

National Broadband Plan Project Overview

Limerick County Council

Donal Hanrahan – Chief Operating Officer, NBI Deployment

07 April 2021

Agenda

Project Introduction

- The National Broadband Plan
- Benefits
- Progress Update
- The Network

Limerick

- Overview
 - Survey Status
-
- **Broadband Connection Engagement**
 - **Stakeholder Engagement**
 - **Questions**



The National Broadband Plan

- **Access**

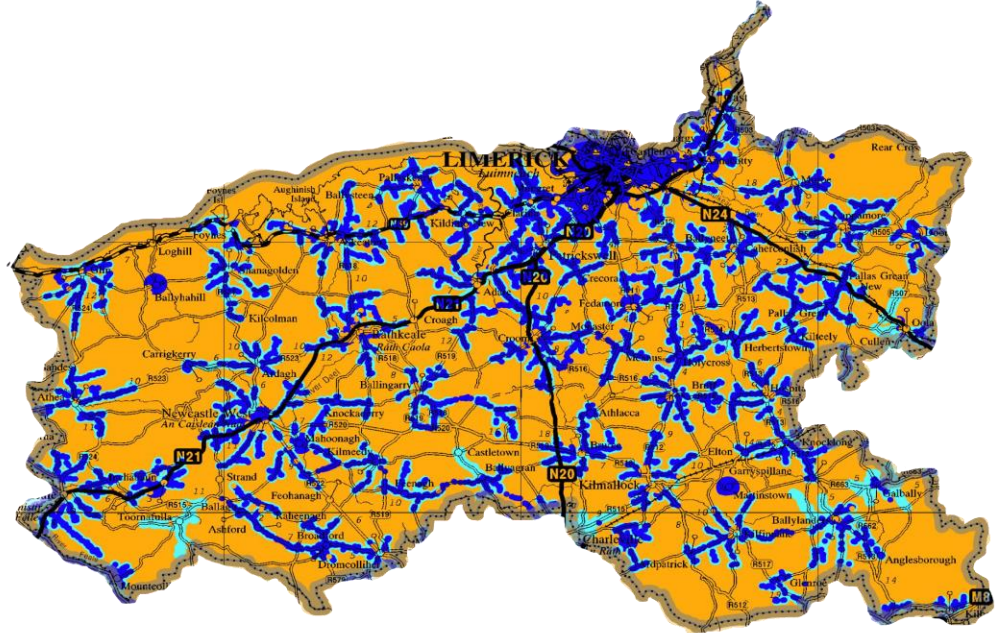
The aim of the programme is to ensure every premises has access to high-speed broadband.

- **Intervention Area**

DECC identified all premises in the country that don't have access to high-speed broadband – this is called the Intervention Area or Amber area.

- **Intervention Area**

NBI have been contracted to build a full fibre network to connect the 544,000+ premises ensuring no one is left behind.



AMBER areas - the target areas for the State intervention of the National Broadband Plan
BLUE areas - where commercial operators are delivering or have indicated plans to deliver high speed broadband services.

Ambitious Government Policy Gains EU Approval: Contract with NBI

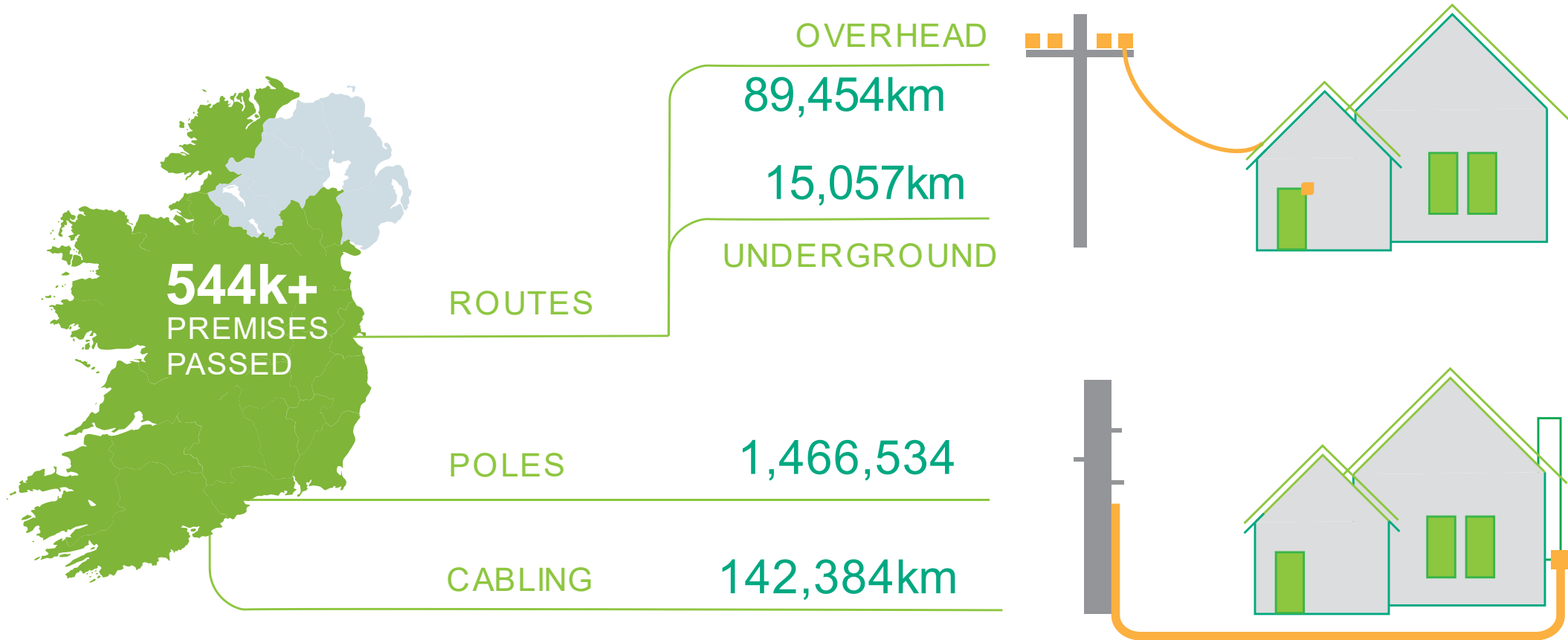
Our promise is to deliver a network that will be fit for future generations.

