


A man and a woman are standing in a server room, looking at a digital network overlay. The man is on the left, wearing a grey sweater and blue pants. The woman is on the right, wearing a white shirt and black pants, pointing at the overlay. The background is a dark server room with blue lighting and a complex network of glowing blue lines and nodes.

# DIGITAL

## Data Centers of the Future

Presented by: Christos Famelos  
SEE Datacenter EcoStruxure Sales Manager





Our purpose is to **empower all to  
make the most of our energy and resources**  
bridging progress and sustainability for all

At Schneider, we call this **Life Is On**





**Our mission is to be  
your digital partner for Sustainability and Efficiency**



# Digital disrupts Efficiency & Sustainability

**3x IoT**

IoT connections 2018-2025 (\*GSMA)

**>5x Big Data**

generated data from 33 ZBs today to 175 ZBs by 2025 (\*IDC, 2018)

**6x AI**

worldwide spending on cognitive and AI systems btw 2017 & 2022 (International data corporation)



**Digital**  
builds a  
**smart**  
future

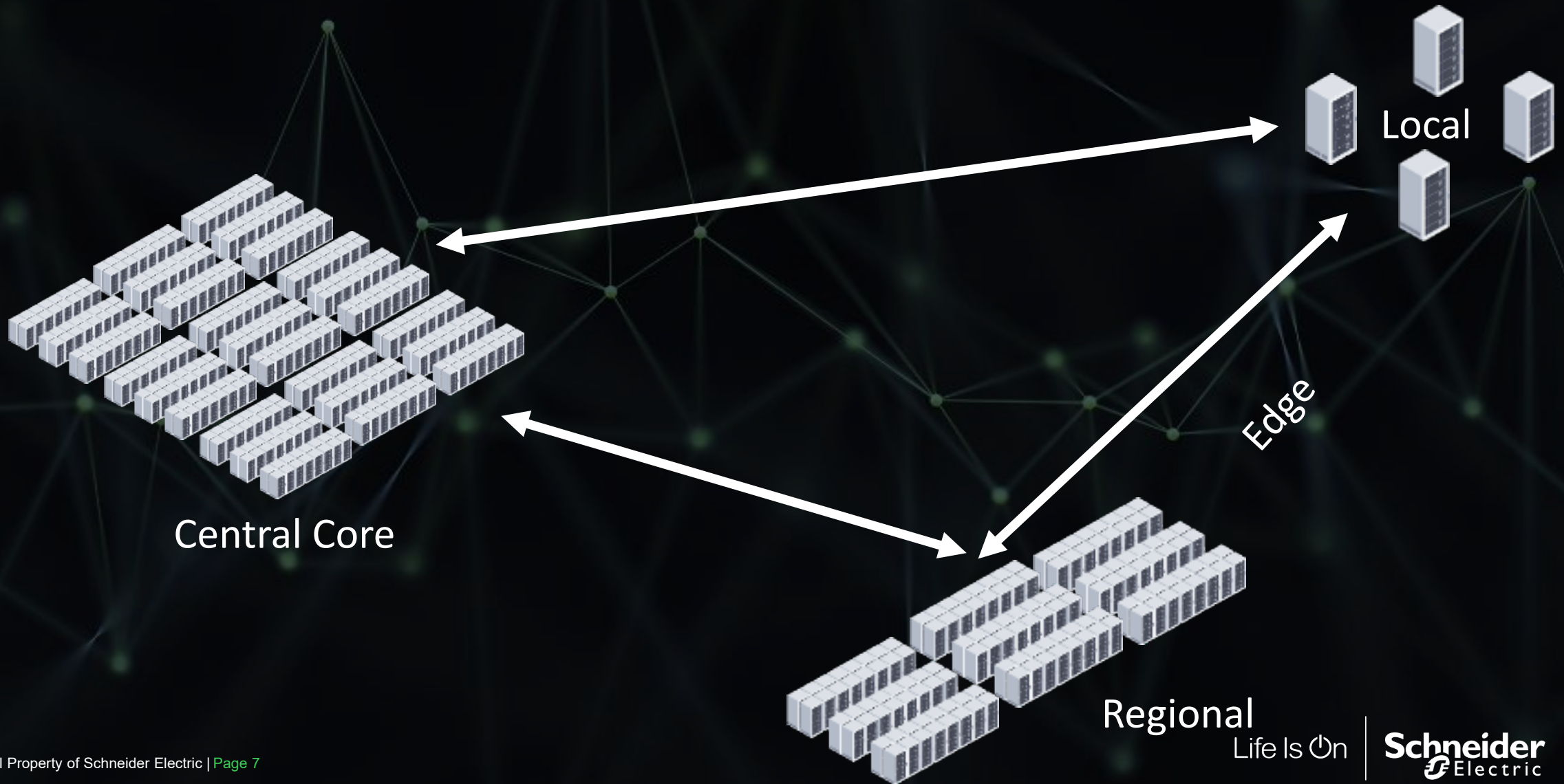
Home  
Building  
Industry  
Infrastructure  
Cities



