



Micro Data Center for Edge Computing

Frank Xu

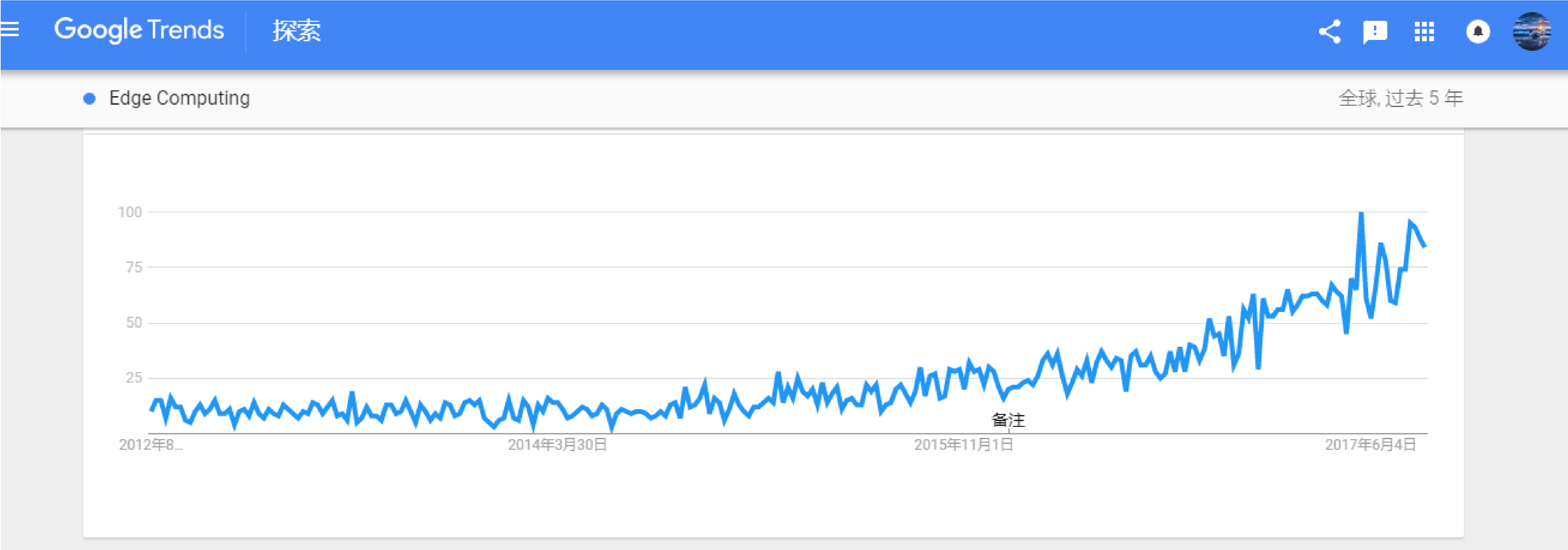
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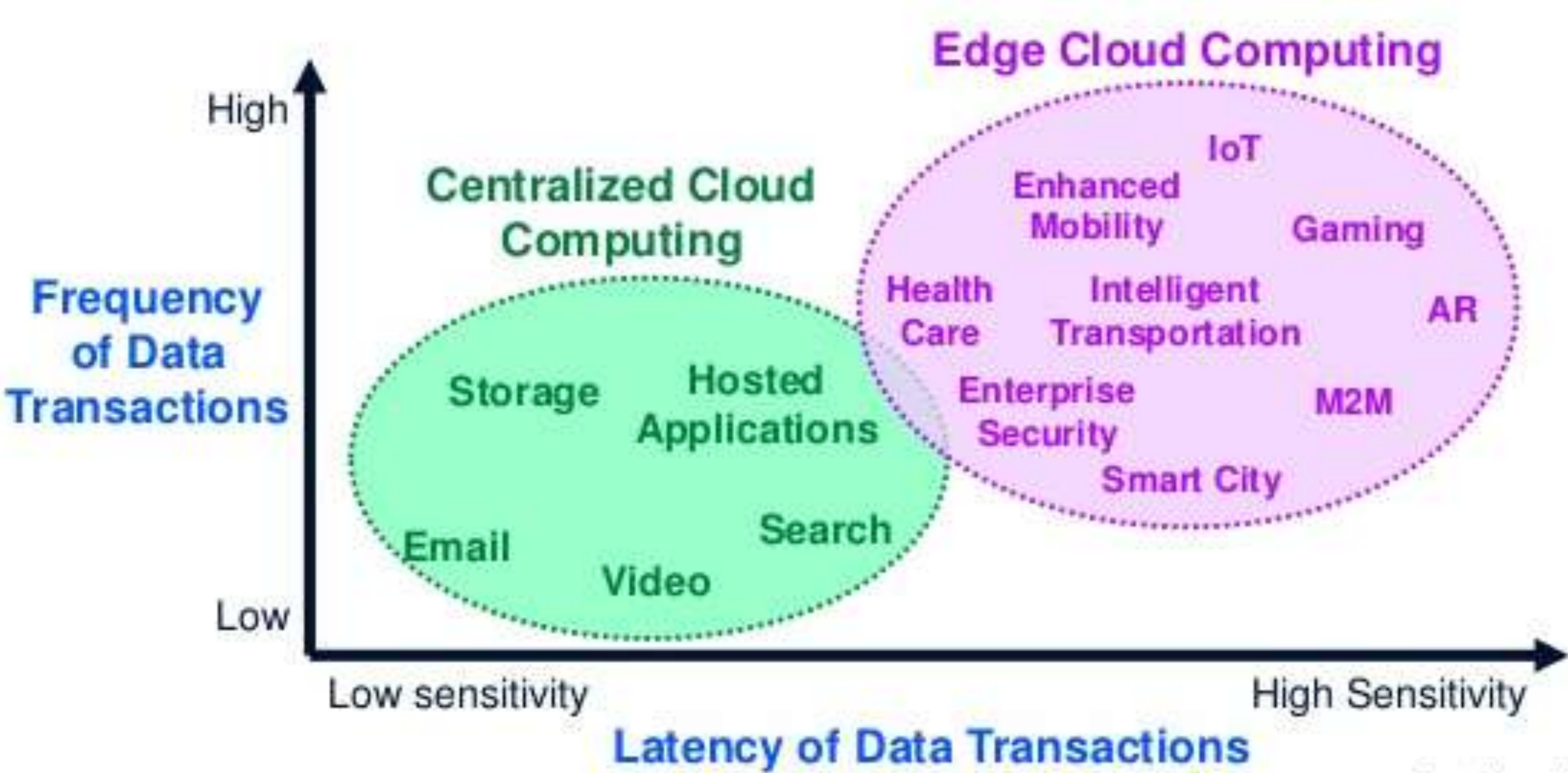
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- 1、 Edge Computing**
- 2、 Micro Data Center
- 3、 ATTOM MDC Platform

