
Products & Services	Cable Networks	Broadcast	Film	Parks	Products & Services	
xfinity xFi xfinity x1 xfinitymobile xfinity home COMCAST BUSINESS COMCAST SPOTLIGHT® FREEWHEEL A COMCAST COMPANY	 	 <p>NBCUniversal Owned Television Stations NBC Owned Television Stations Telemundo Station Group</p> 	 	 	 	
Comcast Spectacor					Channels & Content	
COMCAST SPECTACOR SPECTRA BY COMCAST SPECTACOR Wells Fargo Center Wells Fargo Center FUSION					 	
COMCAST VENTURES™	Digital & Other		 			

*Minority interest and/or non-controlling interest.

Slide is not comprehensive of all Comcast NBCUniversal assets

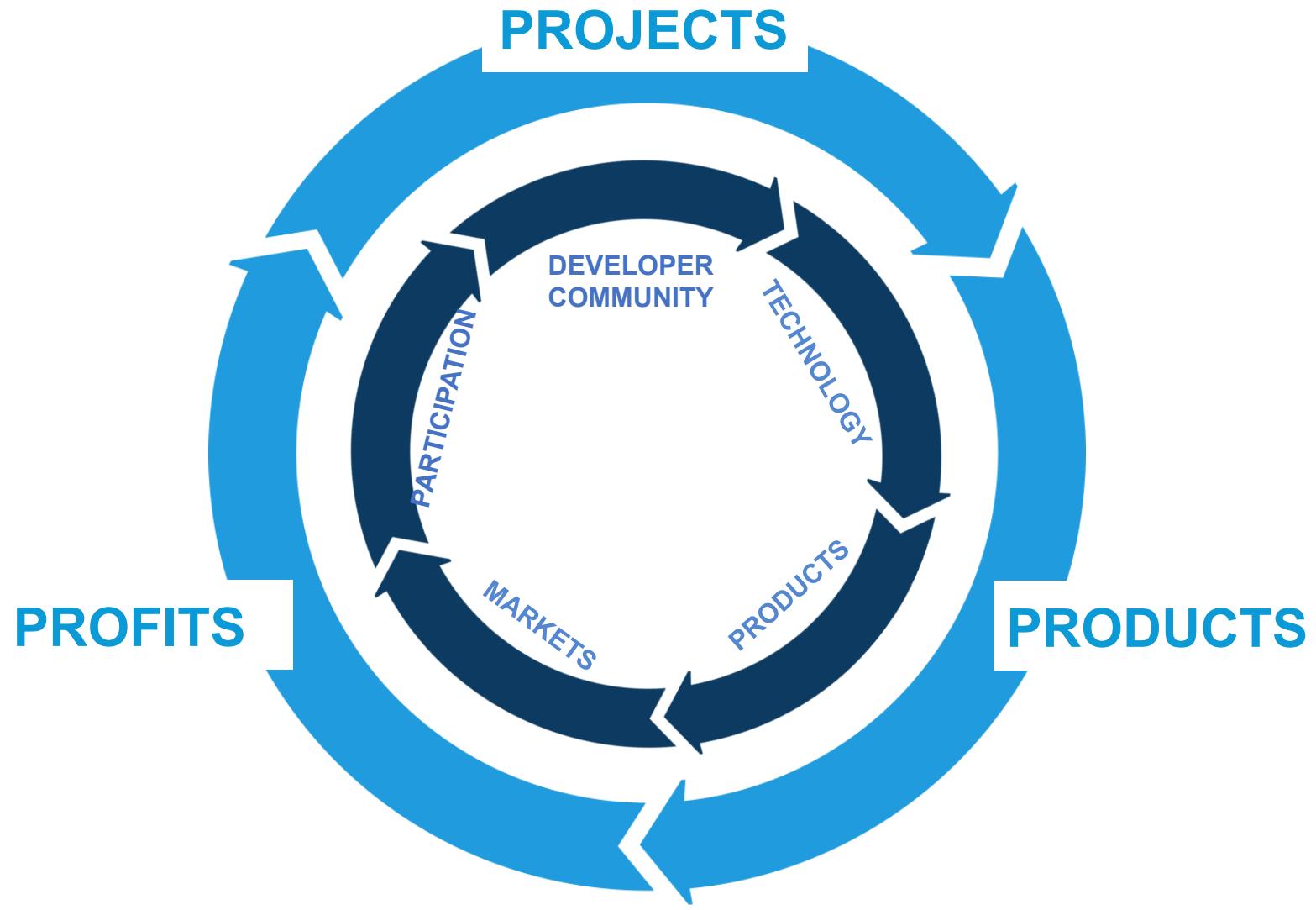
Updated: December 03, 2018

The Linux Foundation *leads* Open Source momentum



The LF strategy is to create sustainable ecosystems

Successful projects depend on members, developers, standards and infrastructure to develop products that the market will adopt



