



EQUINIX

# Improve your Sustainability via Digital Transformation

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**Oct 2023**

# Market View



*There is an increase in attention from customers, investors, partners, employees and communities about the environmental and societal impacts of capitalism, digitization and business at large. There's also growing recognition that an inclusive, equitable world goes hand in hand with sustainable growth.*

## 36B

**Tons of global energy-related carbon dioxide emissions— highest ever seen in 2021<sup>1</sup>**

### Carbon emissions

A primary concern and of growing importance to investors and regulators as governments globally attempt to curb the growth of greenhouse gas emissions contributing to climate change.

## 100+

**Countries pledge and announce actions at COP26<sup>2</sup>**

### 2021 Climate Change Summit

The COP26 summit accelerated action toward the goals of the Paris Agreement and the UN Framework Convention on Climate Change. 100+ countries to reverse forest loss and land degradation by 2030; 45+ countries pledged urgent action and investment toward sustainable farming; 10+ countries signed up for 30by30 target to protect 30% of the world's oceans by 2030.

## 83%

**Employees want to work for companies that stand up for social issues they care about<sup>3</sup>**

### 2021 PwC survey

On global human capital trends revealed 79% said fostering a sense of belonging in the workforce was important to their organization's success in the next 12–18 months, and 93% agreed that a sense of belonging drives organizational performance.

## 97%

**Organizations negatively impacted by climate change<sup>4</sup>**

### Sustainability is here to stay

Survey with 2,000 leaders globally revealed that 88% agree that immediate action can limit the worst impact of climate change; 67% are using more sustainable materials and technology; 55% are reducing air travel post pandemic; and 46% are requiring suppliers and business partners to meet certain sustainability criteria.

1. [Global energy review: Carbon emissions in 2021](#)  
2. [Key trends that will drive ESG agenda in 2022](#)  
3. [ESG: How can you unlock value. PwC Report](#)  
4. [Deloitte 2022 CxO Sustainability report](#)





## Societal and business influence on ESG

- Global problems—often associated with climate change—result in local impacts such as wildfires, droughts and supply chain impacts which highlight social and environmental concerns.
- Shareholder activism and stakeholder capitalism are pushing companies to consider the interests of all stakeholders.
- An inclusive, equitable world goes hand in hand with sustainable growth.

# Sustainability Drives Our Success and Our Customers' Success



Sustainability tops business priorities

According to Global Tech Trends Survey, **75%** of Hong Kong businesses reported sustainability remained one of their organization's most important drivers. **72%** said they will work with IT partners who can meet key carbon reduction targets

Growing customer and governmental demand for sustainable IBXs

Contract amendments guaranteeing sustainability and renewable energy progress, governments mandating building characteristics

More customers are requesting data on the impact of their operations within Equinix

Requests for environmental data are on pace to double in 2023 (after tripling in 2022) and last year represented over \$2B revenues



# The World is Digital



## To succeed, Digital Leaders need...



**GREATER  
AGILITY**



**SIMPLIFIED  
DEPLOYMENT**



**IMPROVED COST  
STRUCTURE**



**LOW  
LATENCY**



**EXPANDED  
GLOBAL REACH**



**RICH  
INTERCONNECTION**



**SUSTAINABILITY**



# Transformational Journey

## Starting Point



## Business Pressures

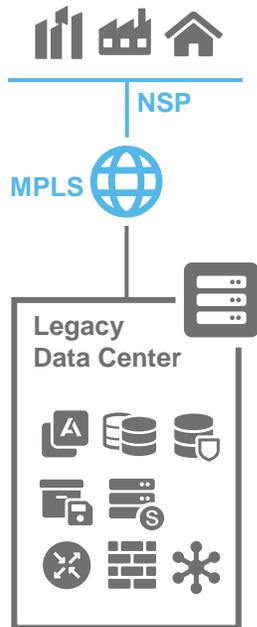
*Common challenges with a conventional IT infrastructure approach that is not optimized to*

- Achieve Corporate Sustainability Goals/regulatory compliance
- IT transformation / Optimization
- Move suitable workloads to the cloud
- Manage changing stakeholder requirements
- Accelerate time to market
- Maintain legacy infrastructure
- Overcome supply chain issues

