



OCP SUMMIT

March 20-21
2018
San Jose, CA

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Networking Interoperability Testing Convergence

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Linux Foundation

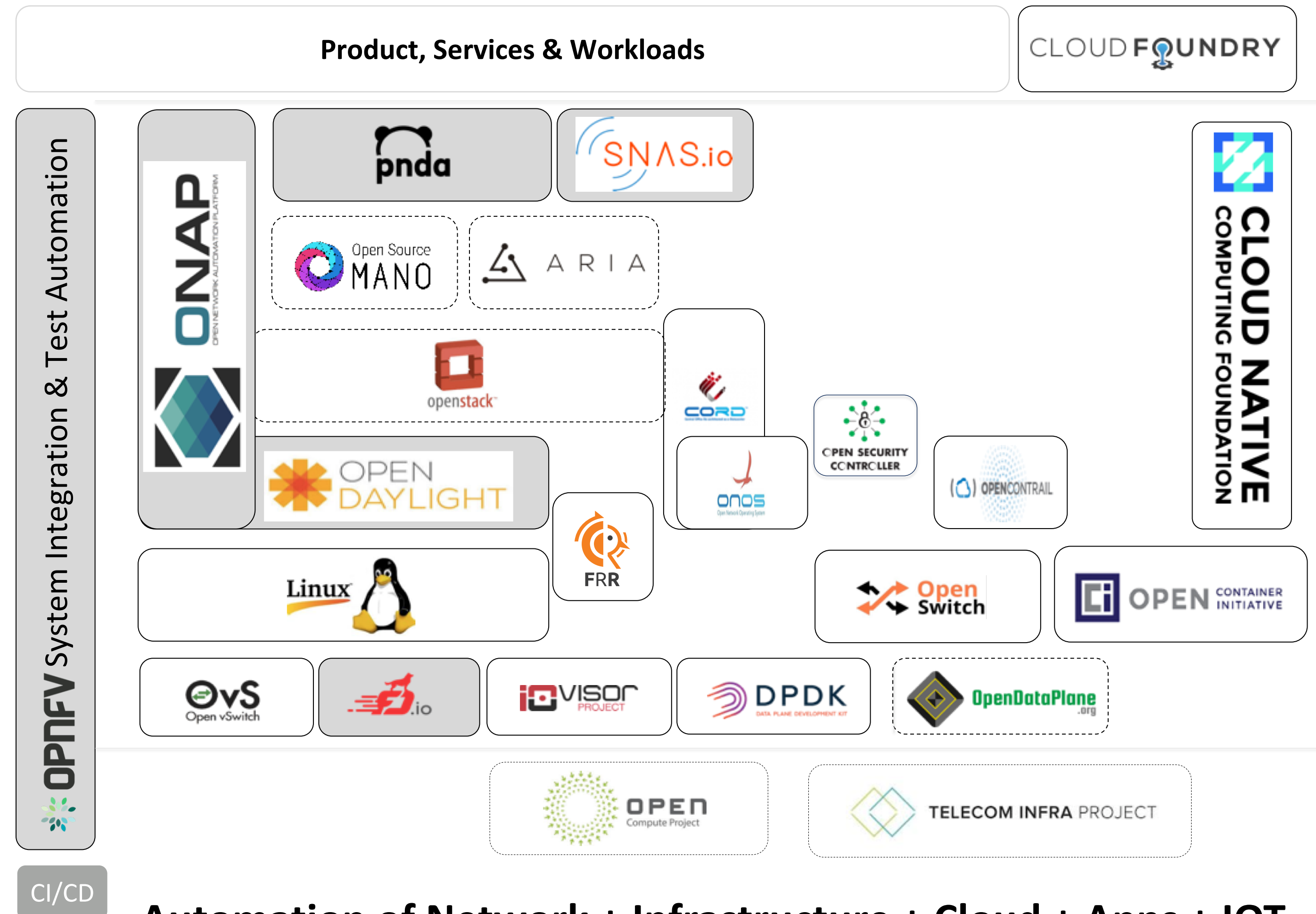
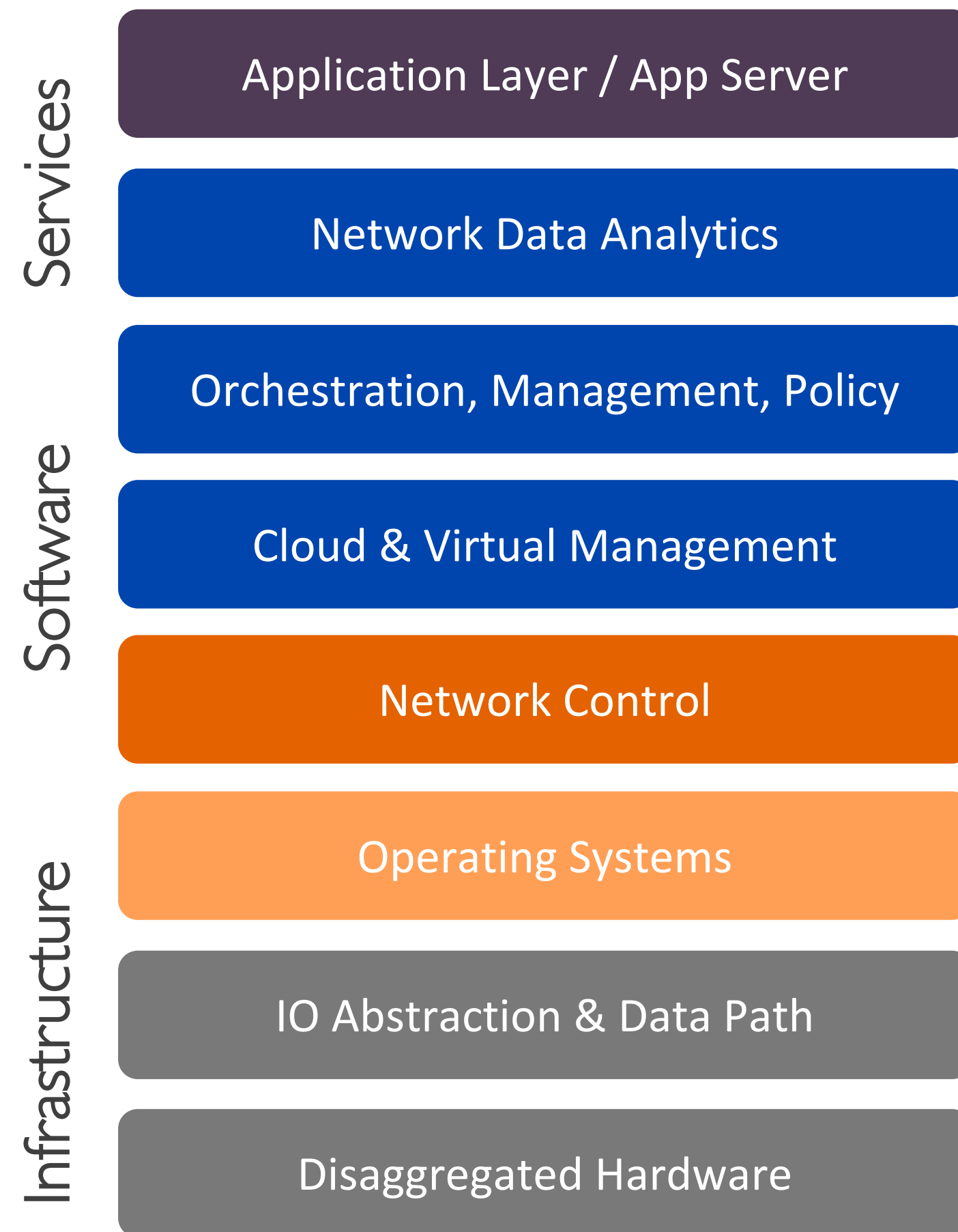
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Agenda

