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# The Network Function Virtualization (NFV) Revolution

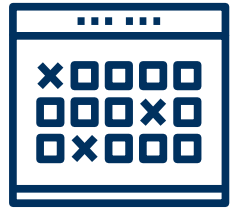
**Oren Marmur**

Head of NFV Product Portfolio

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# Lessons in Efficiency and Agility

For an average service provider the time it takes to launch a new service is about



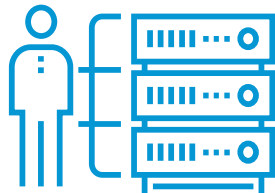
**9–18** months

Amazon service-launch-frequency is



**11** seconds

For an average service provider the number of servers per admin



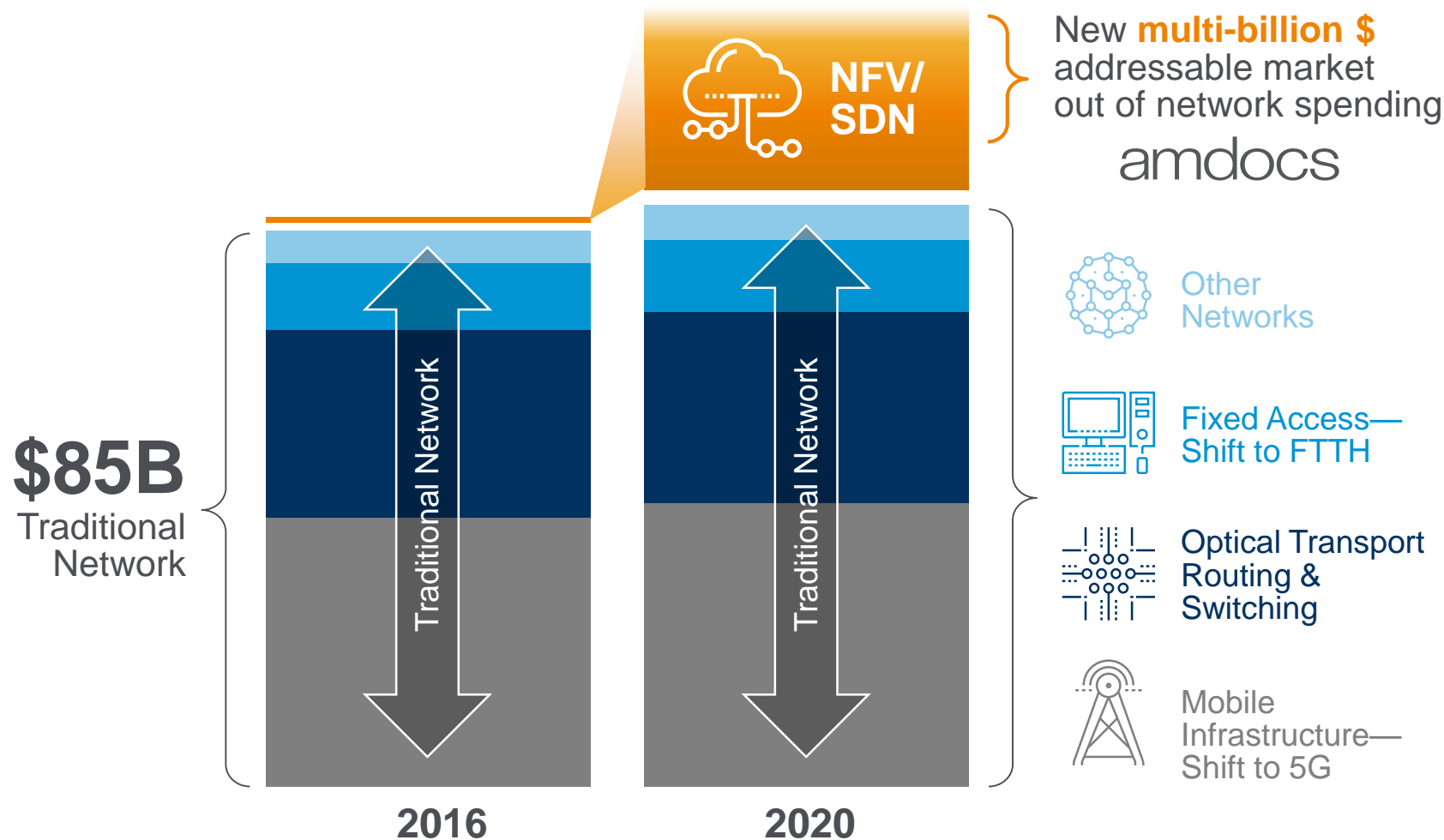
**<100** servers

Number of servers per admin at cloud data center



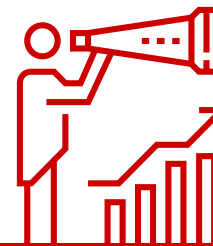
