

# OpenDaylight Nitrogen DDF Welcome

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# Outline

- OpenDaylight Update – Many Production Deployments
  - Networking Projects – Better Together
  - Use Case Highlights
  - Growing Our Community In China
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# OpenDaylight

Network programmability & automation--

Carriers ♦ Enterprises ♦ Universities ♦  
Smart cities and utilities



Founded 2013 - most  
mature open  
networking project

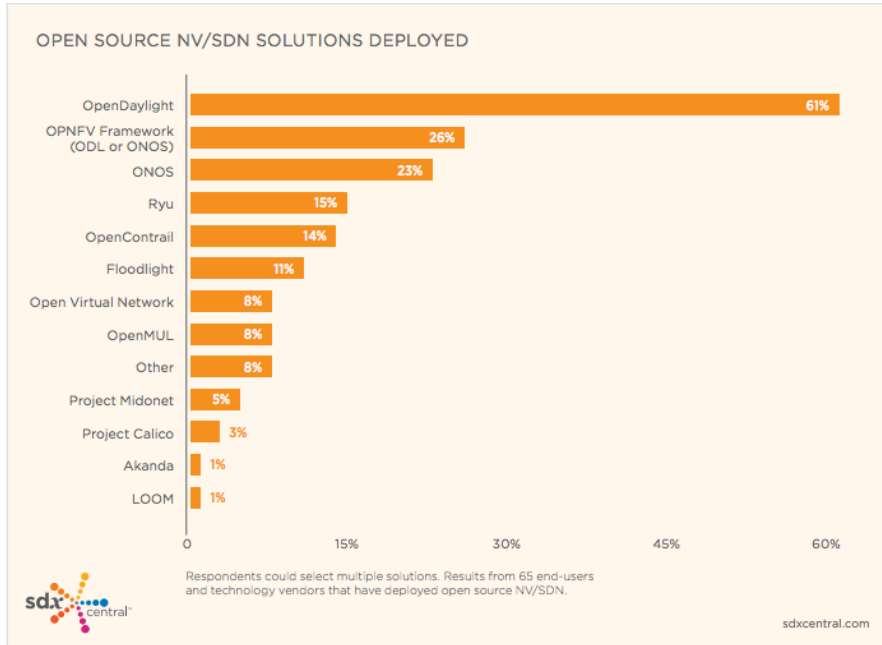
Most widely deployed  
OSS NW platform

>2000 contributors--  
vendors, users,  
independents

60% of new projects  
from users

5k+ members in global  
community

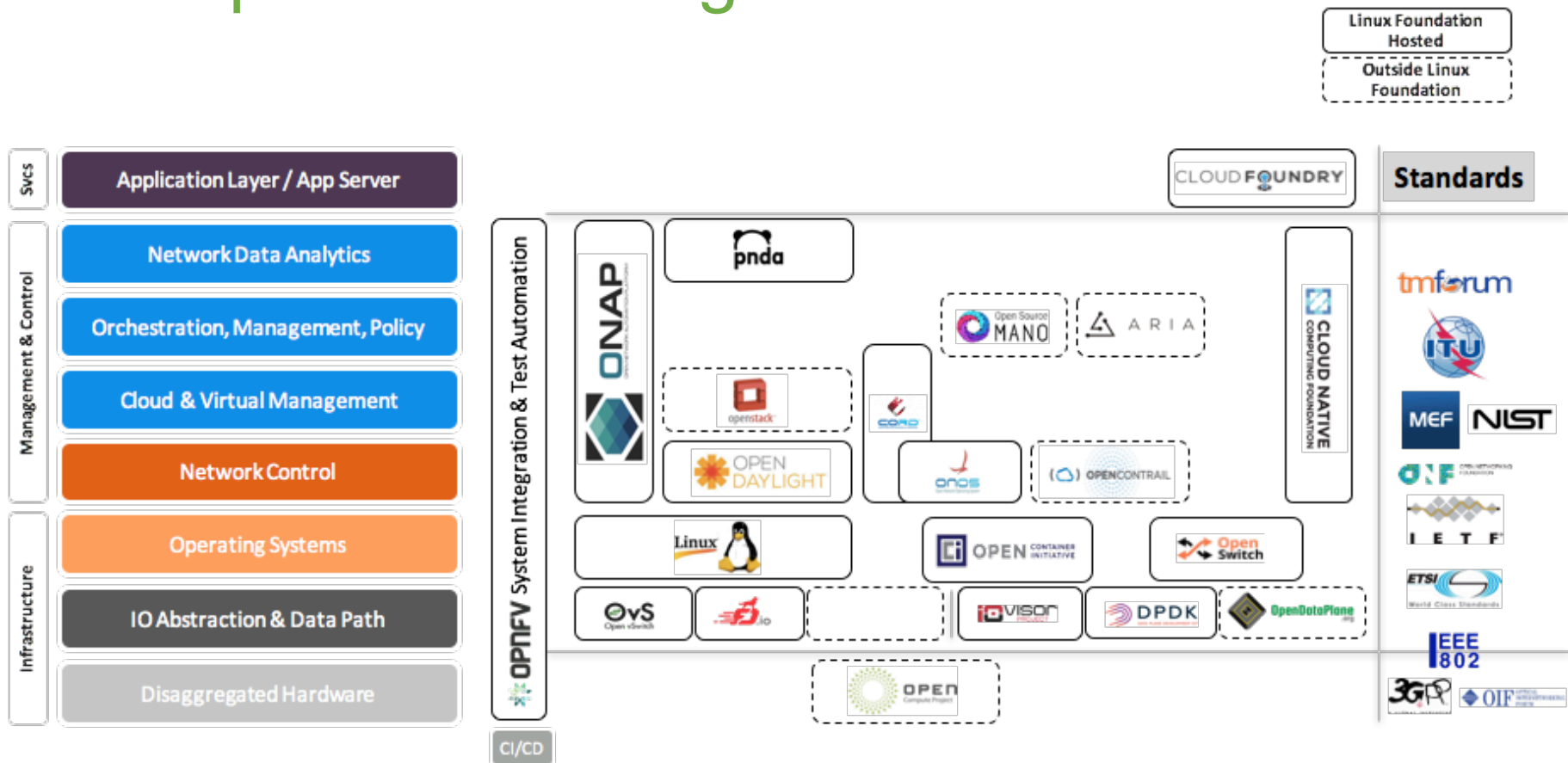