Commissioner Margrethe Vestager, in charge of competition policy said:

“The National Broadband Plan in Ireland is expected to address the significant digital divide between urban and rural areas in Ireland, enabling Irish consumers and businesses to benefit from the full potential of digital growth. This will help households and businesses in areas of Ireland where private investment is insufficient.”



What we're delivering



Building a Future-Proofed FTTH Network

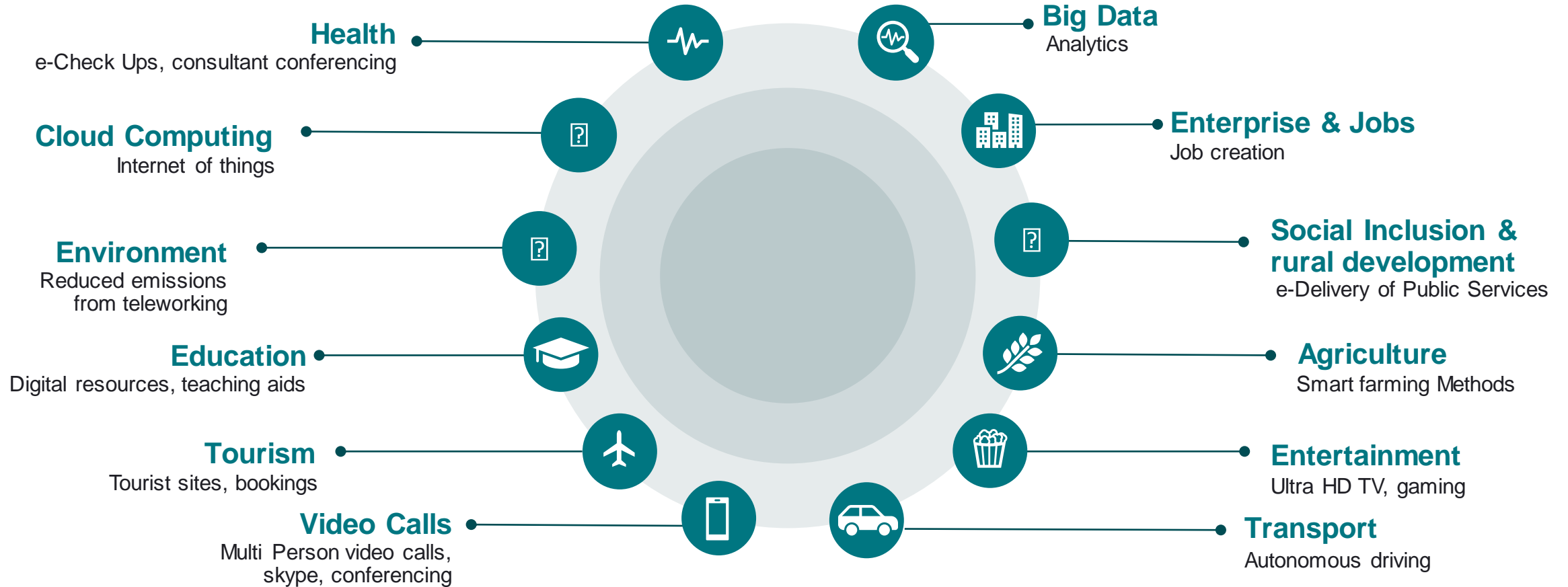
Our promise is to deliver a network that will be fit for future generations



Technology Decisions to Future-Proof the Country

- World leading technologies to futureproof the network
- Use existing infrastructure, where possible, to create a sustainable and cost-effective deployment
- Utilise latest technology capable of delivering multiples of current demand in traffic
- Empower all service providers in Ireland with equal access to a future-proofed wholesale, open access network
- Customers to receive option of up to 1Gbps supported from day one with minimum speed of 500Mbps

The benefits of high-speed broadband



General Progress Update

- **198,000+** premises have been surveyed to date and **161,000+** premises progressing through or completed detail design.
- **900+** premises available for connection in Carrigaline & Cavan Deployment Areas, increasing daily.
- **42 Retail Service Providers** have signed Contracts with NBI to deliver services once the network is built.
- **293** BCPs installed by NBI with **165** BCP sites connected by Vodafone. **152** sites ready for public use. Also **36** schools live.
- NBI team has grown to **~1000** with **~215 FTE**
- **Surveying**
NBI will be surveying premises in all 26 counties in 2021.
- **Fibre Network Build**
Build works will be initiated in all 26 counties in 2021.
- **Programme**
It's a seven-year build programme to complete all.



