

June-21-2019 TWNOG 3.0 :

# A Multi-Cloud Ready Environment – Data Center Anywhere

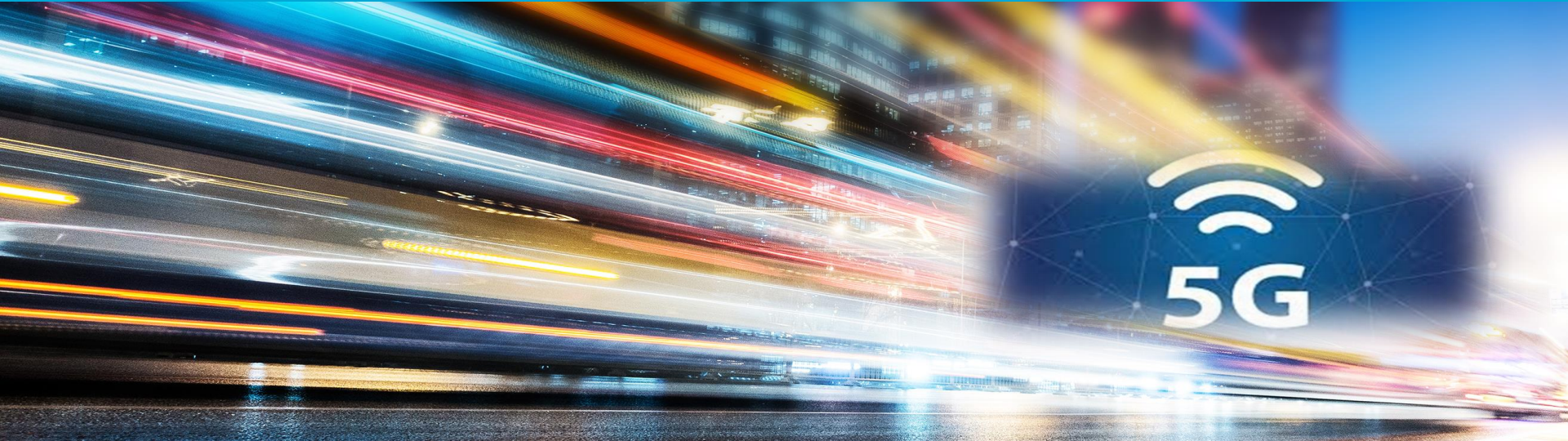
Trends & Challenges, New Scope & Solution Stack, Use Case

