



An Roinn Comhshaoil,
Aeráide agus Cumarsáide
Department of the Environment,
Climate and Communications

Rolling out fibre to the home under the National Broadband Plan

Association of Irish Local Government

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National Broadband Plan
26 March 2021

Agenda



1. NBP & Government Policy
2. Overview of Programme
3. NBP Roll Out
4. In the Community
5. NBP & Local Authorities
6. NBP Contacts
7. Q&A



NBP & Government Policy

NBP & Government Policy

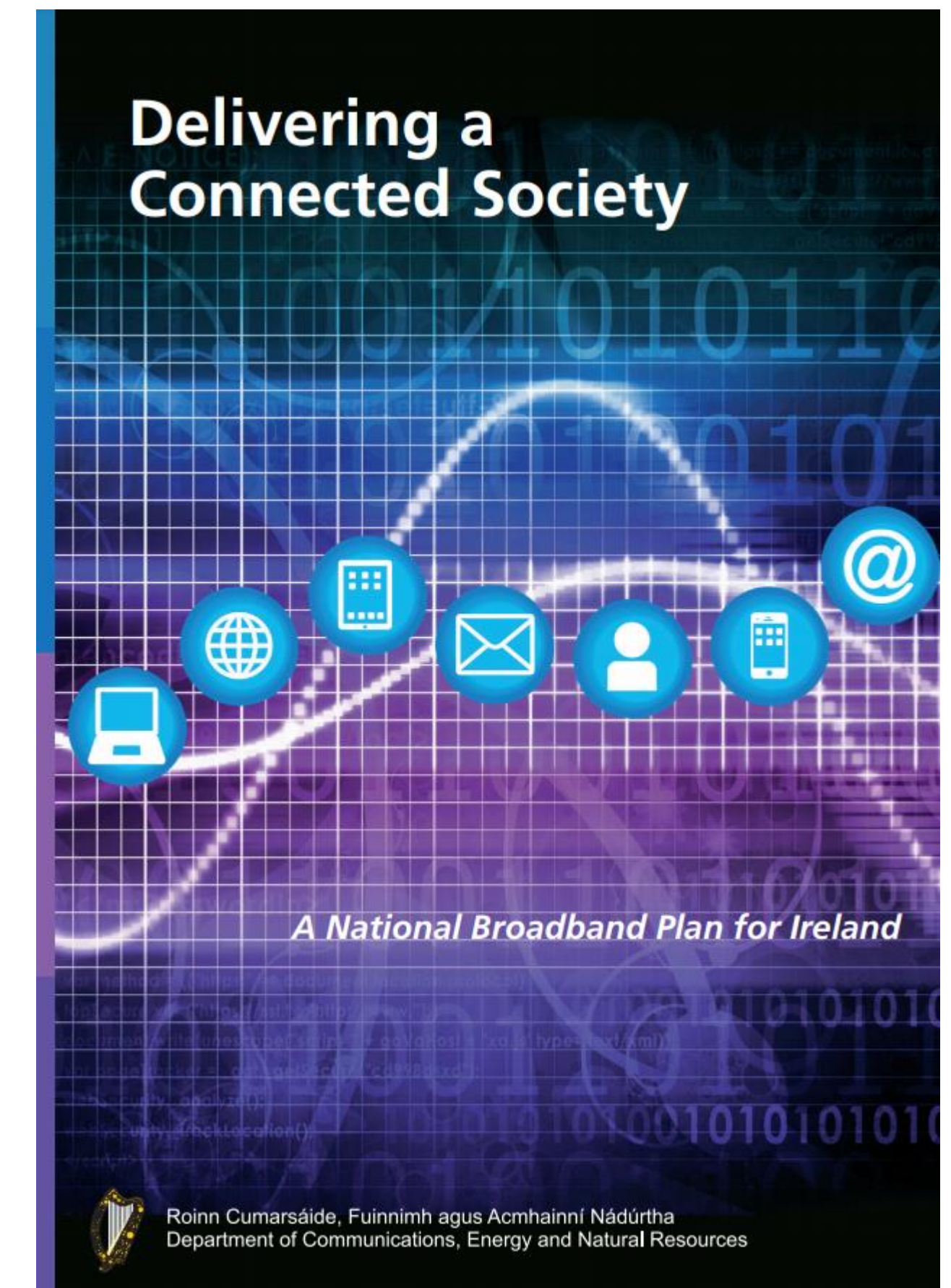


Government policy in 2012 set the compass!

All citizens and businesses in Ireland should have access to high speed broadband through:

- **Commercial investment** providing high speed broadband to majority of premises without the need for State subsidy
- **State-led intervention** aiming to ensure that the remaining premises have access to high speed broadband State subsidy where necessary