**~15,000**

# CAPEX Shift from Traditional Network Infrastructure to NFV/SDN



“NFV has become a key part of a network operator evolution strategies”

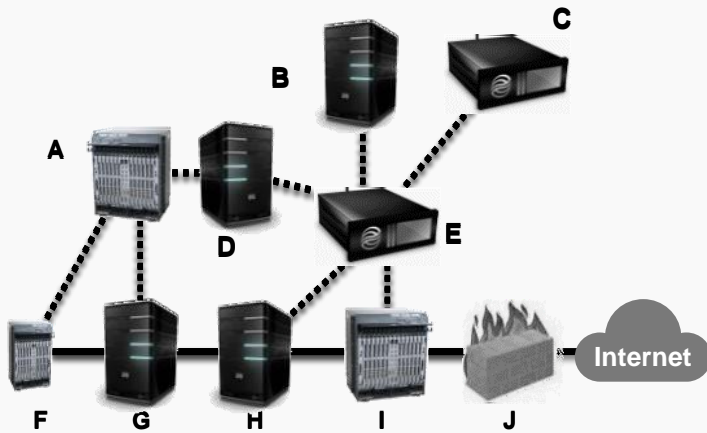
“Beyond 2020, we expect NFV growth as a percentage of total capex to be more explosive”



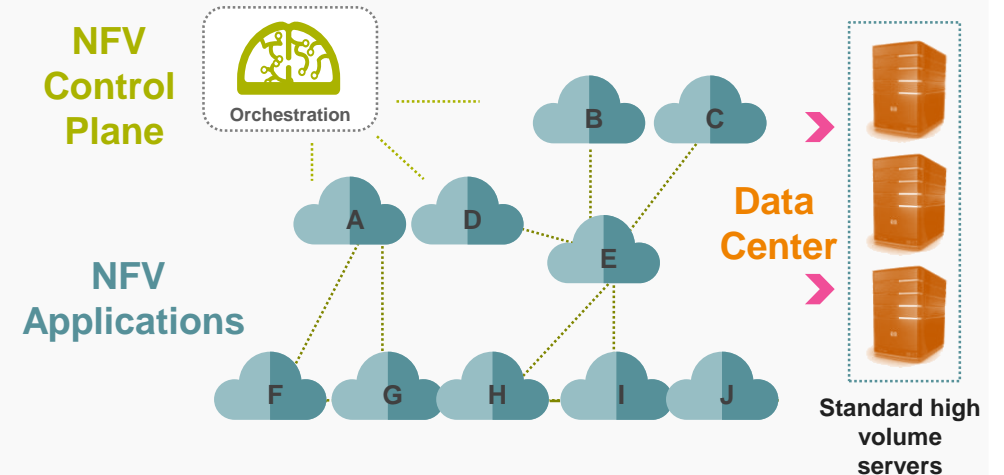
Source: Gartner; Forecast Analysis: Communications Service Provider Operational Technology, Worldwide, 3Q16 Update; Sept. 2016

# Network Functions Virtualization—What Is It All About?

## Physical Network



## Future Virtual Network



### Service Agility

- Deliver services in **seconds/minutes**—NOT weeks/months
- Design and launch new services in **weeks**—NOT 9–18 months