錢小山

首席技術顧問

思科大中華區數據中心架構事業部

二〇一九年六月



# Trends & Challenges

# Top 10 Market Transitions That Could impact your Business in 2019



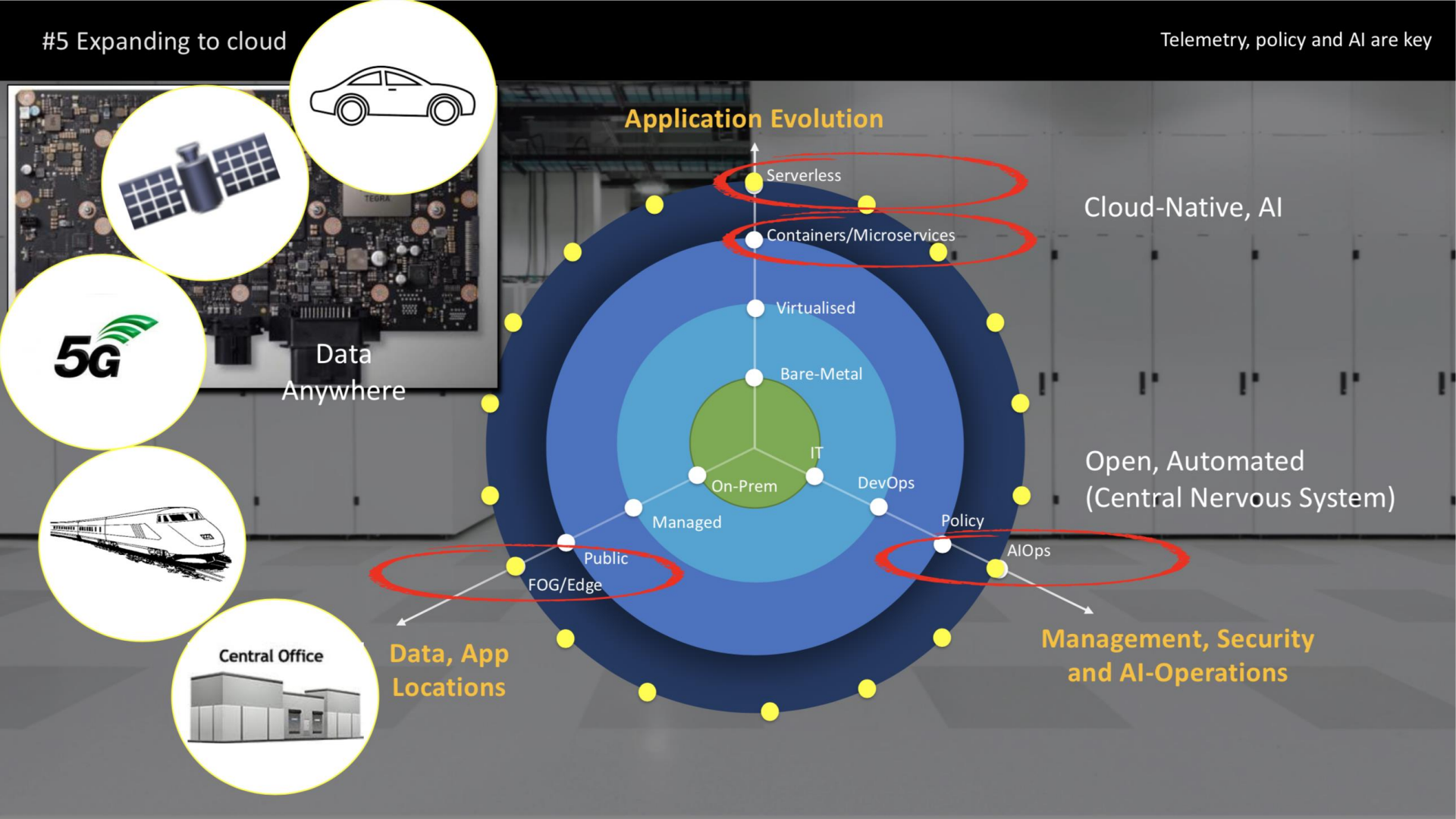
*“Enterprises weren’t  
**moving** to the cloud — they  
were **expanding** to the cloud”*

