

DIGITAL TRANSFORMATION PLATFORM

Accelerating change by building on the present

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Product Manager

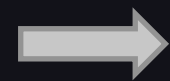




Digital Transformation

Digital transformation is about how to modernize and/or disrupt the way:

- 🕸 Your internal processes work
- 🕸 You interact with your customers
- 🕸 You bring your products to market



People and technology



Disruption

Are we able to withstand the wave of innovation coming from startups?



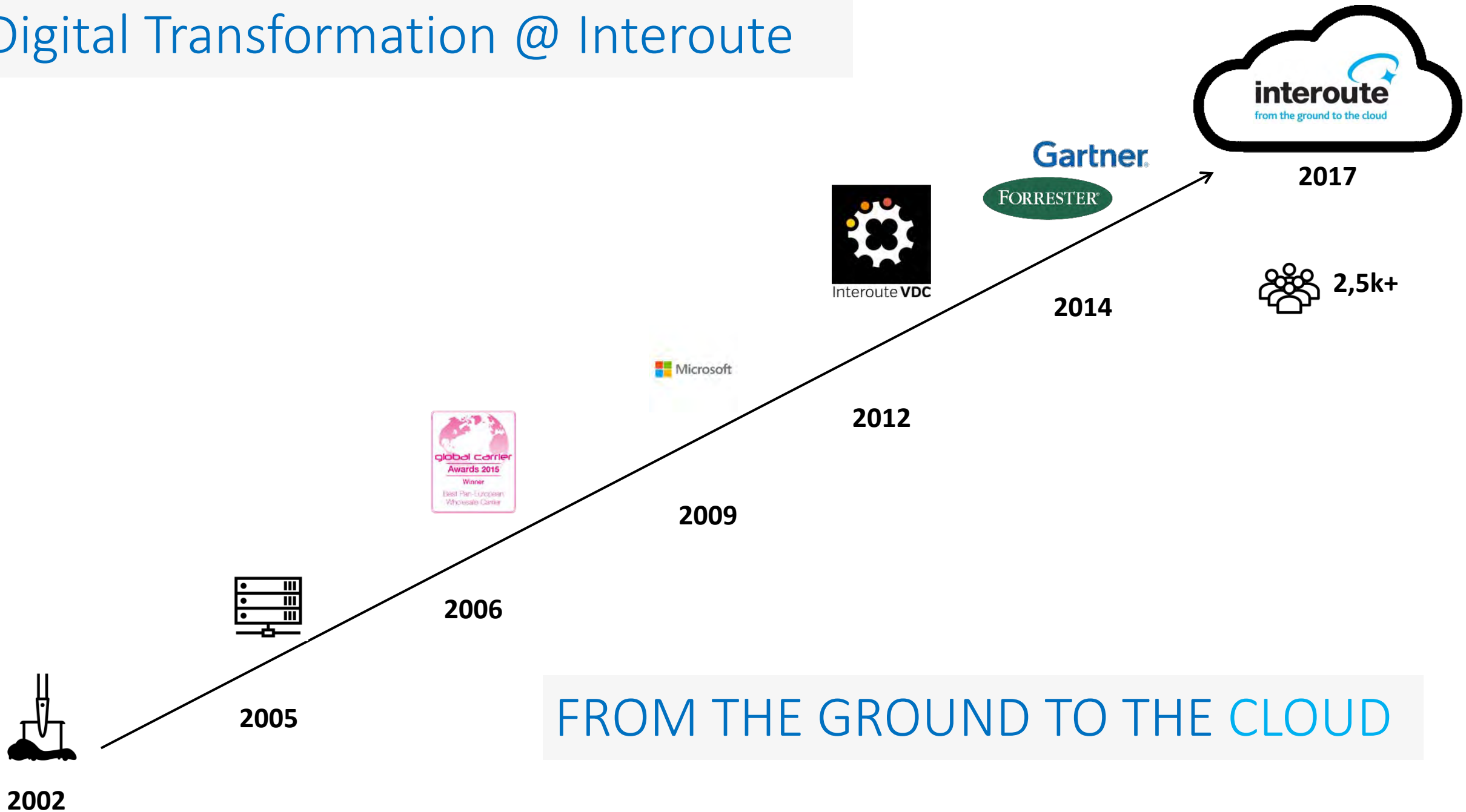
Are we future proof?



How do we optimize?



Digital Transformation @ Interoute



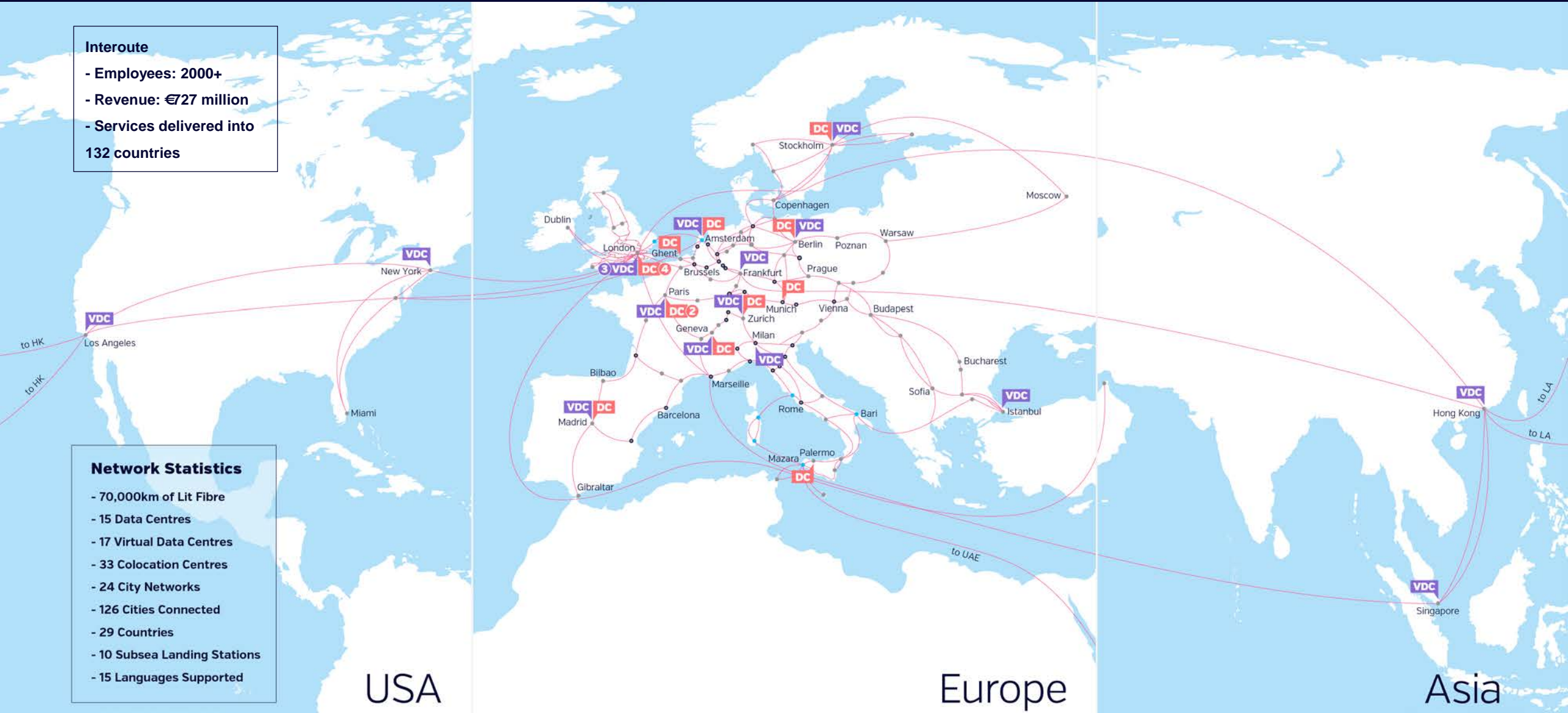
Interoute at a glance

Interoute

- Employees: 2000+
- Revenue: €727 million
- Services delivered into 132 countries

