BT Ireland & BT Northern Ireland
Network Overview

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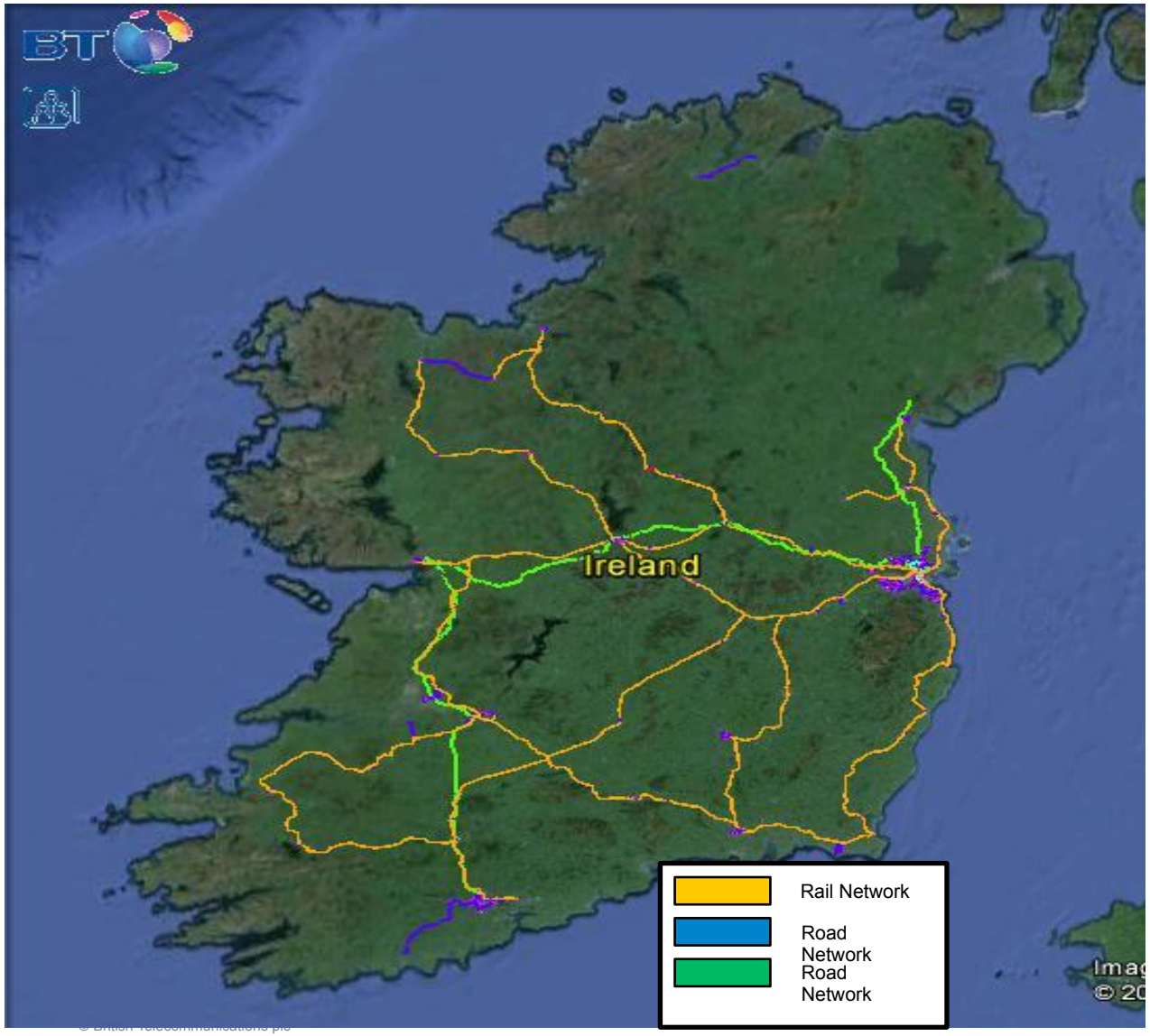
BT Ireland Fibre Infrastructure



BT Ireland

BT owns and operate a world-class fibre network with nodes in all of the major cities and regions areas of the country.

