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Qatar National Broadband Network (Qnbn)

A first for the region, Qatar National Broadband Network (Qnbn) is a government initiative towards transforming Qatar into a sustainable knowledge society in line with its National Vision 2030. By facilitating high speed communications through cutting edge technology, Qnbn strives to achieve its objective of making Qatar the best connected country in the GCC and the most connected in the world.

Qnbn, which is a shareholding company owned by the State of Qatar, is duly licensed by (CRA) and subject to its rules and regulations. Through its visionary outlook and collaborative market approach, Qnbn will be able to provide broadband fiber access to individuals and organizations, in line with Qatar Digital Agenda 2030.

Qnbn is entirely focused on the deployment of a network infrastructure that provides operators with open and equal access, enabling them to offer a wider choice to end users by utilizing fiber optics. This will allow end-users to choose the service provider thus encouraging fair competition and enabling operators to focus on innovation and product development

Qnbn aims for 95% coverage in its efforts to fulfill the bigger digitalization agenda of the country.



Vision

We envision ourselves as a major contributor towards Qatar's advancement, providing the latest technology platforms to help achieve a knowledge-based, sustainable economy in line with the country's National Vision 2030.

Mission

We aim to achieve 95% coverage of high-speed fiber optics broadband (100+ Mbit/s) across Qatar.

Values

Empowerment: Empowering our people, our customers and our country.

Openness: Ensuring that operators have equal access to our open network.

Innovation: We are the drivers of innovation in Qatar and we are driven to innovate to that end.

Community: Community drives us and we're committed to the community's well being.

Qbn & Qatar National Vision 2030

The Qatar National Vision 2030 is an inspiration for Qatar to achieve real progress in human, social, economic and environmental development.

Committed to meeting Qatar's need of high speed communications, Qbn is totally dedicated to providing a state-of-the-art fiber optic network that will enable Qatar to consolidate its place as one of the most dynamic, progressive and fastest growing economies in the world and the region.

This fiber optic network will have a transformational impact on its users by engendering positive changes through high speed Internet delivery that will allow them to achieve success at work and enjoy improved quality of life at home.

It will enhance education services, empower businesses to become more competitive, fuel their growth and offer truly sustainable solutions that preserve natural resources and reduce Qatar's carbon footprint.

2030

Our Focus

Serving the wider digitization agenda of the country, Qbn has taken a collaborative approach to the market, enabling a choice of service providers to consumers. Qbn's main focus is to deploy network infrastructure, providing equal and open access to operators. In this way, it will efficiently leverage existing as well as new infrastructure in Qatar, translating into a better prospect for consumers and businesses for a more competitive and innovative market.

Our Promise

-  Connecting the nation
-  Swift deployment across the country
-  Equal and open access to all operators to promote competition and innovation
-  Affordable prices to promote widespread adoption and support
-  Bringing next generation high speed broadband infrastructure to enhance communication



Why fiber optics technology?

Fiber optic cable is the next-generation alternative to copper wire networks and is at least 10 times faster than conventional broadband. It will transform the community and enterprise by bringing with it enhanced services, multi-media entertainment at faster download speeds, cost savings, more choice, increased competitiveness and improved sustainability.

Fiber-optic communication is a method of transmitting information by sending pulses of light through an optical fiber. The light forms an electromagnetic carrier wave that is modulated to carry information. Fiber-optic communication systems have revolutionized the telecommunications industry. Because of their advantage over electrical transmission, optical fibers have largely replaced copper wire communications in core networks in the developed world as the most reliable solution for Internet access.

Fiber Optic Infrastructure for a Knowledge-Based Future

Products & Services

GPON Connection

GPON (Gigabit Passive Optical Network) is a point-to-multipoint access with a speed higher than 100 Mbit/s that uses passive splitters in the fiber distribution network.

GPON reaches a widespread residential and small to medium business premises for the purpose of offering fiber based Telecom services such as fixed telephony, broadband internet and TV services.

