



Revolutionizing Tomorrow: Unleashing the Power of Modern Connectivity into Private Cloud and AI Innovations

INEX event 7th March 2024

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- 1) Who we are
- 2) History of Cloud
- 3) AI Architecture
- 4) Digital Realty Solution
- 5) Service Directory
- 6) Key take away



Digital Realty
Industry-leading Scale

Telx & Telecity
Industry-leading Colocation Sites

DuPont Fabros
Industry-leading Hyperscale

Interxion
Industry-leading in EMEA

Mitsubishi JV
Industry-leading in APAC

Madallion Communications
Leading Colocation Africa's Provider

Digital Connexion
DC Development in India

iColo.io
State of the Art Carrier Neutral DC

Ascenty
Infrastructure leader across Latin America

Teraco Digital Realty SA
Leading carrier-neutral Colocation DC

300+ Data centers
50+ Metros
28 Countries
6 Continents
5,000+ Customers
1GW Renewable Energy

Seattle
Portland
San Francisco
Los Angeles
Phoenix
Dallas
Austin
Houston
Miami
Chicago
Toronto
Boston
New York
Northern Virginia
Charlotte
Atlanta
Queretaro

Amsterdam
Brussels
Stockholm
Copenhagen
Dublin
London
Paris
Dusseldorf
Frankfurt
Vienna
Zurich
Zagreb
Madrid
Marseille
Athens
Israel