To be the organization of choice for developers and companies to build sustainable open source ecosystems.

First Wave - Individuals Create Communities



Ideological, Enthusiastic, Individuals and Fringe

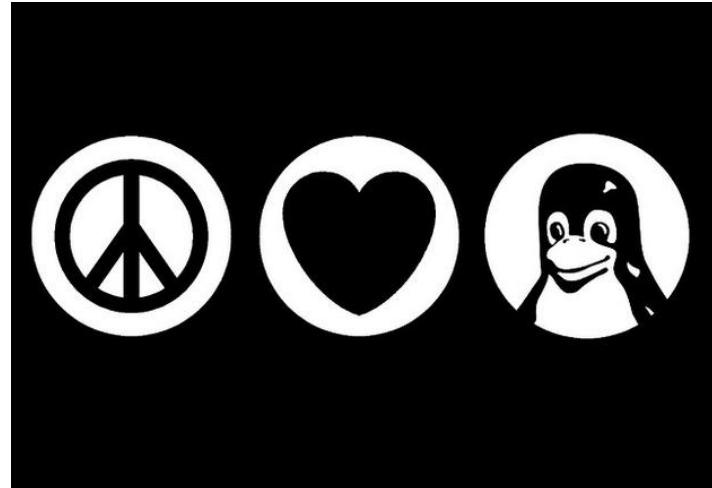
The Beginning Of 2nd Wave – Start of Corporate Adoption



Free or Open?

Free speech, not free beer!

