



ERICSSON

IEEE CQR Workshop  
2014-05-14  
Kelly Krick



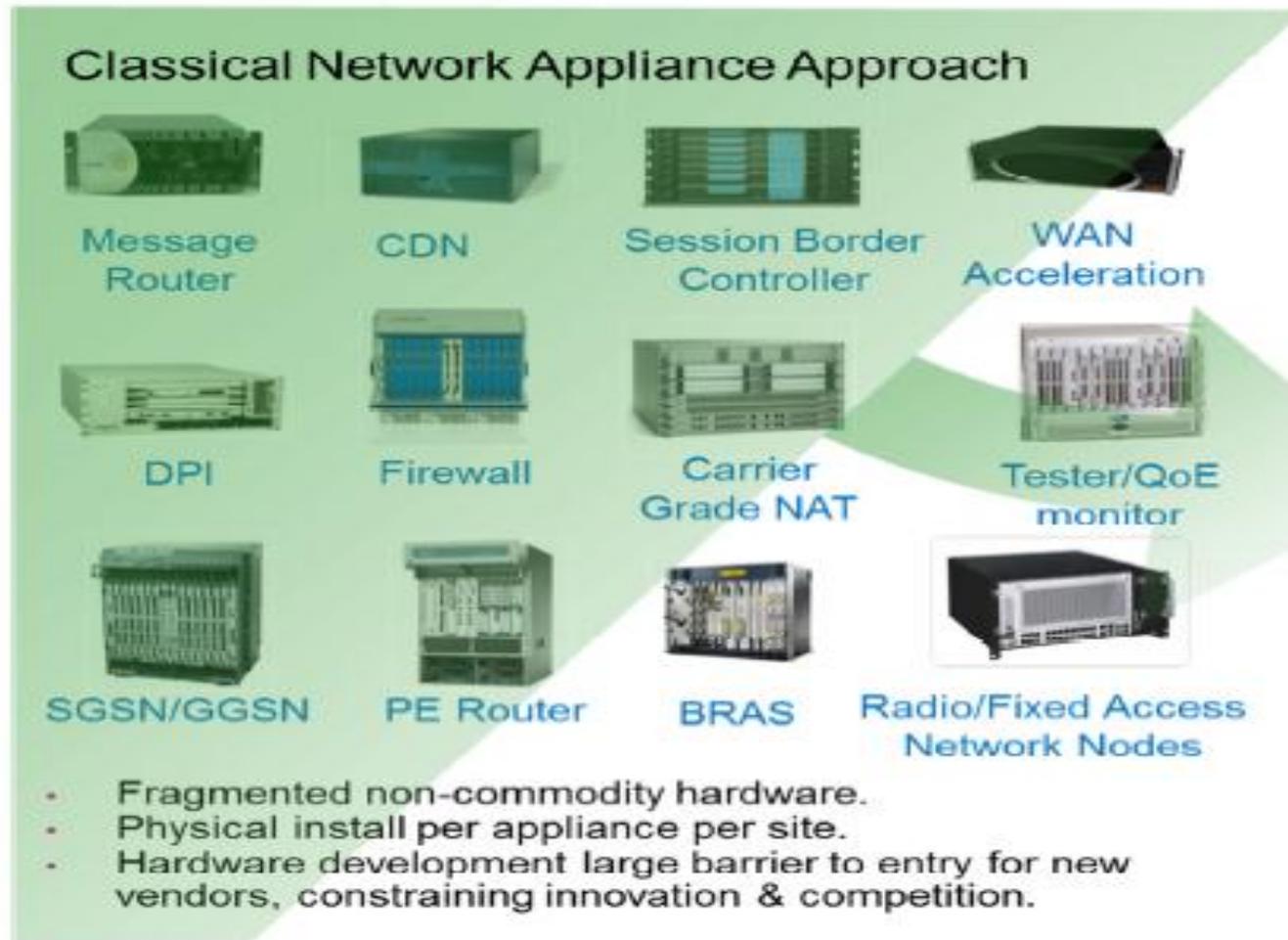
ERICSSON

GETTING THE CLOUD  
WORKING FOR YOU

YOUR GUIDE IN THE  
NETWORKED  
SOCIETY

WELCOME TO ERICSSON

# CLASSIC VS VIRTUAL



**Figure 1: Vision for Network Functions Virtualisation**

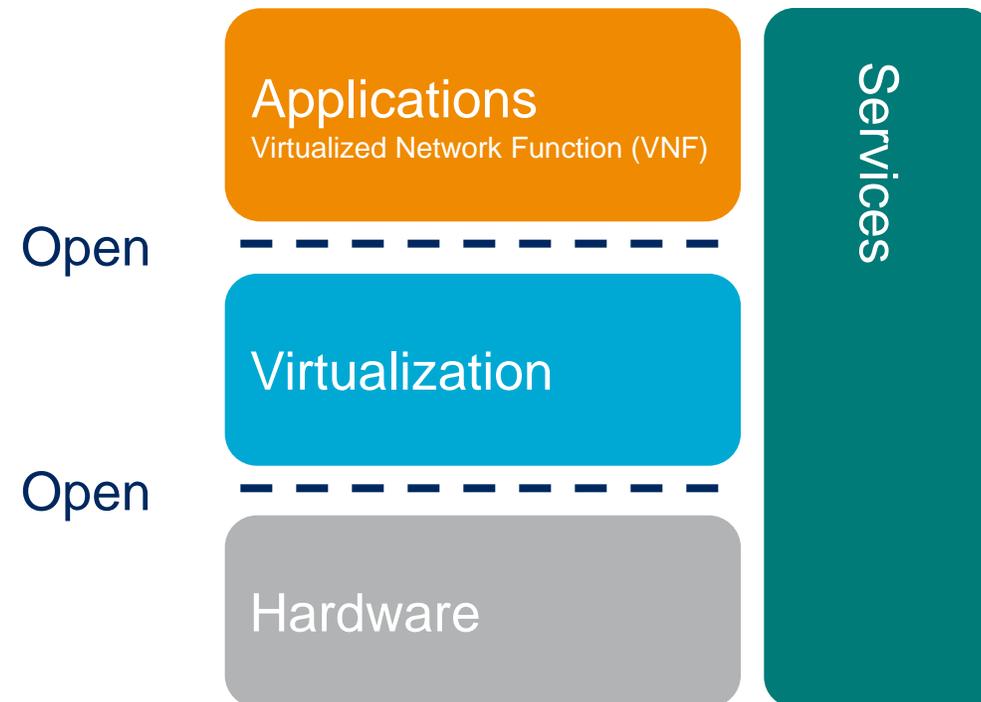


# NEW BUSINESS MODEL

From node business model...