South Korea
ICN10
Seoul
Tokyo
NRT10

Osaka
KIX12

Hong Kong
HKG11

Singapore
SIN10,11,12

Australia
SYD14

Fortaleza
Rio de Janeiro
Sao Paulo
Santiago

Abuja
Lagos
Nairobi
Johannesburg
Maputo
Durban

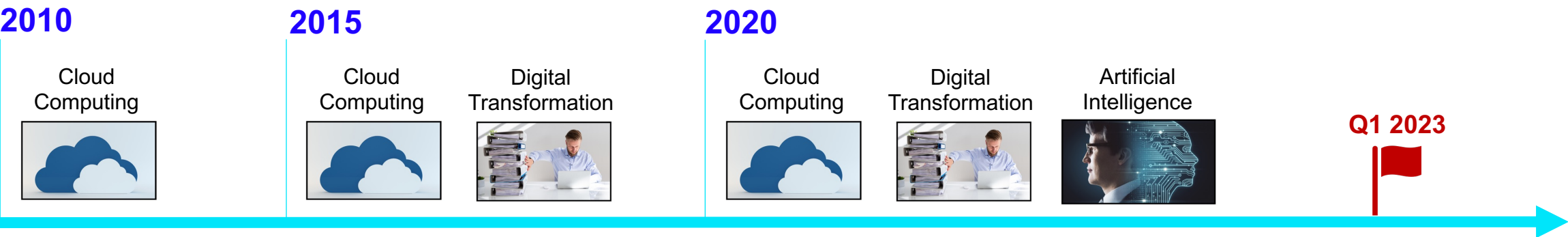
India
MAA10

Singapore
Jakarta

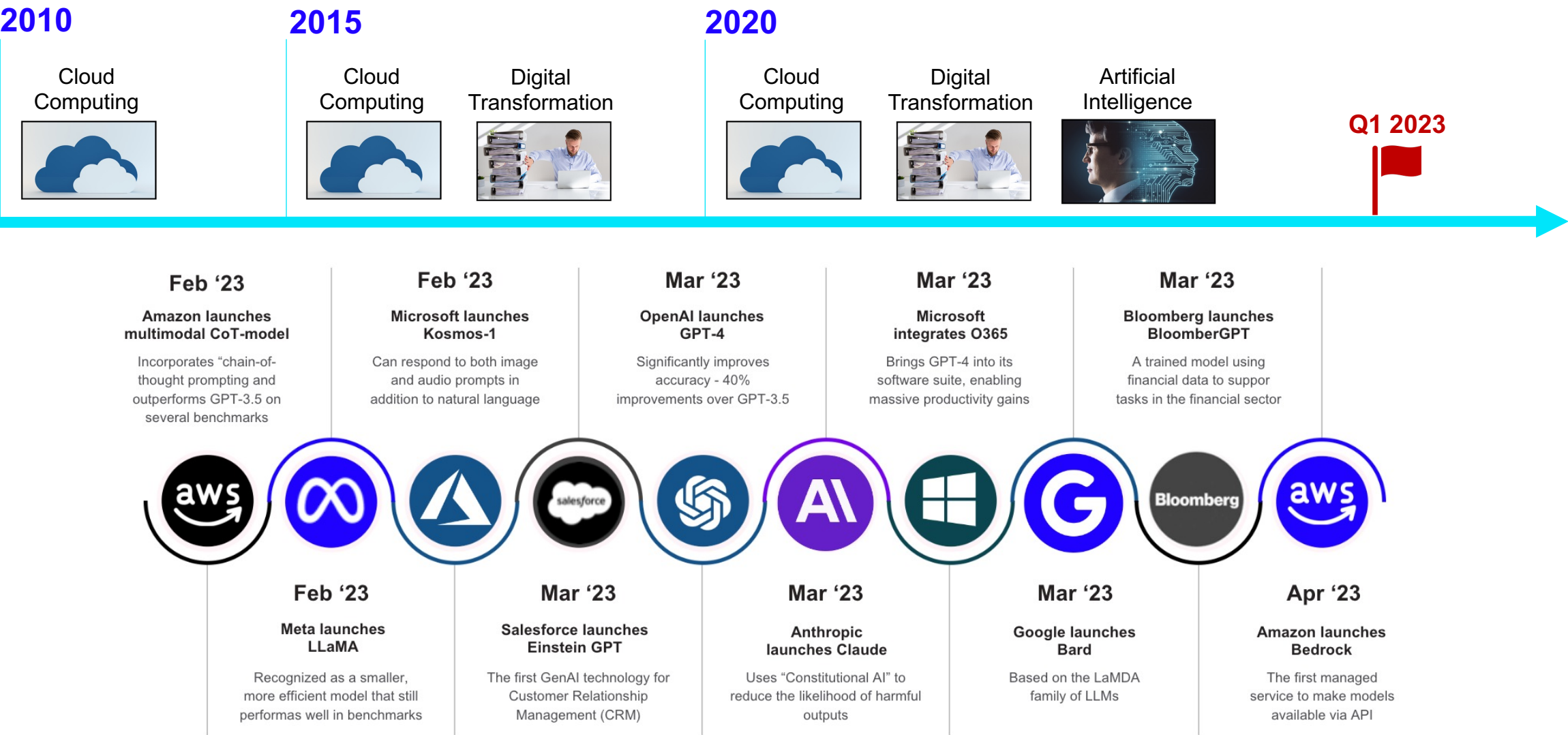
Sydney
Melbourne



A Brief History of Cloud

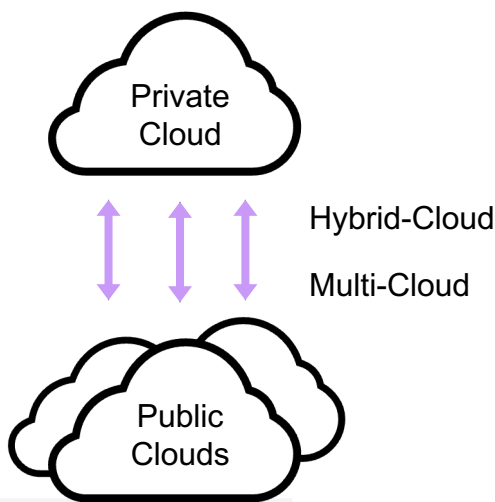


A Brief History



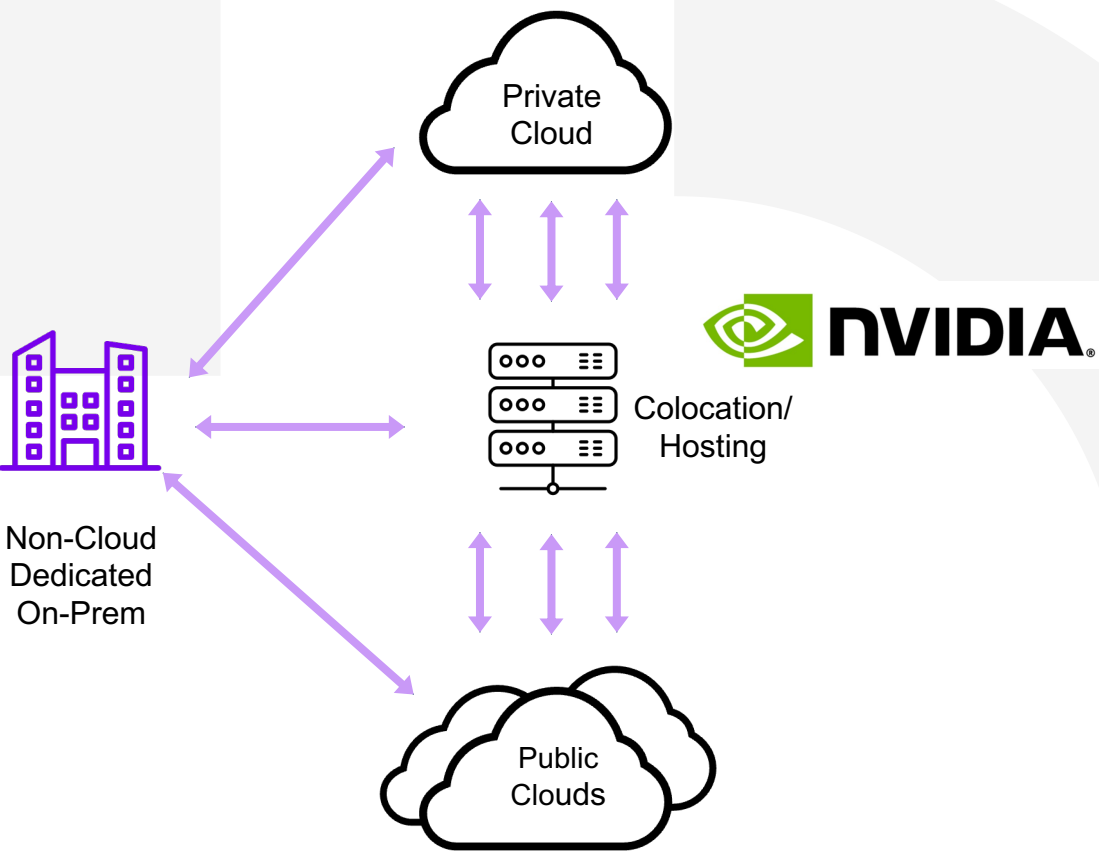
Hybrid IT is a Result of evolving Digital Transformation

From This...



To This...

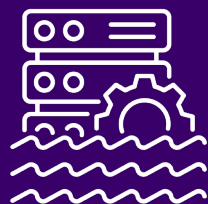
Hybrid IT is the evolution of Enterprise IT



MULTI HYBRID CLOUD

HYBRID IT

Types of AI Architectures



Data Lake

Capacity Block Size

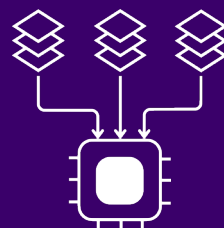
5-15 MW

Rack Density

Low to medium
(5 – 15 kW)



Air Cooled



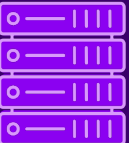
Training

Capacity Block Size

5-100 MW

Rack Density

Very high
(35 – 100 kW)



Liquid Cooling



Inference

Capacity Block Size

1-5 MW

Rack Density

Medium to high
(15 – 25 kW)



Location / Latency Sensitivity



Generative AI Demand: Today

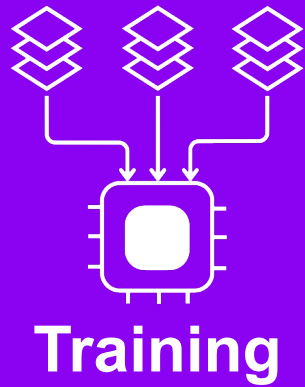
Primarily Demand for Training Deployments



Accelerating incremental demand as AI providers race to build Generative AI models