- › Open Source Networking and OPNFV
- › What is OPNFV Plugfest?
- › OCP at OPNFV Plugfests
- › Future collaboration

Open Source Networking Landscape

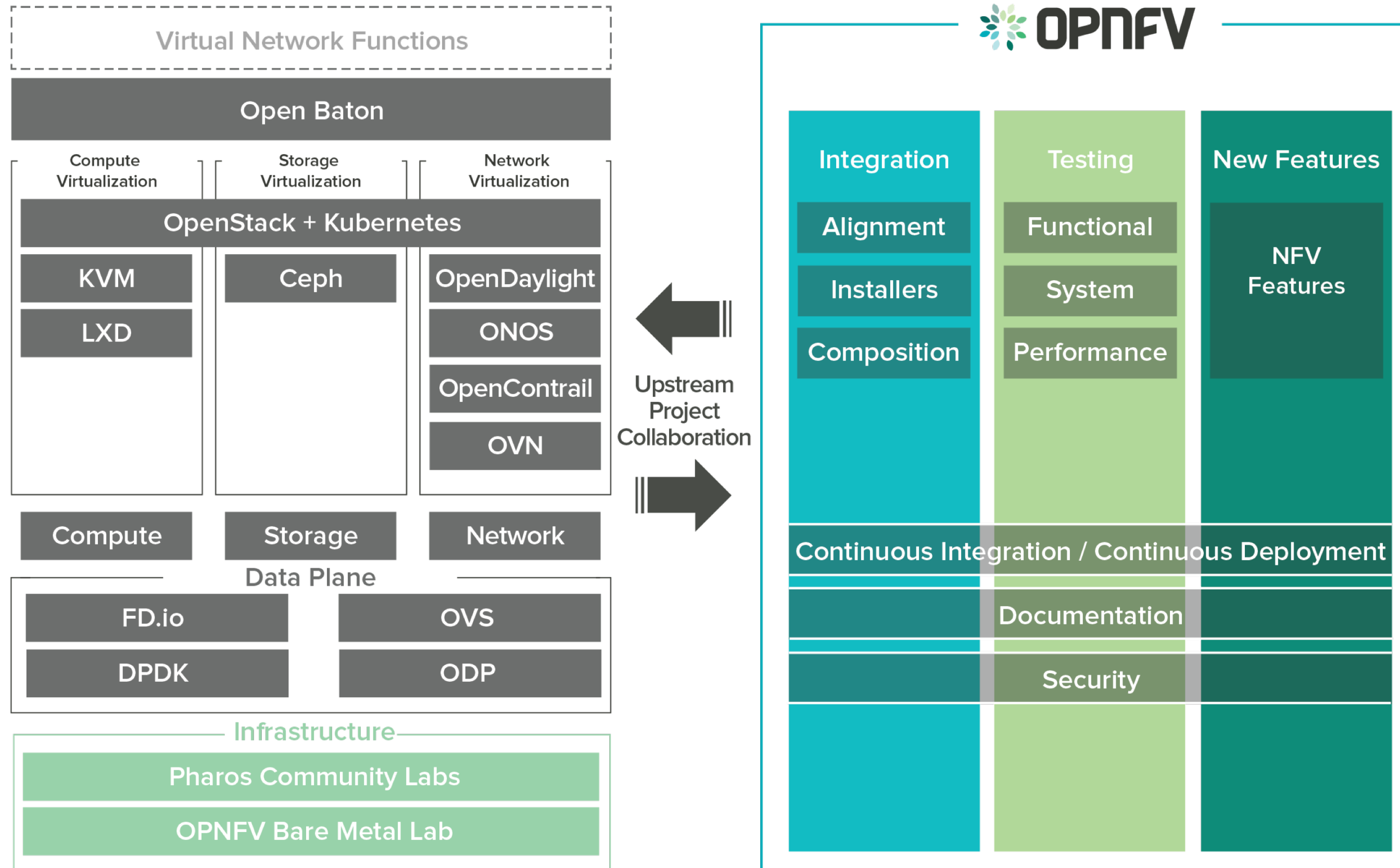


CLLOUDFOUNDRY



