

The background of the entire image is a large, curved wall covered in a vibrant cityscape at night, with numerous skyscrapers and lights. The Ericsson logo, consisting of the word "ERICSSON" in a bold, white, sans-serif font followed by three horizontal white bars, is prominently displayed across the upper portion of this wall.

ERICSSON

IEEE CQR Workshop
2014-05-14
Kelly Krick

ERICSSON

GETTING THE CLOUD
WORKING FOR YOU

CLASSIC VS VIRTUAL

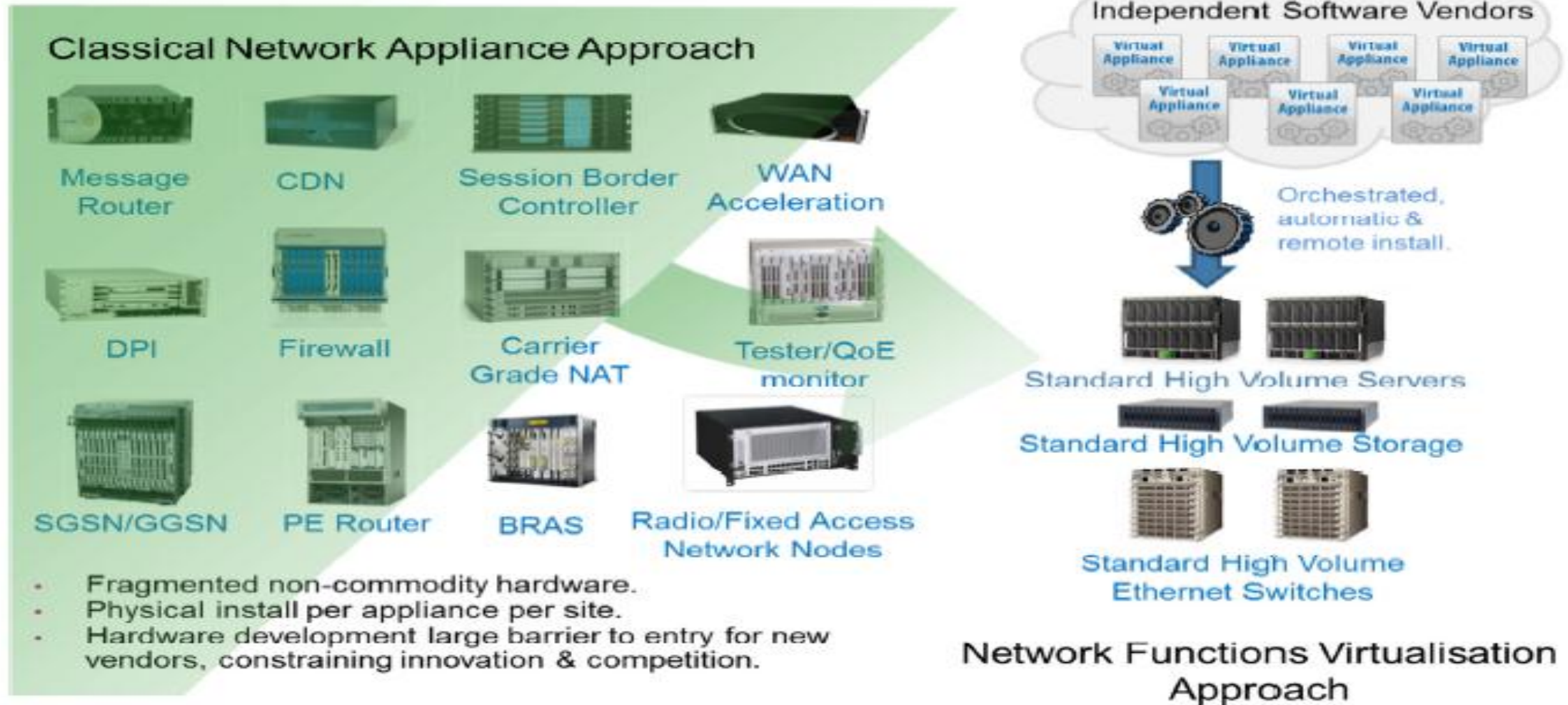
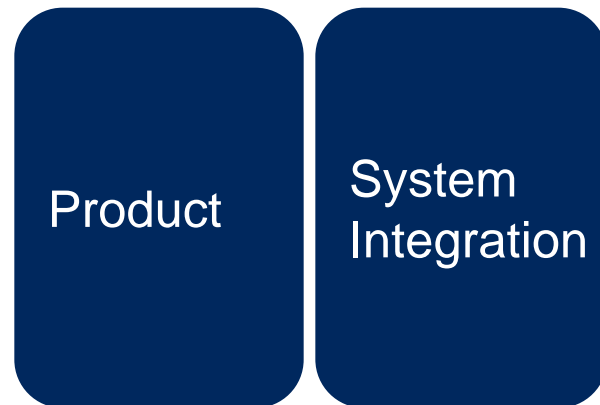