Edge Computing



Edge Computing



Adapted from NTT January 2014

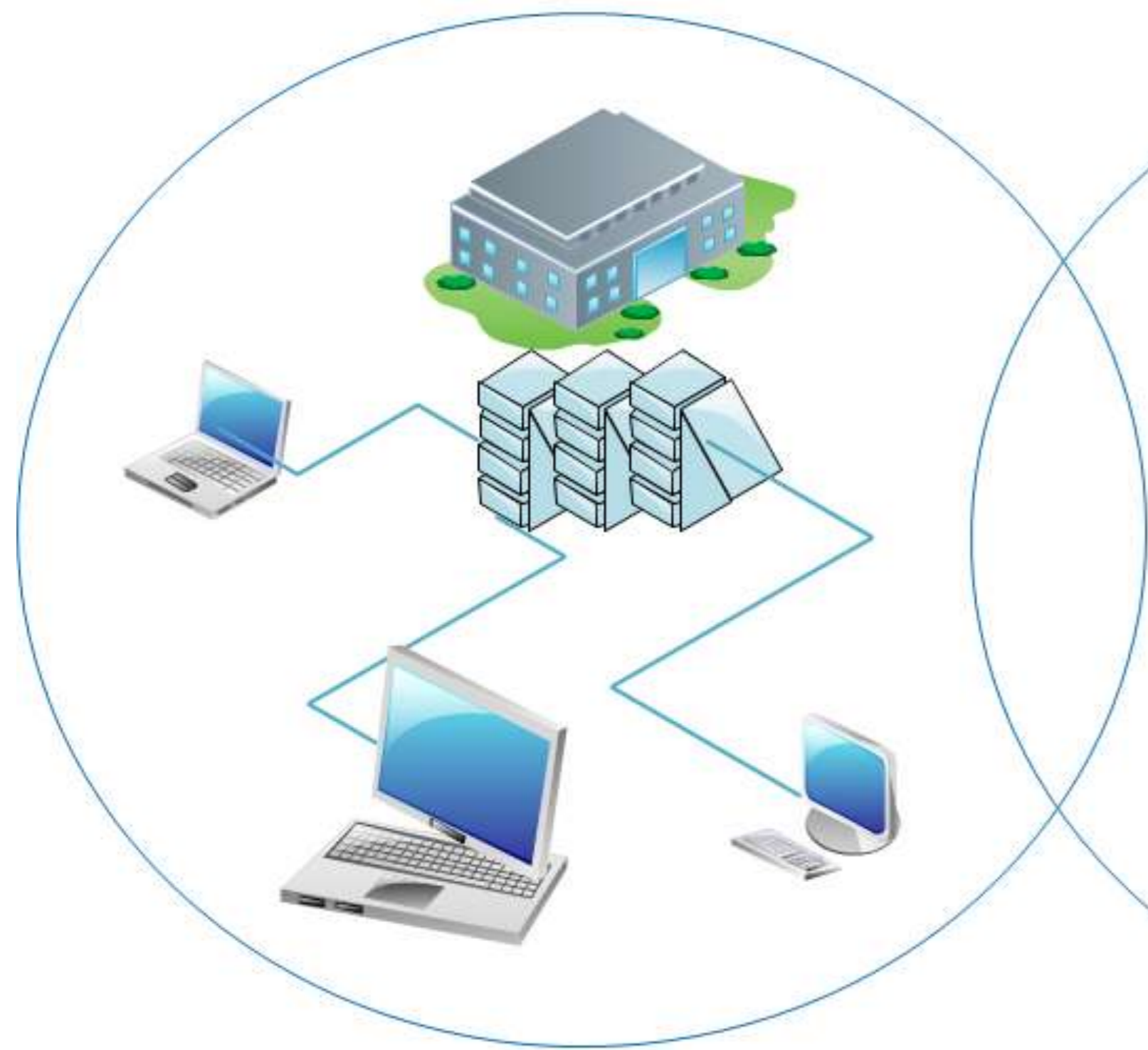
Edge Cloud Computing

“The cloud of the future will **extend** past today’s large, centralized data centers. The **next generation cloud** will follow your car. It will follow your phone. It will follow your sensors. It will be **distributed** and data driven and **everywhere**.