Our fibre network in ROI consists of approximately 2000 km of fibre running along the rail network and approximately 500 km of fibre along the road network

BT Infrastructure in Ireland

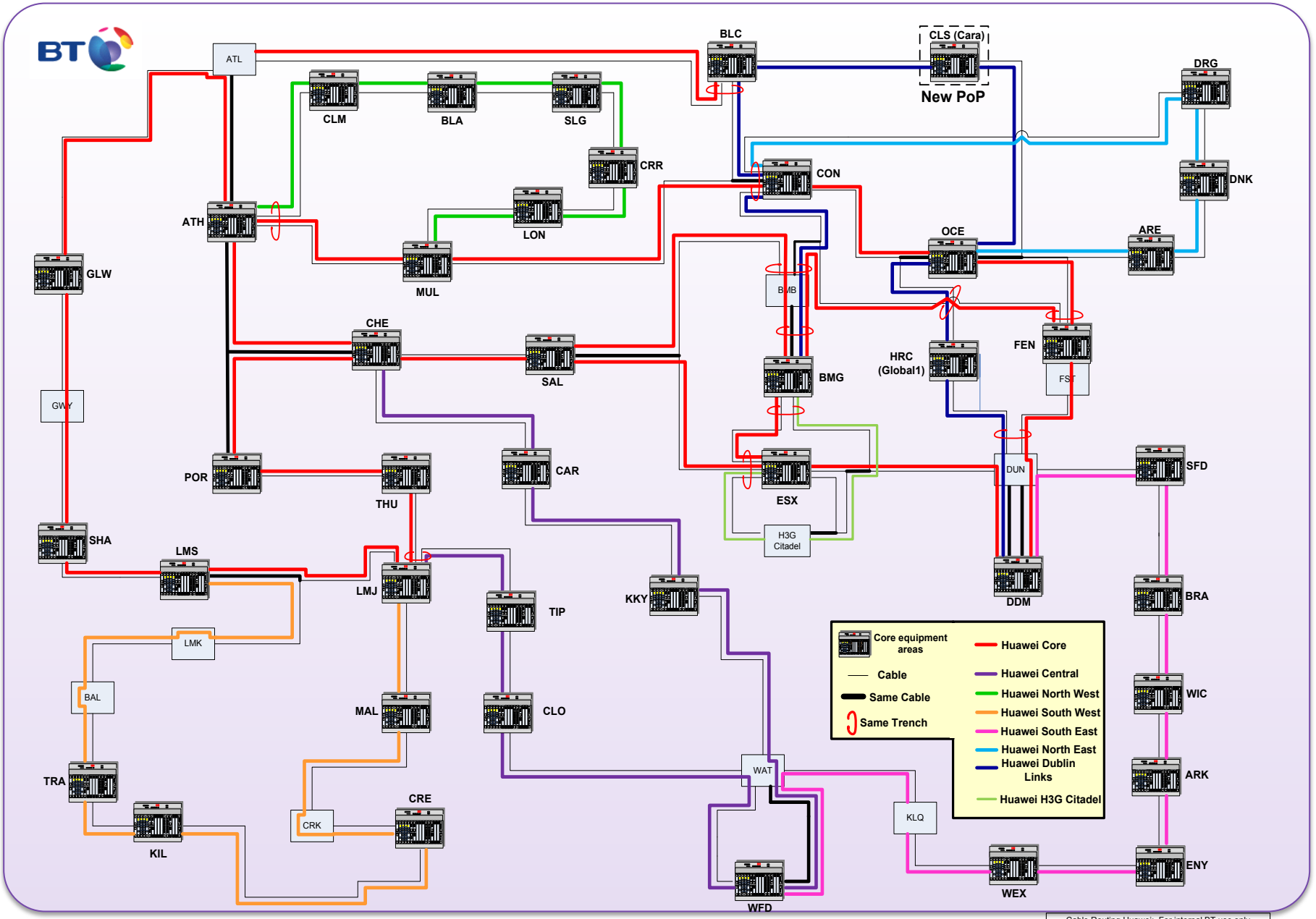
Connect Services

- 23 Service nodes in Ireland
  - 7 in Dublin, Galway, Limerick, Cork Waterford etc.
- IP/MPLS network offering L2VPN & L3VPN services
- E-Access, E-LAN, E-Line, E-Tree
- Built on Alcatel 7750
- Access speeds from 10M to 10Gbps
- EFM, ADSL, SHDSL also available
- Domestic connectivity to service platforms, Voice, Data centres
- International connectivity via BT Global Network to 177 countries.