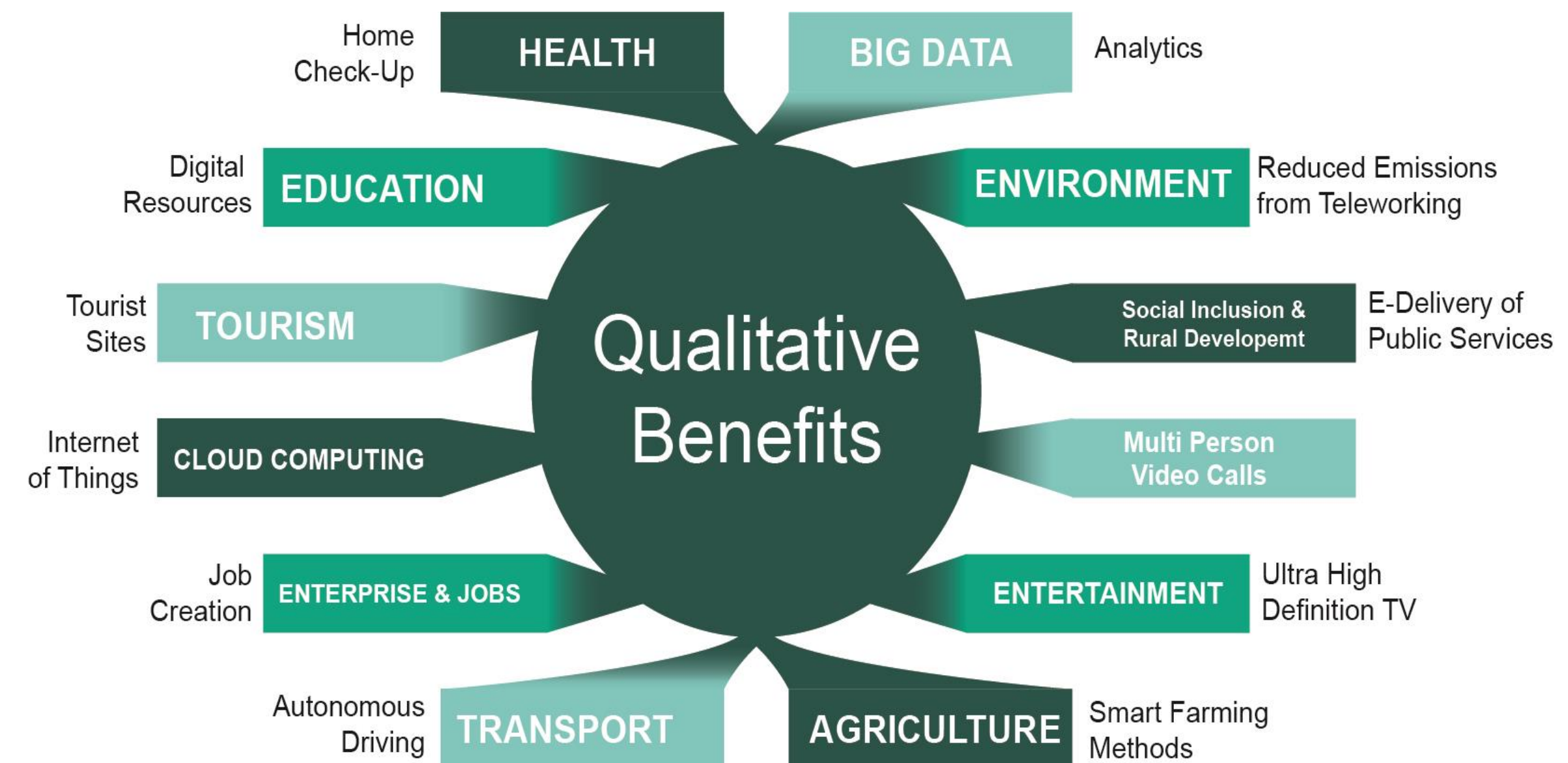
In 2012 less than 50% of premises had access to > 30Mbps



NBP & Government Policy



- Delivering high speed broadband will support the **continued development of rural Ireland, creating opportunities and attracting investment** across the country.
- An enabler of modernised infrastructure under the **National Development Plan, fostering development of new industries across Ireland** and reducing reliance on/concentration in major cities.
- Rural Electrification brought renewed investment to rural communities and ensured sustainability for generations - the NBP is the **21st Century equivalent to Rural Electrification**.
- As part of the **Remote Working Strategy**, the NBP can help **increase employment** in rural areas, **reduce commute times** and congestion, and re-invigorate rural Ireland.
- **Covid-19** has changed the face of work, business, education and entertainment. The **NBP will contribute to creating infrastructure that meets the needs digital needs for decades to come**.



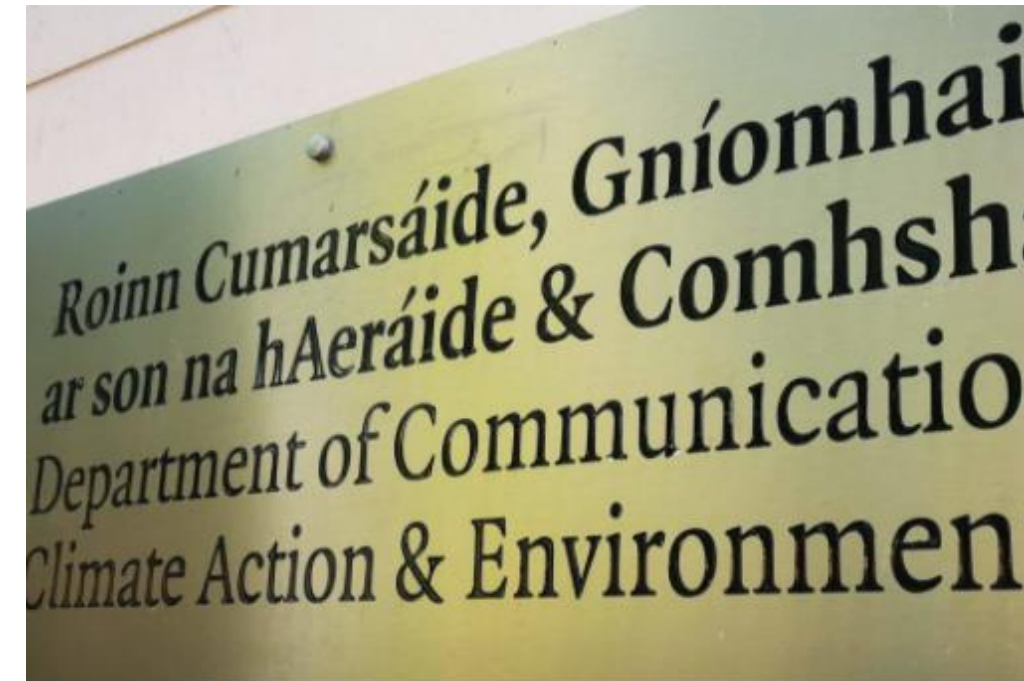


Overview of Rollout

Programme background



Government Contract was signed on 19 November 2019 with National Broadband Ireland (NBI).



