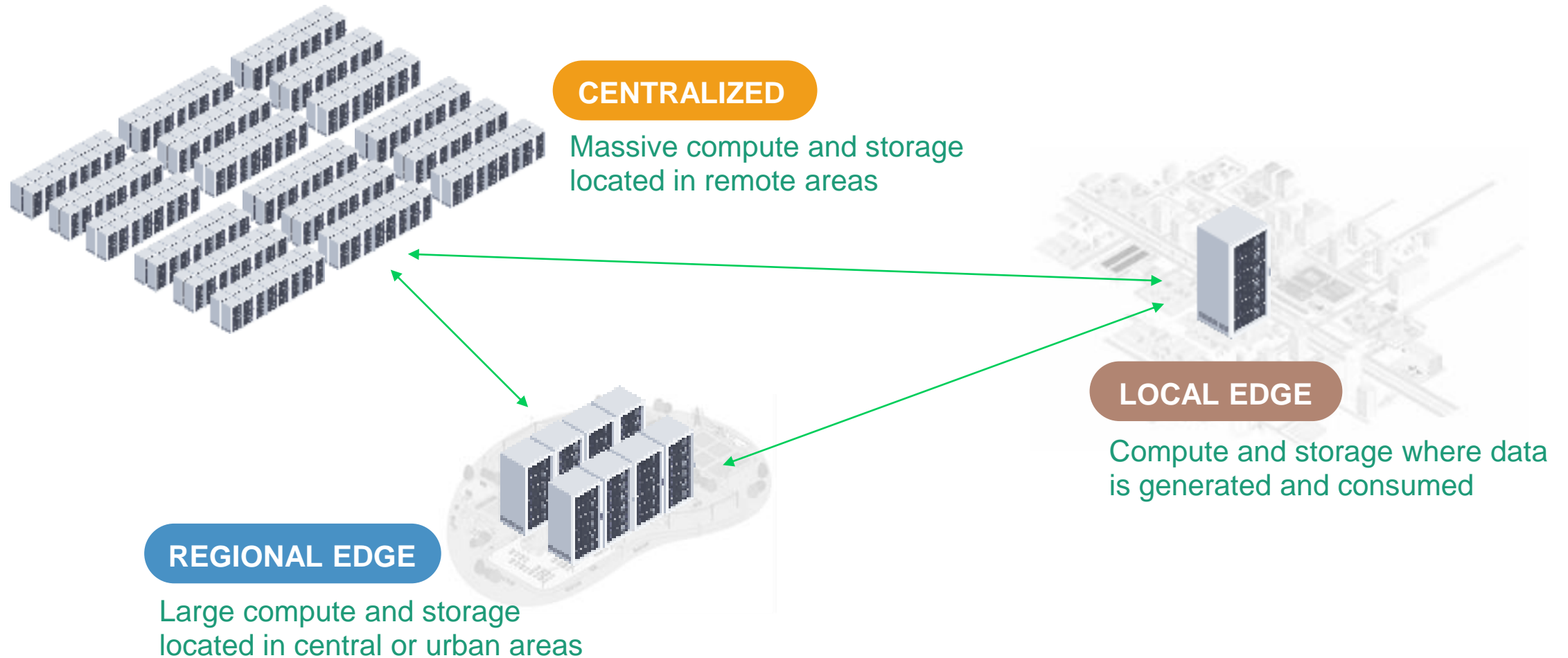




THE IMPACT OF 5G:

The last mile doesn't need a wire
to be in the fast lane

Our simplified view of Edge Architecture



Sample of Edge Compute Environments



Retail



Financial



Telco



Health Care



Government



Education

Challenges facing the Edge...