Network Statistics

- 70,000km of Lit Fibre
- 15 Data Centres
- 17 Virtual Data Centres
- 33 Colocation Centres
- 24 City Networks
- 126 Cities Connected
- 29 Countries
- 10 Subsea Landing Stations
- 15 Languages Supported



USA

Europe

Asia

Interoute – The Digital Transformation Platform

END TO END SECURITY & APPLICATION DELIVERY



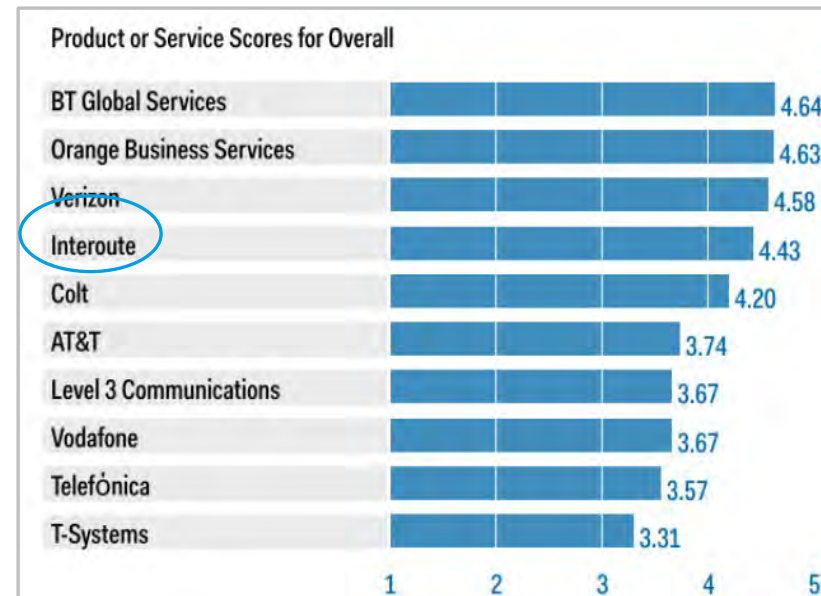
External Validation

Gartner
2016 MAGIC QUADRANT
MANAGED HYBRID CLOUD HOSTING,
EUROPE

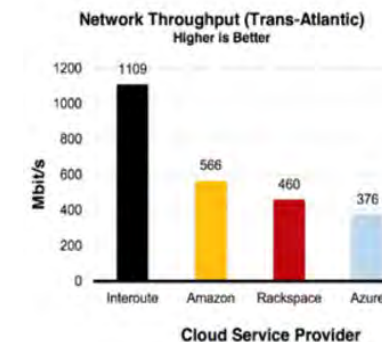


Gartner MQ Managed Hybrid Cloud Hosting, Europe, June 2016

Gartner
CRITICAL CAPABILITIES
FOR NETWORK SERVICES,
PAN EUROPEAN



Gartner Critical Capabilities for Network Services, Pan European, January 2016



- ISO 9001
- ISO 14001
- OHSAS 18001
- ISO 20000
- ISO 22301
- ISO 27001
- PCI DSS
- ISAE 3402 / SSAE 16 (SOC1 &2)
- BSI
- GRUNDSCHUTZ
- FINMA
- UK G-CLOUD
- ITIL FRAMEWORK
- CAS /DNSP (PSN)

Some of our customers



Transformation is company driven, but about people

CTO/CIO/CEO

Transform the business

Greater flexibility

Driving 'cloud first' strategy

Infrastructure and Operations

24/7/365 lights on

Operating legacy/core platforms

Governance

Business integration

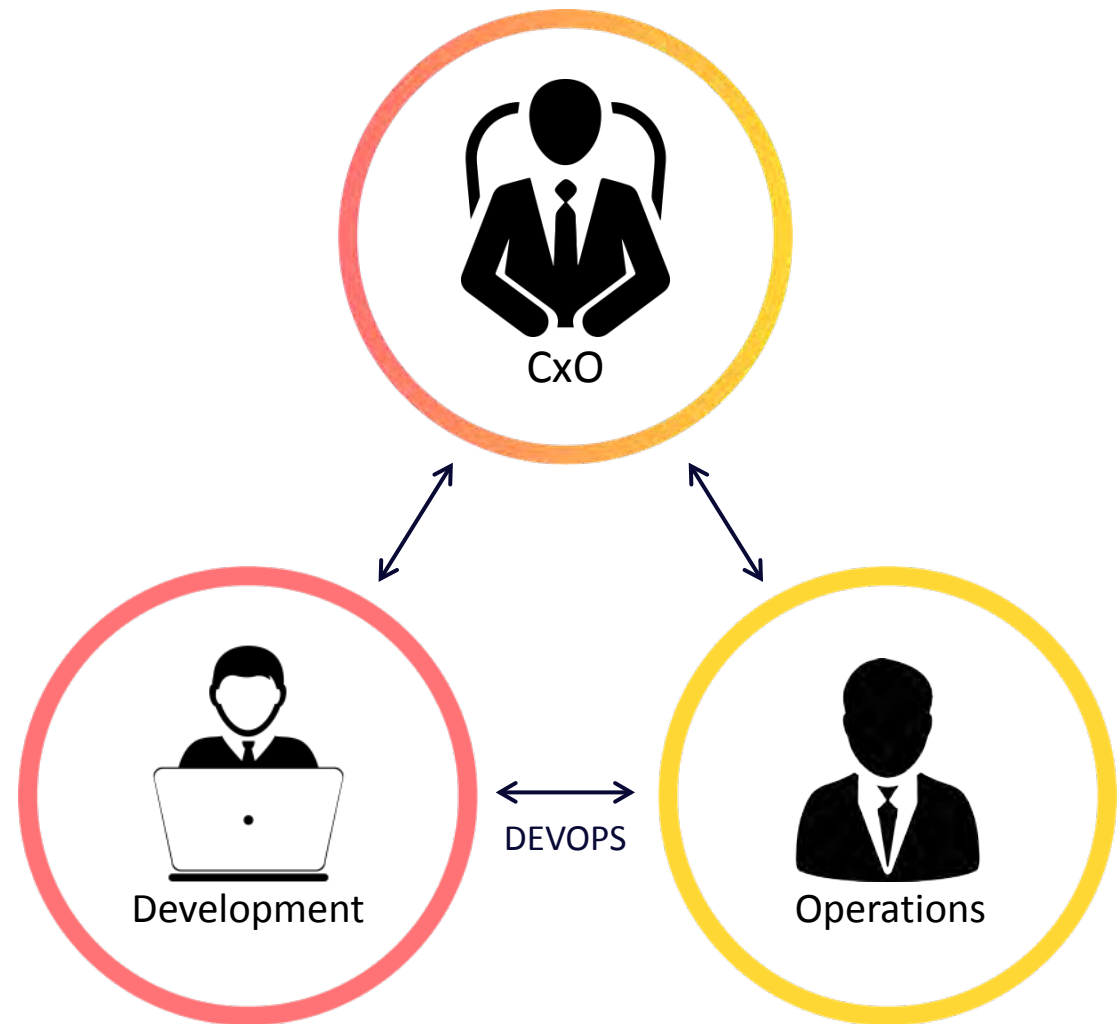
Developers

Building the evolution

Driving towards DevOps

Natively cloud

Want the new



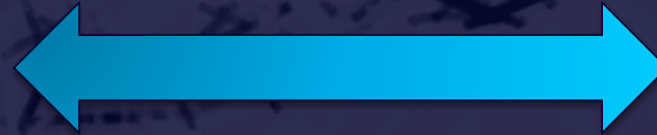
Bimodal IT – The Enterprise Dilemma.