ROI Optical Platform

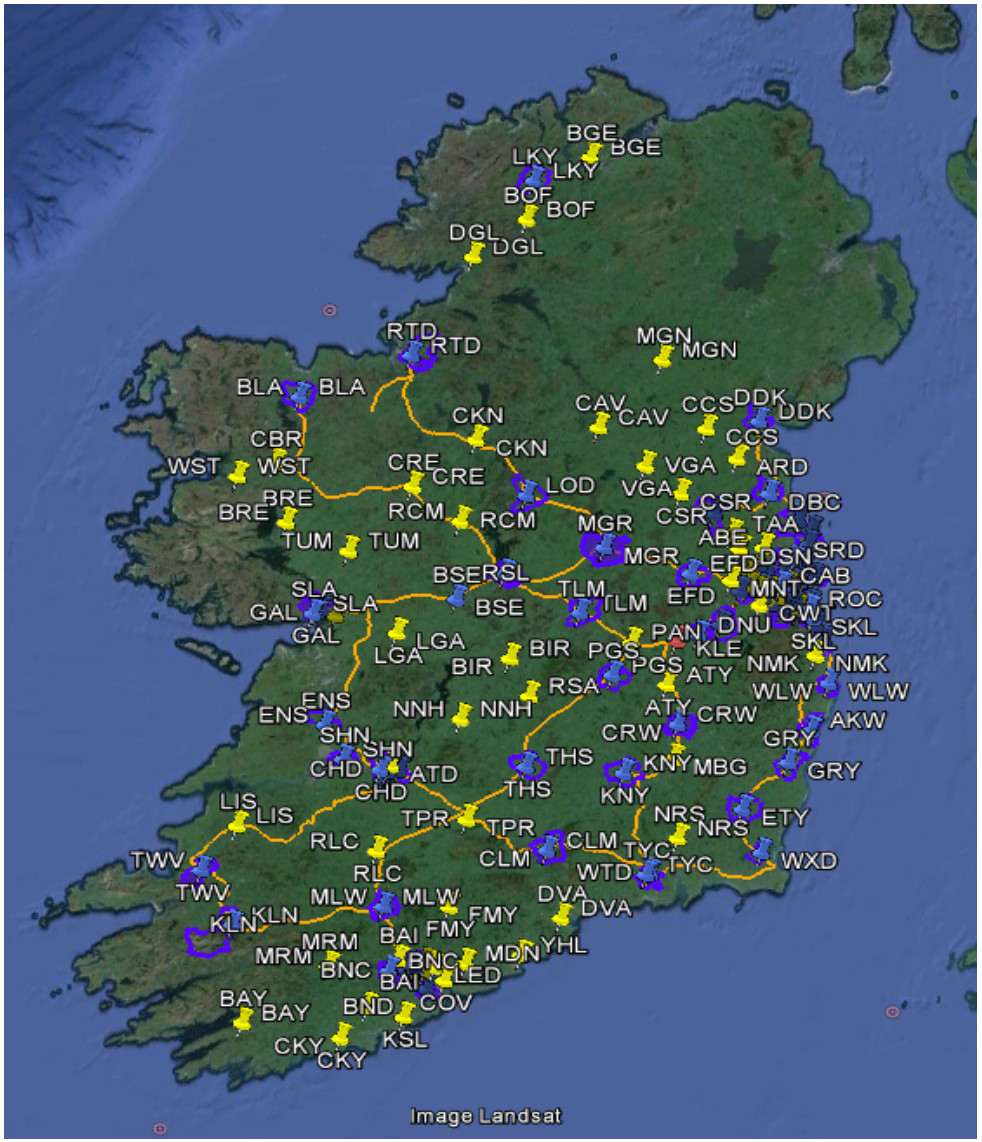
- Huawei 8800 platform
- Deployed in 43 sites around the South of Ireland
- Capable of lighting 80 channels,
  - we have demonstrated 3T per fibre on this platform in the lab
- N * 1Gbit/s or N * 10Gbit/s options facilitated
- Resilience Options (Standard, Secure & Secure +)
- Utilises ROADM

Nationwide DWDM network



Cable Routing Huawei: For internal BT use only

Eircom NGN/NGA



Aggressive roll out local loop unbundling (LLU) to bring best in class broadband services to our customers, and with 89 unbundled exchanges.

