

BSC's Role in Internet Connectivity and Cybersecurity.



ISO/IEC 27701:2019 MANAGEMENT SYSTEM MSECB

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SO/IEC 27001:202





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Who we are

We are an experienced Information technology company that provides world-class broadband connectivity and solutions to empower citizens, communities, government, and businesses in Rwanda and the region.

BSC's initiatives aim to substantially increase internet connectivity, foster e-learning opportunities, and enhance cybersecurity measures in Rwanda. Our efforts directly align with several UN Sustainable Development Goals (SDGs): Quality Education (SDG 4), Innovation (SDG 9), and Cybersecurity (SDG 16)T







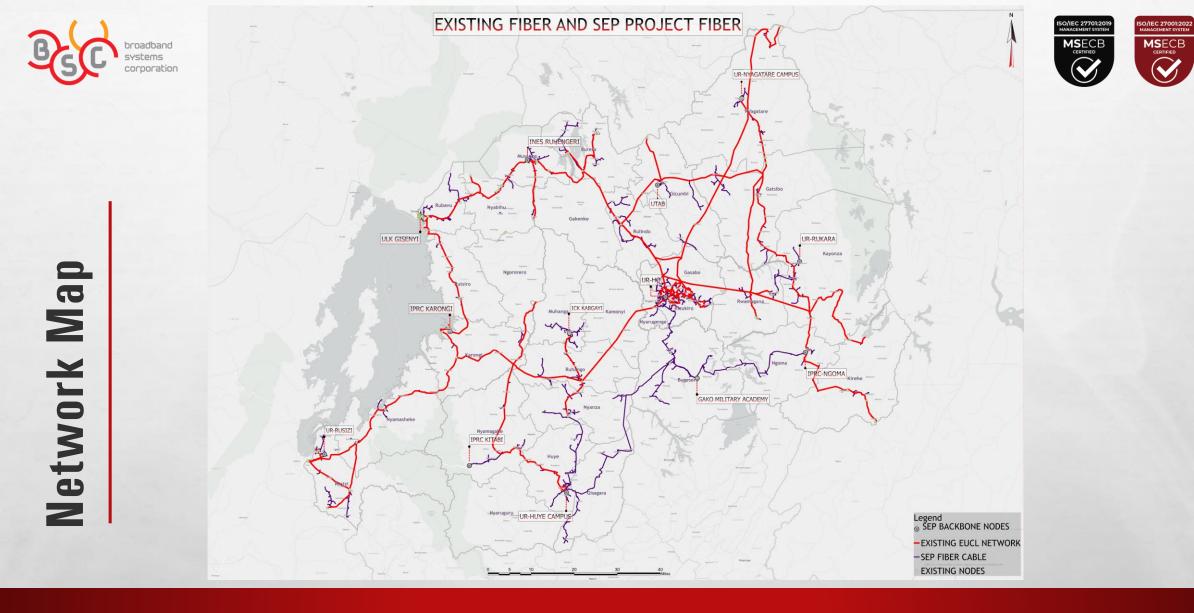
Initial Mandate(2008) Fiber Optic	Public Se Connect		Private Sector Market Offerings An array of service offerings, Cloud, Cyber-security, Fixed Wireless Internet, Fiber Broadband internet, and 4G internet.		Value Added Services
Laying over 8000km of fiber optic cable covering all 30 districts, 2300km aerial network BSC radio infrastructure.	service Over 700 institution	ity for public e delivery:) education ns, Over 400 n centers.			BSC provides Value Added Services in demand such as managed security services and video conferencing services.
New Market Technologies such as Artificial Intelligence and Big Data. Service Diversity		Services, C call cen	Managed loud-based ter, PBX. e Services	 Mozaml South S Kenya Targetir other At Continu 	

Milestones

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BSC IN EDUCATION





In the digital age, where eLearning has become an integral part of education, providing learners with flexible and convenient access to educational resources, the crucial role of reliable internet connectivity emerges.