Mode 1
Traditional/Legacy ICT



Waterfall Type
Project Management



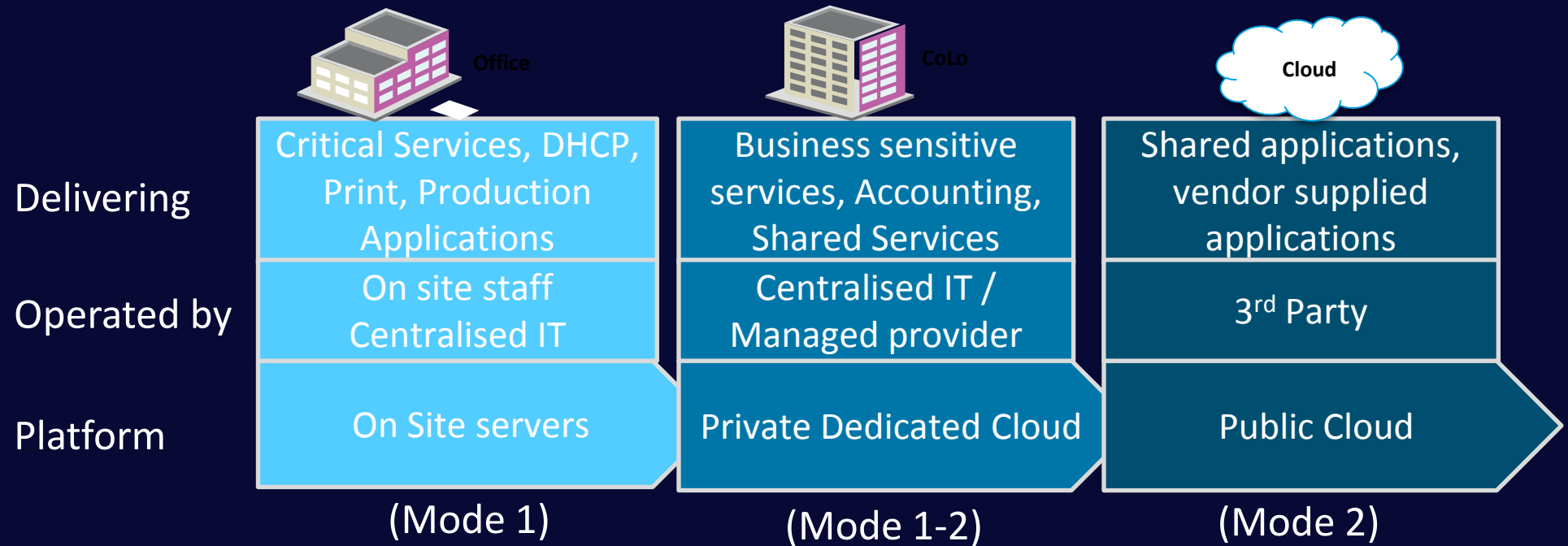
Mode 2
Continuous Delivery



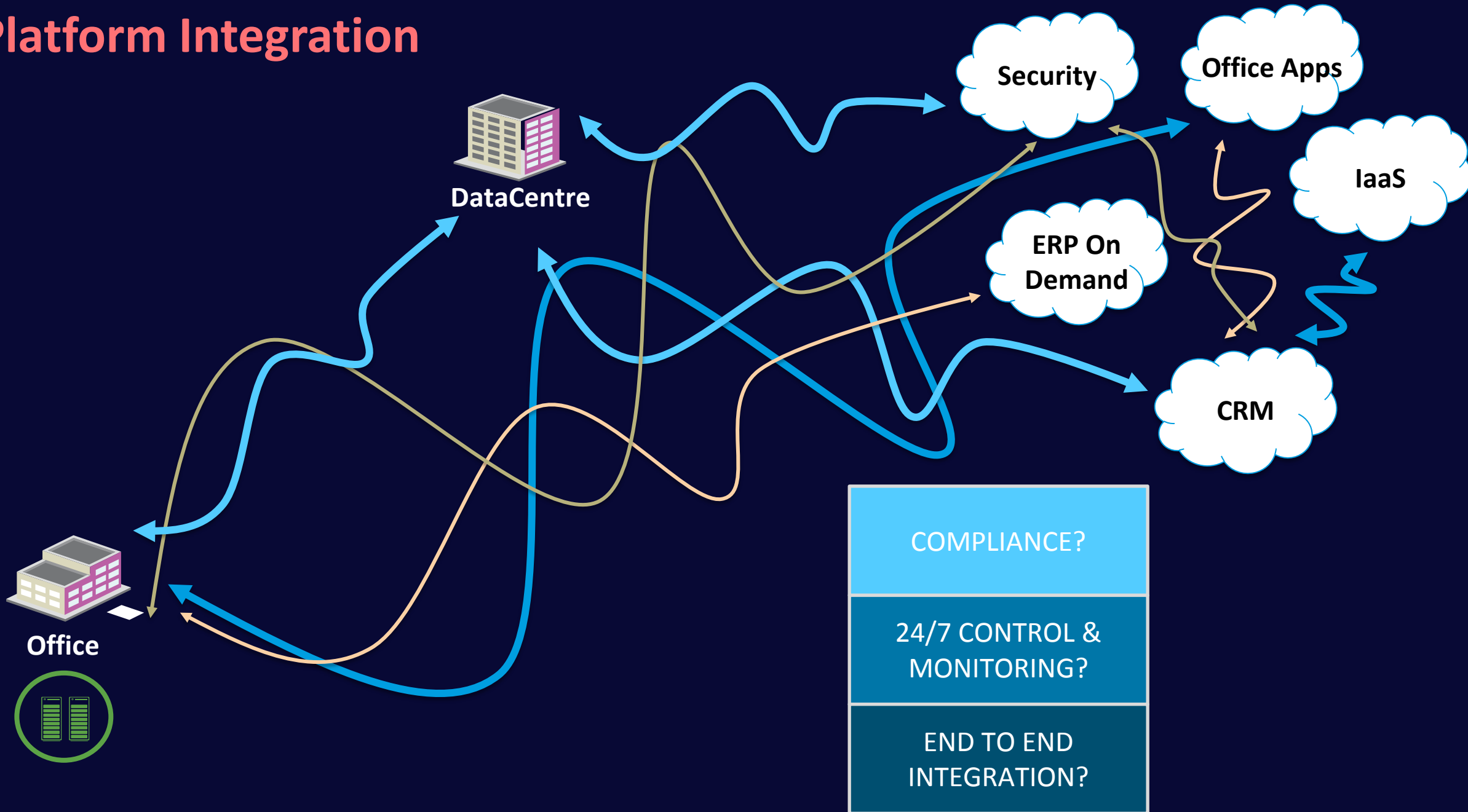
Agile
Project Management

Not all platforms are cloud ready, or able to leave IT

- How
- What
- When



Platform Integration



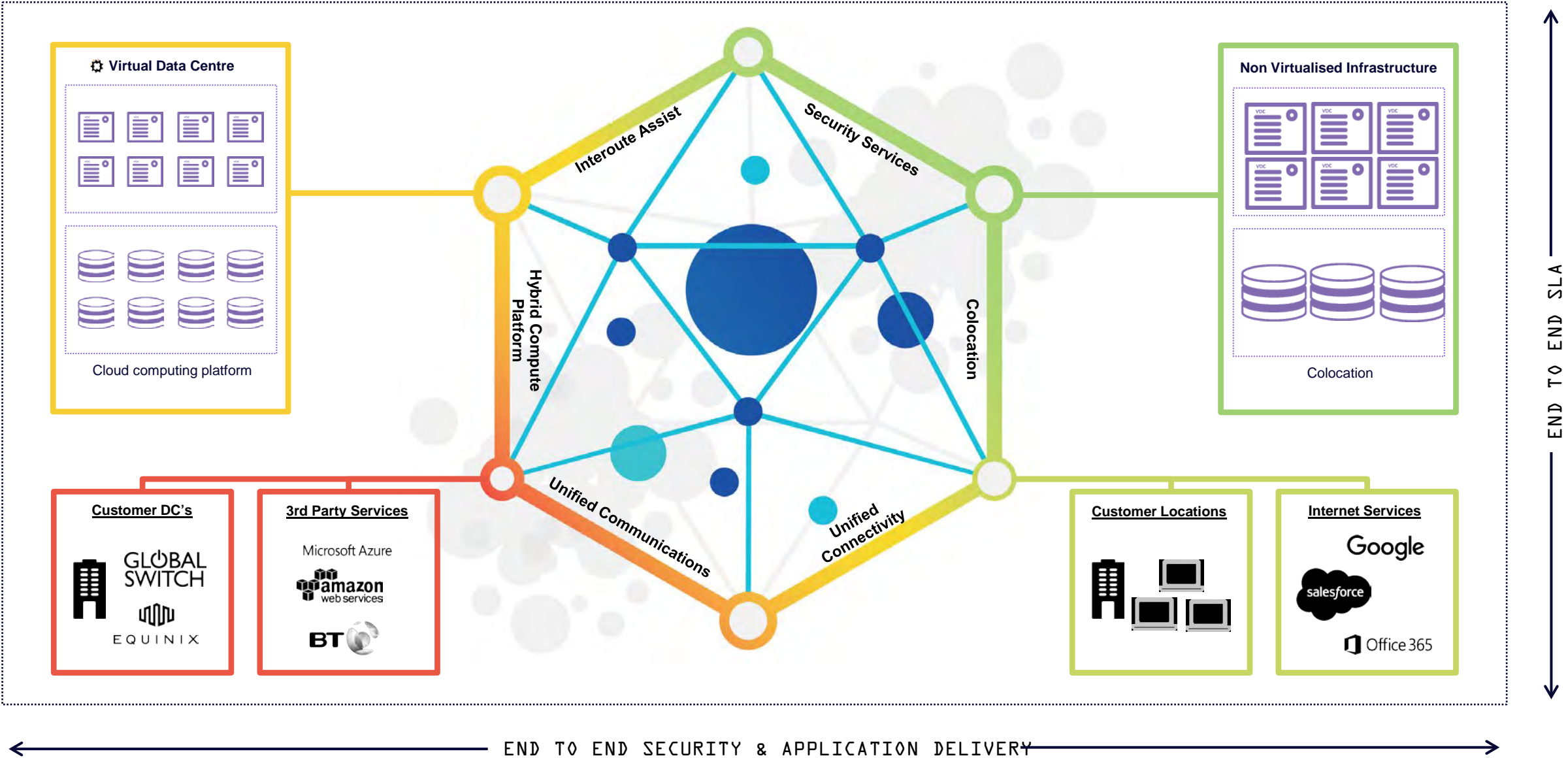
HOW INTEROUTES ENTERPRISE DIGITAL PLATFORM ENABLES TRANSFORMATION



interoute
from the ground to the cloud



INTERROUTE ENTERPRISE DIGITAL PLATFORM