Generative AI Demand: 1-2 Years

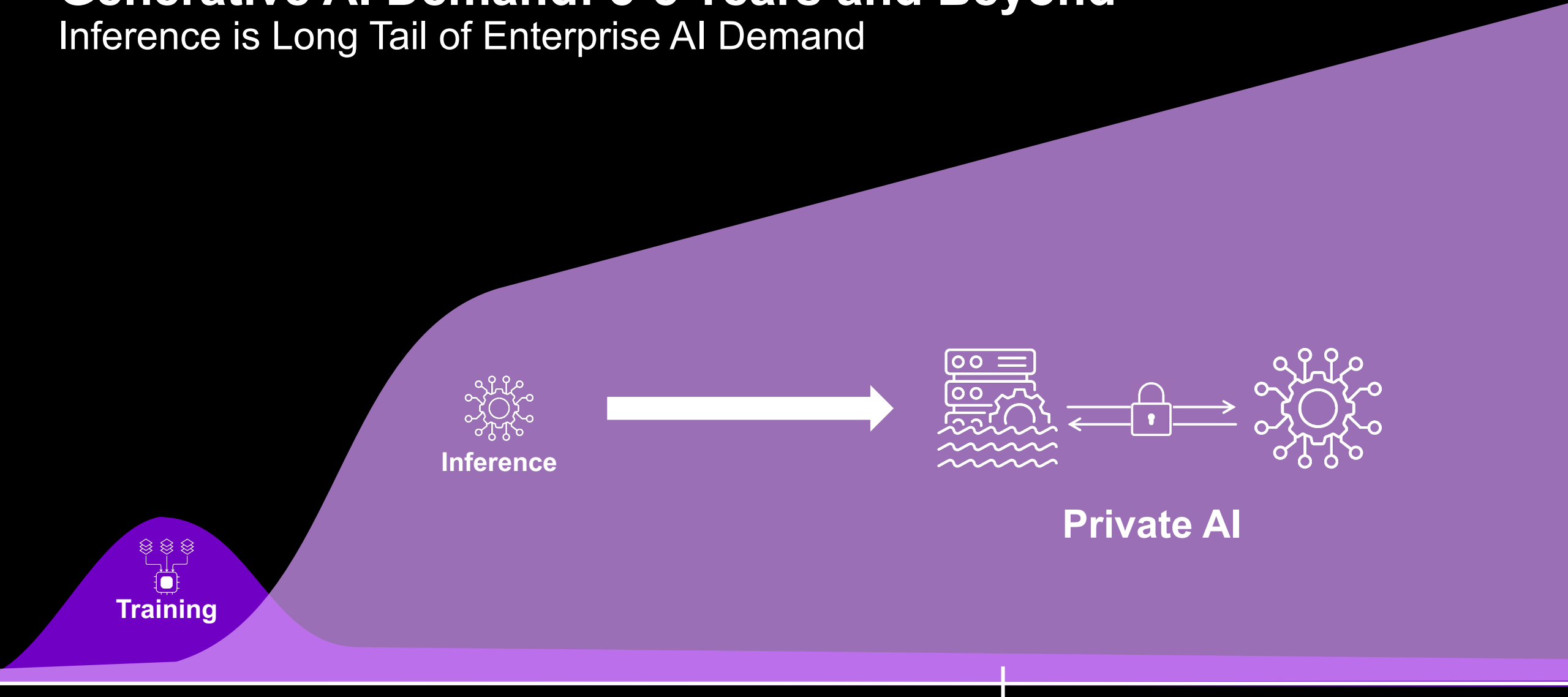
Transition from Training to Inference as Products Mature



Models become good enough, limiting incremental training demand. AI products still maturing with limited revenue, limiting inferencing demand

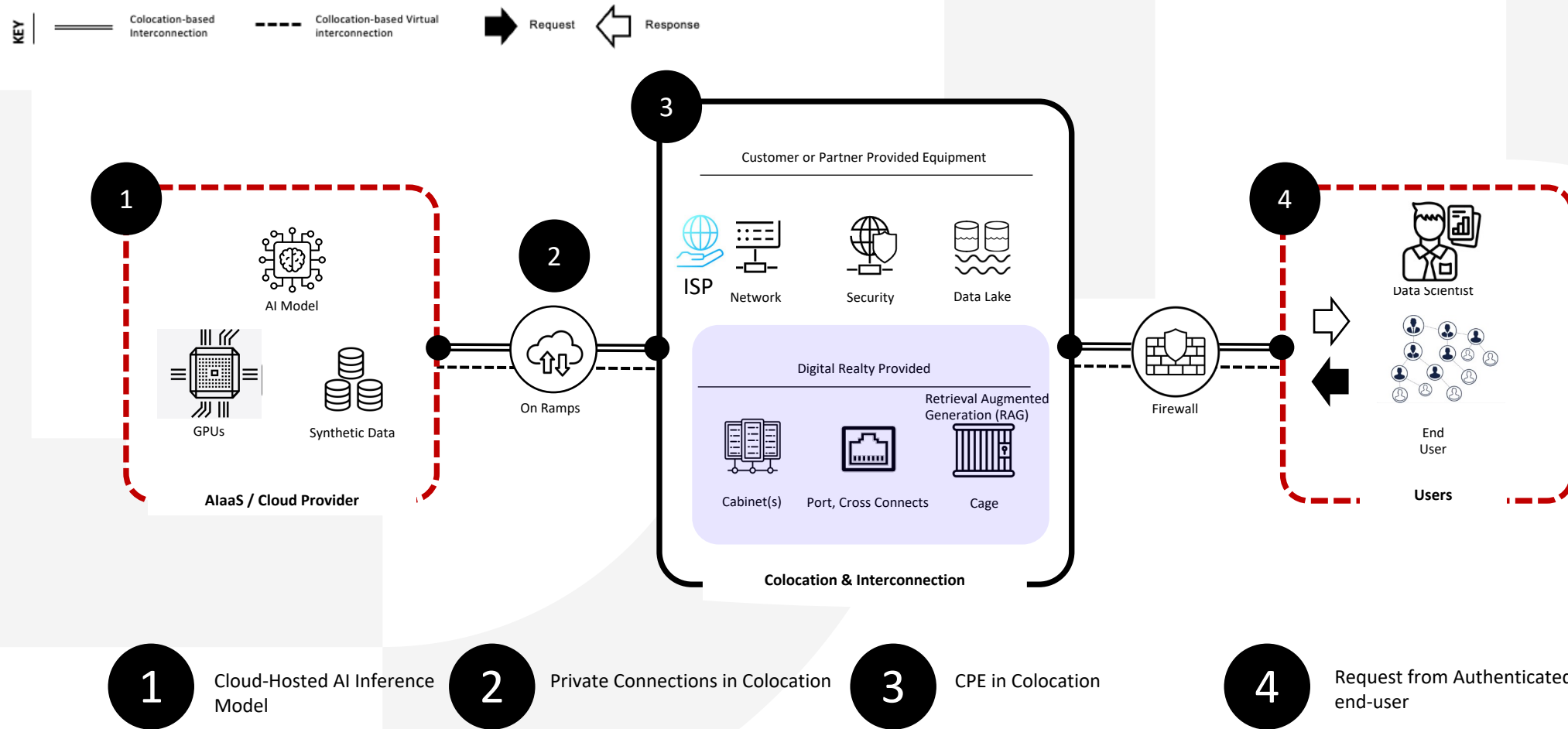
Generative AI Demand: 3-5 Years and Beyond

