



# OPNFV

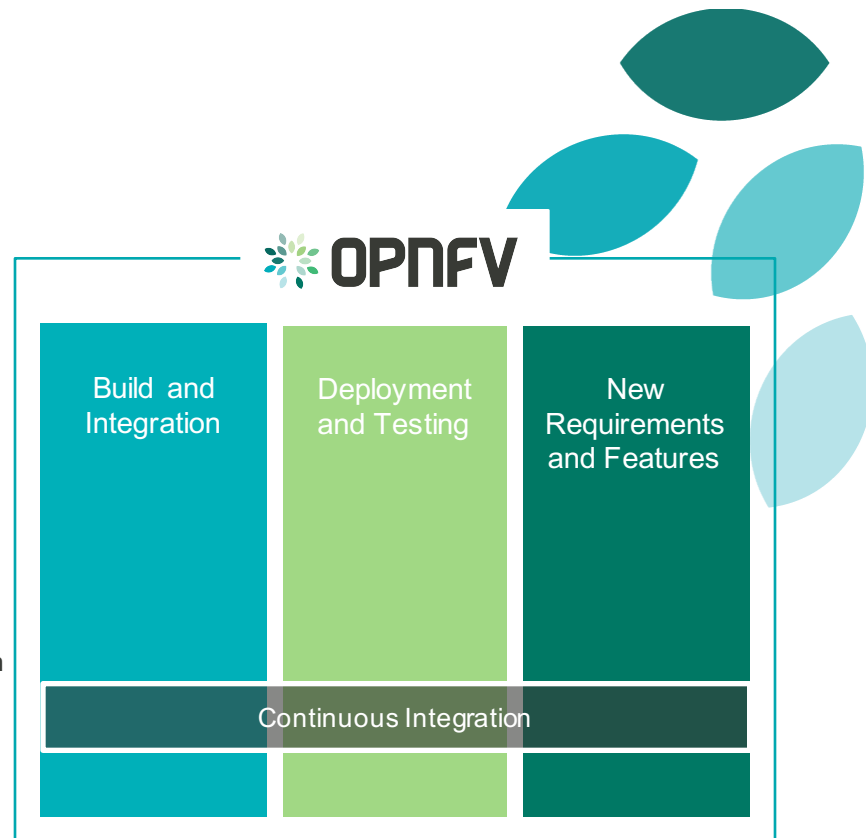
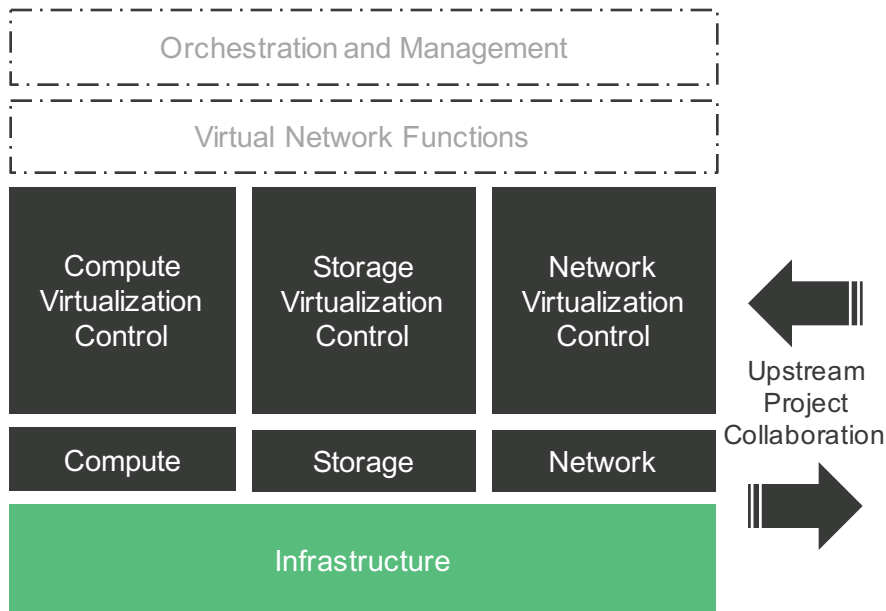
## OPNFV and Brahma Putra Release Update

Heather Kirksey, Director,  
OPNFV



OPNFV is a carrier-grade, integrated, open source platform to accelerate the introduction of new NFV products and services.