David Goeckeler  
Cisco EVP Engineering



#5 Expanding to cloud

Telemetry, policy and AI are key



# Customer Challenges



## Reducing Complexity

Hampers speed, security,  
service delivery, scale



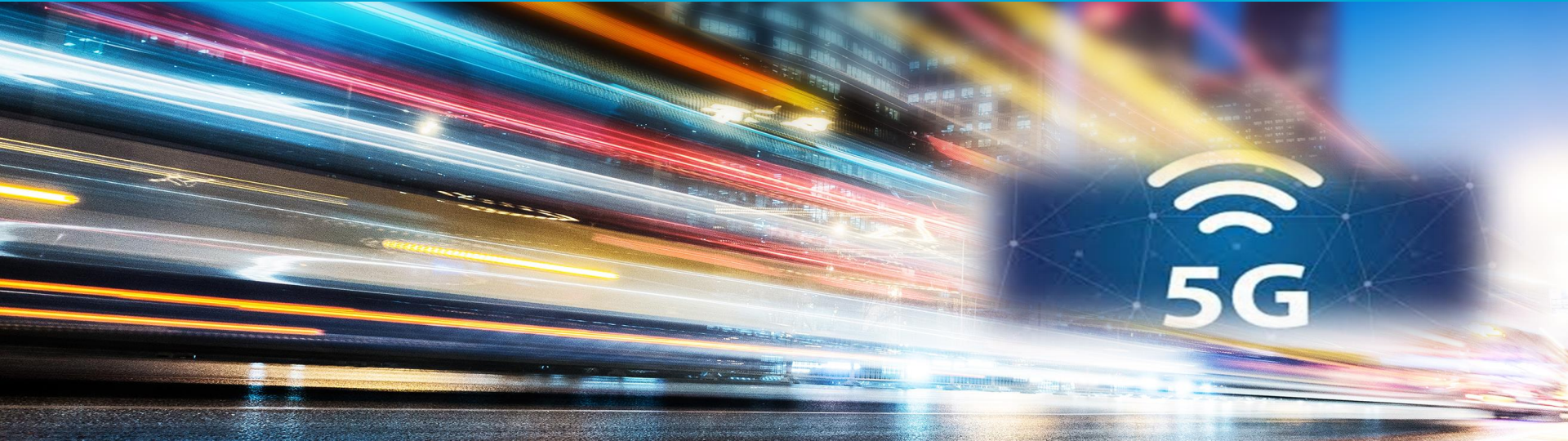
## Multicloud Reality

Developers demand choice;  
business demands  
economics



## Evolving App Architectures

Microservices and  
distributed applications  
on/off prem



# New Scope & Solution Stack



# New Scope

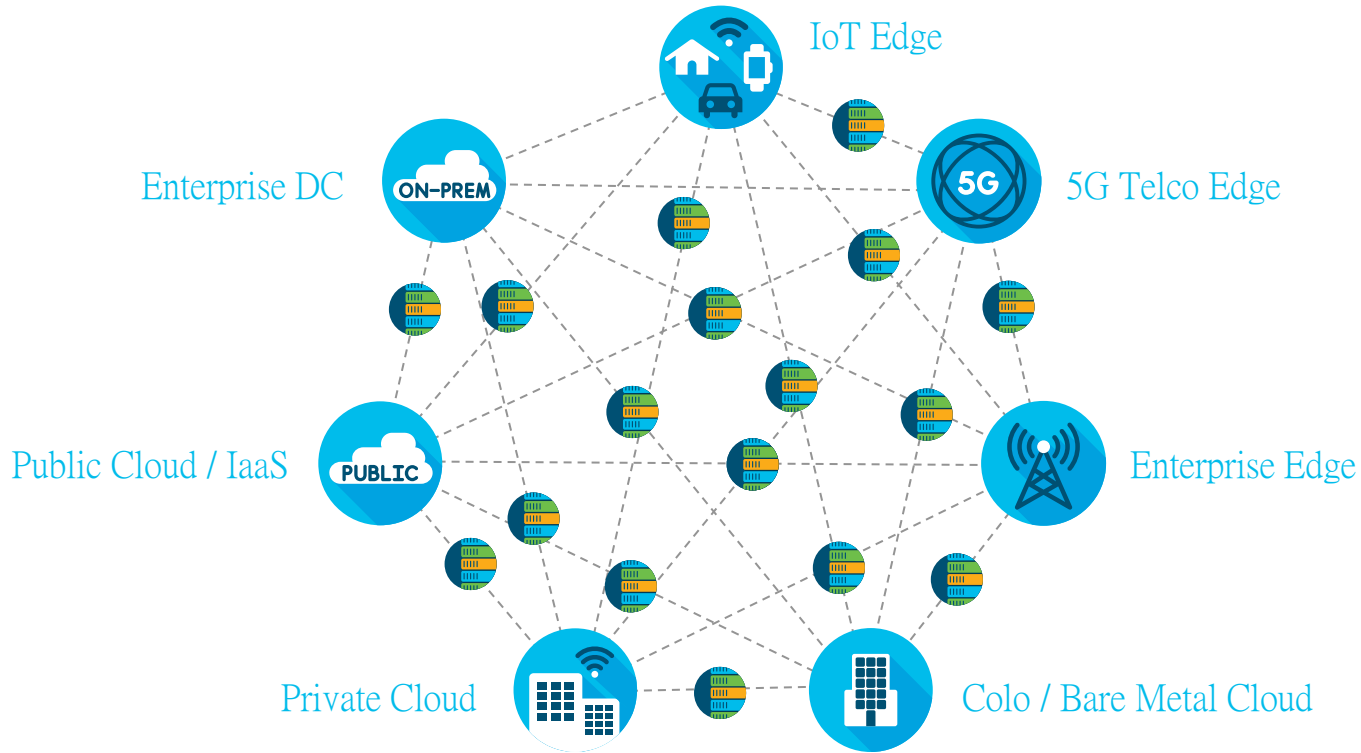
The data center is no longer  
a place or fixed location