High



CO<sub>2</sub> Emissions

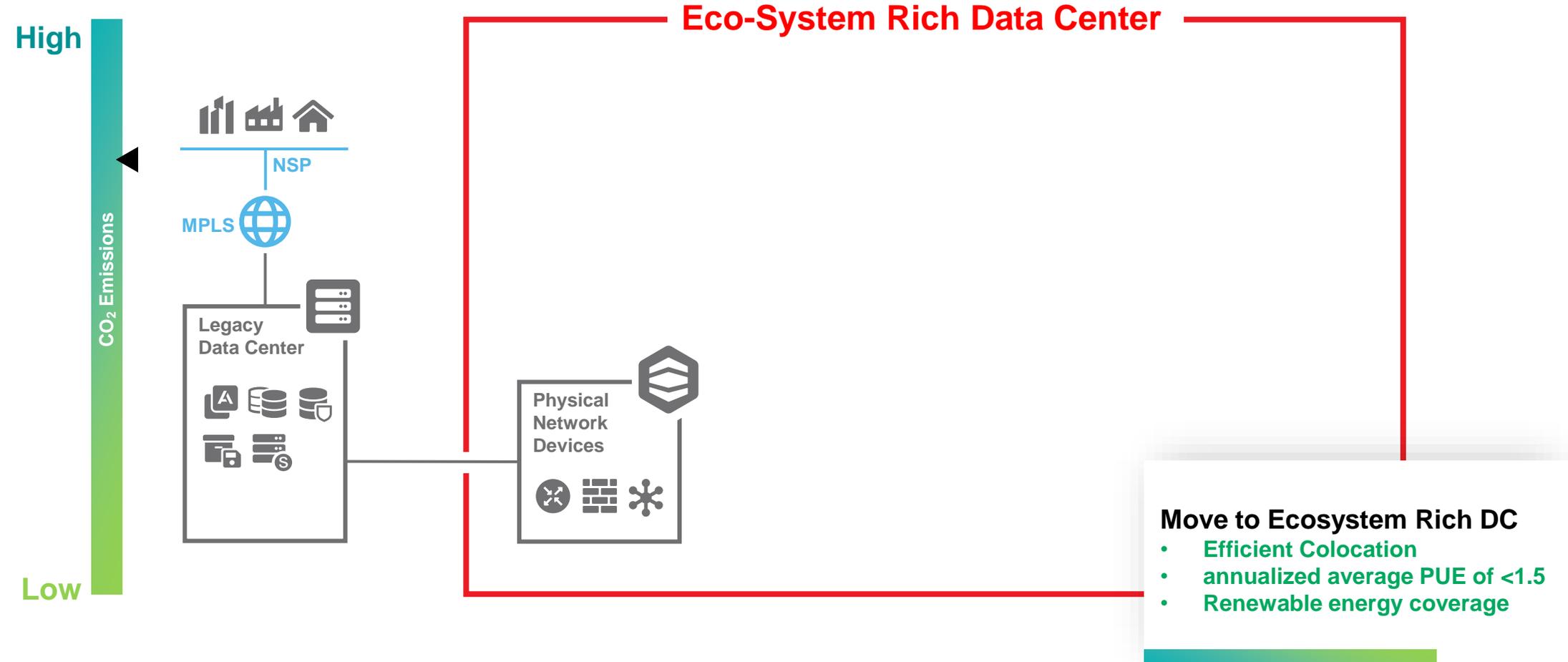


Low



# Transformational Journey

Migrating Network Functions to Eco-System Rich Data Center



# Transformational Journey

Connect to SDN Fabric

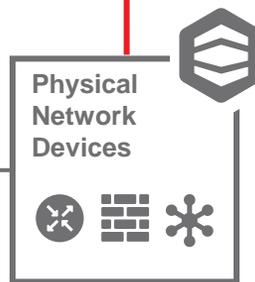
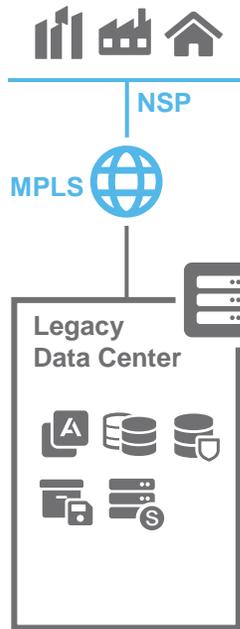
## Digital Ecosystem