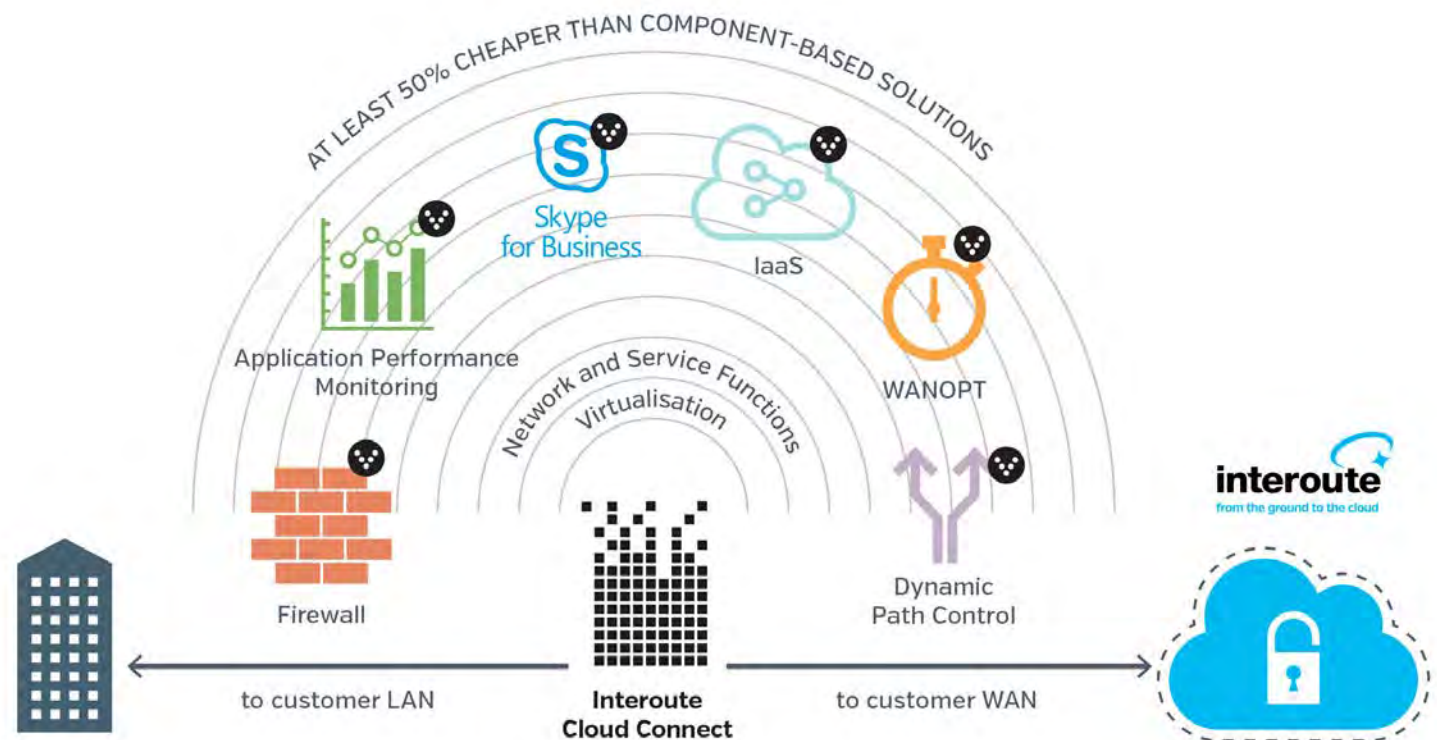


EVOLUTION OF THE EDGE – INTERROUTE CLOUD CONNECT

ON SITE ASSURANCE AND ACCESS CONDITIONING AND OPTIMISATION

Connectivity to VDC can be conditioned and assured end to end in over 132 countries through Interoute's industry leading VPN services with Interoute Cloud Connect optimising your connection to the platform and providing predictability and security. Specifically split path routing for O365 implementations combined with legacy IT infrastructure