It's defined as wherever the data  
is created, processed and used





# The Data Center Needs to Go Anywhere Your Data Is



# Data Center Anywhere : Key Domain



Edge / Remote



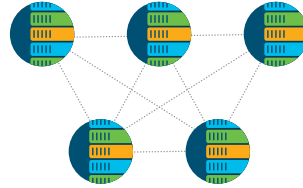
Core Data Centers



Multicloud



*Extend the Data Center  
efficiently to new sources  
of demand*

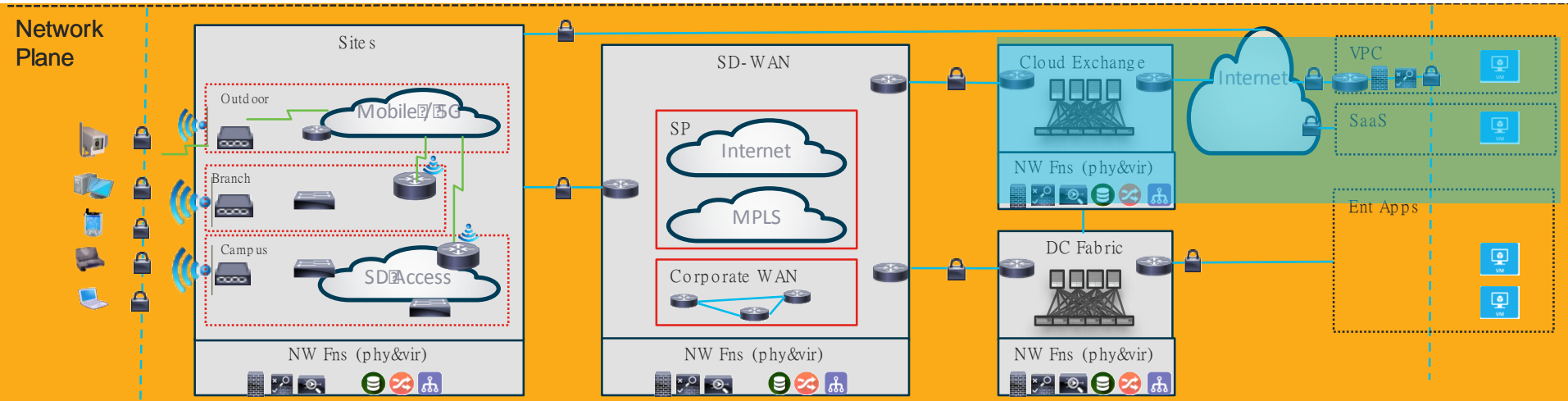


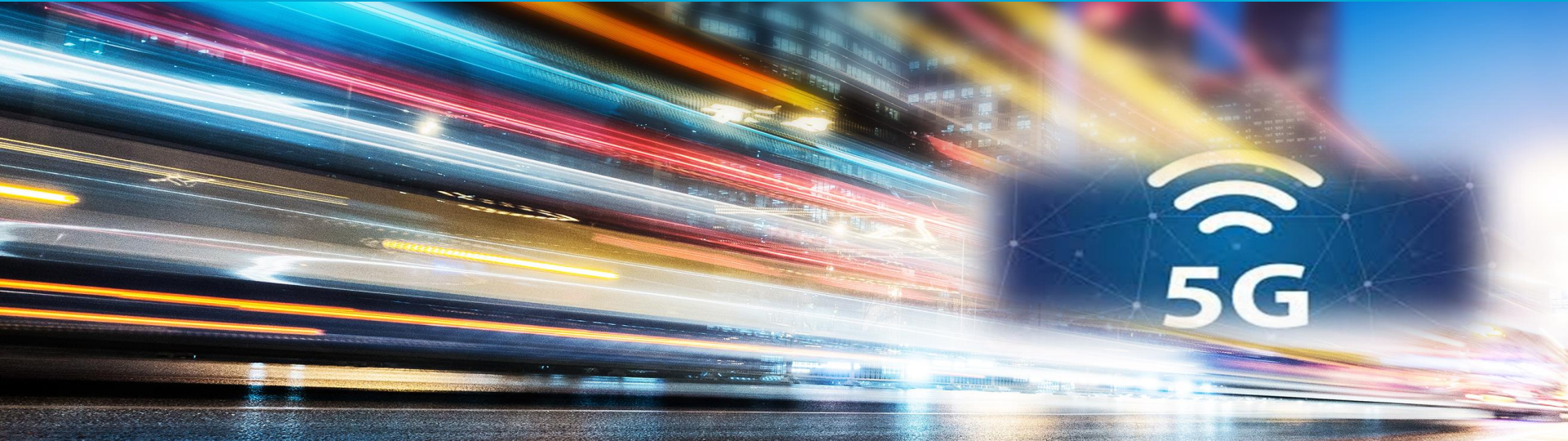
*Deliver cloud-like experience  
for apps/data that must stay on-  
prem*