...to layered business model



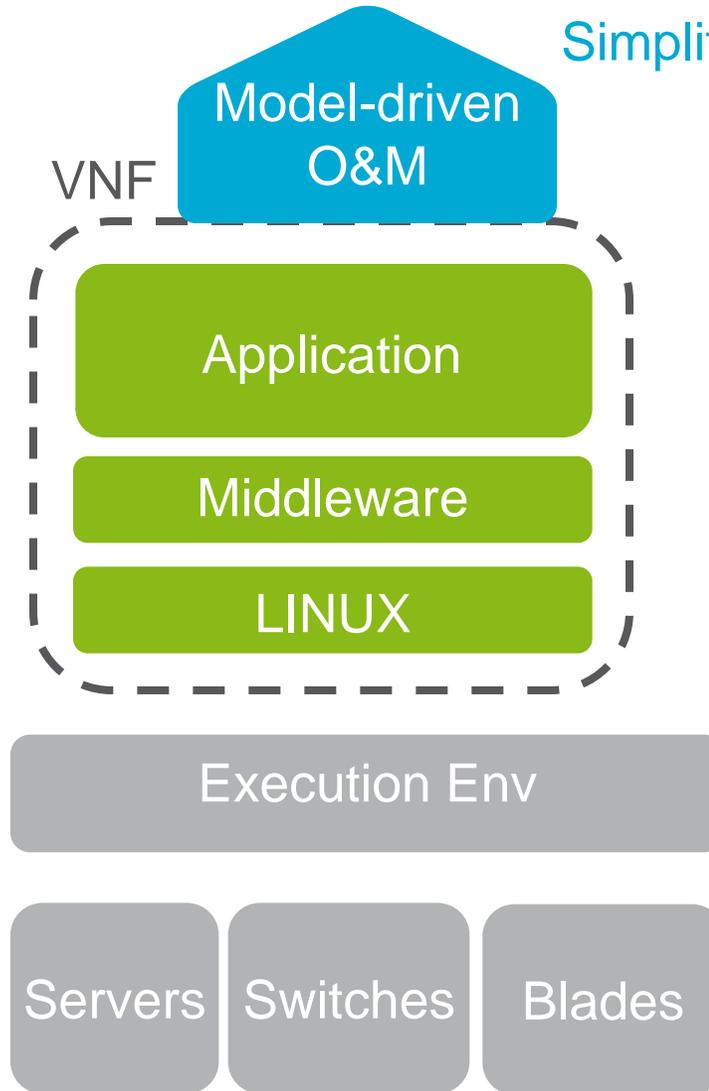
# COMPARED TO NATIVE NODE



Migration & Co-existence

Same Features  
Same Resilience  
Same Overload-protection

Decoupling  
Requirements on  
Infrastructure  
Low Latency  
Guaranteed Resources