We're connecting premises!

- Launched first connection in **January 2021**
- **+900** connections available in the Carrigaline and Cavan Deployment Areas.
- Premises available for connection increasing daily.



General Update

Surveying continuing as planned:

- Actively working across **65** Deployment Areas (DA's).
- Build Underway in **25** DA's
- Surveying completed in **35** DA's
- Surveying underway in **5** DA's

Premises Surveyed = 198k

Premises currently in build = 92k

Premises ready for connection = 900+

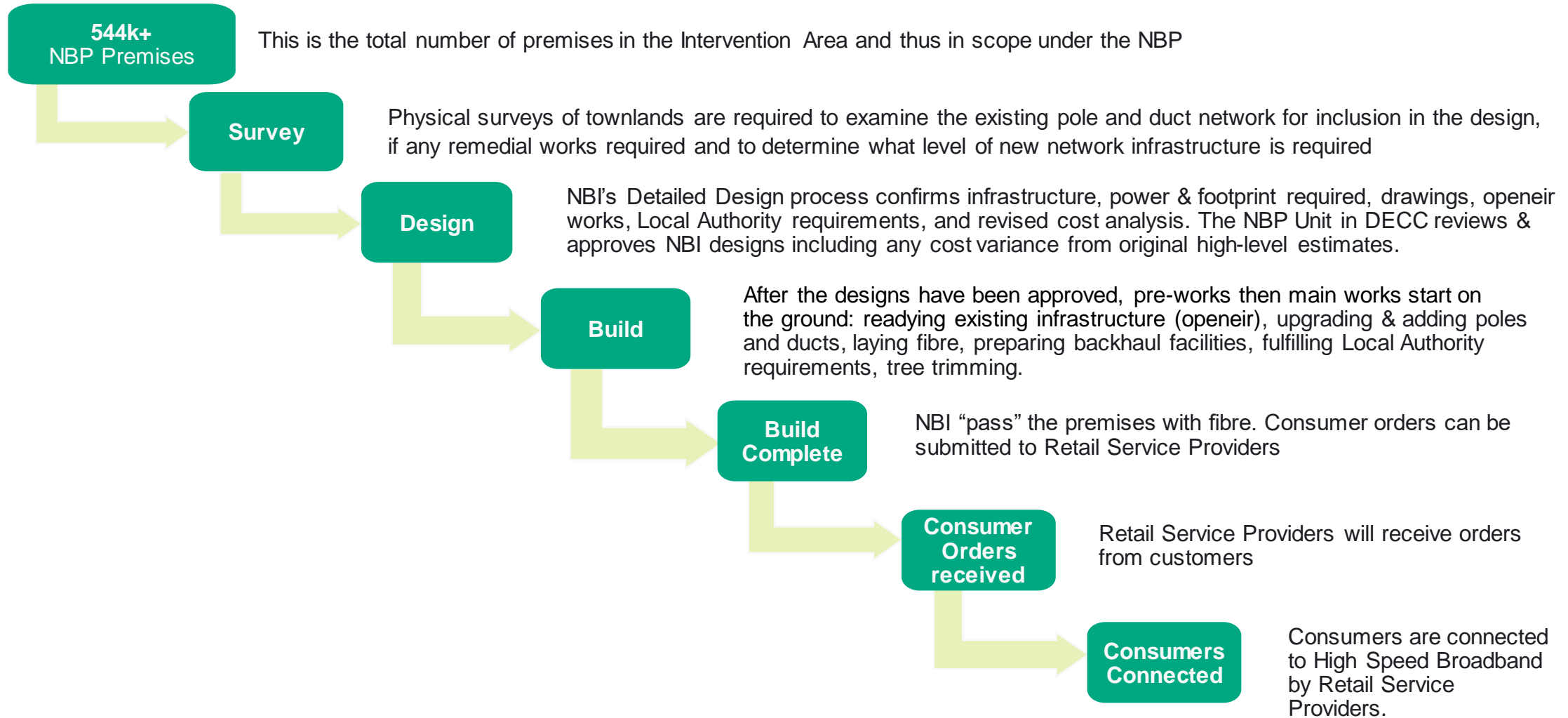
Build Underway - eir MR – Eir Make Ready
Build Underway –TT – Tree Trimming

Deployment Area	Premises	Status
Carrigaline	4615	Build Underway - eir MR
Galway	3502	Build Underway - eir MR
Cavan	3738	Build Underway - eir MR
Limerick	4075	Build Underway - eir MR
Ballinasloe	3307	Build Underway - eir MR
Tralee	3167	Build Underway - eir MR
Wexford	3745	Build Underway - eir MR
Kilcoole	2836	Build Underway - eir MR
Mullingar	4109	Build Underway - eir MR
Monaghan	4355	Build Underway - eir MR
Roscommon	3591	Build Underway - eir MR
Killarney	3382	Build Underway - eir MR
Carlow	3544	Build Underway - eir MR
Tipperary	3316	Build Underway - eir MR
Dundalk	2770	Build Underway - eir MR
Blessington	5031	Build Underway - eir MR
Castlebar	2139	Build Underway - eir MR
Midleton	8446	Build Underway - eir MR
Sligo	2513	Build Underway - eir MR
Waterford	6351	Build Underway - TT
Skerries	2437	Build Underway - TT
Ballina	2678	Build Underway - TT
Drogheda	4173	Build Underway - TT
Clonmel	2143	Build Underway - TT
Gort	2618	Build Underway - TT
Portlaoise	3638	Surveying Complete
Dunboyne/Clonee	4455	Surveying Complete
Roscrea	2415	Surveying Complete
Kilkenny	2952	Surveying Complete
Athlone	2160	Surveying Complete
Letterkenny	3118	Surveying Complete
Carrick-On-Shannon	3576	Surveying Complete
Longford	3294	Surveying Complete