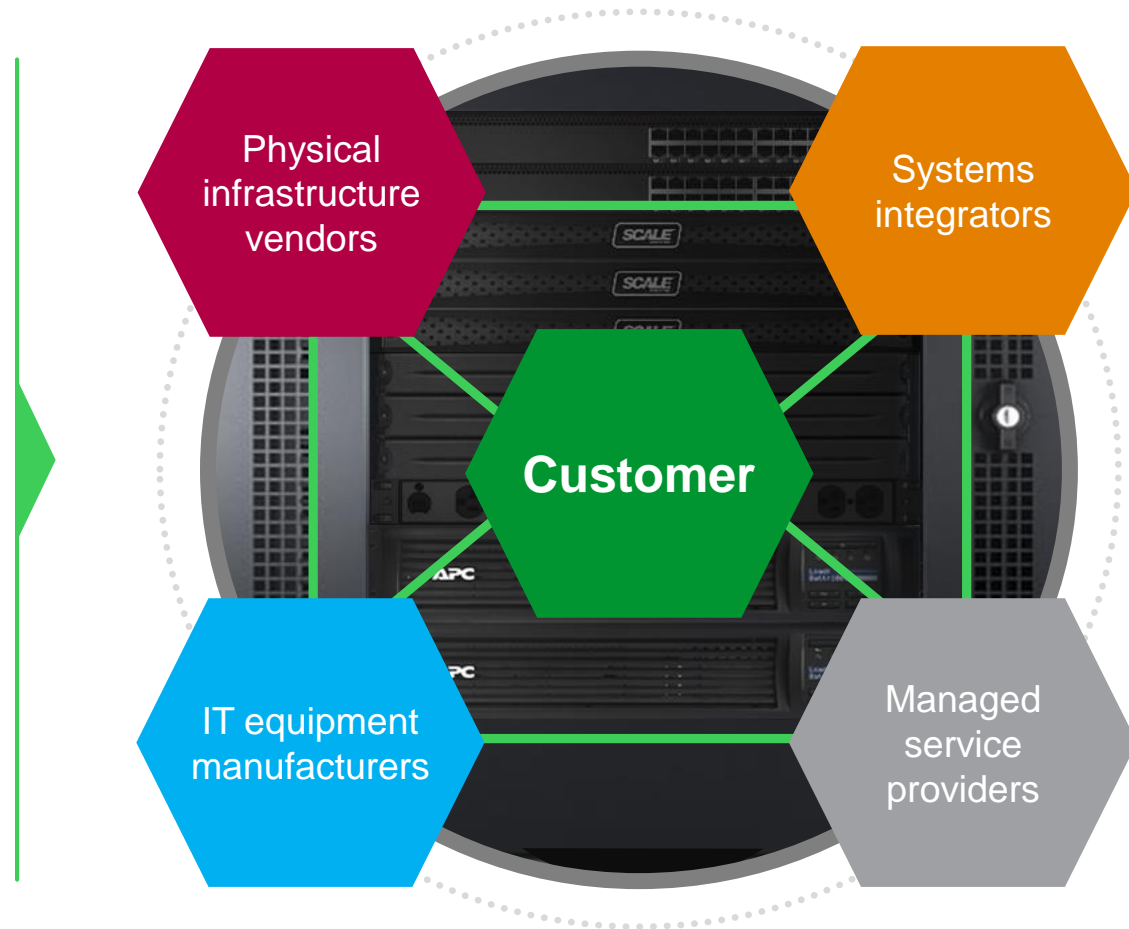
Edge Challenges



Many sites



Lack of onsite staff



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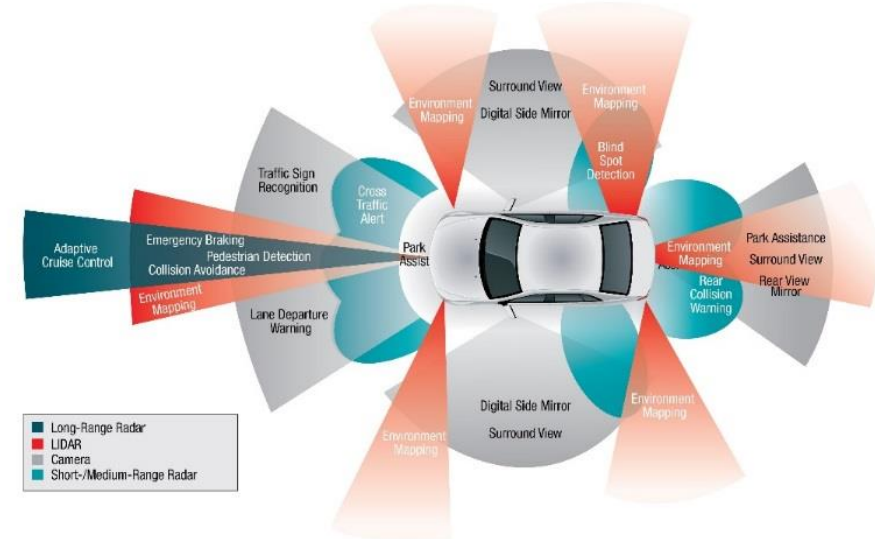
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The EDGE requires a different approach to the Design, Operation and Maintenance

Cars have forever been engineered for Human Drivers



BUT...Autonomous (Driverless) Cars require different approach to Design and Maintenance.



The Main Differentiator = ENRICHED SOFTWARE, OPERATION AND MAINTENANCE driven MOSTLY THROUGH SOFTWARE AND ANALYTICS

The Edge = Lights Out, Mission Critical Technology Space

Edge (at scale) Deployments requires a whole new Software, Service and Maintenance Strategy:

1. New SOFTWARE, SERVICE & MAINTENANCE standards
2. Cloud Connected Monitoring and Alarming
3. Automated Part Shipment, Service Dispatch, Scheduling and Invoice.

Smart Connect



Remote Monitoring



Mobile Insights



Edge Requirements from the Customer

Customer quote

"We can't afford problems with the UPS. It drives our whole store service - if it's down, the whole store is down: workstations, cash registers. We're unable to sell and to fulfill prescriptions."

We need the network to be monitored, potential problems are identified before they result in downtime and things are troubleshot remotely as much as possible.

They want the same brand and the types of service. They can't have multiple maintenance contracts, they need it to be standard across various regions.

We do proactive battery replacement based on age but the game-changer would be to prevent stuff before it happens.

Imperative to be managed



Edge has become part of the business value requiring it to be available (like a datacenter)



Unstaffed locations require low cost management and maintenance



Customers expect vendors to provide solutions not pieces and parts



In a connected world, data needs to generate value



How remote site management delivers on customer needs

Speed

- Fast initial set-up
- Faster time to resolution

Agility

- Vendor neutral monitoring
- Multiple management options (MSP NOC, Schneider Service Bureau)
- Management across all IT environments (Local to enterprise)

Lower Cost

- Improved lifecycle management of IT infrastructure

Simplification

- RMM integrations
- Centralized device management
- Digital delivery of status notifications
- Automated firmware updates

Conventional management tools are inadequate to address the challenges at the edge