DSLAM's and Layer 2 nodes are deployed at each site.

Currently we have 40 NGN aggregation interconnects.

We use our own core network to offer great value backhaul solutions for offering NGA Superfast broadband services to our Wholesale customers

Subsea used by BT

1 Sirius North
2 Scotland NI 2
3 Scotland NI 1
4&5 BTMT1-MANX-NI via IoM
6 ESAT 2(BT)
7 Sirius South
8 CeltixConnect
9 Celtic (OOS)
10 ESAT 1

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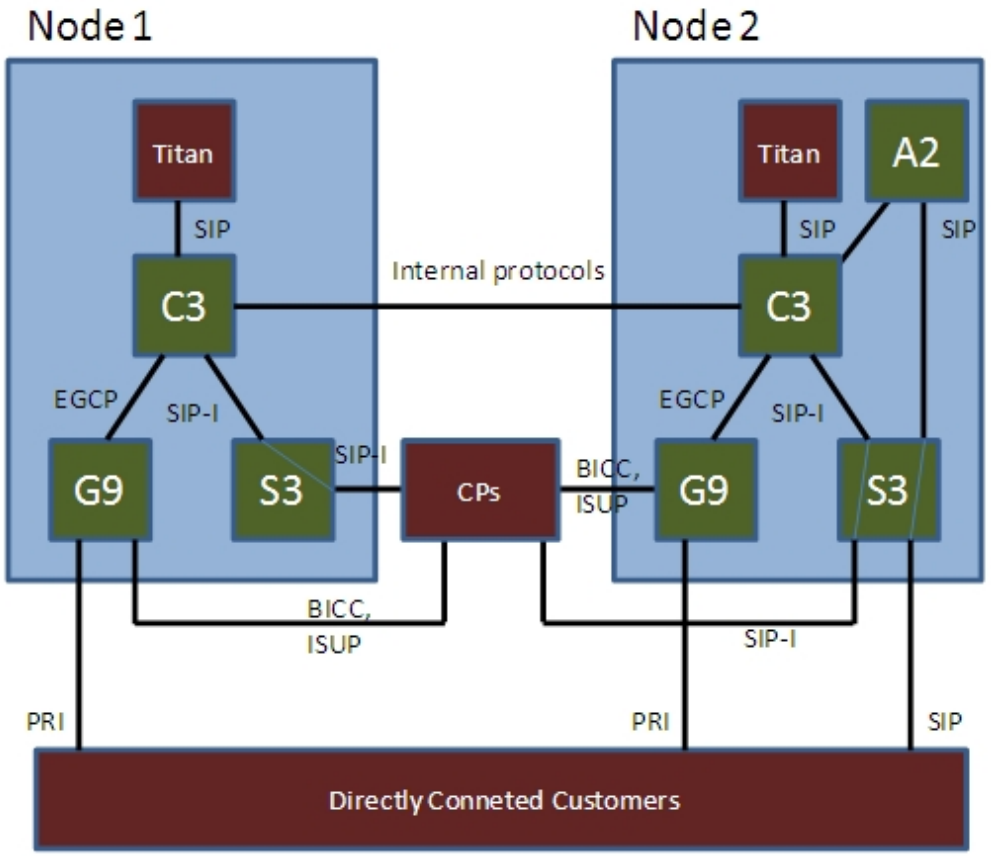
BT Ireland Voice Overview



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Northern Ireland NGA Broadband

Objective:
Next generation broadband to 88% of businesses and consumers by 2011

The challenge

- Technology neutral
- Open access / Wholesale level
- Minimum 2Mb rural
- Minimum 10Mb urban
- Equitable
- Consumer & business variants

The solution

- £48m investment
- 1,215 cabinets
- 169 exchanges
- + In-fill technologies
- Wholesale level solution – open to all service providers
- Completion - May 2011
- White label marketing

1000 businesses already using the service

Department of Enterprise, Trade and Investment
www.detini.gov.uk

European Union
European Regional Development Fund
Investing in your future

Department of Agriculture and Rural Development
www.dardni.gov.uk

rural Development Programme

'The European Agricultural Fund for Rural Development: Europe investing in rural areas'.