Deployment Area	Premises	Status
Youghal	3371	Surveying Complete
Kilkishen	3556	Surveying Complete
Adare	4508	Surveying Complete
Ballycarney	4252	Surveying Complete
Johnstown	2999	Surveying Complete
Borris	4228	Surveying Complete
Athenry	2026	Surveying Complete
Loughrea	2386	Surveying Complete
Inverin	1075	Surveying Complete
Delvin	2387	Surveying Complete
Castlegregory	886	Surveying Complete
Tomhaggard	3234	Surveying Complete
Dingle (Bally david)	1816	Surveying Complete
Ballyheigue	1562	Surveying Complete
Emyvale	1320	Surveying Complete
Clones	1746	Surveying Complete
Redcross	3236	Surveying Complete
Rathmore	3483	Surveying Complete
Ballylinan	3343	Surveying Complete
Cashel	2044	Surveying Complete
Kilgarvan	2086	Surveying Complete
Creeslough	3271	Surveying Complete
Templemartin	6333	Surveying Complete
Newport (MO)	1826	Surveying Complete
Castlegarron	1446	Surveying Complete
Riverstown Rvn	907	Surveying Complete
Carrowmorelacken	1638	Surveying Complete

Deployment Area	Premises	Status
Enniskerry	1390	Surveying Underway
Castlereagh	1151	Surveying Underway
Carrick-On-Suir	1800	Surveying Underway
Mountrath	1918	Surveying Underway
Carrickmacross	3185	Surveying Underway

NBI's Network Design and Build Process

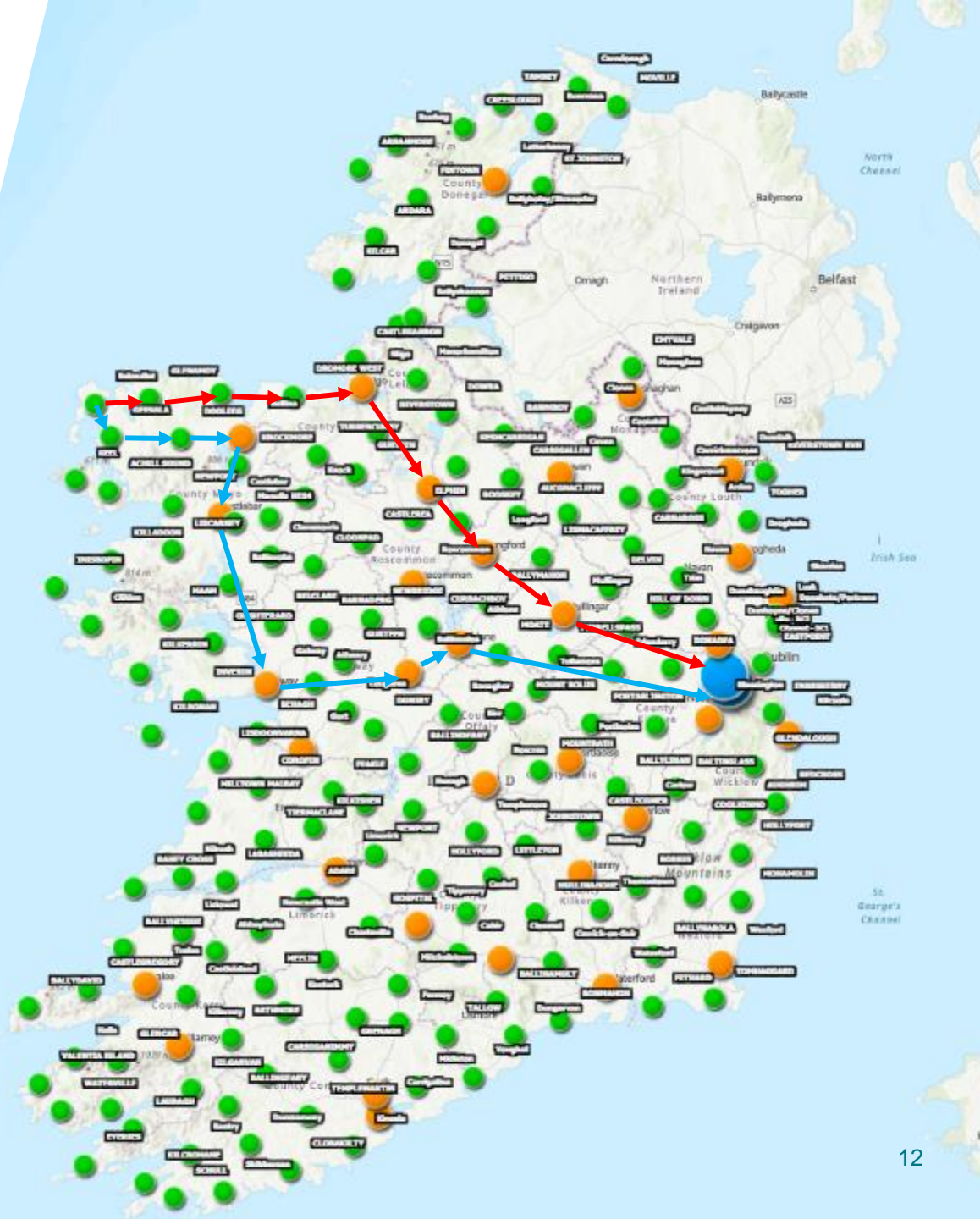


How a network 'works'

- When a premise connects to the internet, the data goes to a **Local Exchange**.
- From there the local exchange sends the data to the **Regional Exchange**.
- Then the data is sent to **Data Centres**, this is where most internet traffic ends up. These are primarily in Dublin.

