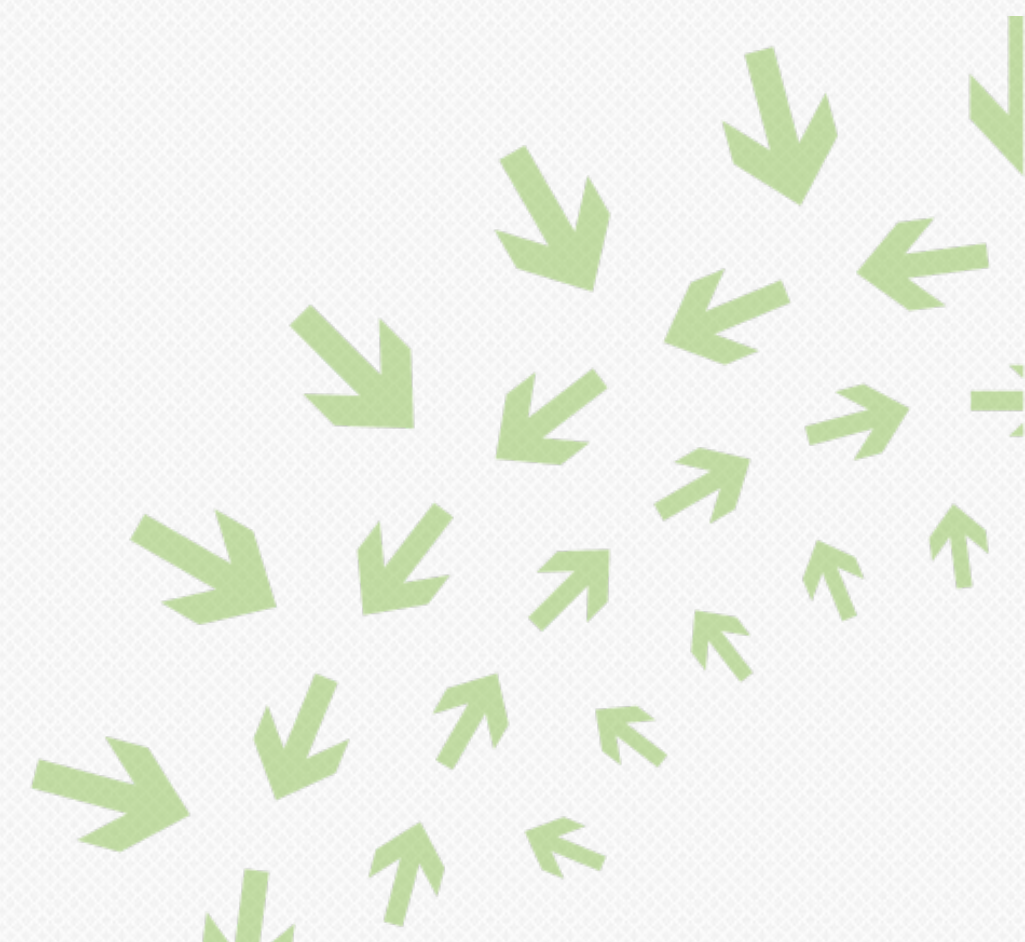




Corey Bell

CEO Open Compute Project



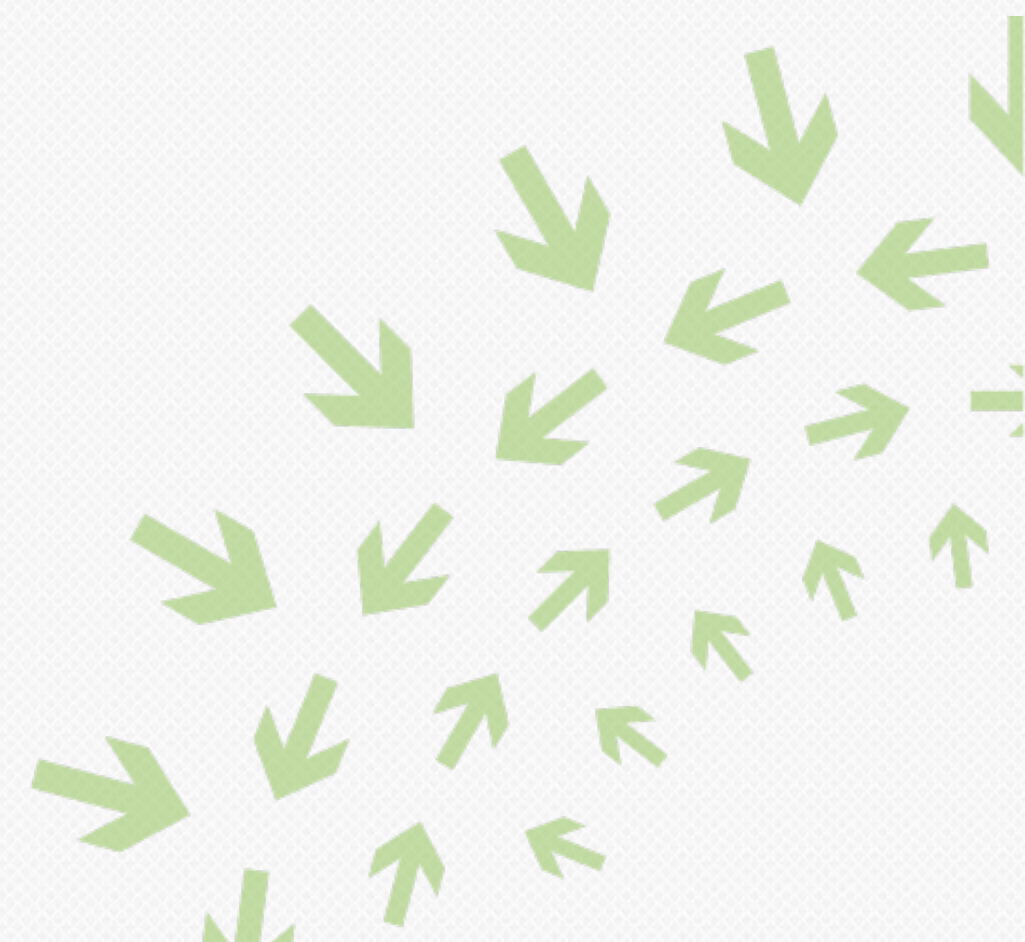


Microsoft and OCP

What a Year!