# **Data Centers** *are the Heart of the Digital World*



To support the acceleration of digital transformation the Data Center architecture is increasingly hybrid, all work together



# Data Centers need to evolve to meet the needs of this digital transformation



**500%**

Growth in global data generated by 2025<sup>2</sup>



**50%**

Increase in electrical footprint of all data centers by 2025<sup>1</sup>



**75%**

of data will be processed at Edge by 2025<sup>4</sup>



**24%**

of executive's report that over 50% or more of their data centers will be self-configuring by 2025<sup>3</sup>

Schneider analysis<sup>1</sup>, IDC 2019<sup>2</sup>, Forbes Insights 2020<sup>3</sup>, Gartner 2018<sup>4</sup>



# Our value is focused in 3 areas

- Deliver the broadest portfolio of **connected offers**
- Design and package **integrated systems** in innovative ways
- Increase availability and efficiency with leading **software and services**

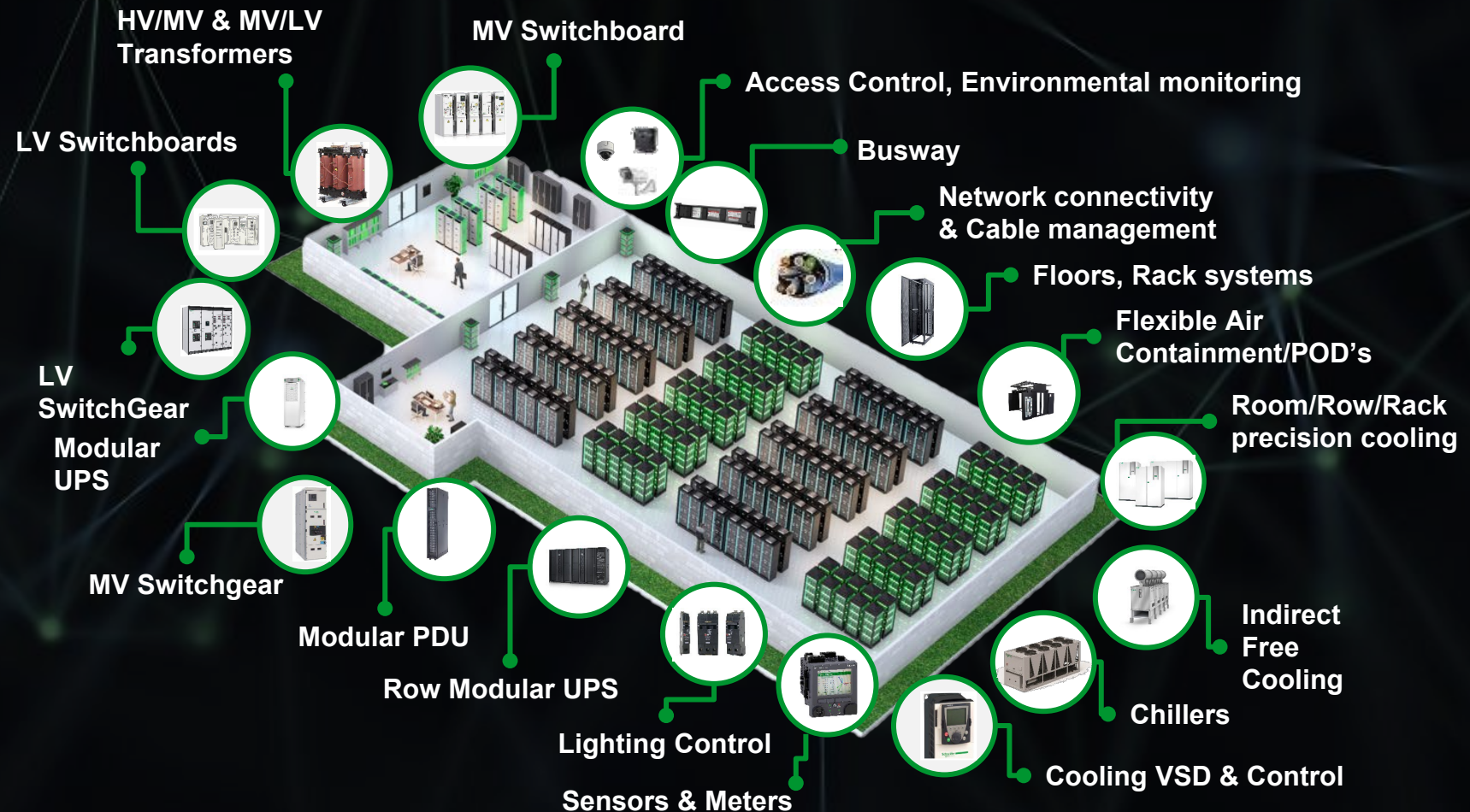
# Our large portfolio of connectable data center solutions spans from rack to row to room to building