DECC is responsible for oversight of the 25-year contract.



The NBP is the largest infrastructural project in the State, covering 96% of Ireland's landmass.



A network of over 900 strategic connection points (incl. over 600 schools) being passed in the community by end of 2023.



In parallel, a fibre network is being deployed to pass all in-scope premises by the end of 2026.



Detailed work is ongoing to seek to accelerate the current timelines.

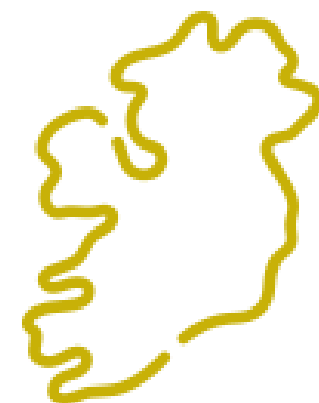
NBP intervention



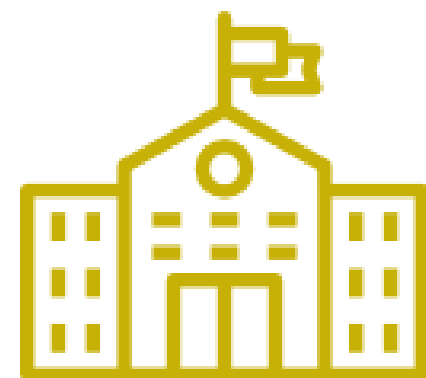
**Across 100,000km
of road**



**1.1m citizens
(23% population)**



**458,000 of the
working population
live in IA**



**Over 600
schools**



**Over 290
Broadband
Connection Points**



**Over 44,000
businesses (mostly
small and micro)**

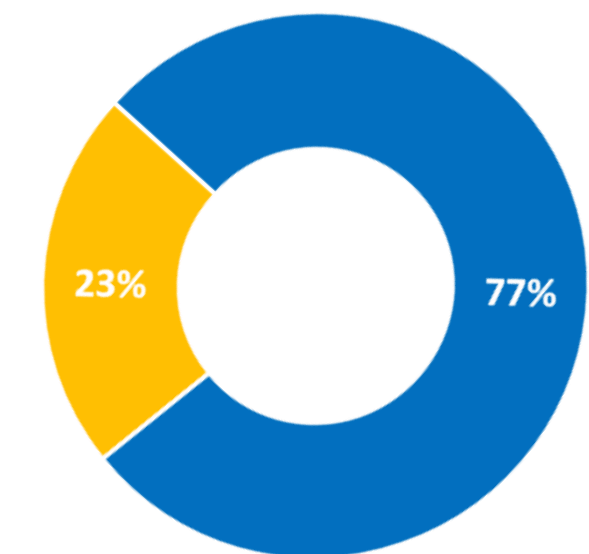
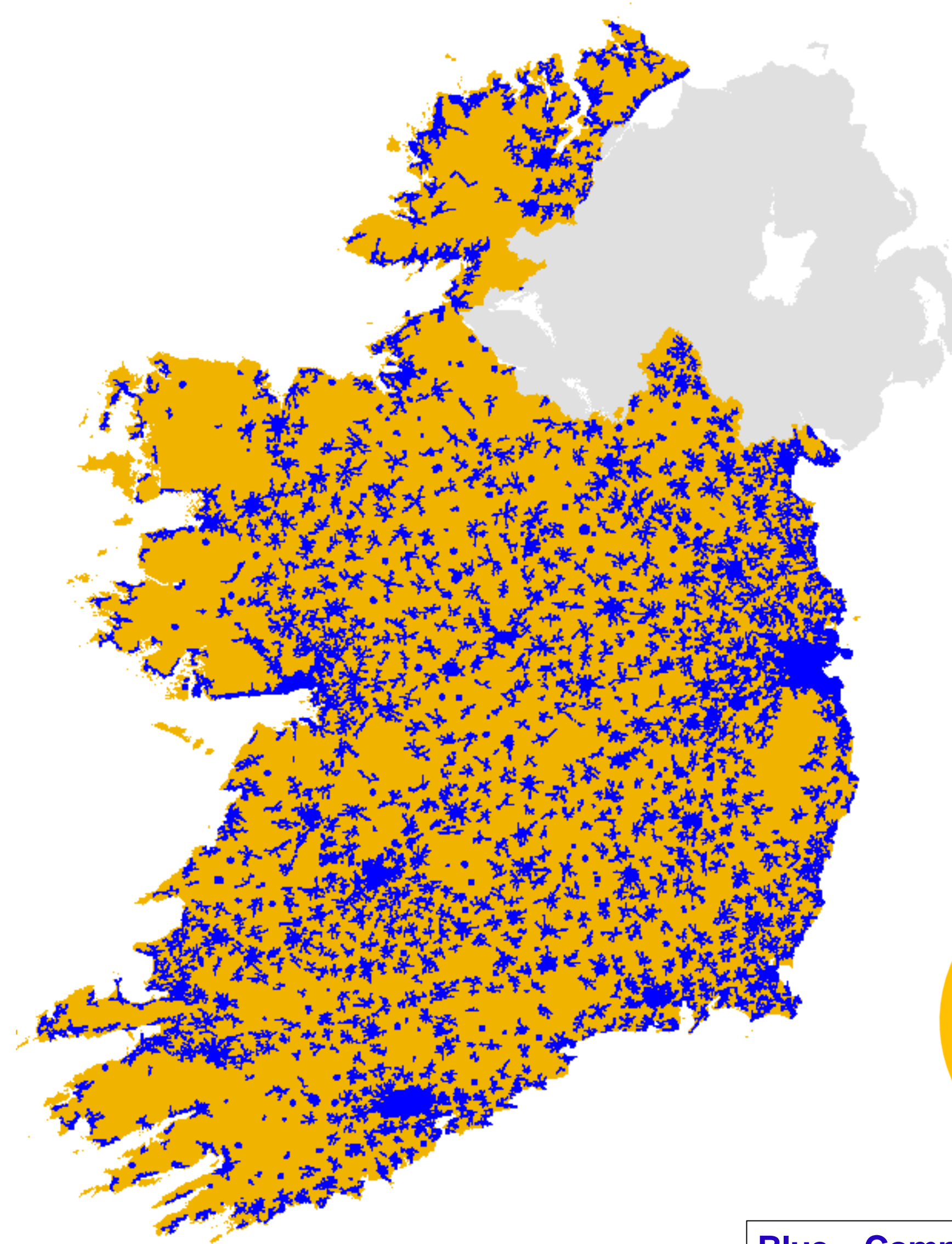