Figure 1: Vision for Network Functions Virtualisation

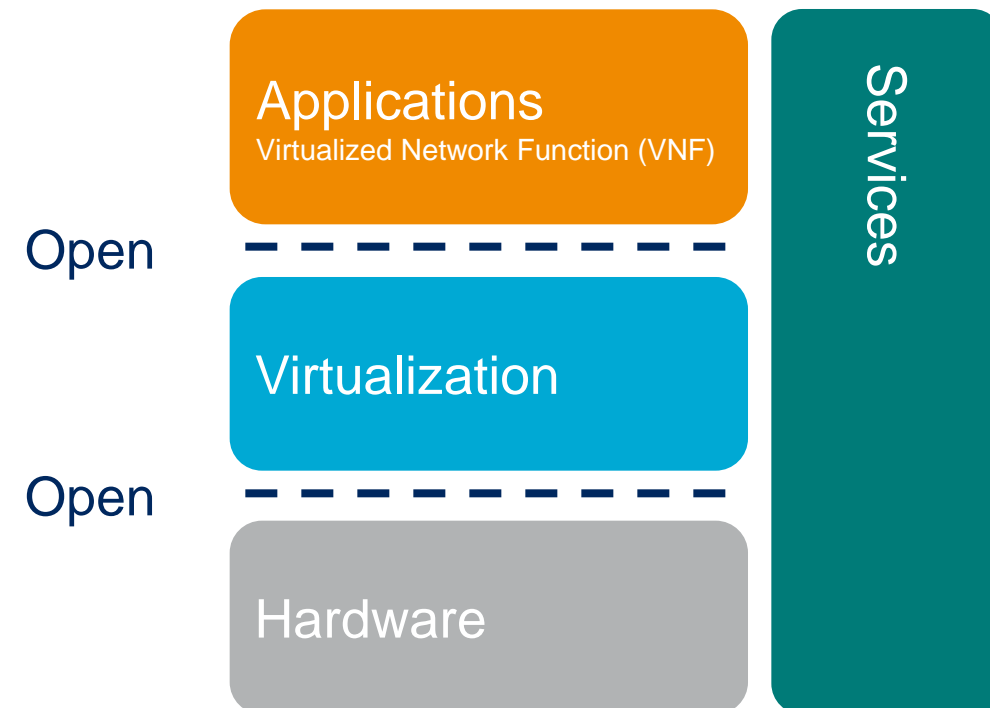


NEW BUSINESS MODEL

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

Model-driven
O&M

VNF

Application

Middleware

LINUX

Execution Env

Servers

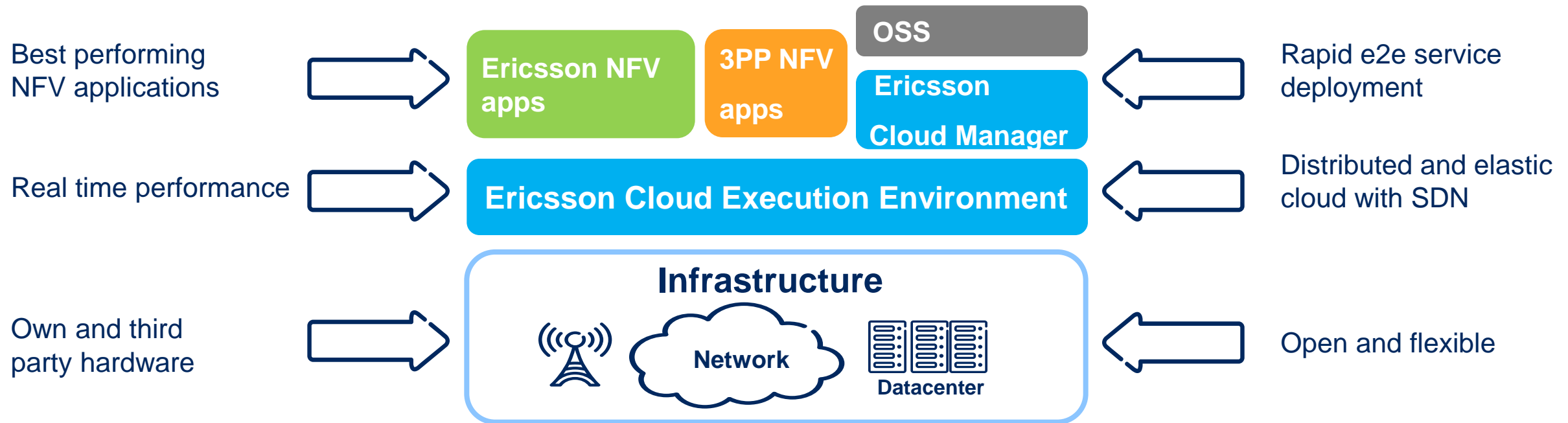
Switches

Blades

Automation

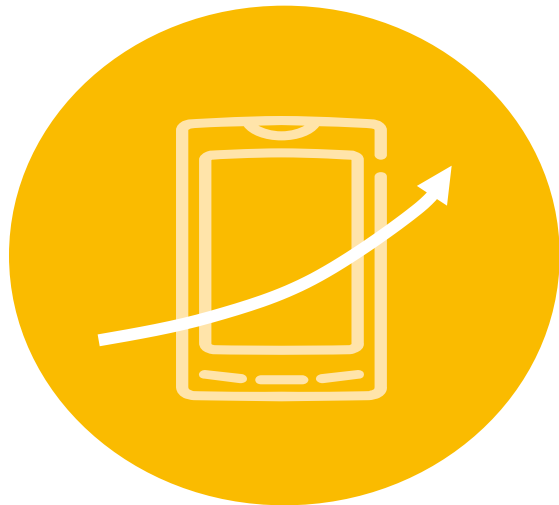
Model-driven