Kushagra Vaid

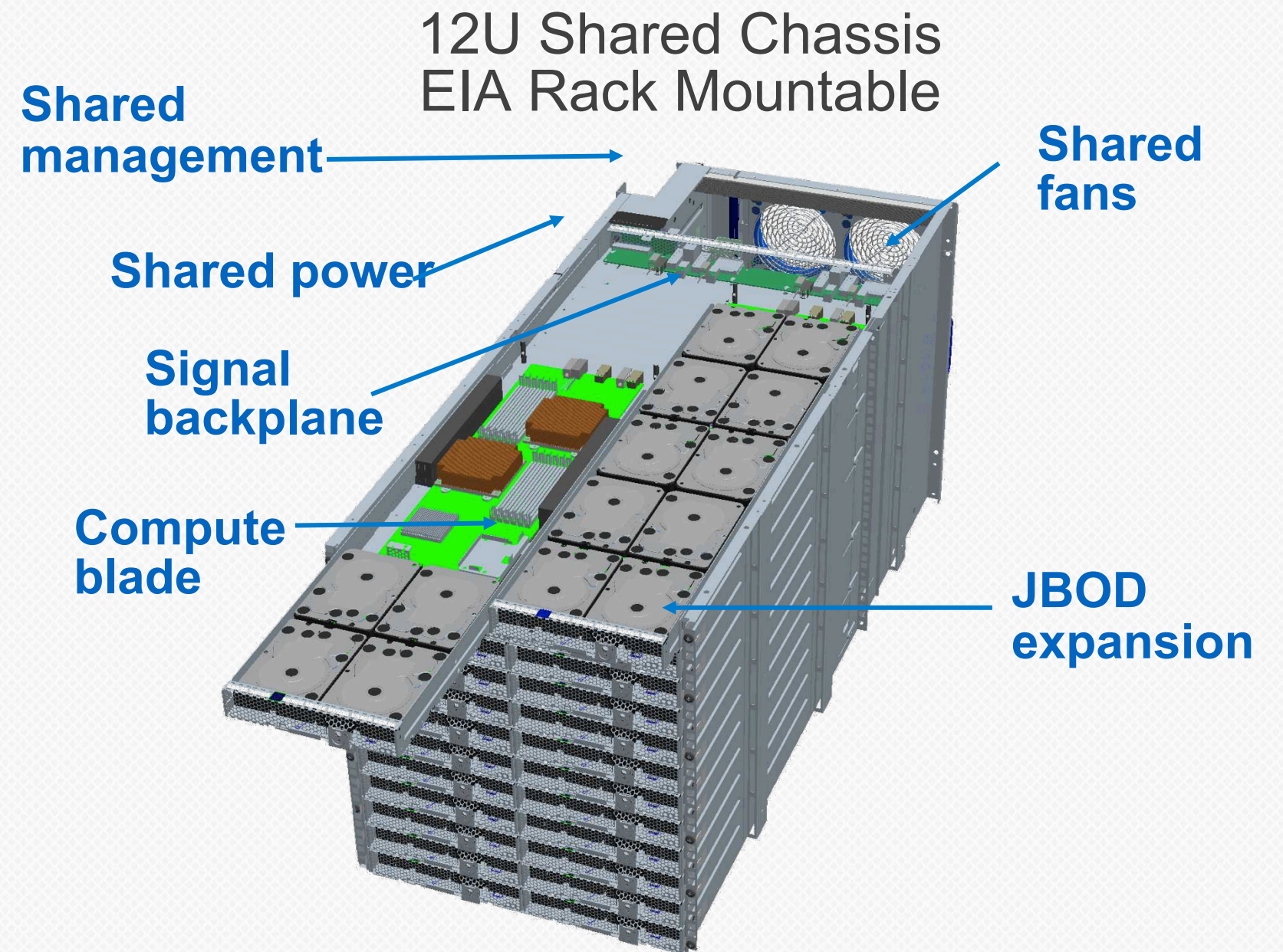
General Manager, Cloud and Enterprise Group
Microsoft Corporation



Looking Back...