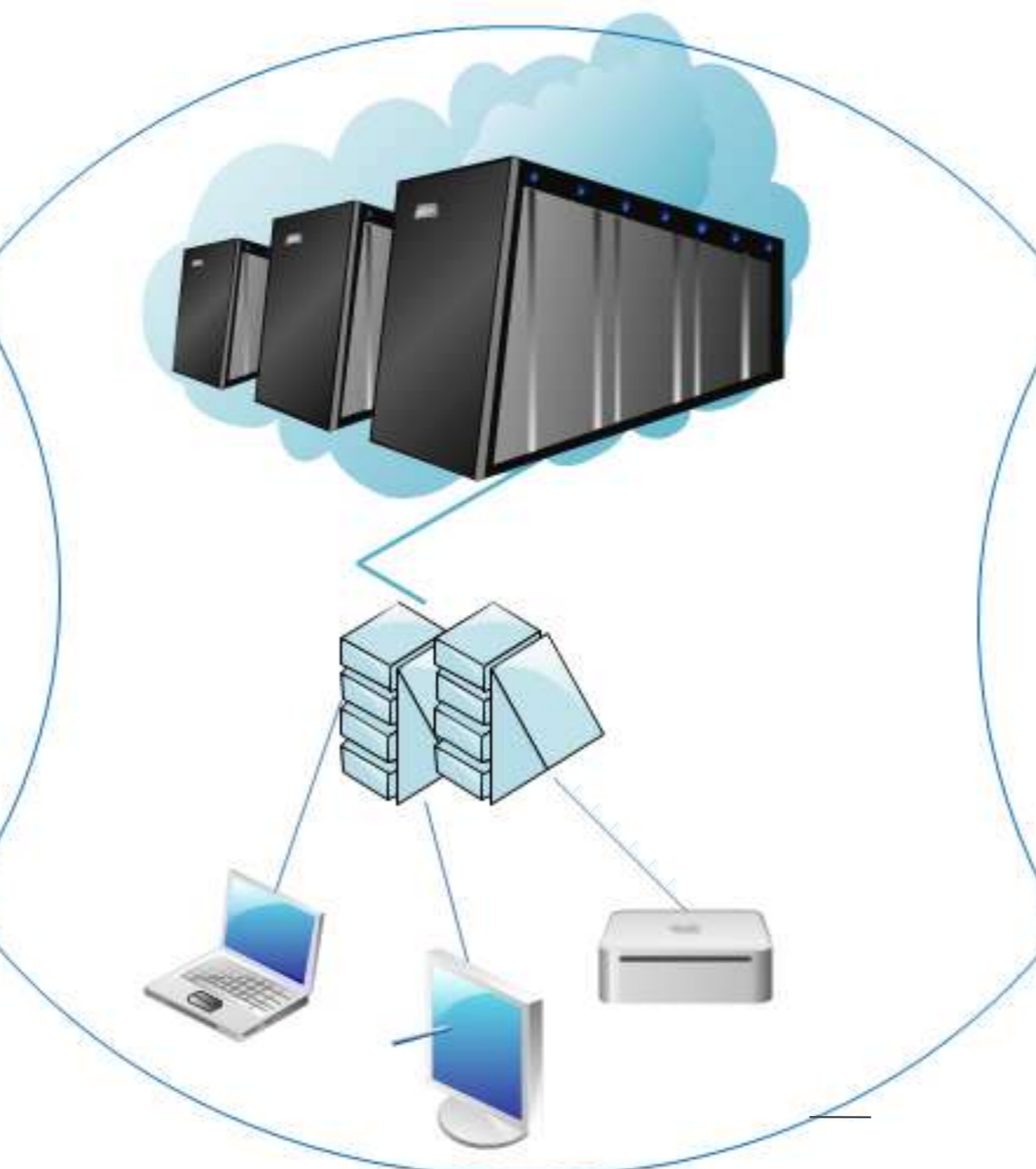
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— Alan Bock, Vice President, Crown Castle

