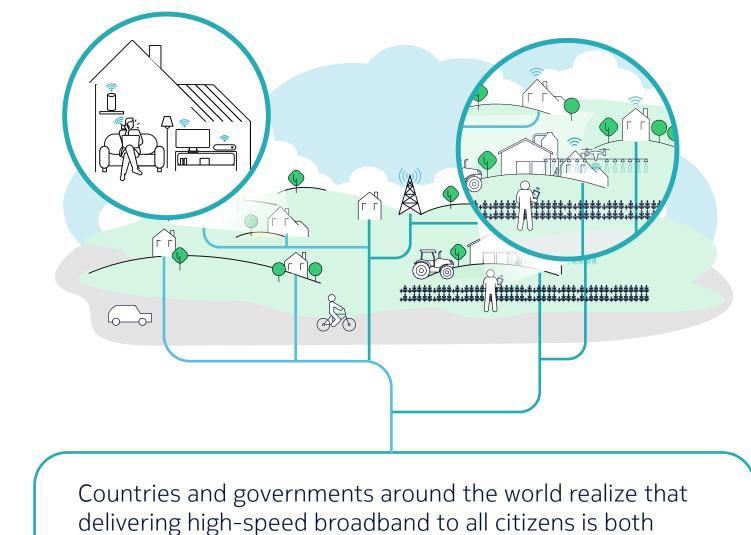


## The top 3 myths about rural fiber broadband



urgent and critical. Bridging the digital divide and bringing the socio-economic benefits of broadband to rural areas is a top priority. But some old myths remain...

...let's bust them!

## Customers in rural areas don't need high-speed

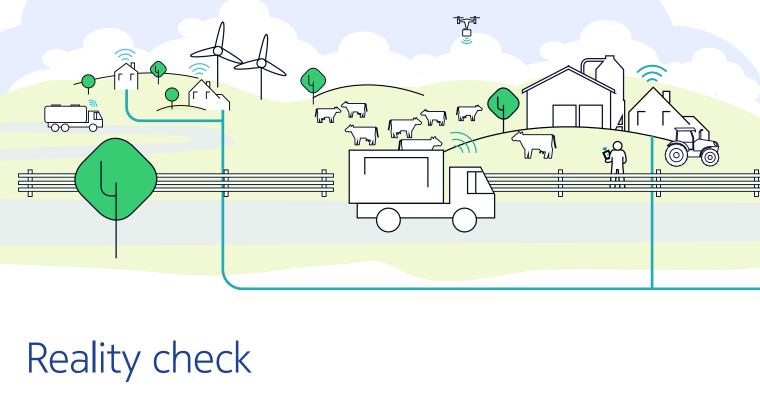


Myth

### Typically, fiber deployments have been focused on urban and suburban areas with a dense subscriber base. Demand is high, and so is the supply. Rural areas had to be happy with whatever broadband they could get.

broadband connectivity

But rural areas are crying out for better connectivity. The demand for good broadband in rural areas is the same, if not bigger, because it makes a life-changing difference.



and suppliers wherever they are.

with friends and family.



analyzed in the cloud to aid automation, process flows, and decision-making.