**55,804 (68%)
farms**

Intervention Area

Programme Challenges:

- Very dispersed nature of homes and businesses across every townland.
- Amber represents circa 544,000 premises and scope of the NBI contract
- Building around and beyond the commercial FTTH intervention area.
- Communicating the Project and its timelines to a large and varied stakeholder group.
- Issues arising from consumers in Blue area unable to receive 30Mbps broadband.



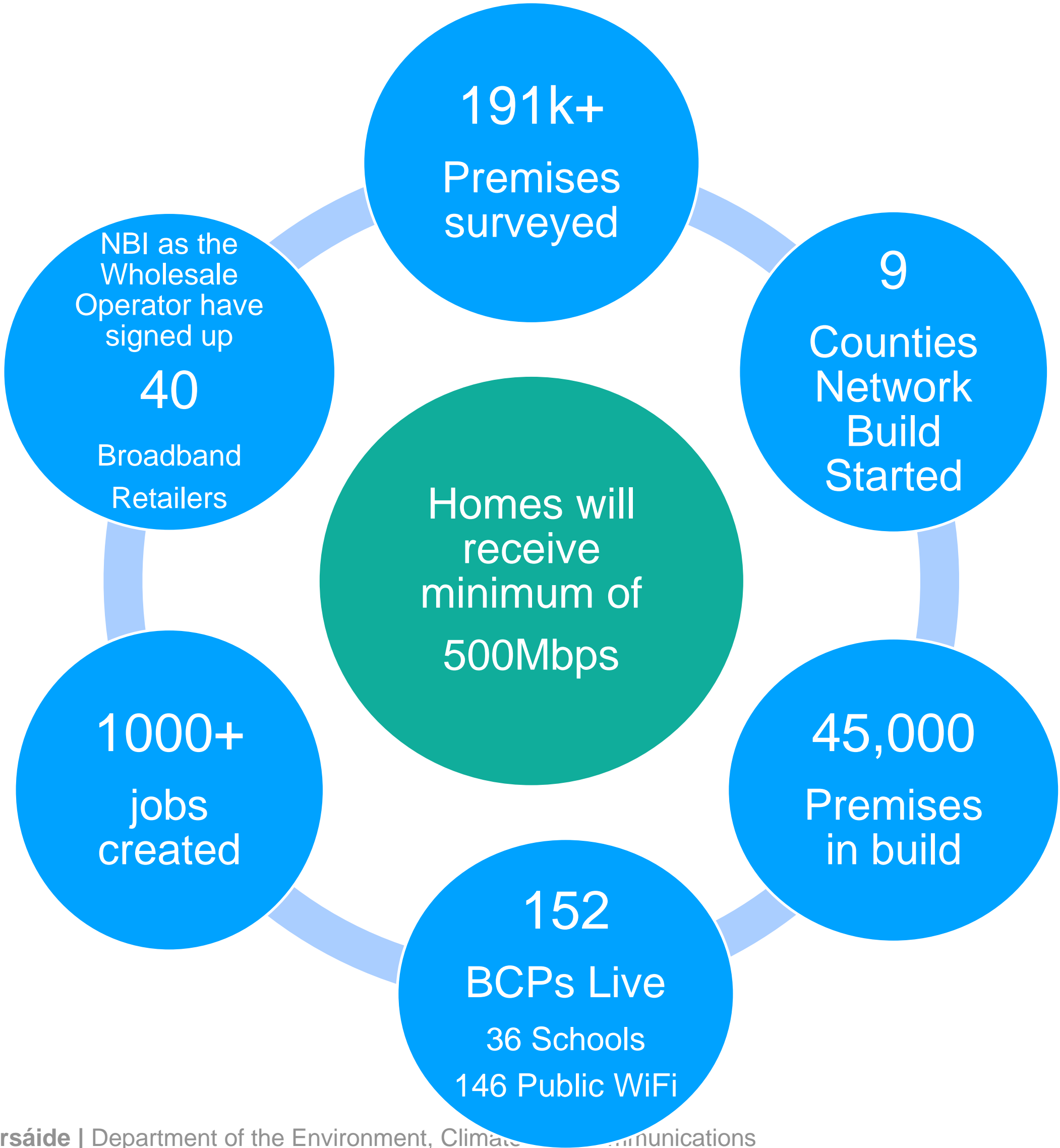
Blue – Commercial coverage
Amber - NBP Intervention Area