Edge Computing



1st Network Infrastructure
1995-2010
PC + Internet

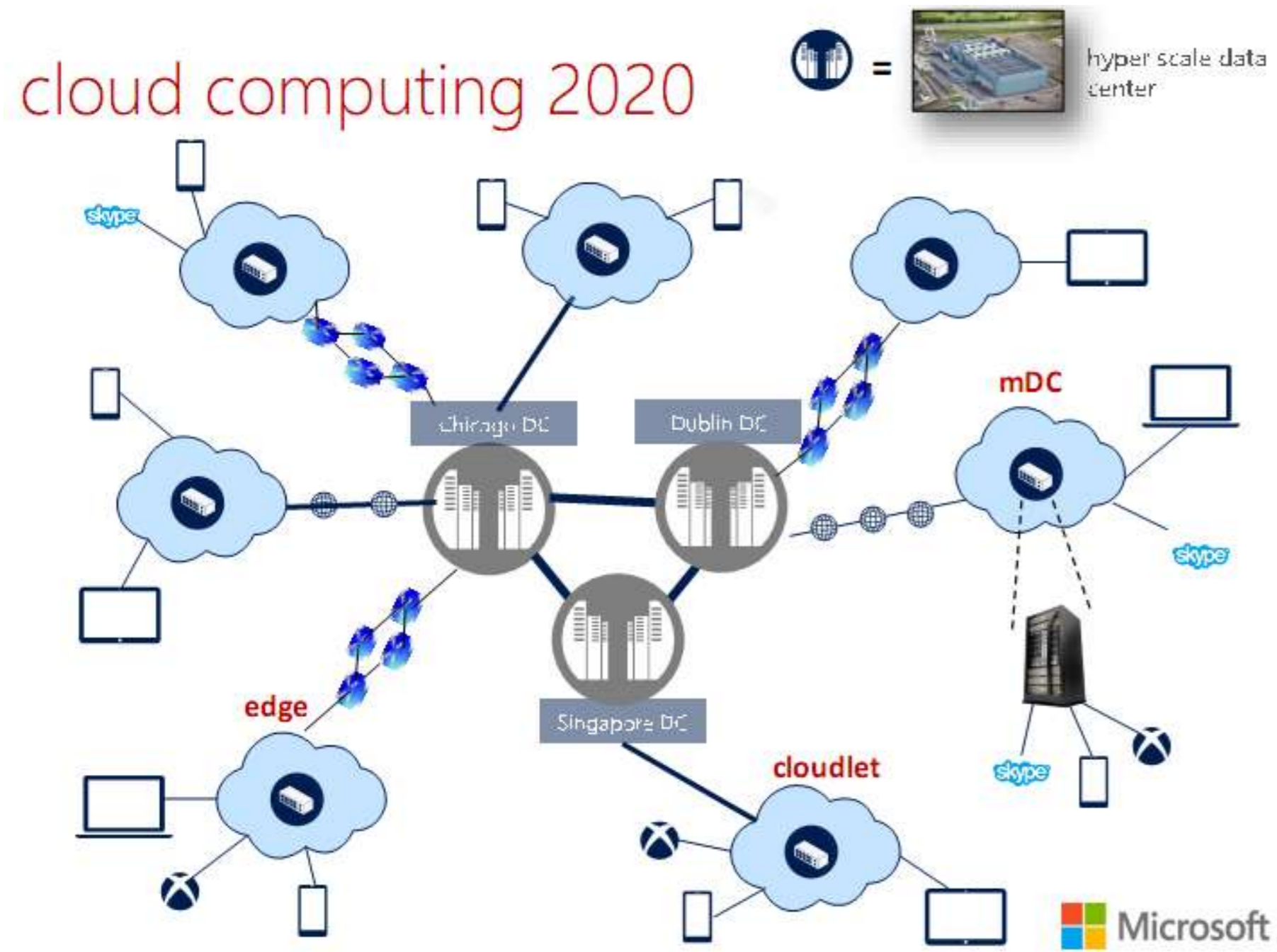


2nd Network Infrastructure
2005-2020
Mobile Device + Cloud

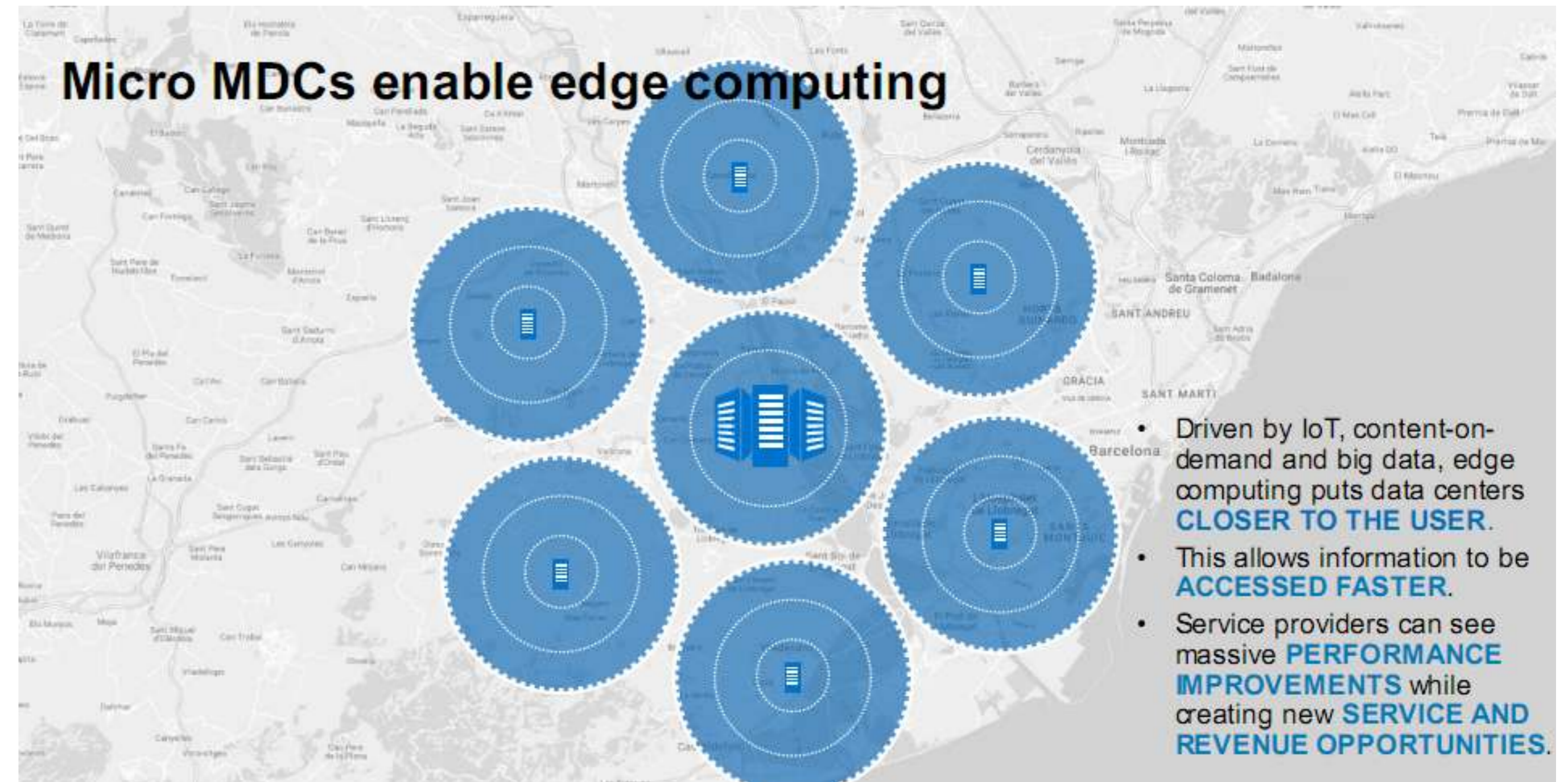


3rd Network Infrastructure
2015-????
IOT + Edge Computing + Cloud Intelligence

Edge Computing + Micro Data Center



Source: Microsoft



