# Driving Business Transformation Through Converged Platform and Services

Anant Deshmukh Staff Engineer, VMware India



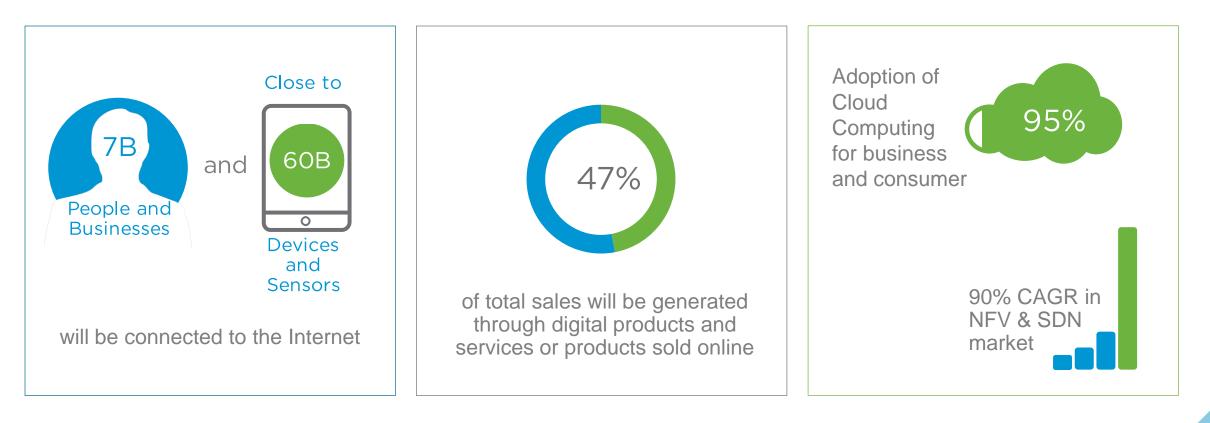
© 2016 VMware Inc. All rights reserved.

### **2020 – A World in Transformation**

New Connected Ecosystem

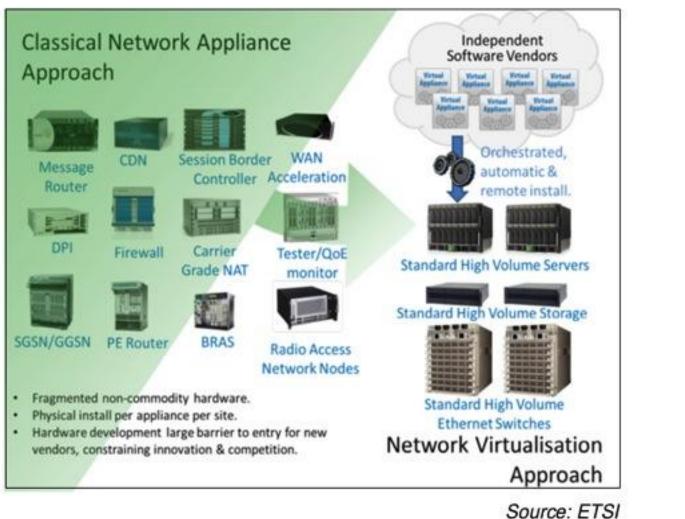
New Business Models

#### New Networks & Clouds



#### 

# NFV



### **Streamlining CapEX**

- Minimize fixed function / purpose built platforms
- New virtualization based infrastructure hosting multiple "multi-vendor" services
- Equipment can be reused, and repurposed for new service

