



Trends and Technology for the Datacentre

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Whether It's A Building Or A Data Center,
**The Enterprise Infrastructure
Is A Living, Breathing Entity,**
Constantly Changing and Evolving...



How do you make the choices?



- Driven by need to **UNDERSTAND** how resources are being used
- Management of:
 - Assets
 - Space
 - Connectivity
 - Power and Cooling
 - OPEX
- Capacity Planning and Demand Management

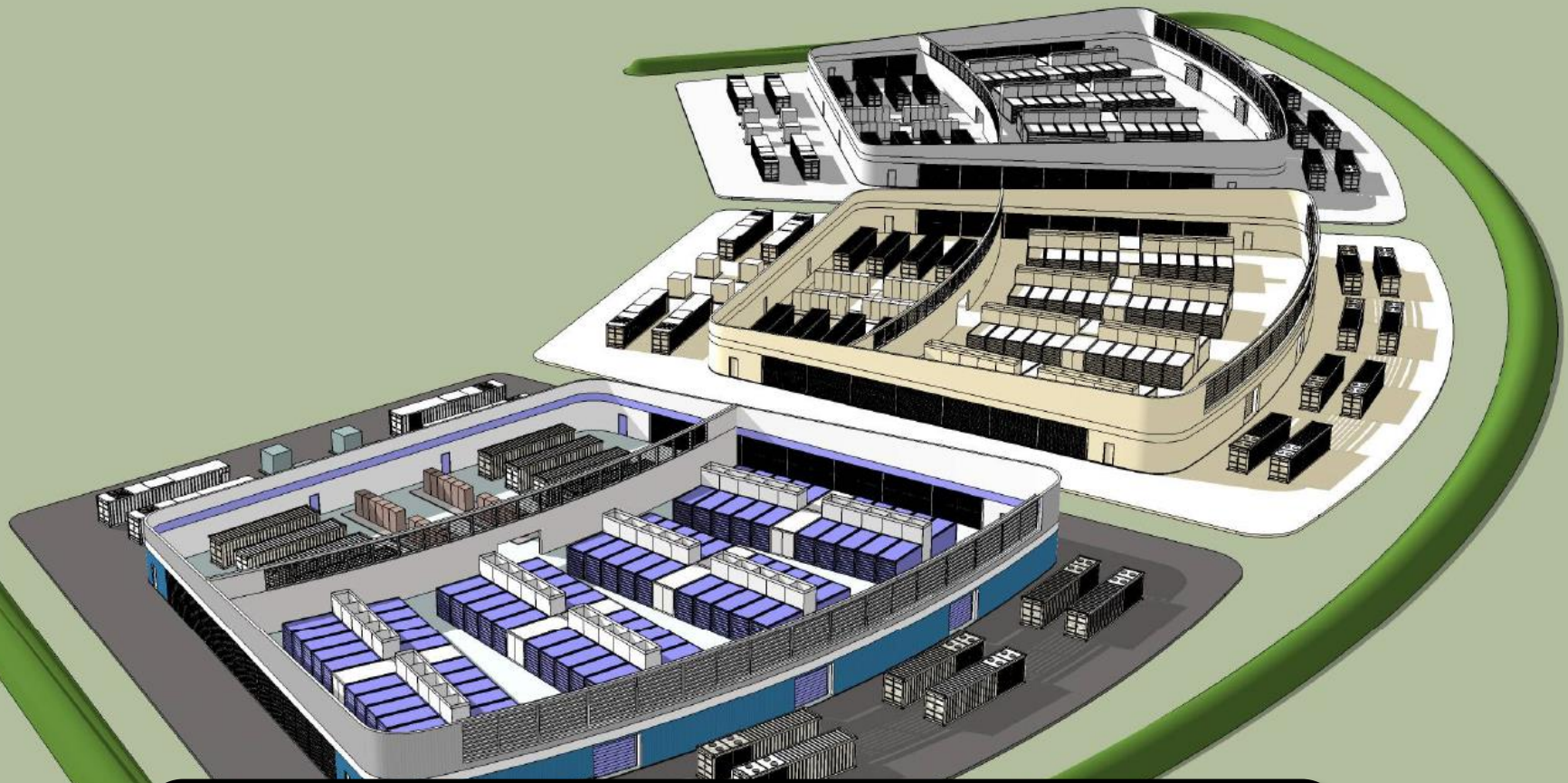
- Adapting to constant change: new applications and technologies
- Bandwidth growing at 50% per year
- Operating within budget limits