2nd Wave: Foundations and Traditional IT Vendors



IBM's Open Source Campaign

IBM, Sun, SGI, HP
Red Hat and VA Linux

3rd Wave of Open Source: Cloud Vendors



Google Cloud



Tencent 腾讯

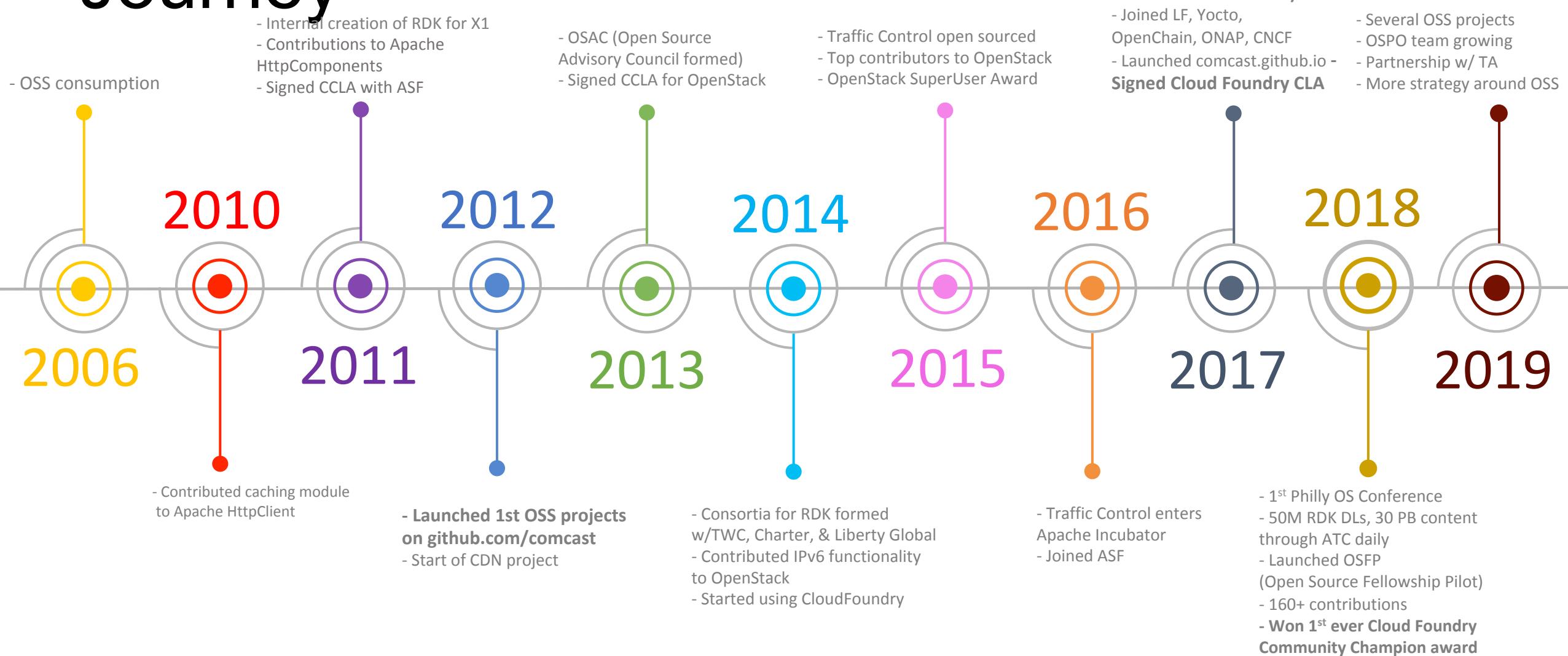


Open Source is winning in the data center as the emerging standard for most of cloud infrastructure components.

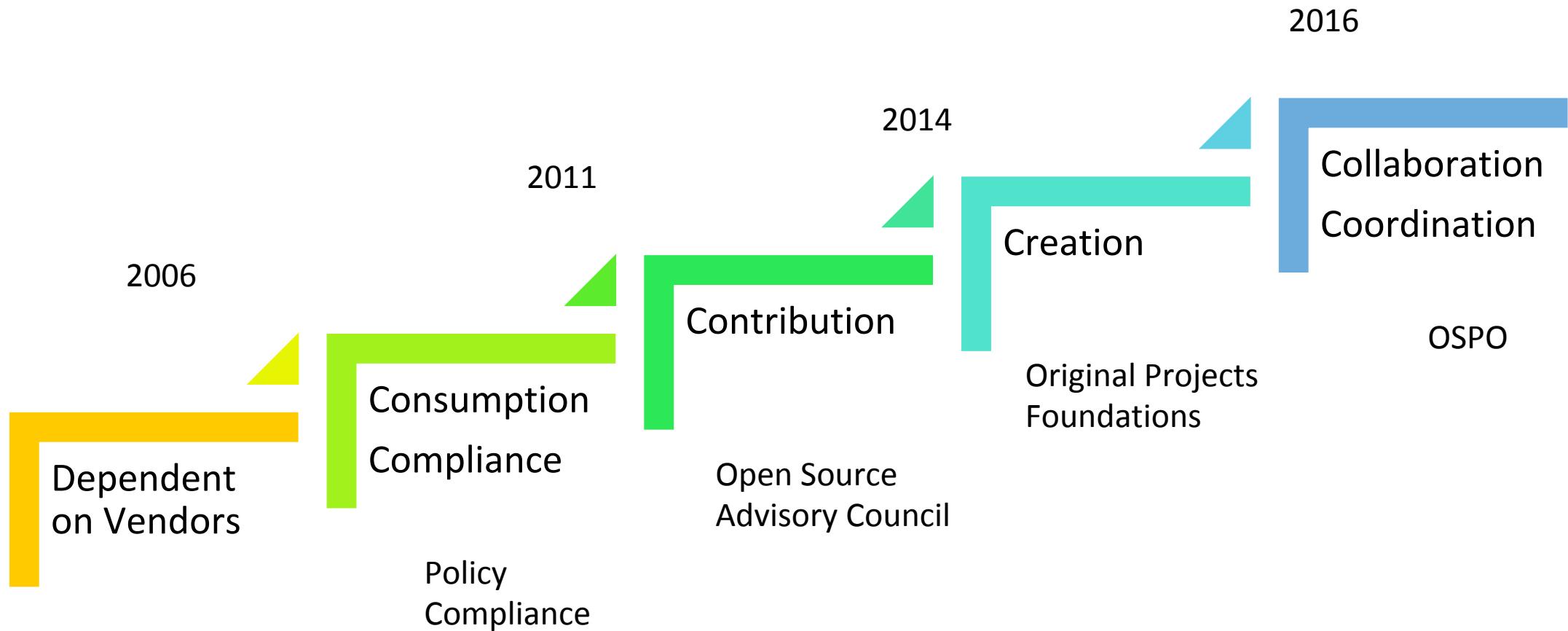
The 4th Wave – Enterprises Going Past Consumption