### Faster Service Delivery (Time-to-Market)

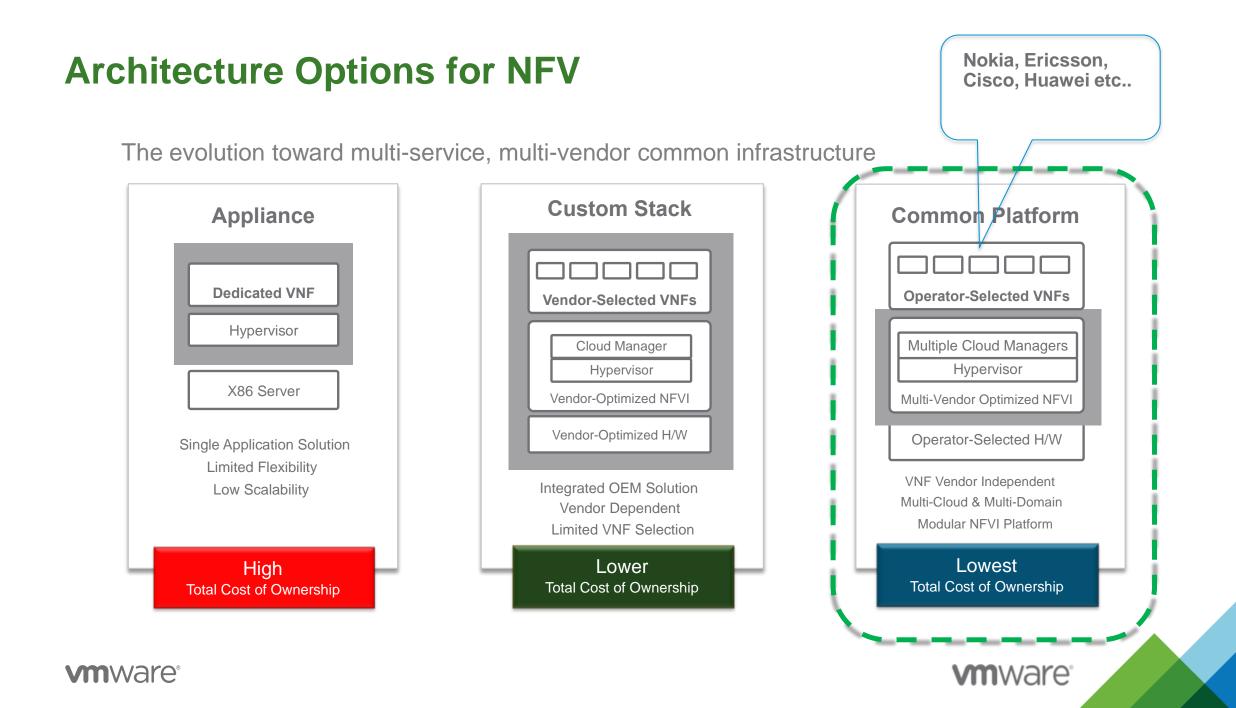
- Services (applications) centric network

### Scalability

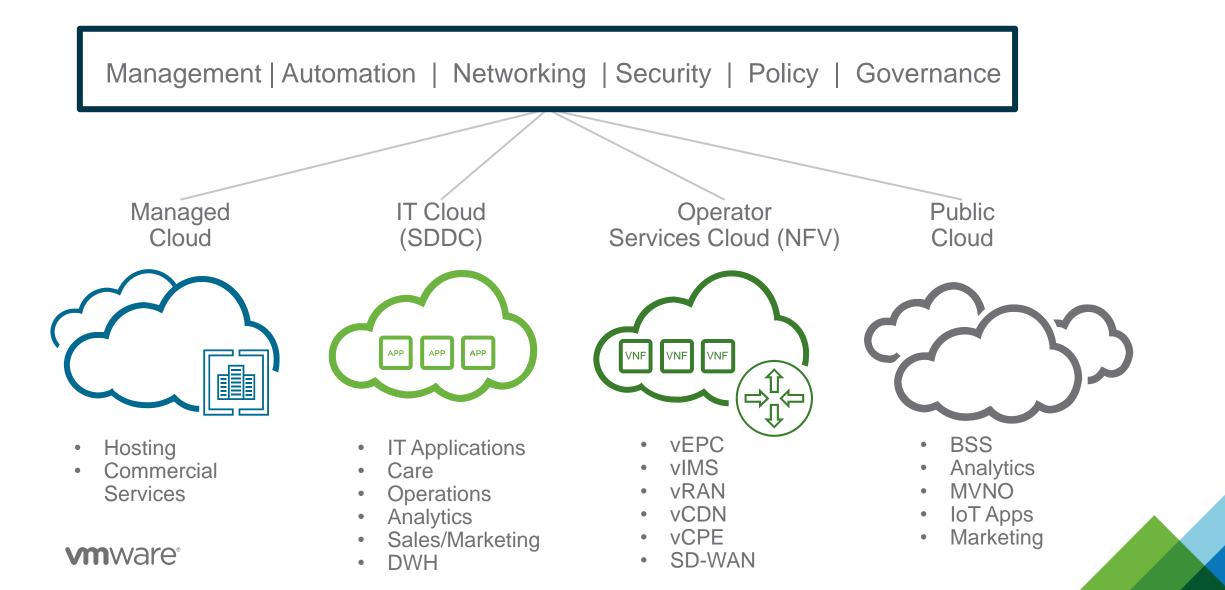
- Simpler to scale up / out
- Lower costs versus purchasing fixed function platforms