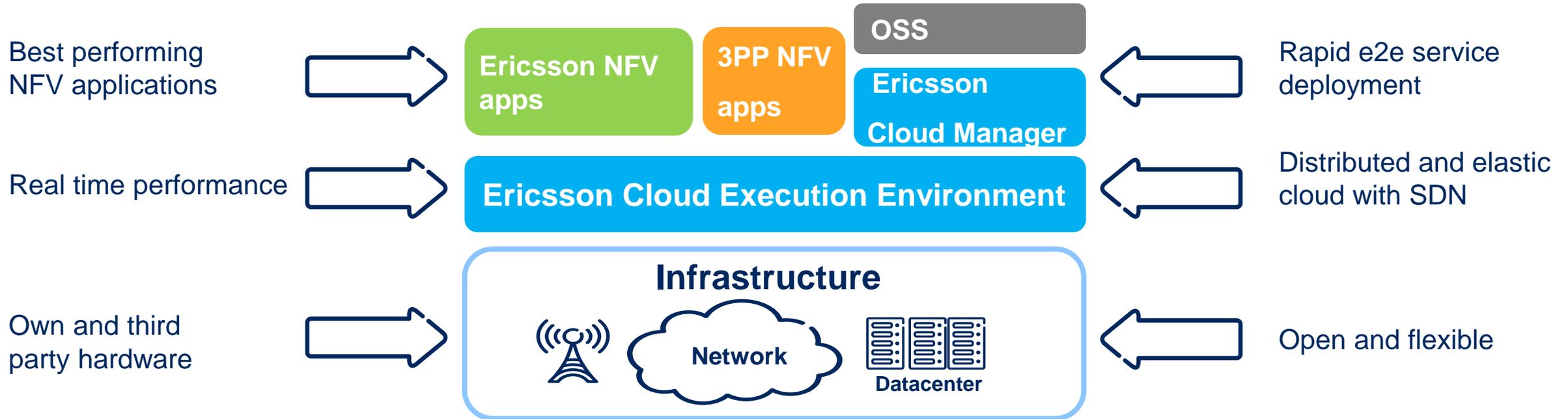


Simplify Integration

Automation

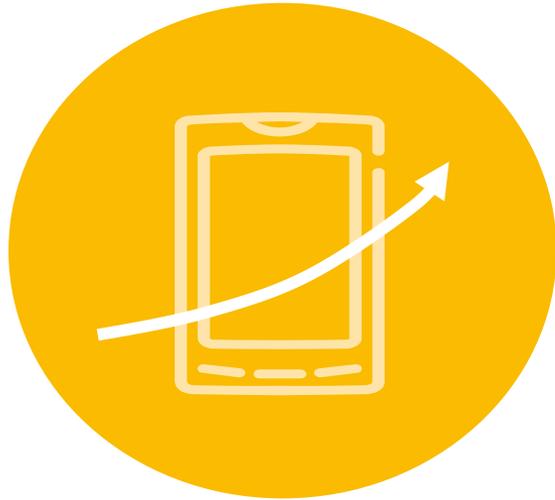
Model-driven  
Installation via OVF

# ERICSSON CLOUD PRODUCTS AND SOLUTIONS

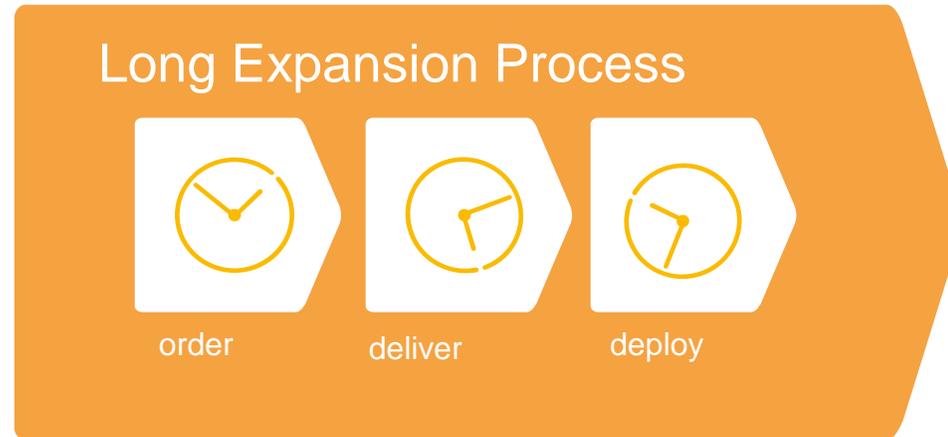


# CHALLENGE: GET READY FOR GROWTH

**Massive  
Smartphone  
Growth**



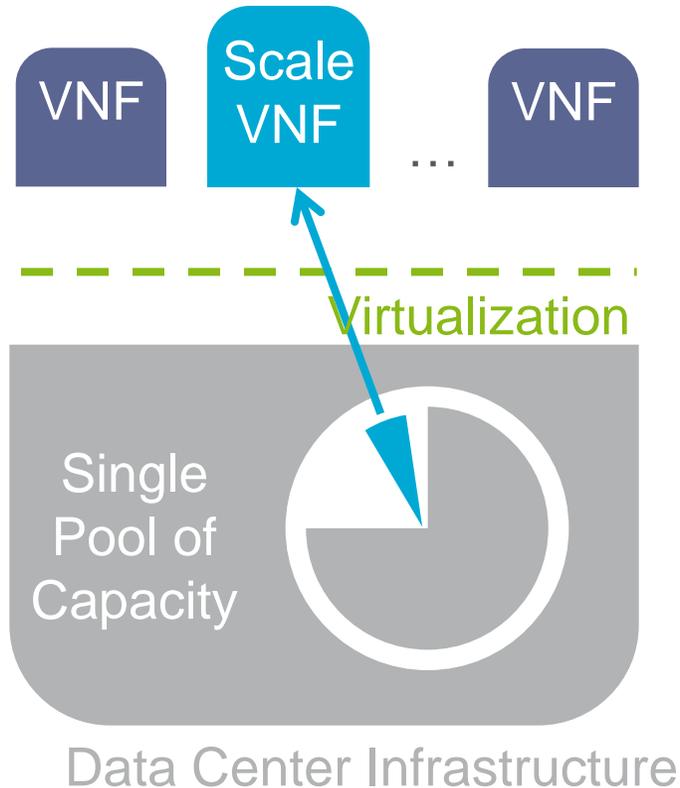
**Network  
Performance  
is Key**



**Low  
Performance**

**Excessive  
Spare  