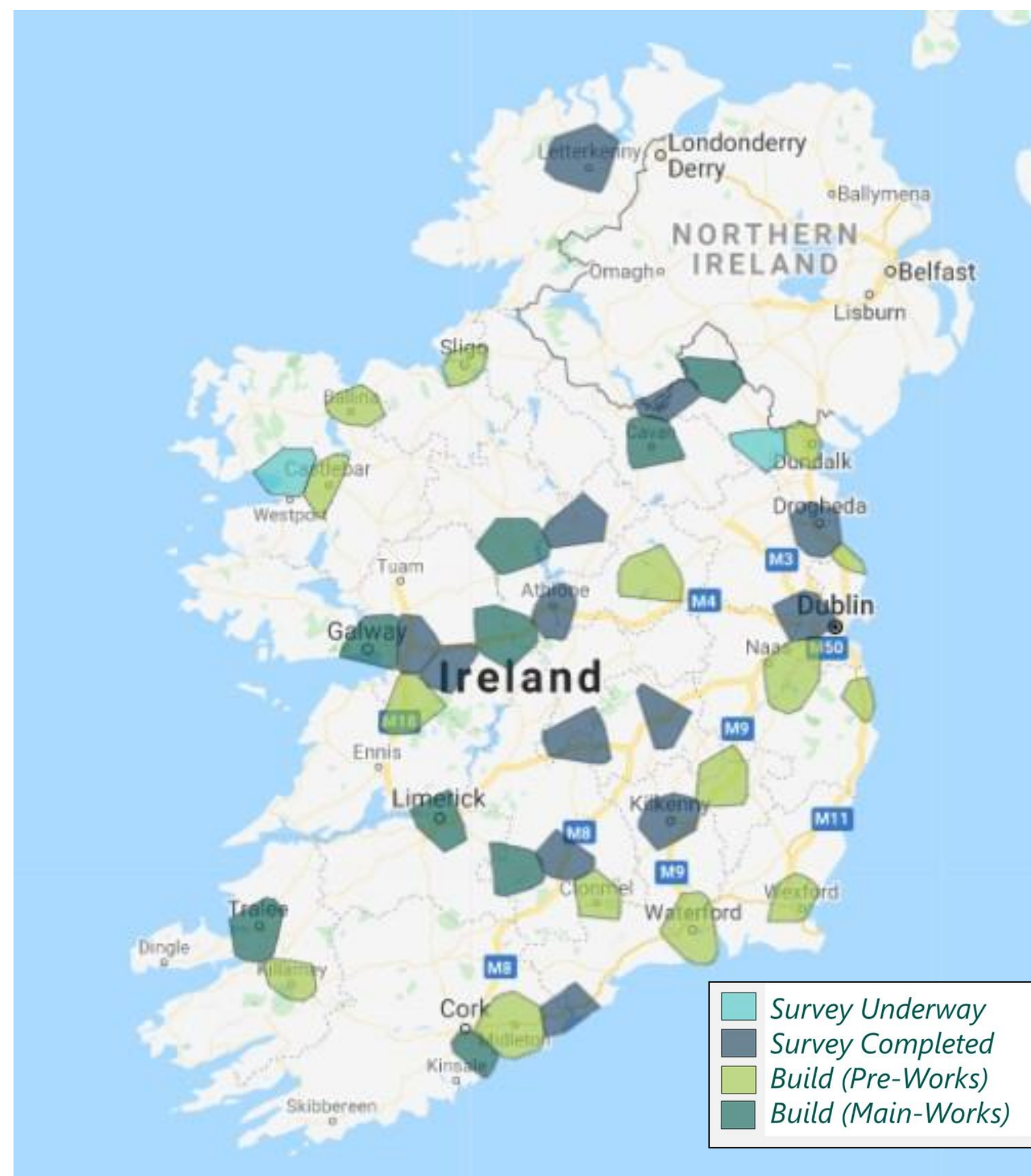
NBP Roll Out

Key Highlights

Data as of 10 March 2021



Fibre Network Rollout Summary



❑ **227 Deployment Areas** evenly spread across the State

❑ **Circa 2,000 to 5,000 homes** in each deployment area

Survey

❑ Surveys Completed in 45 DAs: 191k of 544k+ premises.