*Create a consistent, integrated  
application environment*

# A high-level Enterprise Network Model



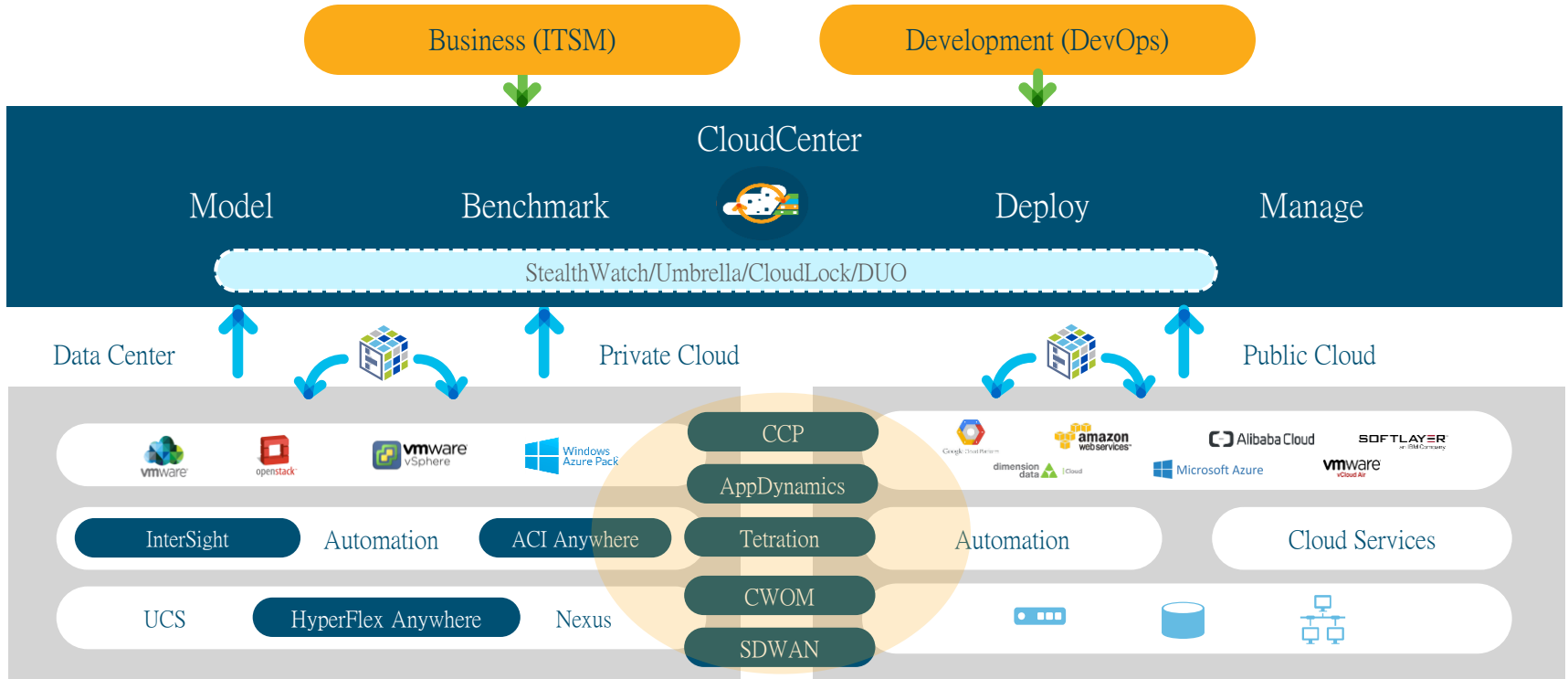


# New Scope & **Solution Stack**

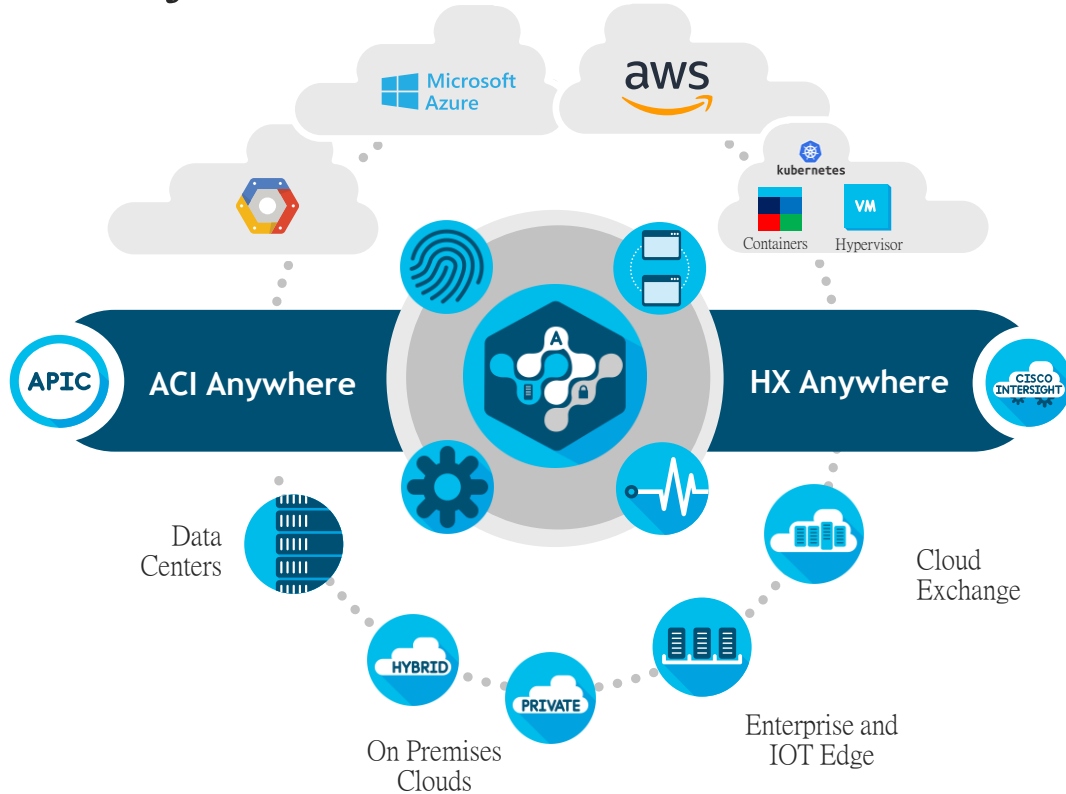


# DC Anywhere Business-Centric Solution Stack

## For Potential MultiCloud Customers



# Data Center Anywhere





# ACI Anywhere



Edge / Remote

Core Data Centers

Multicloud

