Broadband Infrastructure delivery in Darlington 2012-2020









Broadband Infrastructure delivery in Darlington 2012-2020

Brief introduction:

- 1. Broadband and Policies
- 2. BDUK and Public Funding
- 3. Darlington Rollout (Public / Rural / Commercial)
- 4. The future Investments

Essential jargon buster:

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4U (4<sup>th</sup> Utility)
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BB (Broadband)

mbsec (megabits per second) \neq (Megabyte + size)

Superfast (24mbsec UK / 30mbsec EU)

Ultrafast (Speeds over 100mbsec)

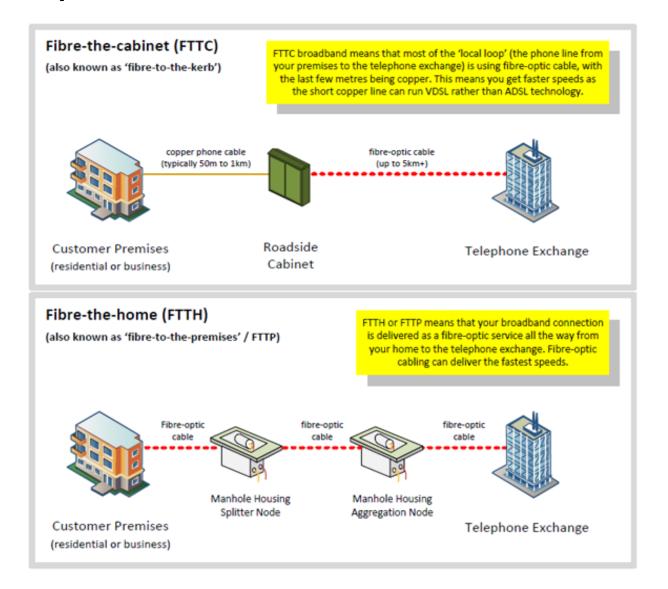
5G (5th Generation Mobile Broadband)

ISP (Internet Service Provider)

NGA (Next Generation Access)

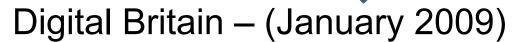
FTTC (Fibre to the Cabinet) Ofcom: 2014

FTTP (Fibre to the Premises)



Policy

DIGITAL Europe- Europe 2020 (2007)





Implementation

"Broadband for all" Budget 2010 (6bn - 90% Superfast 2017)

"Superfast Broadband Programme" (Broadband tax / 530m BDUK)

(continued)

Superfast Extension Programme (SEP) £250m (2014)

Universal Service Obligation (2015) 100% access over 10mbsec by 2020

EU Digital Objectives 2025 (2016)

- 100% access 100mbsec 50% access business 1gbsec 2025)
- WIFI 4EU (free Wifi for all citizens)
- 5G coverage

2016 Autumn Budget

- £0.7bn 5G and FTTP
- £400m Phase 3 Superfast by 2020 (Digital Infrastructure Fund)

BDUK and Public Funding

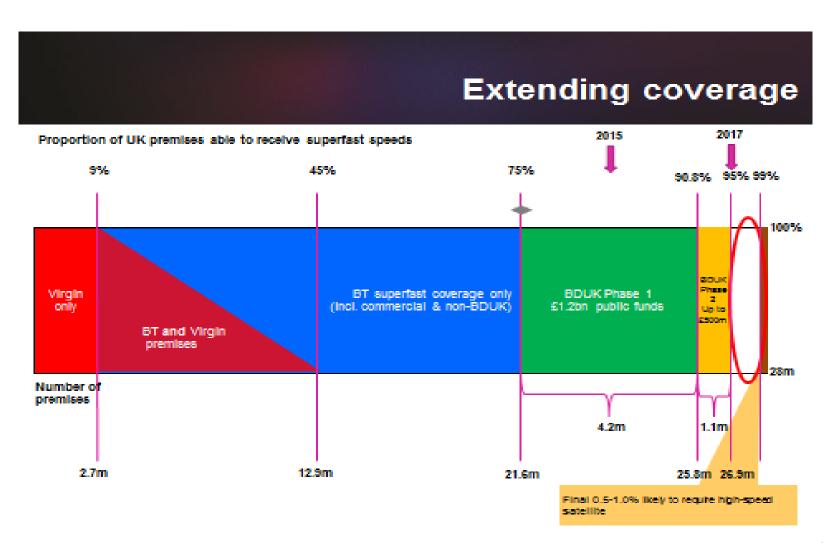
Broadband Delivery UK (BDUK)

https://www.gov.uk/guidance/broadband-delivery-uk

Targets:

- 1. Superfast broadband coverage to 90% of UK by early 2016
- 2. Universal 2mbps standard broadband access by end of 2015
- 3. Superfast broadband to 95% of UK by 2017
- 4. Developing options to extend superfast broadband coverage beyond 95% from 2018
- 5. Provided over 90,000 connection vouchers to SMEs

BDUK Aims



2) BDUK and Public Funding

Public Funding:

6bn (2010) – 3.2bn (2012)

Involvement of Local Authorities

BDUK offer of budget based on need / connectivity for each Local Authority

Local Broadband Strategies

Local Broadband Delivery Programmes

3) Darlington Rollout

Public:

Tees Valley Broadband Plan (TVU)

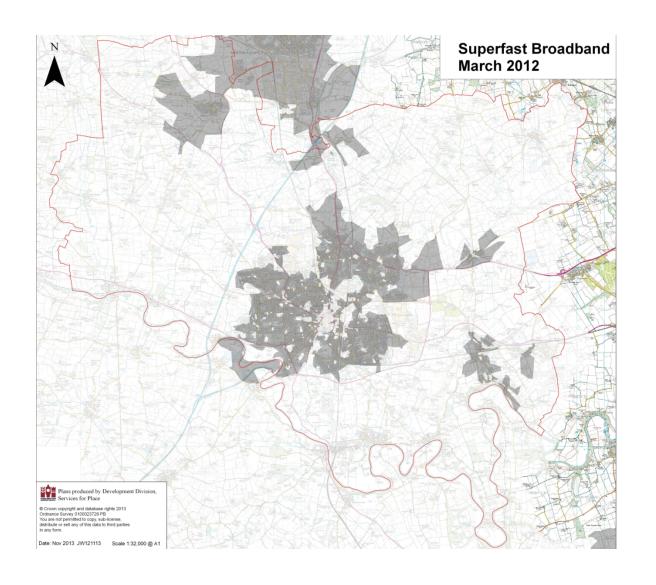
Aim: providing a detailed assessment of where the public sector might be best placed to intervene in order to extend superfast fibre broadband to all premises in the sub-region.

BDUK allocation £770k (for DBC £160k)

Digital Durham Programme



BT Openreach (Provider)



3) Darlington Rollout

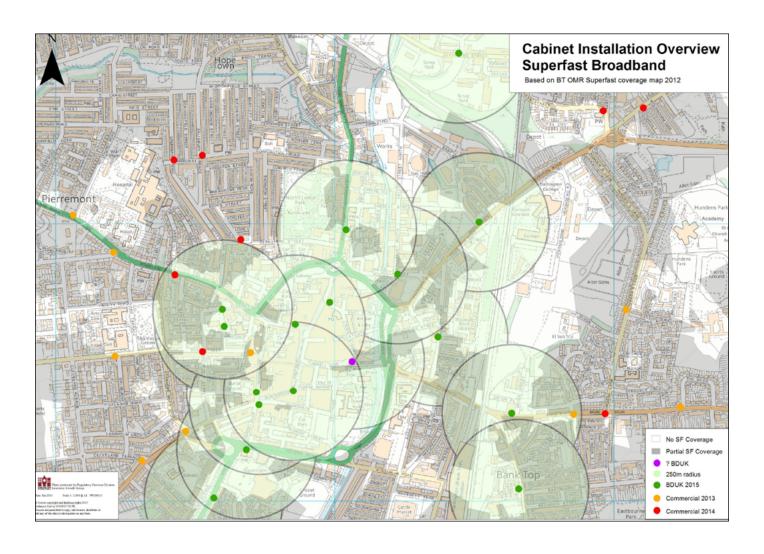
Phase 1: Digital Durham Programme 2014-2016