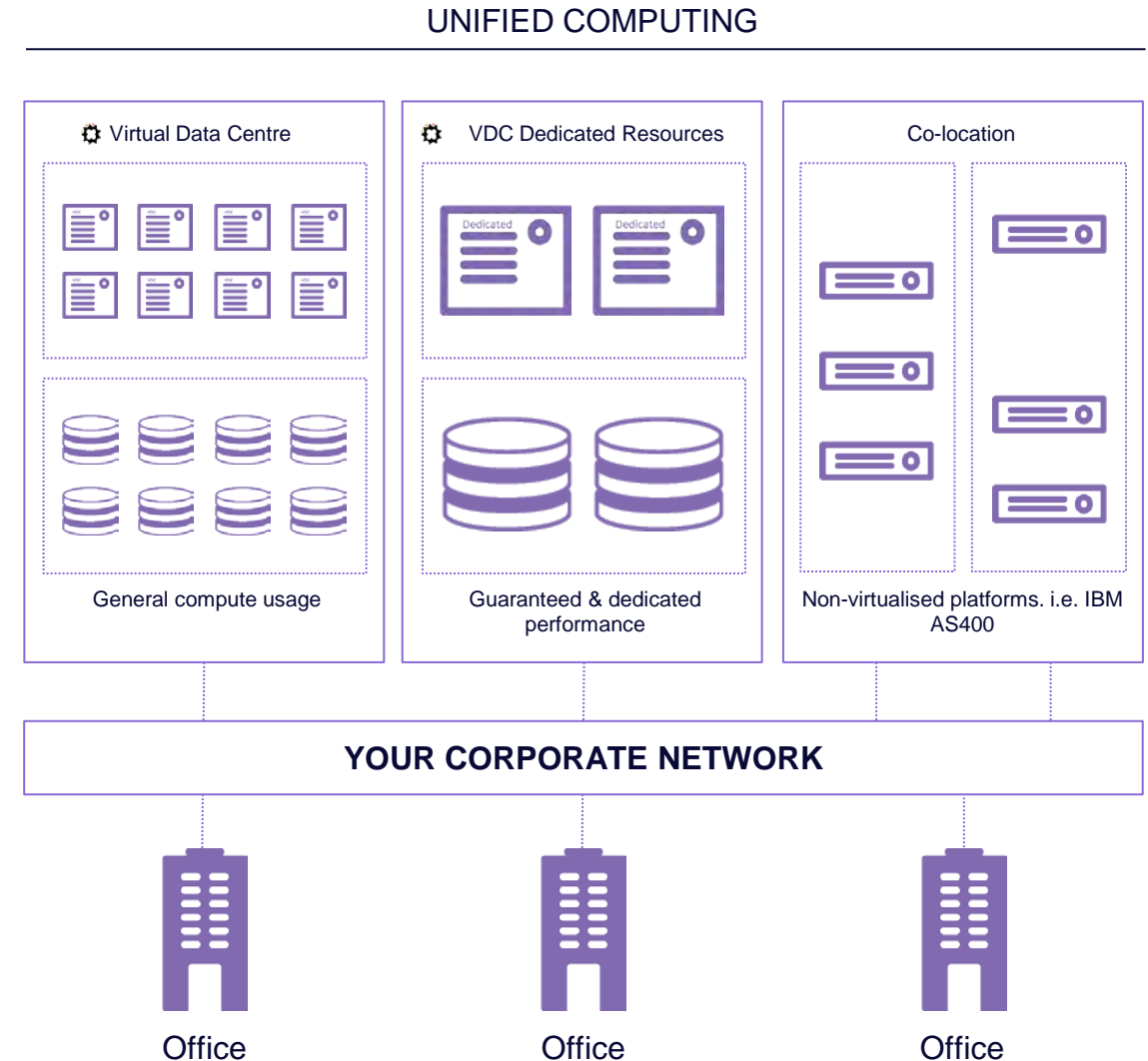
- ⚙ Multiple services across the Cloud.
 - ⚙ (SD-)WAN Optimisation.
 - ⚙ High Availability.
 - ⚙ Quality Of Service.
 - ⚙ Survivable Branch Services.
 - ⚙ On-Site DMZ.
 - ⚙ Hypervisor for additional VM deployments.
 - ⚙ Dynamic Path Control: Application Based Path Selection for Hybrid cloud connectivity.*



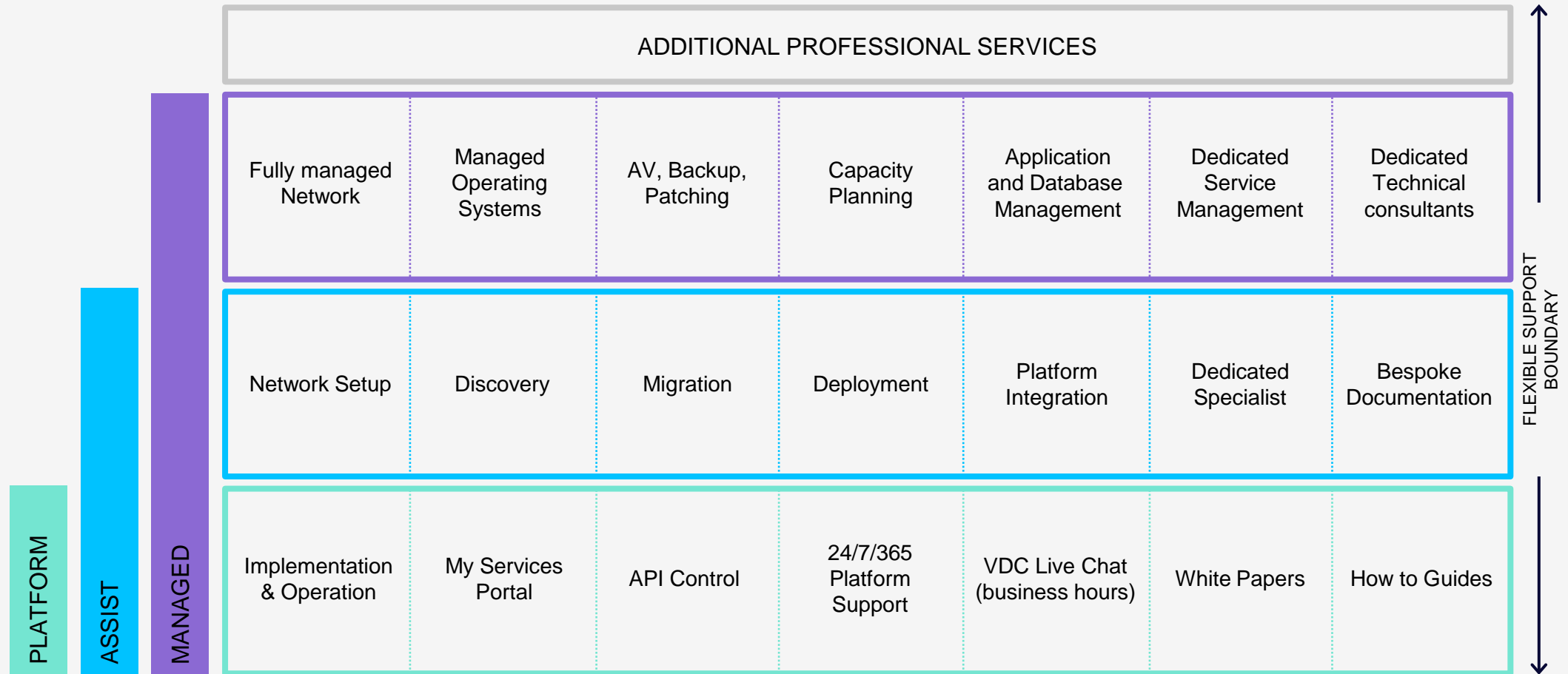
Virtual Data Centre – Private Cloud Security, Public Cloud Flexibility

Secure compute platform, built for enterprise applications

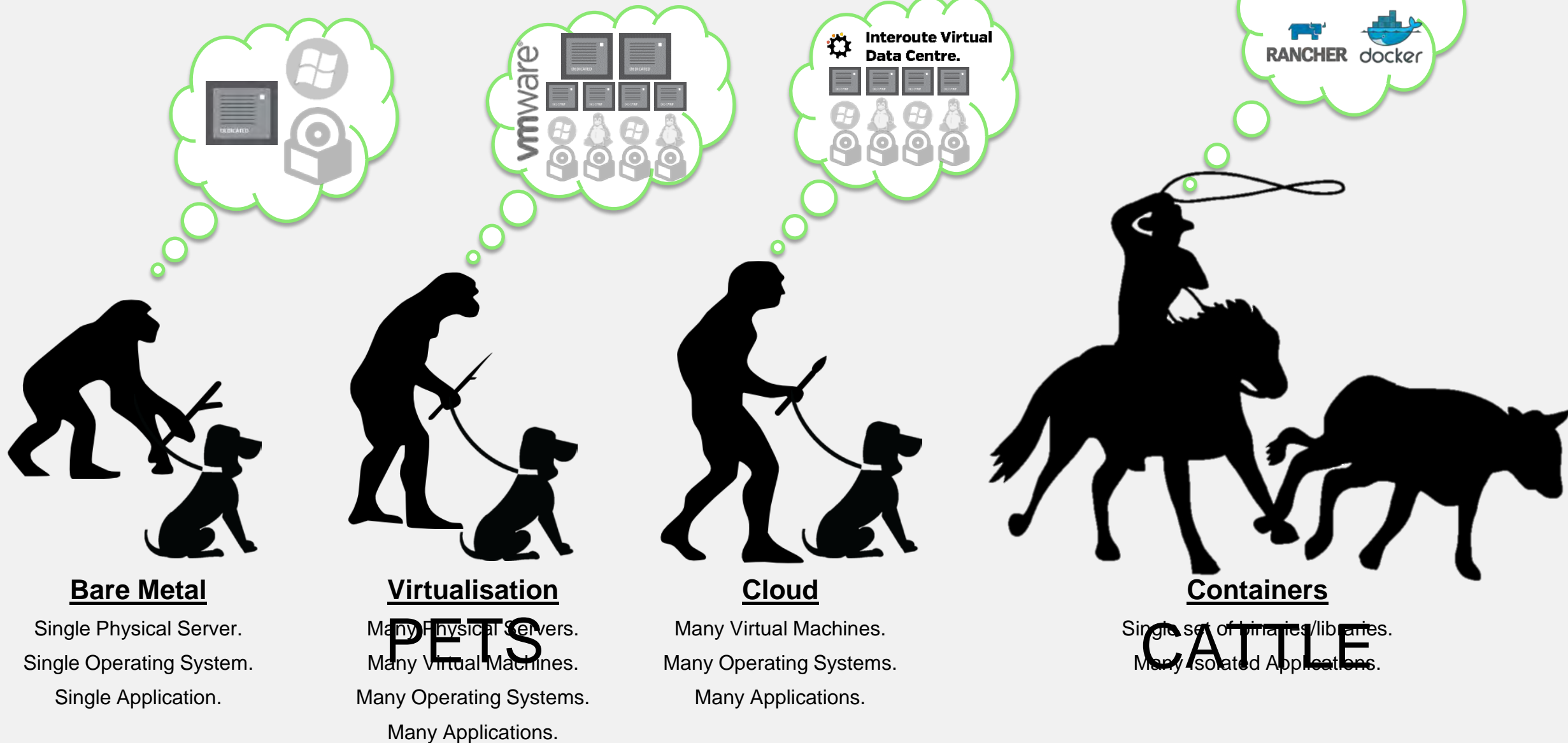
- 3 services to suit all applications
- Globally provided from 17 locations in three geographic regions
- Automated to provide flexible provisioning
- You control the platform and integration for your applications
- You control where you put your data
- No charge for data transfer or bandwidth
- Integrated, free private network