January

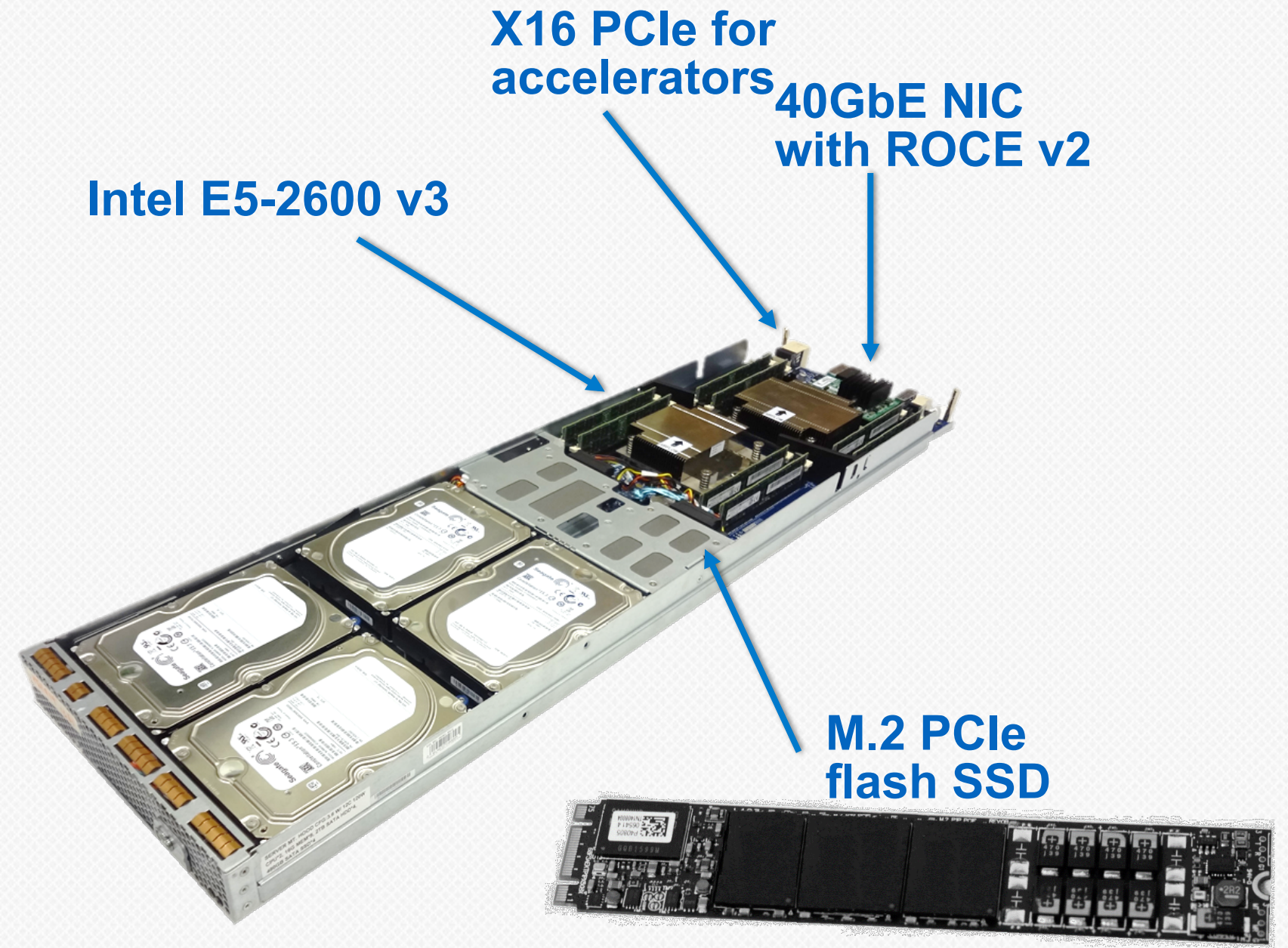
Microsoft joined OCP and contributed the Open CloudServer specification (OCS)



Looking Back...

October

Microsoft
contributed Open
CloudServer v2
specification



OCS powers Microsoft's cloud-scale datacenters

*Diverse
cloud
services*

*Global
datacenter
operating
environment
s*



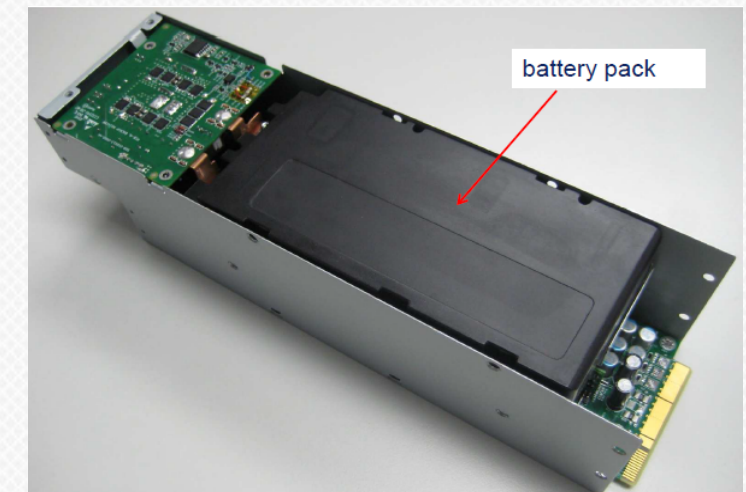
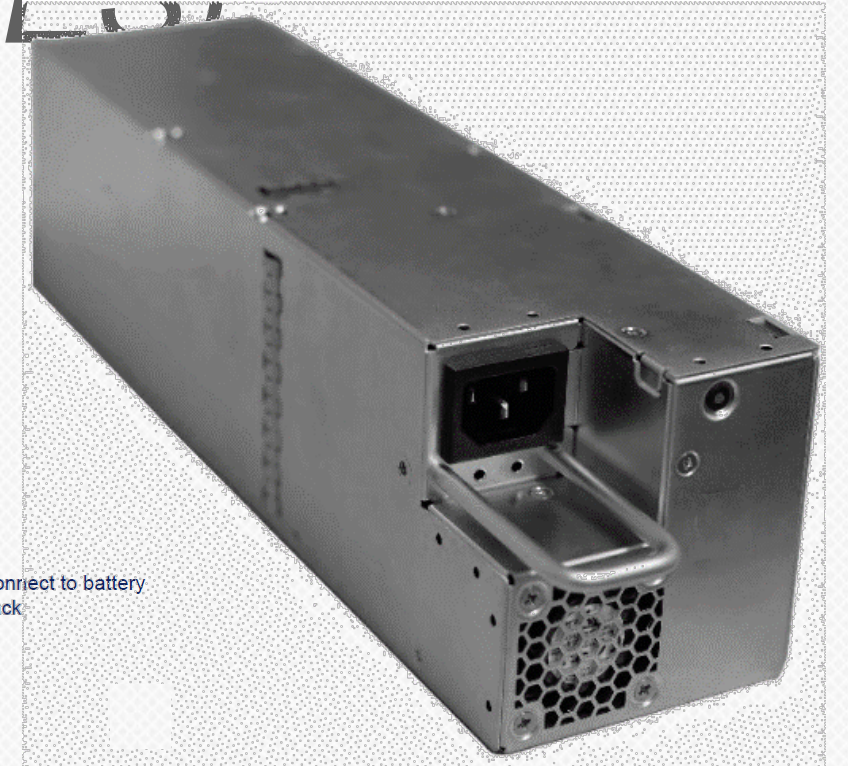
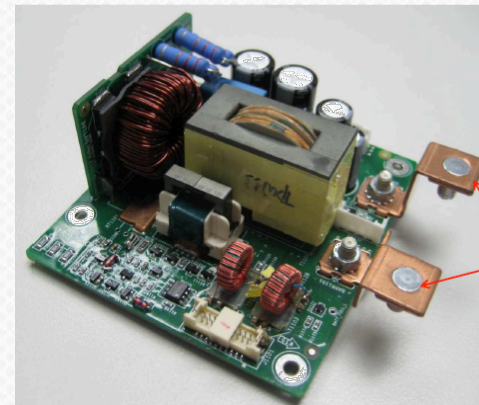
Microsoft Azure