## Software and Services

Monitoring and Dispatch  
Asset Advisor

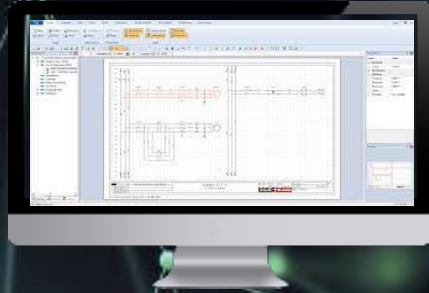
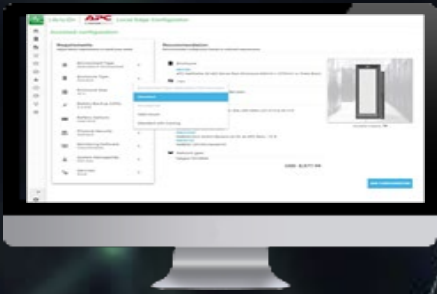
Resource Advisor  
Building Advisor  
Power Advisor  
IT Advisor

IT Expert  
Power Monitoring Expert  
AVEVA Unified Operations Center  
Security Expert  
Building Operations  
Power SCADA Operations





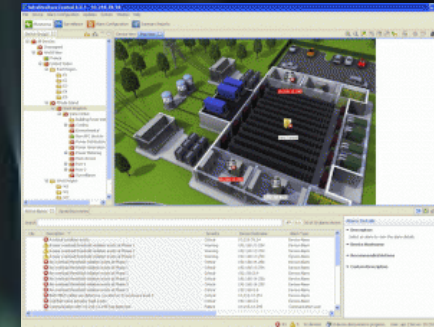
# We leverage digital design tools to package solutions in a quick and precise way



Data Center Designer - Power Design - ETAP - IGE XAO - ALPI

## Digital Tools

Portfolio of On-Line configuration tools for  
Examples - *IT Room, Power Systems,  
Cooling Sysrems, Edge Data Centers*



- 80,000+ data center configurations per year
- 70 GW of capacity configured

*"I use the Designer everyday, and the output helps 'paint a picture' for the customer."*