Source: Dell EMC

Content

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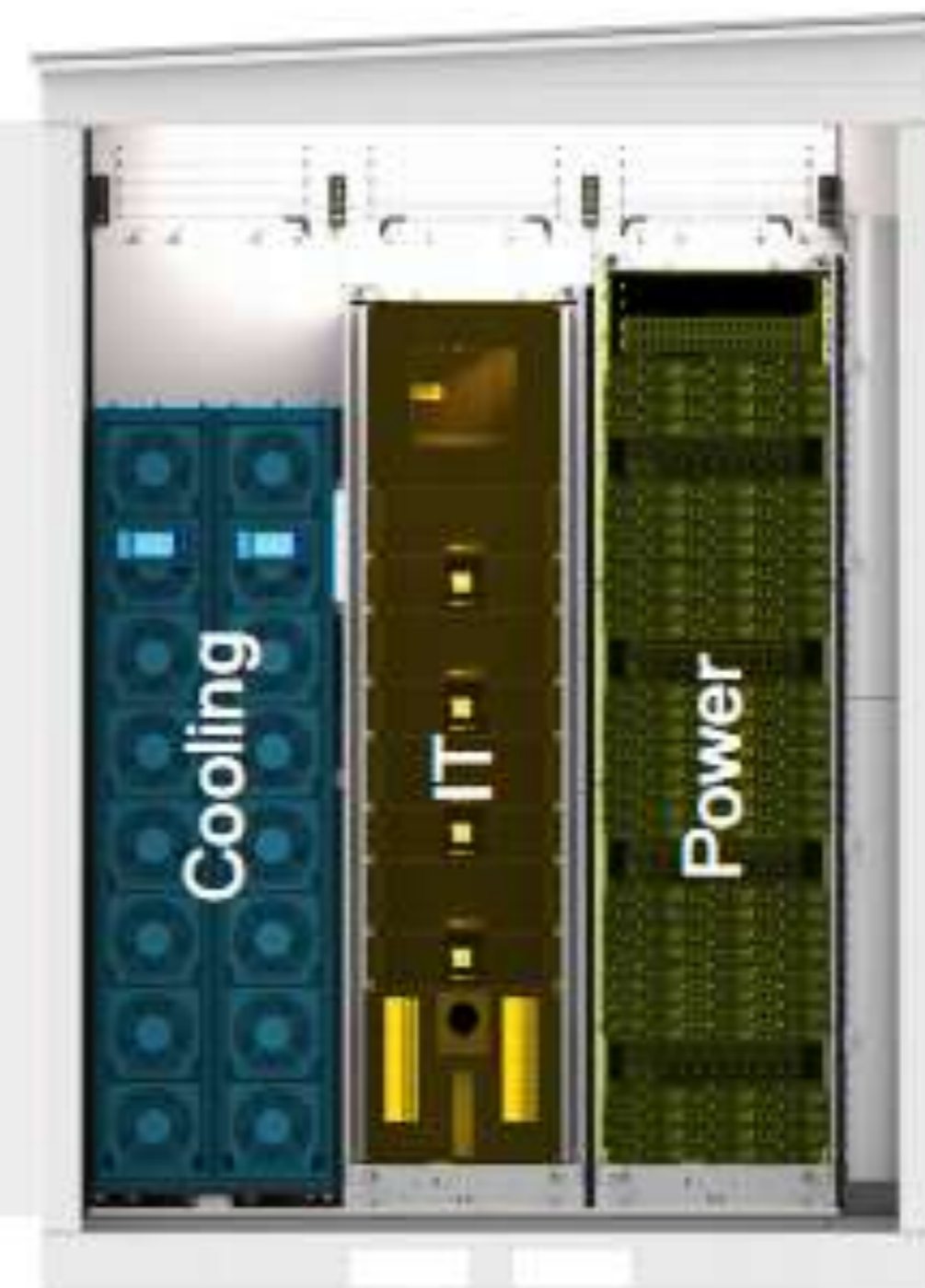
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Micro Data Center



Micro Modular Data Center

- A small, nimble MDC designed for service providers
- Speeds the storage, processing and analyzing of nearby data