BT

Northern Ireland's next generation broadband journey

Mar 2009

BT announces next generation broadband investment, as part of £2.5bn UK-wide project

Balmoral, Newtownards, Bangor, and Lisburn are first locations passed by BT next generation broadband programme (279 cabinets)

Dec 2009 - Mar 2011

BT partners with DETI on Next Generation Broadband Project (£48m)

85% of businesses to be connected by March 2011. 1,215 cabinets across 169 exchange areas by April 2011

Jan 2011

Fibre contract awarded through NI Broadband Fund, includes investment by BT

Additional 23 cabinets in rural areas

Jan 2011

BT becomes first partner of Derry~ Londonderry UK city of Culture 2013

As part of the multi-million pound partnership BT will fibre enable all Derry City cabinets (110 cabinets)

Feb 2011

BT accelerates its NI rollout of next generation broadband, as part of £2.5bn UK wide project

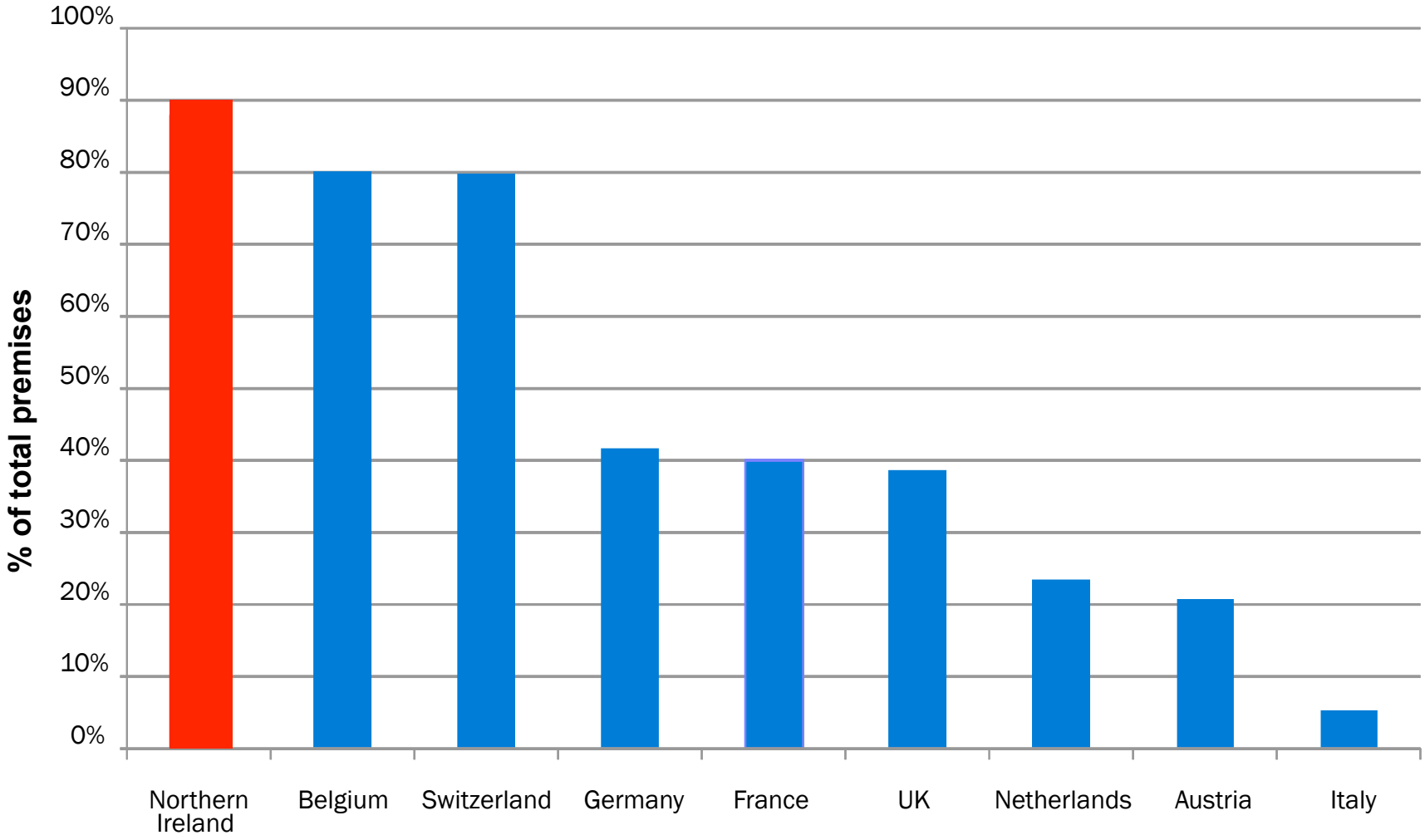
88% of Northern Ireland premises will be connected to a fibre cabinet by March 2012 (783 cabinets)