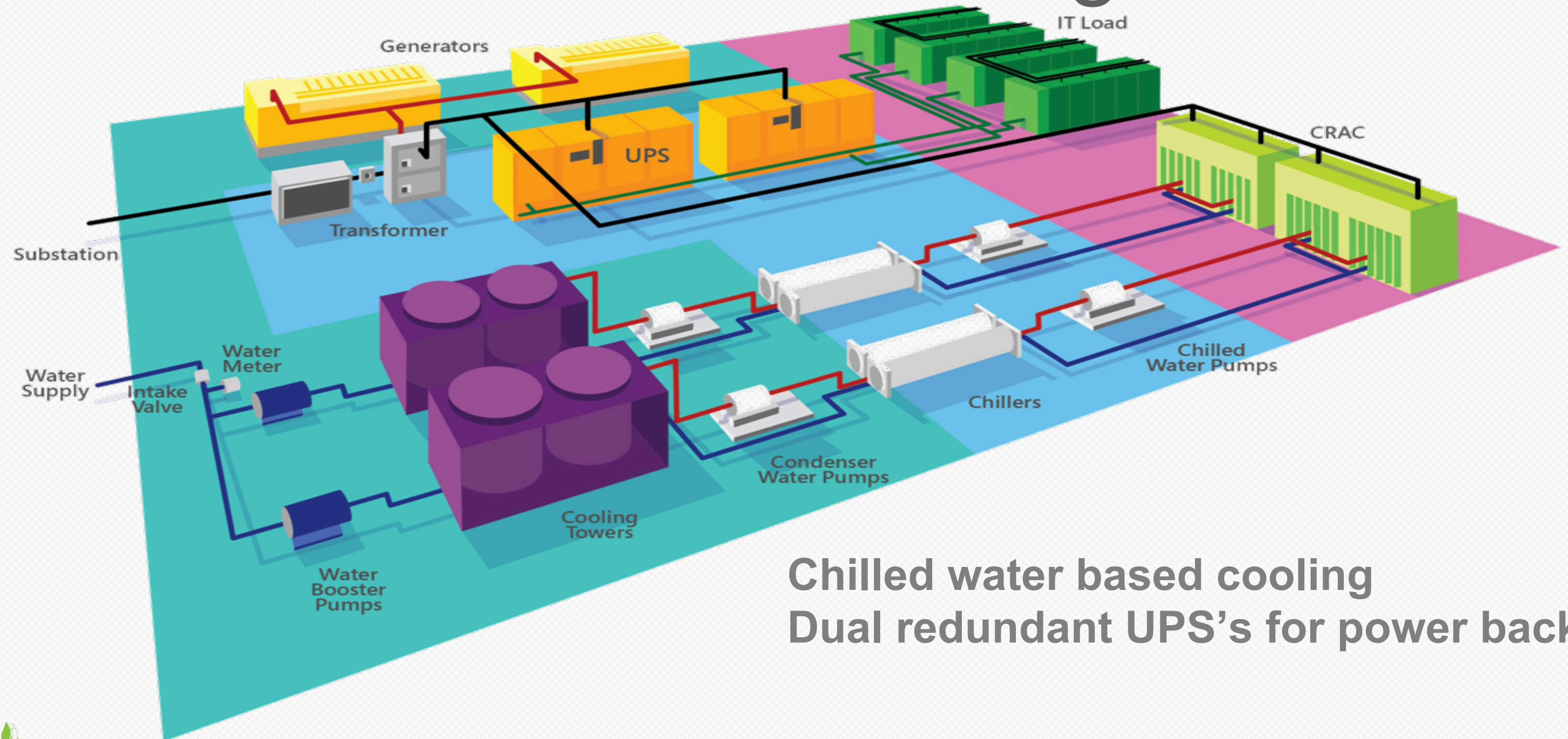
TODAY: Hardware Innovation

~~Introducing~~ Local Energy Storage (LES)

- Reinvent datacenter architecture via distributed battery design – eliminate large UPS rooms!
- Batteries fully integrated into server chassis power supplies
- Fully OCS v2 compatible
- All design and manufacturing collateral being contributed to OCP