Inference is Long Tail of Enterprise AI Demand

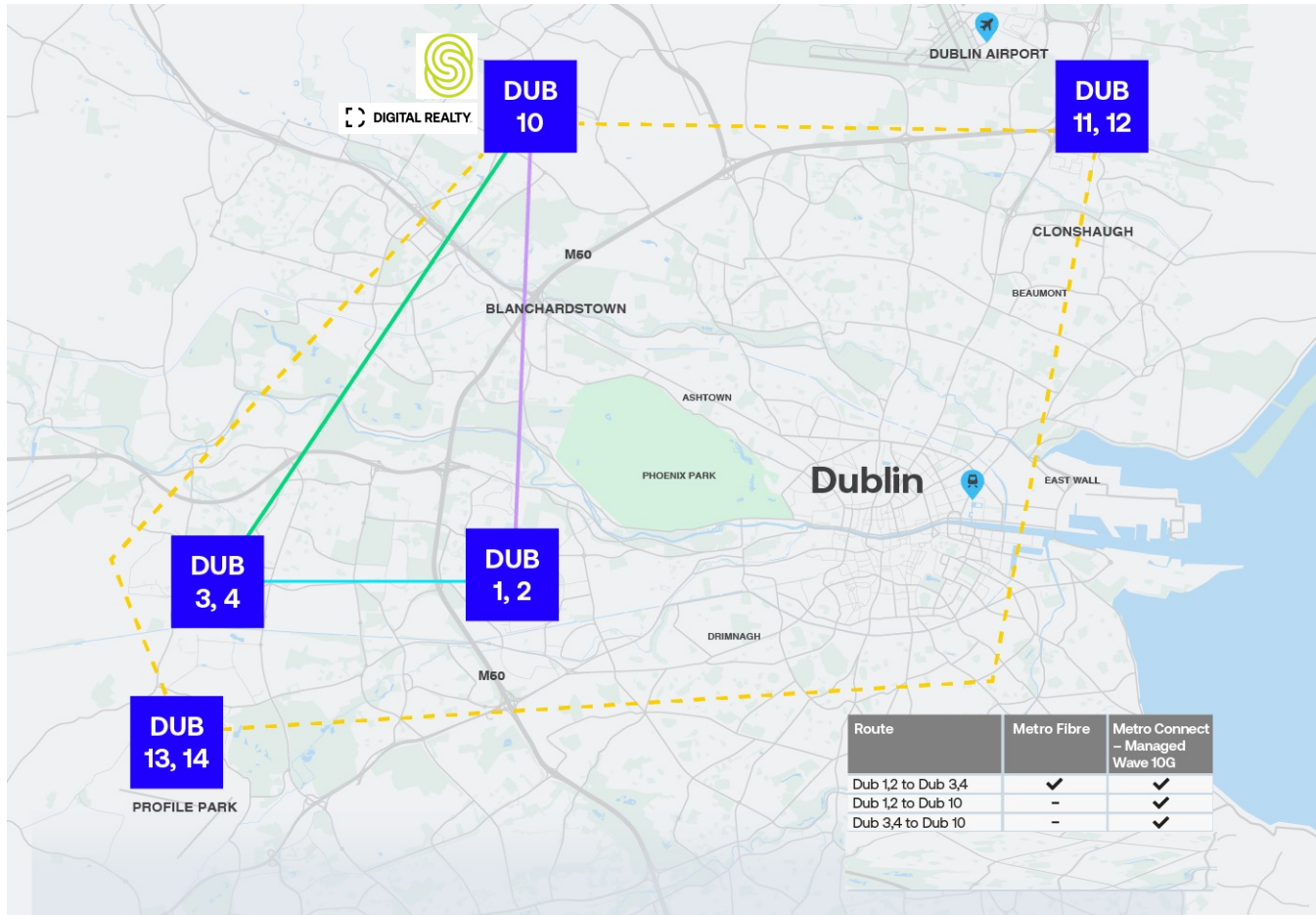


AI Training / Inference – Hybrid Cloud

AI Training / Inference Cloud Hosted, Data-On-Prem



Dublin Overview



Connectivity

- Direct access to INEX
- 47+ fixed and mobile carriers, ISPs and CDNs
- 7 Subsea Cable
- Direct access to AWS and Microsoft Azure
- Access to Public Cloud (IBM Cloud, Google Cloud, Alicloud etc.) via ServiceFabric

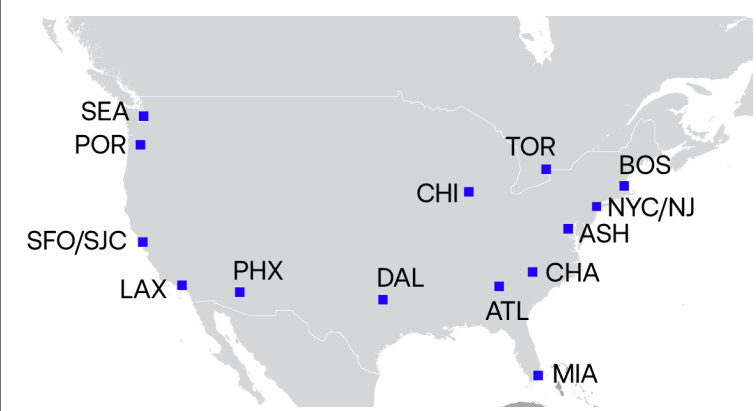
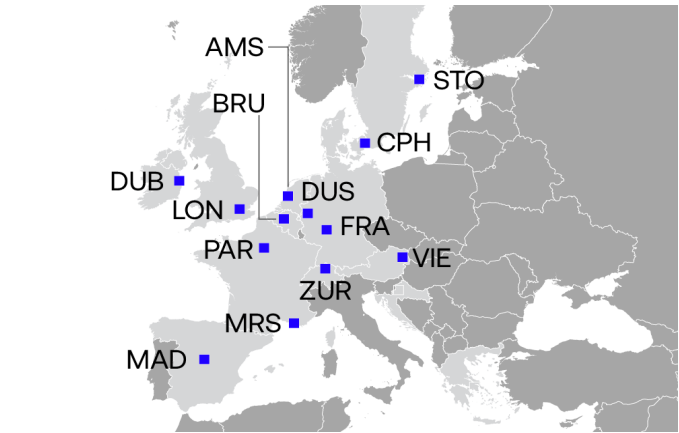
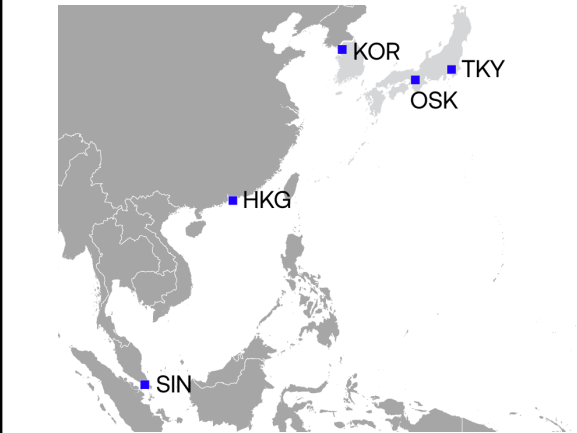
Community