Automation of Network + Infrastructure + Cloud + Apps + IOT

What is OPNFV?



OPNFV Community

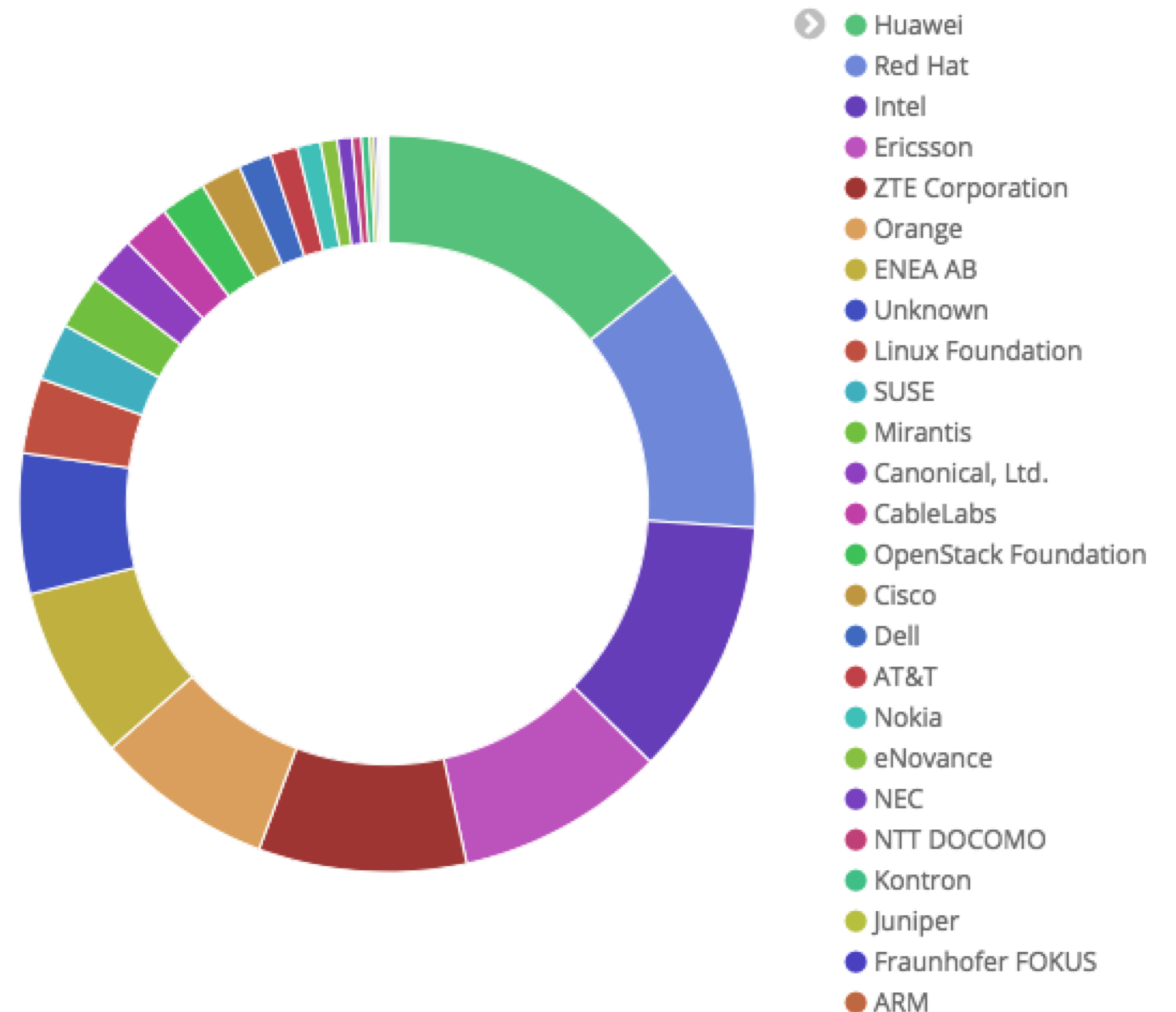
Creates a reference NFV platform through system level integration, deployment and testing.