Citizens get better access to education, healthcare,

entertainment, working from home and staying in touch

Some, like modern agricultural farms, need reliable,

high-bandwidth connections to support their big data

applications: high-resolution video and images that are

It helps businesses be better connected to customers



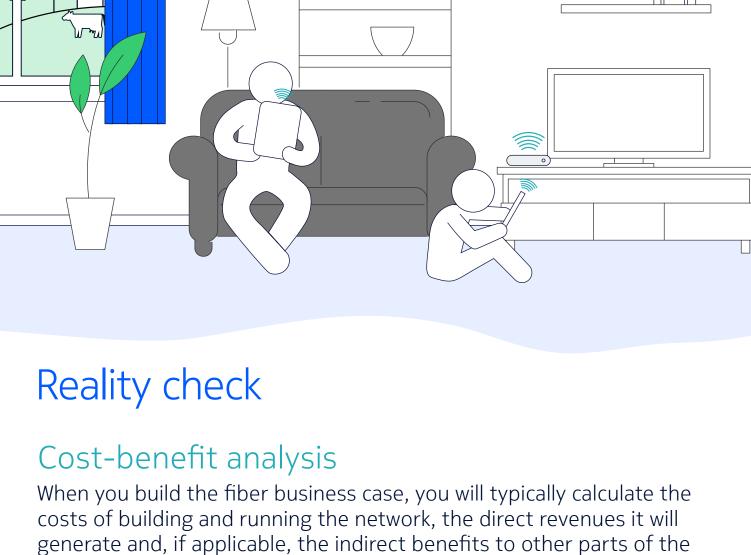
There is no compelling case for investing in rural broadband

Today, broadband is considered a life-enhancing

necessity. For regional operators and governments,



## not investing in rural broadband is not an option. But investment decisions always start with a cost-benefit analysis. So let's do that.



network. But to complete the picture, the analysis of the status

Clearly, if you don't invest, there are no additional revenues, but there

is no cost either. But are you happy with the status quo? Not really.

quo—not investing—must also be made.

Competition

urban areas.

#### Areas where there is demand but no supply are highly attractive to competitors, especially disruptors and new entrants. That leads to loss of market share and a

Because you still have risks.



fiber, generally drawing only about 20% market share compared to 60% for high tier services. Communities There's a cost to communities as well. Governments care deeply about rural broadband because it brings

quo: it means going backwards.

Which technology is the best for broadband in rural areas: tried and

overall cost difference is small, GPON is still more cost efficient than

trusted GPON or an immediate move to 10G PON? Technology is tightly coupled with cost: how do you make a fiber deployment cost effective in

socio-economic benefits for citizens, attracts

businesses, and reverses population flows from rural to

Not investing in rural broadband does not mean status

long-term threat from competitors expanding their footprint. Legacy DSL services can't compete against

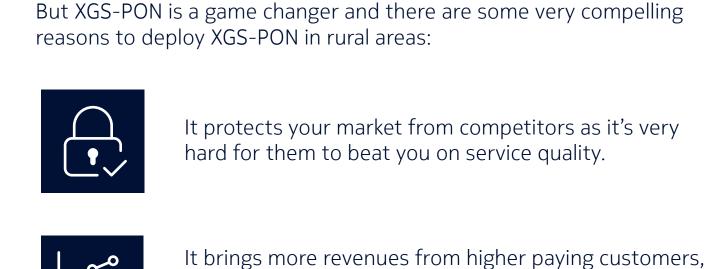
XGS-PON is overkill for rural areas

# Myth 3

#### a low-density rural setting? Fiber broadband in particular is a long-term endeavor: how do you make the network future-proof to avoid new cycles of investment any time soon? GPON can provide competitive gigabit broadband services. Although the

XGS-PON thanks to lower cost ONTs.

Reality check



campuses and warehouses.

capacity to a mobile provider.

like businesses, including rural farms, manufacturing

It can easily support 4G and 5G mobile transport on top,

which provides a great opportunity to accelerate mobile

The capacity of XGS-PON will be enough for many years,

coverage or create new revenues by leasing fiber

eliminating the need for near-term upgrades.



A straight choice between GPON and XGS depends on the demand, competitive threat, and revenue opportunities. Luckily, there is a third, smarter option. A multi-PON solution can serve both GPON and XGS-PON customers from the same PON port in the access node. As such, it allows true pay as you

grow approach that eliminates an either/or decision and lowers risk.

that this approach has 25% lower TCO for 20% XGS-PON take rate.

You can start with more cost-efficient GPON ONT deployments, which

allows you to offer competitive Gigabit services, and upgrade to XGS-PON when it is needed. The business case for a regional operator in UK shows

**GPON** 

remotely switch users to XGS-PON Today: deploy GPON XGS-PON

When needed:

Build fiber networks once and use them for decades to come



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