



# Role of the Telco Ecosystem in Red Hat's Market Strategy

Mark Wohlfarth  
Global Telecom Sales, Network Ecosystem  
November 1, 2017

# UNLOCKING THE NETWORK TO COMPETE WITH FANG

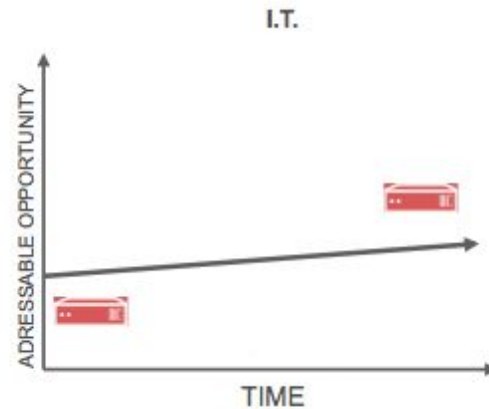
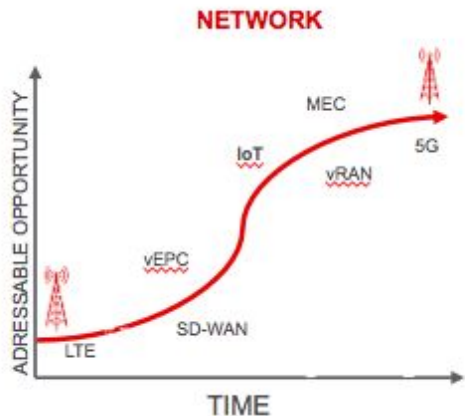
## FANG: Facebook, Amazon, Netflix and Google

- These four companies are light years ahead in the use of open source technology
  - Open & Collaborative
  - Fast Paced + Modular
  - Decentralized
  - User-Driven

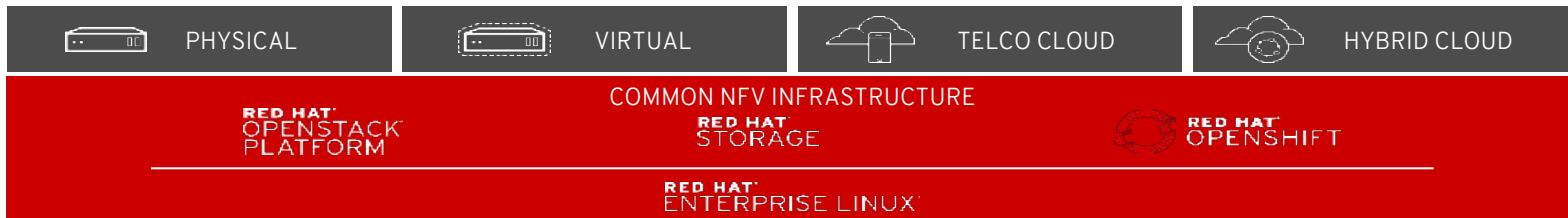


- They collectively realized the inherent advantages of self-development of open source technology
- In one leap, Red Hat will allow mobile operators to enjoy the same technology advantages, on an equal open-source footing