Proprietary Hardware and Software Appliance  $\rightarrow$  Virtual Network Functions (VNF)

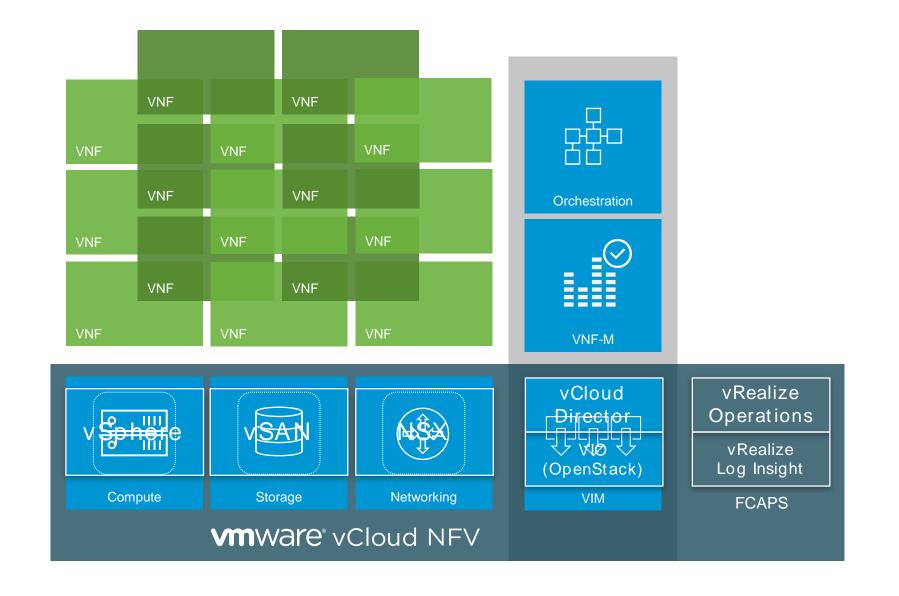
**M**Ware<sup>®</sup>



### VMware vision for Cross-Cloud



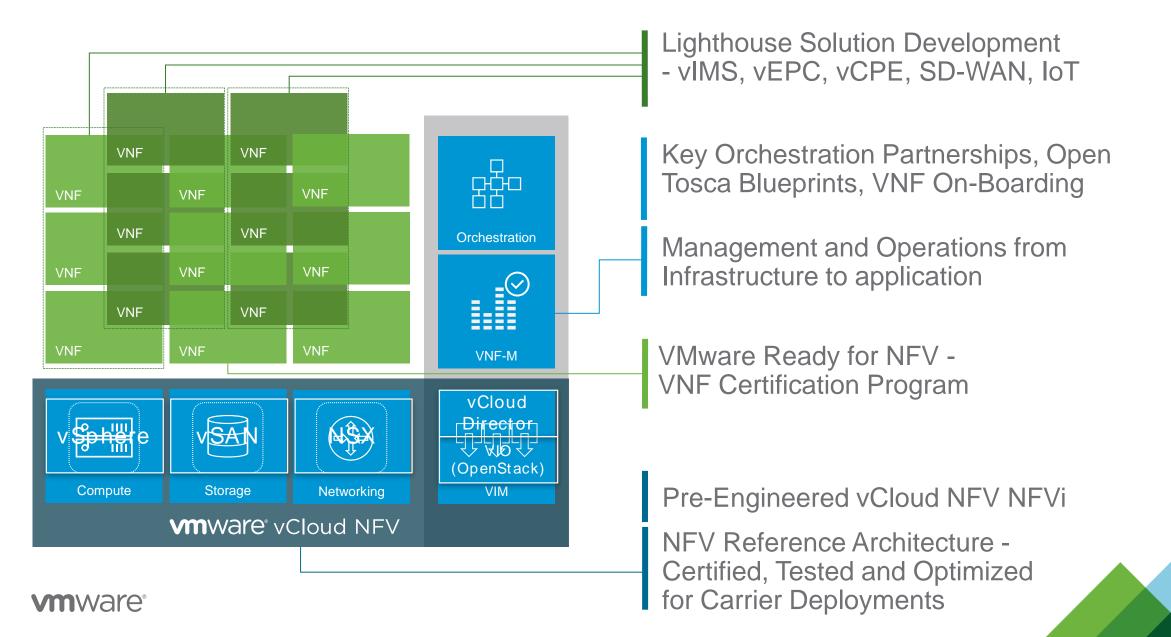
### **VMware NFV Portfolio**







### VMware