High

CO<sub>2</sub> Emissions

Low



### SDN Fabric

- Connect everything
- Connect in real time
- Connect with confidence

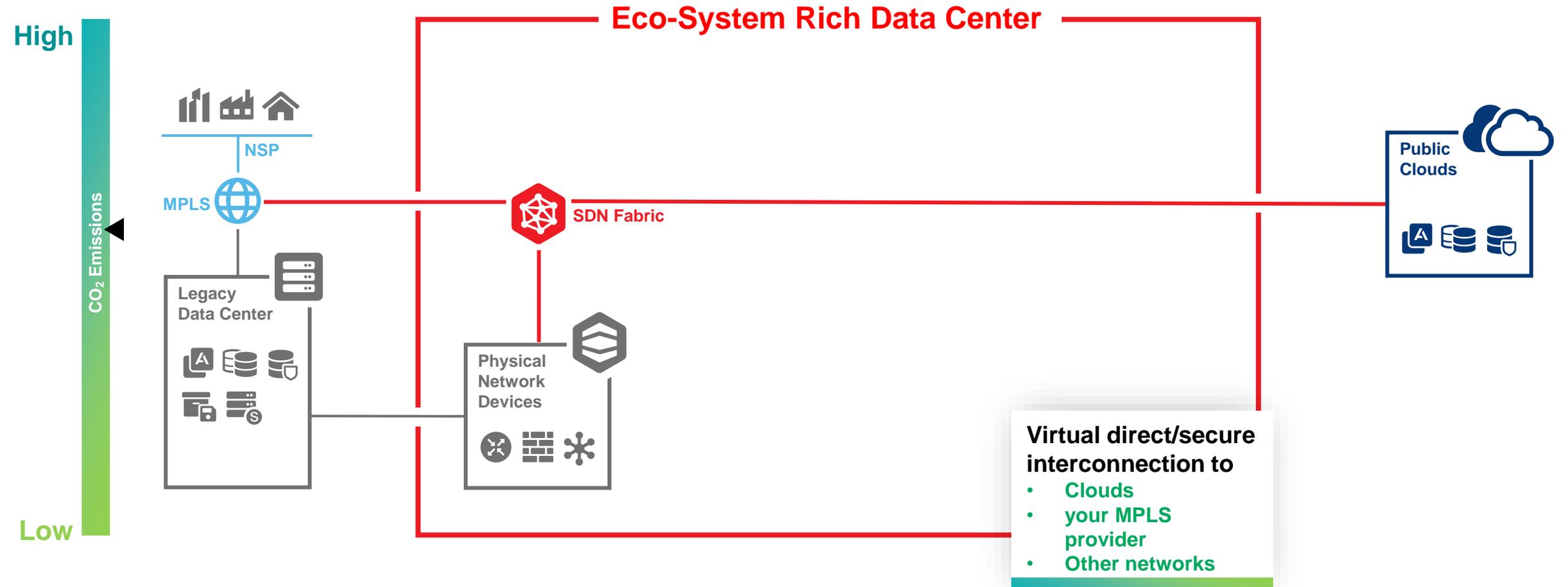
### Connect on SDN Fabric

- Private Network as a service
- Software defined Ecosystem as a service



# Transformational Journey

Access clouds & network services virtually – SDN Fabric





# Software Defined Networking Fabric

## Fast and convenient

Agile, DIY  
Single bill

## No red tape

No need lengthy procurement /  
contract process

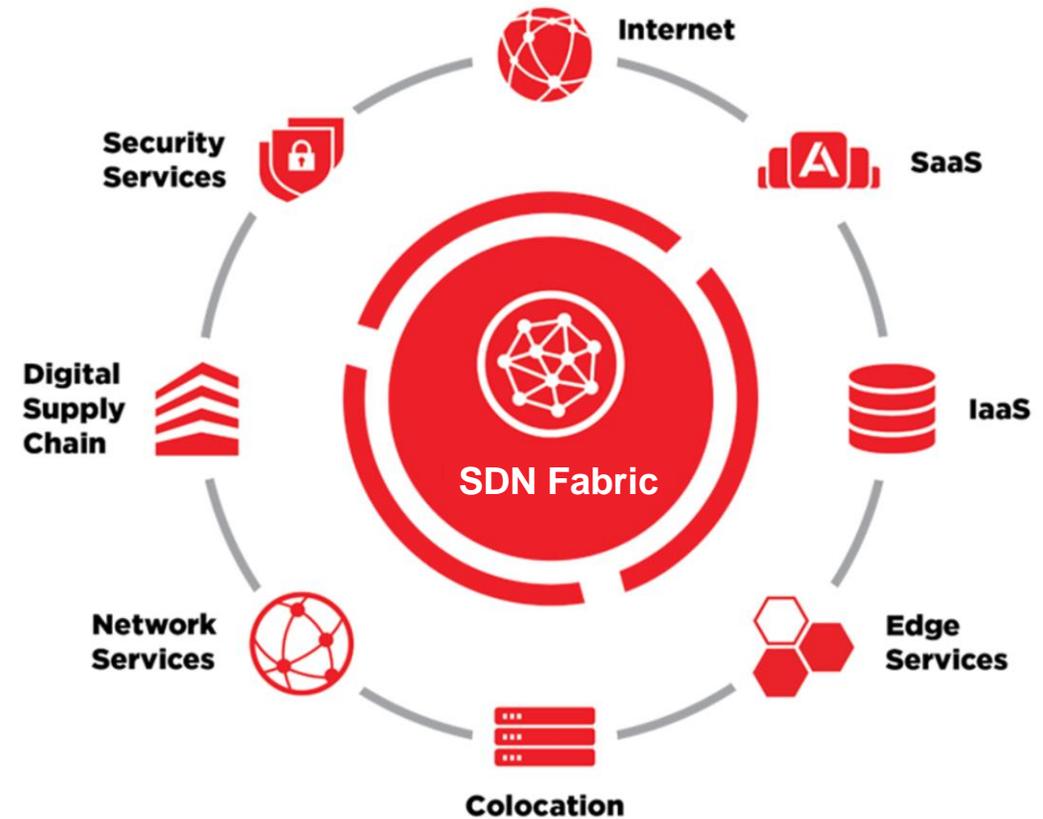
## More destinations

Expand global reach to provider and  
business partner

## More possibilities

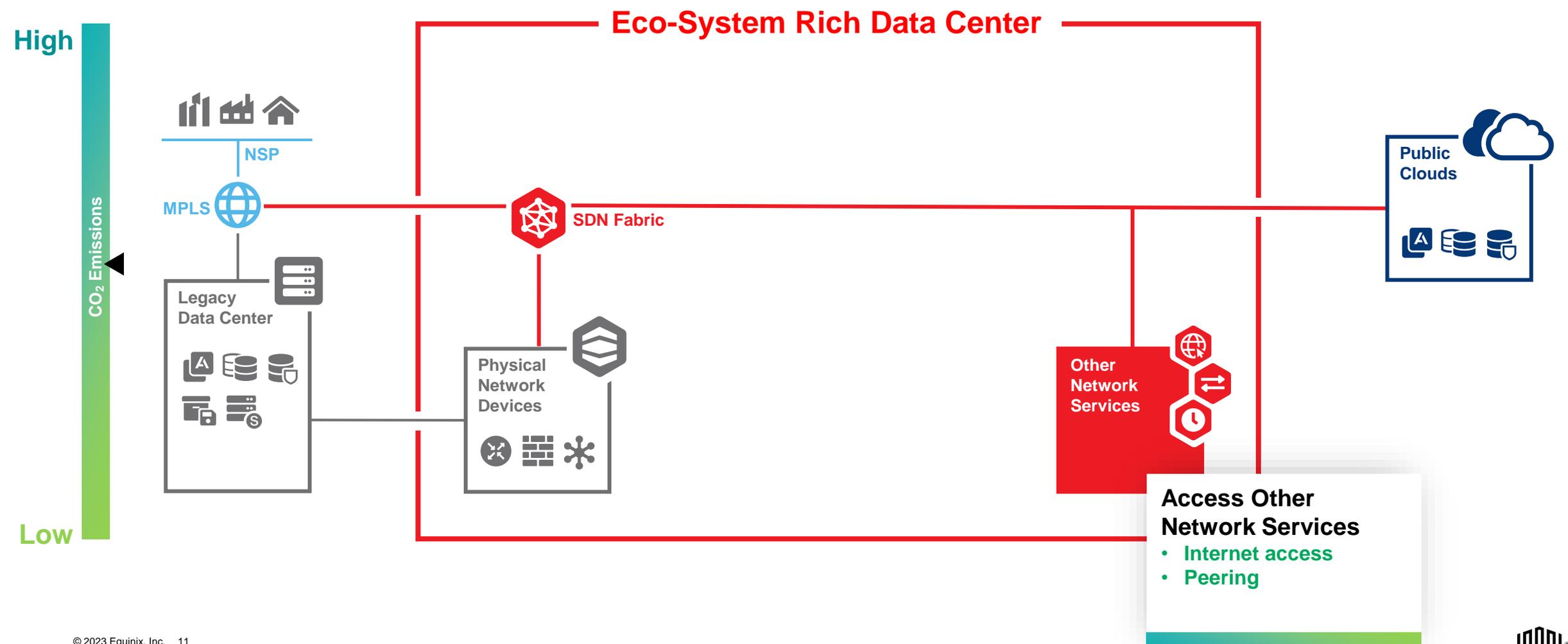
Build your own customized digital  
ecosystem