- 100% renewable energy
- Diverse enterprise community ranging from small national companies to large multinationals

Location

- 8km from the city centre
- 25km from Dublin airport

Platform Digital - ServiceFabric™

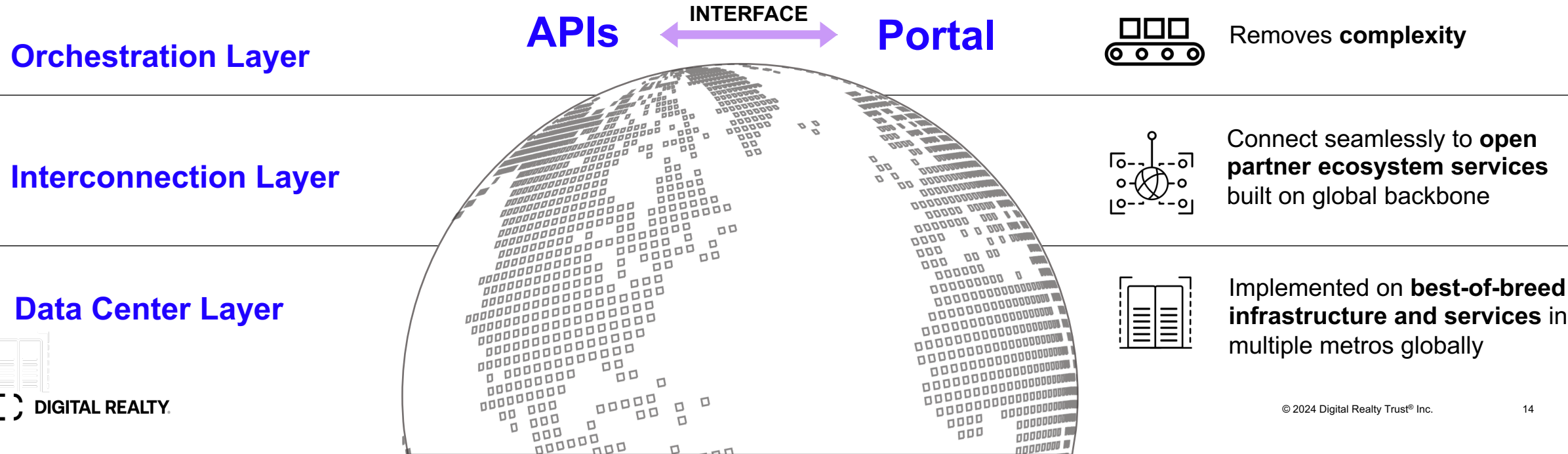
	North America 14 Markets	EMEA 13 Markets	APAC 5 Markets
Regional Capabilities	<ul style="list-style-type: none">• 10G / 100G native ServiceFabric™ ports• 100G backbone• Available from 58 sites 	<ul style="list-style-type: none">• 10G native ServiceFabric™ ports• 100G backbone• Available from 67 sites 	<ul style="list-style-type: none">• 10G / 100G native ServiceFabric™ ports• 10G backbone• Available from 8 sites 

Legend
■ ServiceFabric™ Availability

160+
Digital Realty Facilities Connected
215+
On Ramps Available

110+
Global Cloud Regions
350+
3rd Party Enabled Data Centers

Introducing PlatformDIGITAL[®] ServiceFabric[™]



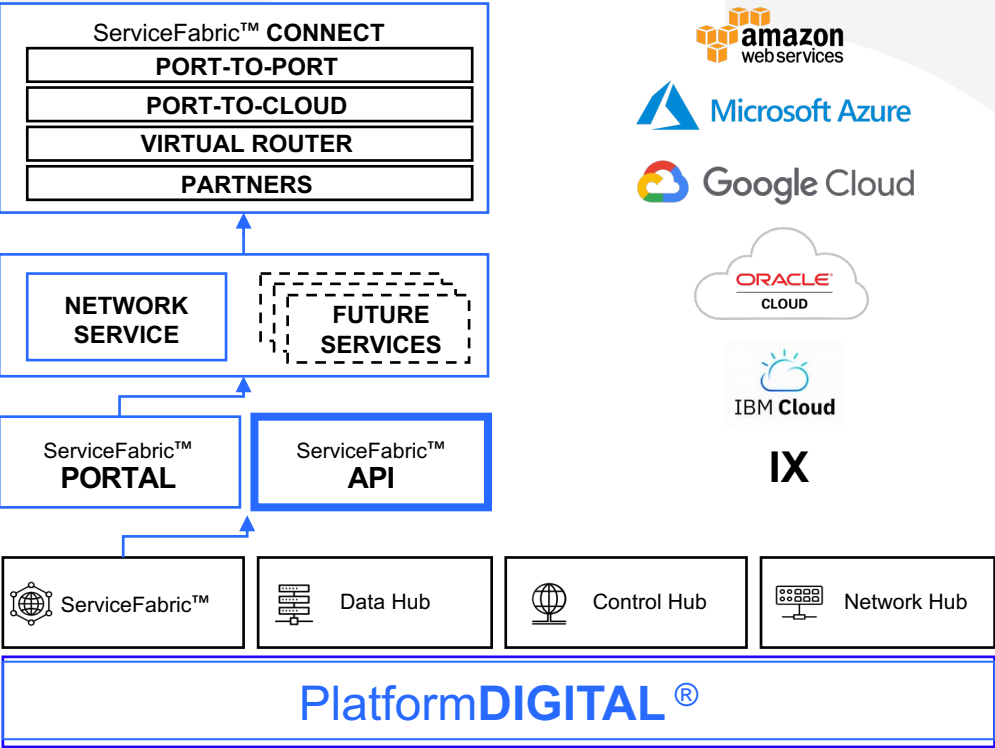
ServiceFabric™ Components

Orchestration is a critical component to every Enterprise’s strategy

ServiceFabric™ Connect	
Ports	10G, 100G*
Virtual Router	1G, 2.5G, 5G, 10G
Connections	Up to 10G Destinations: Native Digital Realty, Megaport Destination Types: Cloud, Self, Other (Customers/ Partners/ Service Providers) Distance: Metro, Intercity

