

Community Webcast: Winning Strategies for Deploying Virtualized Networks

Niamh Cahill, Director Professional Services, Agile Operations

Agenda

1

INDUSTRY OVERVIEW

2

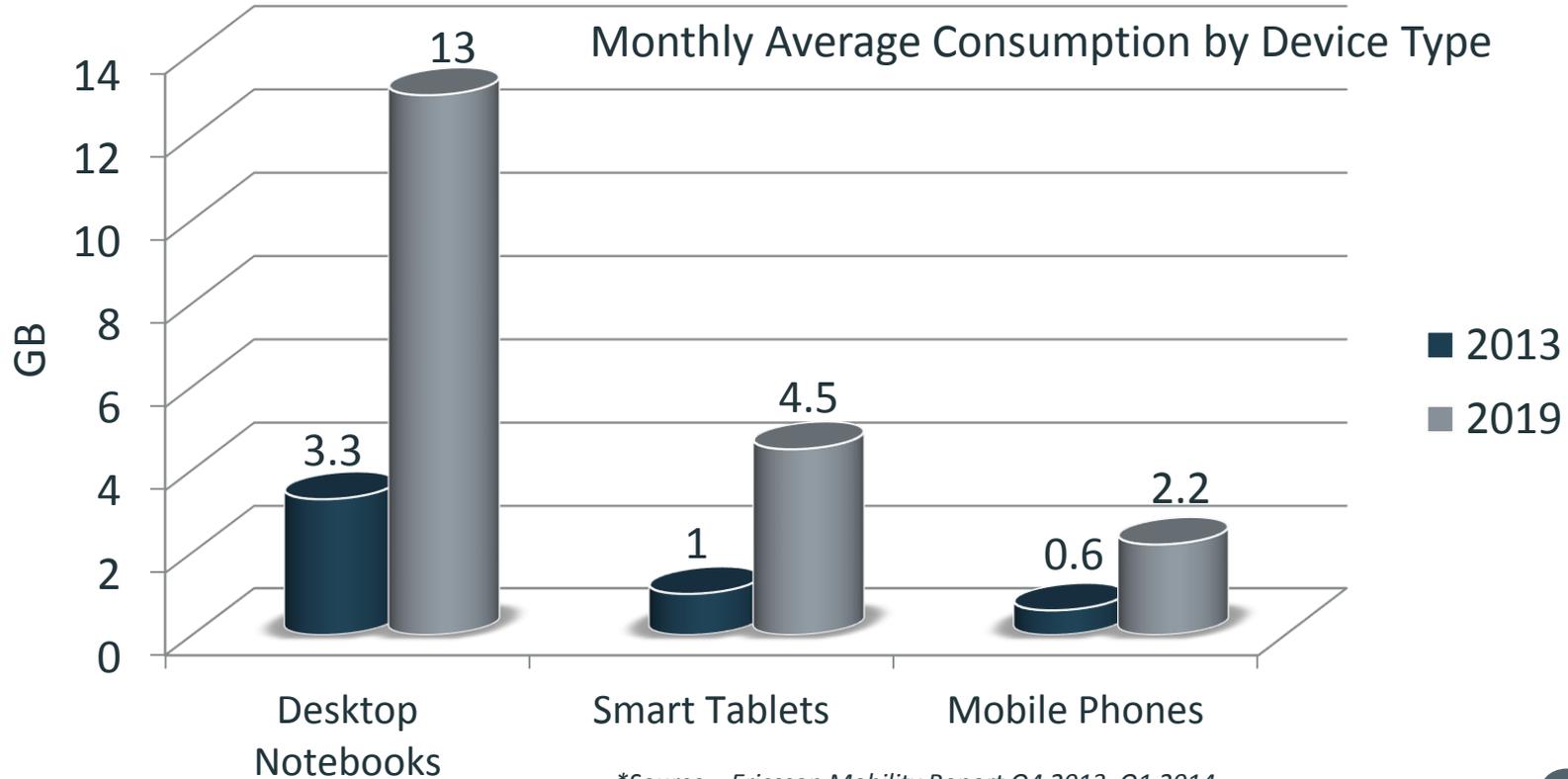
OPERATIONAL CHALLENGES

3

STRATEGIES FOR SUCCESS IN THE SDN/NFV SPACE

Application Economy = Exponential Data Growth

Mobile data traffic in Q1 2014 exceeded total mobile data traffic in 2011 globally