Solutions:

- **Modular Data Centre**
- **DCIM (Data Centre Infrastructure Management)**

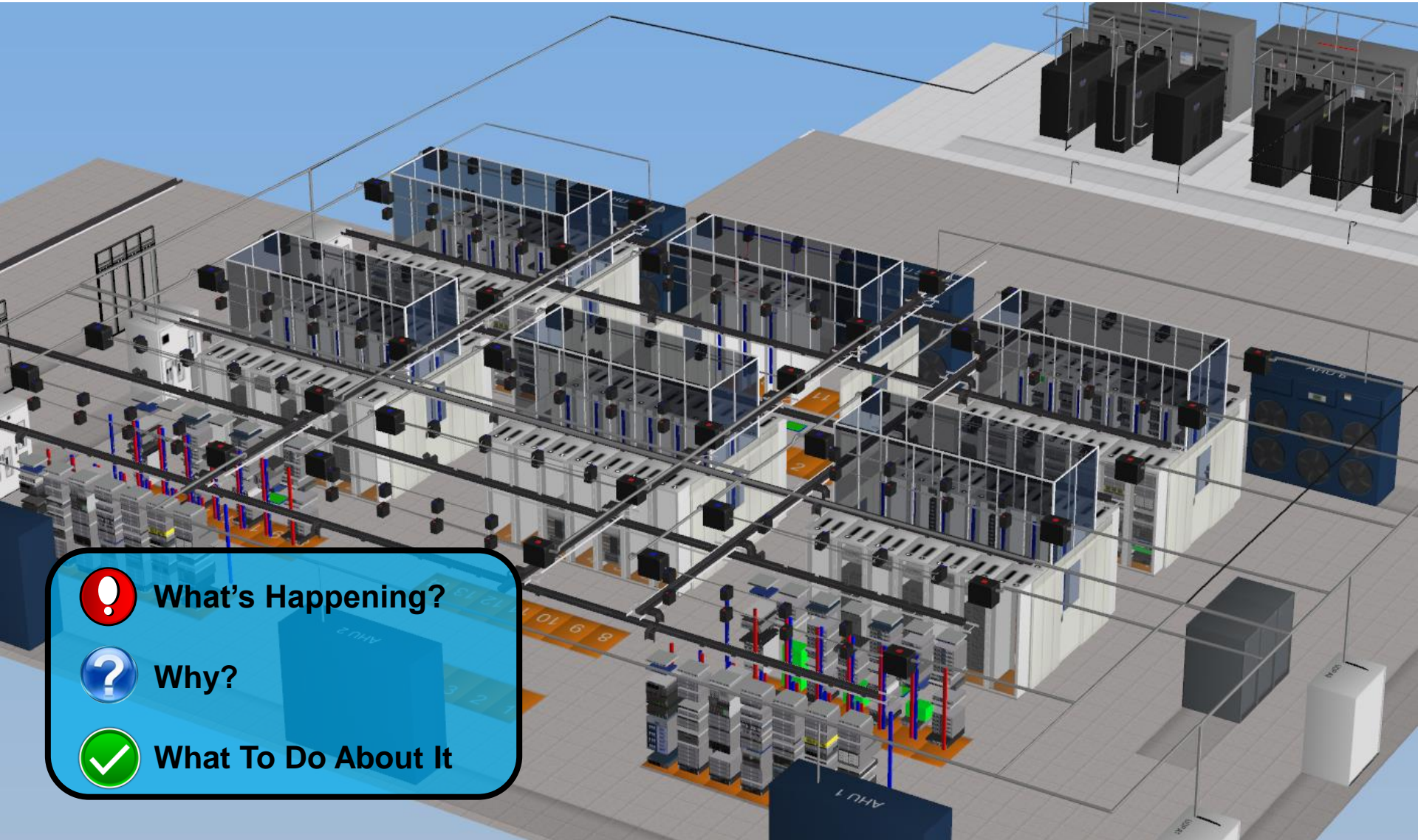
Modular Data Center: Productivity on demand