Installation via OVF

ERICSSON CLOUD PRODUCTS AND SOLUTIONS

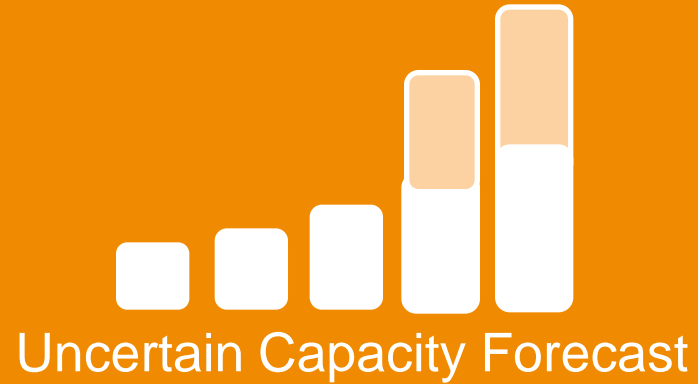


CHALLENGE: GET READY FOR GROWTH

**Massive
Smartphone
Growth**



**Network
Performance
is Key**



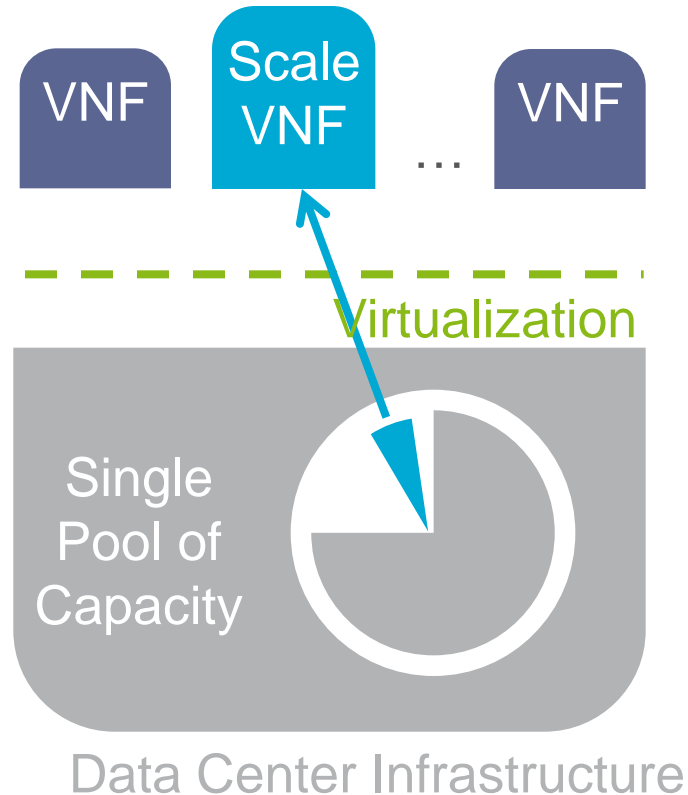
Long Expansion Process



**Low
Performance**

**Excessive
Spare
Capacity**

EXPAND IN MINUTES



- ① Existing Capacity Pool