# RETOOLING THE TELCO NETWORK INFRASTRUCTURE



←----- ARTIFICIAL INTELLIGENCE -----→

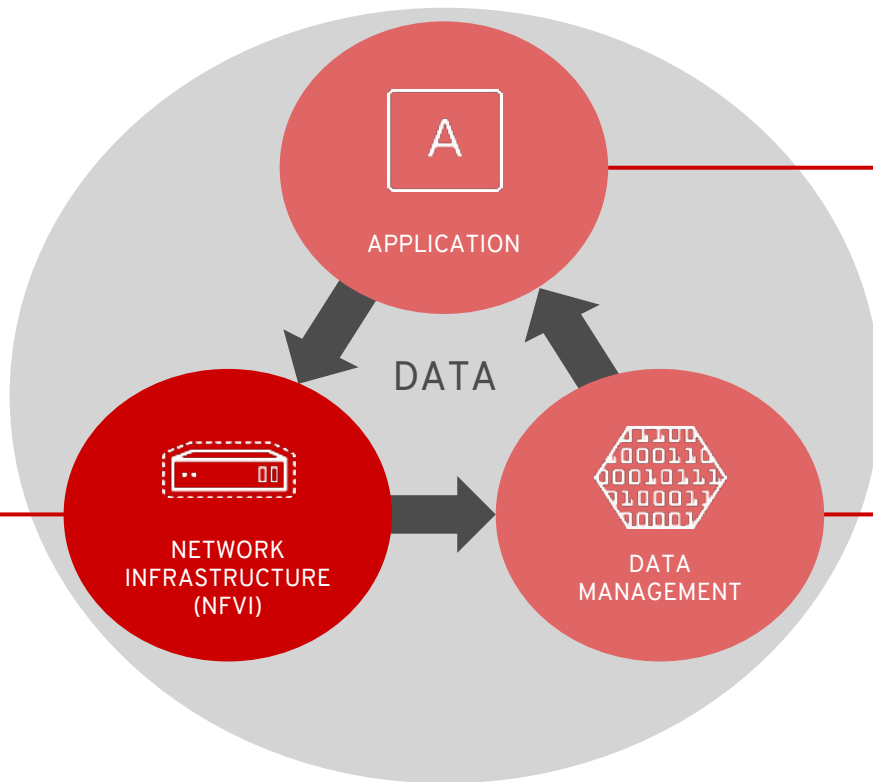


# LINUX IS THE FOUNDATION OF THE MODERN TELCO NETWORK

OPEN SOURCE TECHNOLOGIES

## NETWORK INFRASTRUCTURE (NFVi) PLATFORM

- **Transports** data
- **Generates** data
- **Transforms** network from mainframe to cloud era
- **Delivers** ROI through automation and reduced vendor lock-in



## APPLICATION PLATFORM

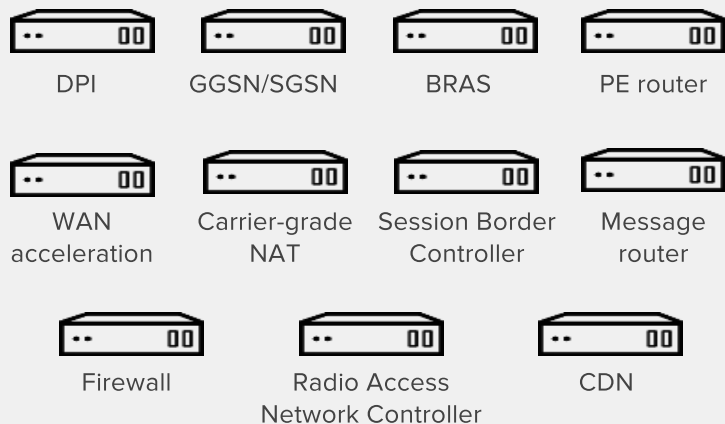
- **Consumes** data from data platform
- **Delivers** data via the infrastructure platform
- **Supports** DevOps and containers

## DATA MANAGEMENT PLATFORM

- **Collects** data from network
- **Transforms, distributes,** and **stores** data for applications

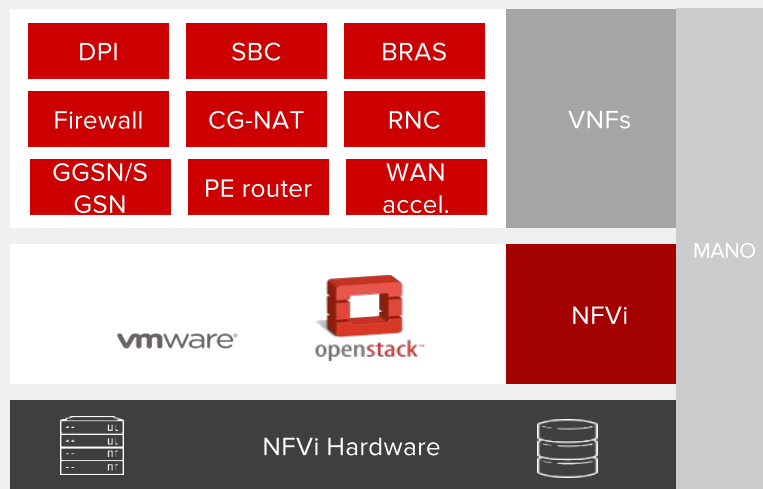
# NFV: MINIMIZING HARDWARE DEPENDENCIES FOR NETWORK SIMPLICITY AND FLEXIBILITY

## TRADITIONAL NETWORK APPLIANCE APPROACH

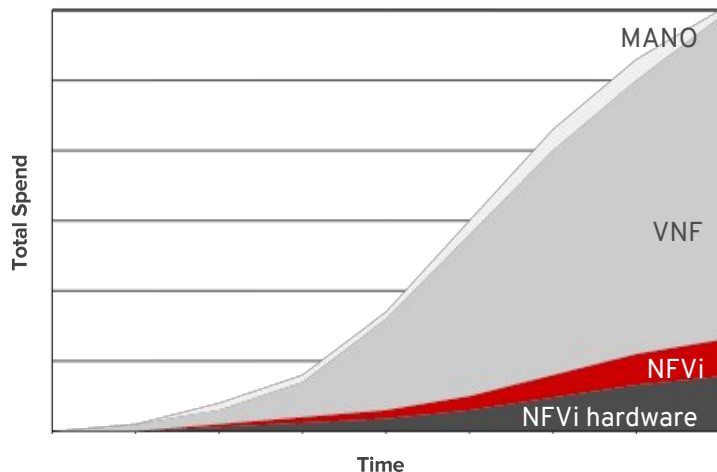


- Network functions based on specific hardware/software
- Fragmented non-commodity hardware
- One physical node per role