Point-to-point Connection

A Point-to-Point Connection is a private fiber connection directly connecting a certain premise with Qnbn's Central Office (CO) using dedicated fiber strand. The product can be used to connect two or more premises in order to provide private data.

It is used to provide the customers with a complete end-to-end connectivity between the different branches and data centers of their premises at very high capacities higher than 1 Gbps. Point-to-Point links are mostly used by big enterprises, government agencies, hospitals, education facilities to provide reliable data services for their applications which could include: data sharing, disaster recovery, Voice, Internet broadband and video conferencing.

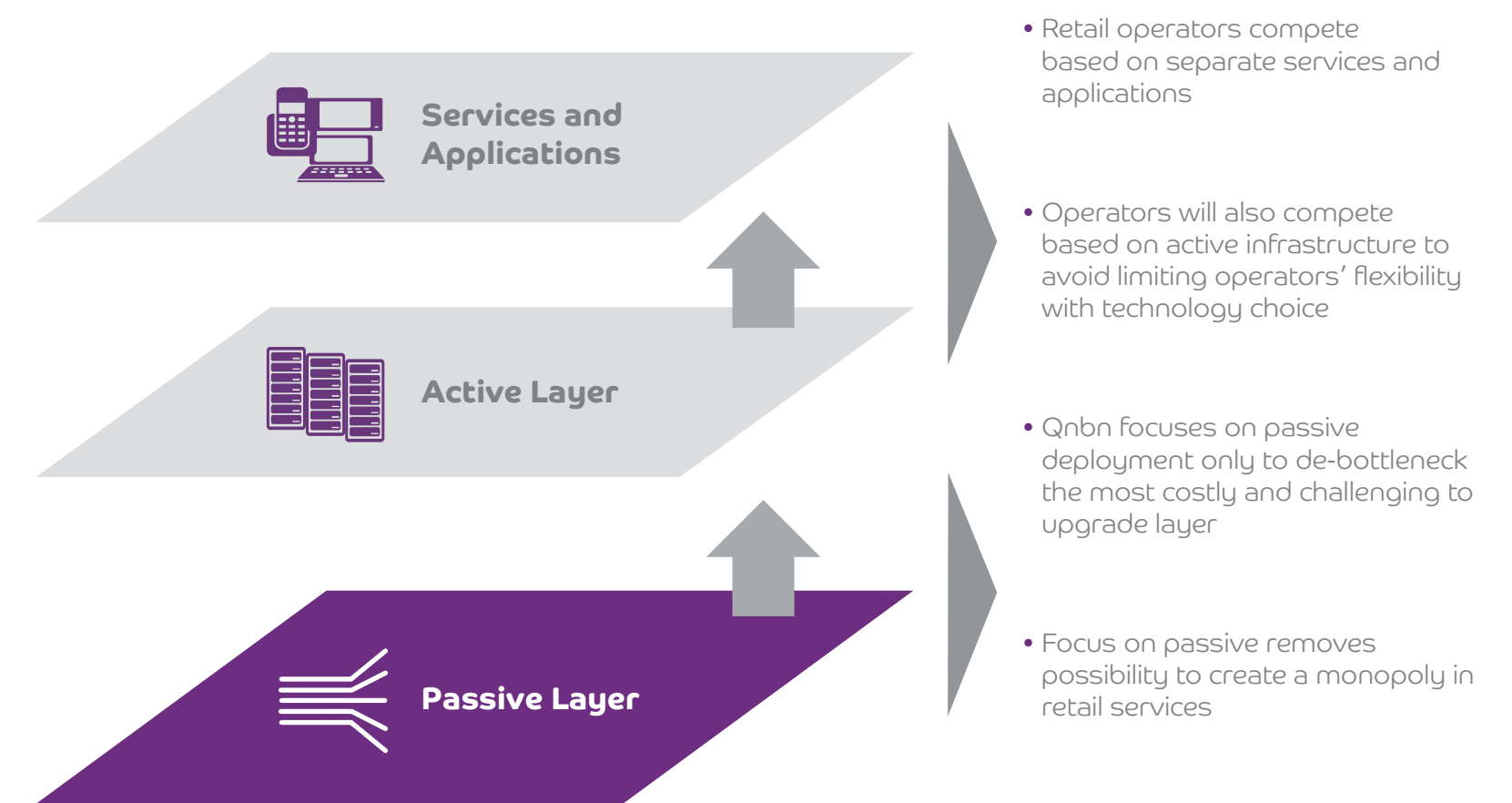
Central Office To Central Office Connection (CO-to-CO)