- ② Monitor Service Uptake
- ③ Allocate Capacity



Rapid
Service
Expansion



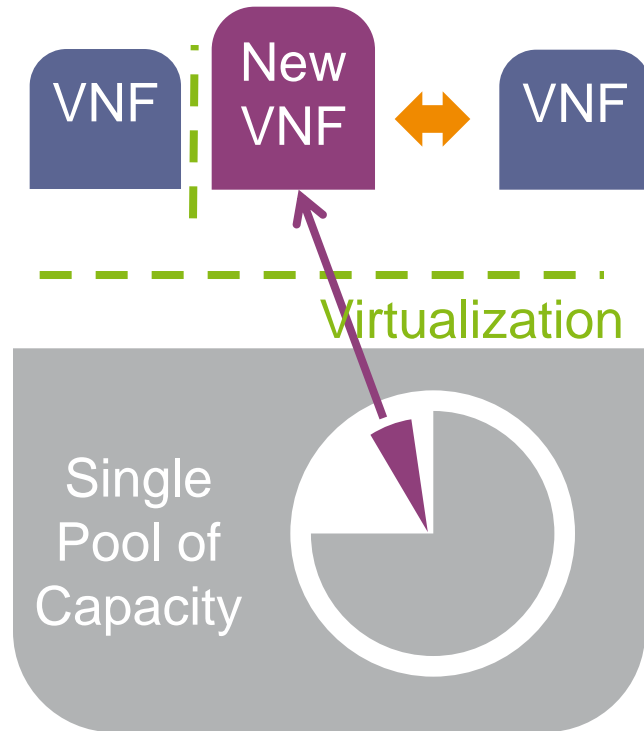
Order

Deliver

Deploy

Expand Application in Minutes instead of Month

REDUCE INTEGRATION EFFORT FOR NEW APPLICATIONS

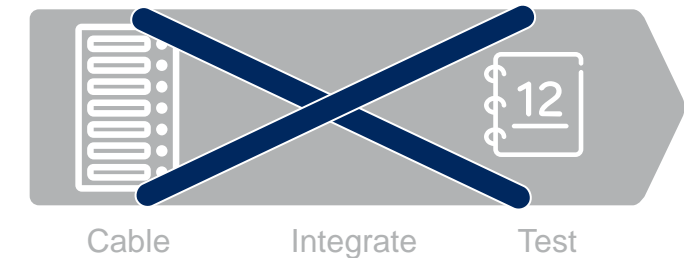


- ① Allocate Capacity
- ② Configure Std. Interface
- ③ Integrate Proprietary Interface

