

EAUC Annual Conference University of Leeds 23 – 25 March 2015

CHALLENGING CONNECTIONS

incorporating the Student Sustainability Summit, Further Education Sustainability Summit and Transformational Leadership Summit

Exchange B5: Data Centre Space

John Thompson, CDCDP, Advanced Power
Technology Ltd

Conference Sponsor





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CHALLENGING CONNECTIONS

Data Centre Space

Considering new possibilities
Or

A Data Centre in Space

It's not rocket science



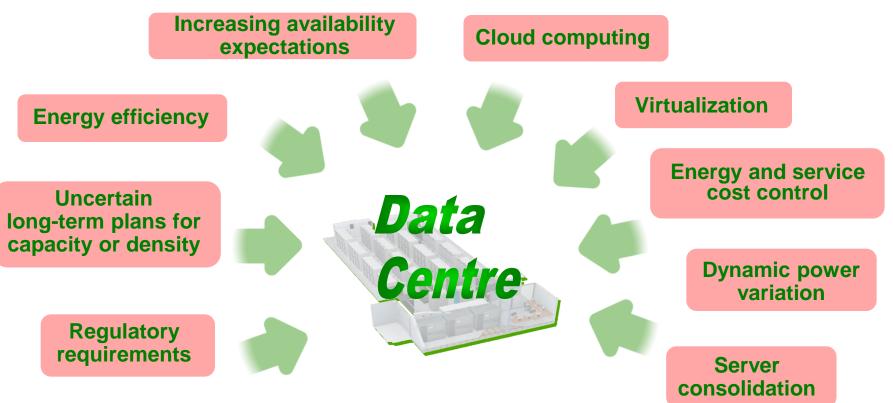


Increasing Pressure

... on data centre planning and operation







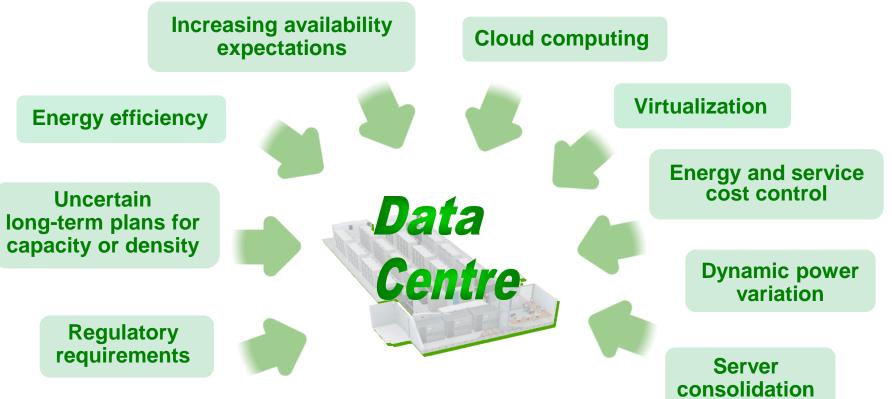
In response ...

Providers are continuing to improve new ways to plan, design, install, manage, and maintain data centers

... for data centre planning and operation







because...

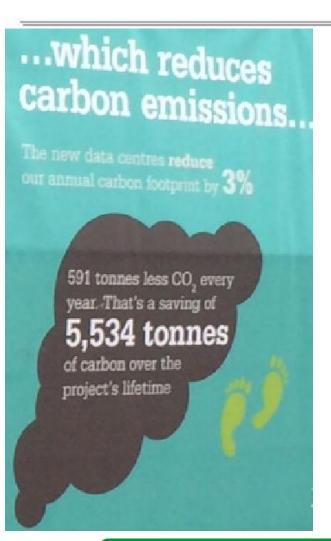
Increased funding opportunities, higher priority to business, dynamic technology advances, new field of expertise

Size of the Opportunity

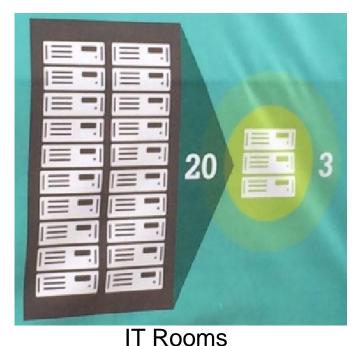
A case study - MMU All Saints Data Centre







- 50% Efficiency Gains
- Release of space



£417,817

us money

Considering the Opportunity

... where to start?