# Foundation of Open Networking



“OpenDaylight fundamentally changed the Linux Foundation’s world. It’s been wildly successful. It’s the *de facto* standard open source SDN controller for the industry today.”

- Dave Ward, Cisco CTO

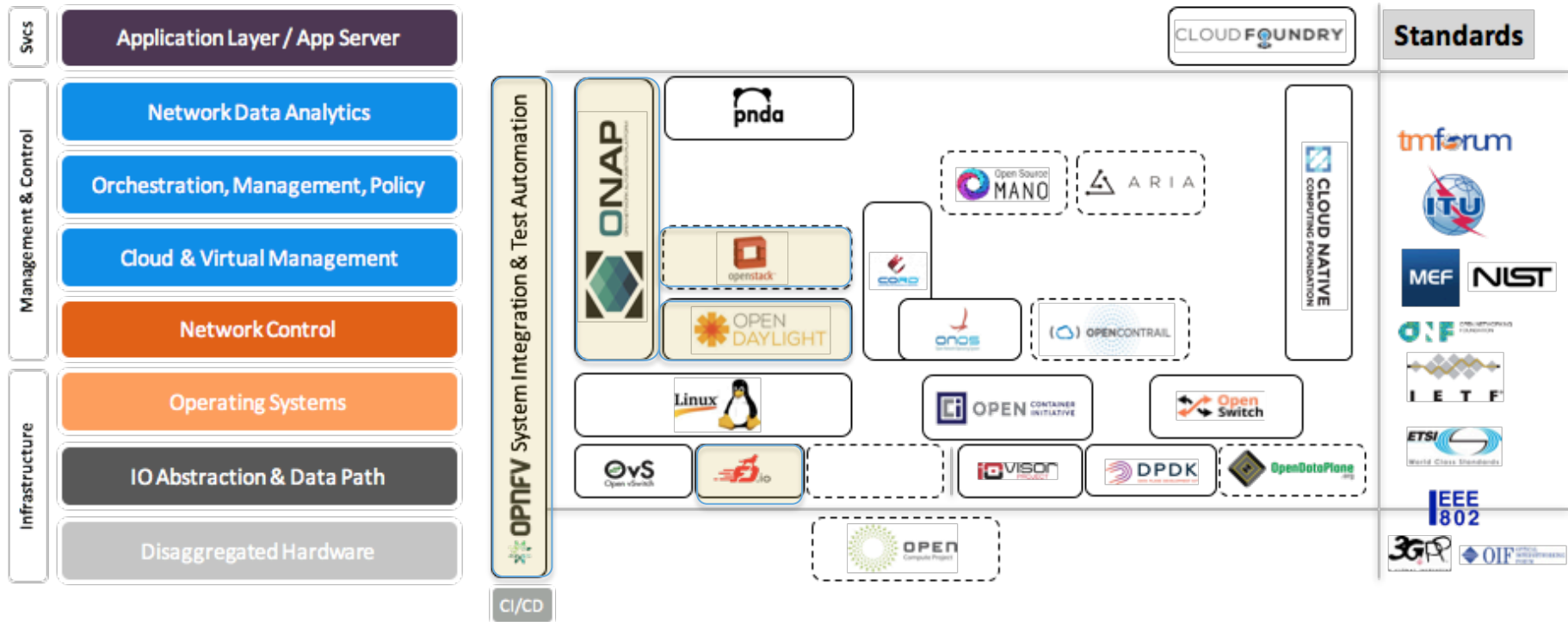
# The Open Networking Stack



Automation of Network + Infrastructure + Cloud + Apps + IOT

# The Open Networking Stack – Coming Together

Linux Foundation Hosted  
 Outside Linux Foundation



Automation of Network + Infrastructure + Cloud + Apps + IOT

# Virtualizing A Central Office: Leading Use Case

## Many paths to architecting a Central Office as a Data Center

**“We built a CORD system using a set of components...that are open source and generally available — OpenStack, OpenDaylight controllers, Intel software toolkits. Just because you’re doing CORD doesn’t mean you have to do ONOS CORD.”**