# Reference designs provide performance specifications, spacial layouts, and costs



## Designs

More than 100 data center reference designs available

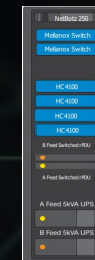
From 10kW – 100MW Designs



Centralized



Regional Edge



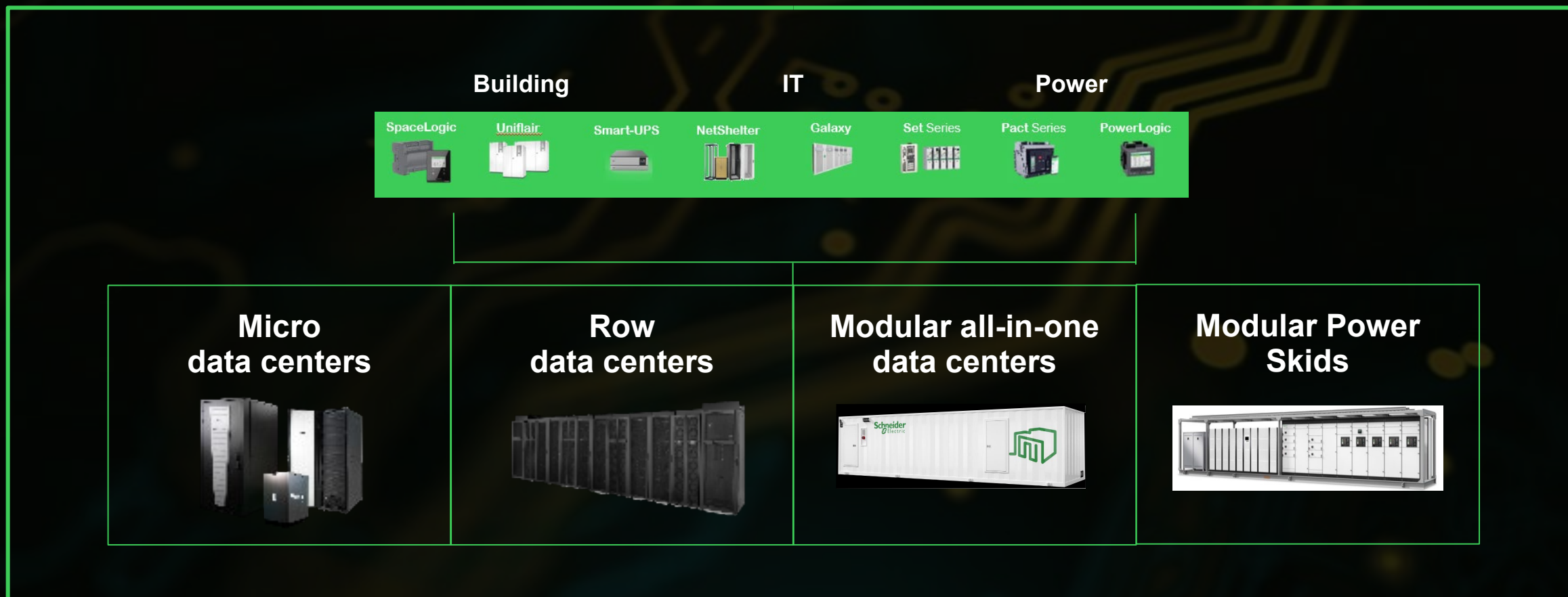
## Local Edge

Including Commercial & Industrial

*“..covers the high-level requirements of my clients and gives them quickly a realistic view of the project so we can kick off the project faster in a more controlled and deterministic fashion”*

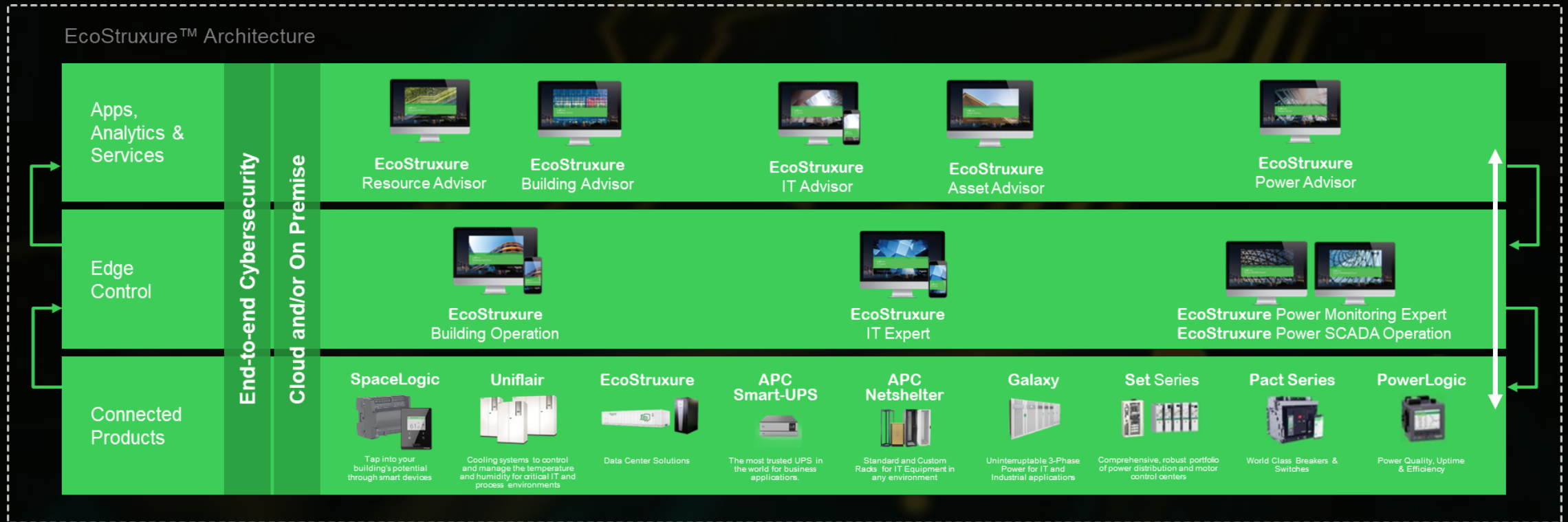


# Integrated systems minimize risks, simplify deployment and management





integrates connected products, software and services across Power, Cooling and the IT room