Automated Installation

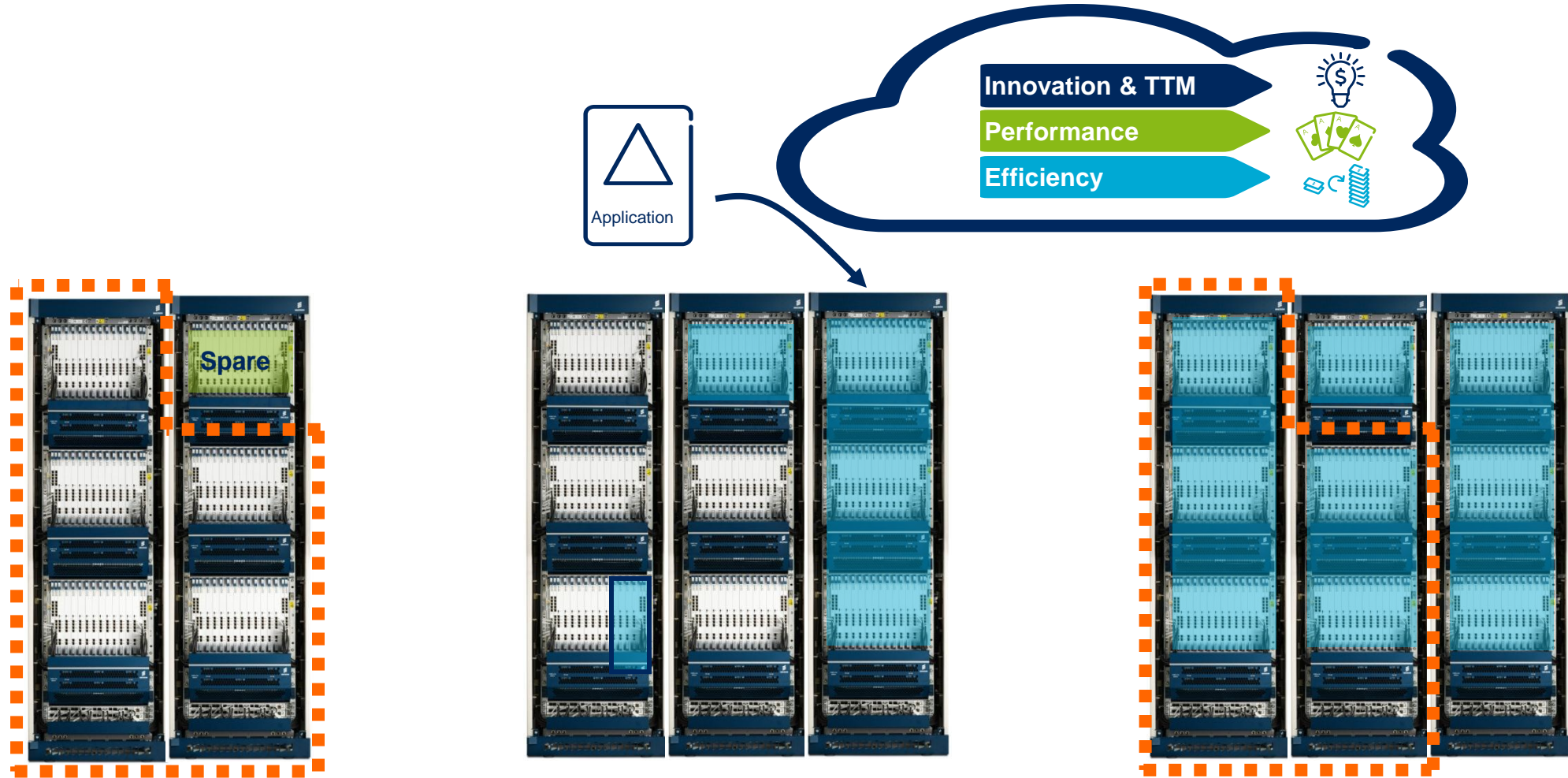


No HW integration



Save time to integrate a new box per application

ERICSSON CLOUD SYSTEM GRACEFUL MIGRATION

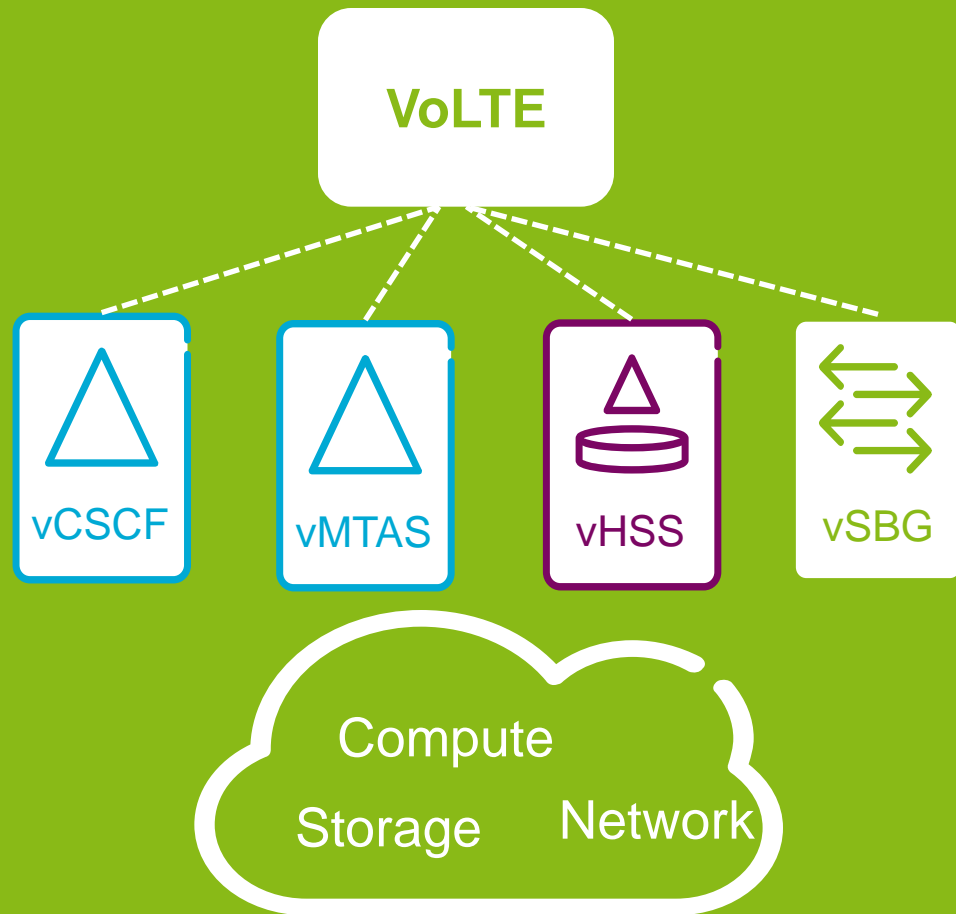


Existing Native
