HBF Technical Conference 2023

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• Virgin Media O2 - Network Expansion, Upgrades & Introducing NexFibre

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- Future Technologies XGS-PON; What is it?
- 1Gbps Capable? Part R 'v' 1Gbps Available & Device Usage
- Current Build on your sites
- Future Build on your sites

nexfibre & Virgin Media O2

Expanding to even more homes, offering even more choice



nexfibre is a joint venture between Liberty Global, Telefonica and InfraVia Capital Partners focused on fibre rollout.

Virgin Media O2 is both the build engine for this entity and a <u>wholesale</u> customer, with our broadband services already available over this network.

Upgrading the Network

It can handle everything we do today - and everything we do tomorrow, but we're still upgrading!

VM02 already connects to over 16 million homes via the Docsis Network (HFC)

Our HFC network is now capable of delivering ultrafast 1Gbps speeds and beyond. This means that it's easily able to handle everything our customers need it to do today and for the foreseeable future.

Future Network

Full Fibre will provide even more bandwidth in the longterm, with symmetrical speeds!

Nexfibre has already begun rolling out targeting at least 5 million via XGS-PON XGS-PON technology is capable of symmetrical upload and download speeds - so, in the future, customers will have the ability to upload as quickly as they download, with potential speeds of up to 10Gbps.

XGS-PON: What is it?

It's a new network technology that will enable us to deliver even faster broadband to our customers.



1Gbps Today – Part 'R' Comparison with some current Μ Μ Μ wnload 1104Mbp Download 362Mbps Download 108Mbps Download 54Mbps G VM Broadband Upload 52Mbp 350 Upload 36Mbps 100 Upload 10Mbps 50 Upload 5Mbps **Devices & Their Usage** Products



Once the devices max out the speed you've got, any more you connect to the internet will work slower.

More speed means there's more to go around when you've got loads of devices connected to the internet.

Current Build on Your Sites

Majority of sites still require multiple Ducts and separate Chambers to Openreach

GTC / Triconnex Sites delivered via OFNL Network Build



Future Build on Your Sites

Improvements from FTTP & XGS-PON