## VIRTUALIZED NETWORK APPLIANCE APPROACH

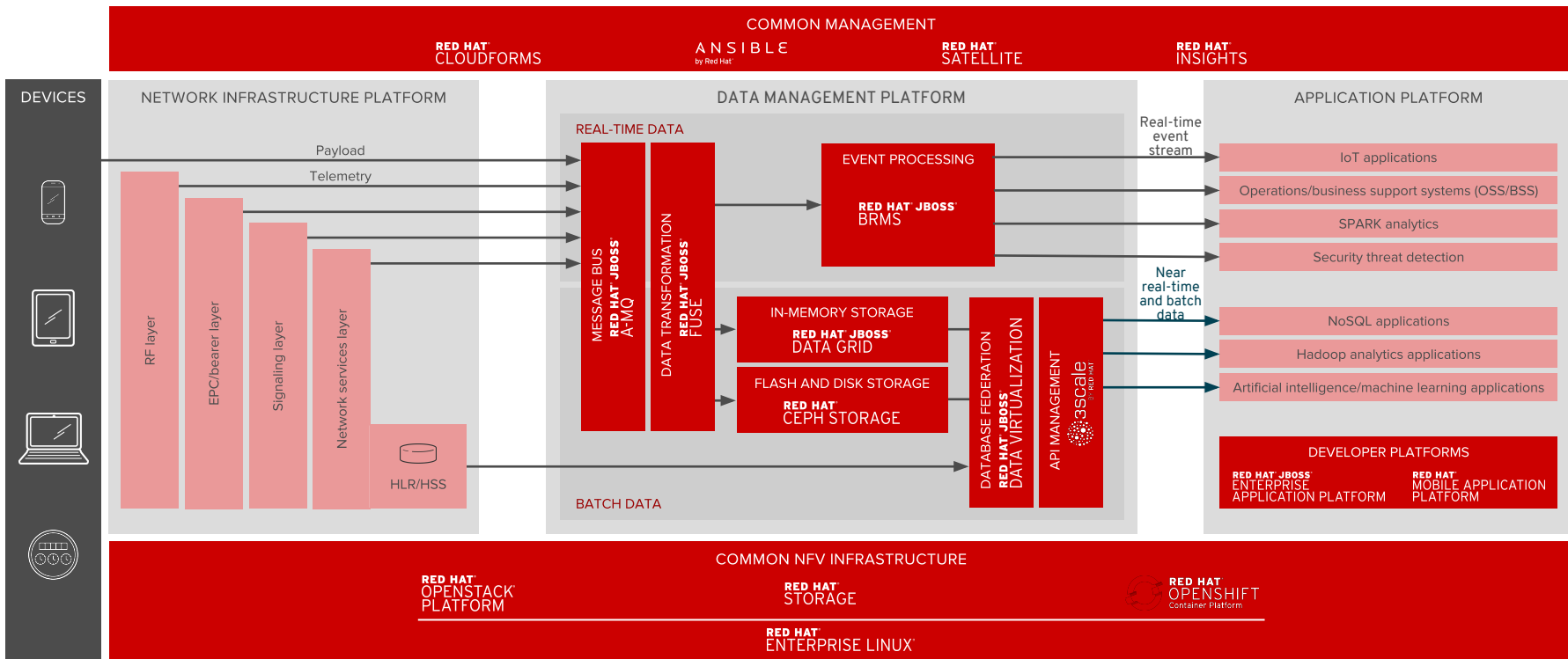


# VNF SPEND IS MUCH LARGER THAN NFVI SPEND



- VNFs are the biggest portion of the spend, particularly as implementations scale
- HW Infrastructure spend will continue to be a sizable portion of the total but not growing as fast as total
- For SW Infrastructure, SDN was the initial focus, now moving to NFVI
  - MANO will become increasingly important, but all SW Infrastructure spend is secondary to VNFs, which drive overall ROI

# HORIZONTAL PLATFORM WITH A SINGLE, INTEGRATED INFRASTRUCTURE



With Mobile Edge Computing and 5G/C-RAN, you can distribute this to hundreds of sites at the network edge. Common infrastructure is an imperative!

