The Digital Led University and the transformed, Digital Led Campus

- An Advisory Services PoV

CGI

Higher education is at a cross-road of change. Learning opportunities, both on campus and online, have accelerated the growth of the Digital Led University, thus revealing a multitude of opportunities for developing the inclusive, dynamic and safe Digital Led Campus. This, together with the need to adapt to meet sustainable funding requirements, requires innovative approaches to support the necessary growth in digital skills and infrastructure across the campus.

The Digital Led Campus

Our Digital Led Campus advisory solutions equip your university environment with a broad spectrum of smart technologies that enable proactive operations and strategic planning for an improved university experience.
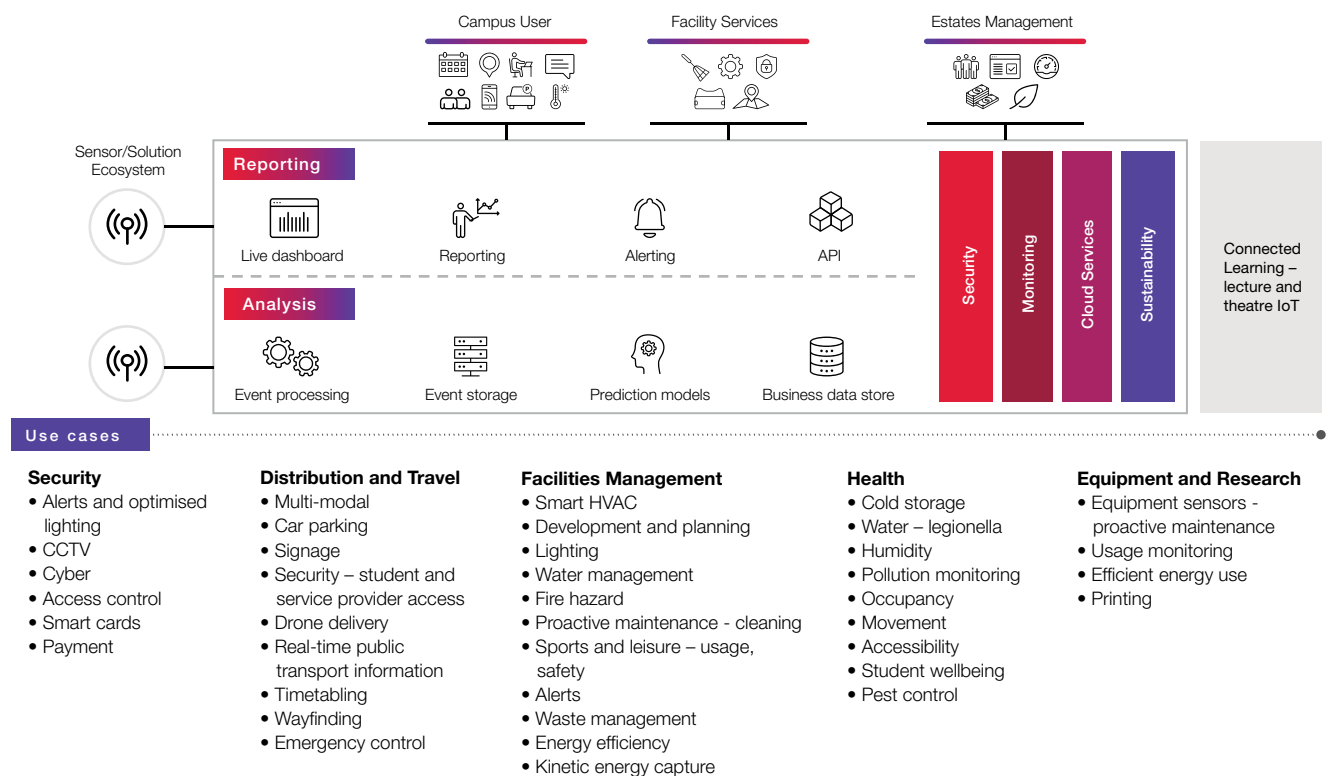
Beyond learning

The Digital Led Campus is not just a place for learning, it is a complete transformation of university life where digital assets create "ambient intelligence" and inspire a vibrant environment. This is a campus that supports improved health, inclusion and wellbeing, and facilitates a safe and sustainable environment with optimised transport, lighting, energy and waste reductions.

Drawing on a digital transformation strategy that allows for more spending on teaching innovations, buildings transform to create dynamic learning environments that inspire students, whilst staff are motivated by a proactive daily working life that ceases to be reactive and event-driven.

Furthermore, when using these technologies to support critical themes such as climate change, your university will demonstrate that it is making great strides towards net zero, not only inspiring its locality, but helping to establish your organisation as a university of choice across the globe.