Domains of Expertise

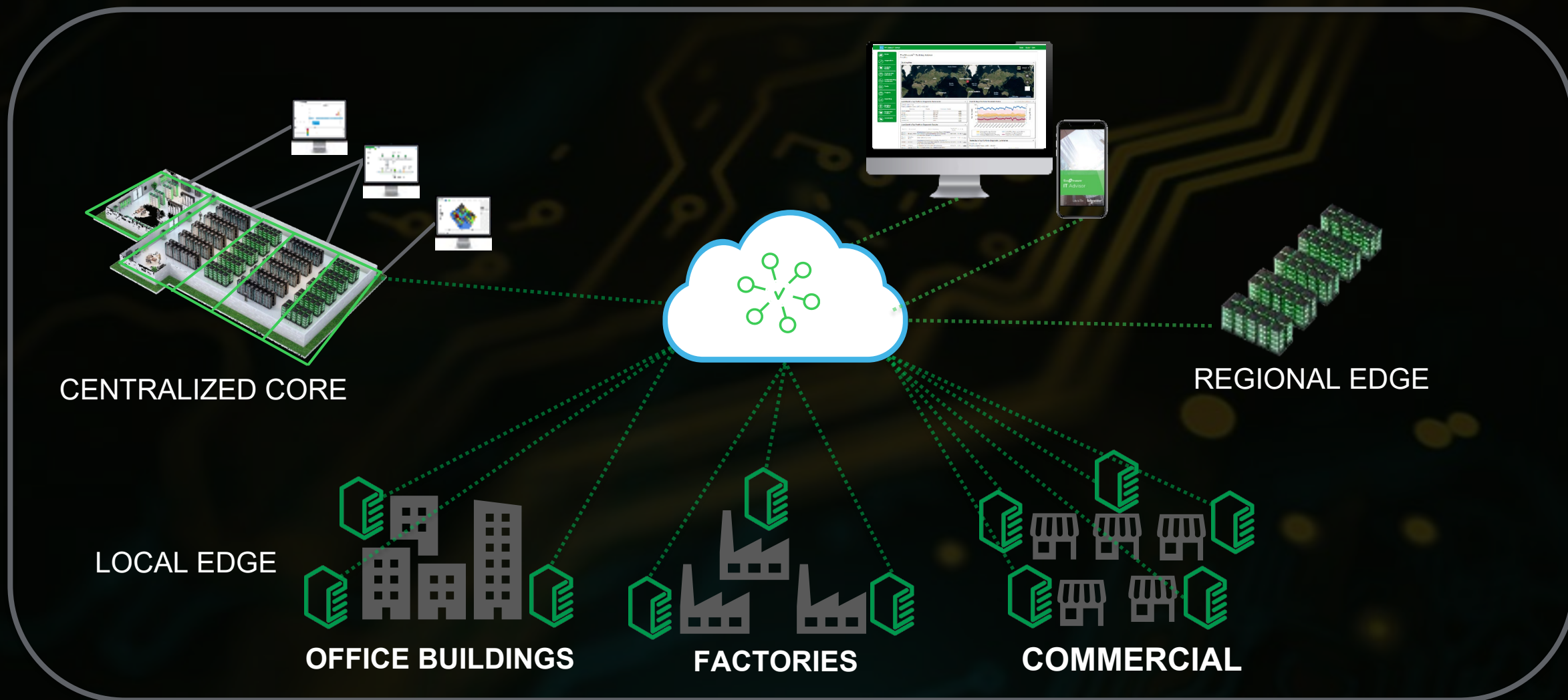
BUILDING

IT

POWER



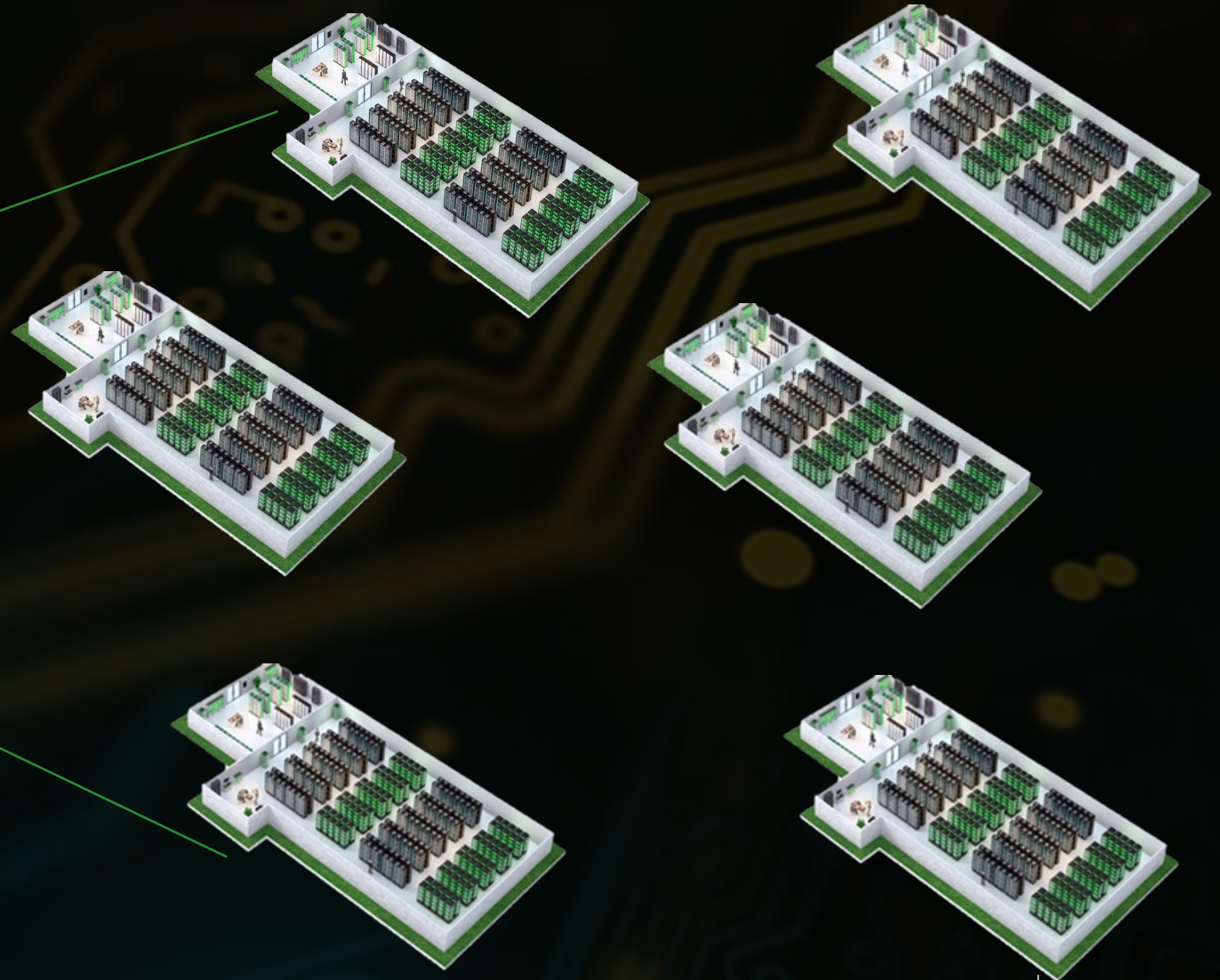
# Management can be done at the data center level and across the entire data center architecture