Capacity**

# EXPAND IN MINUTES



- 0 Existing Capacity Pool
- 1 Monitor Service Uptake
- 2 Allocate Capacity



Rapid  
Service  
Expansion



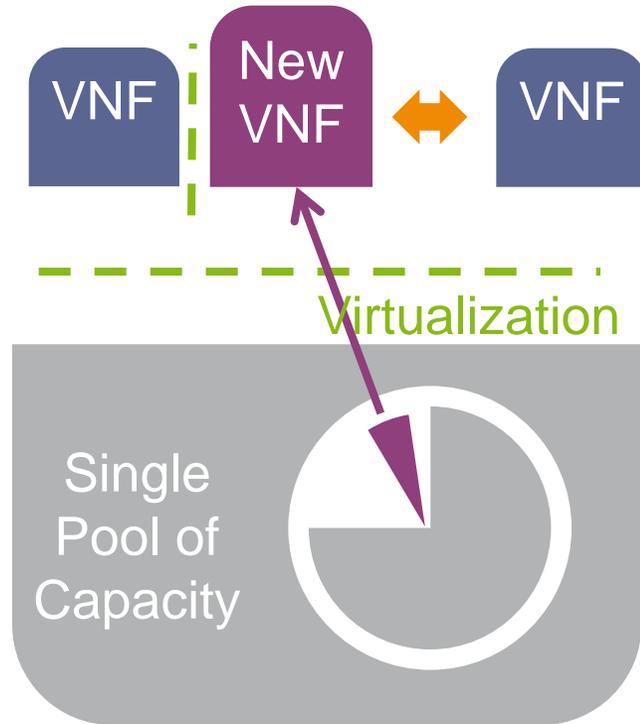
Order

Deliver

Deploy

Expand Application in Minutes instead of Month

# REDUCE INTEGRATION EFFORT FOR NEW APPLICATIONS

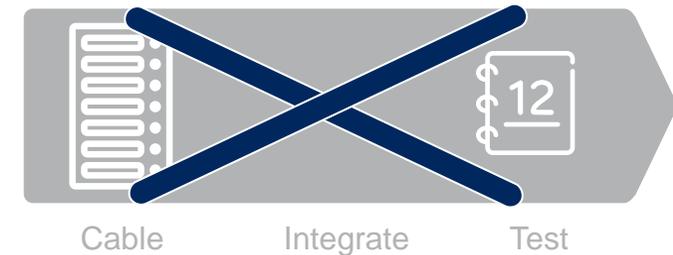


- 1 Allocate Capacity
- 2 Configure Std. Interface
- 3 Integrate Proprietary Interface

