Smart connected campus: Digital technology for student success

Alcatel-Lucent Enterprise delivers the foundation to empower educational innovation

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Building a strong technology foundation

Schools, colleges and universities face significant challenges in updating outdated IT with seamless technology integration to ensure a personalized, high-performance teaching-learning experience. Innovation in education cannot thrive on outdated infrastructure – institutions need a strong technology foundation to stay agile and a dapt to new trends.

However, the education sector has struggled to modernize its communication and networking systems while improving student-focused services to better support and enhance the learning experience.

Students and faculty want to learn in a safe and secure environment, and expect the same level of simplicity and response from campus e-services as they get at home. Smart campus solutions and tools are created through digital transformation that includes digital age networking, Wi-Fi, Rainbow and Rainbow Classroom, smart mobility, cybersecurity, safe campus tools and sustainability.

Alcatel-Lucent Enterprise provides scalable, future-proof infrastructure that is the baseline for emerging edtech tools, reducing downtime and enabling innovation in classrooms.

"As colleges and universities face a shifting landscape – characterized by increasing student expectations, the demand for flexible learning options, and a competitive job market – embracing technology becomes more vital than ever. Leveraging digital tools can facilitate personalized learning experiences, improve accessibility and enhance student engagement, offering new possibilities for the future of higher education."

Source: https://upcea.edu/using-technology-to-transform-higher-education/

Solution sheet
Smart connected campus: Digital technology for student success

The pillars of innovation

Innovation in education cannot thrive on outdated infrastructure. The foundation for educational innovation is built on:

- Connectivity
- Digital age networking
- Continuity and mobility
- Digitalized campus safety
- The right partner

Alcatel-Lucent Enterprise empowers institutions to become leaders in educational innovation, thanks to future-ready networking and communications infrastructure that evolves with your needs and supports continuous technology advancement through:

Seamless connectivity
- Provides connectivity, communication and collaboration between objects, applications and people
- Simplifies operations by federating systems into a single intelligent network

Operational efficiency
- Provides optimal efficiency by streamlining and managing a secure, resilient network with workflow automation
- Ensures flexibility and agility with easy scaling and reconfiguration
- Simplifies facility management

Sustainability
- Contributes to net zero by monitoring ambient space occupation and consumption
- Provides efficient network design to optimize power consumption

Human centricity
- Provides a people-centric approach through collaborative and cognitive solutions
- Monitors and optimizes environment, health and safety (EHS) for human well-being

Student success is driven by connectivity and collaboration. It should:

- Help students and faculty connect with the right colleagues to solve problems
- Provide a safe and secure learning environment
- Provide a digital campus information portal and notification reminders
- Create tech and apps that provide information access and make sharing easy
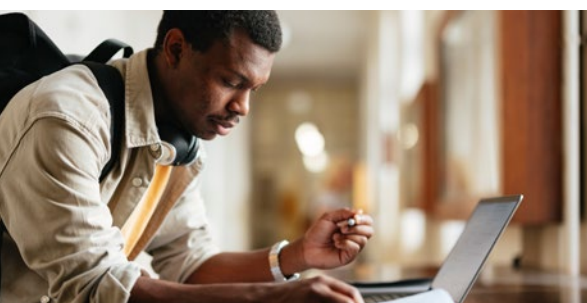
Smart campuses mirror smart cities

Smart campuses grow with your institutional needs and enable innovation at any level – whether it's for AI-powered tools, cloud-based platforms or cutting-edge learning technologies. Smart campuses are essentially smart cities with smart buildings that feature seamless technology integration, ensuring a personalized teaching-learning experience.

Alcatel-Lucent Enterprise helps schools, colleges and universities become connected campuses by:

· Using standard and open technologies that easily integrate into a global ecosystem

· Helping to transition to the cloud and providing flexible cloud models to simplify innovation adoption, increase efficiency and control costs

· Connecting everything: People, objects (IoT), processes and applications to enable innovative, smart city services

· Providing high-availability communications within smart city operation control centers with standard APIs to integrate within control center applications

Smart campuses provide a strong foundation for educational innovation, thanks to:

· Digital age networking

· Reliable and secure Wi-Fi

· Common tools for collaboration

· Location-agnostic learning

· Smart mobility

· Cybersecurity and safe campus tools

The right partner

Focusing on student outcomes rather than technologies is the best way schools, colleges and universities can address their significant challenges.

Working with an experienced partner with deep knowledge of campus-wide digital transformation is essential to ensure every aspect of the student experience is part of the school's core

strategy. The right partner knows: When students are successful, educational institutions are successful.

Alcatel-Lucent Enterprise provides:

- Multi-standard IoT support
- Secure and automated IoT onboarding
- Alcatel-Lucent OmniAccess Stellar WLAN

- Shortest Path Bridging (multi-service) and IP multicast support
- Network automation (iFab)
- Security standards and certifications
- Communications
- Rainbow by Alcatel-Lucent Enterprise workflows and APIs

- Deep knowledge of digital transformation strategies and technologies
- Design strategy centered on student needs
- Deliver capabilities institutions need, both today and tomorrow
- Create competitive advantages
- Build a strong technology foundation that adapts to new trends

Learn more about ALE and education.

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