Fibre – transforming small businesses

JR ANNETT
The Fine Art of Finishing Homes

- A family business
- Based in Warren point, rural County Down
- Specialist picture framers that also run a garden centre!
- Building up business outside of Northern Ireland using their website as the main sales and engagement tool
- Fibre connection installed two months ago
- Already saving £6,000 per month in catalogue production and distribution costs
- Able to increase number and quality of graphics on the website from 50 to 1000, and starting to use YouTube to demonstrate their craftsmanship
- Improving point-of-sale experience – electronic catalogues arrive while they speak on the phone, not 30 minutes later
- Next challenge – growing the garden centre business online.

Currently Northern Ireland exceeds coverage of major European incumbent fibre deployments



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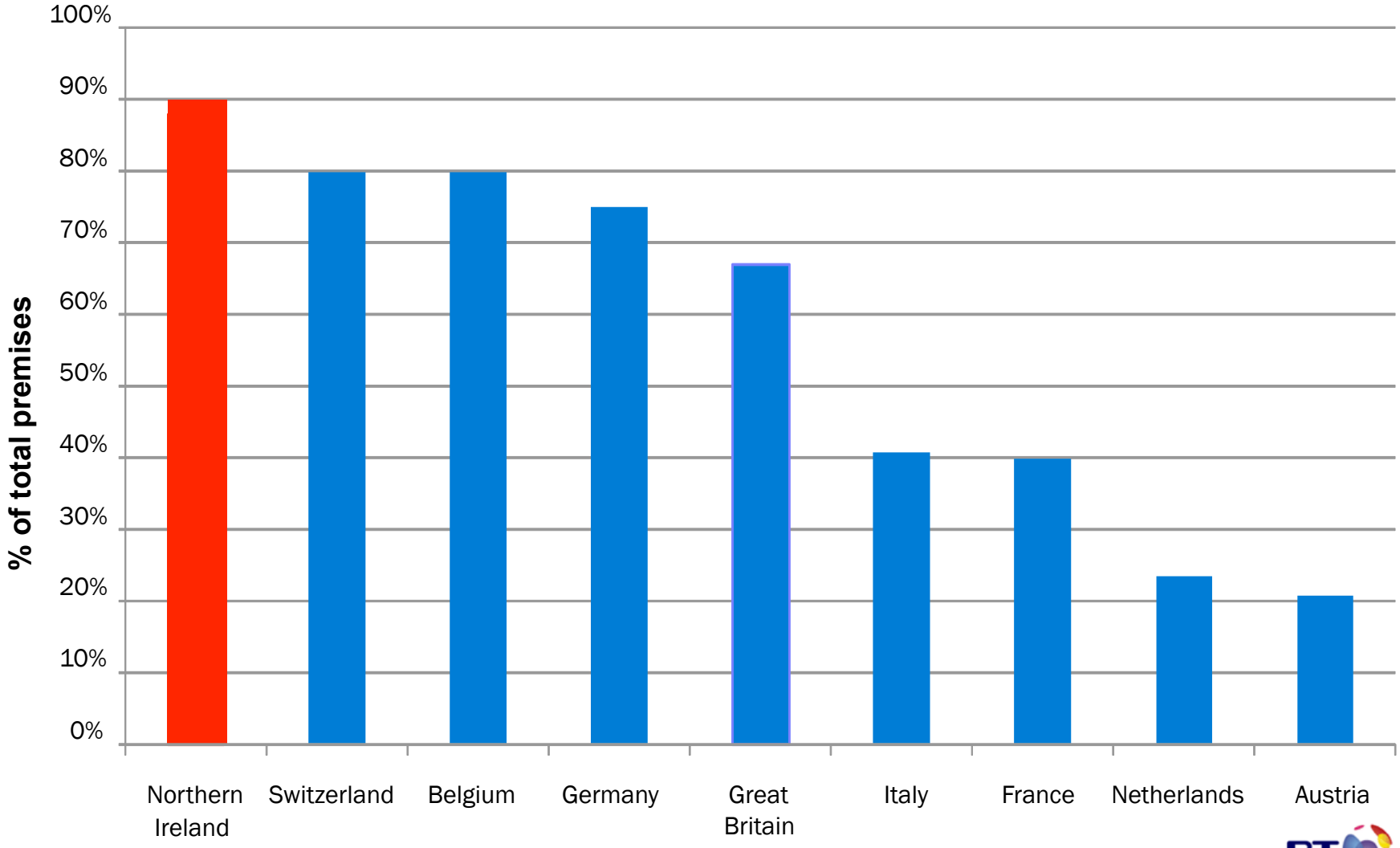
N.B. Figures used for other countries are for HHs passed and end 2012 whilst NI figure is lines passed, by March 2012 however, households with a second line in NI are low enough for a like-for-like comparison