## Automated Installation

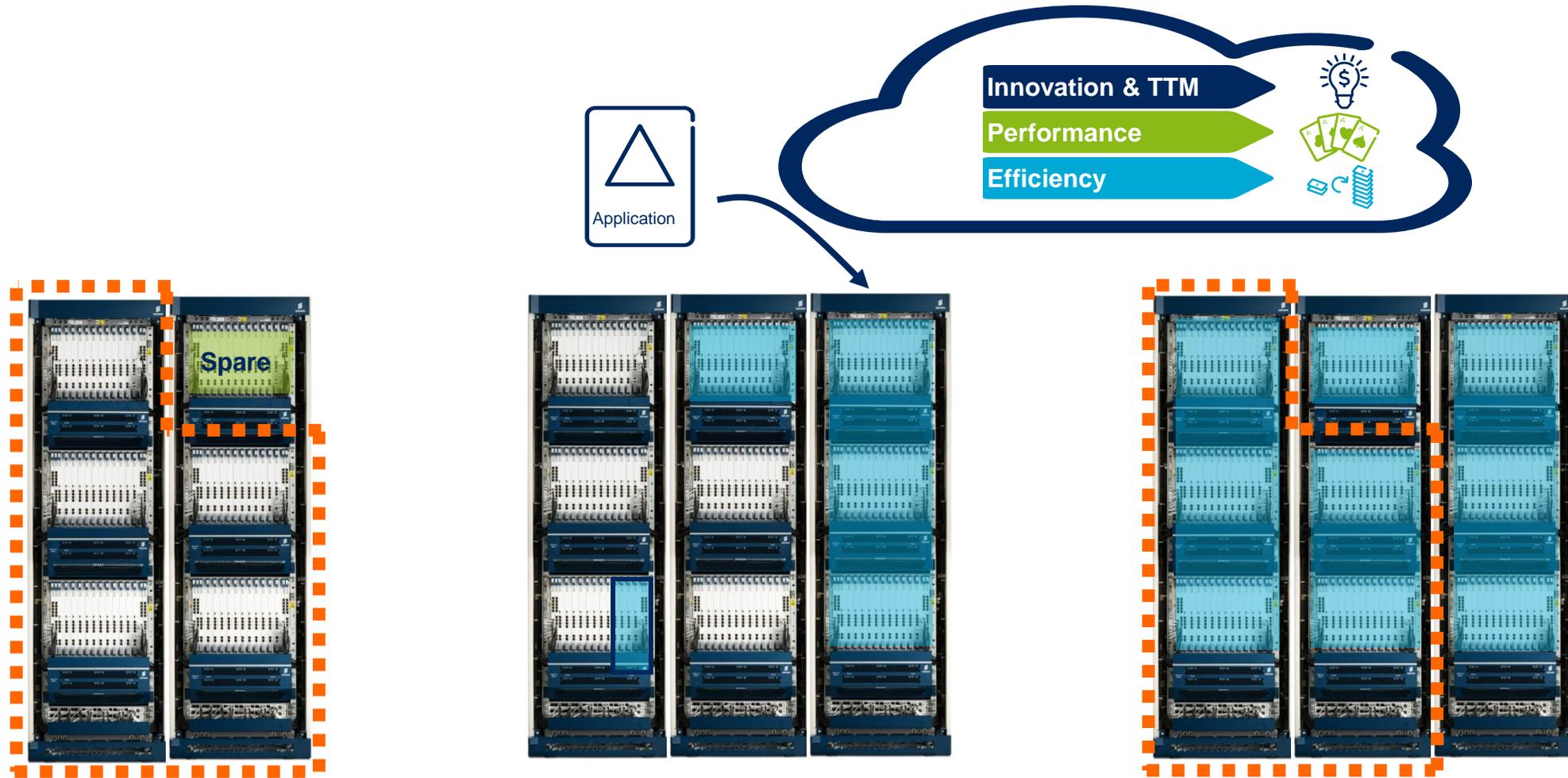


## No HW integration



Save time to integrate a new box per application

# ERICSSON CLOUD SYSTEM GRACEFUL MIGRATION

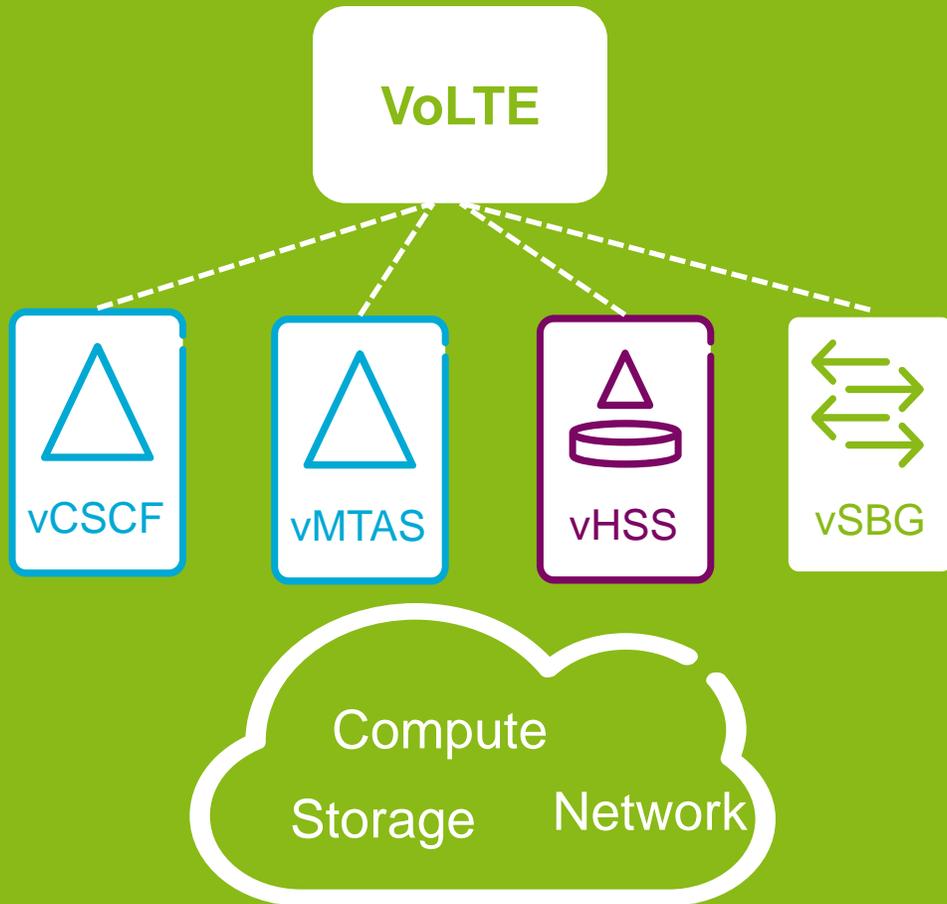


Existing Native  
Network Functions

Introducing  
Ericsson Cloud System

Migrating to  
virtualized network functions