Project launched September, 2014

Number of releases 5

Planned releases in 2018 Two release per year: Fraser (April) + Gambia (October)

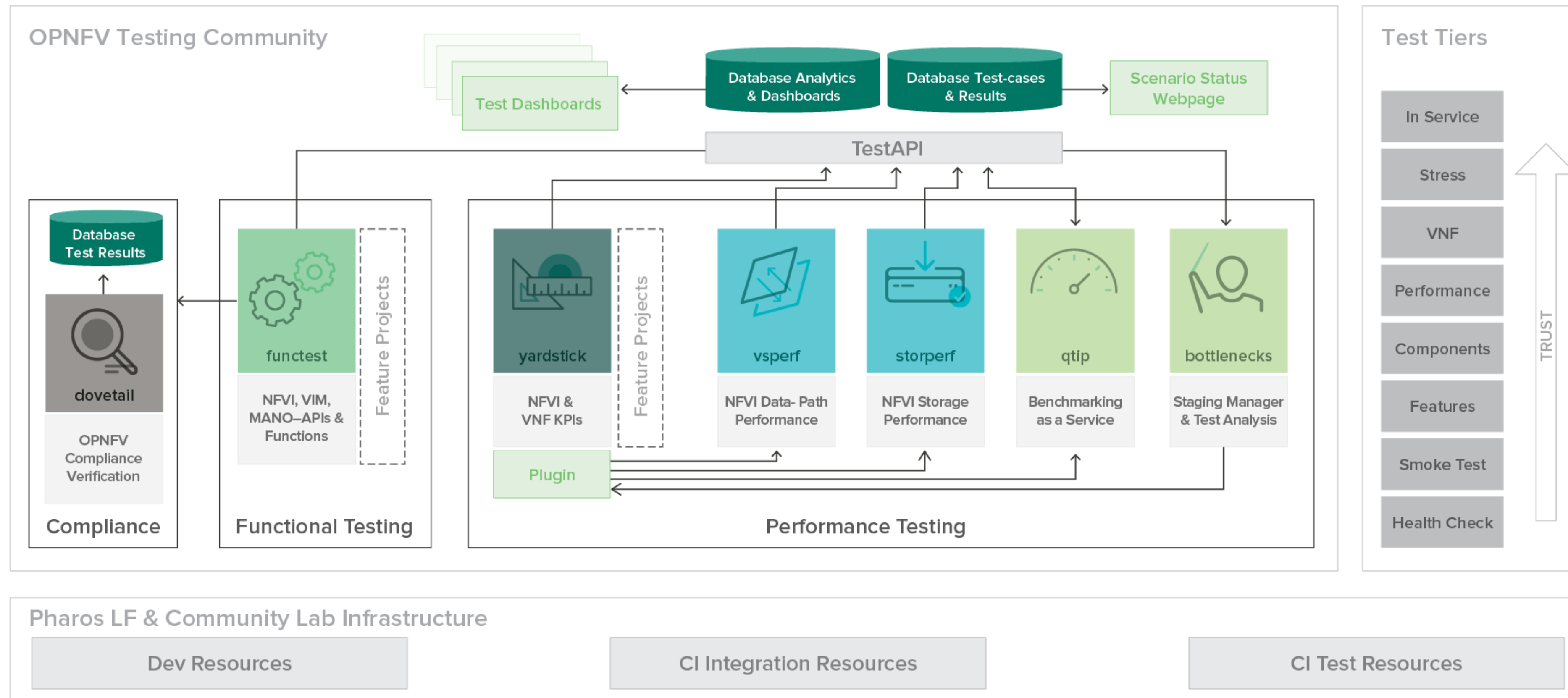
Number of Projects 53



Code contributing organizations in 2017

More details available at <https://opnfv.biterg.io>

OPNFV Testing Community



<http://testresults.opnfv.org/reporting/index.html>

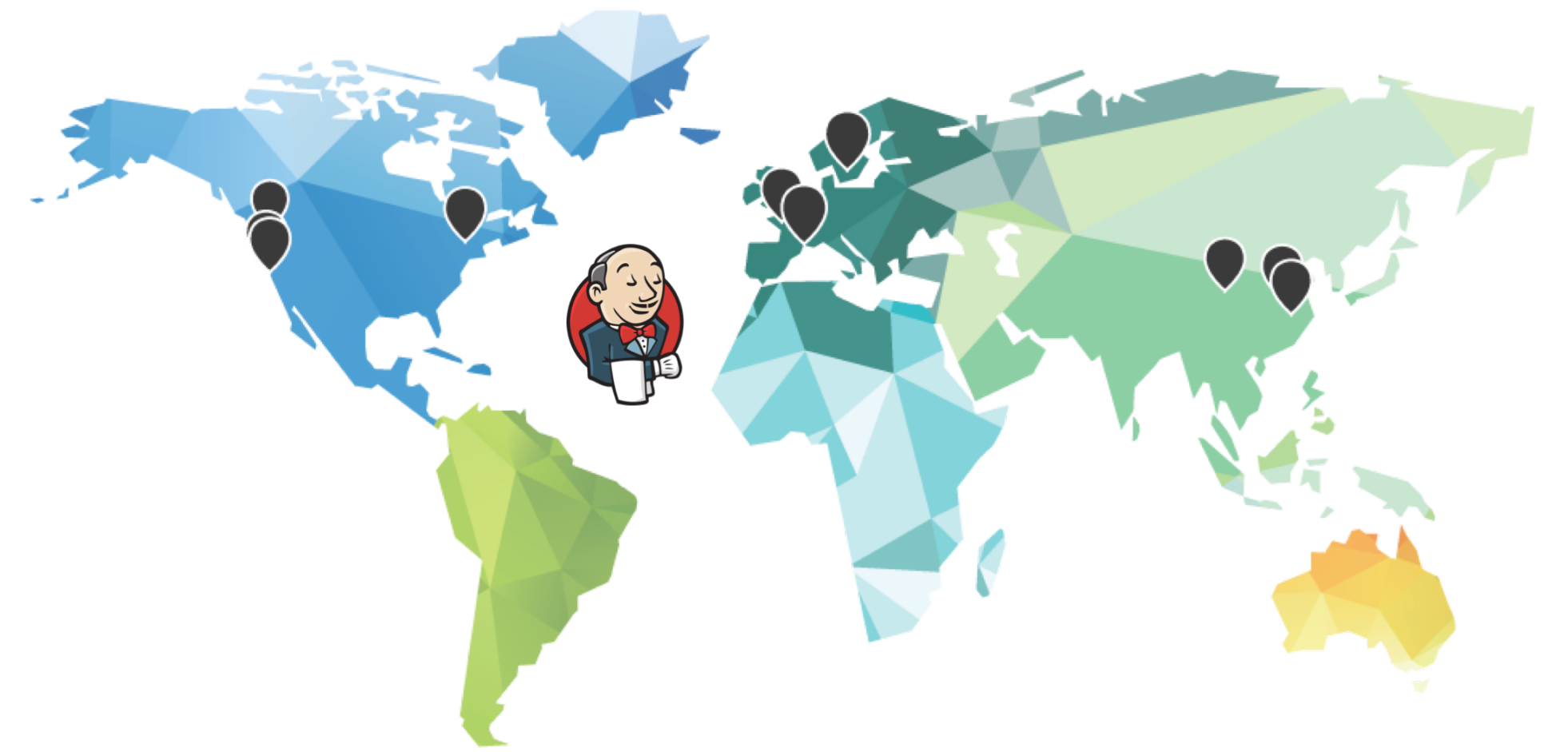
OPNFV Verified Program



- *Announced Feb 6, 2018*
- Demonstrates the readiness and availability of commercial products based on OPNFV
- Uses an open source platform as referent to measure compliance of commercial products—a new and innovative step for the industry
- Automated test suite developed by the OPNFV community
- Initial version tests infrastructure layer of the NFV stack
- Supports both self-testing and third-party lab testing
- Expands market for OPNFV-based infrastructure and applications
- More details at:
 - › Overview Page: <https://www.opnfv.org/verified>
 - › Portal: <https://verified.opnfv.org>