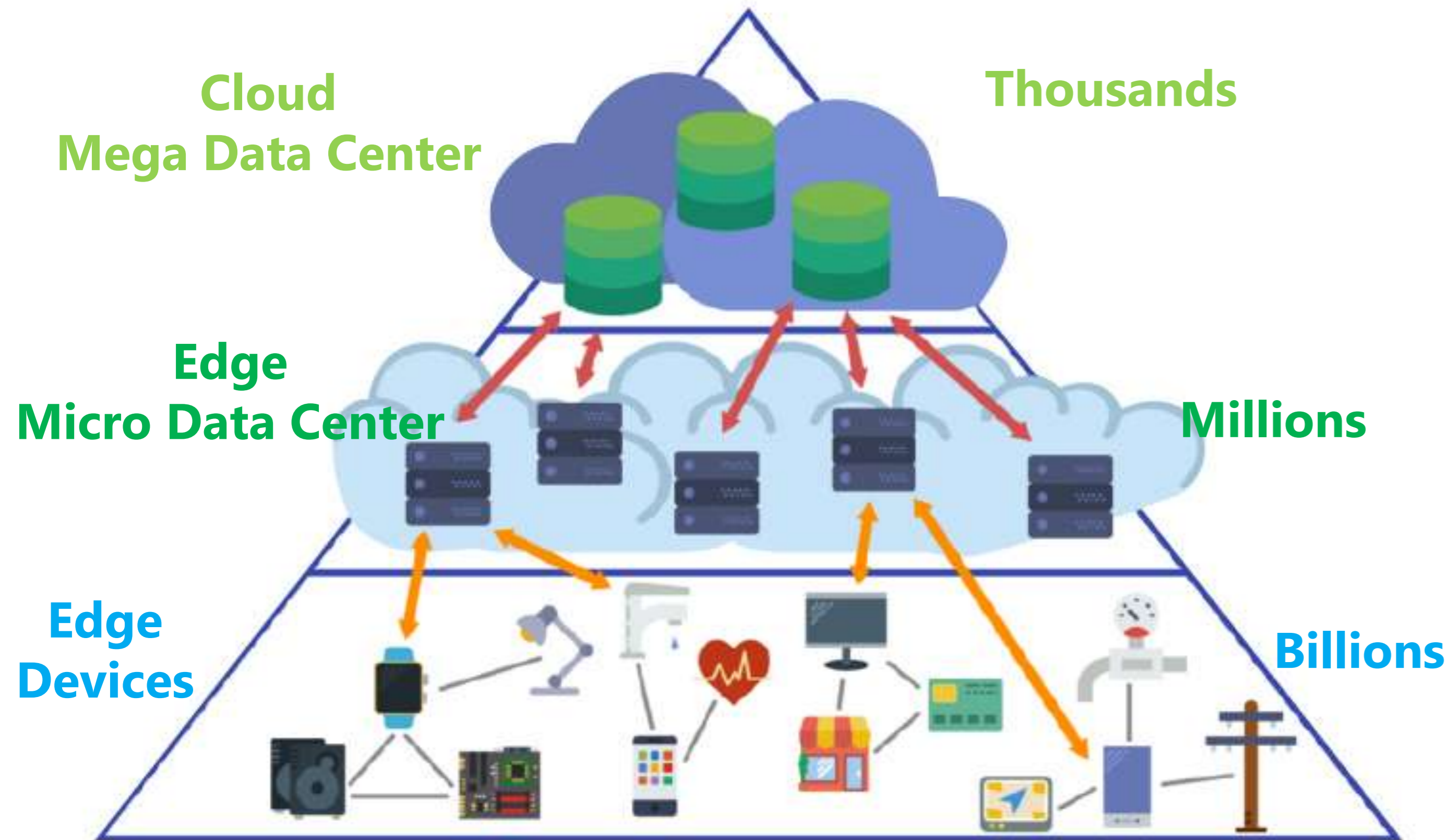
Built and Supported by Dell EMC

- Tailored configurations based on customer needs
- Pre-integrated solution for ease of deployment

Micro Data Center

Micro data center is a **standalone rack-level** system **engineered and assembled in a factory** environment, and shipped in **portable** enclosures that **integrate all necessary power, cooling, security, and management software.**

Micro Data Center



Edge Requirements

- Speed of Deployment

- Management and Monitoring

- Easy of Duplication

- Energy Efficient and Cost Effective

Micro Data Center

Micro Data Center solution applies to a broad base of applications that require **low latency, high bandwidth**, or both to share and **analyze a quickly growing amount of data** across **the distributed sites**.

- ✓ **Banks and financial services firms**
- ✓ **Governments**
- ✓ **Manufacturers**
- ✓ **Telecoms**
- ✓ **Retailers**
- ✓ **Hospitals and many more...**

Content

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ATTOM MDC Platform



Integrated for Deployment



Easy Expansion and Duplication



Unified Monitoring and Management



Flexible Customization

ATTOM MDC Platform

Customization & Specialist Support

- Modular sub-system platform with configurable ups, battery, cooling, monitoring, rack and power management systems.
- Professional support team with deep engineering background of power, cooling and monitoring with more than 15 years experience.