vCloud NFV – Key Investments



# **VMware NFV Footprint**

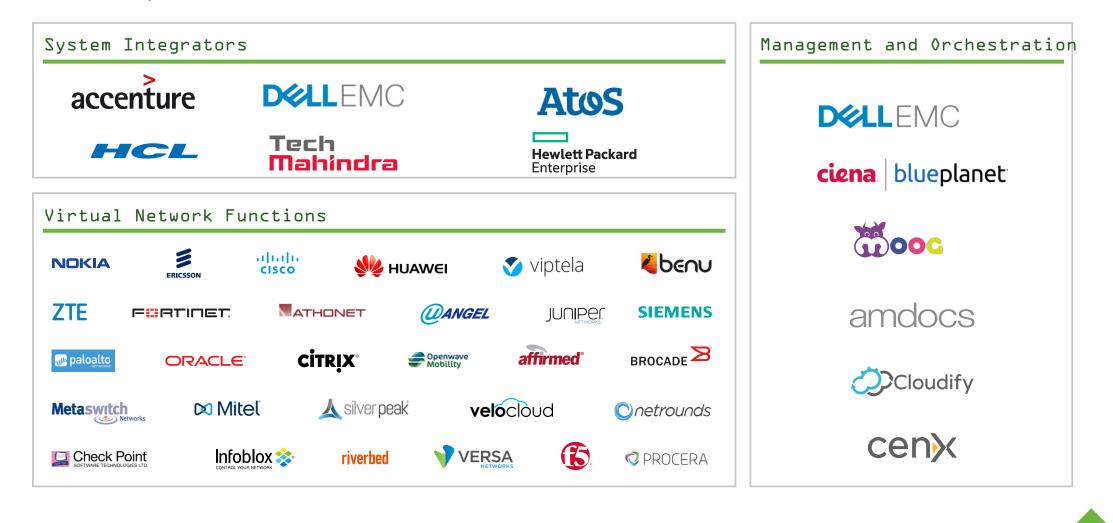
45+



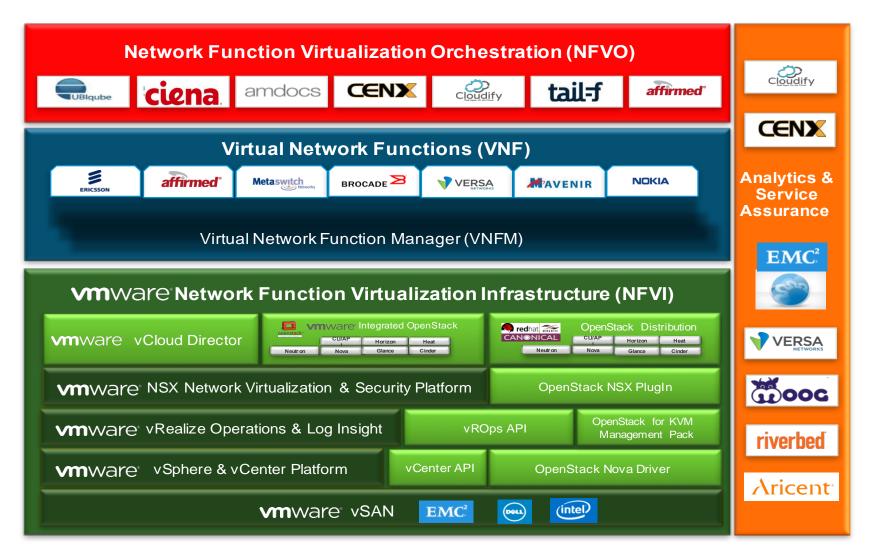
**M**ware<sup>®</sup>

# **A World Class SP Partner Ecosystem**

A Rich Ecosystem Enables Innovation, Time to Market & Customization.