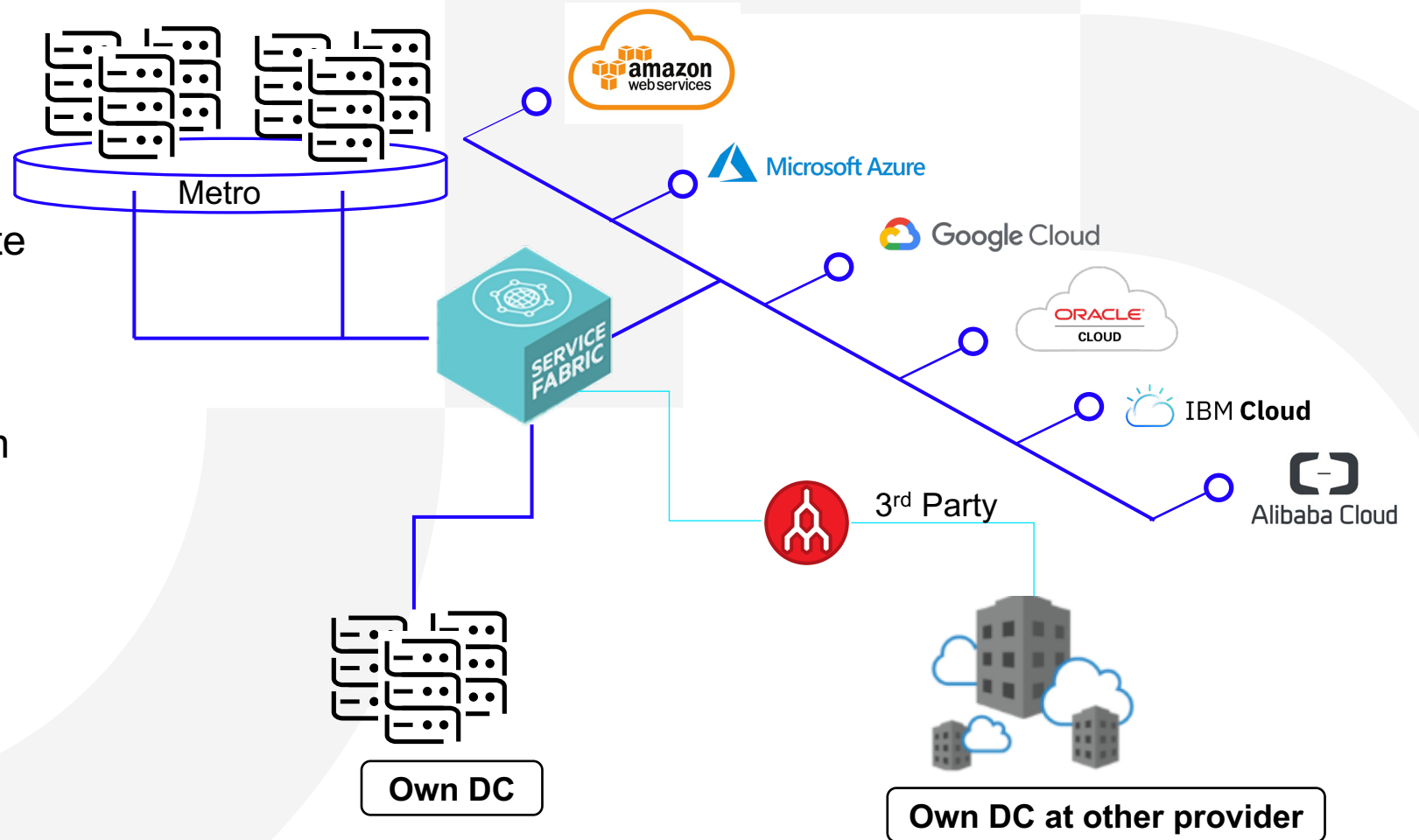
ServiceFabric™ Portal & API	
Partners	

Components



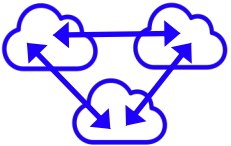

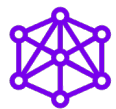


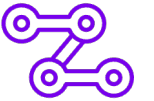
ServiceFabric Connect

1. **Establish a Port** which supports multiple virtual private connections
2. **Create a Link** for direct, private connections to multiple Cloud Service Providers, Network Providers, SaaS Providers and other participants of the platform
3. **Add Services (optional)**
Optimize and secure workflows
4. **Press CREATE** and the connection will be available within a couple of minutes