Virtual ACI



ACI



Cloud ACI



ACI Multi-POD

ACI 2.0



ACI Multisite

ACI 3.0

ACI Remote Leaf

ACI 3.1

Virtual ACI

ACI 4.0

Cloud ACI

Cloud ACI

1H CY'19





# HyperFlex Anywhere



Edge / Remote



Core Data Centers



Multicloud



## HyperFlex Edge

Ultra-Light, Cloud Managed

NEW



## HyperFlex



## Hybrid Cloud Stacks

Cisco Container Platform; On-Prem Container Environments



HX 1.0

HX 2.0

HX 3.0

HX 4.0

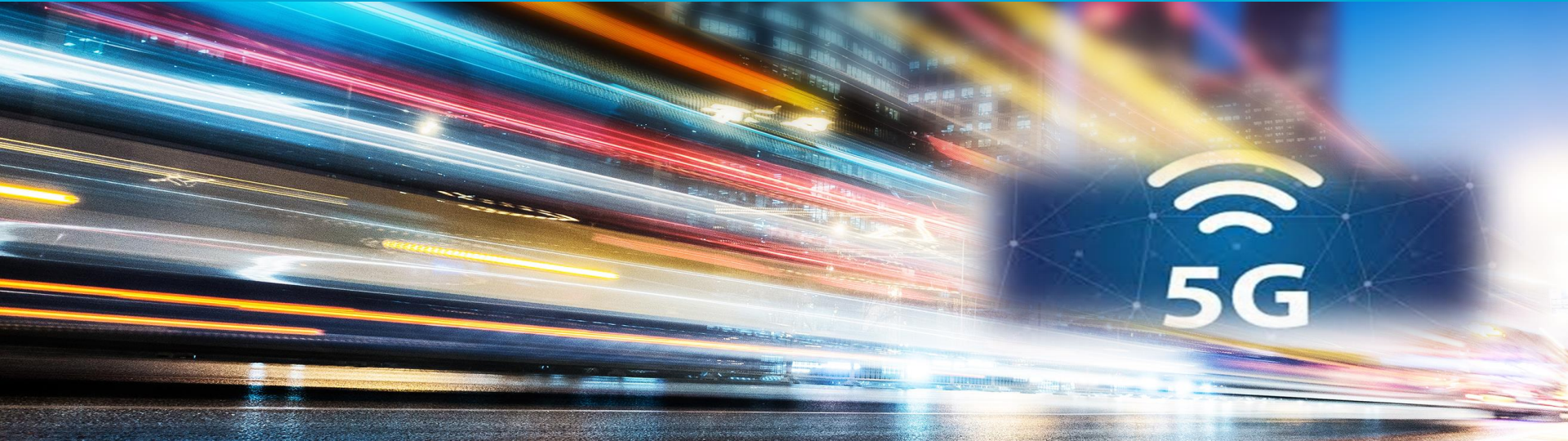
Simplicity

Any App

Multicloud

Anywhere



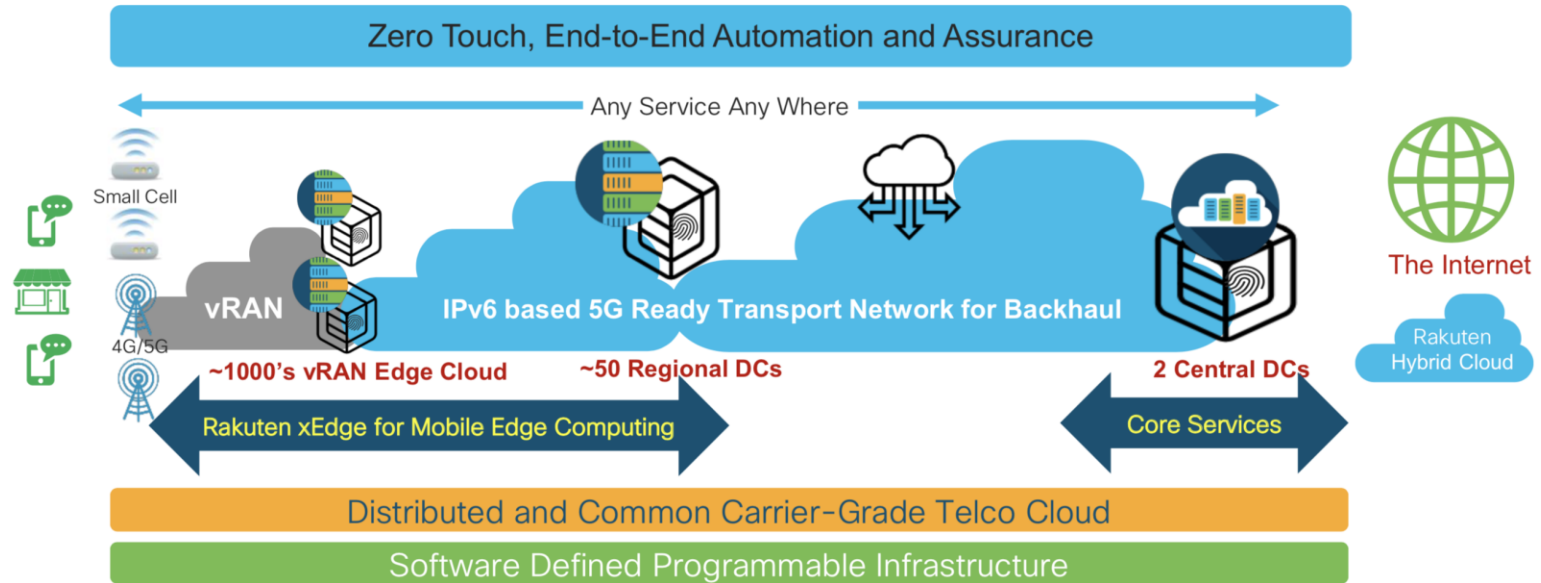


# Use Case



# Example – Rakuten Mobile Network

Cisco Providing Telco Cloud with NFVI+MANO, WAN, Telco DC, vEPC and SI Services

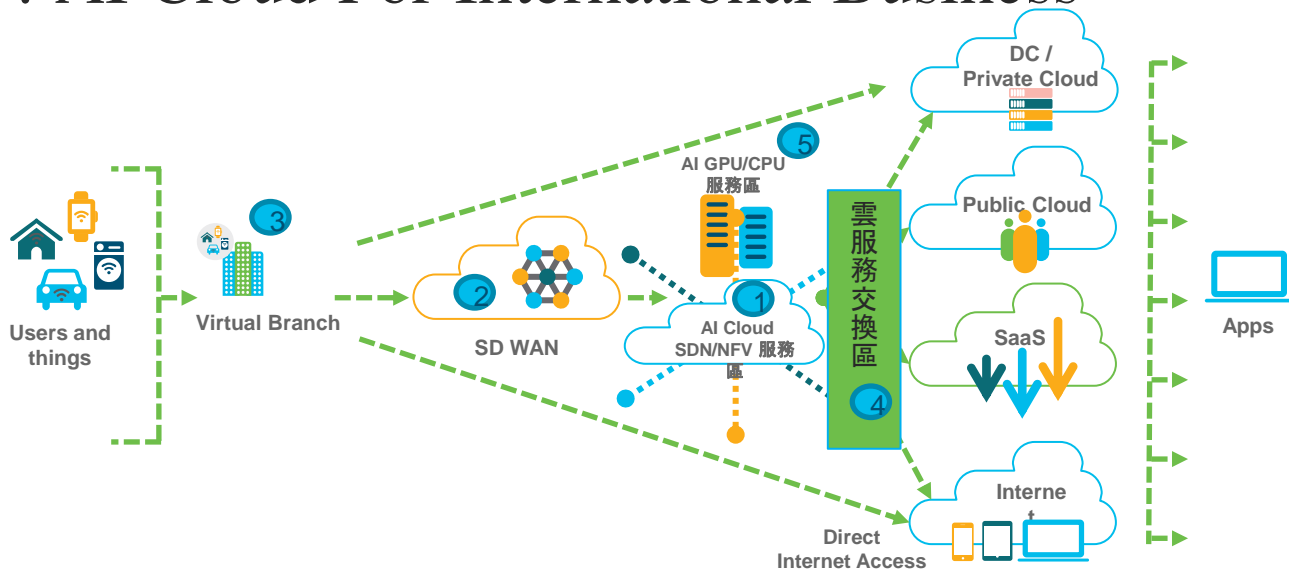


**Fully Virtualized from RAN to Core, Edge Computing, Software Defined Mobile Operator**

<https://www.cisco.com/c/en/us/solutions/service-provider/mobile-internet/reimagining-mobile-network.html>

<https://blogs.cisco.com/sp/enabling-rakuten-cloud-platform-with-cisco-nfvi-and-orchestration-solutions>

# 用例：AI Cloud For International Business



1. AI Cloud SDN/NFV 服務區
2. AI Workload 的连接服務, 解决頻寬不足, Performance 不佳及安全保障的問題
3. 客戶端 NFV 服務
4. 容器服務
5. AI vGPU/vCPU 服務

Thank You