COMMSCOPE®



Purpose-Built Data Centers:
Combining the **Flexibility** of Traditional
with the **Time-to-Value** of Modular

DCIM: Single Reality for IT and Facilities



 **What's Happening?**

 **Why?**

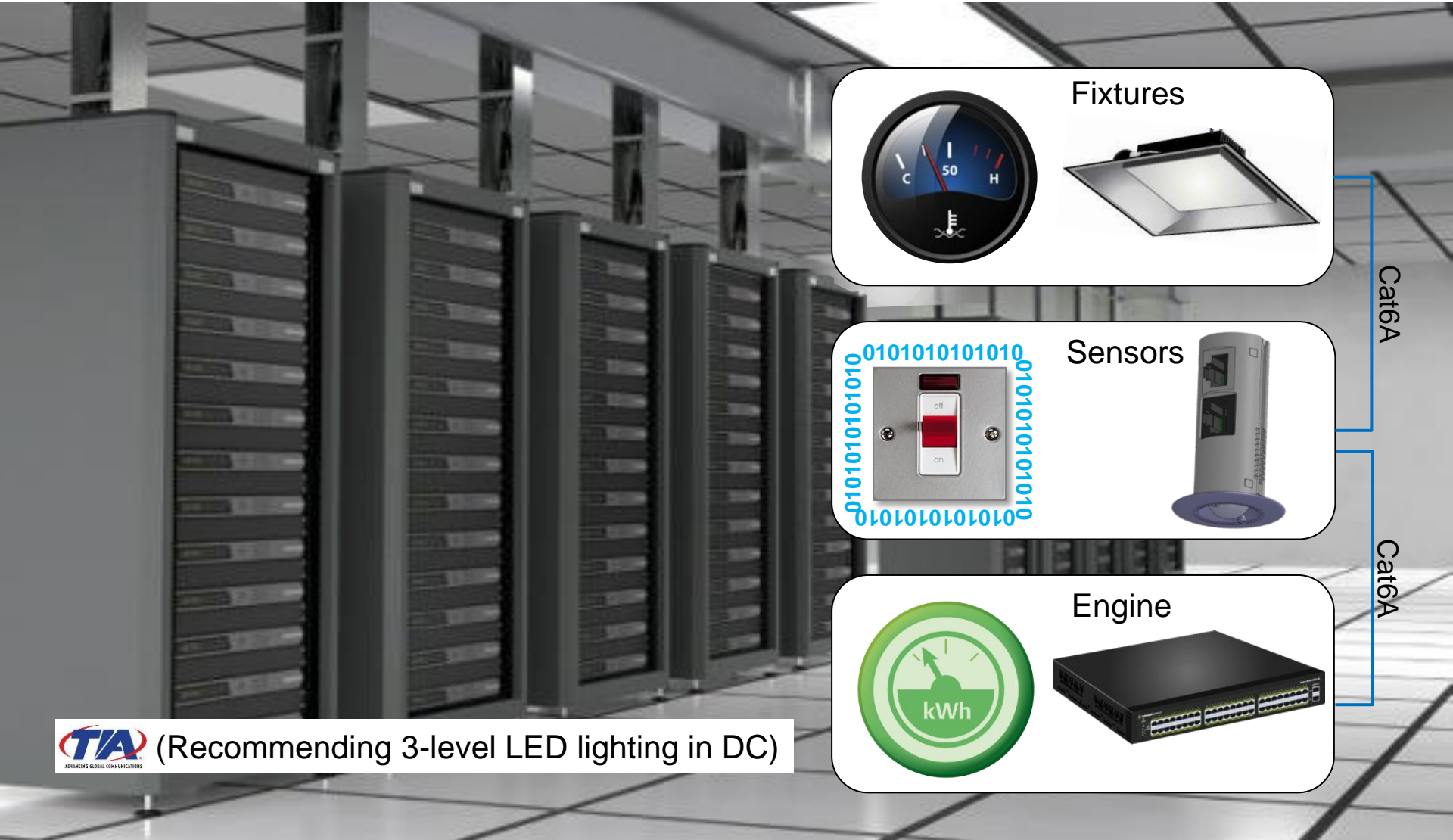
 **What To Do About It**

- Forecast: Increasing **Power Usage**
- Ongoing pressure to **MAXIMIZE POWER EFFICIENCY (PUE)** without jeopardizing uptime