OPNFV Community Hardware Resources: Pharos project

- › Facilitate collaborative testing
- › Provide developers with substantial resources
- › Ensure OPNFV applicability across architectures, environments and vendors
- › Create more robust, interoperable releases
- › It'd be great to welcome new Pharos labs with latest & greatest OCP servers...



<https://www.opnfv.org/developers/pharos>

<https://wiki.opnfv.org/display/pharos/Pharos+Home>

<https://wiki.opnfv.org/display/INF/Lab+as+a+Service>

OPNFV Community Hardware Resources: LaaS

- › A new infrastructure with readily installed scenarios for testing, development, etc.
- › Mix of Intel (38) and ARM (14) based servers + switches
 - › Note: No OCP HW yet
- › More info at <https://wiki.opnfv.org/display/INF/Lab+as+a+Service>

OPNFV Pharos Dashboard

Development Pods

Show 10 entries Search:

Name	Slave Name	Booked by	Booked until	Purpose	Utilization	Status		
IOL Dev Machine hpe-15					0%		Book	Info
IOL Dev Machine hpe-18					0%		Book	Info
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IOL Dev Machine hpe-13					0%		Book	Info
IOL Dev Machine hpe-12		sbergeron	Feb. 11, 2018, 5 a.m.	Fixing Images	6%		Book	Info
IOL Dev Machine hpe-11		mbuil	Feb. 14, 2018, 9 a.m.	Deploying xci and make Fatih happy	18%		Book	Info

Showing 1 to 10 of 20 entries Previous 1 2 Next

<https://labs.opnfv.org/>

OPNFV Plugfest

- › A weeklong event where participants work on the interoperability of OPNFV platform such as deployment/test, network integration, VNF applications, etc.
- › This is a public event and is free of charge
 - › Participation from non-members and service providers in all our Plugfests
 - › Participants are required to sign the [Rules of Engagement](#)
- › Plugfest is held following each major OPNFV release
 - › Brahmaputra Plugfest: Hosted by CableLabs in Louisville, CO
 - › Colorado Plugfest: Hosted by University of New Hampshire-InterOperability Lab in Durham, NH
 - › Danube Plugfest: Hosted by Orange in Chatillon, France
 - › Euphrates Plugfest: Hosted by Intel in Hillsboro, OR

