

Case Study

Imperial College London

Imperial is a global top 10 university with a world-class reputation in science, engineering, business and medicine.

Challenges

Imperial College London was faced with two core IT challenges. Underpinning all IT functions is the need to provide highly resilient and totally secure environments for the College's critical research and administration systems.

In addition to this, it was identified that there was an urgent need to recover valuable teaching and research space on the College's primary South Kensington Campus, which was at this time housing space-consuming IT infrastructure.

Much of Imperial's IT deployment within the colocation environment is made up of High-Performance Computing (HPC). It is vital that the hot-aisle containment is structured in the most optimal way to achieve maximum efficiency and reduce strain on the IT infrastructure of the College.

Kinetic IT's solutions

To create a totally secure environment for the College's IT infrastructure, Kinetic designed and built a bespoke caged installation, complete with full Radio-Frequency-Identification (RFID) based access control. This ensured that whilst all necessary Imperial staff may be granted access where required, the infrastructure is also kept completely protected while allowing for air-flow.

By moving across the physical assets involved in their data centre, Imperial were able to free up incredibly valuable space in their South Kensington Campus. This allowed for key teaching, research and other core business functions to expand into that existing space.

Kinetic's specialist design service also meant that the College were able to realise their strategy of deploying high-density, hot-aisle rack containment solutions which are easily able to support loads of anywhere between 3kW to 30kW per rack, all as required. This allows the College to achieve the best in both cost and environmental efficiencies.

Why Kinetic IT

- [Cabling Infrastructure Services](#)
- [Containment Systems](#)
- [Design Consultation & Project Management](#)
- [Managed Services & Infrastructure Support](#)
- [Infrastructure & Asset Management](#)
- [Wireless Network Solutions](#)

"The Data Centre transformation programme has been paramount for Imperial College to safeguard its assets and provide for highly available services to its customers, with particular emphasis on Research and Education.

The programme has been run in multiple phases, taking core ICT services to the VIRTUS Data Centres first and subsequently Research Compute Services (including HPC) and subsequently departmental services.

A key aim has also been to free up valuable space within the South Kensington real estate - this has been achieved.

Not only has it been essential for the Data Centre migrations to

be managed with rigour but that the environment within the Data Centre is provided with world class quality. The physical build provided by Kinetic IT has been of very high quality, the relationship has been strong and the result is something we are truly proud of.

I have led on many Data Centre transformation programmes in different guises and can honestly say that the quality of workmanship delivered here is world class - I have been approached by many to understand how we have achieved this - having a great partner is key."

Paul Jennings, Head of ICT Operations and Programme Sponsor

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