Solutions:

- **DCIM**
- **Intelligent Lighting**

Intelligent Lighting in the DC



Fixtures



Sensors



Engine



Cat6A

Cat6A

 (Recommending 3-level LED lighting in DC)

Infrastructure must support....

- Demand to continue to grow at 20% per year
- Connection rates continue to increase
- High bandwidth connectivity requirements



Bandwidth



Scalability



Density



Manageability

Solutions:

- **Pre-Terminated Connectivity**
- **AIM (Automated Infrastructure Management)**

Pre-Terminated Cabling Scalability and Ease Of Installation

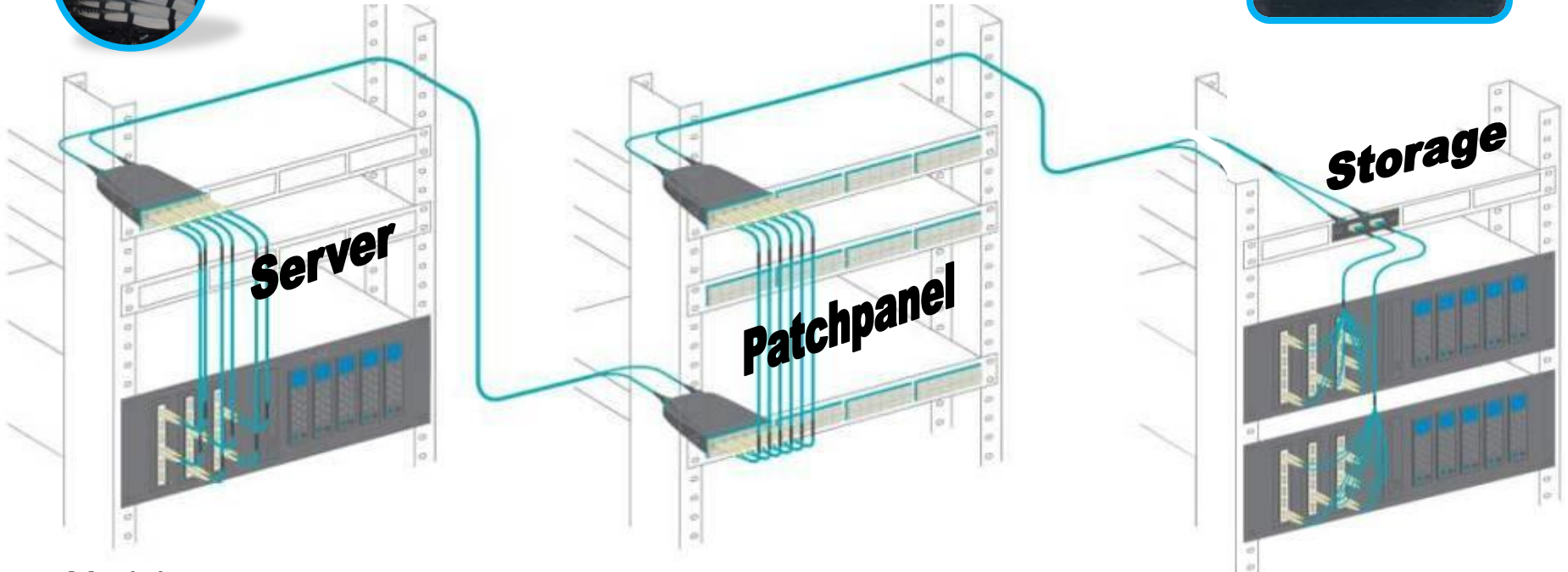


- **Installation Time Dramatically Reduced**
- Typical pre-term copper install is eight times faster than field term
- Reduces deployment risk
- “Phase II” install much less disruptive
- Highly Adaptable Topology
- The pathway to next-level bandwidth needs (40/100G)