Comcast's Open Source Journey



The Phases of the Open Source Journey





Open Source Program Office

Comcast Cable

CTO

Software Strategy
and Transformation

Companies Start Open Source Offices – Competitive Advantage



Members

Who is in the TODO group?

TODO is an open group of companies who run open source programs. Our members include:



ARM



Bai 百度



CapitalOne



DiDi



ebay



Google



Huawei



intel



NATIONAL INSTRUMENTS



PayPal



Qualcomm



redhat



SAUCELABS



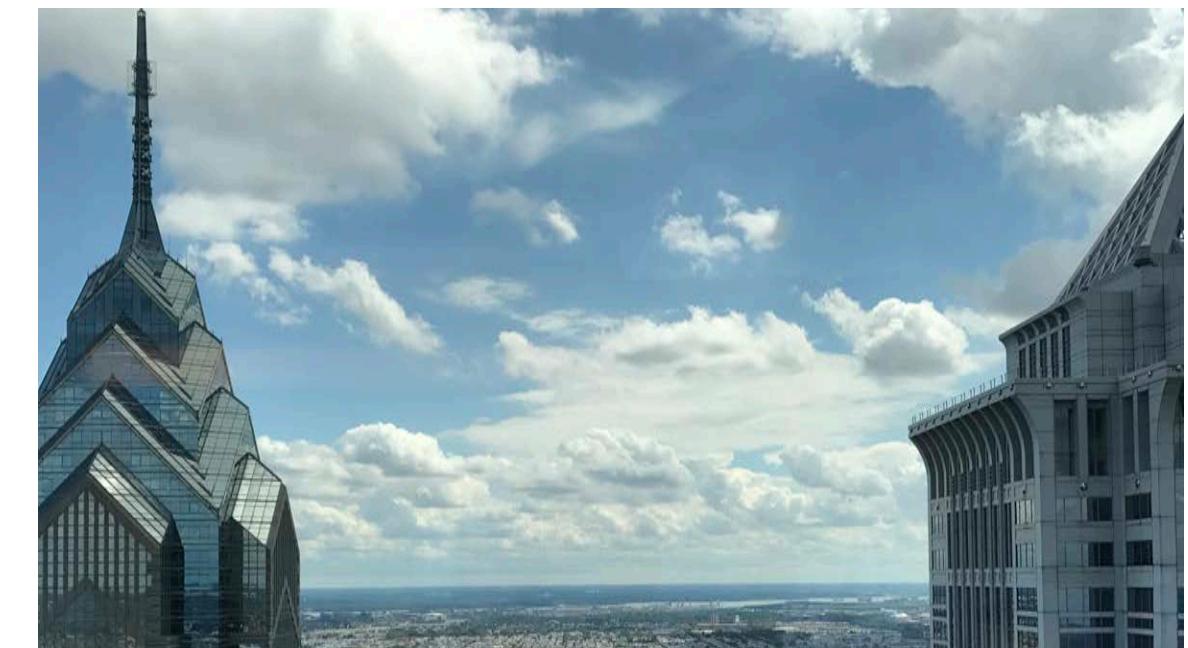
stripe



Uber



VMware



The Value of a Focused OSPO Effort

How do I integrate upstream development with my solution R&D?

What open source business models work?

How can I be sure open source code is interoperable with other solutions?

