

SOLUTION NOTE **CONNECTED PROVINCES**



Wireless Connectivity for Smart Provinces

Connecting rural villages to urban life.

Think Big. Start Small

Start connecting every community
Scale up network coverage
Grow fast

The Challenges

More than half of the world population live in urban areas to date. Many studies suggest the number of people migrating to urban areas will increase every year by up to seven-out-of-ten people (68%) by year 2050. **Urbanization is happening!** Every week, 1.5 million people move to live in cities to find better job opportunities, education and access to social services. However, rapidly growing urbanized cities have been struggling to keep up with this growth, which leads to common challenges such as poorly planned infrastructure, inadequate housing, transport congestion, overloaded healthcare and educational services, and insufficient access to basic needs such as freshwater and sanitation.

One of the biggest challenges rural areas face is to provide children with education. Almost one-tenth (9.2%) of the total population consists of young children (5-14 years) living within rural areas, often living hours away from school. The dropout rate for students living in rural areas is alarmingly higher compared to those in neighbouring urban areas as this challenge expands across families, villages, provinces, and nations. The technological capabilities of today's world can offer a complete solution to overcome this. So it's important to rally the support from all levels of society to put a stop to everything endangering this generation in living a life of poverty by instead bringing quality education to everyone, starting today.

The notion of living in urban cities does not result in better education and furthers population density related issues. Instead, this trend can be reversed by **connecting rural villages to urban life** to improve the overall standard of living to benefit all. To achieve all of this, **connectivity is the key.**



Healthcare

Provincial Hospitals
IT Systems
Remote Consultation

Education

Home Schooling
e-Learning

Government

Connected Departments
Disaster Management
Network Audio Systems
Local Wi-Fi in Villages

Safety and Security

Video Surveillance
First Responders
Video Analytics

Connected Province

To improve healthcare services, provinces can unify the region's hospital IT system to allow doctors access to patient details, telemedicine resources, and medical experts, resulting in better treatment, lower mortality rates, and better quality of life.

Connecting schools across municipalities allow for homeschooling to become the new norm. A more robust school network also strengthens the interactions between teachers, students and even parents, ultimately decreasing the chance of dropouts.

Without effective oversight, local governments can only respond to the following natural disasters such as earthquakes, typhoons, and flooding. Connected provinces allow local governments to take better precautionary measures, quicker response times, and better priority management to provide the best care to the areas in most need.

Connectivity for Provinces

Connectivity is the foundational step forward in developing a sustainable setup for more companies to establish and create more local job opportunities, improve healthcare and education systems, and creating a safer and secure province. The best solution is to deploy a Wireless Mesh Network for the most cost-efficient, scalable and robust result.

A province-owned Wireless Mesh Network puts the province in the driver seat. There is no hidden or reoccurring cost draining the budget. Instead, the investment becomes a platform for any IT system and also acts as a building block for any future expansions. In addition, local villages can also be further empowered with access to local Wi-Fi on this Wireless Mesh Network provided by the provincial government.

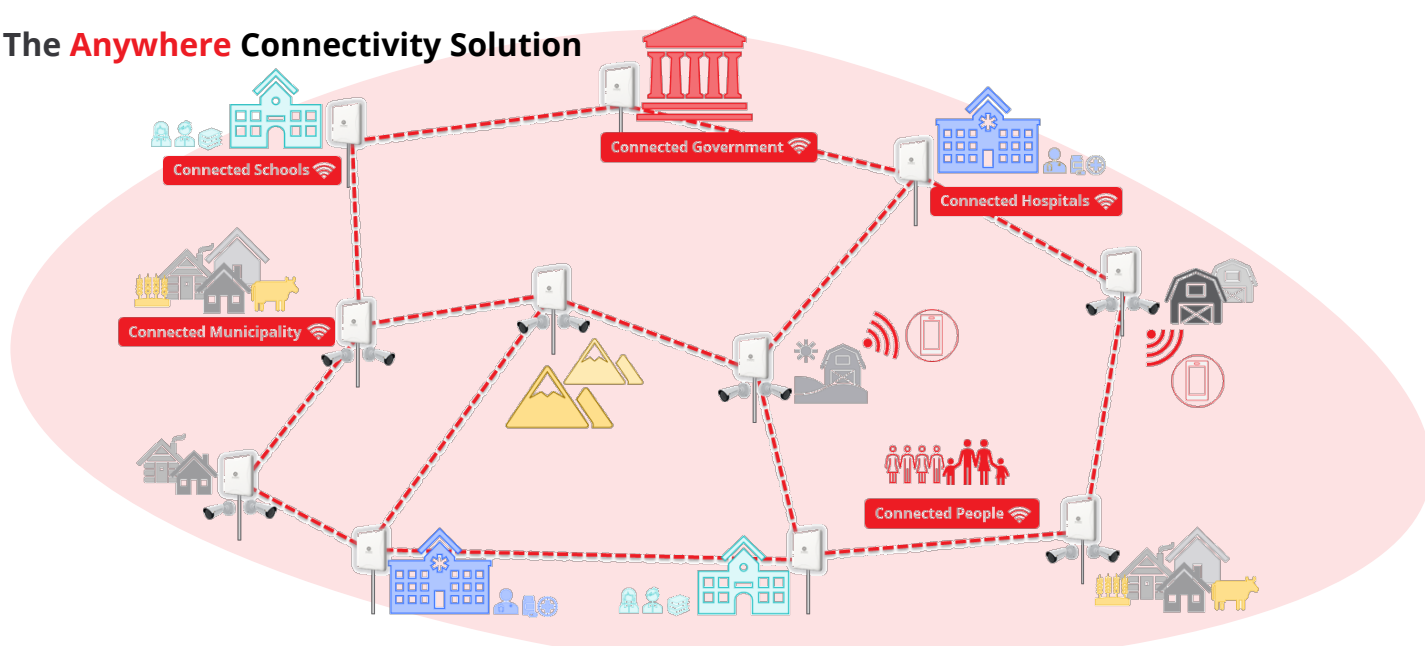
Wireless Mesh Networks creates a web of connectivity that can stretch hundreds of kilometres, where mountains, rivers, rain, snow, typhoons and even earthquakes no longer become obstacles for progress.



By connecting all the municipalities, local hospitals, and the many provincial government buildings located throughout the province, people are able to have their interests and demands fully met within the province, rather than seeking them in neighbouring cities or abroad. Even more importantly, the combined efforts of better-connected communities, schools, hospitals, and social services will allow for changes in the province that will allow for the younger generation to access the education required to empower them with the skills and talents needed to free them from poverty to work towards a prosperous life along with their families.

Did you know? The installation time for a Wireless Mesh Network dramatically shortens the time compared to fibre deployment. Province-wide installations can be deployed within weeks in comparison to the typical months or years needed to install fibre. **Make the change for a better future today!**

The Anywhere Connectivity Solution



High-Capacity Throughput • Security • Automatic Load Balancing • Flexible Topology Design
Redundant Smart Routing • Rapid and Easy Deployment