# OPNFV Platform Overview





# OPNFV

BRAHMAPUTRA

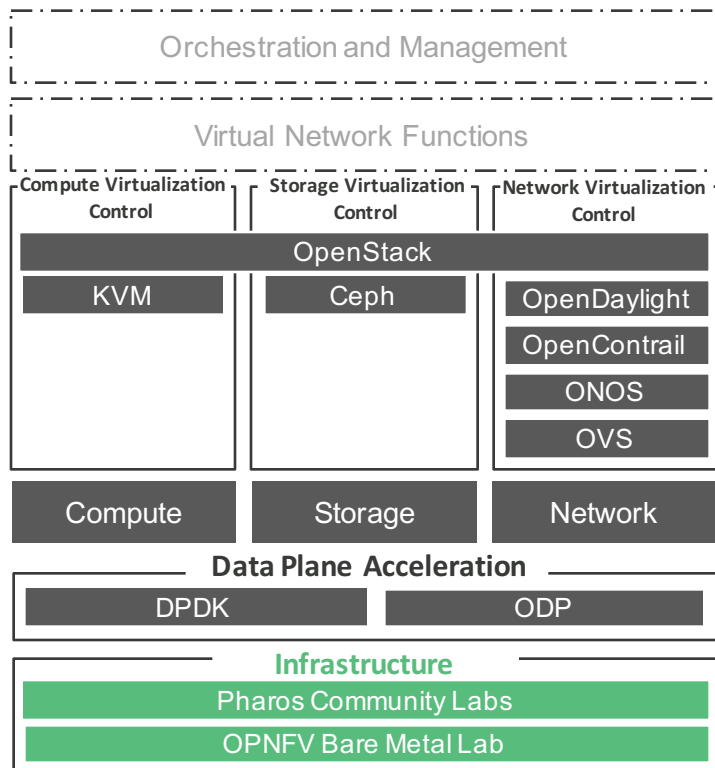


# Brahmaputra – Marching toward Maturity

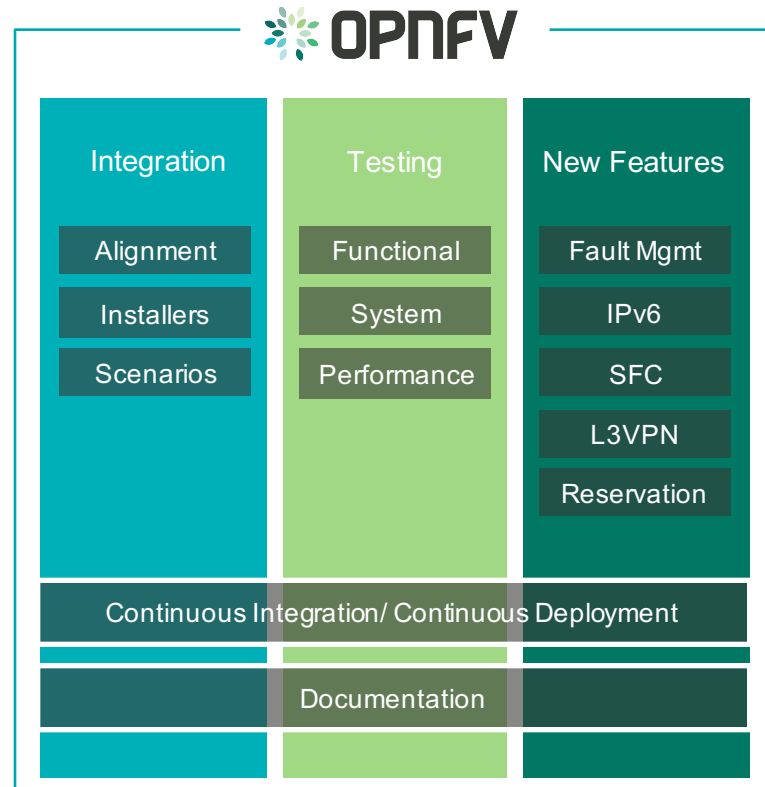
- Massively Parallel Simultaneous Release Process
  - 35 projects, 140+ developers
  - End-to-end feature realization
  - Incremental monthly release drops
- Scenarios
  - Significant increase in components tested and component and features combinations



