

# Perth Full Fibre network expansion

Opportunity for investment

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# Introduction

At Neos Networks we believe in making complex connectivity simple.

We bring together the unparalleled expertise of dedicated teams with innovation and technical excellence to provide businesses, government organisations and our partners with a better network experience that can power the UK's digital future. We do it with a spirit of collaboration, partnership and integrity that means we can achieve more,

together. All this is delivered through our UK-wide 34,000km network, offering a wide range of products and integrated solutions including leading edge WAN, Ethernet, Optical and Dark Fibre services. With over 20 years of industry knowledge and experience, you can trust us to deliver efficiencies as well as a competitive edge.

At Perth & Kinross Council we are committed to improving digital connectivity for our residents, communities and businesses.

We recognise that digital connectivity is an essential utility that can help people use social media, stay in touch with friends, access services, shop, learn and start a business. We want to ensure that we

have world-class digital connectivity and that's why we are keen to expand our fixed fibre and wireless networks to as many premises as possible so that everyone who wants to, has access to the internet.



# Our Perth and Kinross network

Over the last few years Neos Networks has been heavily investing in fibre asset in order to extend its network reach across the UK.

In 2020/21 Perth & Kinross Council asked us to deploy a new Full Fibre network across Perth to connect 34 public sector buildings as part of the UK Government Local Full Fibre Network (LFFN) programme, which was also part-funded by the Tay Cities Deal. This network, built in Perth city centre and extending out to the west of Perth, uses some of the Councils own 10km of duct, together with Neos Networks duct. This network of duct and fibre, extending to over 20km, gives other network operators the opportunity to gain access to connect local businesses and residential homes to gigabit capable broadband in a cost-effective manner. A further 102 buildings in the wider Perth and Kinross area have also been connected to Full Fibre as part of the LFFN project. The Council and Neos Networks have reciprocal IRU agreements over the use of the duct and fibre for the next 20 years.

Perth is in the centre of Scotland, less than one hour's travel from Glasgow and Edinburgh with 90% of Scotland's population accessible in 90 minutes. Perth city is home to over 47,000 people, with 152,000 in the wider district and over 6,500 businesses. The Perth economy is ranked in the Top ten enterprising demographics in Scotland, with an average of 42.6 registered enterprises per 10,000 residents, putting it well above the Scottish average of 30.1. The strength of Perth's economy lies in its diversity, with a balance of large companies, public sector organisations, a broad range of small and medium-sized enterprises and many self-employed business people. Apart from Perth and Kinross Council, which employs 6,000 people, other key employers include NHS Tayside, SSE Plc, Stagecoach Group, Aviva and Perth College UHI (part of the University of the Highlands and Islands).



Perth is a rapidly growing city with a population projected to grow by 24% by 2037, with much of the new housing being planned to the west of the city where the Full Fibre network reaches. It's an ideal commercial opportunity for AltNets and fibre providers to deliver on the [UK governments commitment to provide gigabit fibre broadband to 85% of residential homes and businesses by 2025.](#)

A new £118m Cross Tay Link Road, currently under construction, will have ducts installed along its length. The Full Fibre network in Perth provides dedicated duct and fibre access within the city stretching out to Perth West allowing a connectivity provider to easily 'break-out' and deploy fibre to the home services.

The UK and Scottish Governments are committed to deliver Full Fibre and 5G coverage across the UK as quickly as possible. Full Fibre is rolling out across many denser parts of the UK and that allows the backhaul for 5G to be deployed. 5G and Full Fibre go hand-in-hand. We need them both, to deliver connectivity everywhere. We are interested in talking to operators that want to install mobile networks off the back of the Full Fibre network we have built.