Here are some examples of how we can use our Digital Led University vision to transform daily life across your campus:

Security
- Alerts and optimised lighting
- CCTV
- Cyber
- Access control
- Smart cards
- Payment

Distribution and Travel
- Multi-modal
- Car parking
- Signage
- Security – student and service provider access
- Drone delivery
- Real-time public transport information
- Timetabling
- Wayfinding
- Emergency control

Facilities Management
- Smart HVAC
- Development and planning
- Lighting
- Water management
- Fire hazard
- Proactive maintenance - cleaning
- Sports and leisure – usage, safety
- Alerts
- Waste management
- Energy efficiency
- Kinetic energy capture

Health
- Cold storage
- Water – legionella
- Humidity
- Pollution monitoring
- Occupancy
- Movement
- Accessibility
- Student wellbeing
- Pest control

Equipment and Research
- Equipment sensors - proactive maintenance
- Usage monitoring
- Efficient energy use
- Printing

Enabling the Digital Led Campus

A key enabler of the Digital Led Campus is the internet of things (IoT), helping to drive new processes and revenue streams, encouraging proactive responses to stakeholder demands, increasing compliance, strengthening security, and reducing costs across the campus. This is possible because IoT enables multiple assets to act in unison, which results in "ambient intelligence." Through ambient intelligence, the entire university environment becomes smarter and more interconnected.

By implementing a consolidated live dashboard into the environment, we can then gain a "single pane of glass" view that provides real-time insight into life across the campus. The data can be analysed and used to support policy, financial efficiencies, proactive decision-making and other major strategic initiatives. This dashboard analytics also closely supports business systems and processes by enabling a move towards proactive management that both reduces routine costs and provides more asset sustainability.

Throughout, communication is critical in order to highlight why the various changes are being made to the campus, as well as how these will benefit stakeholders. Change programmes will articulate all outcomes, such as:

- Safety (e.g. optimising safe environments by monitoring room occupancy)

- Cleaner environments (e.g. managing and improving air quality to reduce stress levels, improving productivity by a predicted 12%)

- Safe and connected travel

- Access to resources

- Improved wellbeing

- A demonstrably "green" university.

How we accelerate the Digital Led Campus

We combine our IoT experts, global insights, deep industry knowledge, and strong engineering and technology skills to deliver a clear Digital Led Campus roadmap, using business cases that help to deliver the right solutions and outcomes quickly for your university. At each step, we will review the best innovators to bring into your ecosystem in order to design a unique campus aligned to your visions.

We can also help to create a digital twin of your university in order to support planning; this is a platform used to visualise and trial the entire Digital Led University, helping to inform decision-making and investment plans. By integrating digital twins with IoT, artificial intelligence, video analytics and augmented reality, we can ensure the successful transformation of your campus.

CGI can also bring our own solutions to your campus, such as SensorInsights 360, which is a scalable, real-time data platform that delivers an end-to-end approach to IoT, asset data collection and asset management.

The success of the Digital Led Campus relies upon a unified, secure network that CGI will design and optimise to handle the increased information flow that smart technologies bring.

When successful, these smart solutions not only benefit all users of the campus, they can scale up across an entire city, helping to help establish your university as a "smart city" incubator that benefits all citizens.

Our Digital Led University solutions

Whether your university is taking its first steps in IoT, looking for help in running its IoT environment, or has ambitions to establish itself as a leading stakeholder in its locality with digital twinning, we have the end-to-end capabilities and proven frameworks to help achieve your campus goals quickly.

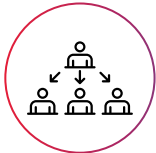Embracing a Digital Led Campus vision, your university will most importantly establish itself as an innovative brand that attracts prospective students.

Why CGI?

+82,000 members

85% of members shareholders

+190 IP-based solutions
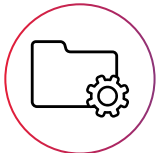
95% projects on time, on budget

9 SOCs worldwide, 2 UK-dedicated

5,500 end-to-end services clients globally

400 locations

40 countries
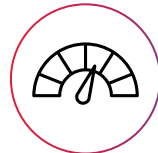
9.3/10 client satisfaction score

5 star SDI accredited service desk for 10 years

CGI Advisory Services

For 45 years, organisations have trusted CGI to transform their operations with innovative and reliable services and solutions. Committed to supporting our clients for every step of their digital journeys, two years ago we established our Advisory Services, where our experts utilise their vast knowledge and experience of delivering world-class IT to collaborate closely with clients and help them unlock their full potential.

It is here that our vision for the Digital Led University was developed. In our ever-evolving world, technology provides higher education institutions with unlimited opportunities to continuously adapt, and we understand that this digital transformation isn't simple! Our Digital Led University approach supports our clients with the right solutions that are aligned to their institution; the university experience is simplified, seamless and secure for the convenience of students, staff and investors, and your university benefits from an increased reputation, cost savings, sustainable operations and much more.

About CGI

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world. We are insights-driven and outcomes-based to help accelerate returns on your investments.

Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

Learn more at cgi.com/uk

For more information enquiry.uk@cgi.com