By end of 2015, **WITHOUT** any further expansion NI will continue to exceed coverage of major European incumbent fibre deployments



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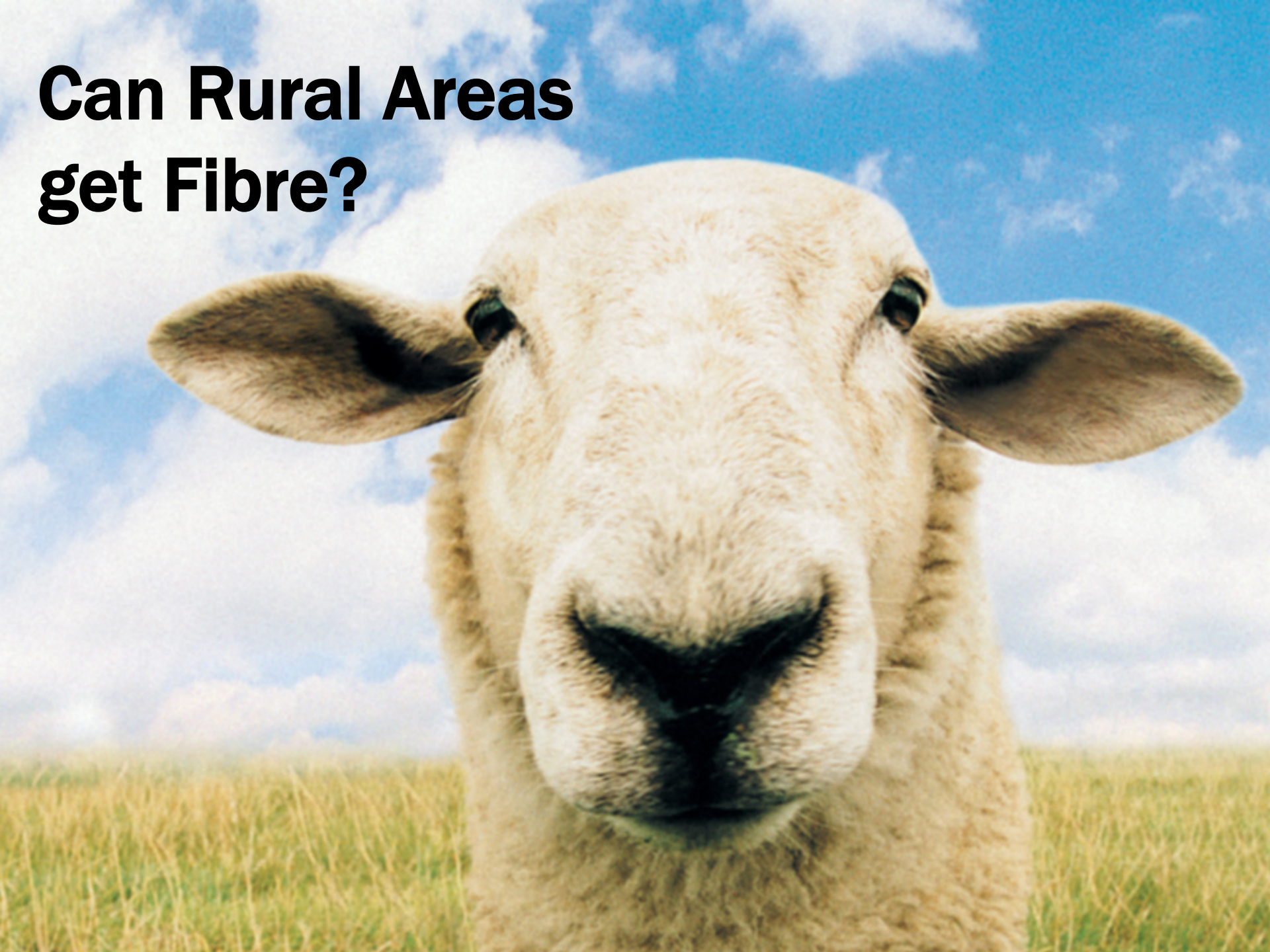
Commercial in confidence

Can Rural Areas get Fibre?