### Operational Efficiency

- On-demand service selection and delivery
- Automation of network operations



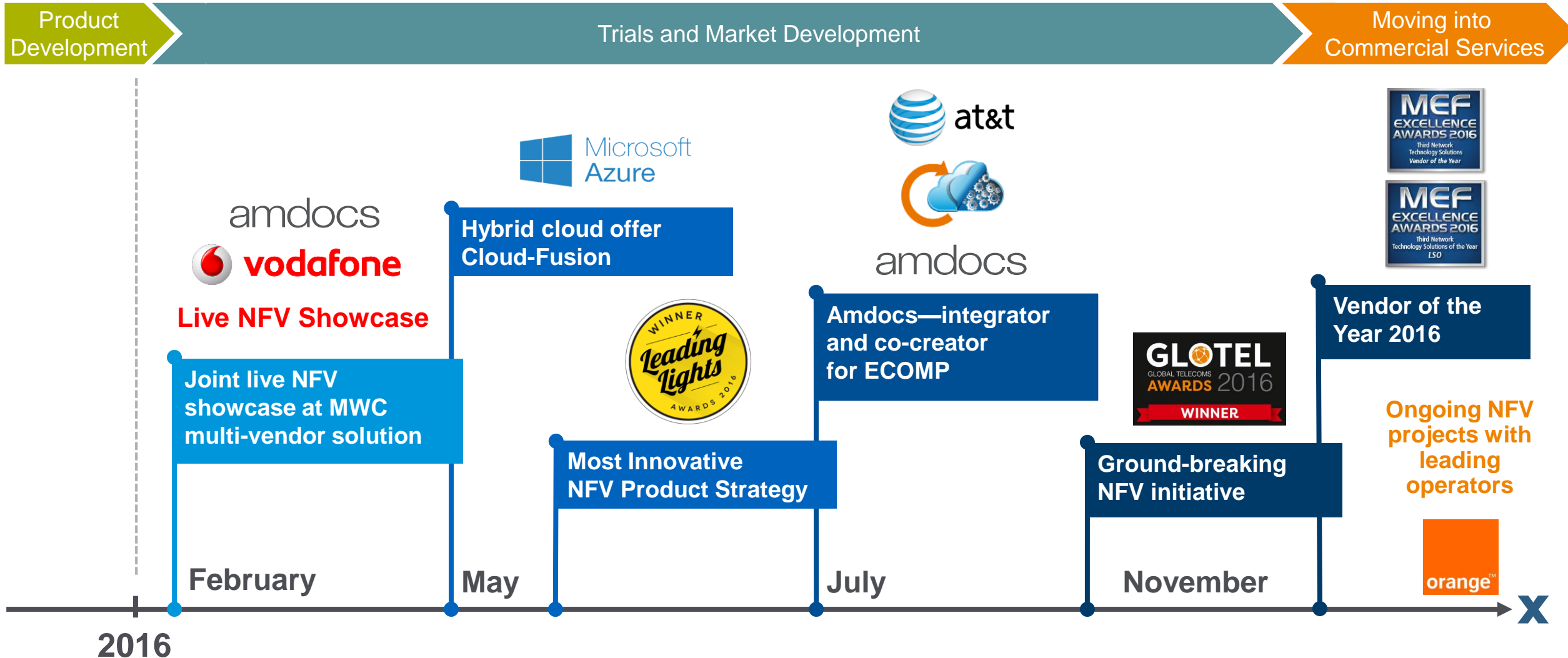
### Cost Reduction

- Standard hardware
- High resource utilization
- Multiple vendors