❑ Surveys Underway in 5 DA's : (Dunboyne,/Clonee, Ballylinan, Templemartin, Newport, Carrowmorelacken)

Build

❑ Build underway is 25 DA's across many Counties

❑ Circa 45,000 premises across Carrigaline, Galway, Cavan, Limerick, Ballinasloe, Tralee, Monaghan, Roscommon, Tipperary, Dundalk, Midleton

❑ NBI pass each home with fibre cable as first main deliverable

Connections

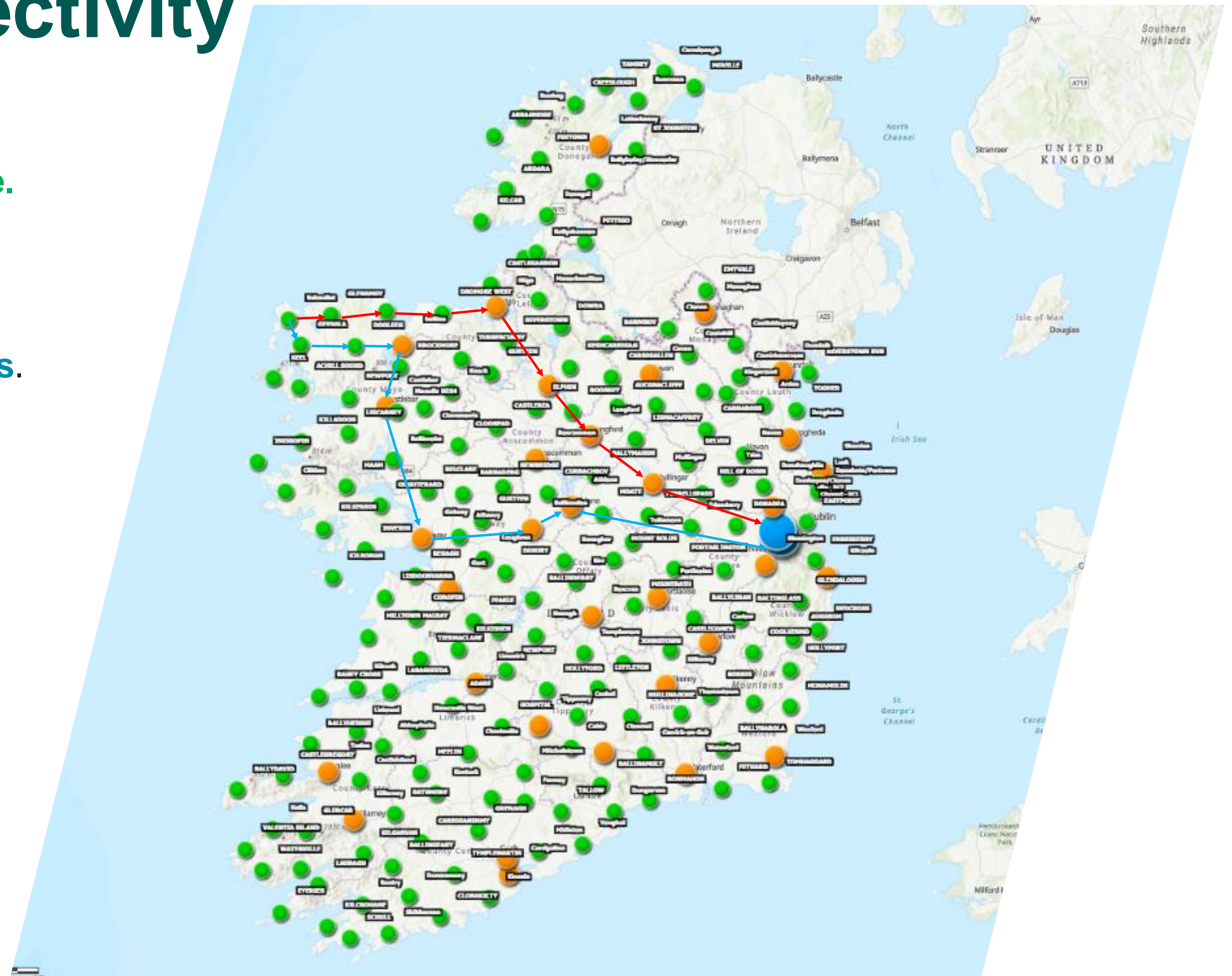
❑ **Homes and Businesses** place an order with a retailer and then get connected by NBI with charges on a par with urban areas

Data Network Connectivity

- When a premises connects to the internet, the data traffic is sent to a **Local Exchange**.
- From there, the Local Exchange sends the data traffic to a **Regional Exchange**.
- The data traffic is then sent to **Data Centres**, which are primarily in Dublin.