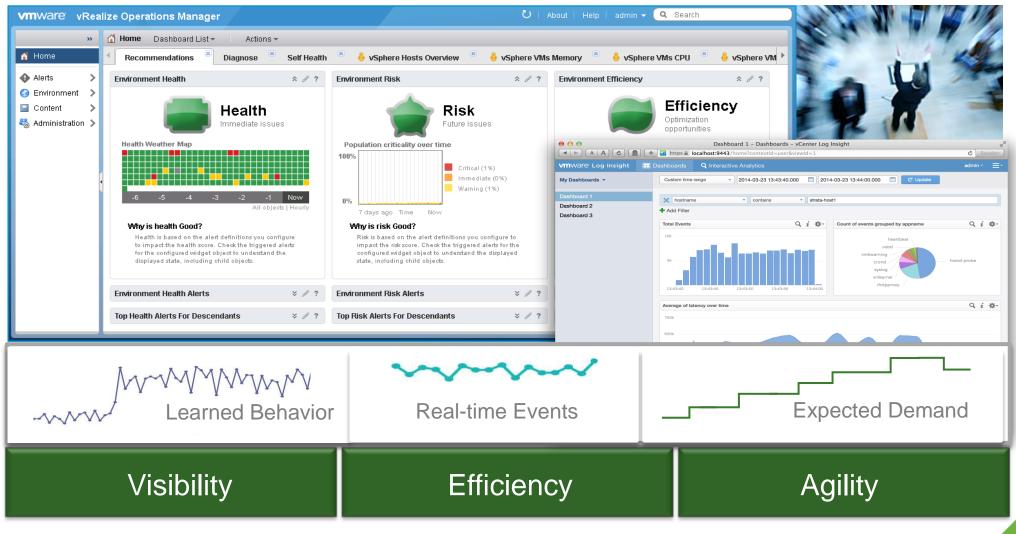


# A Modular Platform Approach Modularity Enables Service Providers to Build their Own Custom Stack!



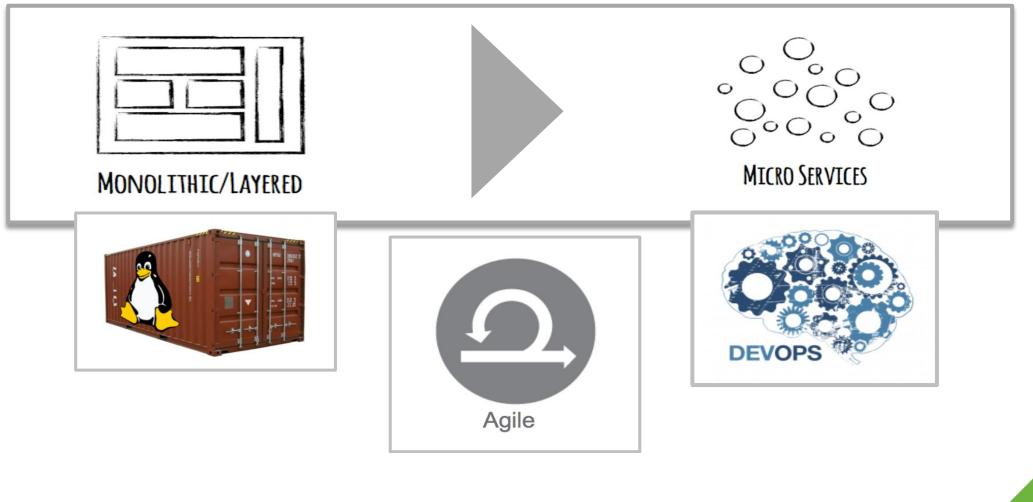
# A Capability Rich & Mature Operations Foundation

The Single Most Critical Enabler for Moving NFV into Production Service Deployment.



# **Future-Proof for Continuous Evolution**

Continuous Innovation & Integration to Achieve Rapid TTM & Cost Advantages.



# Vodafone

Large Multi-Vendor Service Provider Deployment

- Common Multivendor Telco Cloud Platform.
- Telco Strengths + Cloud Benefits.
- VoLTE Services

Iware

- vSAN, vSphere, VCNS, vRO, vCD
- Profile: MultiVendor VNF & Scale

#### Why Did Vodafone Choose VMware?

- Proven Platform
- Rich Capabilities
- Broad & Diverse VNF Ecosystem



Vodafone has been able to combine the best Virtual Network Functions (VNFs) from different vendors on a single platform, and to bring high-value services to market more quickly."

Rui Frazao, Director Network Engineering, Vodafone Germany

- 10 OpCos in Production.
- 4 OpCos in Late Field Trials.
- ~ 10 Million Virtual Service Subscribers



### Ooredoo

"Unify" ONE Cloud Convergence

#### Overview

- Converged IT and Operator Services
- VoLTE Services
- vSAN, vSphere, vROI, NSX, vCD
- Huawei IMS Services
- Initial Deployment: Kuwait & Qatar
- 6 New Countries in 2016
- vSphere, NSX, vCD & SRM

### Reasons for choosing VMware

Fast Deployment

Service Innovation

Common Multi-Vendor Platform

00000000

