

Presentation to
Mid Ulster District Council,
Development Committee

Shane Campbell, ICBAN, 15/3/2018









ICBAN PRIORITIES Policy – Funding - Technology

- 1. Ensure best technological provisions for each area of the Central Border Region 'Future proofing'!
- Monitor and encourage delivery on National Broadband Plan
- Change narrative in NI to Fibre to the Premise (FTTP) (from Fibre to the Cabinet, FTTC) and drive an investment solution
- 5 reports completed with The Bit Commons, 2016-2018









TOWARDS THE 4TH INDUSTRIAL REVOLUTION in communications, creative industries, renewable energy, research and innovation

21C NETWORK SERVICES

Symmetric

IM Collaborative Computing IoT Collaborative Manufacture TXT 3D Design & Manufacture B₂B Sustainable Supply Chains C₂B Sustainable Production C2C Sustainable Recycling eMail Distributed Intelligence TeleCare Distributed Computing eTrading Video Conferencing Telephony Social Networking **TeleSurgery** Virtual Computing **TeleTraining** Cloud Computing **TeleMedicine** Sensor Networks Tele Education Logistics Control TeleMaintenance Home Working **Audio Conferencing** Mobile Futures Collaborative Supply Virtual Storage Collaborative Design Collaborative Games Photo Albums Collaborative Working Video Albums Collaborative Farming Virtual Office Collaborative Research **Smart Cities** Collaborative Production ????

Asymmetric

Broadcast TV
Broadcast Radio
Video on Demand
Audio on Demand
Music on demand
TeleInspection
TeleControl
????

The UK lost a >>£3Bn computer gaming industry to SEA due to the lack of bandwidth and connectivity

An initial 'Straw Man' listing Peter Cochrane 1/9/15







FIBRE TO THE CABINET FTTC

Local Telephone Exchange



Fibre Optic Cable





Copper Cable

FIBRE TO THE PREMISES / HOME FTTP / FTTH

Local Telephone Exchange



Splitter

Fibre Optic Cable



THE EU COMMISSIONER GETS IT – Decent Fibre can Revolutionise Rural Living





Provision of world-class connectivity in rural areas creates an equality of access to information, services and opportunities previously thought impossible

"A farmer could: instantly download his Single Farm Payment form in one corner of the screen while having a simultaneous skype call with his agricultural advisor! Meanwhile his son's band are performing live via video link-up, while his mother is being remotely treated by her specialist telemedicine carers from the clinic in the nearest big town."

(Phil Hogan, EU Commissioner for Agriculture and Rural Development, Dublin, Sept 2015)



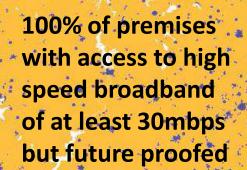


Ambitions

Source: Ireland's High
Speed Broadband Map
2016

www. broadband.gov.ie

Amber area reflects non commercial areas for high speed broadband



NI Draft Prog for Government:

Proportion of premises with access to broadband services at speeds at or above 30mbps

State-led intervention aims to serve all remaining premises not served by the commercial sector





'THE EUROPEAN GIGABIT SOCIETY'

100% households to have 100mbps access by 2025





Virtual Intensive Care Unit



WITH BETTER CONNECTIVITY, WHAT WILL WE BE ABLE TO DO IN 2025?



Timeline of Initiatives

- Senior Adviser to EU Commissioner visits Region (November 2015)
- Report 'Fibre at a Crossroads, Part I' (June 2016)
- Engagements with stakeholders and political representatives (2016-2017)
- 40+ Assembly Questions raised (2016-2017)
- Ministerial Proposals for rolling out direct fibre connections across whole of NI (end 2016)
- Westminster Parliamentary and Select Committee Questions raised via MPs (early 2017)
- Report 'Fibre at a Crossroads, Part II The Need to Confirm BT's Capital Contribution in NI's Subsidised Broadband Infrastructure' (June 2017)
- Methodology of Part II Report copied by Vodafone UK (June 2017)
- Report 'Ireland's National Broadband Plan: Delivering on the Promise' (July 2017)
- Engagement with OFCOM Board (Sept 2017)
- Comptroller & Auditor General, NI Audit Office agrees to preliminary investigation of BT capital Contributions (October 2018)
- Report 'Towards an All-Fibre Access Network Proposals for the £150 million' (Nov 2017)
- Engagement with COMREG Chair (November 2017)
- Engagements with stakeholders and political parties on £150 million funding (early 2018)
- 5th Report on Ireland's NBP (drafted February 2018) for spectrum consultations later 2018
- Correspondence with NI Secretary of State (March 2018)
- Dozen+ submissions to OFCOM, DCMS, DfE, ComReg etc.(2016-2018)









Key Messages from



- Much has indeed already been achieved and is to be commended
- Ambition: World-class connectivity
- Focus on Mid Ulster, Armagh City Banbridge & Craigavon, and Fermanagh & Omagh
- But, 30% won't access >10Mbps (the 'Universal Service Obligation')
- Drive Fibre deeper into Rural Areas
- And it can be done, technically and feasibly through 3 areas:
 - 1. Policy
 - 2. Funding
 - 3. Technology
- Findings can apply across NI









- Walshs Hotel
- Metro CCTV
- Leadon Timberframes
- Don Carraig Hotel
- Lisnaskea Business Park
- Gilfresh
- Hewitt Meats
- Emerson Electrical
- Davidson Contractors
- (Case studies in Part 1 Report)

But.....