Targets: Town Centre / Enterprise Zones

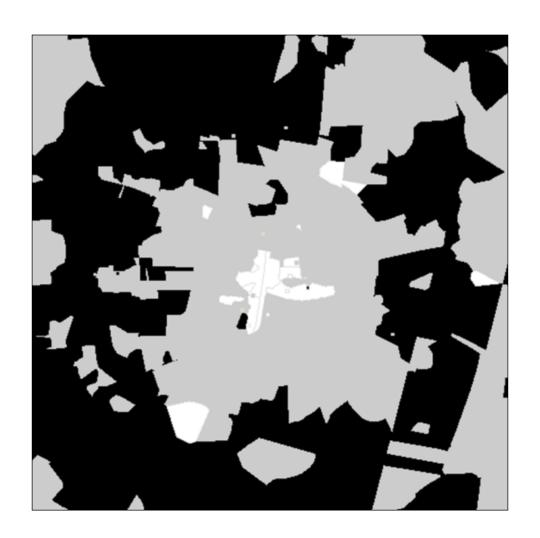
19 cabinets in Darlington TC / 4 Rural (Mar 2016) (2k premises)

89% Superfast coverage 2012 - 93.5 % Mar 2017

Darlington Town Centre coverage



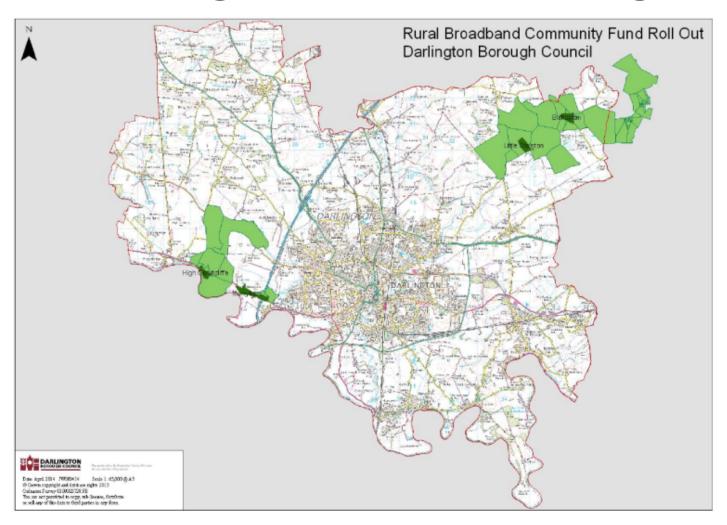