ATTOM MDC Platform



2000 mm

ATTM-06T
27U Available Space
6K UPS
3.9kW Rack Mount Cooling



2000 mm

ATTM-06F
33U Available Space
6KUPS
5.6kW InRow Cooling



2000 mm

ATTM-10S
33U Available Space
10K UPS
7.6kW InRow Cooling

ATTOM MDC Platform



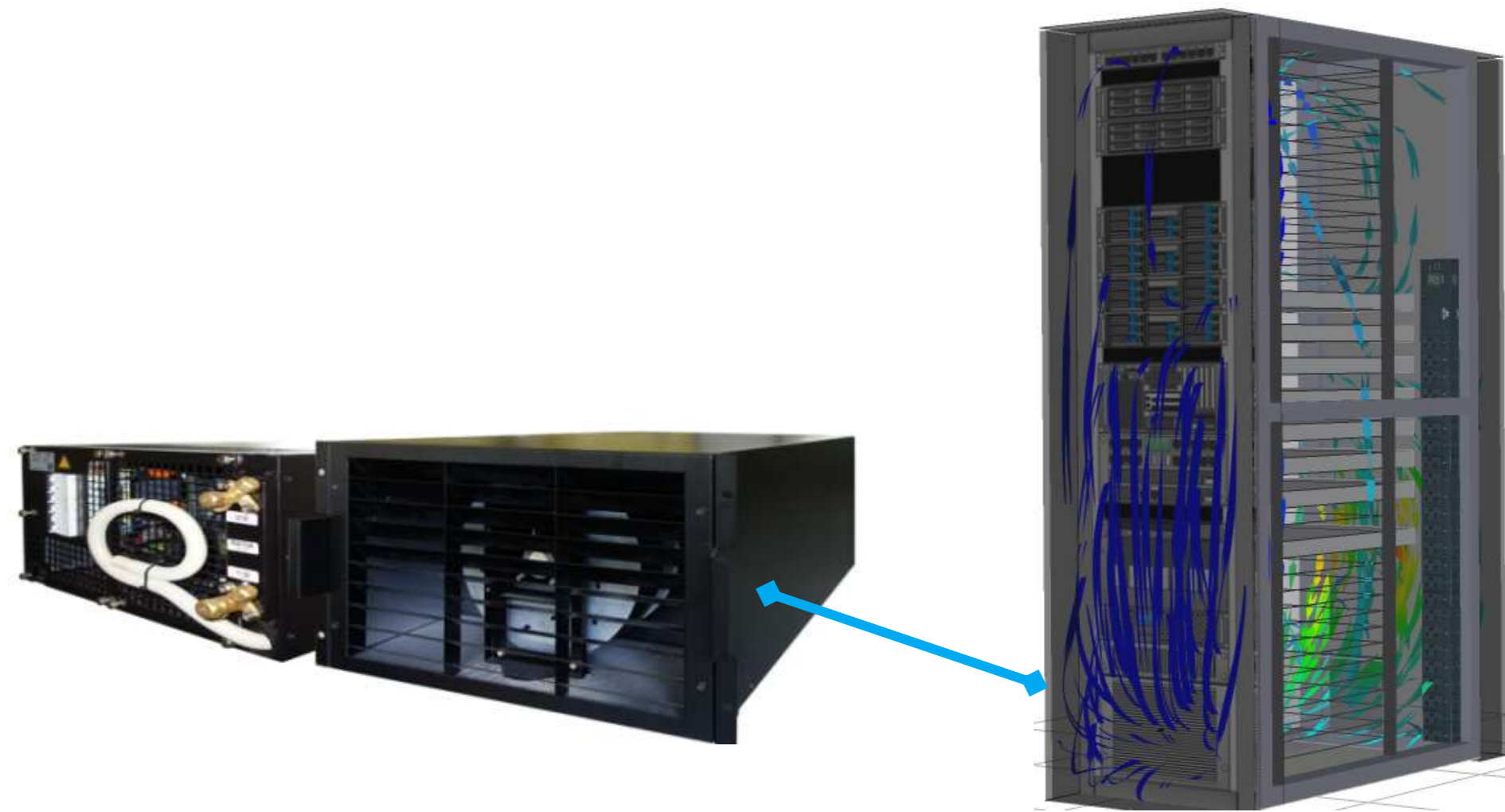
UPS System

- Rack Mount UPS 6kVA-30kVA, flexible to install and easy to expand.
- High frequency and high efficiency.
- Standard rack mount battery and optional with long time battery system.

Power Management System

- Power module with main power input, power output, ups output, surge protection and power metering.
- Basic PDU/Smart PDU.

ATTOM MDC Platform

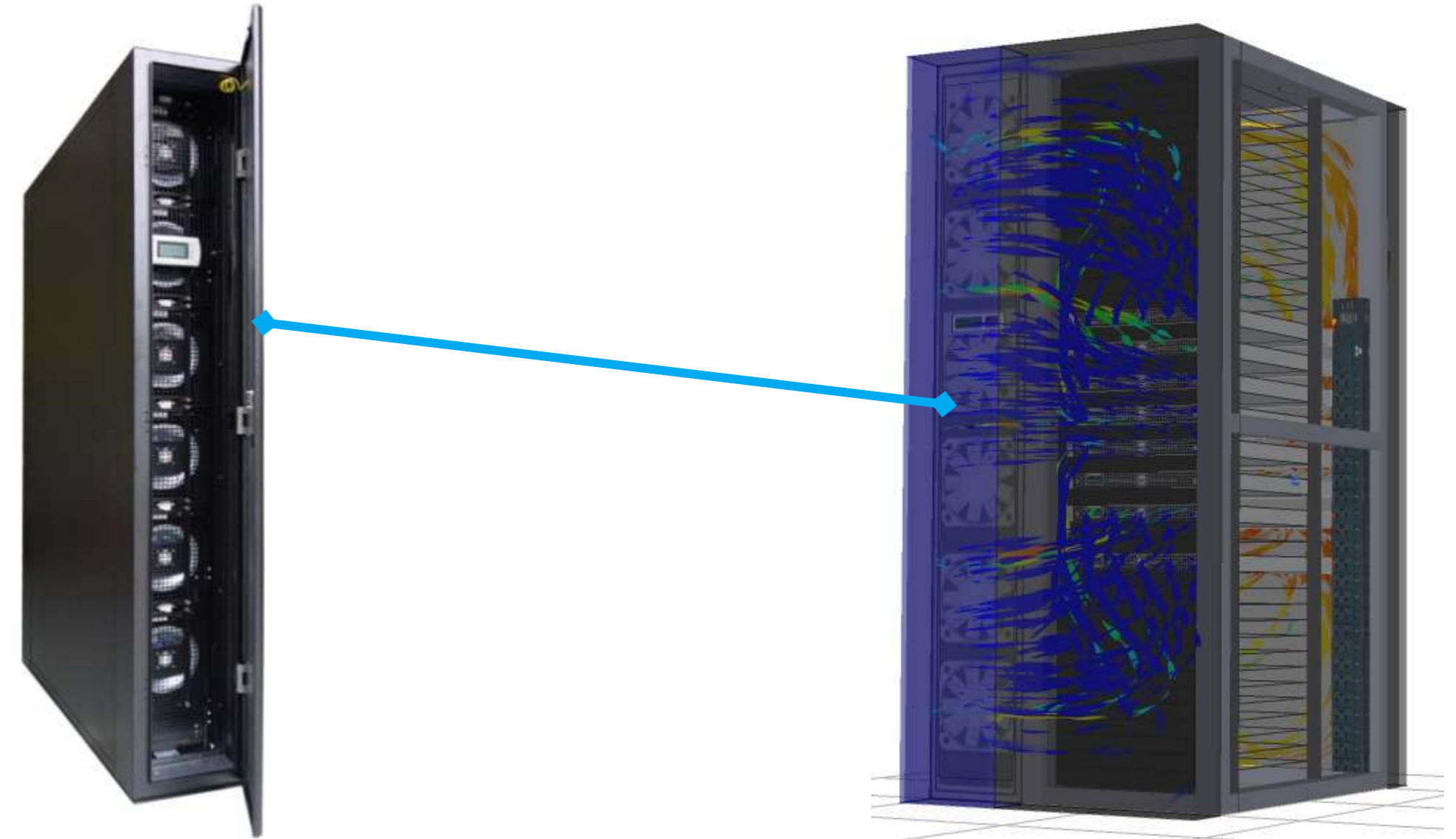


InRack Cooling

- 3.9kW capacity.
- Capacity adjustable matching changing load.
- Rack mount in standard rack.