"The speed at which we have been able to trial our unified cloud and onboard the VoLTE service functions into our IT network has exceeded our expectations. We did a joint R&D project that took only two months to complete, and we finalized the development of our vIMS product that can be deployed in a production, commodity infrastructure, automatically in only 3.5 hours."

Testimonials

Mijbil Al-Ayoub Director, Corporate Comms, Ooredoo Kuwait

CONFIDENTIAL

### **Join Experience**

"Third" generation Wireless and Wireline Telecom Operator

#### The Challenge

#### Testimonial

- Newcomer on the mobile telecom market, offering both Telecom and IT Cloud services
- JOIN Experience's ambition is to service 50,000 customers in the short term and to grow to a 200,000+ customer base by 2018.
- Enter the M2M market and provide services to other MVNO's Unified
- Network and IT Service Catalog and Policy-based governance

"We were able to define the best possible infrastructure that would give us the means to provide robust and flexible services and to foster a flexible growth. This is where VMware really comes into play and which makes us different, putting all the intelligence in the software layer guarantees us more flexibility."

Michael Mossal CDO, JOIN Experience

#### Results

IMS Platform fully relying on VMware Integrated OpenStack (VIO) and NSX Rollout of IMS Virtual Machines in hours instead of months through VMware automation and services delivery Launch of all forms of new services (VoIP, Video Conferencing, VoD) based on virtual IMS



VIIIVVAI C

CONFIDENTIAL

CONFIDENTIAL

### **Customer Momentum and Partnerships**



# VMW NFV: Removing Key Barriers for Business Transformation



17

# **Thank You**

# www.vmware.com/go/nfv

**vm**ware<sup>®</sup>