A CO-to-CO Connection is a fiber link connecting two Qnbn CO locations. It is used by the customer to connect their hosted active network equipment, servers and any other interconnecting equipment co-located at Qnbn's CO locations.

Colocation

Colocation service provides to the customer all the resources needed to install and operate its own network equipment in Qnbn Central Offices. With the Colocation service the customer gets access to Qnbn fiber network in the same building where the fiber cables connect homes and business premises. The resources included in the Colocation offering are CO space, security, energy and climatization with almost 100% availability and continuous support from Qnbn.

Qnbn's Model



Comprehensive Benefits of Broadband

The lasting benefits of broadband are irrefutable. They cut across sectors as widespread as home and healthcare to environment and real estate and augment the economy by having a positive impact on the GDP.

Homes

Broadband will enhance the quality of life at home by providing high speed internet access. Users can experience entertainment come alive at home, interact far better online and connect with family and friends in a matter of seconds. They can also choose to work from home thereby obliterating the need to travel, leading to a reduction in traffic and carbon emissions.

Real Estate

With high speed broadband, real estate companies can provide the very best of cutting edge services to customers, enhance multimedia applications, connect the key areas of infrastructure, transport services and utilities, extend broadband coverage to all the new premises and ensure access to broadband by residents now and in the future. Over and above, users will be able to choose their telecommunications service provider.

Businesses

Broadband will enhance a wide range of businesses from SMEs to large international corporations through high speed fiber optic network. Benefits include facilitating cost savings by replacing travel options through video conferencing, creating a more favorable innovation and investment climate, enabling better logistical management, pioneering the development of new applications and opening up a whole new world of business possibilities.

Government

Improved communications between Government departments, better efficiency, enhanced working environment, state of the art rule and advanced national cyber security are some of the leading benefits of broadband to this sector.

Healthcare

Dramatic improvement in the management of health care information by providing professionals with the requisite tools. Doctors and patients are equipped to make informed decisions, enhancing efficiency, providing better access to health information and services, improved procedures and invaluable instantaneous feedback from qualified specialists in the field are the primary benefits conveyed to this sector.

Environment

Broadband is highly beneficial to the environment by ensuring an improved system performance, zero radiation emission and immunity to electrical noise, providing greatly increased bandwidth and greater access to worldwide communications as well as reducing the potential carbon footprint by obliterating the need to travel.