Data Centre Space

Space is one of the first things that will need to be considered when faced with the challenge of improving the IT facility.

Location options may be one or more of the following;

- New build
- Outsourcing to a hosting company
- Upgrading existing to a more power and space efficient solution (live)
 Thermal containment / Upgrade to more efficient components / Virtualisation, etc.
- Finding a new space within the estate for a more power and space efficient solution (migrate) – prefabricated?
 Virtualisation / integral or independent of building infrastructure / risk mitigation

Who will decide?...



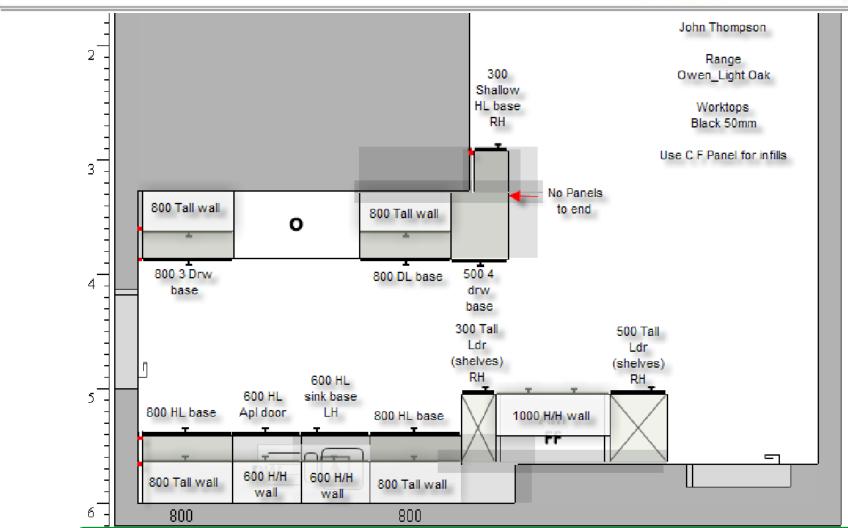
Feasability study? Consultants? In-house knowledge and expertise?

Planning Tools

... tried and tested







Walk Round

Visualising possibilities







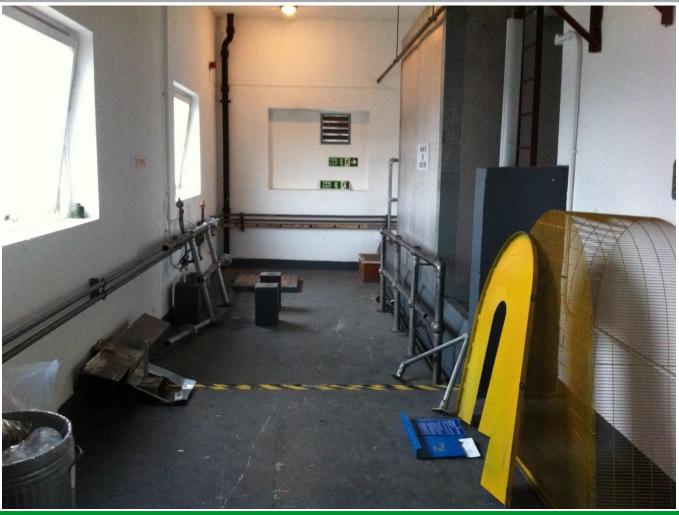


Quick Decisions

... saving time and money







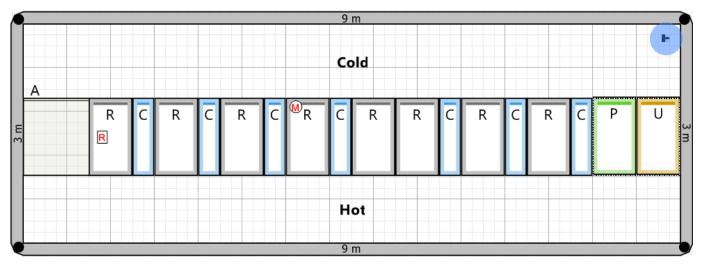
> Seeing the potential

Maximising Potential

... products to solutions









P = Service Bypass and PDU
U = UPS
R = Rack
C = In Row Cooling Unit
M&R = Central Management System & NetBotz

= Camera
A = row references

Not to scale:
600mm x 600mm grid

Quick and easy speculative designs

... for data centre planning and operation





because...



... for data centre planning and operation





because...



... for data centre planning and operation





because...



Challenging Connections