*Source – Ericsson Mobility Report Q4 2013, Q1 2014



**Adapt to
dynamic
consumer &
business
behavior**

Challenges

**Enabling
customer
premise
services**

lead to

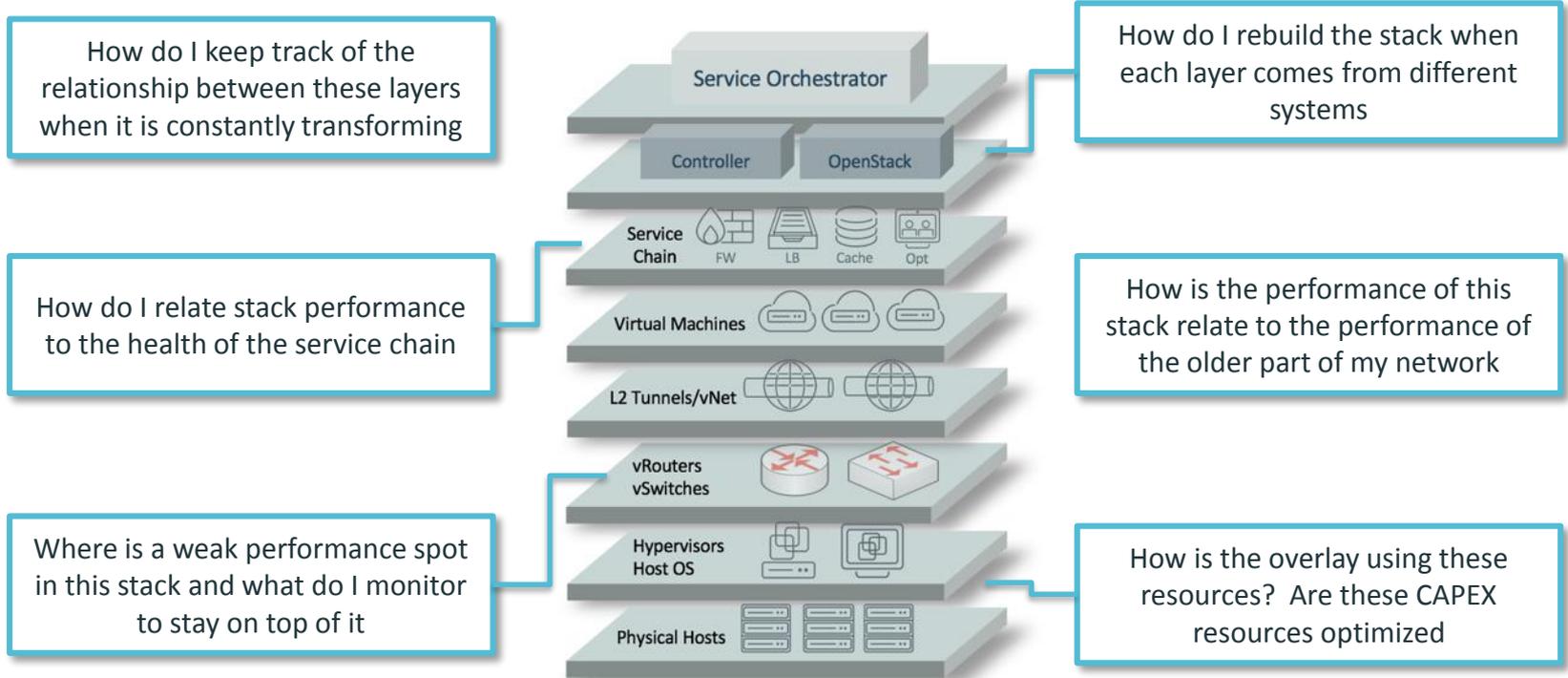
Opportunity

**Assure
End to End
Quality of
services**

**With
SDN, NFV
and
Dynamic
Service
Chaining**

**Scale,
integrate ,
automate
and
zero touch**

Unraveling The New Stack



SDN/NFV Use Cases

vCPE - Working with a North American CSP who is deploying a vCPE service for their Enterprise Business Services. Key challenges involve how to integrate discovery workflow in a hybrid SNMP and NFV environment

SD Data Center - Working with a large Tech Enterprise to gain visibility into their deployed SDDC. Key challenges involve providing visibility into self-serviced usage and production/non-production population

SDN Core - Working with a Mega North American CSP on providing performance monitoring of their SDN controlled core networks with specific interest in understanding the systems performance and impact on infrastructure

SD WAN - Working with a North American customer in providing performance analytics on the application routing aspect of SD WAN

Agile Operations Today: from Monitoring to Creation of Value Added Services

Network teams have to deal with a constant flow of new technologies, innovation & change.....



Vertical Solutions

Multiple Business Models

Service Creator

Service Enabler

Network Developer

Technology

Processes

Organization

While at the same time adhering to standard process frameworks to reduce risk, control costs and increase accountability