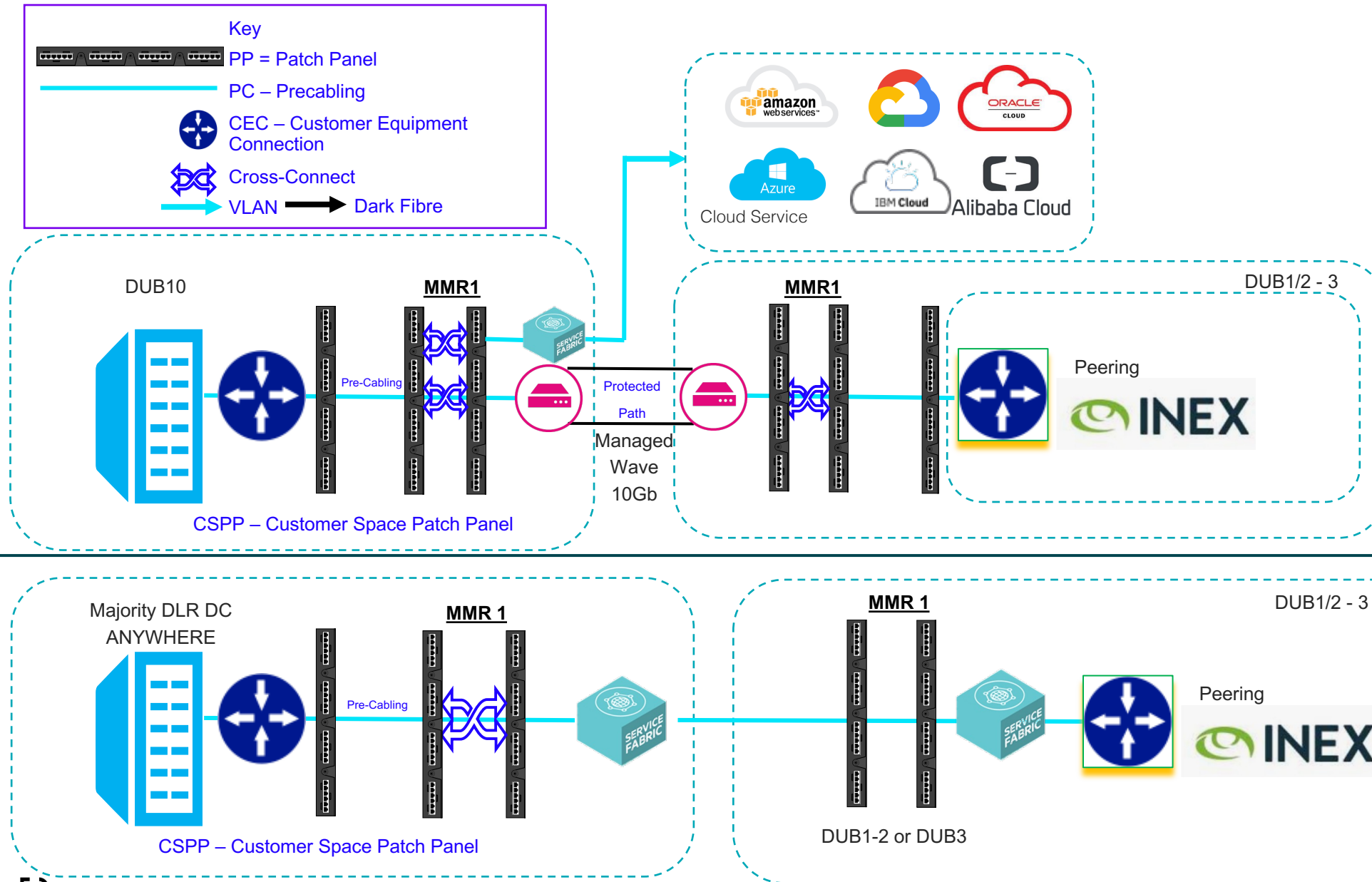


ServiceFabric™ Additional Use Cases

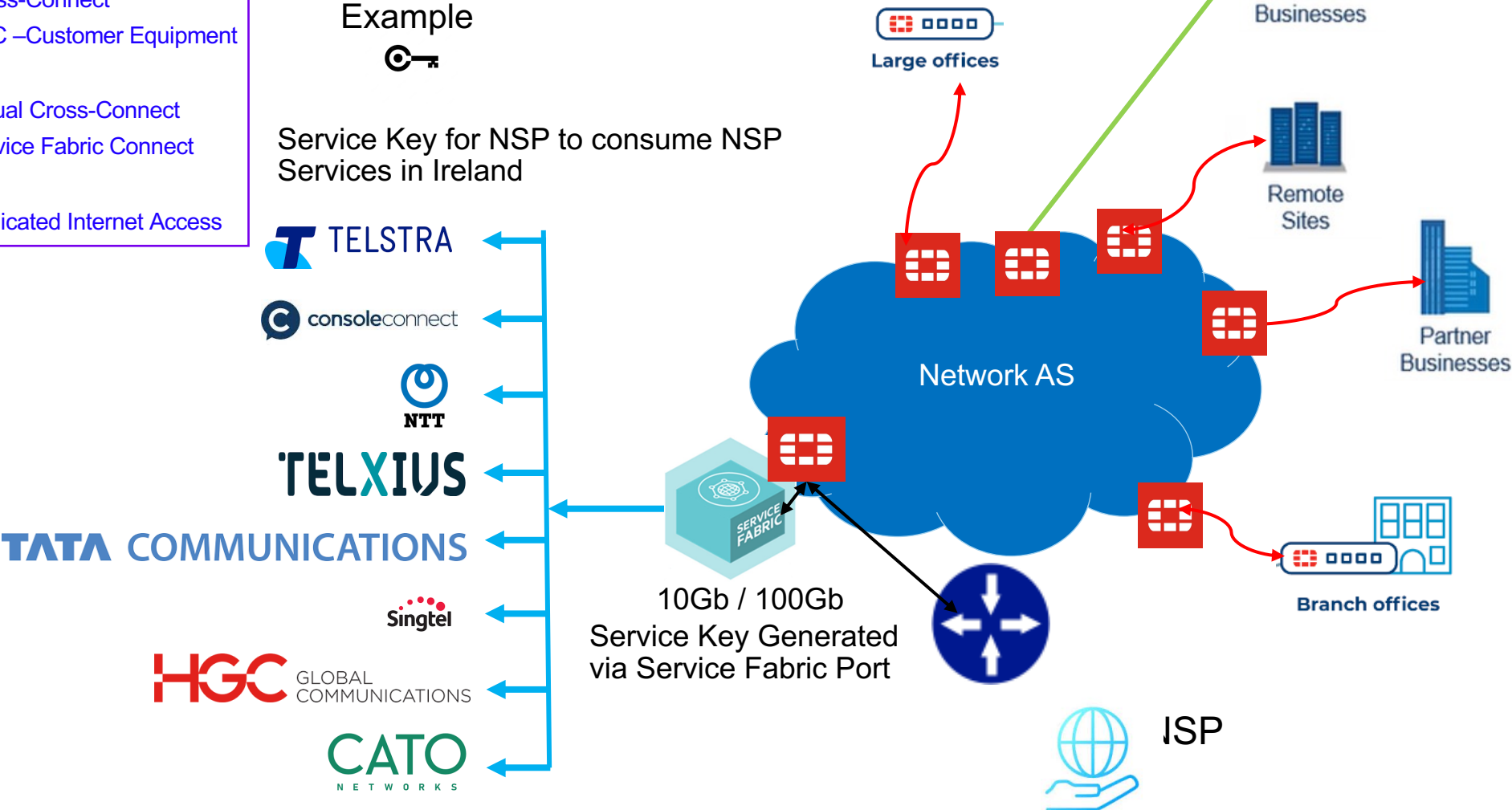
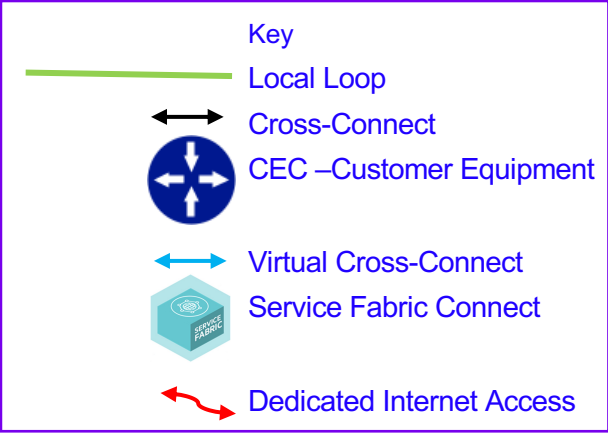
Multi-Cloud Connectivity and Beyond

 Multi-Cloud Connectivity <hr/> <p>One port to many CSPs</p>	 Redundant Cloud Connectivity <hr/> <p>Redundant cloud availability zones</p>	 Inter-metro/ Inter-region Connectivity <hr/> <p>Connect to B2B Partners or your own deployments global</p>	 Connectivity to ecosystems in 3rd party facilities <hr/> <p>Connect to any of the partner-enabled data centers</p>	 Disaster Recovery Set-up <hr/> <p>Connect your data center deployments/ Provide redundant connection to your carrier circuits</p>	 Service-chain Multiple Services <hr/> <p>Utilize virtual router to combine multiple virtual services or exchange data directly between CSPs / AI</p>
Can be managed with a single Platform					