→ Primary Data Path

→ Backup Data Path



How we're rolling out the NBI network

The NBI network is designed on 227 **Deployment Areas**, each with a **Local** or **Regional Exchange** at its core.

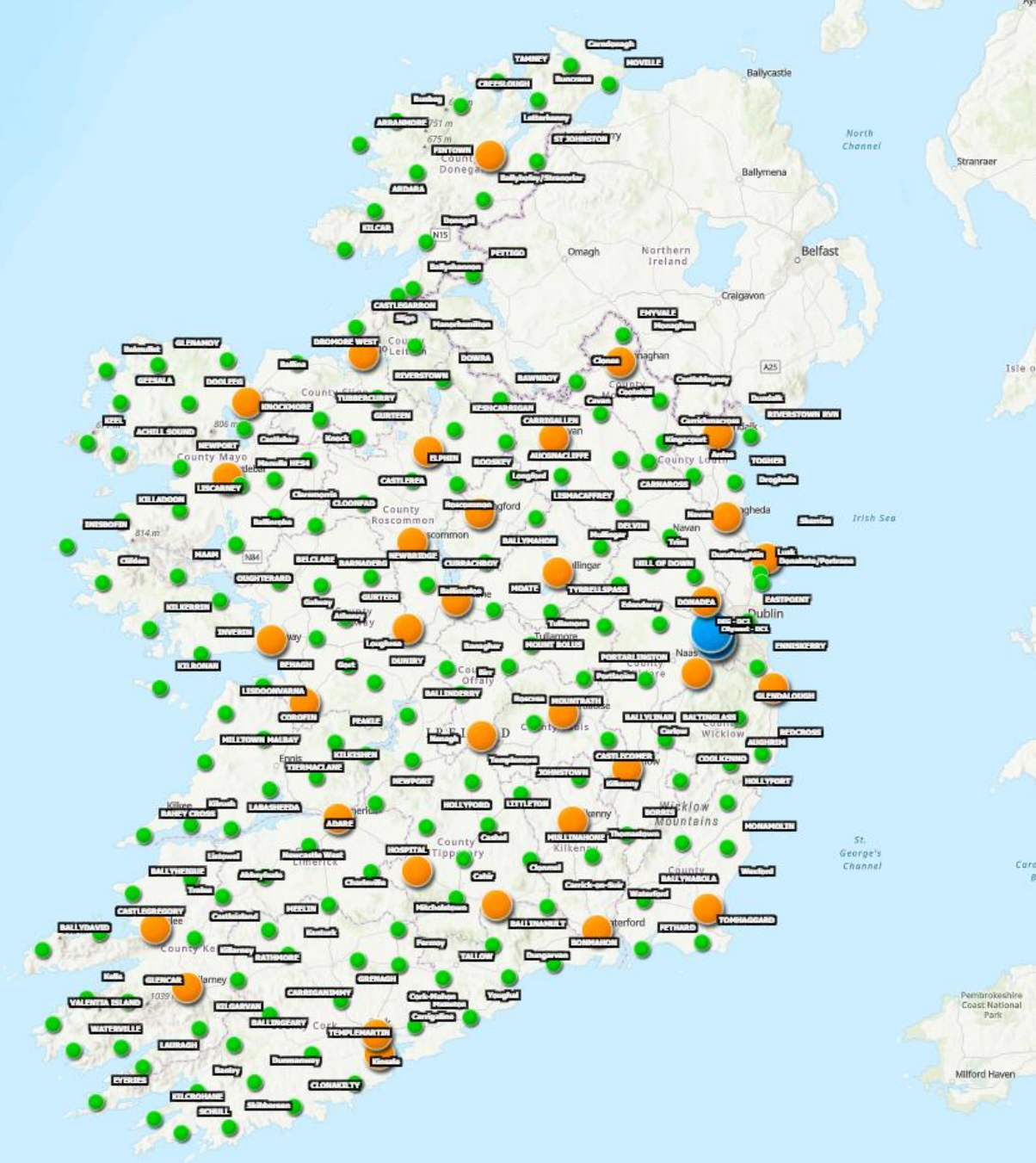
- **33 Regional Exchanges**

Regional Exchanges are our backbone and connect us directly connected to the Data Centres. We build these first.