## Customer benefits



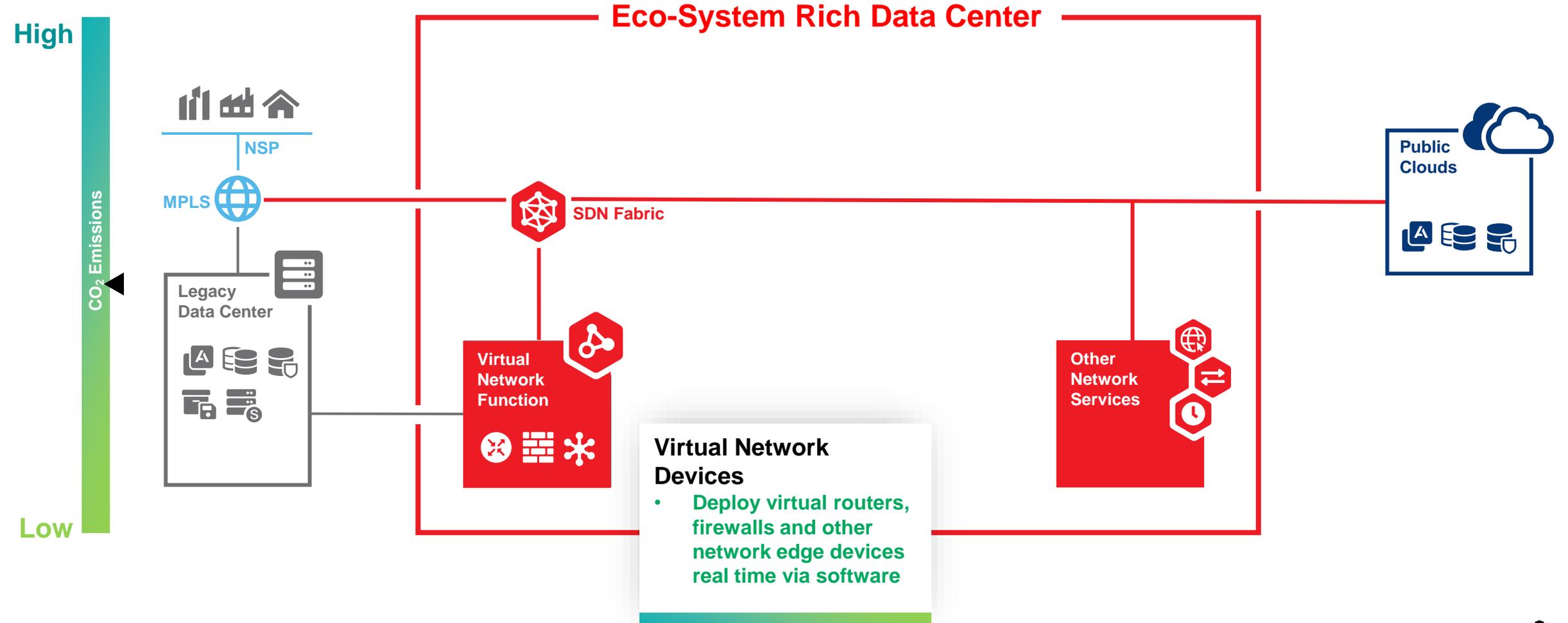
# Transformational Journey

Access other Digital Services virtually - internet access, peering



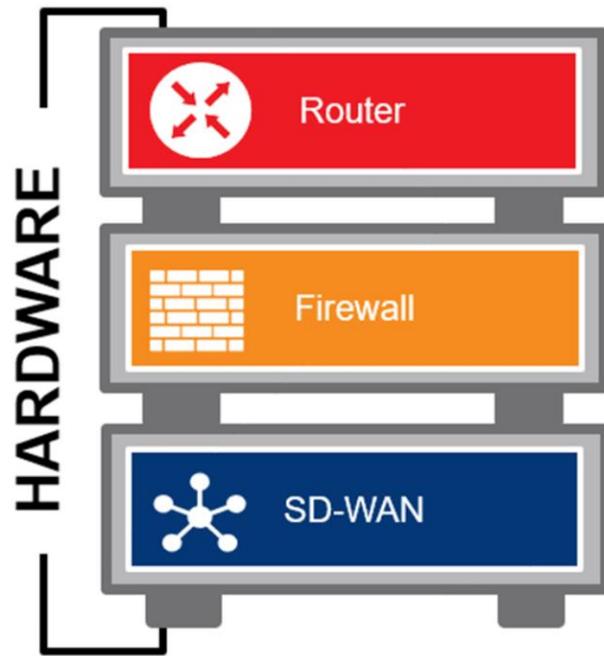
# Transformational Journey

Convert Physical Network Devices into Virtual Network Functions (VNF)