# OPNFV Brahma Putra Overview



←  
Upstream  
Project  
Collaboration:  
→

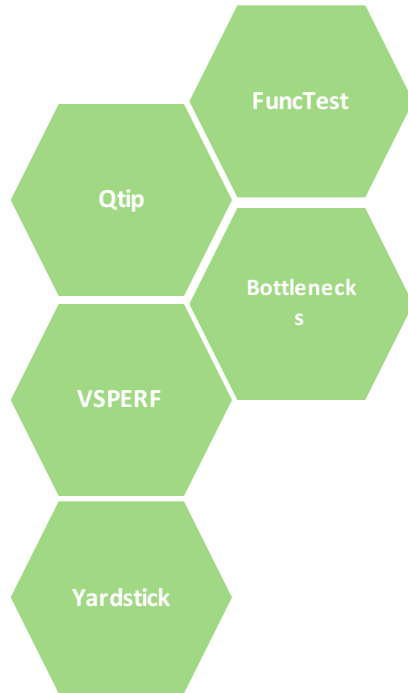


# Collaborative Development Working Upstream

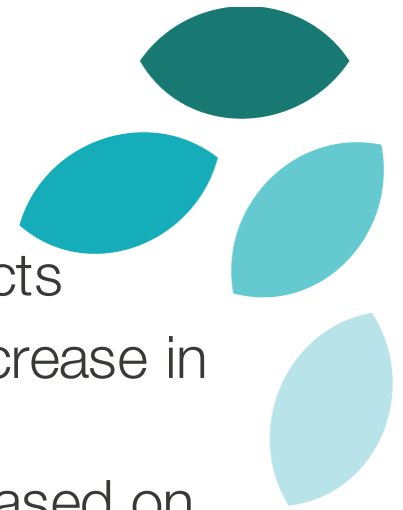
- OPNFV Requirements Gathering and Gap Analysis
- Upstream and/or OPNFV Code Development
- New releases of Upstream Components Available
- OPNFV Integration, Validation, and Automation work
  - Install/Deploy
  - CI/CD and scenario definitions
  - Testing (Functional, System, Performance)



# Testing Enhancements

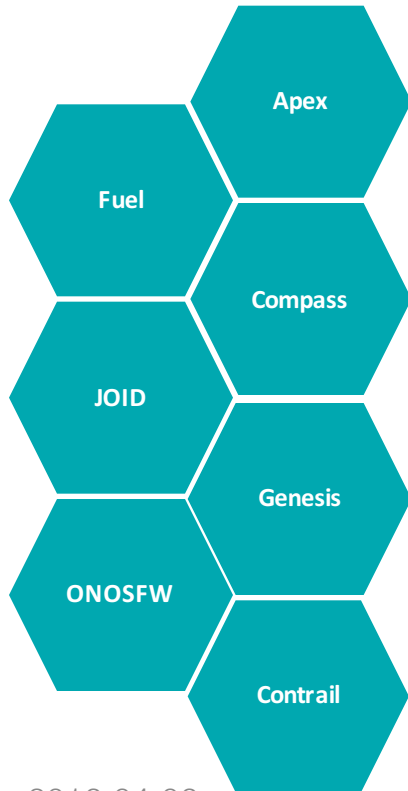


- Fivefold increase in testing projects
- Functest: component testing, increase in number and types of tests
- Yardstick: System level testing based on ETSI TST 001 spec
- VSPerf: virtual switch characterization
- Qtip: Bottom-up system characterization
- Bottlenecks: bottleneck focused platform testing framework





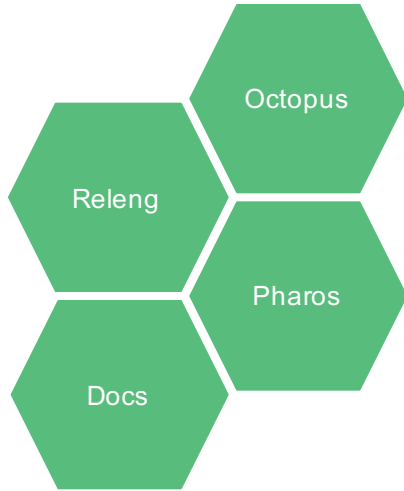
# Increased Breadth in Deployment and Integration