# AVEVA Unified Operations Center brings a centralized view bringing end-to-end operational visibility across large data center facilities



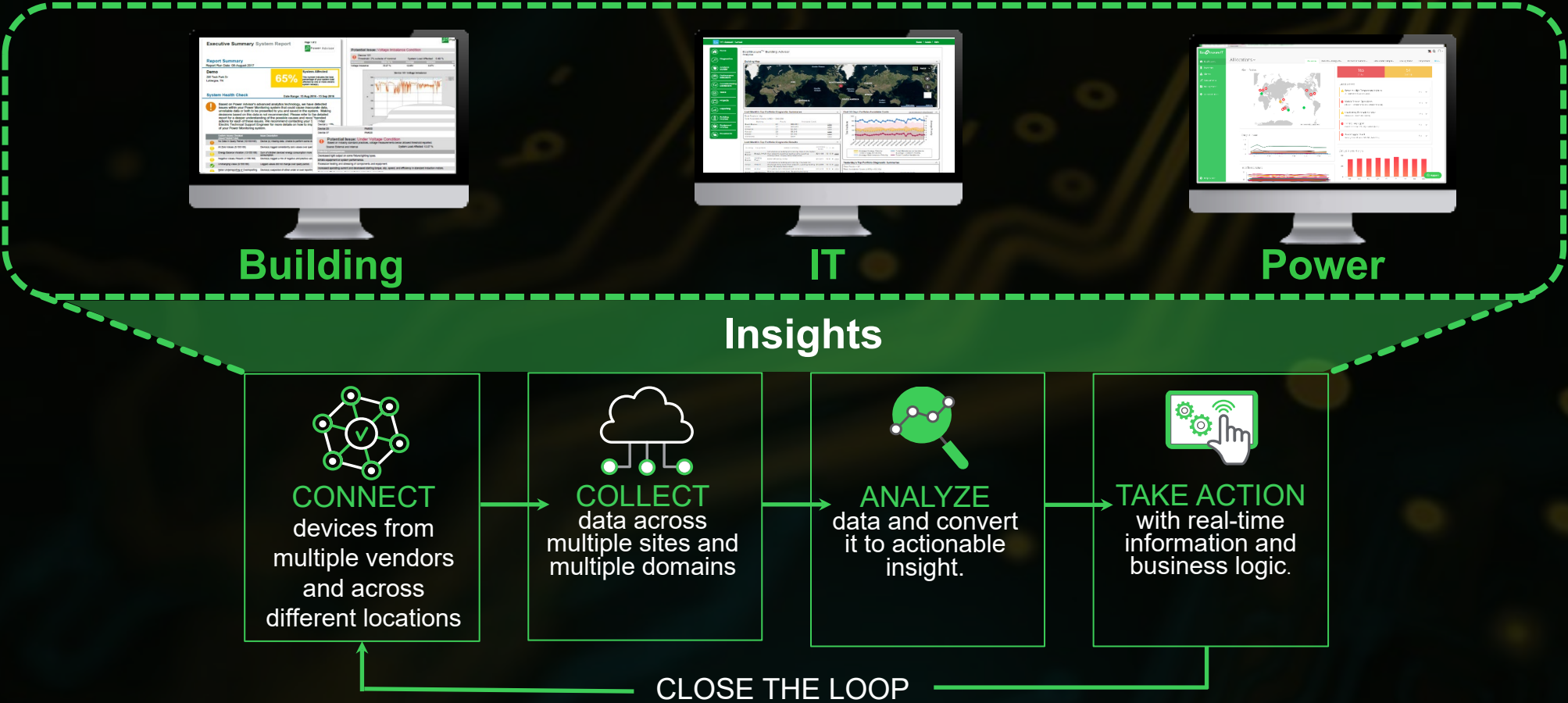
**AVEVA**<sup>TM</sup>  
Unified Operations Center