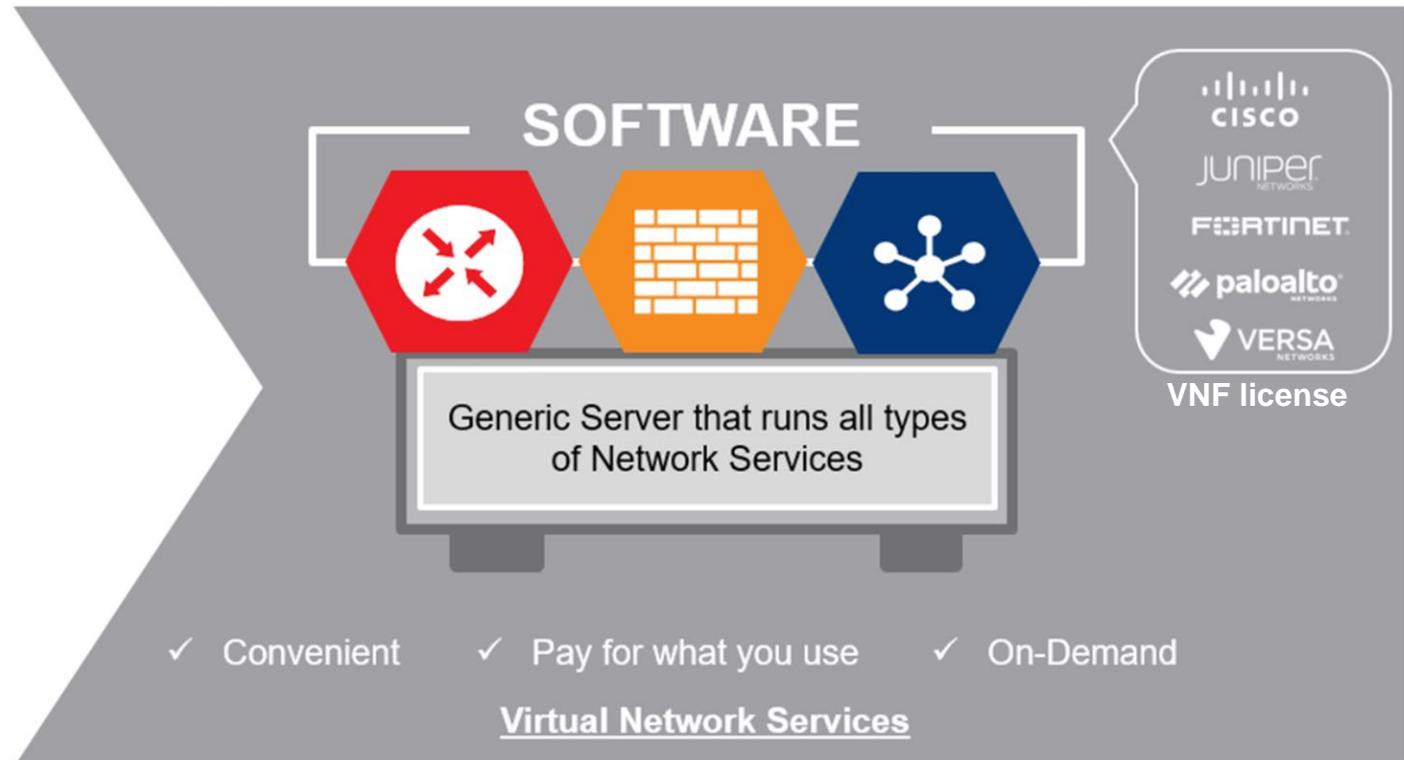


# Virtual Network Function as a Services

*A network automation tool built for customers to select, configure, and connect virtual network services at the edge in minutes*