Three levels of support to choose from



Enterprises are evolving



Containers have revolutionised the way enterprises build

- Continuous Delivery Platform!
- Deploy applications faster
- Provides greater agility
- Fewer building blocks
- Developers able to focus on code
- Geographic distribution
- Reduce costs and man hours



The momentum of adoption is undeniable

- The average company increases its Docker usage 5x within 9 MONTHS¹
- There are 460K Dockerized apps, a 3100% GROWTH over 2 years²
- Docker containers have been downloaded more than 4 BILLION times³

¹ [Datadog](#), June 2016

² [Coscale](#), July 2016

³ [Docker](#), November 2016

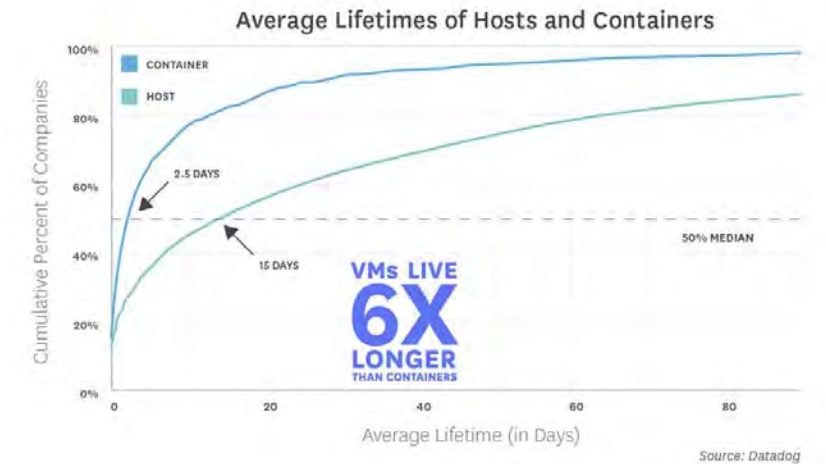


But running
containers in
production
still isn't
easy.....

↑ number tools + ↑ change = ↑ **complexity**

App Catalog	Helm
Orchestration	Compose, Kubernetes, Marathon
Scheduling	Swarm, Kubernetes, Mesos
Monitoring	cAdvisor, Sysdig, Datadog
Access Control	LDAP, AD, GitHub
Registry	DockerHub, Quay.io
Engine	Docker, Rkt
Security	Notary, Vault
Network	VXLAN, IPSEC, HAProxy
Storage	Ceph, Gluster, Swift
Distributed DB	Etcd, Consul, MongoDB

↑ density + ↓ lifespan =
↑ volatility



Some of the problems to solve with containers

- Using containers with legacy
 - How can you fully integrate containers with what you have now?
 - How do you refactor what you have?
- What is the right development approach?
 - Do you build it all yourself and try to manage the platform in its entirety?
 - What tooling should you invest in?
- The benefits of a PaaS development platform
 - Will this help you innovate faster?
 - In turn, can you save money?



Interoute
remove the
headache of
container
management

App Catalog	Helm
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RANCHER



Rancher
deployment
into VDC



**Managed
Container Platform**

Interoutes Managed Container platform with Rancher makes it easy to...

RUN CONTAINERS

with the most complete set of container and
infrastructure management capabilities