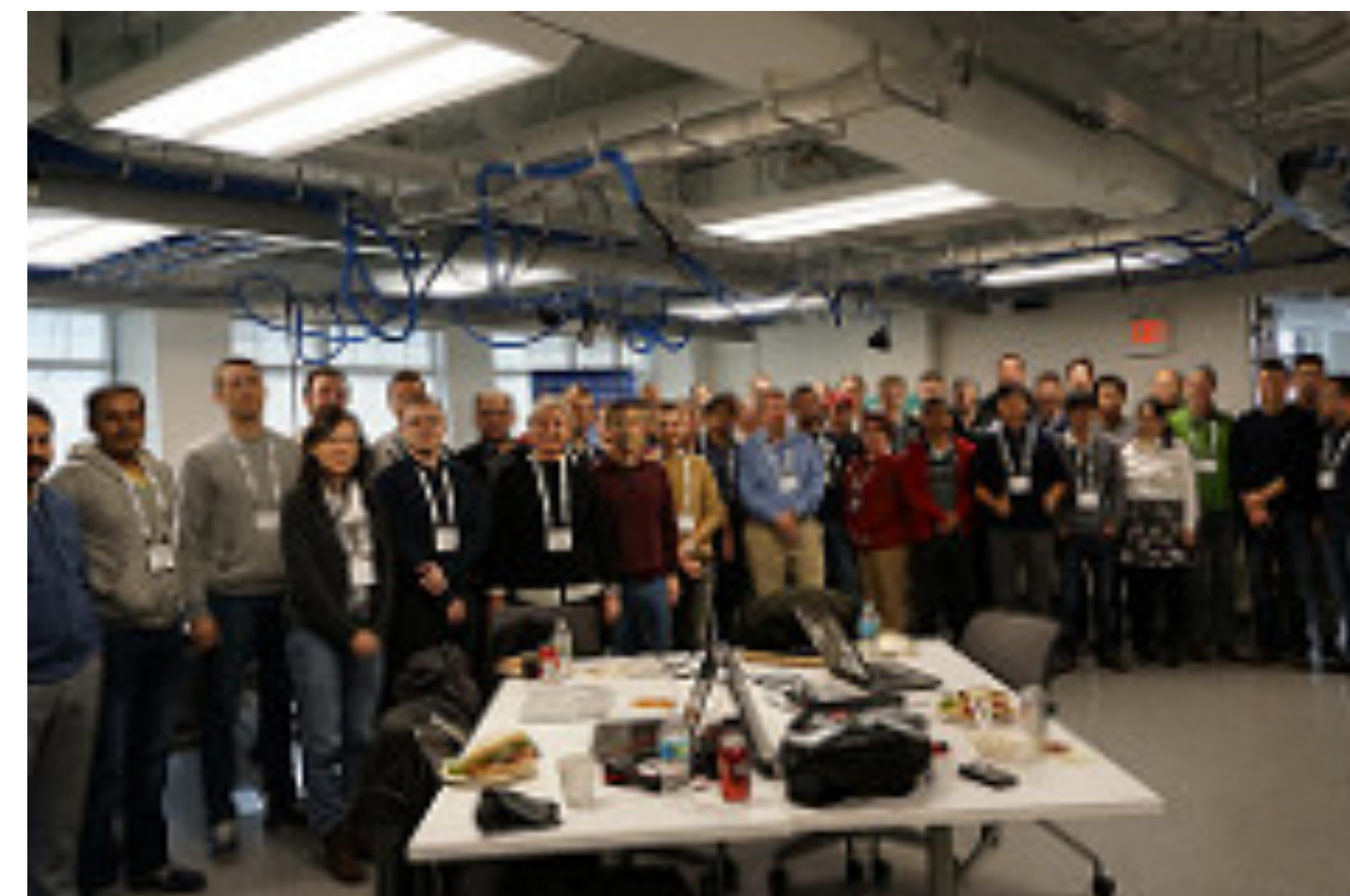
Brahmaputra Plugfest



- › Deployment/Testing of OPNFV on different hardware/installer combinations
- › SDN controller integration with different installers
- › VNF applications running on OPNFV Brahmaputra

Colorado Plugfest

- › Open Compute Project (OCP) based hardware
- › Lenovo OP@L + Nokia Airframe
- › MANO (Open-O) integration with OPNFV
- › Multi-site deployment



Danube Plugfest



- › Continued multi-site testing with an “Edge” server
- › MANO & Full stack testing
- › Stress testing with commercial load/traffic generators

Euphrates Plugfest

- › Container orchestration
- › VNF onboarding
- › Cross Community CI (XCI)
- › Installer teams’ hands-on sessions