- **194 Local Exchanges**

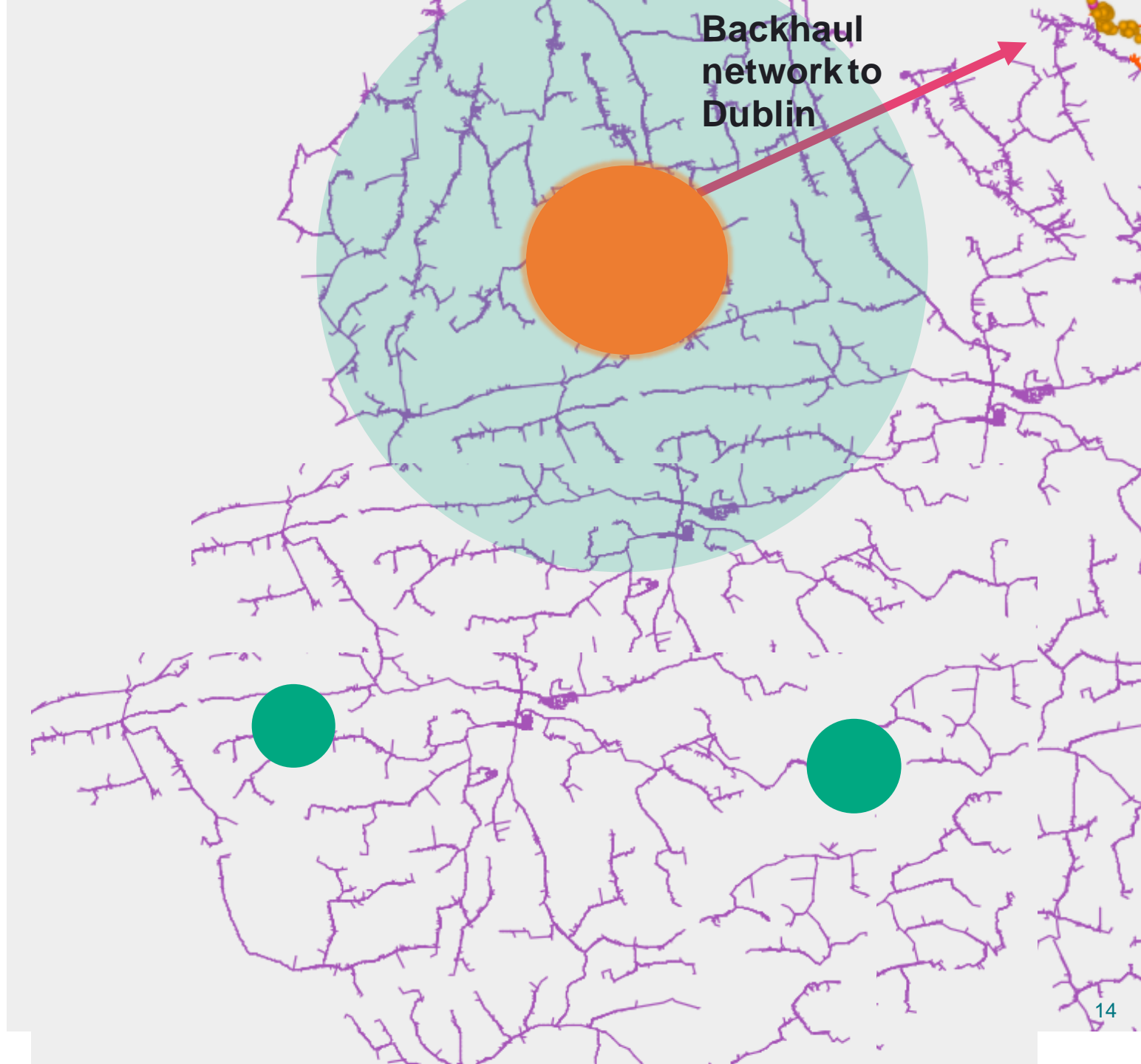
All local exchanges **connect to their nearest Regional Exchange**. These areas are built after the Regional Exchange area is built.

- Exchanges will all connect back to **Data Centres**, most are based in Dublin



Regional Exchanges

- Deployment Areas that have a **Regional Exchange** area are built first.
- This is to ensure we have a solid backhaul network connection back to Data Centres.
- Deployment Area around the **Regional Exchange** is ~20km in radius, depending on the fibre route.