- Are > 1200 metres from cabinet 'speed' drops
- Cannot get direct fibre from state funded cabinets
- Must pay extra for private circuit contracts
- Who's supporting them?
 - o Govt ?
 - o Regulator ?
 - o Providers?

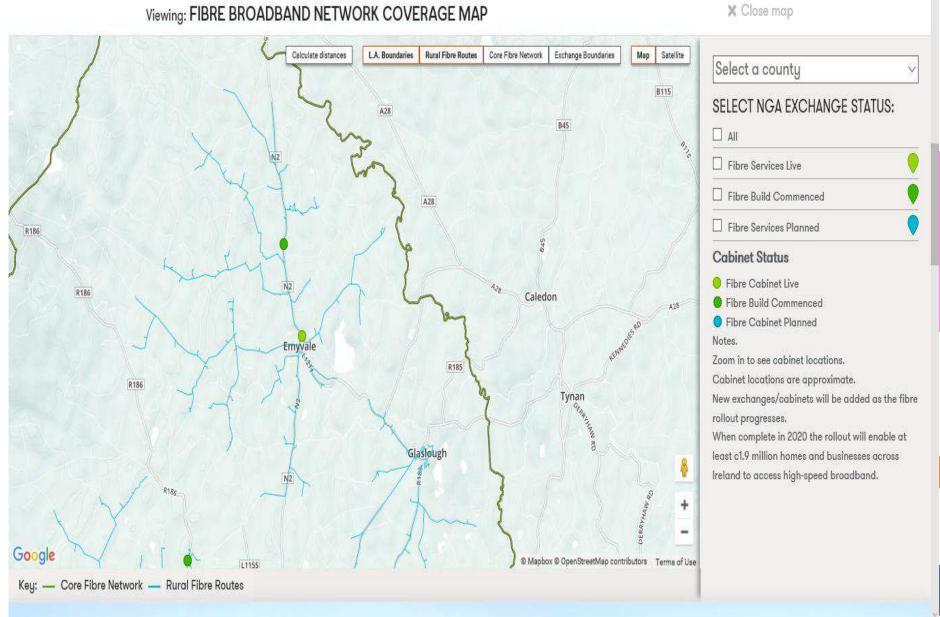






A Contrast Across the Border





Part 2 Report – Confirming BT's Capital Contribution to NI



- UK & NI Govt Ministers could not confirm direct knowledge of BT's capital contributions (publicised as £40m approx for NI)
- The Report questioned where NI Govt subsidies may have been used for areas defined by BT as 'commercial'
- Cited that BT commercially invested in cabinets serving 170
 premises passed in Fermanagh, whilst public funds have been used
 in cabinets serving more premises passed
- Recommended comprehensive audit by NI Audit Office in the public interest
- Questioned that a capital contribution of £20m-£43.5m may be owed to NI, subject to official verification
- Comptroller and Auditor General, NI Audit Office, has undertaken a preliminary investigation based on evidence