CenturyLink Surges Forward with Its Own Version of CORD



Linda Hardesty  
March 22, 2017  
11:19 am PT

**—Adam Dunstan, CenturyLink  
VP of SDN and NFV engineering**

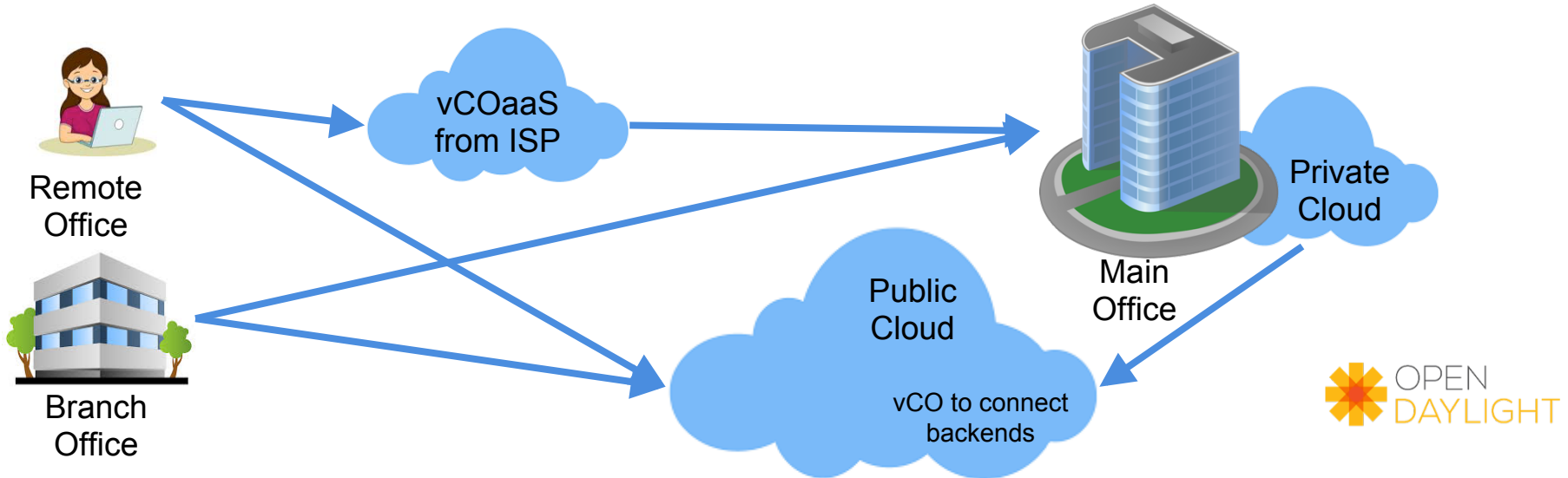
CenturyLink is on a tight deadline with its commitment to fully virtualize its IP core network by the end of 2019. As part of that, the service provider is emulating some of the [open source](#) communities' work to create a [Central Office Re-architected as a Data Center \(CORD\)](#).

<https://www.sdxcentral.com/articles/news/centurylink-surges-forward-version-cord/2017/03/>



# ROBO: Using vCO Blueprint in Enterprises

- vCO for Enterprises to provide for Remote/Branch offices
  - Maybe offered by ISPs as a service
- Integrating with public cloud will likely involved some form of vCO (either aaS or Enterprise-deployed)
- Hybrid Cloud will almost certainly involve vCO





# Growing the OpenDaylight Community In China

- Many users and vendors are developing OpenDaylight in China
- They have zero to very minimal interaction with the rest of the community
- They are not even talking with each other
  - They run into problems, flounder on their own until they figure out the issue on their own. They don't share what they've learned
- Our existing tools, and processes do not work for them
- We need to first get them talking with each other. Then build bridges between the technical leaders in China with the rest of the ODL community at large
- We may ask OpenDaylight technical leaders to make a trip to China to make introduction and share knowledge

# Conclusions

- **OpenDaylight is the *de facto* open source SDN controller** in the industry
  - Deployed as the core technology from many vendors (ZTE, HPE, Brocade, Red Hat, etc...)
  - In deployment reaching more than a billion mobile subscribers & internet users
- **The Key To Our Success - A vibrant, diverse, set of active developers** from many different users and vendors working together in an open, collaborative community
- **Come Join Us and bring your ideas and developers** to make OpenDaylight even better. Stay tuned for new ways for the Chinese developers to work better together

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Thank you