SIMPLIFY DEVELOPMENT

with a powerful, yet easy to use interface and
application catalog

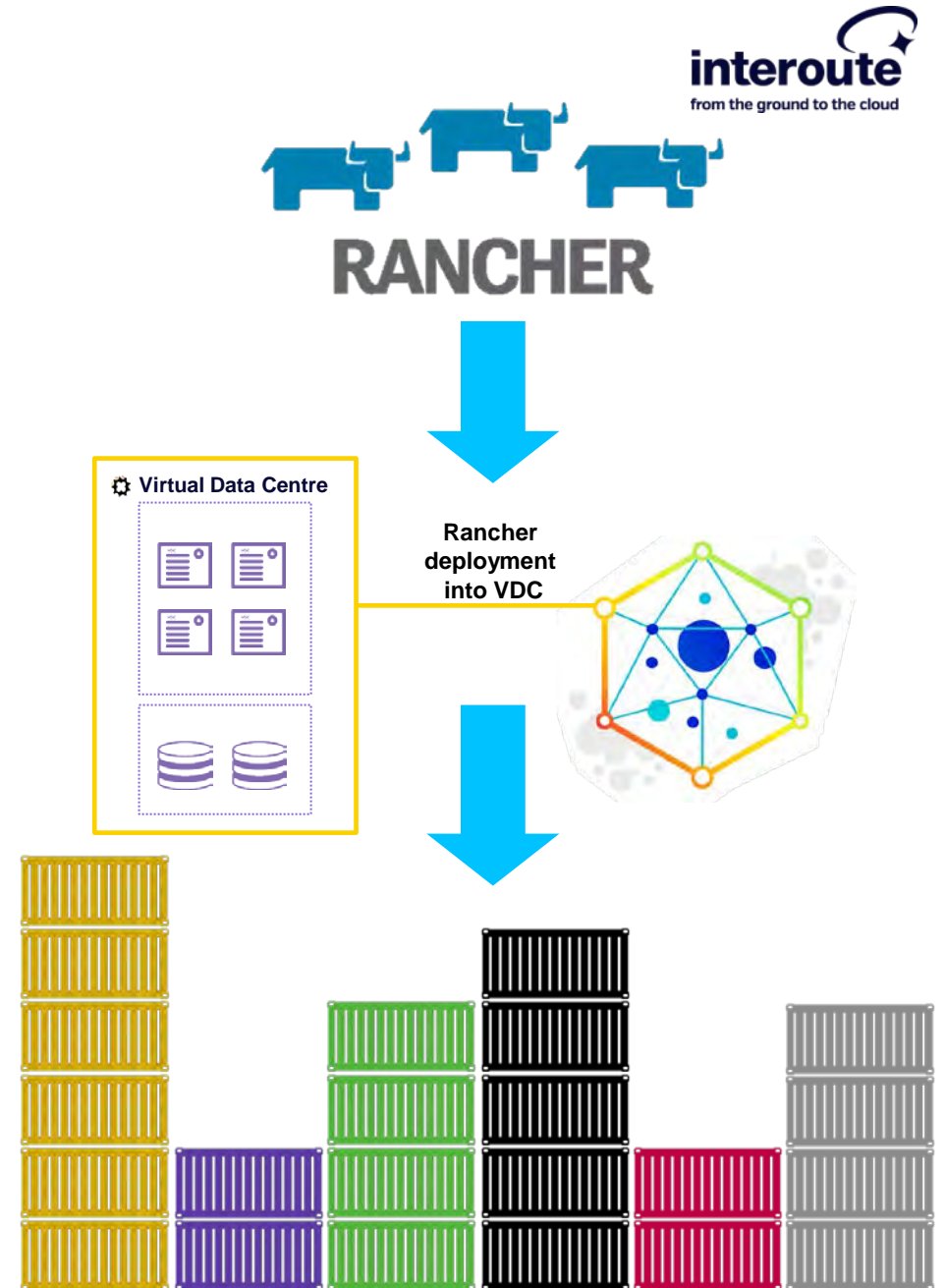
INNOVATE WITH CONTAINERS

by empowering developers with fast access to
the latest tools

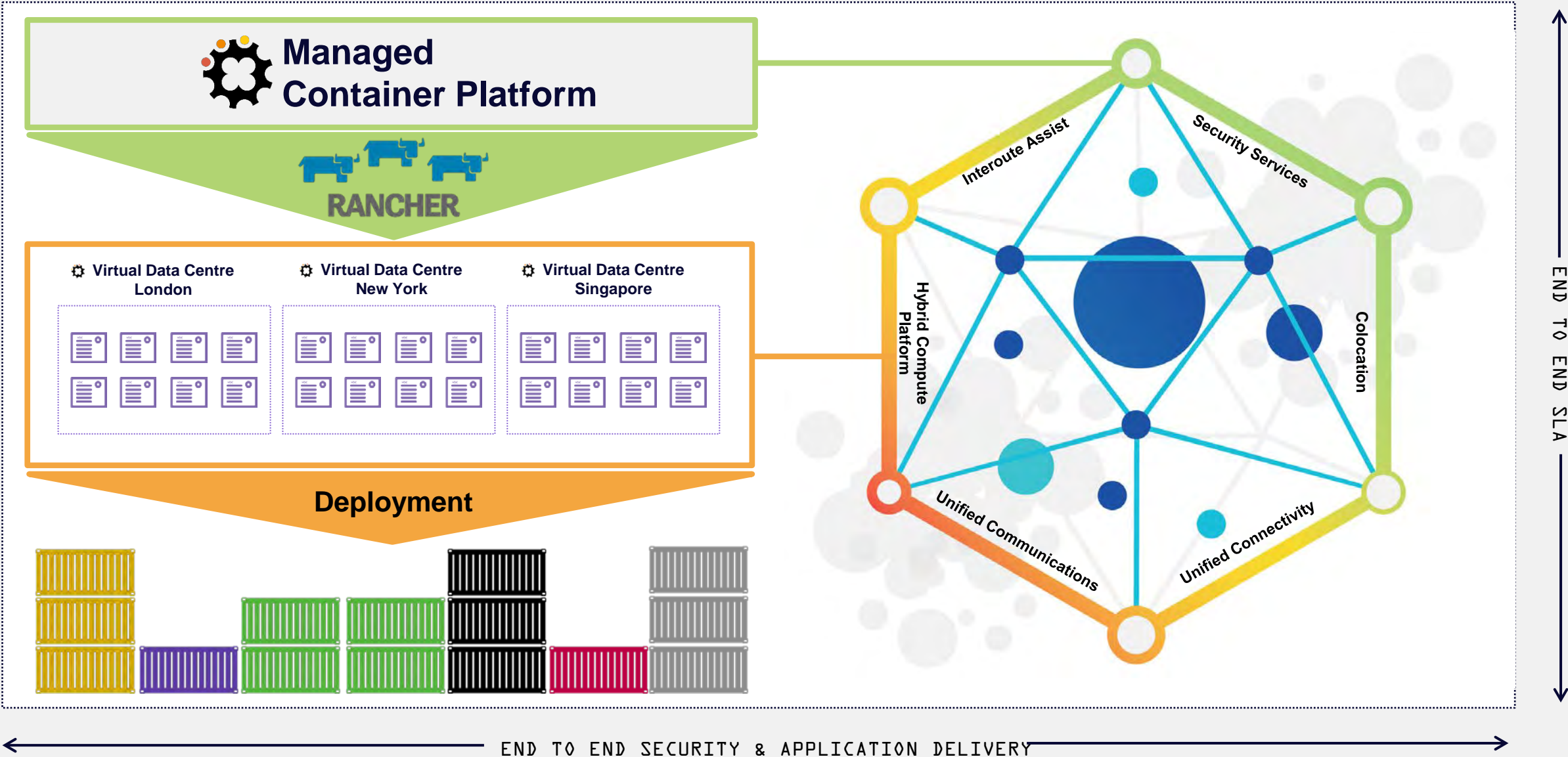


Simple deployment with fixed costs

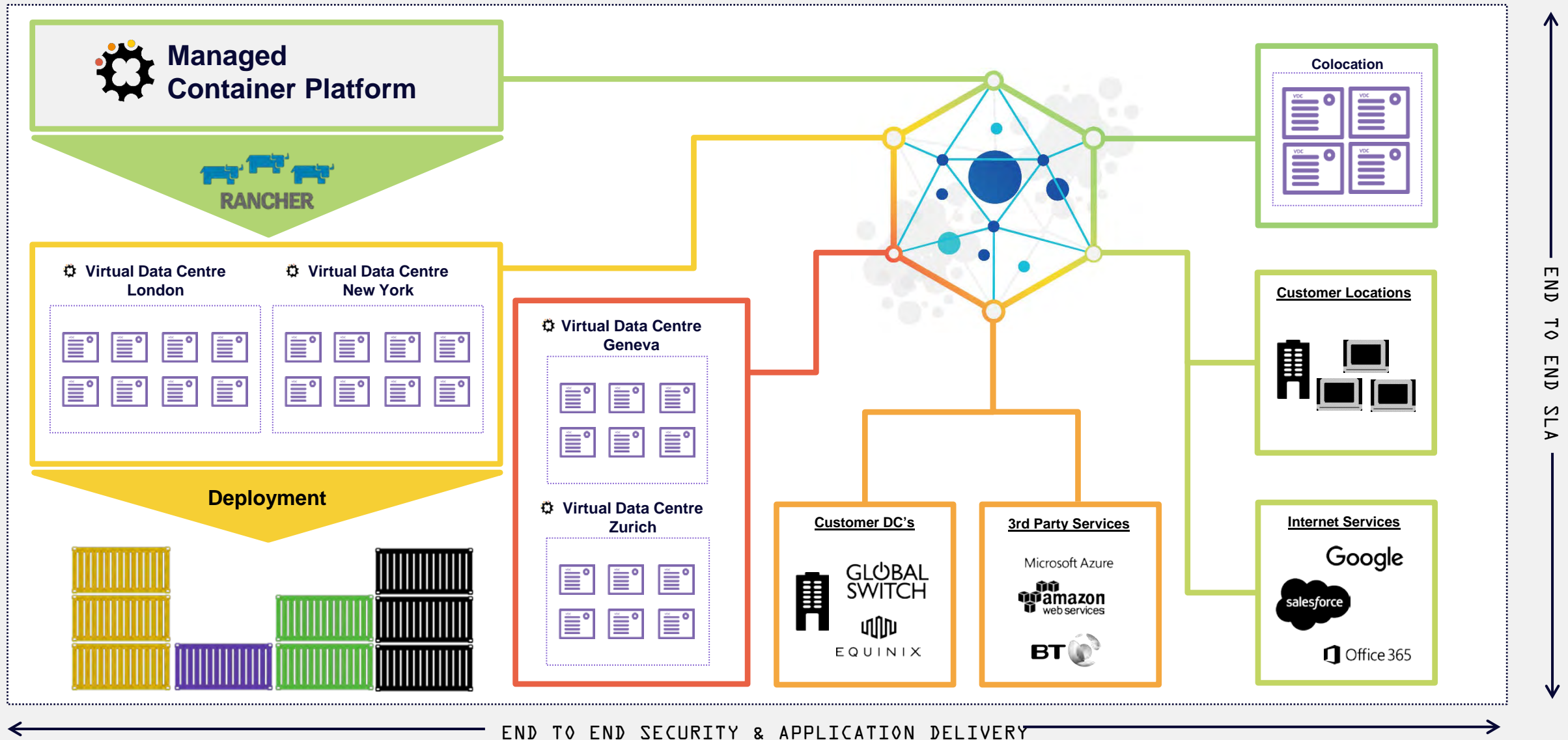
- Fully automated, simplified, best practice clustered deployment.
- Create your cluster with as many machines (as many as you like) anywhere in the world.
- Each machine is privately addressed with internet breakout in each location.
- No fixed sizing.
- Huge scaling capability, with full control and security over network boundaries.
- No charge for data transfer or bandwidth.