Network Functions

Introducing
Ericsson Cloud System

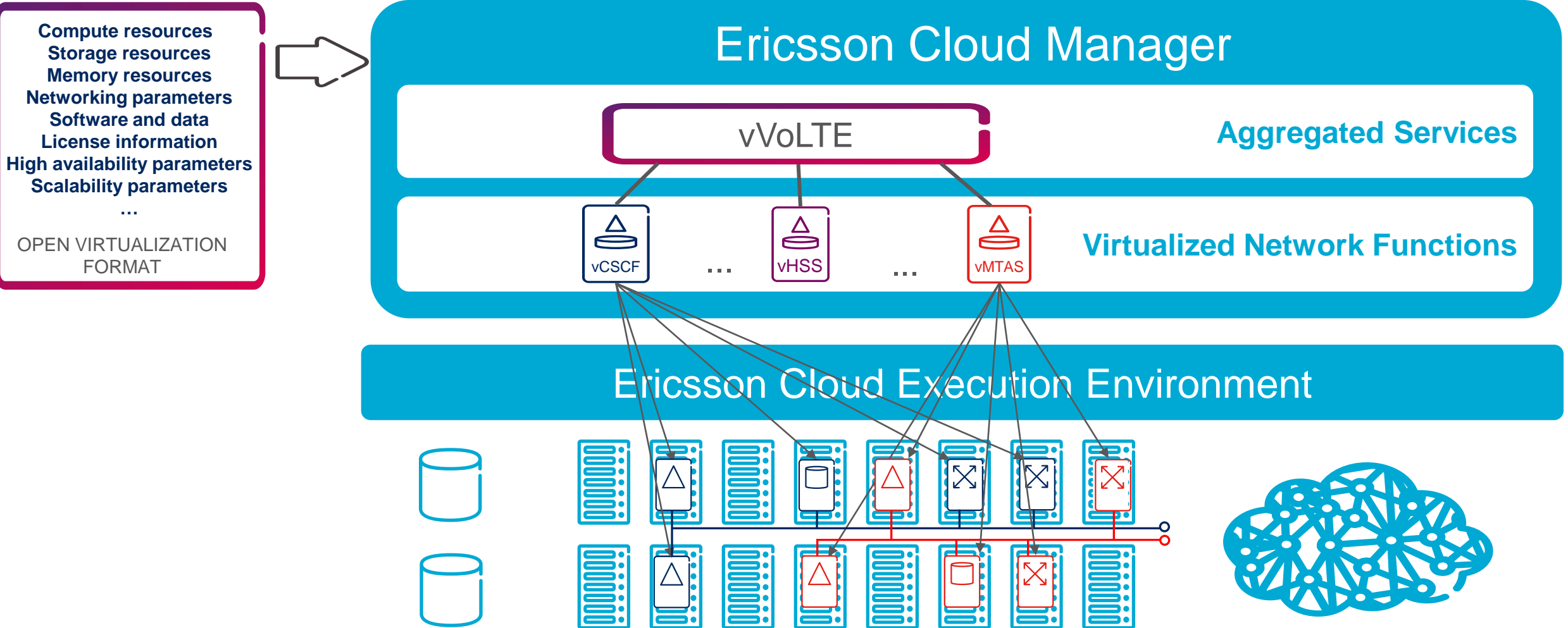
Migrating to
virtualized network functions

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



YOUR GUIDE IN THE
NETWORKED
SOCIETY

WHAT'S NEXT?
Coordination Center of the Future

YOUR GUIDE IN THE
NETWORKED
SOCIETY



Cloud System
Provider

&



Cloud Transformation
Partner

&



Core NW Portfolio



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