The industry needs improvement in 3 key areas to make the edge resilient

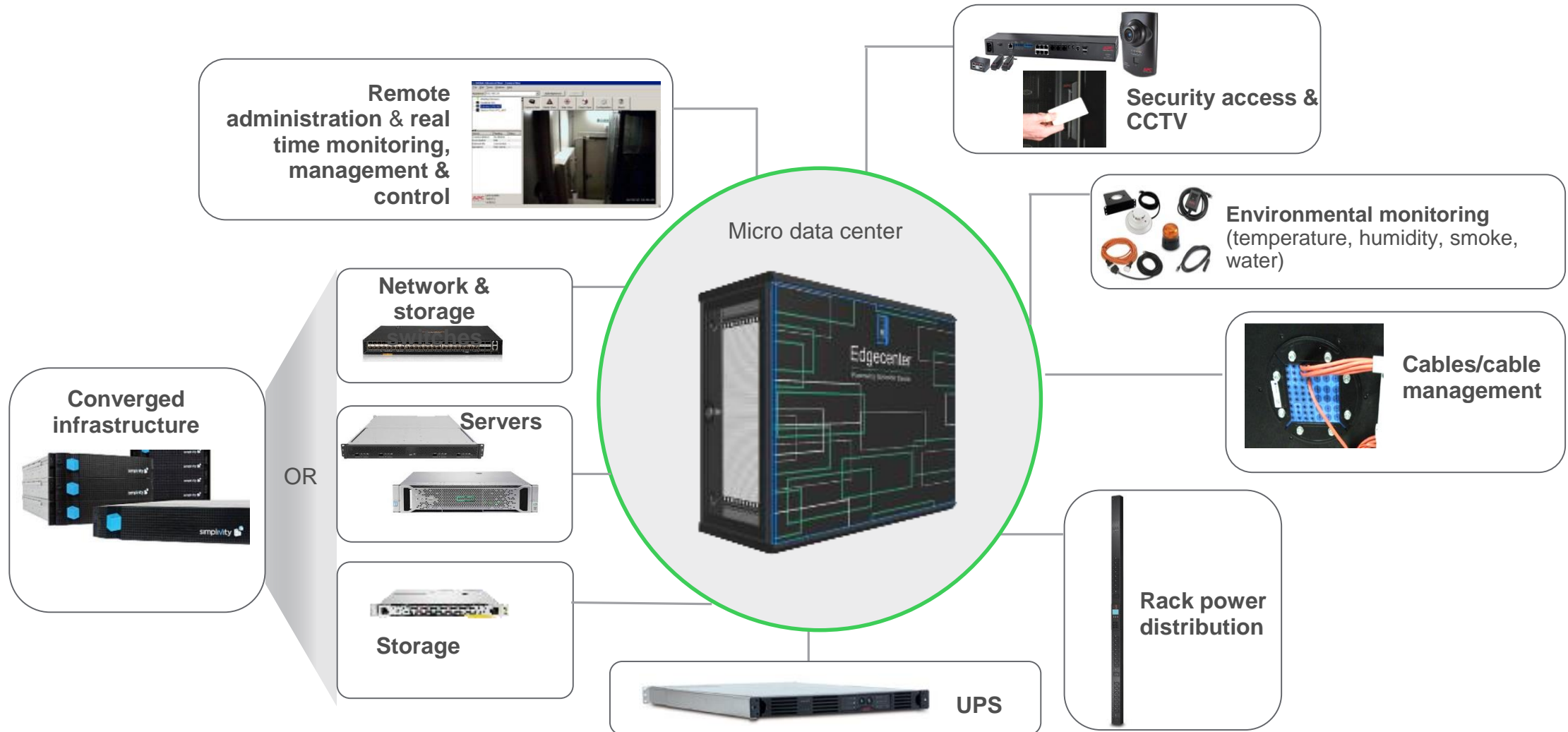


1 An integrated ecosystem

2 Management tools

3 Analytics & AI to augment staff

Fully integrated micro data center



Cloud-based Management Tools improve Visibility



The biggest challenge is keeping everything good (normal operating status) because it's not just monitoring the alarm, the alerts, etc., it's resolving them.

Customer – 451 Research, 2017



Easy to
get started



Access from
anywhere,
at anytime



Pay as
you grow



Maintenance
free



Up-to-date
cyber security



Automatic
software updates
and backup



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We believe there are the 4 key ingredients

1

A secure, scalable,
robust **cloud
architecture**

2

A **data lake**
with massive
amounts of
normalized data

3

A talent pool of
**subject matter
experts** with deep
knowledge of
system behavior

4

Access to
machine learning
algorithm
expertise

Key Takeaways: Edge Visibility & Transparency

- Remote Management and Control is essential to providing a cost-effective edge solution
- Cloud based solutions will increase visibility and reduce complexity
- Advanced Analytics and Artificial Intelligence will reduce cost and risk

THE IMPACT OF 5G: THE LAST MILE DOESN'T NEED A WIRE TO BE IN THE FAST LANE

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Q & A