→ Primary Data Path

→ Backup Data Path

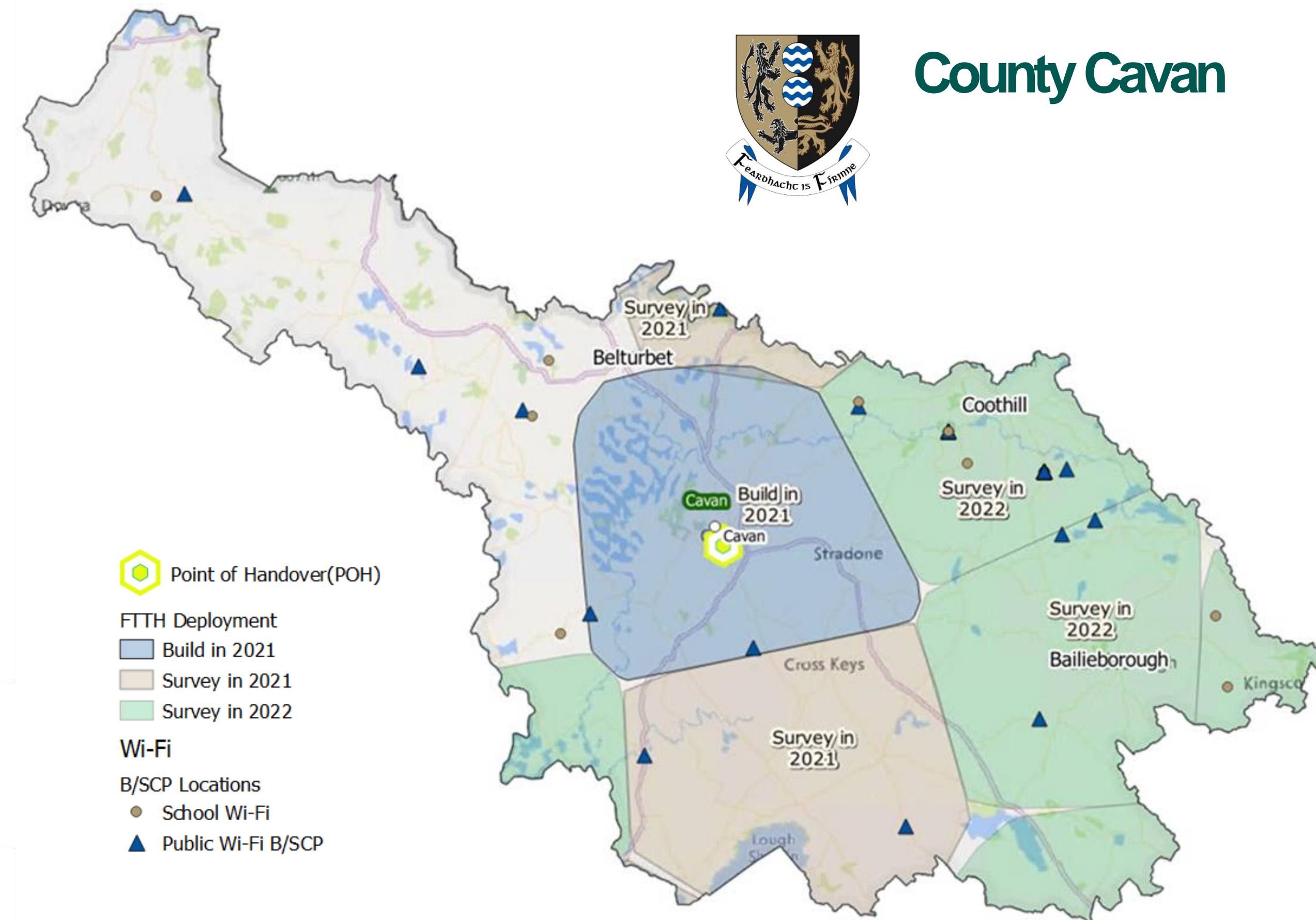


Fibre-To-The-Home

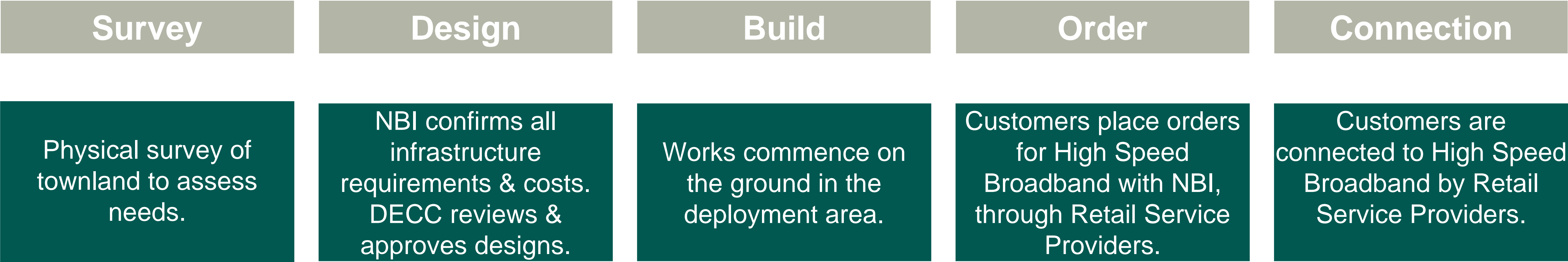
- Each Deployment Area is designed to **build out the network**, starting at Regional Exchanges rolling out to smaller Local Exchanges.
- Regular **updates are provided to the public and stakeholders** on build progress and connection timelines
- All homes are addressed within a circa 20 Km radius from the exchange area regardless of how remote



County Cavan



Network Build to Connection



18 months from survey to service availability – NBI currently in the process of updating their website to increase to the advance notice for estimated availability dates

Fibre Deployment Update

Premises Surveyed = 196k
Premises currently in build = 92k
Premises ready for connection = 900+

- ✓ **Actively working across 63 DA's**
- ✓ **Build Underway in 25 DA's**
- ✓ **Surveying completed in 35 DA's**
- ✓ **Surveying underway in 3 DA's**

Deployment Area	Actual	Status
Adare	4508	Surveying Complete
Athenry	2026	Surveying Complete
Athlone	2160	Surveying Complete
Ballina	2678	Build Underway -TT
Ballinasloe	3307	Build Underway - OE MR
Ballycarney	4252	Surveying Complete
Ballyheigue	1562	Surveying Complete
Ballylinan	3282	Surveying Complete
Blessington	5031	Build Underway - OE MR
Borris	4228	Surveying Complete
Carlow	3544	Build Underway - OE MR
Carrickmacross	2653	Surveying Underway
Carrick-On-Shannon	3576	Surveying Complete
Carrick-On-Suir	694	Surveying Underway
Carrigaline	4615	Build Underway - OE MR
Carrowmorelacken	1638	Surveying Complete
Cashel	2044	Surveying Complete
Castlebar	2139	Build Underway - OE MR
Castlegarron	1446	Surveying Complete
Castlegregory	886	Surveying Complete
Cavan	3738	Build Underway - OE MR
Clones	1746	Surveying Complete
Clonmel	2143	Build Underway -TT
Creeslough	3271	Surveying Complete
Delvin	2387	Surveying Complete
Dingle (Ballydavid)	1816	Surveying Complete
Drogheda	4173	Build Underway -TT
Dunboyne/Clonee	4455	Surveying Complete
Dundalk	2770	Build Underway - OE MR
Emyvale	1320	Surveying Complete
Galway	3502	Build Underway - OE MR
Deployment Area	Actual	Status