Solution Features

- Closed Cold/Hot Aisle and highly efficient.
- Fully closed system is dust proof and noise canceling.
- **Supply temperature control to prevent condensate.**



InRow Cooling

- Capacity from 5kW to 40.9kW
- Capacity adjustable matching changing load.
- InRow design matching cabinets size.

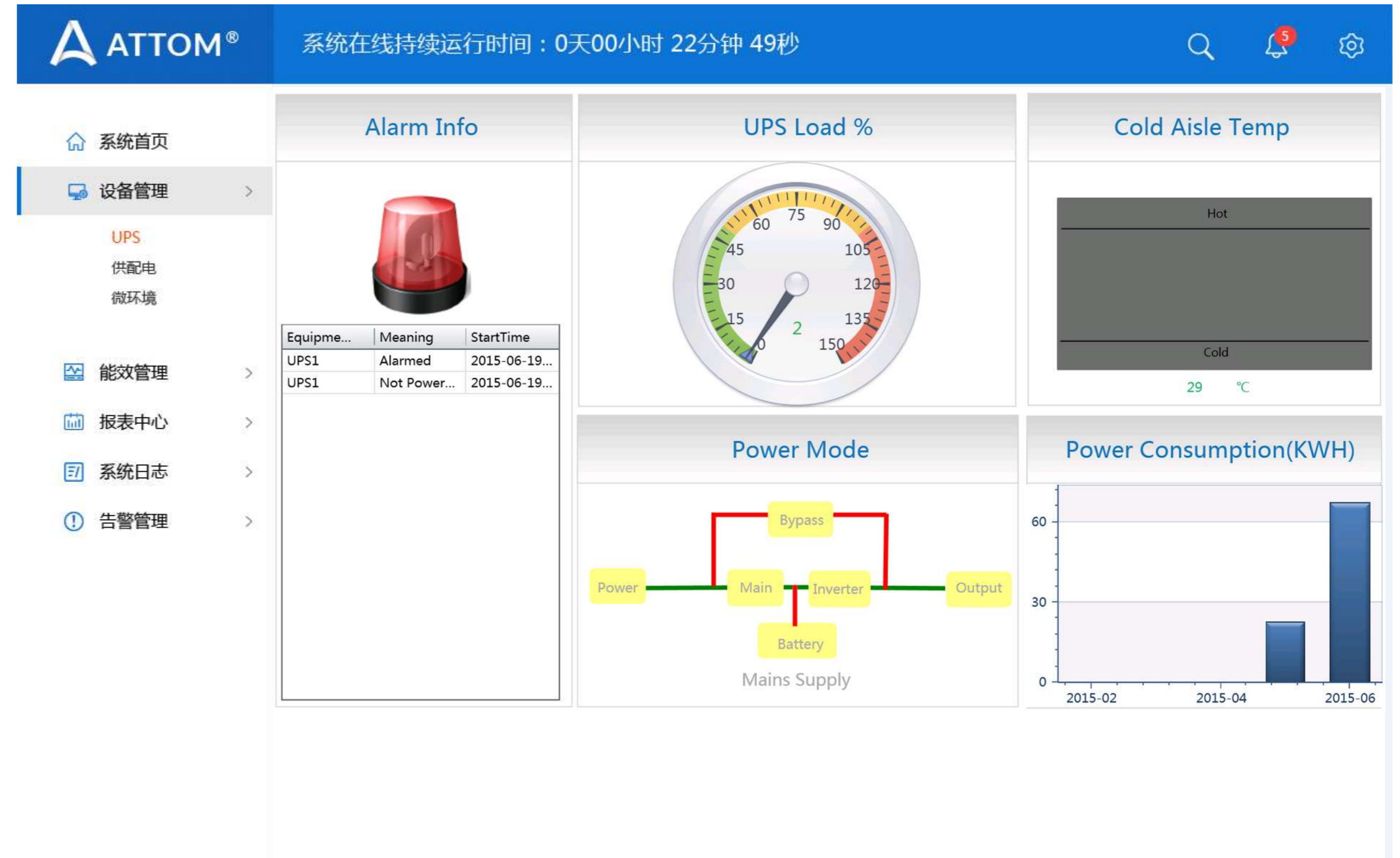
Solution Features

- Closed Cold/Hot Aisle and highly efficient.
- Fully closed system is dust proof and noise canceling.
- **Supply temperature control to prevent condensate.**

ATTOM MDC Platform

Monitoring and Management

- Monitor facilities status and adjust set-point through real-time web access.
- Full alarm display and management. Get first hand notification with email and SMS.
- Precise efficiency management with full report of energy consumptions.



ATTOM MDC Platform

Expansion Example



ATM-06F



ATM-06F
+
Expansion cabinet



ATM-06F
+
Expansion cabinet + ATM-06F
+
Expansion cabinet

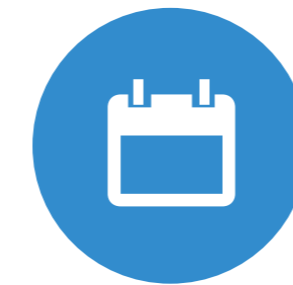
1st Phase

1 year later

2 years later

Why Us ?

Discuss With Us
@BOOTH: I64



Product

Product designed with heart featuring balanced quality and cost to improve your business margin and performance.



Support

A professional team always standby with service spirit and quick response to support.



Customization/ODM/OEM

Lego style platform is fully customizable as per your requirements to build your own micro data center solution and boost your own business.



Thank you !

Vision

We believe the world will be totally connected. The connections are creating intelligence and, a BETTER world.

Mission

We create micro data center products to accelerate connections and intelligence throughout to the edges.

