

# SMART BUILDING- CAMPUS



Buildings and campuses have an increasing demand for better connectivity within their infrastructures. For campuses most especially, the increased data demands and the present stress on the networks calls for an immediate solution to mitigate this challenge.

Take, for instance, the average university is a hotbed for innovations and ideas and thus drives it to a nearly insatiable need for connectivity. From labs to classrooms, to internet coverage, sports arenas, AV equipment; the list is unending.

Despite these needs, most campus facilities approach the demand for connectivity using a siloed approach. This implies that every facet of the campus or building acts independently when it comes to connectivity. Typically, buildings and campuses are connected individually to different services. This brings about underlying connectivity challenges like:

- 01 Long-term contract lock-in
- 02 Static environments with changes taking weeks or months
- 03 No optimization of services, connectivity, or manageability
- 04 Little monitoring or feedback capability

As suggested by the International Telecommunication Union, an all-optical network brings more stable, faster, and more reliable always-on connectivity to meet the network evolution needs and provide sufficient bandwidth for new services for the next 30 years.



## A CHANGING NETWORK ARCHITECTURE



Due to the robust data demand by campuses and buildings, traditional networks might just be inadequate to meet the campus network needs. Copper wiring limits speed and distance, which are essential for any campus. We cannot overlook the high demand for high-resolution video streaming within the campus environment.



FiberSmart changes the landscape by changing the network architecture for campuses, firing up smart campuses and smart buildings. Built on an intelligent fiber infrastructure, a dynamic fiber network allows for a true Smart Environment to be delivered.



Services can be connected remotely in a matter of seconds allowing for On-Demand services.



Fiber resources can be allocated as required, for as long as needed, resources can be pooled and utilized more efficiently.



Smart services can be fully implemented with a common fiber infrastructure to monitor, deliver and control.



Fast churn environments such as student accommodation, managed offices, research parks can be managed quickly and efficiently without needing site visits or asking local admin staff to provide 'smart hands' services.

Don't forget that fiber optics also allow for reduced cost and saving of valuable space. Finally, with fiberSmart smart campus solution, operations and maintenance costs or O&M can be minimized since one person can easily maintain an entire campus network.