Deployment Area	Actual	Status
Gort	2618	Build Underway -TT
Inverin	1075	Surveying Complete
Johnstown	2999	Surveying Complete
Kilcoole	2836	Build Underway - OE MR
Kilgarvan	2086	Surveying Complete
Kilkenny	2952	Surveying Complete
Kilkishen	3556	Surveying Complete
Killarney	3382	Build Underway - OE MR
Letterkenny	3118	Surveying Complete
Limerick	4075	Build Underway - OE MR
Longford	3294	Surveying Complete
Loughrea	2386	Surveying Complete
Midleton	8446	Build Underway - OE MR
Monaghan	4355	Build Underway - OE MR
Mountrath	1382	Surveying Underway
Mullingar	4109	Build Underway - OE MR
Newport (Mayo)	1826	Surveying Complete
Portlaoise	3638	Surveying Complete
Rathmore	3483	Surveying Complete
Redcross	3236	Surveying Complete
Riverstown Rvn	907	Surveying Complete
Roscommon	3591	Build Underway - OE MR
Roscrea	2415	Surveying Complete
Skerries	2437	Build Underway -TT
Sligo	2513	Build Underway - OE MR
Templemartin	6333	Surveying Complete
Tipperary	3316	Build Underway - OE MR
Tomhaggard	3234	Surveying Complete
Tralee	3167	Build Underway - OE MR
Waterford	6351	Build Underway -TT
Wexford	3745	Build Underway - OE MR

Build Underway – OE MR = openeir Make Ready
Build Underway –TT = Tree Trimming

Retail Service Provider Update



NBI is a wholesale-only provider of network services.



41 retailers have agreed to work with NBI so far, from Vodafone (large) to Ivertec (small).



NBI has engaged with over 40 service providers on a monthly basis.



Consumers are guaranteed 500Mbps download and 50Mbps upload.



Businesses can avail of faster packages with up to 5+Gbps.



Consumers will be able to purchase Broadband, TV, mobile and landline from the same provider in “bundled” services.



NBP in the Community

Broadband Connection Points



In 2020 and early 2021 NBI will connect 270+ Broadband Connection Points (BCPs)

- Sites are located across all 26 counties.
- These points will provide free high-speed internet access with many offering remote working capabilities.
- BCPs have been selected by local authority BBOs and submitted to the Department of Rural & Community Development. They are subject to change & schools will only provide educational access for pupils or any post school activities.
- The objective of BCPs is to ensure high speed connectivity for those in the Intervention Area in the short term.
- Vodafone have a separate contract with DRCD to provide WIFI at all locations except schools
- Department of Education manage the schools WIFI service



Public BCPs & Primary Schools



School sites

Public Wi-Fi sites (BCPs)

- **Over 280 Public WiFi BCPs installed**
- **Over 100 Primary Schools installed so far which will grow to over 700**

The full list of BCPs is available on www.nbi.ie





NBP & Local Authorities

Infrastructure upgrades



- **Reuse of existing infrastructure critical to reduce cost and ensure speed of delivery**
- **Ducts and poles** are crucial to the roll out of the NBP - NBI and eir are in the process of **upgrading the old copper network infrastructure**
- **NBI are also using the MANs network** to facilitate the laying of fibre.
- Towers and masts are not being built as part of the roll out.
- **Section 254 of Planning and Development Act** an important step for successful rollout to connect homes.
- **New guidelines will be issued shortly** to all Local Authorities to assist planners/engineers.



The role of LAs in NBP



Supporting the roll out

- Local Authorities will see significant activity from subcontractors and NBI in terms of **licence applications**.
- Other commercial operators such as eir/Siro/Virgin Media/Imagine also seeking licences/permits on an ongoing basis
- **Consistency** of approach across Local Authorities critical to closing out reviews and granting of licences where appropriate to do so.
- Broadband Officers in each Local Authority play a key role in **co-ordinating stakeholders** to ensure **open lines of communication** are maintained.

Communicating the value of NBP

- **NBI working closely with Broadband Officers** to launch BCPs and connect with communities.
- Information and briefing **supports available to Local Authorities** from DECC and NBI.



NBP Contacts



NBP QUERIES

The NBI website provides information for any premises within the intervention area and allows people to register their interest in being provided with deployment updates www.nbi.ie

AMBER AREA QUERIES

Premises in the AMBER area will be provided with high-speed broadband through the NBP State led intervention. NBI follow up on queries through their call centre at **(lo call) 0818 624 624** or email contactus@nbi.ie

BLUE AREA QUERIES

The BLUE area represents those areas where commercial providers are either currently delivering or have plans to deliver high-speed broadband services. In the event that high speed broadband is not possible in these areas (incl. those who cannot receive 30Mbps) contact broadband@dcae.gov.ie.

OTHER QUERIES

The Department has a dedicated email address at broadband@dcae.gov.ie for any other queries that do not fall under these categories.



Q&A



Thank you

broadband@dccae.gov.ie