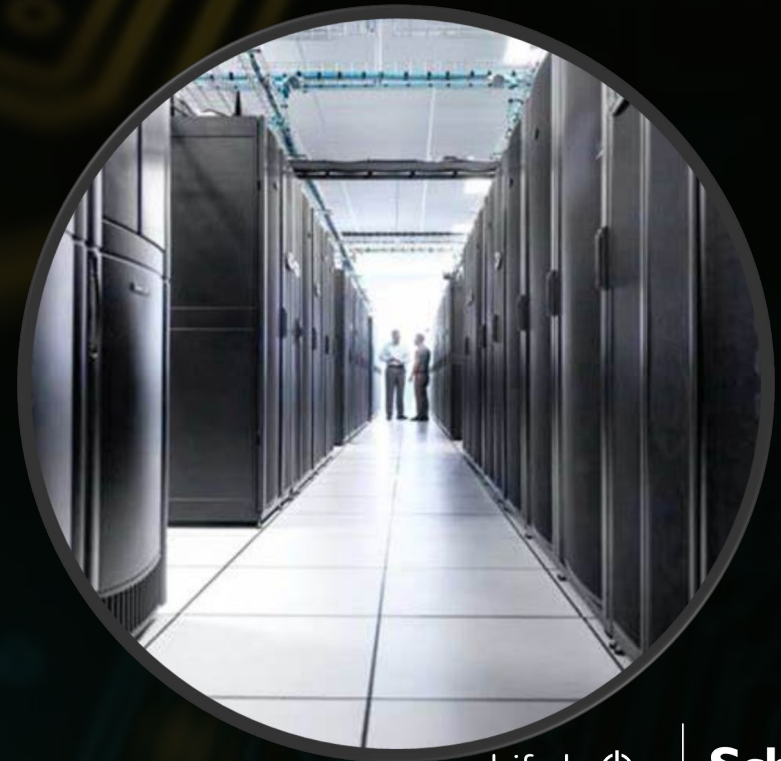
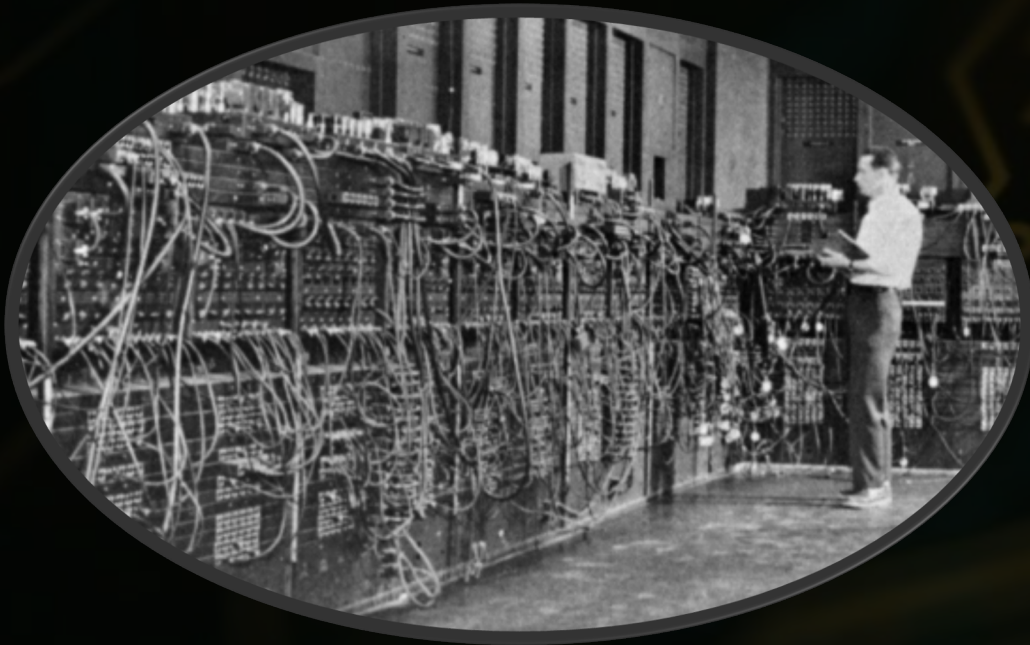