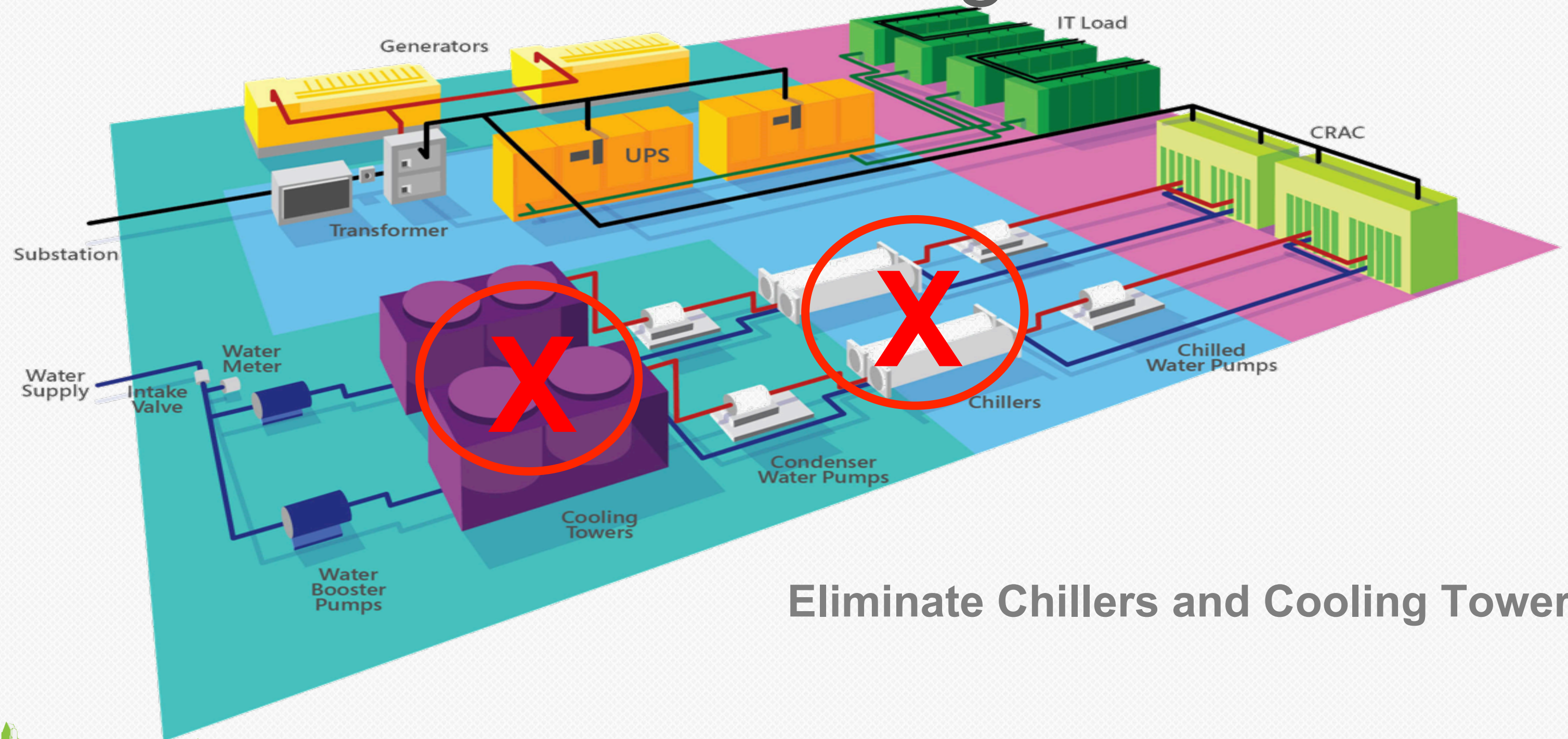
Traditional Datacenter Design



Chilled water based cooling
Dual redundant UPS's for power backup



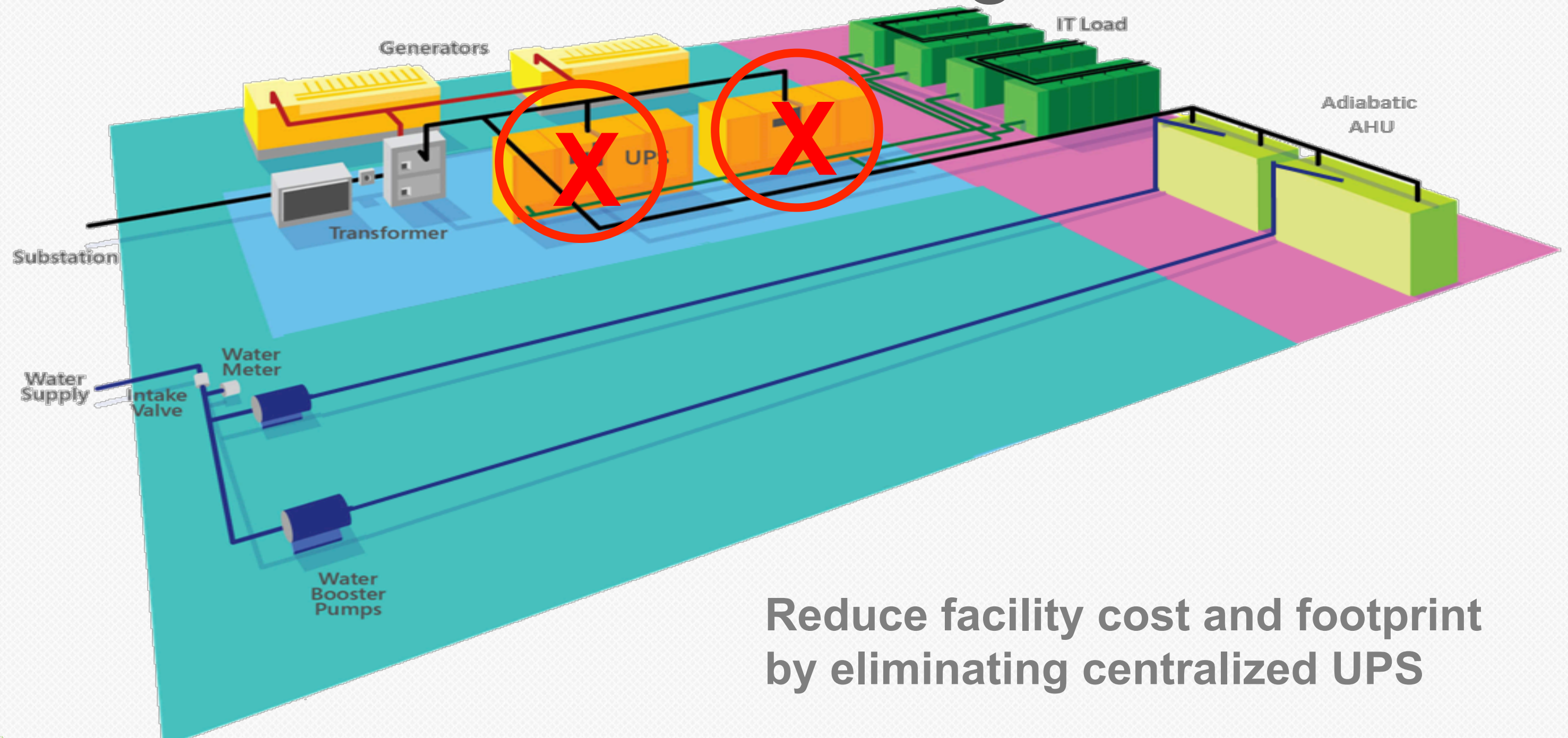
Modern Datacenter Design