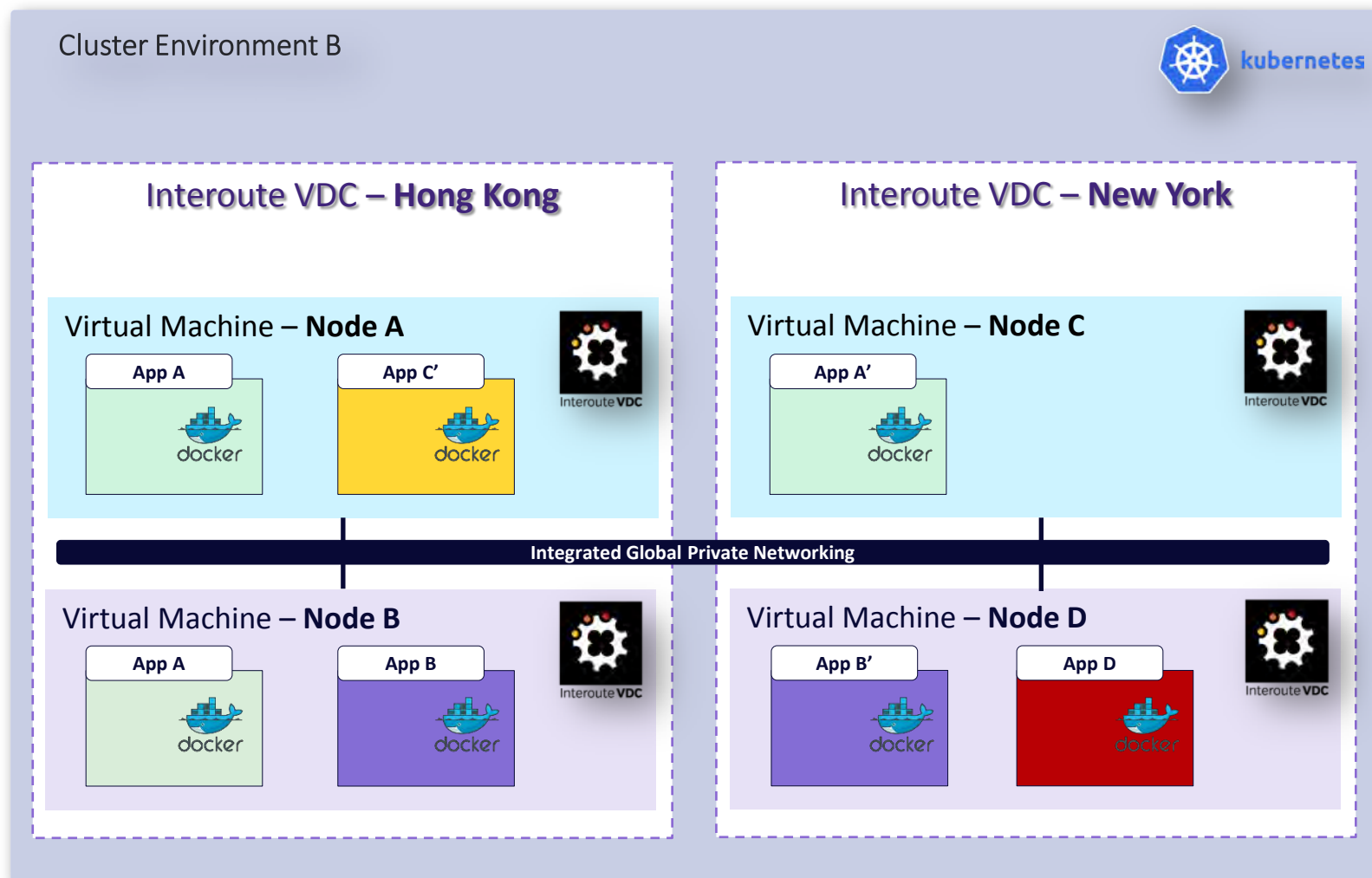
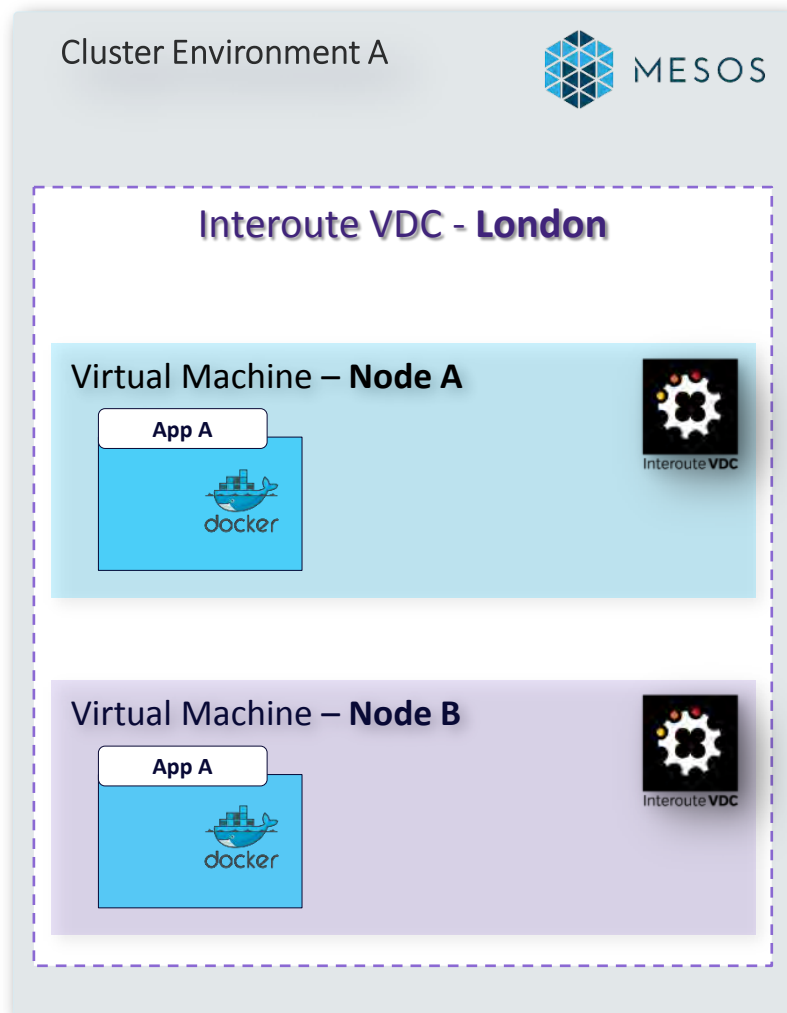
Distributed solutions are simple



Integration with what you have now



Container and Scheduler Orchestration



Some of the problems to solve with containers

- Using containers with legacy
 - If you don't have a greenfield site, integrate, as you evolve
 - Don't do it alone, utilise help as needed to migrate
- What is the right development approach?
 - Choose the right platform with integrated tools allowing you to reinvest in development
- The benefits of a PaaS development platform
 - Ensure that platform has manageable, known costs.
 - Scale out to across multiple locations



THANK YOU

*Come along to our stand to see our
products in action or for more information.*

Alexander Grendel

Cloud Computing Products

E – alexander.grendel@interoute.com

W – cloudstore.interoute.com