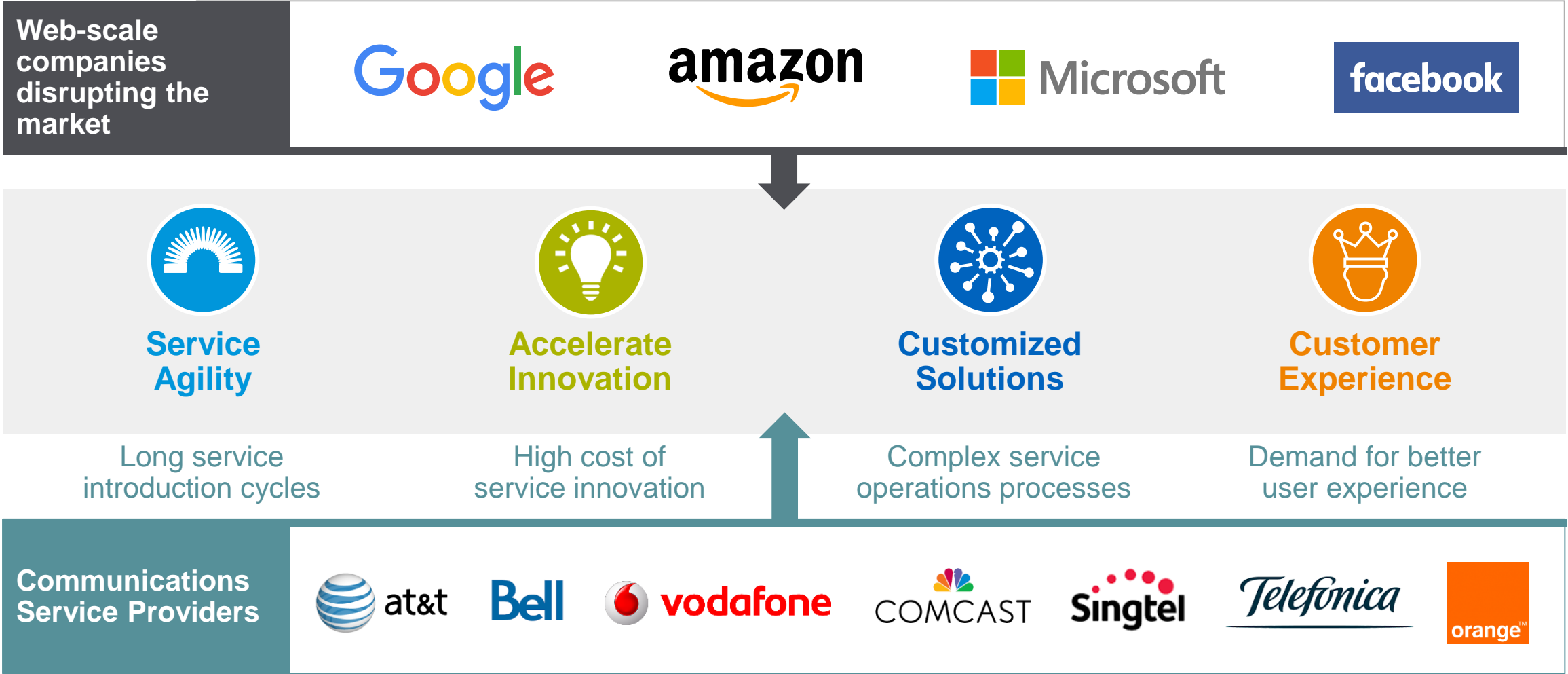




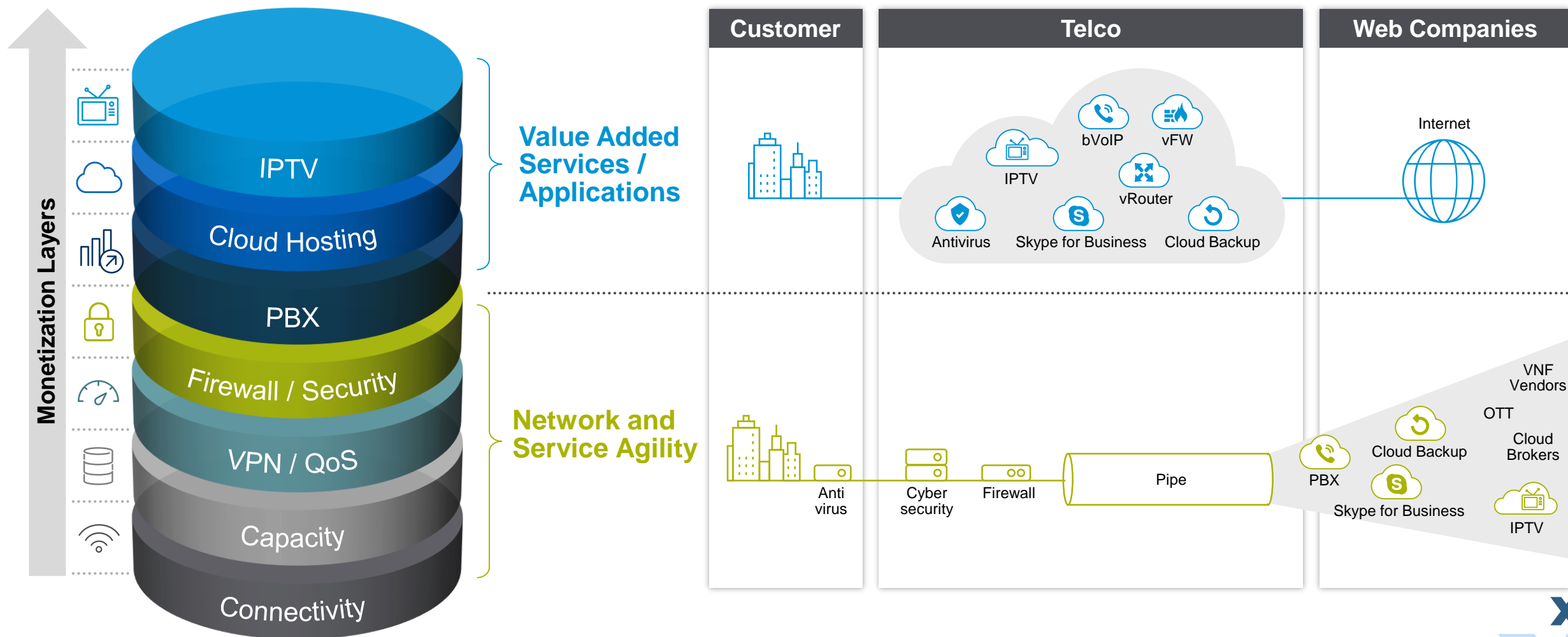
# 2016—a Year of Progress for Amdocs and NFV



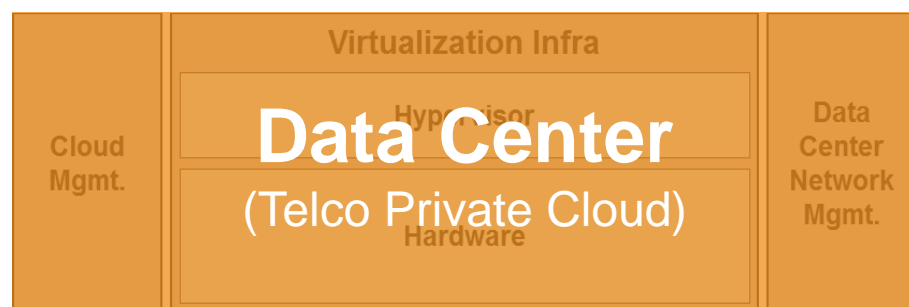
# Market Dynamics



# The NFV Promise – Agility and New Monetization Layers



# The Network Virtualization Stack



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## Service Driven NFV

- Service onboarding & design automation
- E-2-E service & network orchestration
- Real-time monitoring & assurance