However, as the reliance on online platforms for learning increases, so does the importance of cybersecurity in ensuring a safe and resilient learning environment.





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Statistics

Globally, **2.2 billion** children and Young people aged 25 years or less two-thirds of children and young people worldwide do not have an internet connection.

5.13 million attacks

The surge in malware attacks targeting the education sector between July and August 2022, with approximately 5.13 million attacks within a month. This significantly impacts Child Online Protection by increasing the vulnerability of educational platforms and potentially exposing children to cyber threats.





Partnering with various entities, BSC embarked on projects merging **internet connectivity** to transform education in Rwanda, prioritizing learner safety through robust **cybersecurity** solutions.





BSC & OGN PROJECT

In efforts to expand connectivity swiftly and cost-effectively, BSC collaborated with the Ministry of Education, alongside the Rwanda Education Board (REB) and the Rwanda Information Society Authority (RISA). **Over 2000** schools have been successfully deployed on a 4G network as part of the One Government Network (OGN) initiative.

This strategic approach aims to ensure widespread accessibility to digital resources, particularly in areas where the installation of fiber optics proves economically challenging.







BSC & UNICEF IN EDUCATION



In collaboration with UNICEF, BSC partnered to deliver internet and network security to **74 secondary schools** across three distinct districts (Bugesera, Kirehe, and Gatsibo). This comprehensive internet security suite, known as **Child Online Protection**, aims to safeguard the next generation from potential harm, enabling them to concentrate on their studies and contribute to their career development.





Though the above initiatives and rollouts were in place, the education institution still was missing one network that would link the education sector sites such as Primary, Secondary, High Learning Institutions, research centers, and other related institutions.





BSC & RWANDA SMART EDUCATION NETWORK

The Ministry of Education has launched the Rwanda Smart Education Network (RSEN) with BSC as a key player. RSEN aims to connect **1437 sites**, including primary and secondary schools, 63 higher learning institutions, and research centers, via a main data center in Kigali and a backup center 150km away.





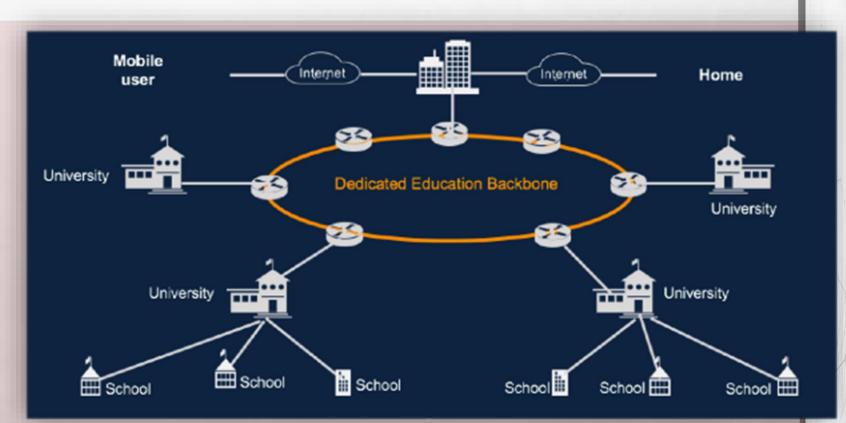
The project's goal is to establish a dedicated and affordable high-bandwidth network for exchanging teaching and learning materials among educational institutions in Rwanda.





Smart Education Network

The Rwanda Smart Education Network, will not only connect together the education sector but also will provide an infrastructure whereby the content, platform, online learning, and sharing among the education sectors will be facilitated under a dedicated network.







BSC & CHILD ONLINE PROTECTION

Using our cybersecurity solutions, we proactively block content harmful to children, including:







BSC's expertise combines cutting-edge technology with a commitment to education, ensuring secure, high-speed connectivity that revolutionizes learning.

Partner with us for transformative solutions in education and beyond.





THANK YOU

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