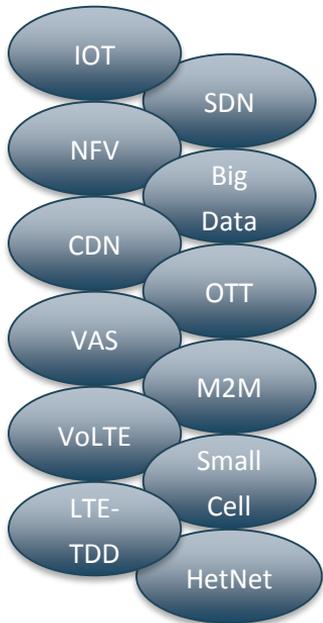
eTOM

FCAPS

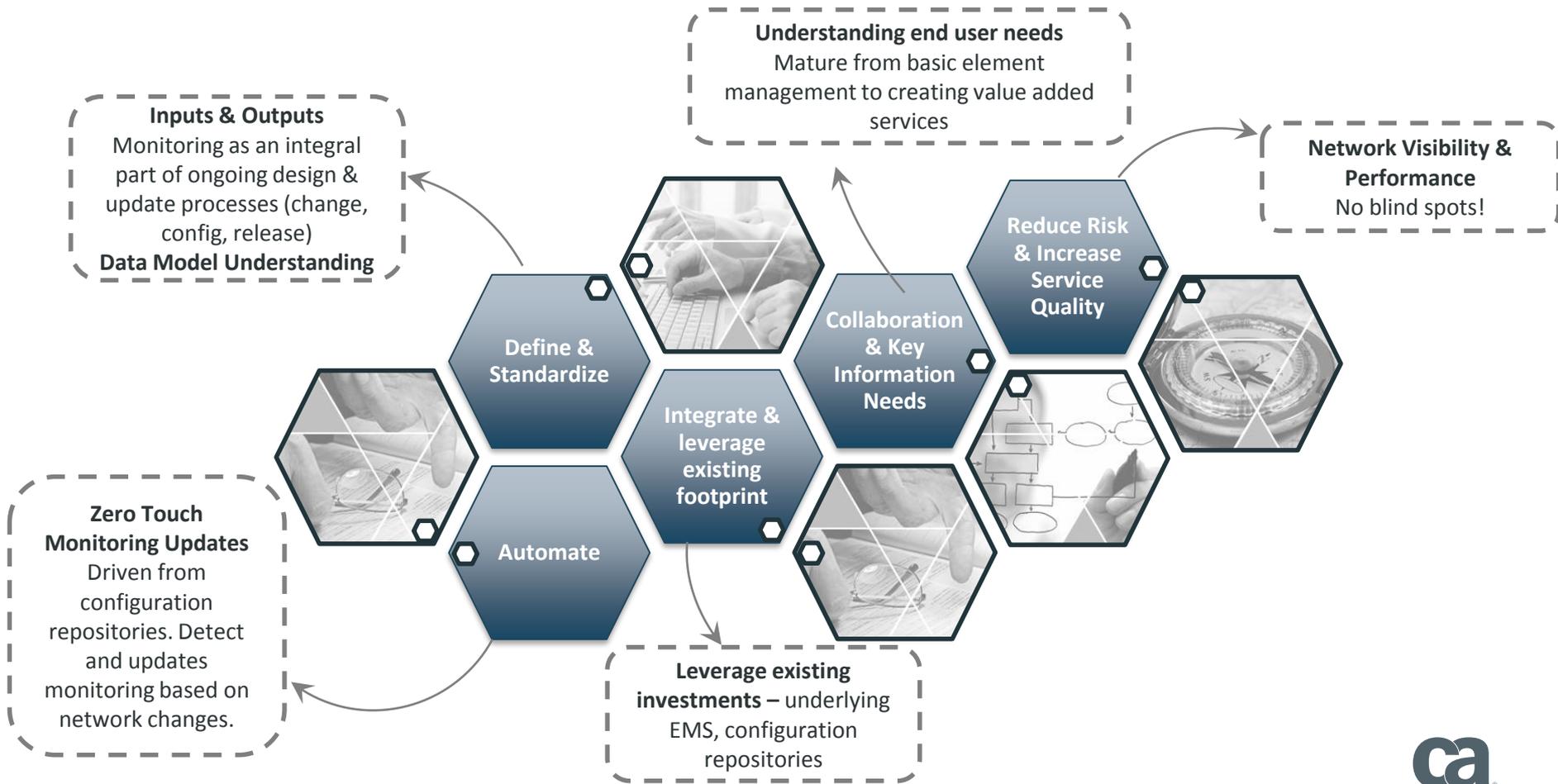
ITIL

ISO 20000

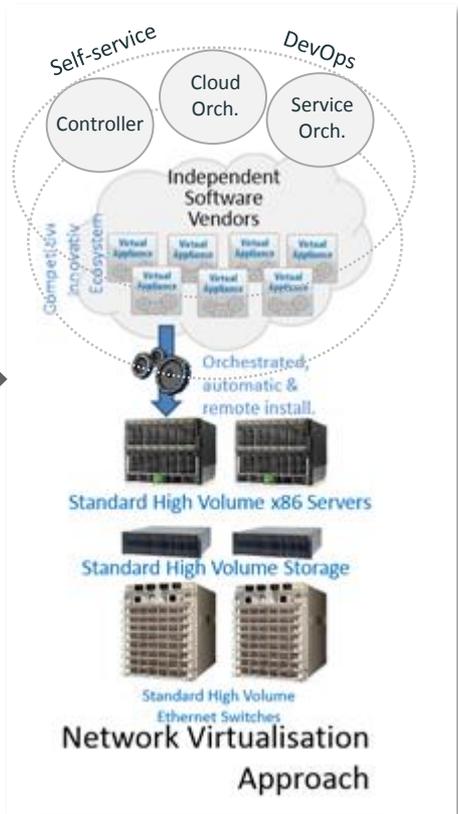
COBIT



Monitoring Complex Networks - Guiding Principles