Eliminate Chillers and Cooling Towers



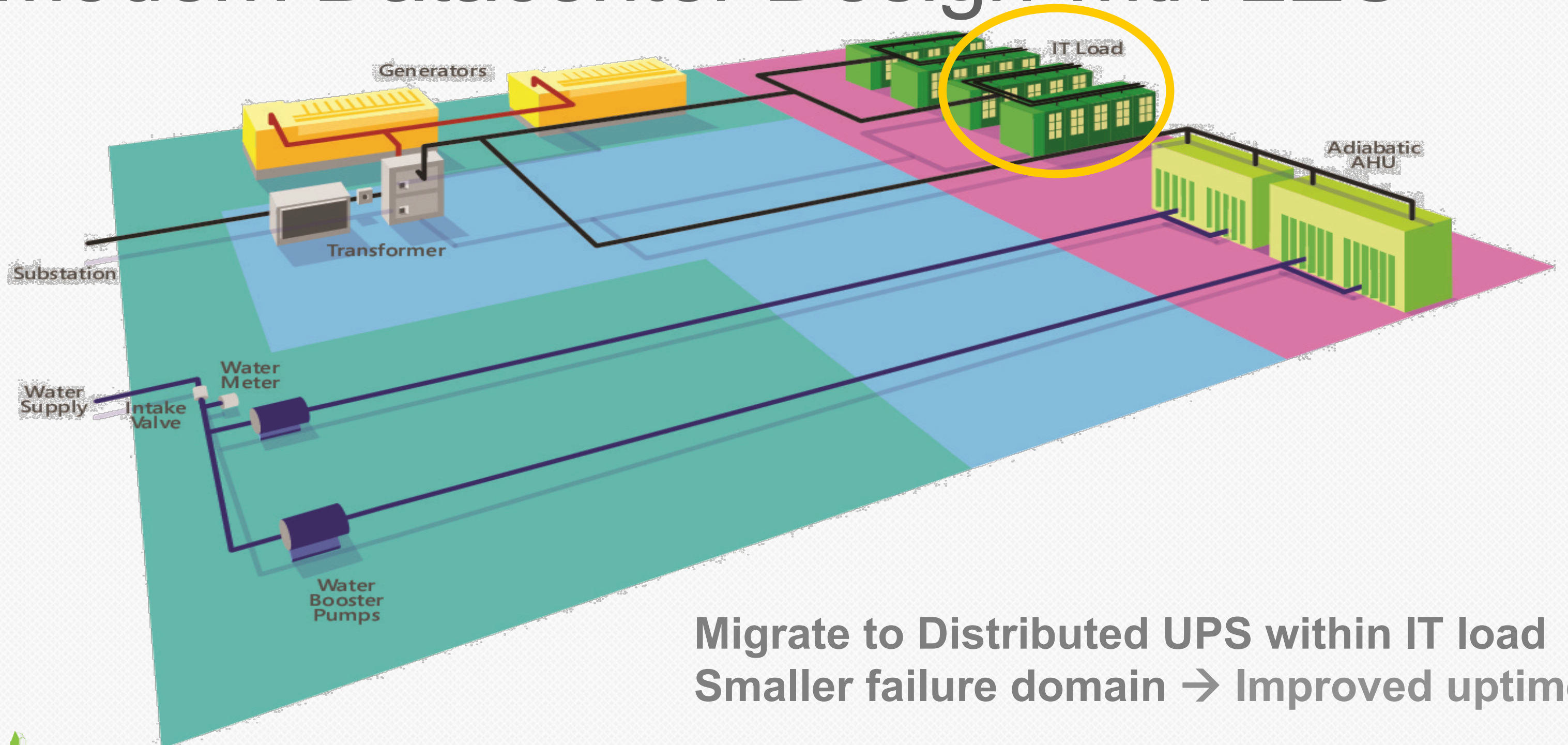
Modern Datacenter Design



Reduce facility cost and footprint
by eliminating centralized UPS



Modern Datacenter Design with LES

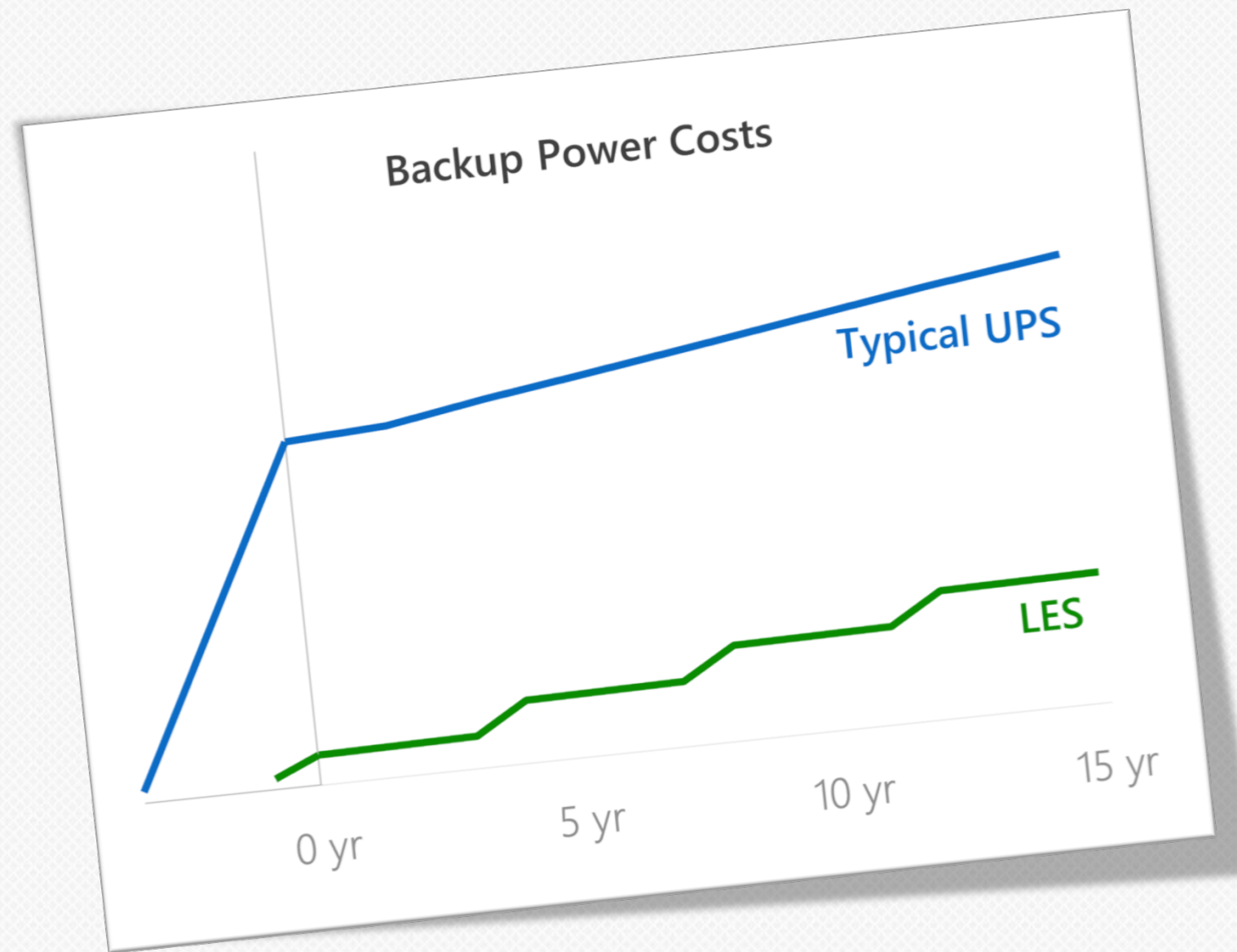