Education

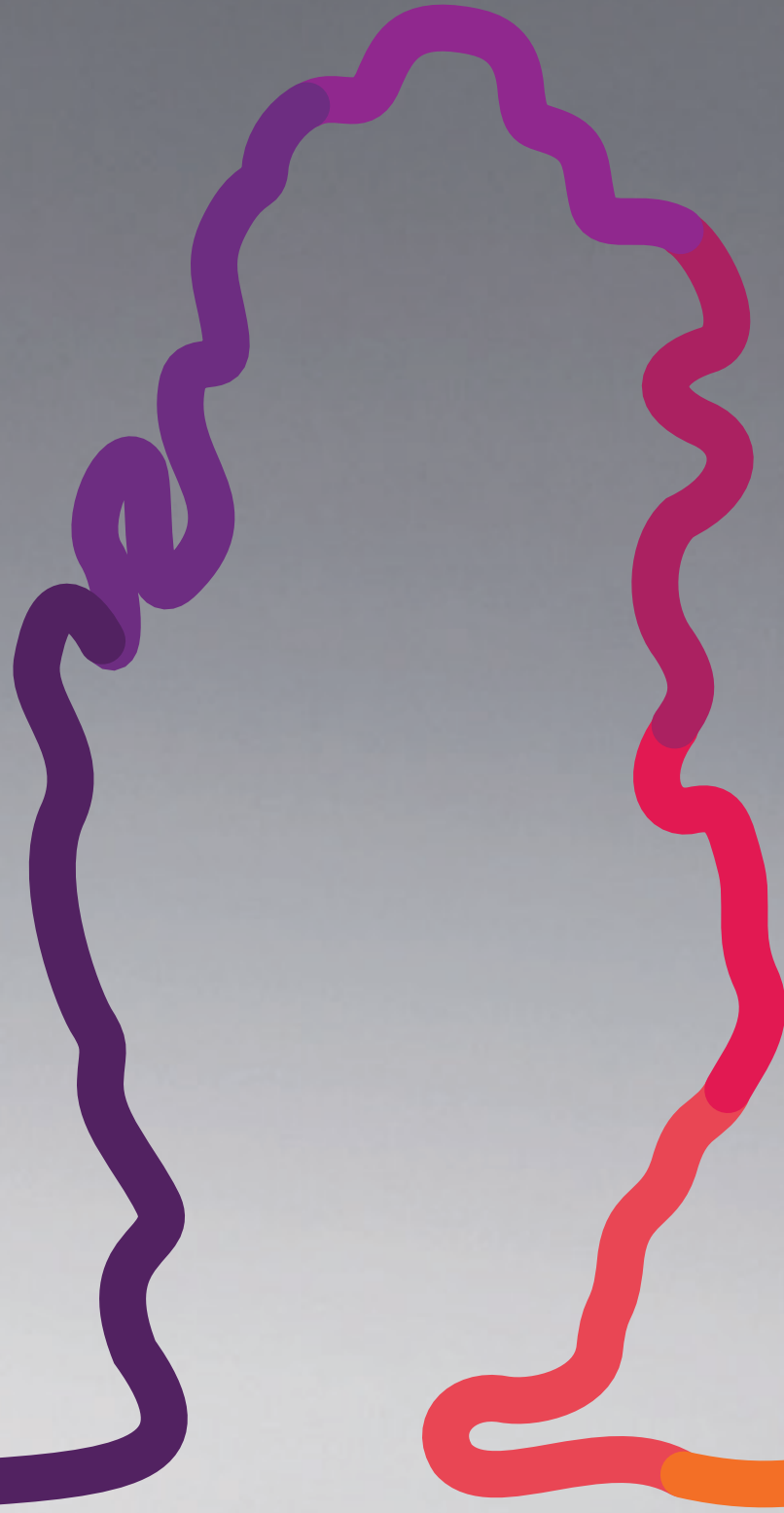
Broadband boosts educational development by providing personalized online learning, enabling students to share e-learning services and facilities, providing access to new technological developments, ongoing education and studying in international colleges through distance learning.

Public Safety

Broadband enables the implementation of advanced telecommunications together with energy conservation, security data services, on-line metering and refined real time control of power systems for optimum performance.



Qnbn's fiber network will encourage innovation and entrepreneurship through fresh new digital content. Naturally this involves developing human capital across the board with an ecosystem that enables creative ideas to flourish in a digital world. It will also provide the spur to modernise the legal and regulatory framework, enhancing cyber safety and security.



ستسهم شبكة الألياف الضوئية الجديدة من الشركة القطرية لشبكة النطاق العريض في تشجيع الإبداع من خلال محتوى رقمي جديد، وبطبيعة الحال سيتضمن هذا تطوير رأس المال البشري في جميع المجالات من خلال بيئة تشجع الأفكار الإبداعية التي يمكن أن تنمو وتزدهر في العالم الرقمي. كما ستوفر الشبكة حافزاً لتحديث الإطار القانوني والتنظيمي، وتعزيز السلامة والأمن السيبراني.