# FIVE POINT STRATEGY

**Deep Customer Engagement**



Account Planning - Executive Engagement & Sponsorship -  
Industry Engagement & Sponsorship - Executive Roundtables  
- Telco Market Program Office (ABM) - Innovation Labs

**Leveraged Partner Ecosystem**



NEP - OEM - GSI - ISV

**Solutions Oriented GTM**



Automation - Storage -  
Cloud Platform - Microservices

**Services Led Opportunities**



Telco Practice - Partner Engineering

**Operational Excellence**



People - Metrics - Alignment - RFX

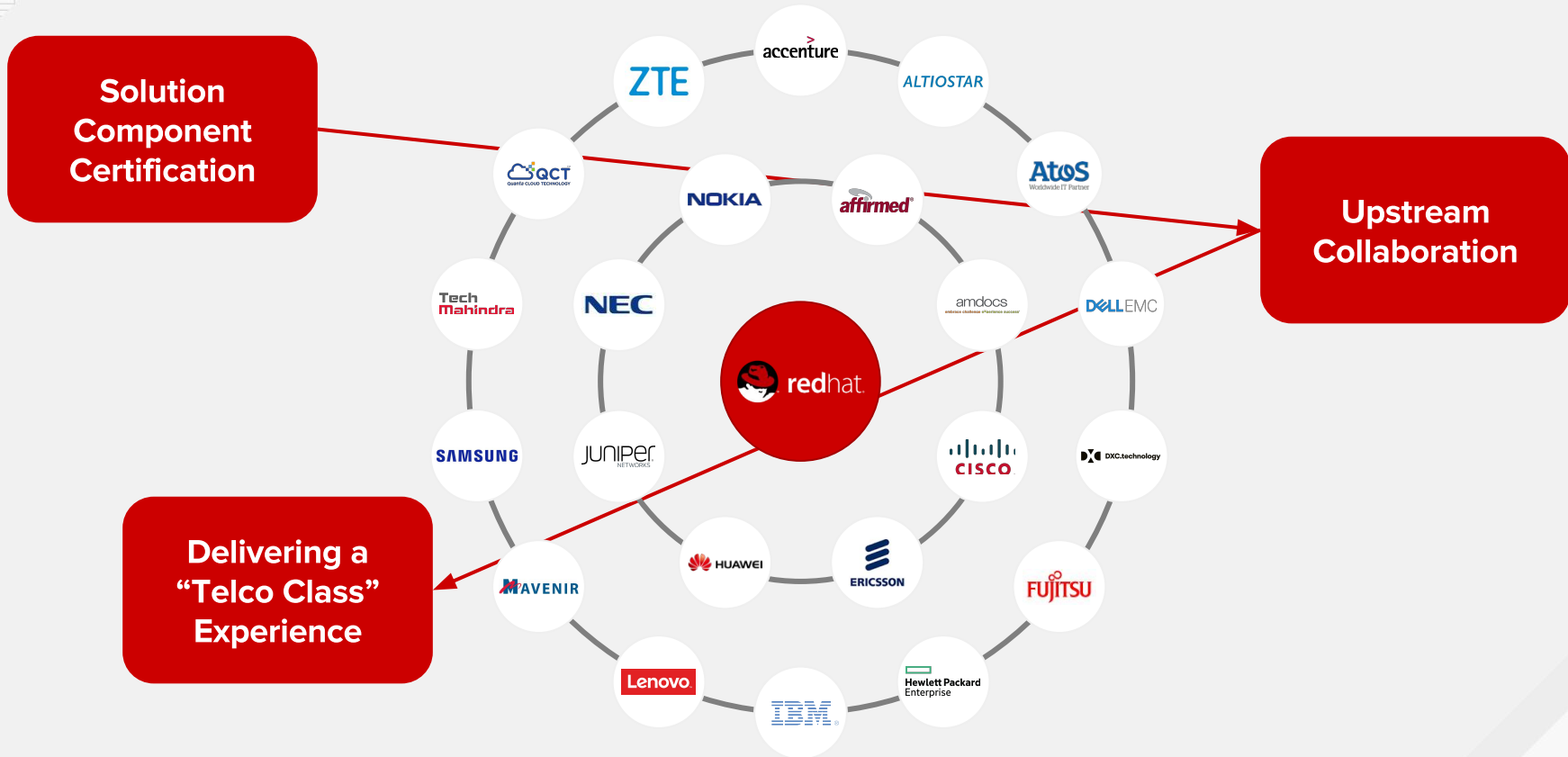


# TELCO ECOSYSTEM

31 partner workloads Validated or Certified  
36 additional partner workloads in process



# RED HAT TELCO ECOSYSTEM



# SUMMARY

- The telco industry is on an exciting journey of network transformation
- Red Hat is the leader in open source -- we know how to provide rapid and sustainable innovation through our upstream first approach
- The ecosystem is evolving and combining in new ways to deliver a telco-class experience in a software-defined world
- Like the basic tenet of open source, there is power in “us”, so join us!



**THANK YOU!**

**QUESTIONS?**

Mark Wohlfarth  
November 2017