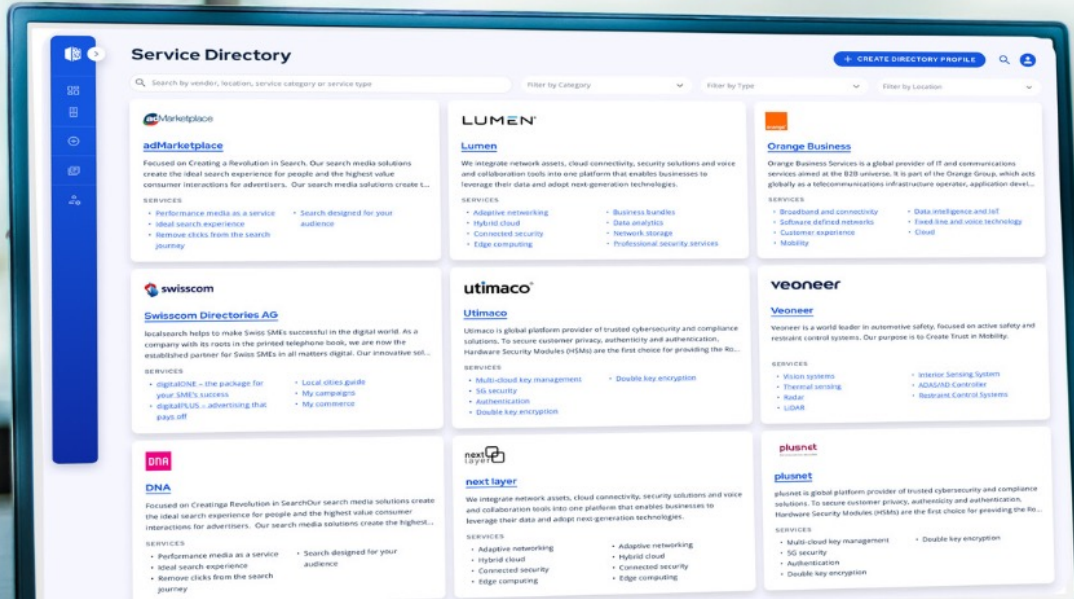
Example of a Colo Requirement + Service Fabric



Service Key for Port to Port Connectivity



Service Directory: A Bridge Between Customers



- Direct B2B Connections & Collaboration
- Brand Promotion & Revenue Growth
- Showcase Capabilities in Service Directory
- Expand to new markets beyond current territories
- Streamlined Service Access via “Click to Connect”

Service Directory Journey: Service Provider

From the ServiceFabric portal > (Directory Role) choose Service Directory

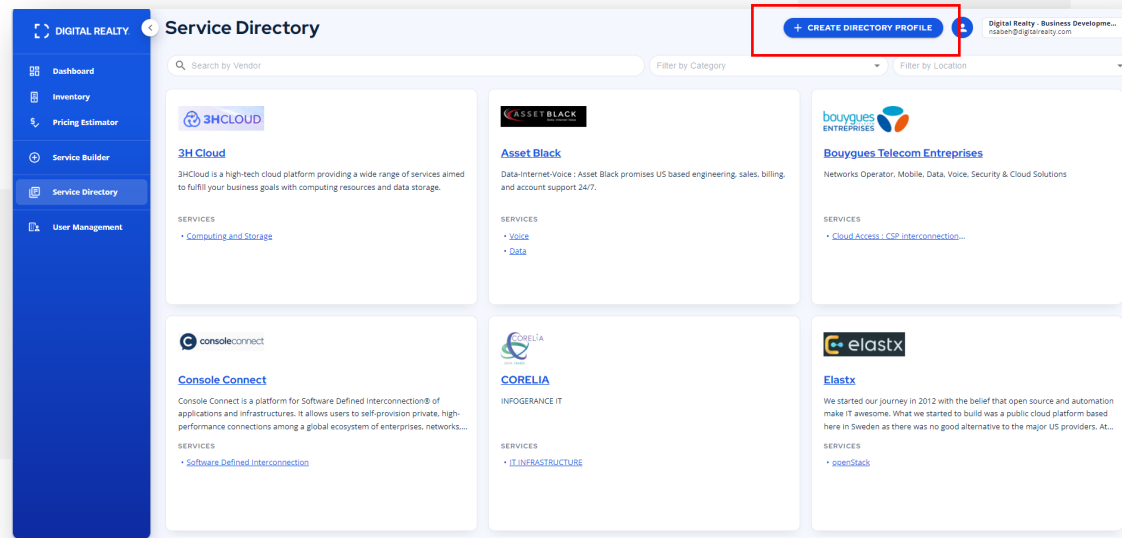
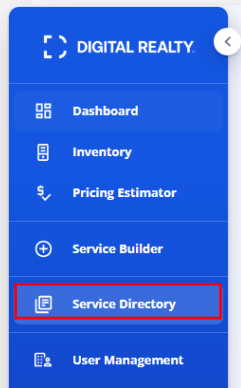
Service Directory landing page choose > Create profile

Provide company information.

1

2

3



Create Directory Profile

Profile Details *denotes required field

Company Name *

Company URL *

Additional Link

Company Contact Email *

Contact Phone Number *
+1

Company Description *
(500 characters)

Upload Company Logo

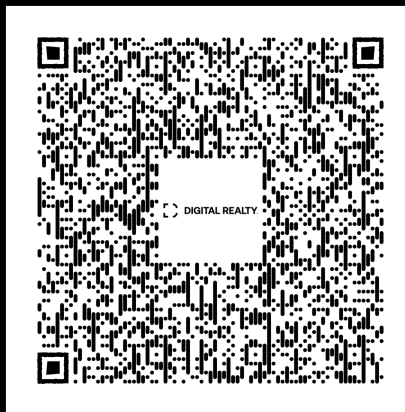
CLICK HERE TO BROWSE YOUR DEVICE OR DROP FILES TO UPLOAD LOGO IMAGE
When uploading your logo, it will be resized to 150x50px or a fixed 1:5:6 aspect ratio to fit our viewing parameters.
Max file size is 10MB with accepted file formats of: JPG (JPEG) or PNG

CANCEL NEXT →

KEY TAKE AWAY

1. Participate, we are better together
2. Connect to anyone, anywhere, anytime
3. Live Ready so you don't have to be ready

Thank you



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Darren Chan

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