Physical Network Equipment

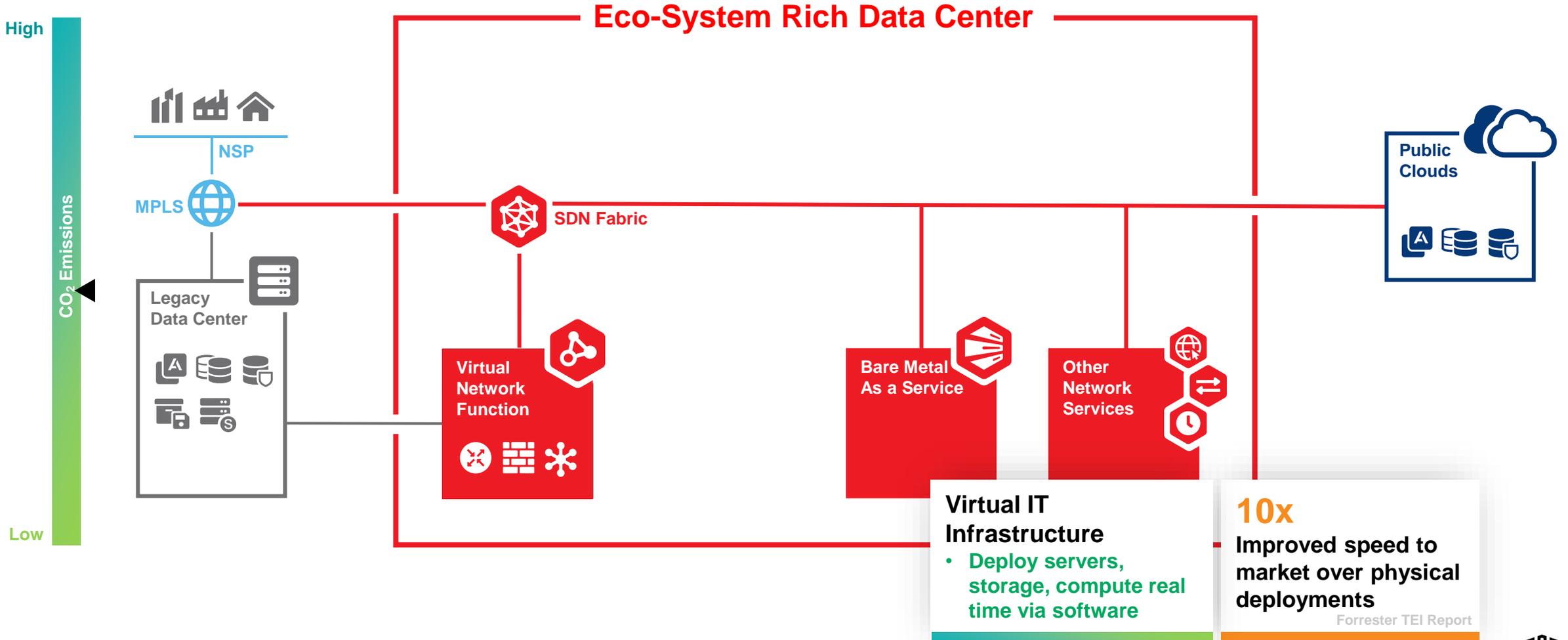


- ✓ Convenient
- ✓ Pay for what you use
- ✓ On-Demand

Virtual Network Services

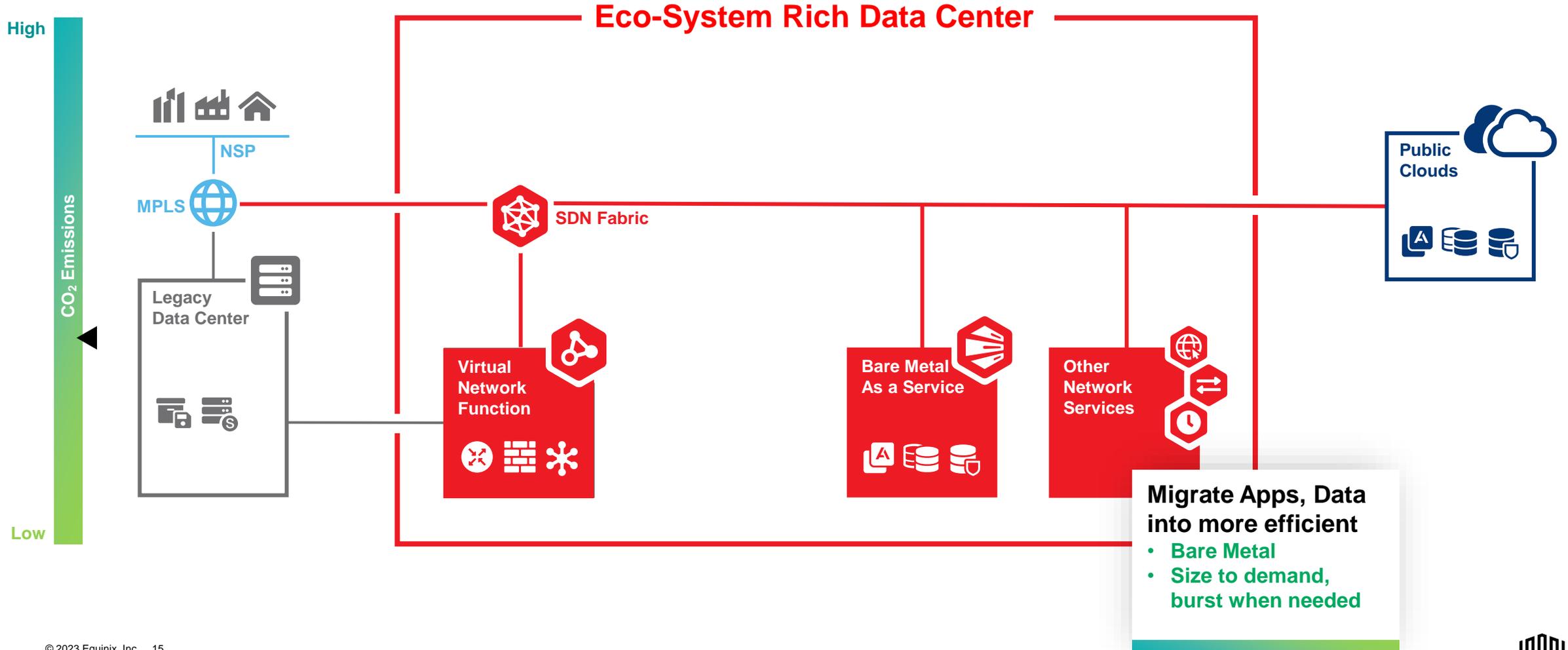
# Transformational Journey

Deploy IT, establish a new environment – Bare Metal as a Service



# Transformational Journey

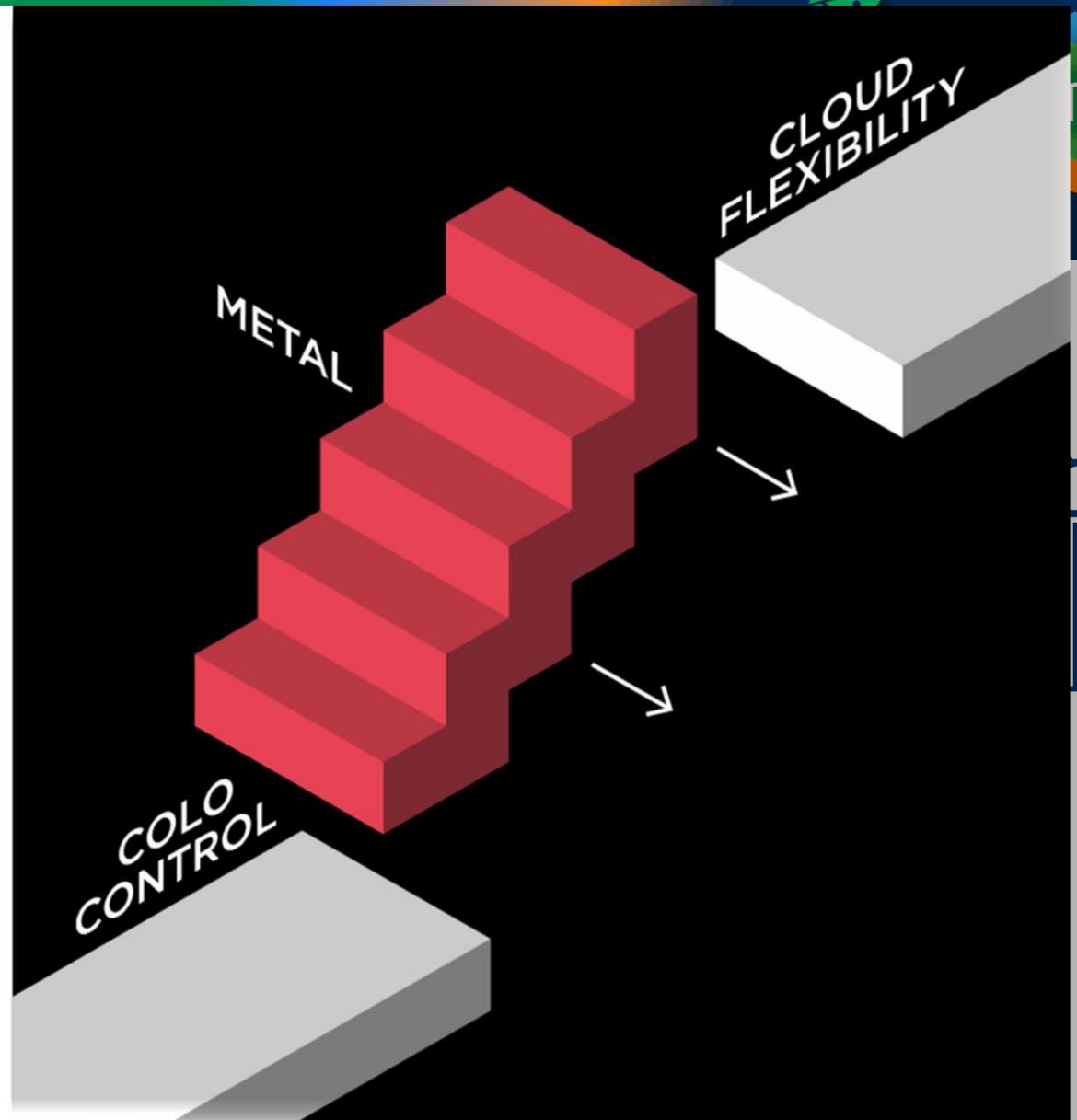
Migrate infrastructure, apps, data to newly established environment