EVIDENCE OF NEW TECHNOLOGY

- FTTP Splitters in Cookstown



Tulnacross



Drapersfield Road



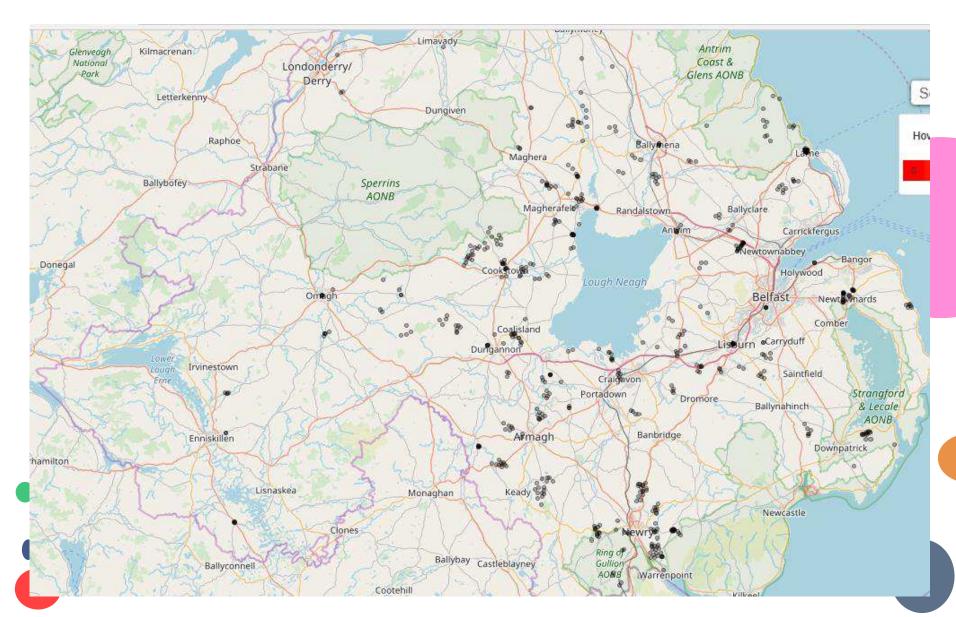








NI - FTTP Splitter Locations



Splitters used in Co. Fermanagh



1.



2.



3

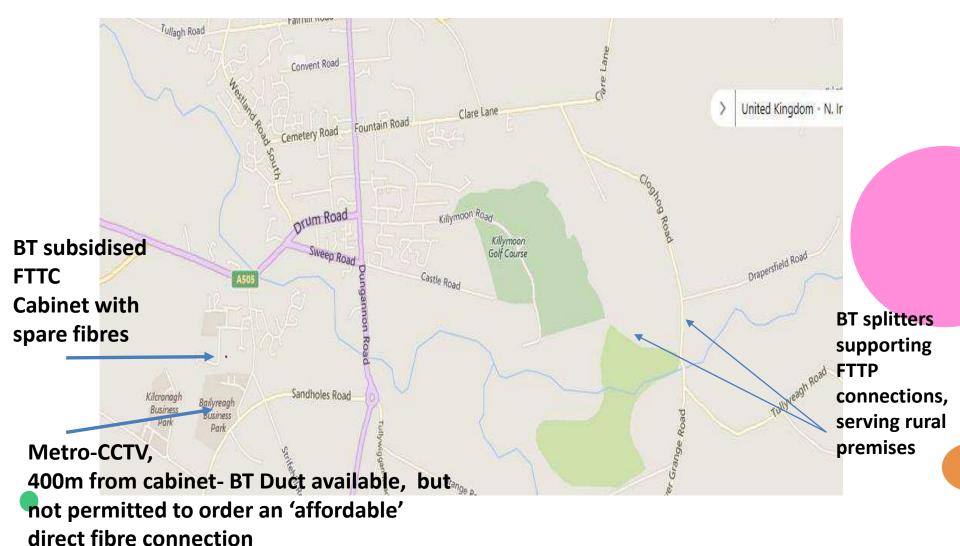


- 1. At top of lane between Oak Grove housing development and Startrite Auto Parts, with lines connecting nearby houses and business premises
- At bottom of same lane, 80 m from top of lane, with lines connecting to 2
 nearby houses from top of pole
- 3. Between Public Toilets and playgroup building and connecting to building across main road



Location - Splitter sites in Cookstown











WHERE ARE WE NOW? UK Macro Factors

- Govt and Ofcom calling for greater accountability and more fibre investment
- 10mbps 'Universal Service Obligation'
- BT owe £527m+ in capital deferral/clawback
- Direct fibre costs reducing
- £150m+ election agreement for 'Ultrafast' in NI









WHERE ARE WE NOW? £150m+ Funding Opportunity

- Narrative change:
 - 'FTTC is exhausted in NI' (OFCOM)
 - 'FTTP is the way forward for NI' (BT and Virgin Media)
 - 'FTTP is the investment solution for rural areas' (BT)
 - Current programme targeting 13k FTTP connections across NI
- £150 million funding for NI in DUP election agreement
- With match-funding this totals £270-£300 million
- To be targeted at rural areas as well as SMEs
- Don't have financial funding challenges but do have
- political challenges and institutional challenges
- Cross-Party consensus on need for investments







SO WHERE NEXT FOR THE DISTRICT & NI?

- Spent £64m in public subsidies and £??m in BT investment
- But, 30% won't access >10Mbps ('Universal Service Obligation')
- That is some 80,000 to 100,000 NI premises
- Opportunity for widespread deployment of direct fibre
- Reset Ambition: 100% availability of 'ultrafast' futureproofed broadband, to anyone who wants it in NI
- £270m-£300m spend needs political authority / ministerial oversight









BREXIT AT THE BORDER - Survey 2018

Another chance to have your say

10 minute survey on the impact of Brexit on the Central Border Region.

We welcome responses from anyone living or working in the areas of Armagh City Banbridge and Craigavon; Cavan; Donegal; Fermanagh and Omagh; Leitrim; Mid Ulster; Monaghan; and Sligo.

Survey opens 08 March 2018 and can be found at www.tinyurl.com/ICBAN-Brexit







An Roinn Gnóthaí Eachtracha agus Trádála Department of Foreign Affairs and Trade