Migrate to Distributed UPS within IT load
Smaller failure domain → Improved uptime



LES advantages

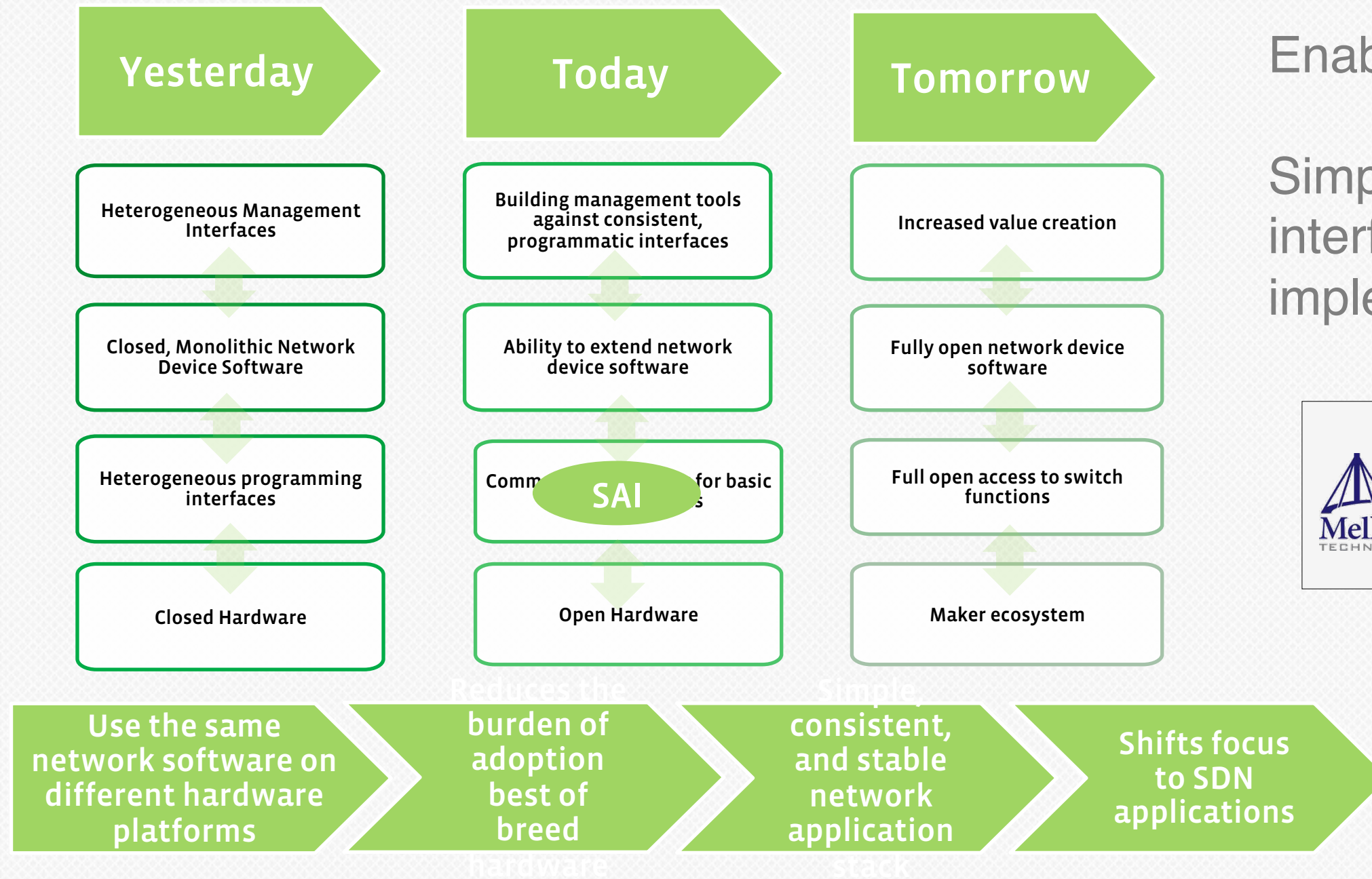
Distributed UPS built with commodity Li-ion battery cells