Darlington Town Centre coverage

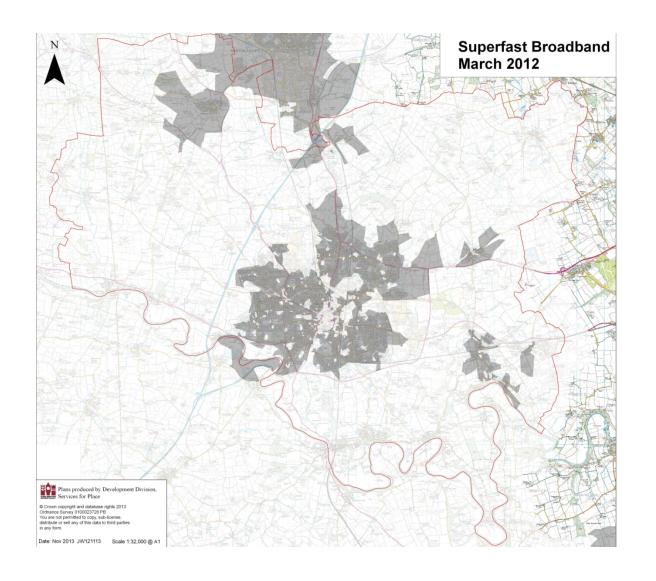


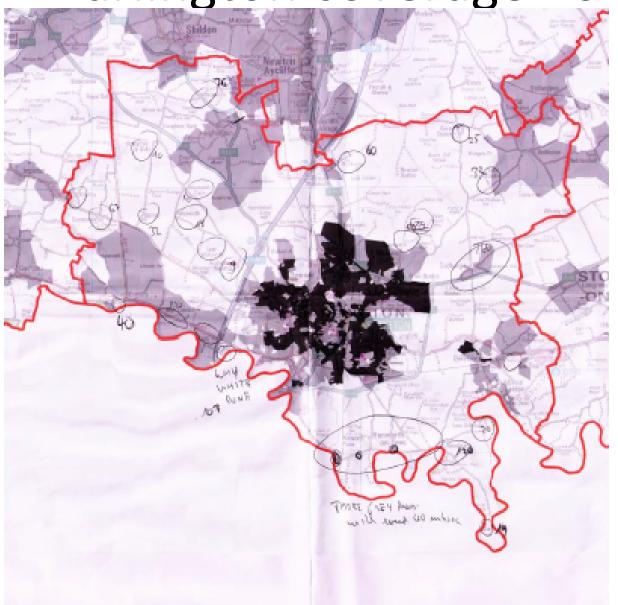
Darlington Cabinets

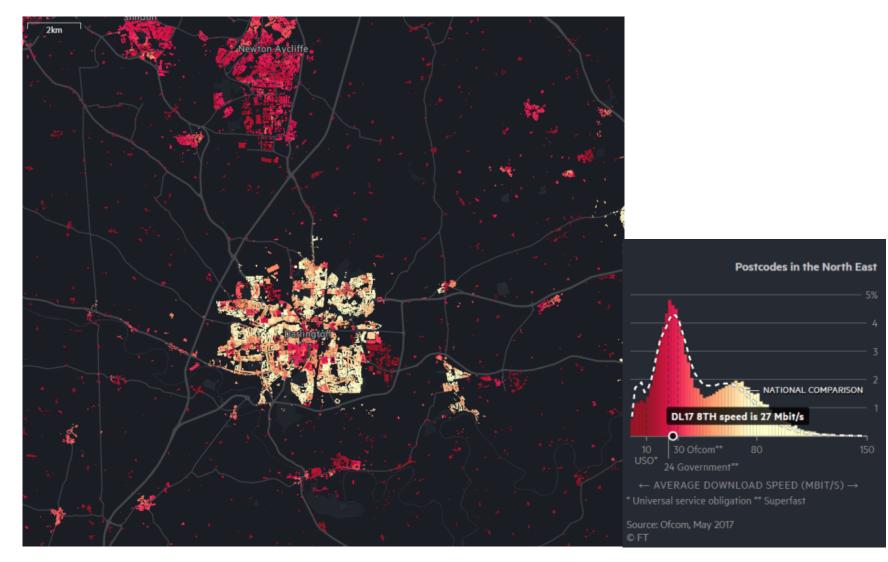


Darlington Rural coverage

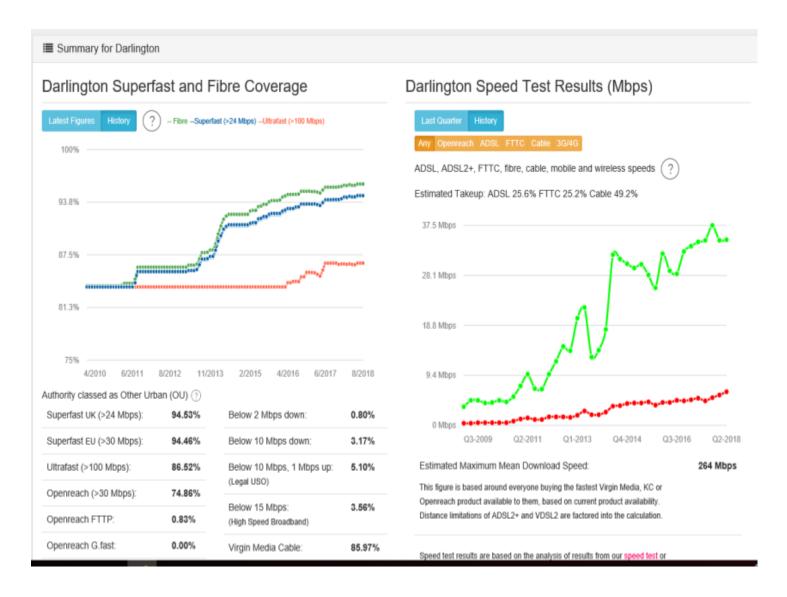












Public:

Phase 2 BDUK: Digital Durham Programme 2017-2020

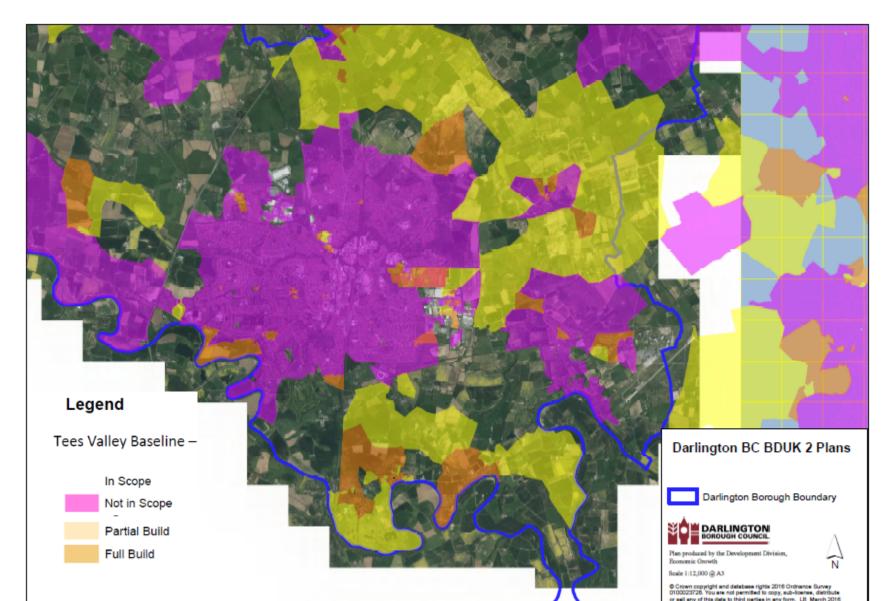
TVCA funded: £1m Targets Darlington (focus rural)

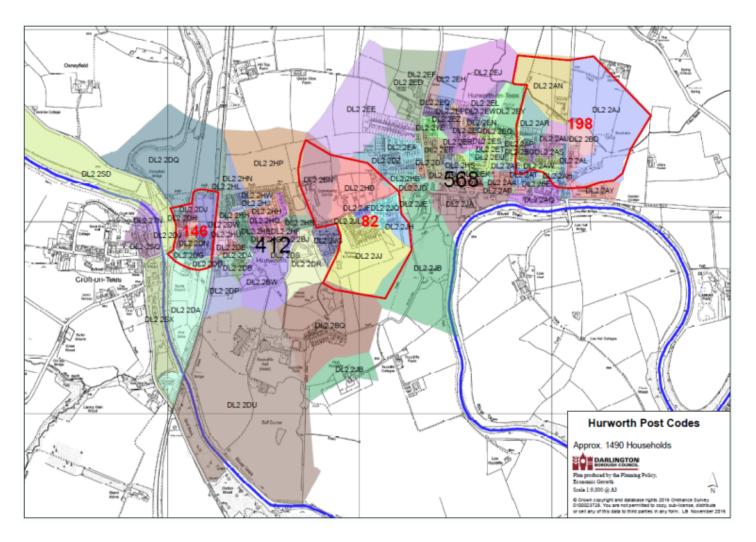
Aim: 98.1% coverage

Phase 3 BDUK: Programme 2020-

Aim 100% coverage: Targets (Sparse rural hamlets and individual farms) (innovative efficient technology)

TVCA Ambitions: Local Full Fibre Network (LFFN) / 5G Trial and Testbeds / Gigabit Connection Vouchers





Private:

Virgin Media £3bn "Project Lightning"

Mobile Broadband (4G and 5G)

Large Development Sites (residential / business by developer and during construction)