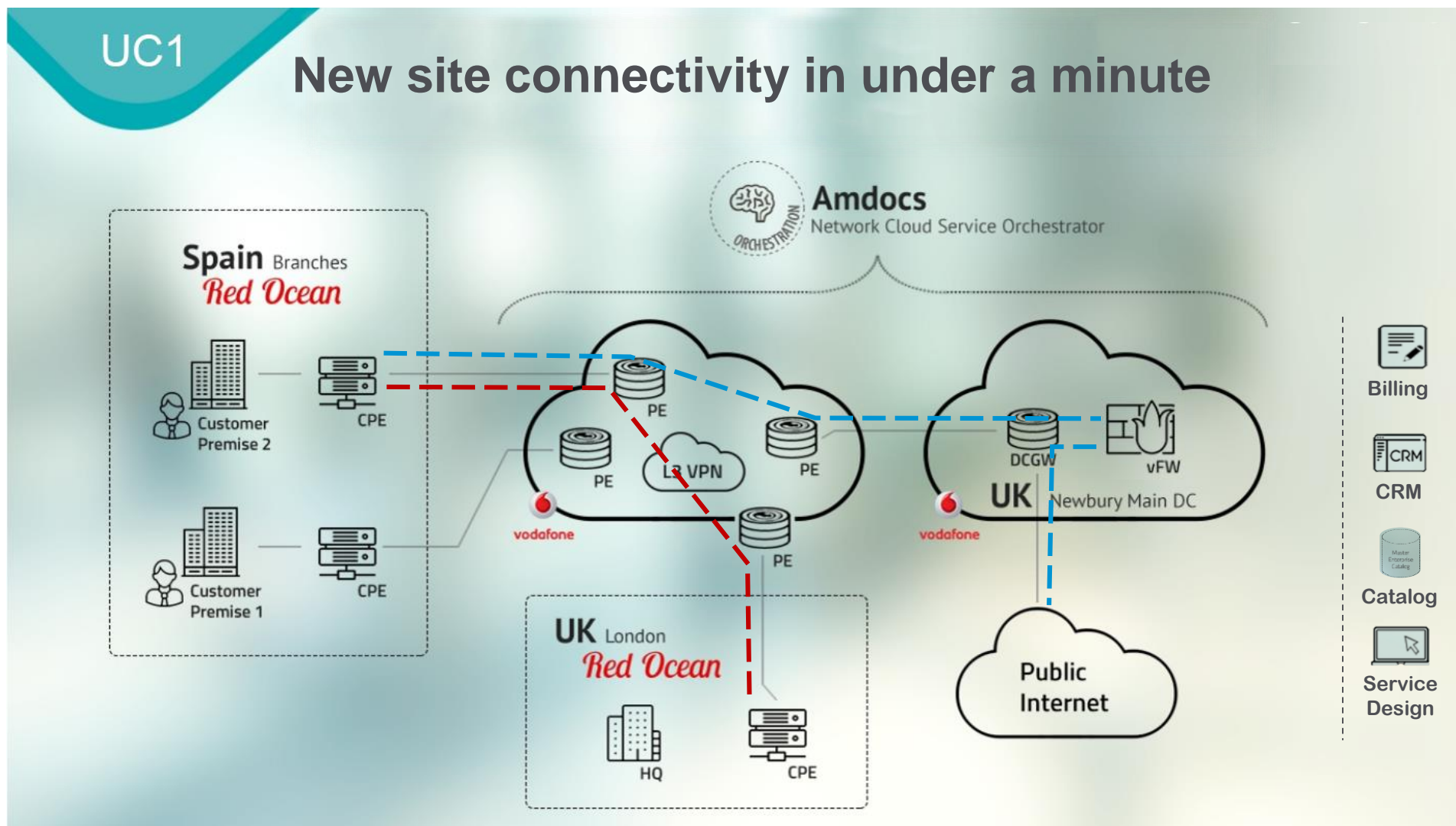
**Service agility & vendor neutrality**

## Amdocs NFV Partner Program

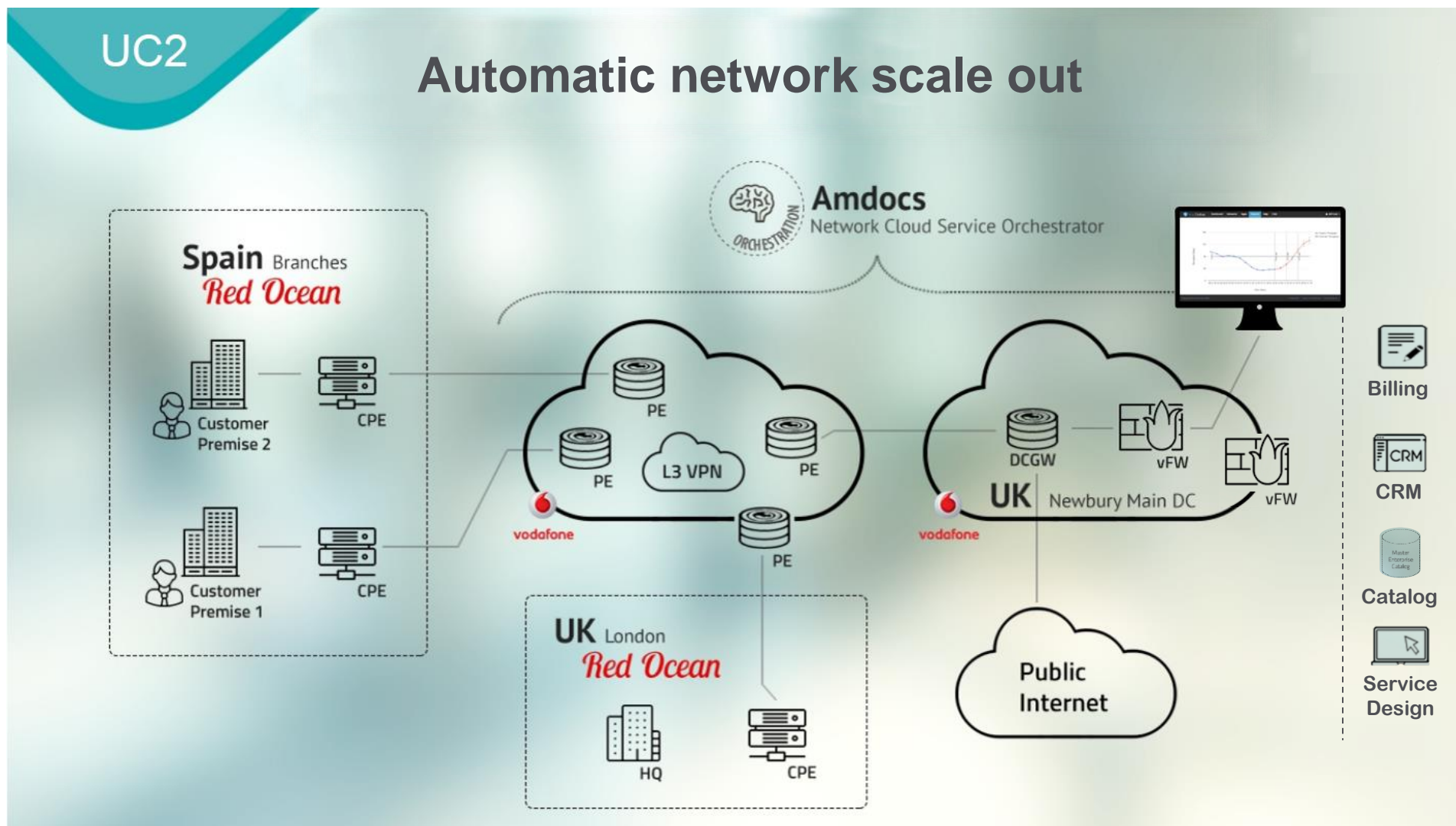
- 40+ partners, gaining market traction



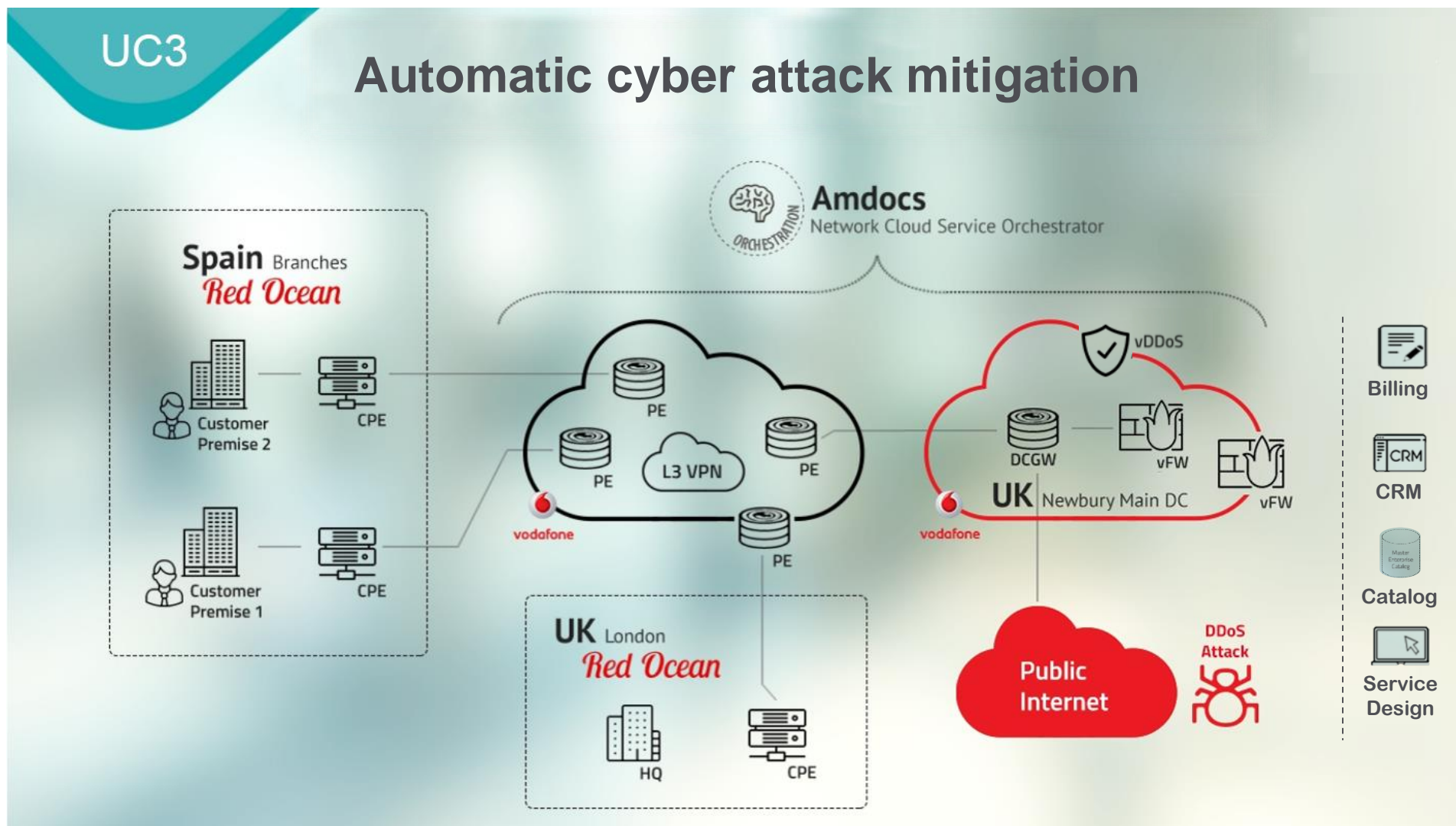
# Vodafone Live NFV Showcase—Use Case 1



# Vodafone Live NFV Showcase—Use Case 2



# Vodafone Live NFV Showcase—Use Case 3



# Key Takeaways



NFV represents a revolution in the Telecom Networking market

- Spending to shift from proprietary hardware to software applications and orchestration
- New addressable market opportunity—**significant upside potential for Amdocs**



NFV addresses the key pain points of CSPs today

- Service agility
- Simplified network operations



Amdocs delivers a unique service driven approach to NFV

- Open and vendor-agnostic network orchestration layer
- Leverages existing Amdocs assets and expertise in the BSS and OSS space
- Proven track record in delivering telco-grade software solutions



Thank you

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