

# The Risks and Rewards of Transitioning to NFV

What CSPs should know in 2017



## CSPs

Communications Services Providers (CSPs) provide the networks and connectivity that empower our digital economy – and they are facing unprecedented pressure. Demands from customers and stakeholders are pushing them to:



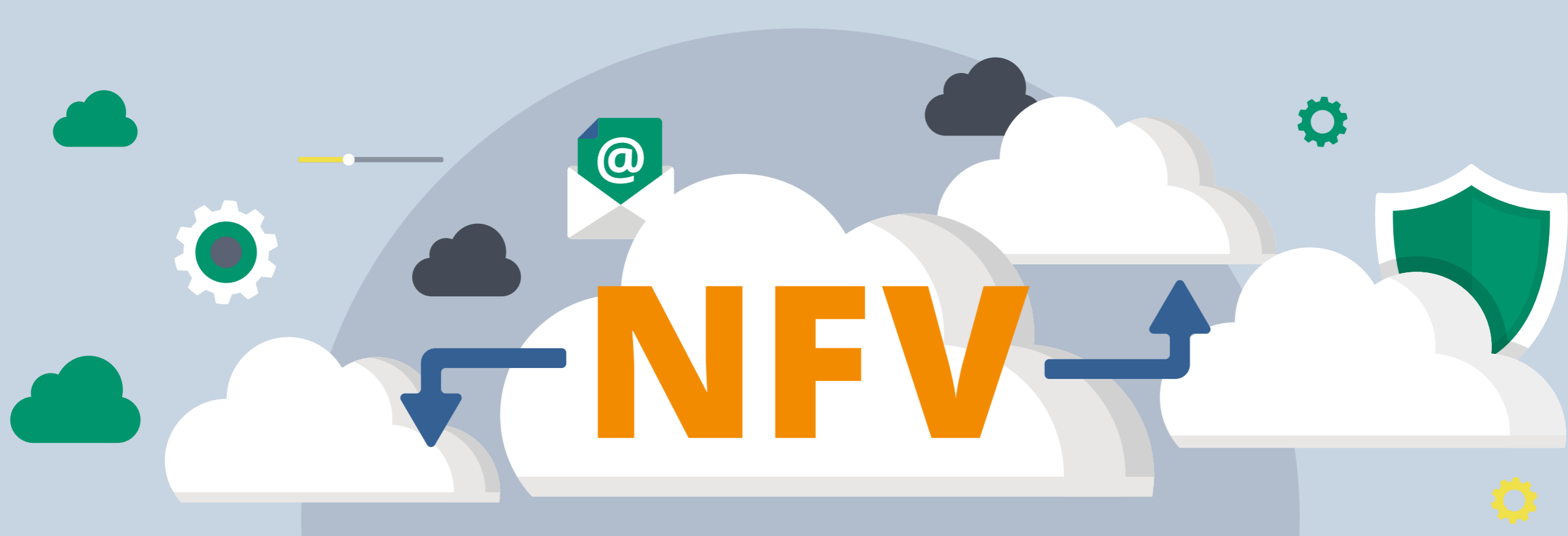
**Innovate Faster**



**Accommodate Disruptive Technologies**



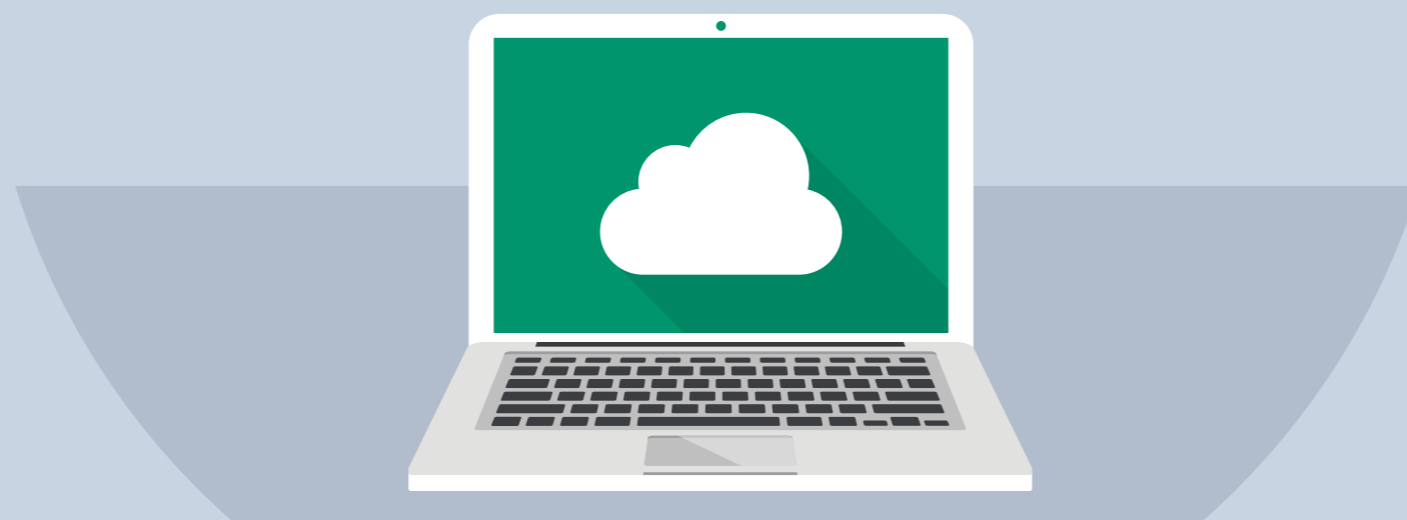
**Differentiate Their Offerings**



### Therefore, many are turning to Network Function Virtualization

NFV is the architectural approach of running software-defined network functions independent of any specific hardware platform.

NFV creates 'elasticity' within the infrastructure to dynamically provision network resources, providing agility and efficiency.

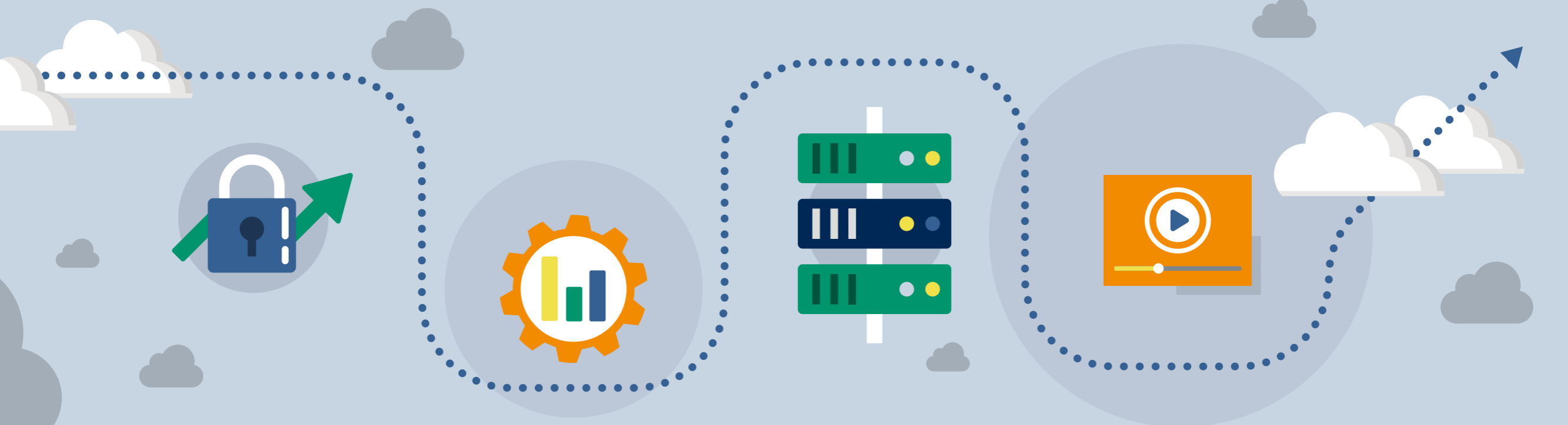


**100%**

of operators will implement NFV at some point\*

**81%**

plan to do so in 2017



### NFV provides extensive flexibility for innovation

But given the size of CSPs' networks, many will transition to NFV in phases and, for a period of time, run hardware-oriented and cloud-based networks simultaneously, which can present its own unique set of challenges.

## The Potential Risks and Rewards of NFV: A Breakdown

### RISKS



**Legacy network assurance tools aren't designed to manage virtualized network resources**

They can be unstable and aren't optimized to manage multiple environment types.



**Managing very different network operations types will be a challenge for network teams**

They'll need end-to-end visibility of their operations through a single pane of glass.



**Using multiple monitoring tools isn't efficient**

It can lead to increased operating costs and higher MTTR when toggling between screens.



**NFV brings agility and complexity**

This can make it easier for a minor infrastructure performance issue to widen into a service-impacting event.

### REWARDS



**NFV offers the speed and responsiveness to seize new market opportunities**

CSPs can offer compelling new mobile services, including music/video streaming, gaming, IoT and more.



**Scalable, flexible provisioning enables automation when managing network services**

This provides more efficient ways to meet fluctuating demand.



**NFV helps drive efficiencies in network operations**

This is due to its cloud-based approach, open systems, and reference architectures.



**NFV's automation empowers business agility**

CSPs can implement new ideas quickly with less risk and lower costs.

So how do CSPs manage the transition, ensuring visibility across both their legacy and NFV-equipped network environments?

The SevOne NFV Service Assurance Solution gives CSPs the real-time visibility they need to efficiently manage physical and virtual network environments. It is designed to meet the needs of CSPs implementing multi-vendor virtual network functions and service models as part of an OpenStack™-based virtual infrastructure, while also supporting their existing physical network infrastructure.