### Network scope and available services



Over 20km fibre network



34 public sector buildings connected



New housing development including:

- > **Bertha Park** - up to 3,000 houses
- > **Almond Valley Village** - between 704 - 1,100 houses
- > **Perth West** - 2,210 - 3,453 houses and other uses



Network covers Perth and the west of the city in preparation for the Perth West project



Available services from Perth Exchange

- > Ethernet services up to 10Gbps
- > Optical connectivity up to 100Gbps
- > Dedicated Internet Access (DIA) up to 10Gbps
- > SD-WAN

Available services from the PoP (Burghmuir)

- > Optical connectivity up to 100Gbps
- > Dedicated Internet Access (DIA) up to 10Gbps
- > SD-WAN

This opportunity for investment provides more information regarding the available fibre network and the numbers of premises that are accessible from the network in Appendix A. We would welcome a conversation to discuss your connectivity plans and how we can work together.

# Appendix A

## Network segments

The mapping on the following pages highlights the key sites within the build and network ownership across the region.

For further detail please [contact us](#).



## PERTH CITY OVERVIEW



- Site Names**
- 2 High Street
  - Bertha Park High School
  - Carpenter House
  - North Inch Community Campus
  - Perth Exchange
  - Pullar House
  - Inveralmond Campus POP
  - Burghmuir POP
  - Kirkton Mailer Radio Site
  - Cross Tay Link project

- Network Ownership**
- Existing Neos Networks Infrastructure
  - Perth and Kinross Council
  - Neos Networks

## PERTH CITY CENTRE



- Site Names**
- 2 High Street (PKC Data Centre)
  - Carpenter House (PKC Data Centre)
  - Perth Exchange
  - Pullar House (PKC Data Centre)

- Sites**
- Neos Networks POPs
  - PKC Data Centres
  - PKC Sites

- Network Ownership**
- Existing Neos Networks Infrastructure
  - Perth and Kinross Council
  - Neos Networks



## PERTH NORTHERN SECTION



**Site Names**

- Bertha Park High School
- North Inch Community Centre
- Inveralmond Campus POP

**Sites**

- Neos Networks POPs
- PKC Sites

**Network Ownership**

- Existing Neos Networks Infrastructure
- Perth and Kinross Council
- Neos Networks



## BURGHMUIR POP



**Site Names**

- 2 High Street
- Bertha Park High School
- Carpenter House
- North Inch Community Campus
- Perth Exchange
- Pullar House
- Inveralmond Campus POP
- Burghmuir POP
- Kirkton Mailer Radio Site

**Sites**

- Neos Networks POPs

**Network Ownership**

- Existing Neos Networks Infrastructure
- Perth and Kinross Council
- Neos Networks



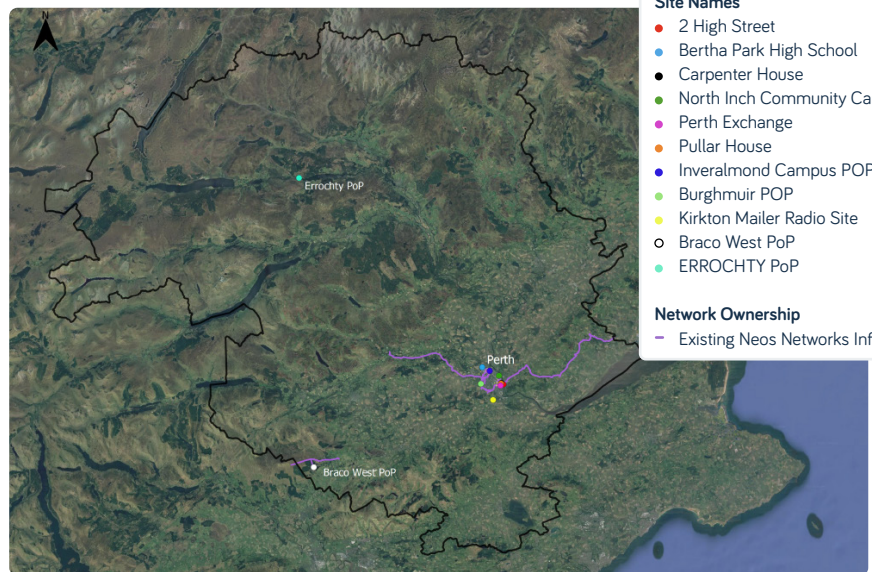
**FULL BUILD INCLUDING EXISTING NEOS NETWORKS INFRASTRUCTURE**



- Site Names**
- 2 High Street
  - Bertha Park High School
  - Carpenter House
  - North Inch Community Campus
  - Perth Exchange
  - Pullar House
  - Inveralmond Campus POP
  - Burghmuir POP
  - Kirktion Mailer Radio Site
- Network Ownership**
- Existing Neos Networks Infrastructure
  - Perth and Kinross Council
  - Neos Networks