High Density Pre-Terminated Fibre Solution



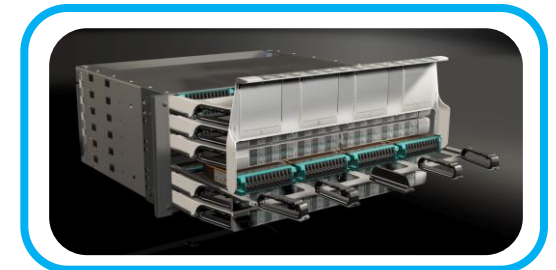
Modular Pre-Terminated system significantly reduces installation time in the Data Centre



Modules

Cable Assemblies

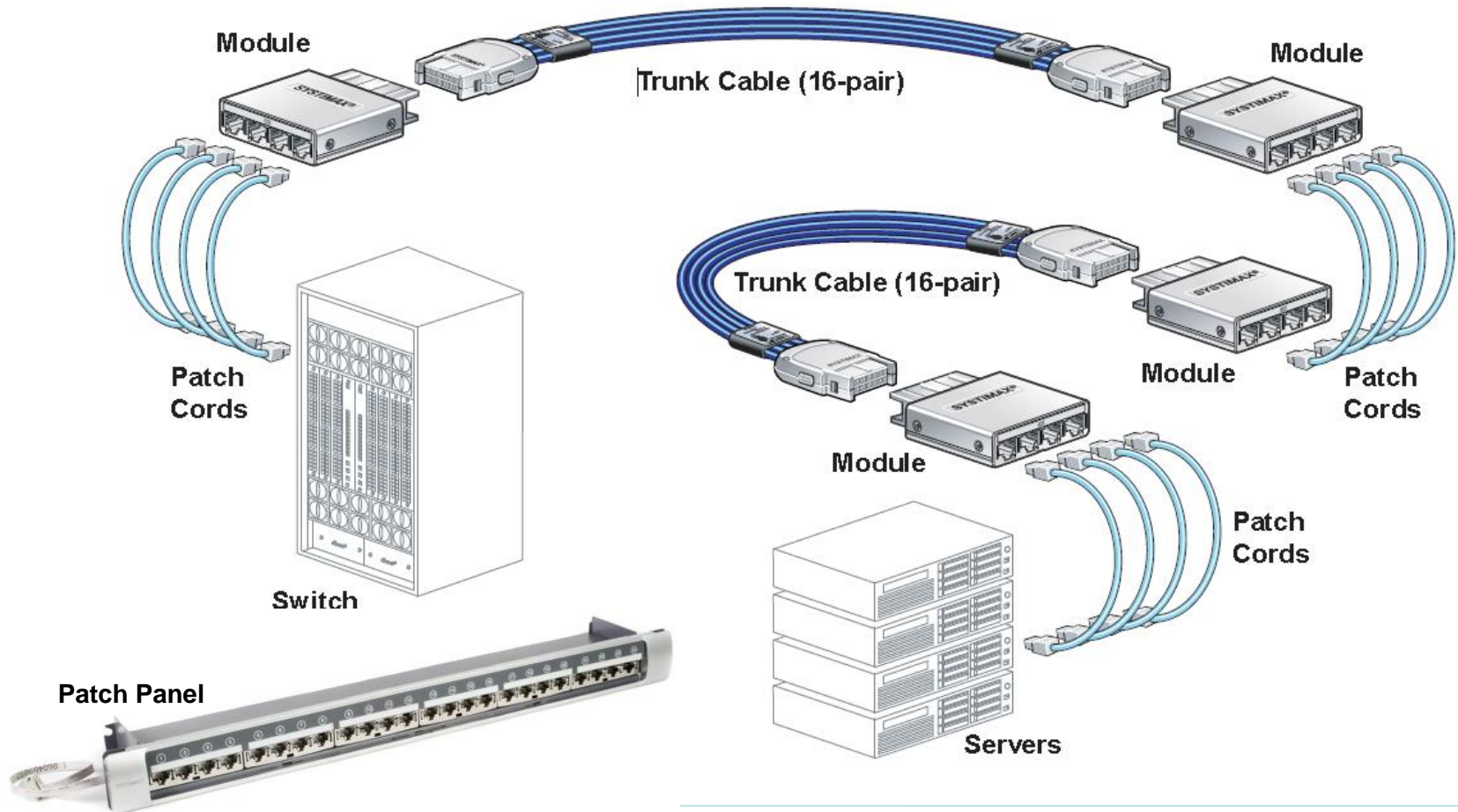
Shelves

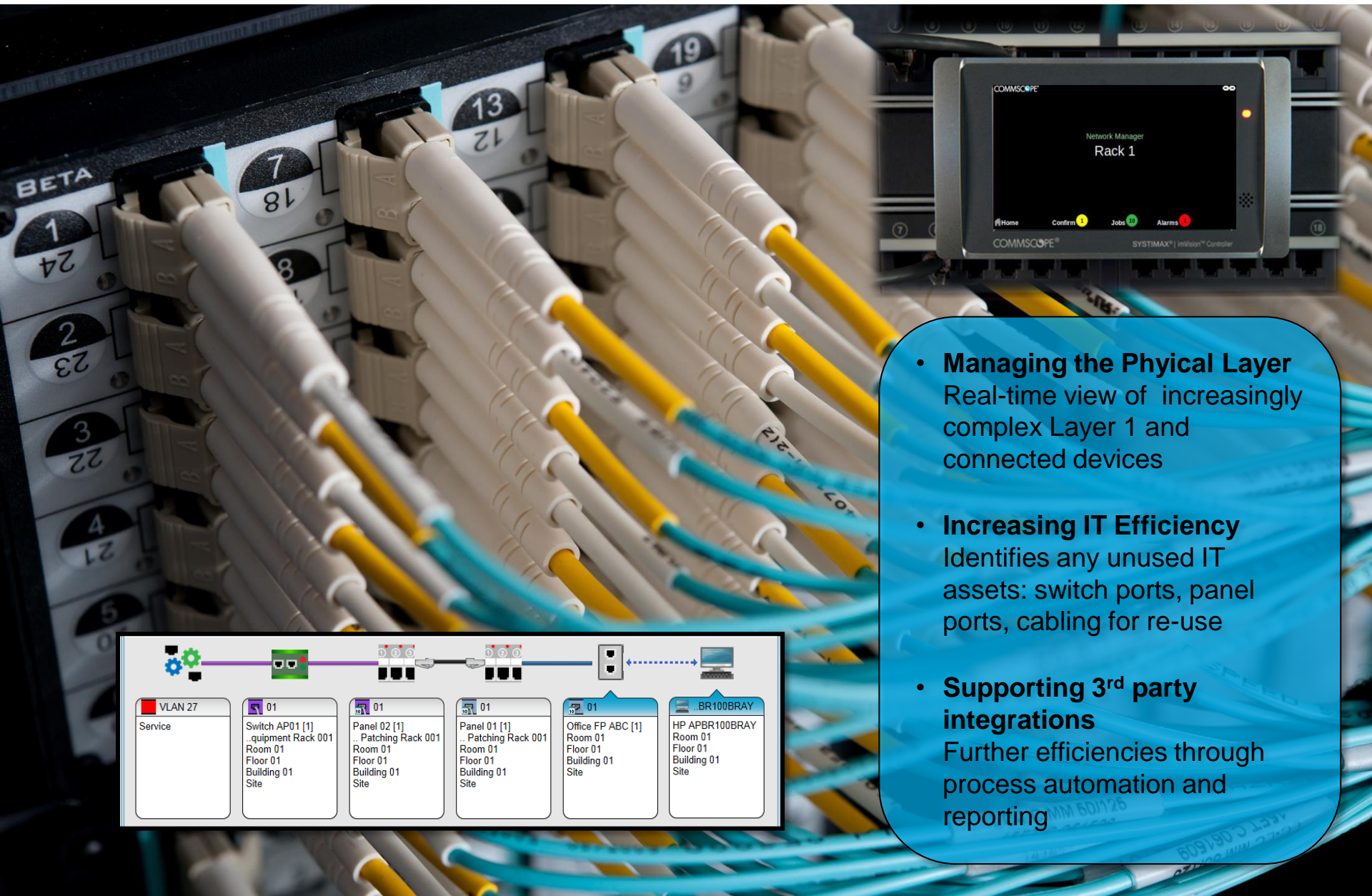


Rapid-deployment Pre-Terminated Copper Solution