# The data collected across Power, Cooling and the IT room turns into analytics and recommendations with linkage to service network

## Experts & Advisors



We have evolved the original transistor-based Data Centers of the past that were very inefficient, unmetered, static, and unreliable





**Data Centers** of  
the future  
Is our **VISION**  
*where:*

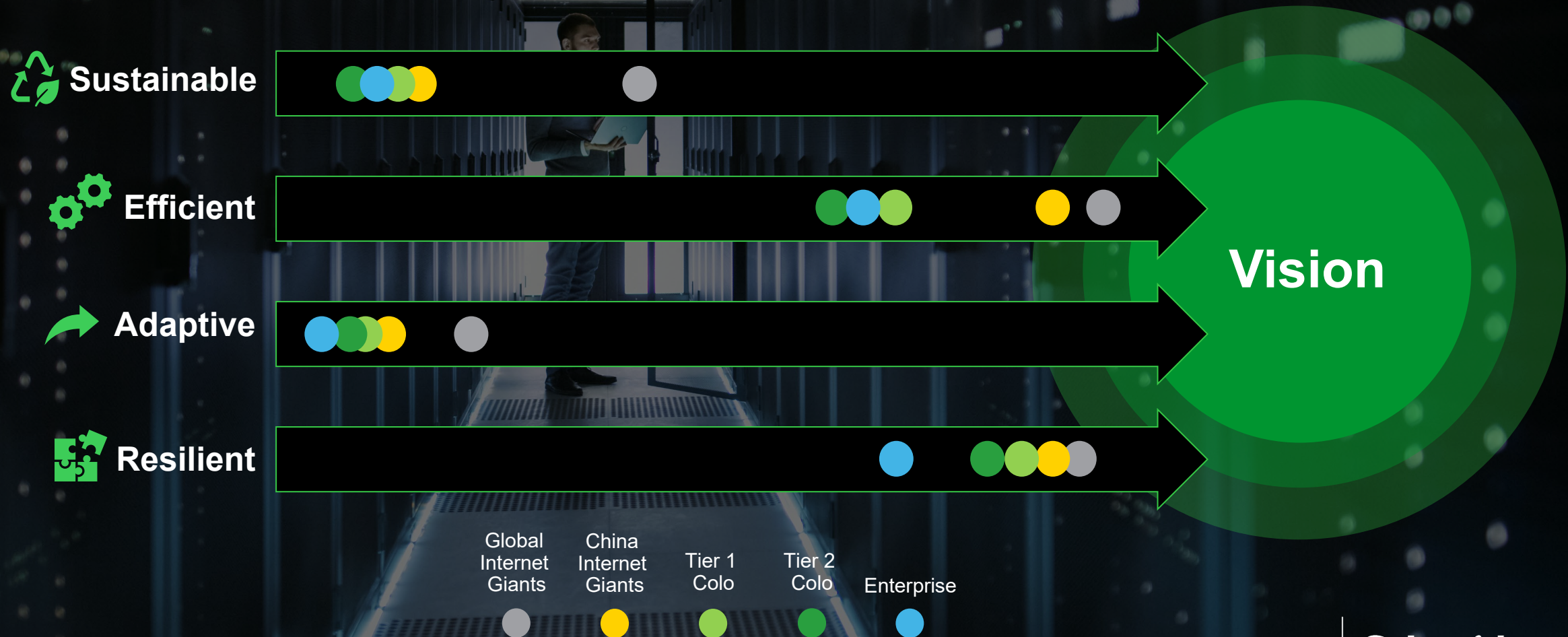
**Sustainability** ↑

**Efficiency** ↑

**Adaptability** ↑

**Resiliency** ↑

# Data center owner/operators are at different levels of maturity across the four vectors





A man in a dark sweater and light-colored trousers stands in a server room aisle, looking at a tablet. The room is filled with rows of server racks on both sides, with many green indicator lights visible. The floor is a light-colored grating.

**Digital transformation** is accelerating and  
**Data Centers** are the **heart** of it



**Schneider Electric has the **Expertise**,  
**Connected Solutions** and **Ambition** to be your  
trusted partner along the journey**



A man in a dark sweater and light-colored pants stands in a server room aisle, holding a tablet. The room is filled with rows of server racks on both sides, illuminated by blue and green lights. The perspective is looking down the aisle.

**We will help you establish a **vision** and  
build your **data center of the future****

Life Is On