- Reduces UPS capex up to 5x
- Improves PUE up to 15%
- Cuts facility footprint by 25%
- Pay-as-you-go for UPS capacity
- Smaller failure domains for improved hardware availability
- UPS monitoring/controls integrated with IT management



Switch Abstraction Interface (SAI)



Enabling an open switch ecosystem

Simple, consistent programming interfaces for common functions implemented by networking ASICs



Canonical and Microsoft Partnership

Canonical *Metal-as-a-Service* (MaaS)
and Juju now enabled on OCS blades

One-touch bare metal OS provisioning
(Windows, Ubuntu, CentOS, SUSE, ...)
and application stack management

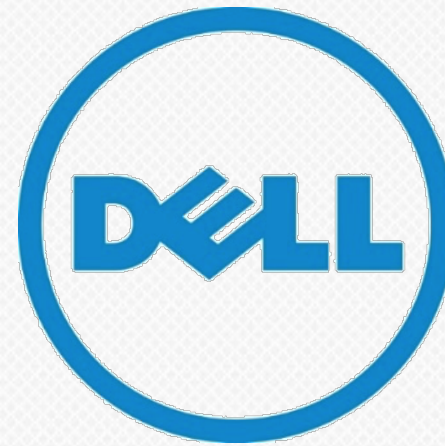
First ever solution for enabling automated
workload deployments on OCP hardware



OCS community and industry adoption

Solutions

Quanta
wiwynn

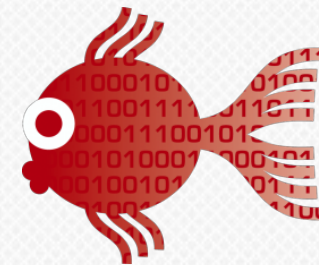


STACK
VELOCITY

Software



Standard



**Redfish
Specification**



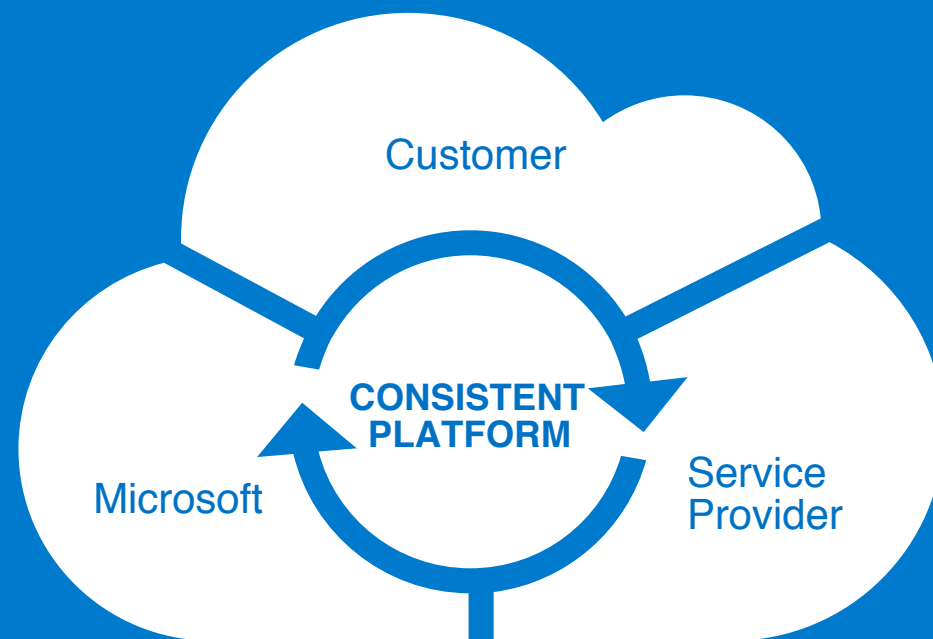
**Switch Abstraction
Interface (SAI)**



Microsoft vision for a new era

Cloud Platform

Unified platform
for modern business



- One consistent platform
- Common technologies across clouds
- Workload mobility



Learn more

Visit Microsoft booth

- OCS v2 and LES on display
- Canonical MaaS/Juju Demo
- Redfish Demo
- Operations Toolkit Demo
- OCS v2 SSD Demo

Attend executive track session:

- Growing OCS Ecosystem and Choice, 12:40PM

Attend technical workshops