- Over 70% of new fibre cabinets provided as part of the DETI project were in rural locations.

- Over 3,500km of fibre was installed predominantly in rural areas.

SUPERFAST
Broadband Northern Ireland

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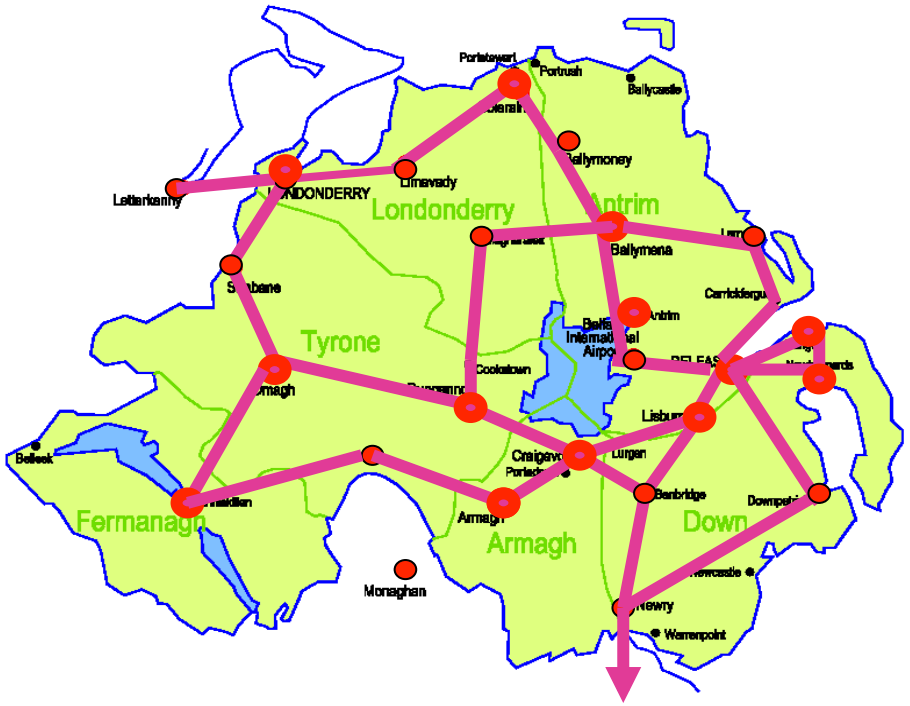
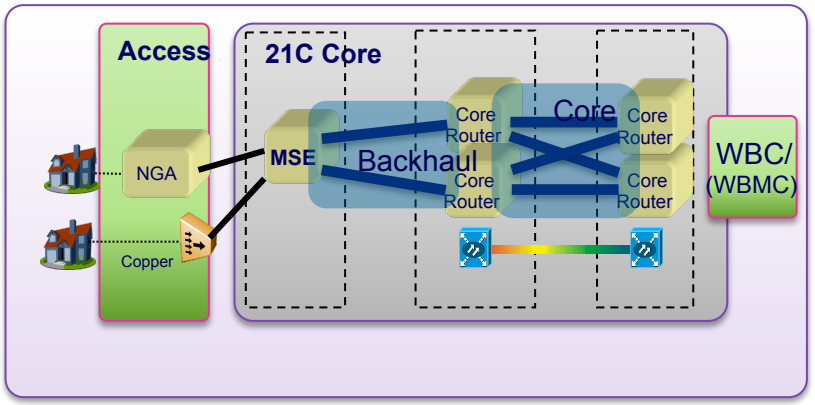
BT

Northern Ireland Now.

In Northern Ireland we have 191 exchanges

NGA roll out started early in Northern Ireland and represents one of the most dense deployments in Europe with over 2000 cabinets and over 800,000 homes passed with a third of Northern Irelands market now delivered by FTTC