What are the Challenges Facing SDN/NFV Assurance



COMPLEX LAYERING

Correlation w/ underlay relationship tracking

VULNERABILITY

The data-plane will crack

VELOCITY

Staying on top of relationship, visualization

END-USER DRIVEN

Service Chains, Subscribers, Tenants

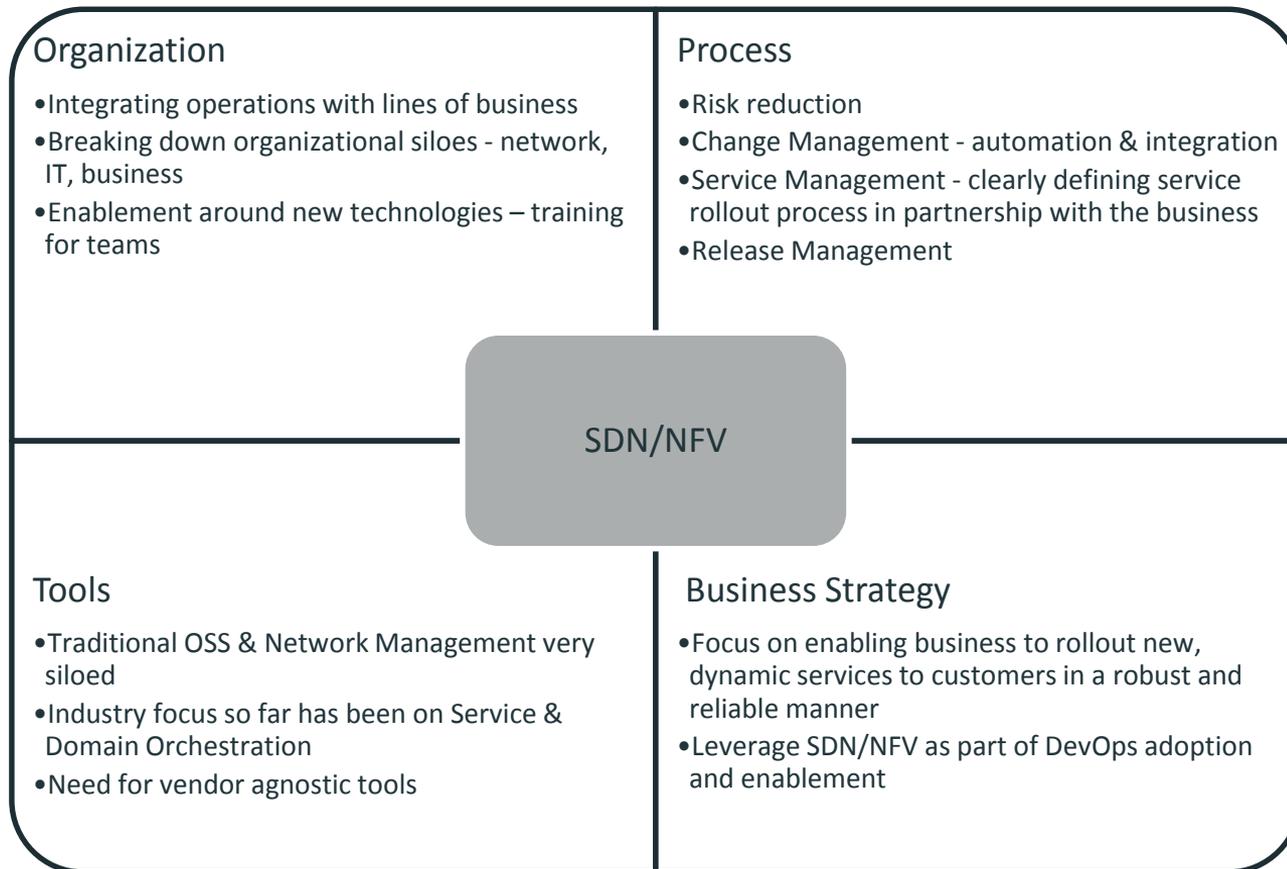
AUTOMATION

Auto-healing

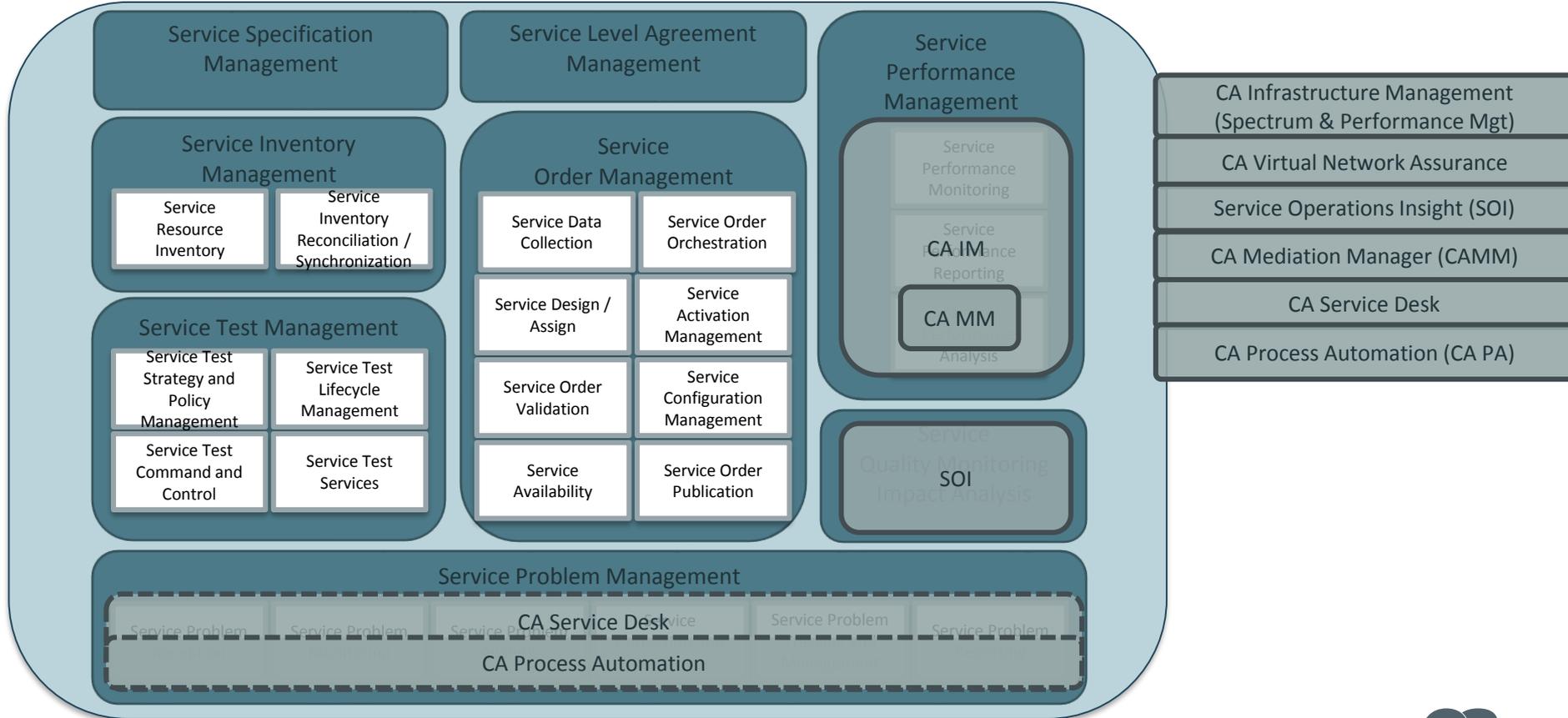
MIGRATION

How to reuse existing assets

Extending the Operational Model to SDN/NFV: Addressing key pain points in rolling out a disruptive technology



Extending the Service Lifecycle to Virtualized Networks





in