0 2.5 5 7.5 10 km

**PERTH AND KINROSS COUNCIL AREA WITH NEOS NETWORKS FIBRE EXTENT OVERVIEW**



- Neos Networks POPs
- Site Names**
- 2 High Street
  - Bertha Park High School
  - Carpenter House
  - North Inch Community Campus
  - Perth Exchange
  - Pullar House
  - Inveralmond Campus POP
  - Burghmuir POP
  - Kirktion Mailer Radio Site
  - Braco West PoP
  - ERROCHTY PoP
- Network Ownership**
- Existing Neos Networks Infrastructure

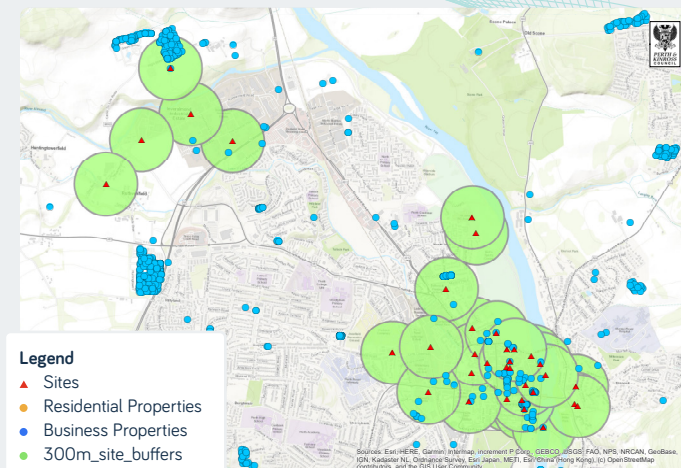
0 10 20 30 km



Part of the Department for Digital, Culture, Media & Sport's (DCMS) aim for Local Full Fibre Network (LFFN) connecting public buildings is to enable the onward connections to neighbouring premises. From the Perth network there are a large number of premises that are 'addressable' for connections.

## Premises addressable within 300m (including under construction)

- > 6,574 residential premises
- > 1,419 business premises



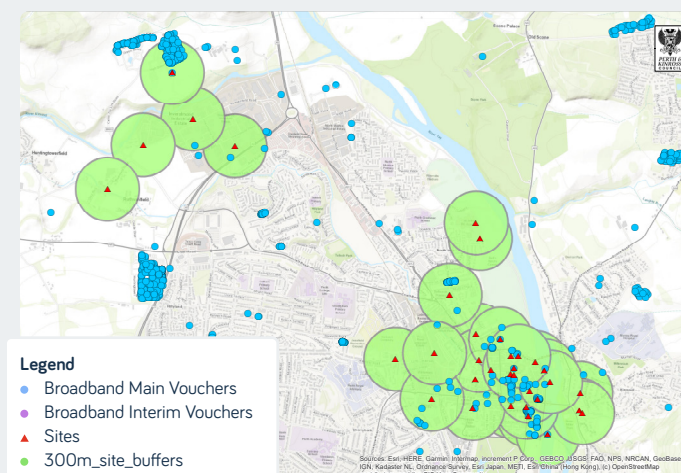
The Scottish Broadband Voucher Scheme (SBVS) enables suppliers to claim subsidy vouchers for bringing broadband to homes and businesses that may otherwise be missed in the rollout of the main contracts for the R100 programme.

There are also 'one-off' vouchers, worth up to £5,000 to help deliver a permanent broadband connection to those properties for which there is no roll-out of superfast broadband planned. In some cases, rural addresses may be able to combine Scottish Government funding of up to £5,000 with funding from the UK Government's Gigabit Broadband Voucher Scheme (GBVS), which provides £1,500 for rural homes and £3,500 for rural businesses.