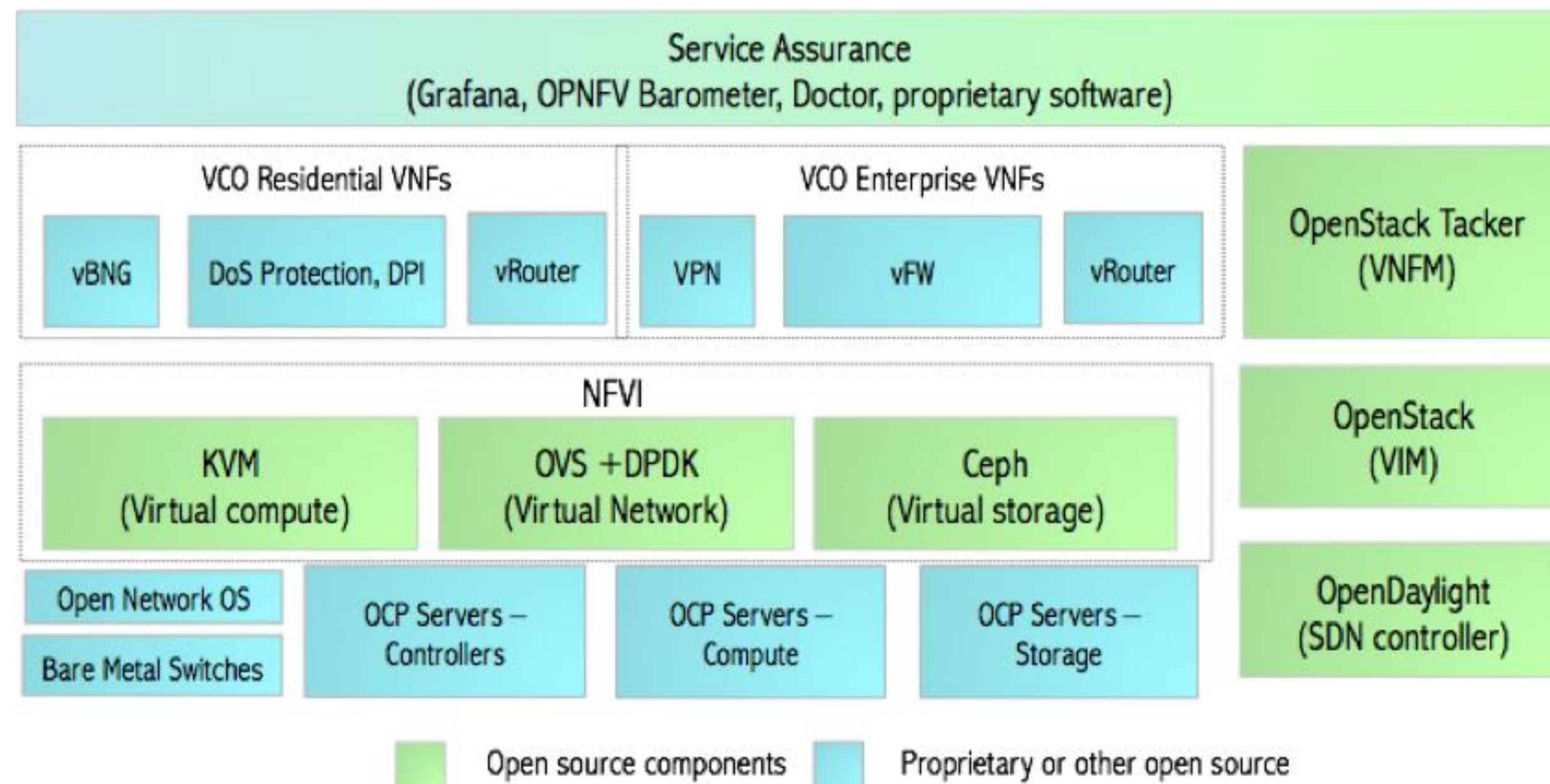


Future Collaboration

- › Fraser Plugfest: A co-located OPNFV Plugfest/ETSI PlugTest on June 4 – 8, 2018 in Sofia Antipolis, France (ETSI campus)
 - › Event info:
 - › Event wiki page: <https://wiki.opnfv.org/display/EVNT/Plugfest+-+Fraser+Release>
 - › Will include details on bi-weekly planning calls, registration info, etc.
 - › Testing the latest OPNFV Fraser release
 - › Contributing new test cases for ETSI
 - › Evolution of XCI, testing projects, etc.
 - › We'd like to work with more OCP community members and OCP networking products at future Plugfests
 - › OCP products in past events were limited to servers
 - › Equipment can either be on-site or remote

Another Collaboration Opportunity

- › Virtual Central Office (VCO) demo
 - › OPNFV brought Network Functions Virtualization (NFV) and software defined networking (SDN) technologies to the Central Office (CO) with OpenDaylight for residential and enterprise services
 - › Whitepaper, brief, videos from the first demo available here: <https://www.opnfv.org/resources/virtual-central-office>
 - › VCO demo 2.0 w/ mobile in progress: <https://wiki.opnfv.org/display/OSDD/VCO+Demo+2.0+Home>
 - › Exploring options for connecting with and/or replicating on all-OCP lab



KEY OPEN SOURCE PROJECTS:

- Open Compute Platform (OCP)
- OpenDaylight
- OPNFV
- OpenStack

RAPID DELIVERY OF DEMO:

- 28 volunteers
- 10 companies
- 3 weeks

DEMOS CREATED:

- Residential VCO
- Enterprise VCO

SHOWN AT OPNFV SUMMIT:

- Keynote stage Demo
- Booth Demo

Resources

- › Plugfest wiki page: <https://wiki.opnfv.org/display/EVNT/Plugfest>
- › Plufest reports:
 - › https://www.opnfv.org/wp-content/uploads/sites/12/2016/11/inaugural_opnfv_plugfest_report.pdf
 - › https://www.opnfv.org/wp-content/uploads/sites/12/2017/02/OPNFV_Plugfest_II_Report_FINAL.pdf
 - › https://www.opnfv.org/wp-content/uploads/sites/12/2016/11/OPNFV_Plugfest_III_FINAL.pdf
 - › https://www.opnfv.org/wp-content/uploads/sites/12/2018/02/OPNFV_Plugfest_December2017_FINAL.pdf
- › Plugfest Rules of Engagement: https://wiki.opnfv.org/download/attachments/2925678/plugfest_opnfv_plugfest_rules_of_engagement_02-23-2016.pdf?version=1&modificationDate=1458848730000&api=v2



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