# IMS VIRTUALIZATION

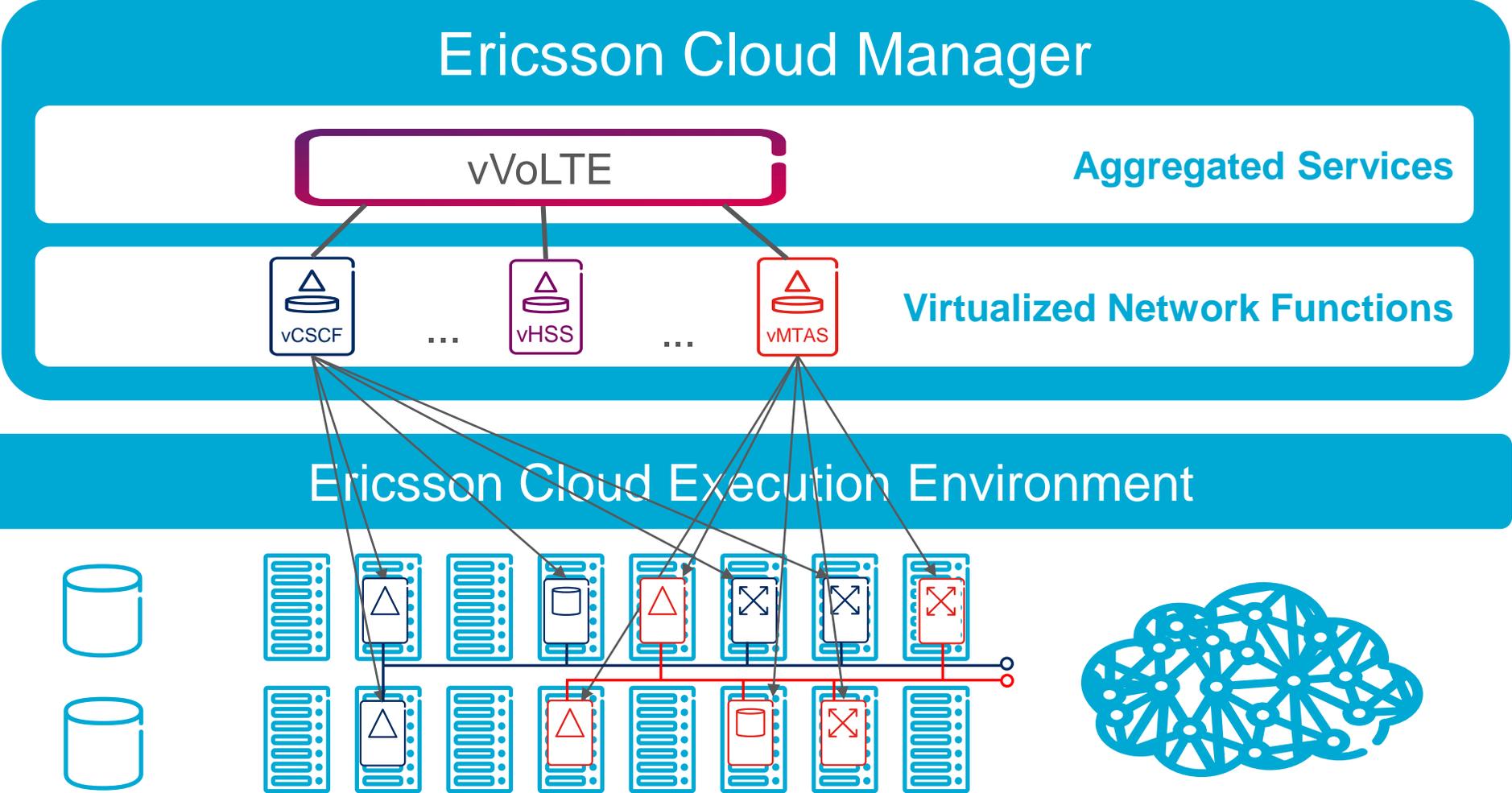


- › First Virtualization Target are the Signaling Applications
- › Projects:
  - Enterprise Com: CSCF, MTAS on vmWare and 3PP HW
  - VoLTE: CSCF, MTAS, SBG, HSS-FE on OpenStack and 3PP HW

# MAP "NODE/SERVICE" TO A CLUSTER OF VIRTUAL MACHINES



- Compute resources
- Storage resources
- Memory resources
- Networking parameters
- Software and data
- License information
- High availability parameters
- Scalability parameters
- ...
- OPEN VIRTUALIZATION FORMAT





YOUR GUIDE IN THE NETWORKED SOCIETY



Cloud System Provider

&



Cloud Transformation Partner

&



Core NW Portfolio



**ERICSSON**