# Bare Metal as a Service

fills a gap in the market between ‘do it yourself’ colocation and cloud

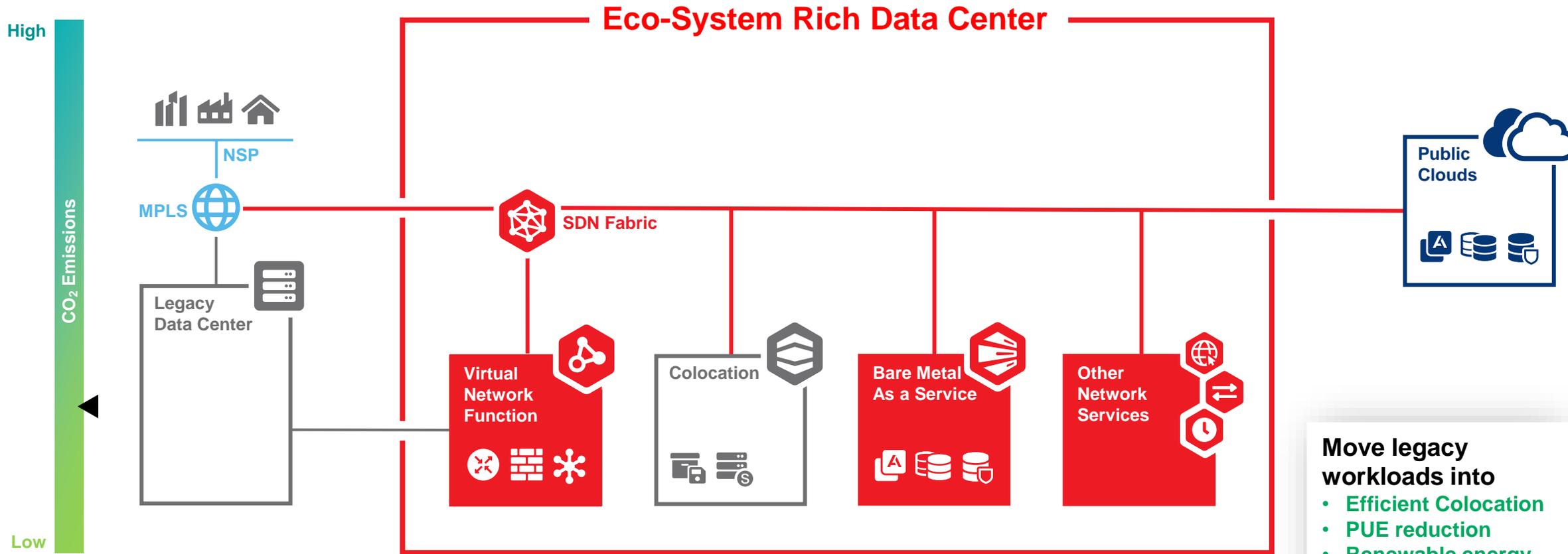
- *The control, performance and security of colocation*
- *The on-demand, usage-based charging experience of cloud*
- *Global, operated, and interconnected*
- *Access hardware & software partner solutions*
- *Internally we call it “automated colocation”*