- Breadth of Open Source Innovation
- Additional install/deploy tools
- OpenStack
- Additional SDN Controllers + native Neutron networking
- 2 -> 20+ scenarios supported
  - Installer, SDN, bare metal vs. virtualized, features, HA, features, framework options

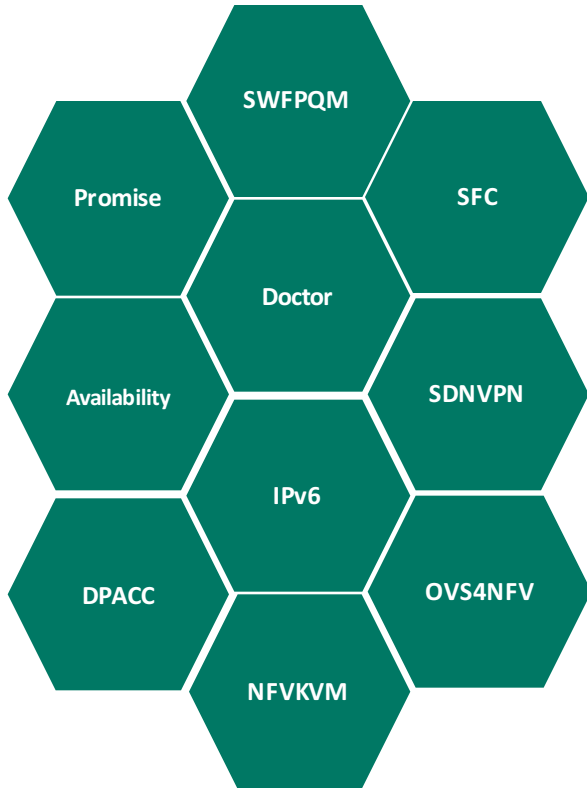
2016-04-06

# Infrastructure and Testing Environments



- Advances in Pharos governance and participation
  - Pharos labs participating in release activities + development
  - First Arm-based lab joined Pharos
- Significant automation work on Jenkins-based CI/CD toolchain
- Additional documentation and documentation automation

# Carrier Grade Feature Enhancements



- Significant Upstream Collaboration
- Fault Management
- SFC
- L3VPN
- IPv6
- Resource Reservation
- Performance Enhancements throughout the platform (Data plane, KVM, OVS)

# What's Next

- Much much much more of the same
- Plugfest!!
  - Join the Dovetail project and contribute
- Testing and Infra Improvements
  - SDN Controller & Storage Performance, Policy testing
- Full ARM Support
- Continued advances in carrier grade features, including L2VPN, Policy Mgmt, Security, Multisite, Upgrades, etc.
- Container Support
- MANO
- Forwarding and Data Plane Improvements



Now It's  
Time to  
Join the  
Party



# Resources to help you get started

- Website: (<https://www.opnfv.org>)
- Wiki's: (<https://wiki.opnfv.org/>)
  - Developer on-boarding: <https://wiki.opnfv.org/developer/on-boarding>
  - Releases: <https://wiki.opnfv.org/releases>
  - Approved projects: [https://wiki.opnfv.org/approved\\_projects](https://wiki.opnfv.org/approved_projects)
- Mailing lists: ([lists.opnfv.org](https://lists.opnfv.org))
  - [opnfv-marketing-committee@lists.opnfv.org](mailto:opnfv-marketing-committee@lists.opnfv.org): OPNFV Marketing Committee (Members Only)
  - [opnfv-tech-discuss@lists.opnfv.org](mailto:opnfv-tech-discuss@lists.opnfv.org): general technical discussions
  - [opnfv-tsc@lists.opnfv.org](mailto:opnfv-tsc@lists.opnfv.org): discussions with the Technical Steering Committee (TSC)
  - [opnfv-users@lists.opnfv.org](mailto:opnfv-users@lists.opnfv.org): OPNFV community support



Questions?