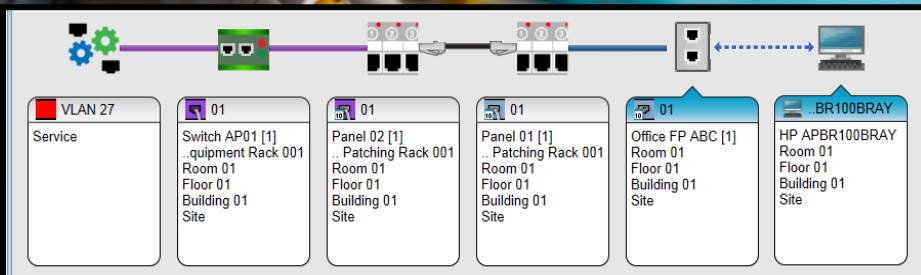


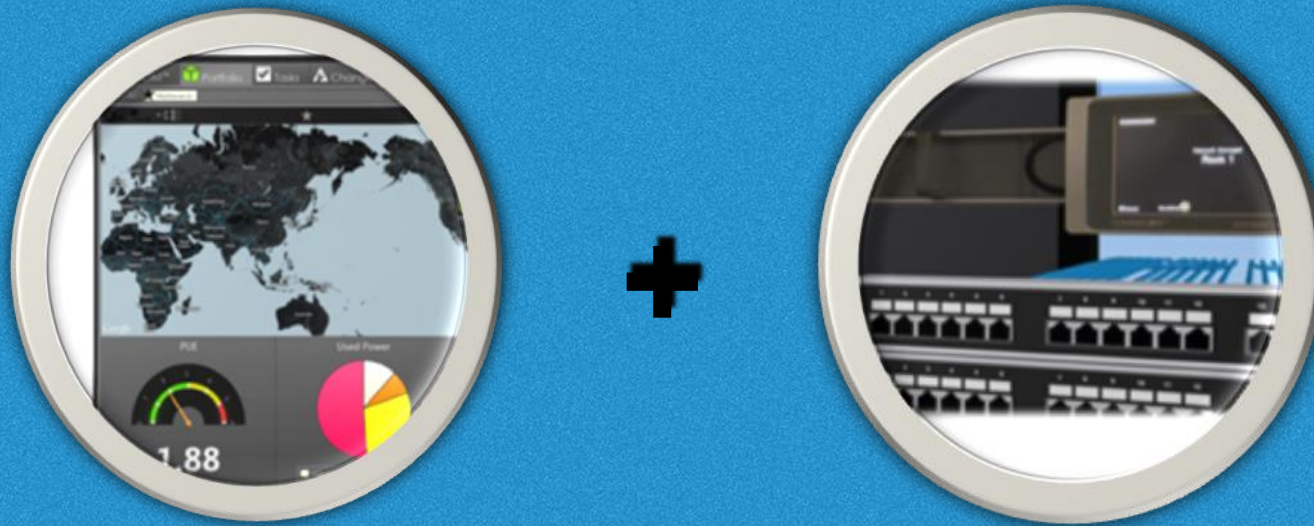
Modular Pre-Terminated system significantly reduces installation time in the Data Centre