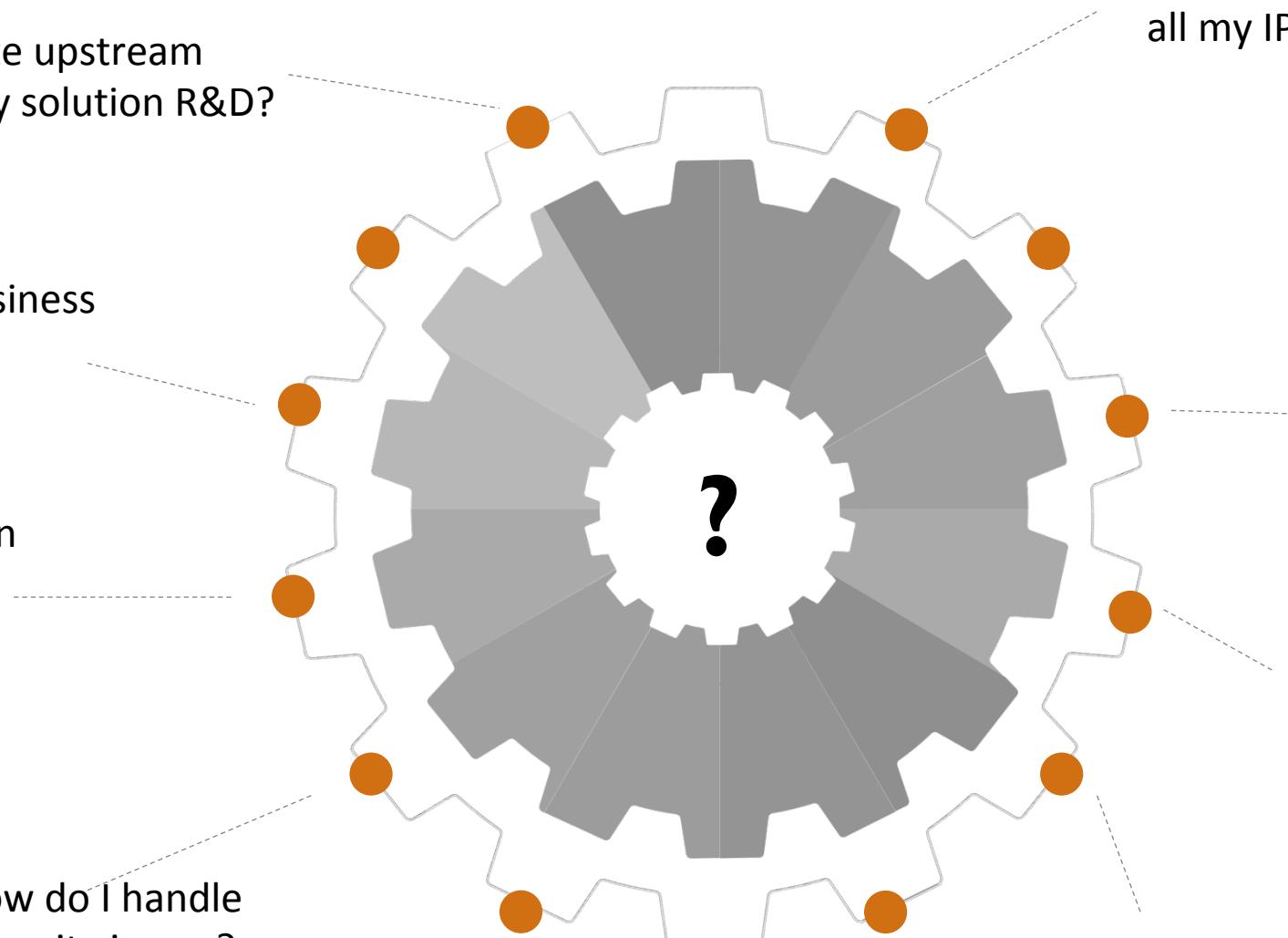
How do I handle security issues?