There are many hundreds of vouchers available to suppliers who may wish to connect the eligible premises close to the Perth network.

## Premises passes with broadband vouchers

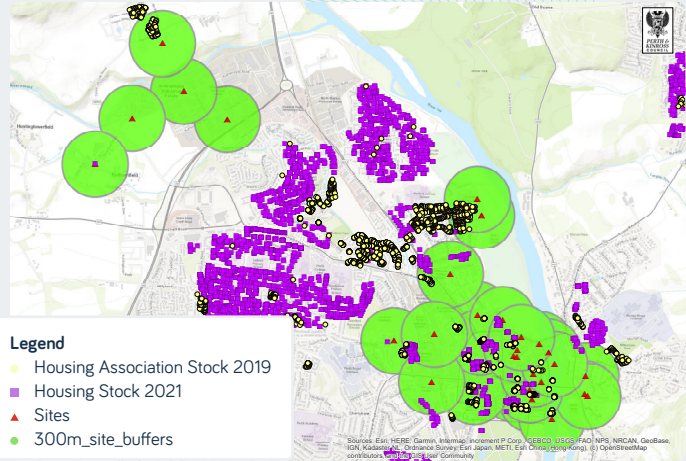
- > 223 with SG Main Broadband Vouchers (£5,000) = £1.115m
- > Or more if combined with UK Gigabit Broadband Vouchers



Perth & Kinross Council currently own and manage over 7,000 social housing properties, of which more than 5,500 of these social housing premises are in the broad area covered by the Perth LFFN network and therefore potentially eligible for SBVS main vouchers.

## LFFN sites and social housing

- > 2,380 PKC social housing
- > 3,209 P&K housing association

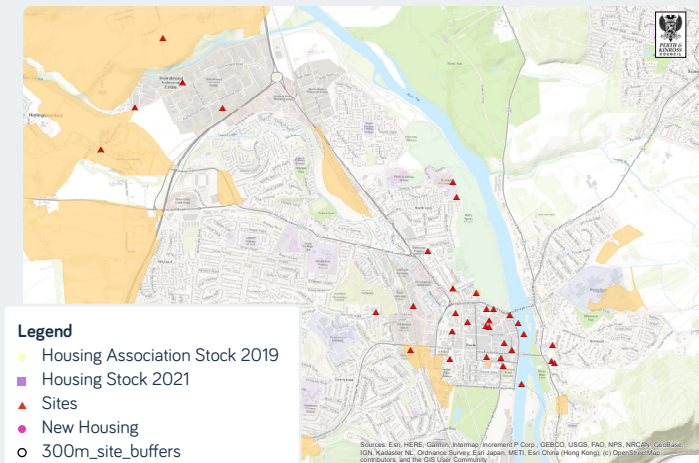


Perth is a rapidly growing city and there are a number of new developments that are either in progress or planned. Principal amongst these are Bertha Park shown in pink where 3,000+ homes are planned with over 250 already built. Up to 1,100 new homes are also planned at Almond Valley Village.

Perth West is a longer term large scale mixed use development area with up to 3,500 homes planned.

## LFFN sites and new housing

- > Bertha Park (under development) — up to 3,000 houses over 178 ha area
- > Almond Valley Village — between 704 - 1,100 houses are anticipated over 150 ha area
- > Perth West, this is a longer-term development with 2,210 - 3,453 houses (and other uses) anticipated over approximately 262 ha area



If you'd like to register an interest in this network, please contact **Jamie Egan**, Regional Development Director, Neos Networks on [jamie.egan@neosnetworks.com](mailto:jamie.egan@neosnetworks.com) or 07823 784885.



### About Neos Networks

Neos Networks provides class-leading connectivity and data centre services that deliver very high performance, cost efficiency and a competitive edge.

The company operates a 34,000 km private telecoms network and an estate of 90 commercial data centres that span the UK. With its extensive telecoms and data centre operational expertise it offers commercial security with unrivalled in-house engineering resource.

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