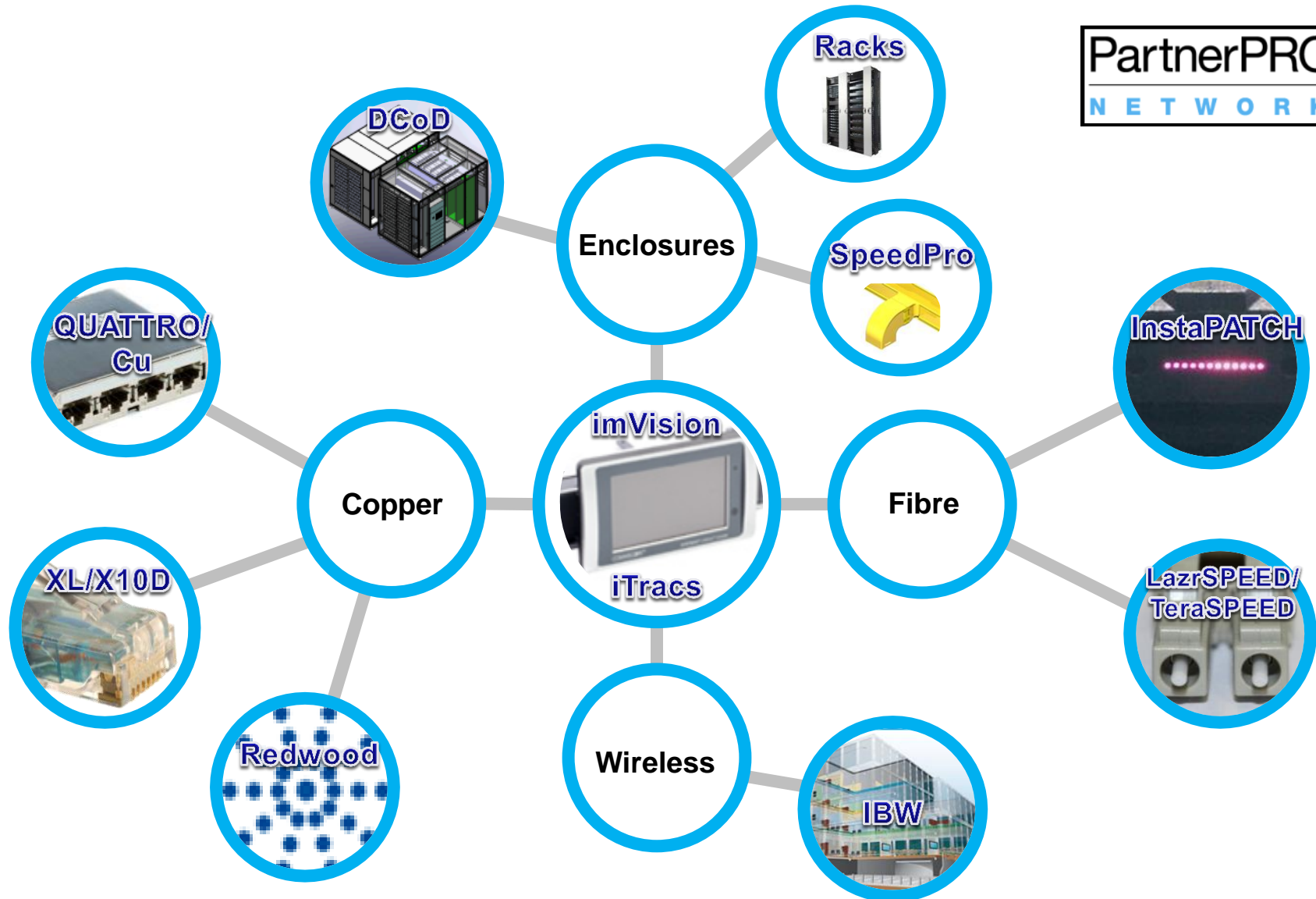
- **Managing the Physical Layer**
Real-time view of increasingly complex Layer 1 and connected devices
- **Increasing IT Efficiency**
Identifies any unused IT assets: switch ports, panel ports, cabling for re-use
- **Supporting 3rd party integrations**
Further efficiencies through process automation and reporting





Comprehensive management of the entire facility utilising the real-time visibility at the physical layer.

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- A low-angle, upward-looking photograph of a modern skyscraper with a glass facade, set against a clear blue sky. The building's grid of windows and dark structural lines creates a strong sense of verticality and perspective.
- Data Center Infrastructure Management
 - Intelligent Building Performance Lighting Platform
 - Modular Data Center
 - Intelligent Infrastructure Management
 - In-Building Wireless
 - Rapid deployment high-speed connectivity
 - Structured Cabling



Thank You

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