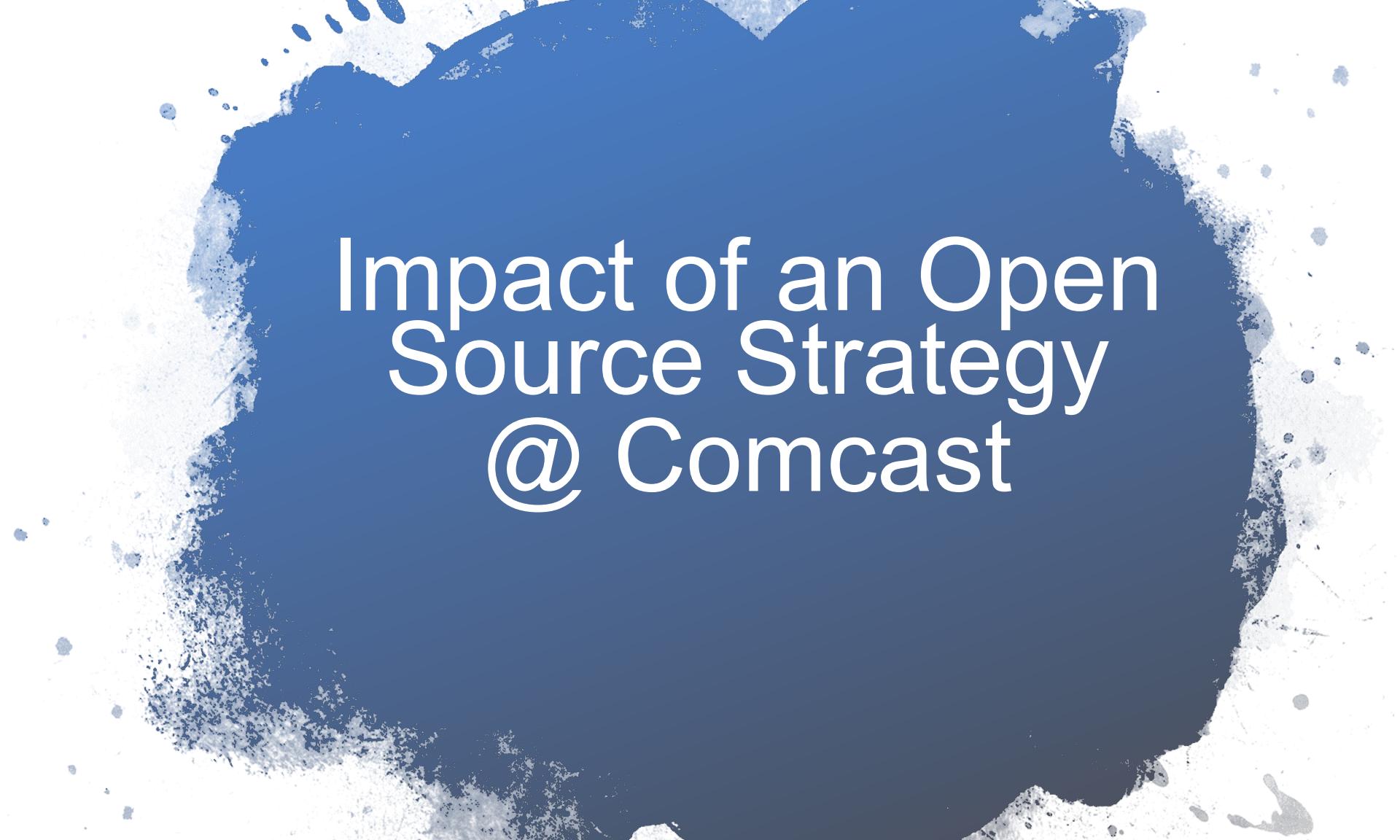
How do I know I am not giving away all my IP by using open source?

Will I lose control of my code if I open source my technology?

Why should I contribute my bug fixes upstream?

Which communities are most aligned with my business?





Impact of an Open Source Strategy @ Comcast

A close-up photograph of a person's hands holding a vintage Mamiya 645 SLR camera. The camera is black with a silver lens. The lens has "MAMIYA" and "SEKOR C" printed on it, along with "f=80mm" and "No.18923". The background is blurred, showing a bright sky and some foliage.

Benefit # 1
Focus on Company
Core Competency;
Use Open Source As
Starting Point



Open Source Enables
Talent Acquisition,
Onboarding, Faster
Ecosystems



eat, drink & feel good

Benefit # 2
Know what your critical
open source
dependencies are



Benefit # 3
**Break Down Silos
Inside the
Company;
Collaborate better
outside**



Challenge #1:

Engaging Middle Management



Challenge # 2:

Engaging Your Legal Team



Challenge # 3

Diversity of
people and
contributions
in Open Source

What metrics to
track to show
business impact?

Contributing to
the broader open
source

Move the
envelope on what
to open source.

Help I am Looking For

@nithyaruff

Resources

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