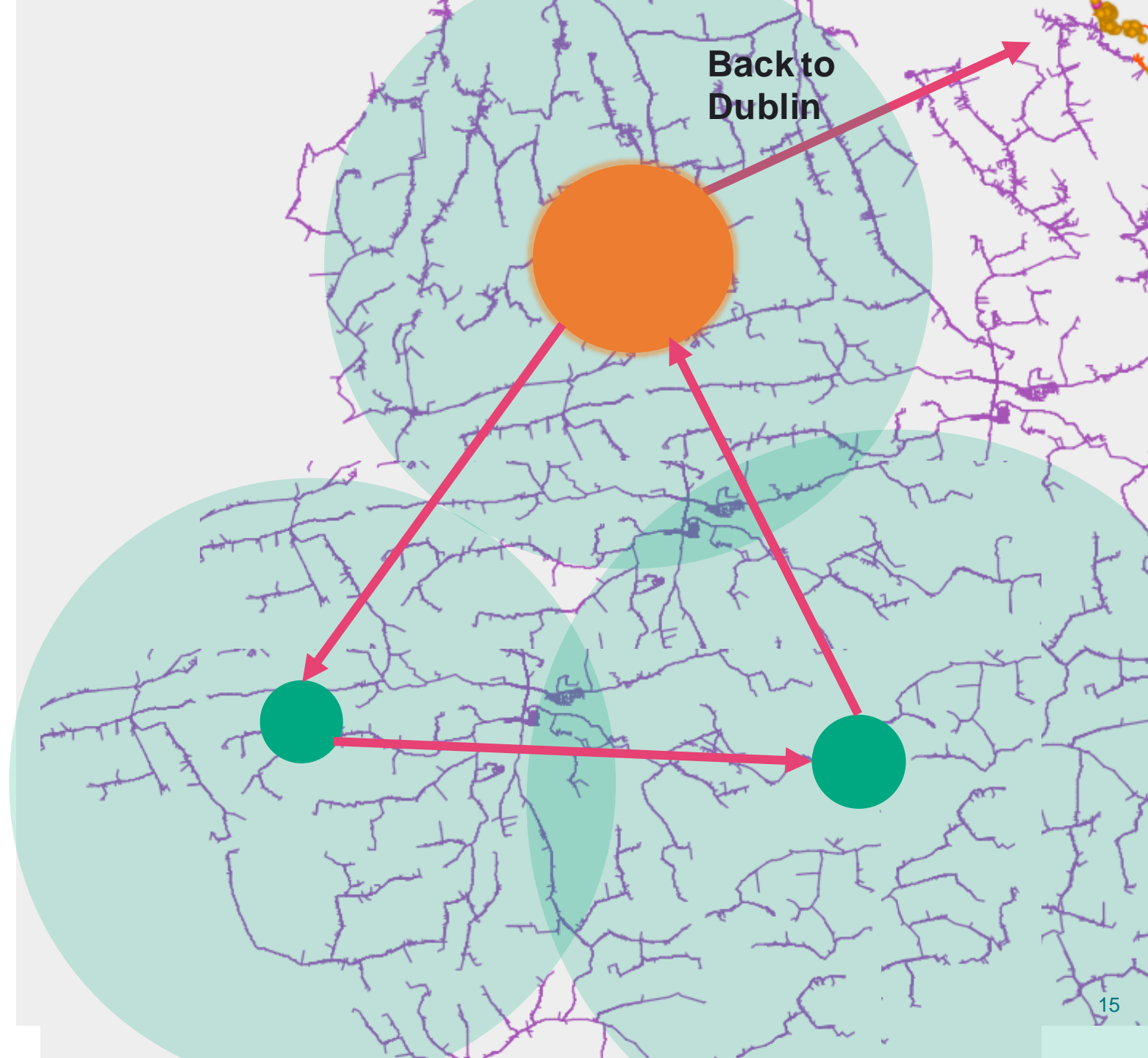


Local Exchanges

- Once the Deployment Area with the **Regional Exchange** is built, we then connect to an adjacent Deployment area with a **Local Exchange** and build out from there.
- Each Deployment Area is ~20km in diameter.
- Local Exchanges send data via the **Regional Exchange** to the Data Centres.

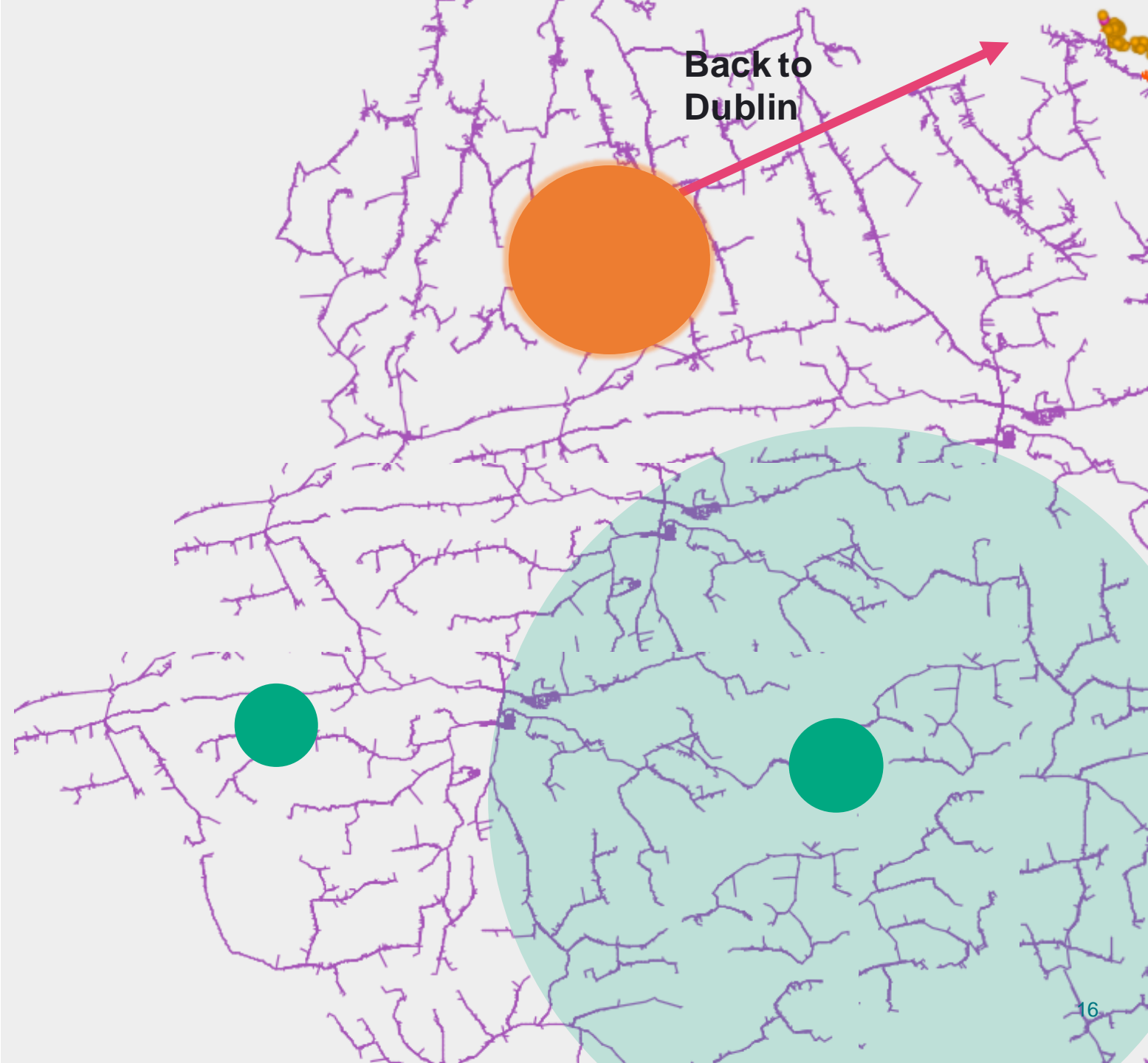
Why not build Local Exchanges first?