burst when needed

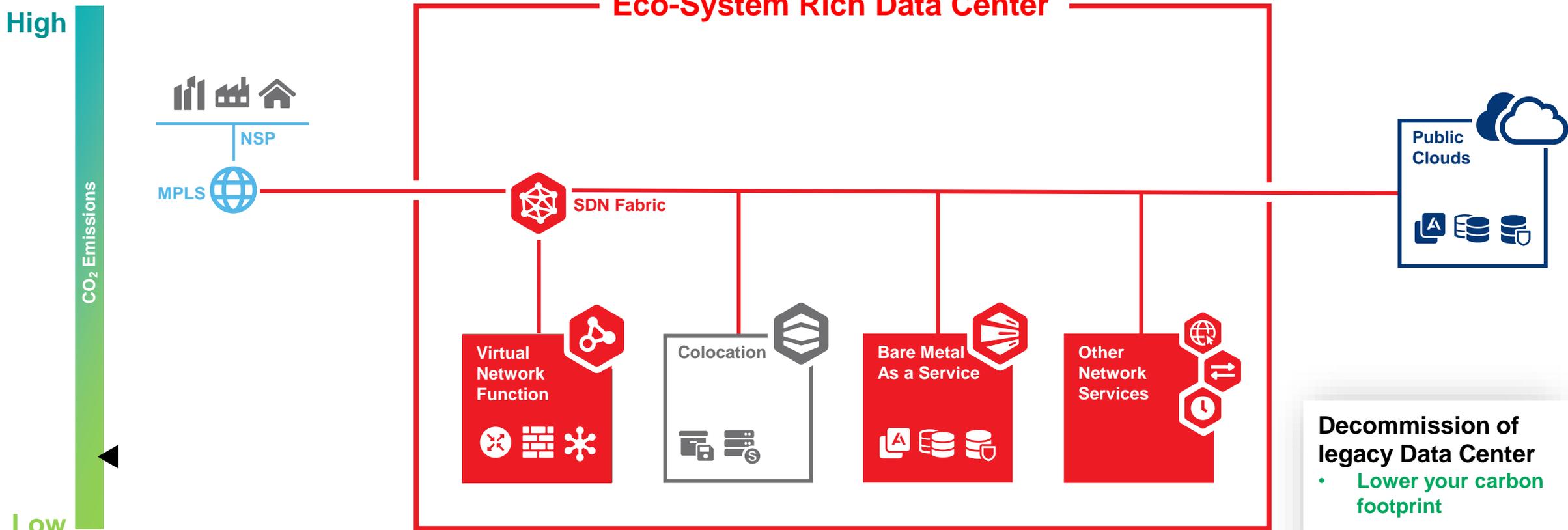
# Transformational Journey

Establish colocation for speciality/legacy infrastructure and legacy workloads



# Transformational Journey

## Decommissioning of legacy data center



# Transformational Journey

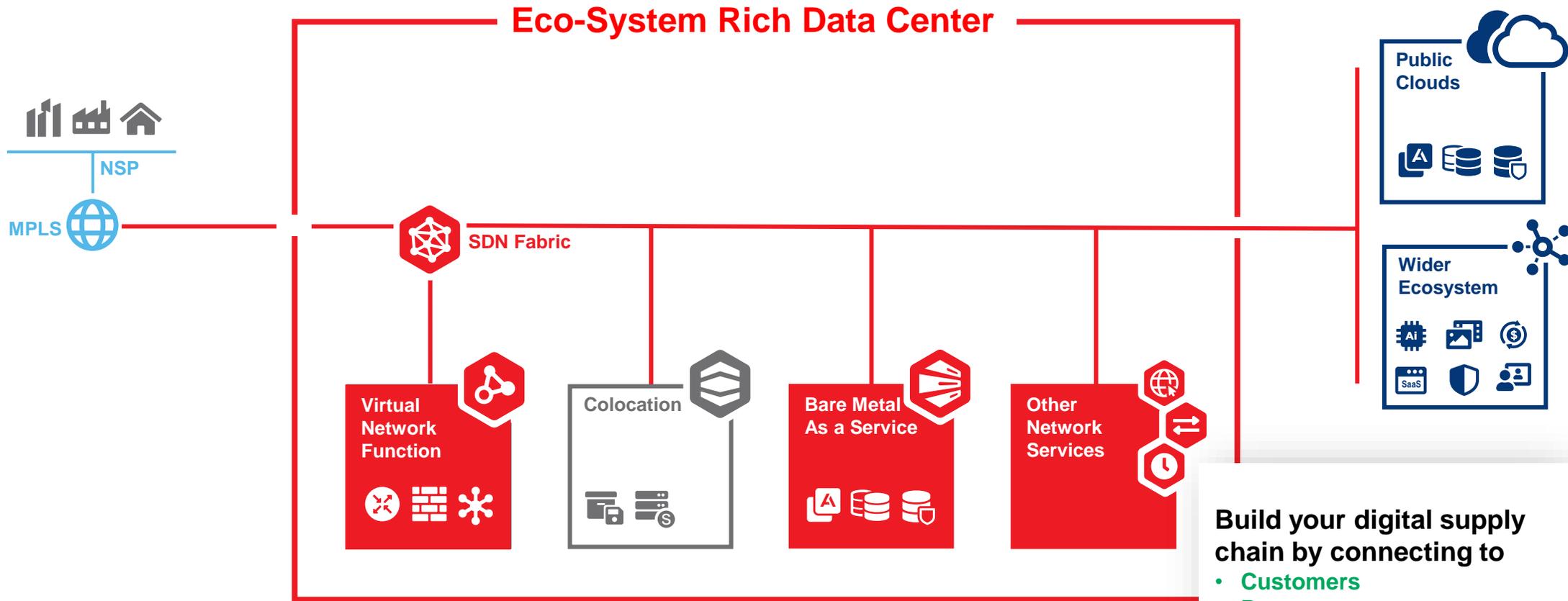
## Decommissioning of legacy data center



High

CO<sub>2</sub> Emissions

Low



**Build your digital supply chain by connecting to**

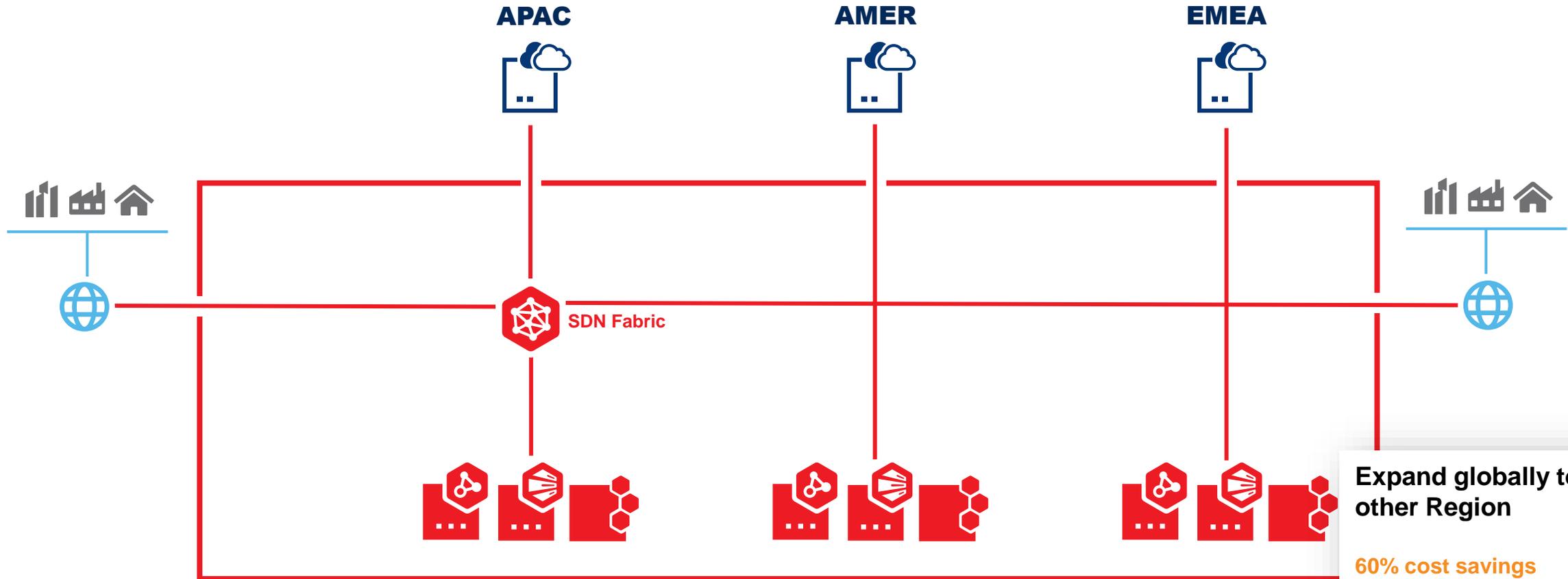
- Customers
- Partners
- suppliers

**to exchange digital services**



# Transformational Journey

Expand transformed infrastructure Globally



**Expand globally to other Region**

**60% cost savings**  
on internally managed infrastructure

Forrester TEI Report

# Transform on Platform Equinix®

Sustainable digital infrastructure on Platform Equinix.



Choose to collocate in hubs for direct services access



## Physical Infrastructure

Potential CO<sub>2</sub> emission savings

### Equinix Colocation

Colocating at an Equinix IBX® data center covered with 100% renewables can reduce associated Scope 3 market-based emissions to zero.

Interconnect virtually for higher efficiency



## SDN Interconnection

### Equinix Fabric®—automated Interconnection as a Service solution

Virtual interconnection over shared resources and on demand. Architect exactly to your needs, without having to oversize resources right away.

Flexibly leverage virtual network functions



## Virtual Network Functions

### Network Edge—automated Infrastructure as a Service solution

Move as much as you can to the public clouds, consolidate and virtualize networking via virtualized network devices on Platform Equinix.

Host your private cloud in highly efficient environments



## Hybrid Cloud

Potential CO<sub>2</sub> emission savings

### Equinix Metal®—automated Infrastructure as a Service solution

Move as much as you can to public clouds, consolidate your IT/networking, move the rest of your IT/networking infrastructure to Equinix Metal. Emissions from workloads moved to Equinix at sites that are 100% covered by renewables can claim zero Scope 3 market-based emissions.





**Everything Should be Good**

**Thank You!**