- Building Local Exchanges first would mean a delay in getting premises connected as the link to the Data Centres via the Regional Exchange would be missing.



If we built a Local Exchange first.

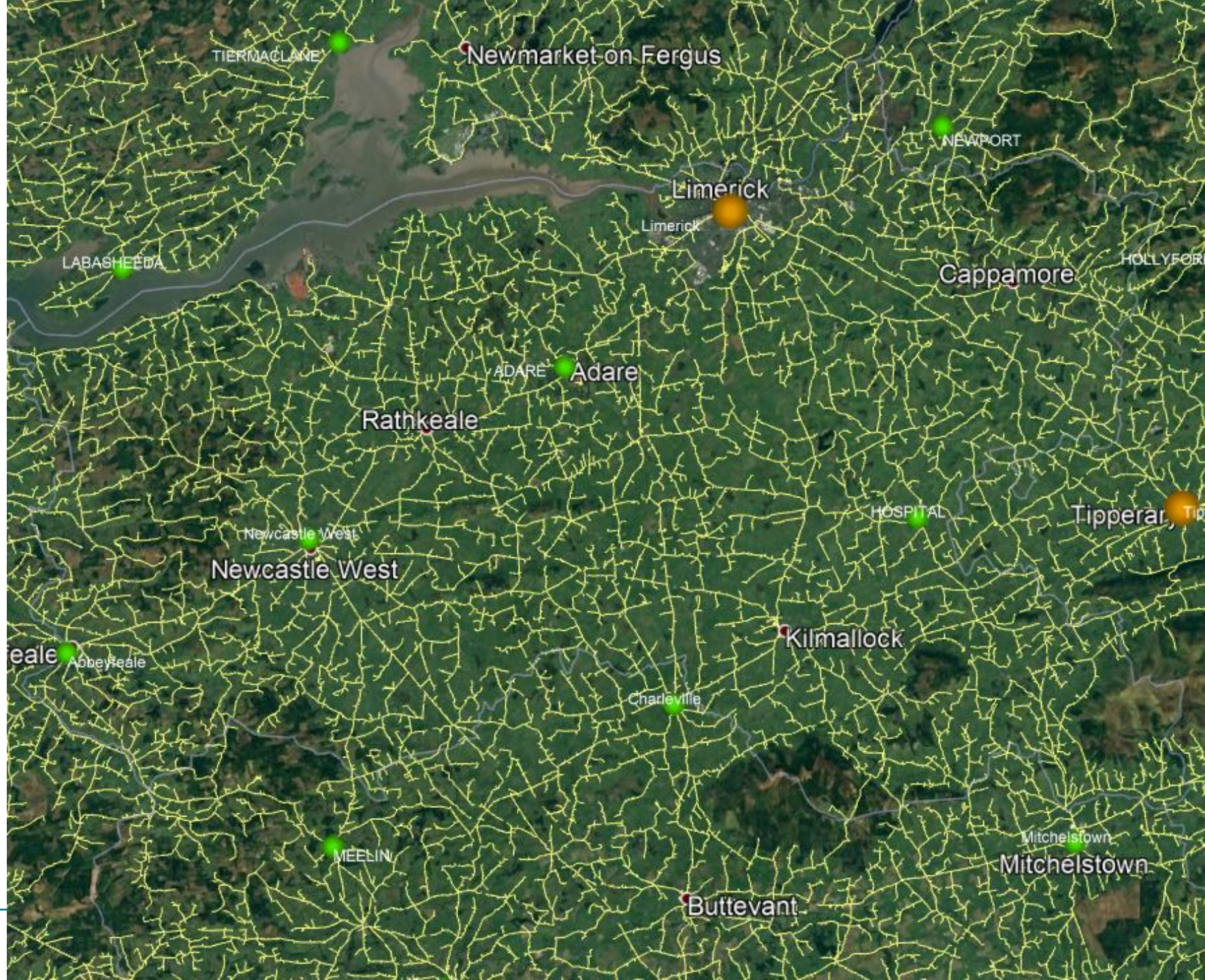
- If we built a Local Exchange first, there would be no connection back to the Data Centres.



County Limerick

Co. Limerick Overview

- There are ~**21,231** premises in Co. Limerick without access to high-speed broadband.
- This represents **22%** of the total premises in the county.
- Government will invest ~**€84m** in building NBP in Co. Limerick.

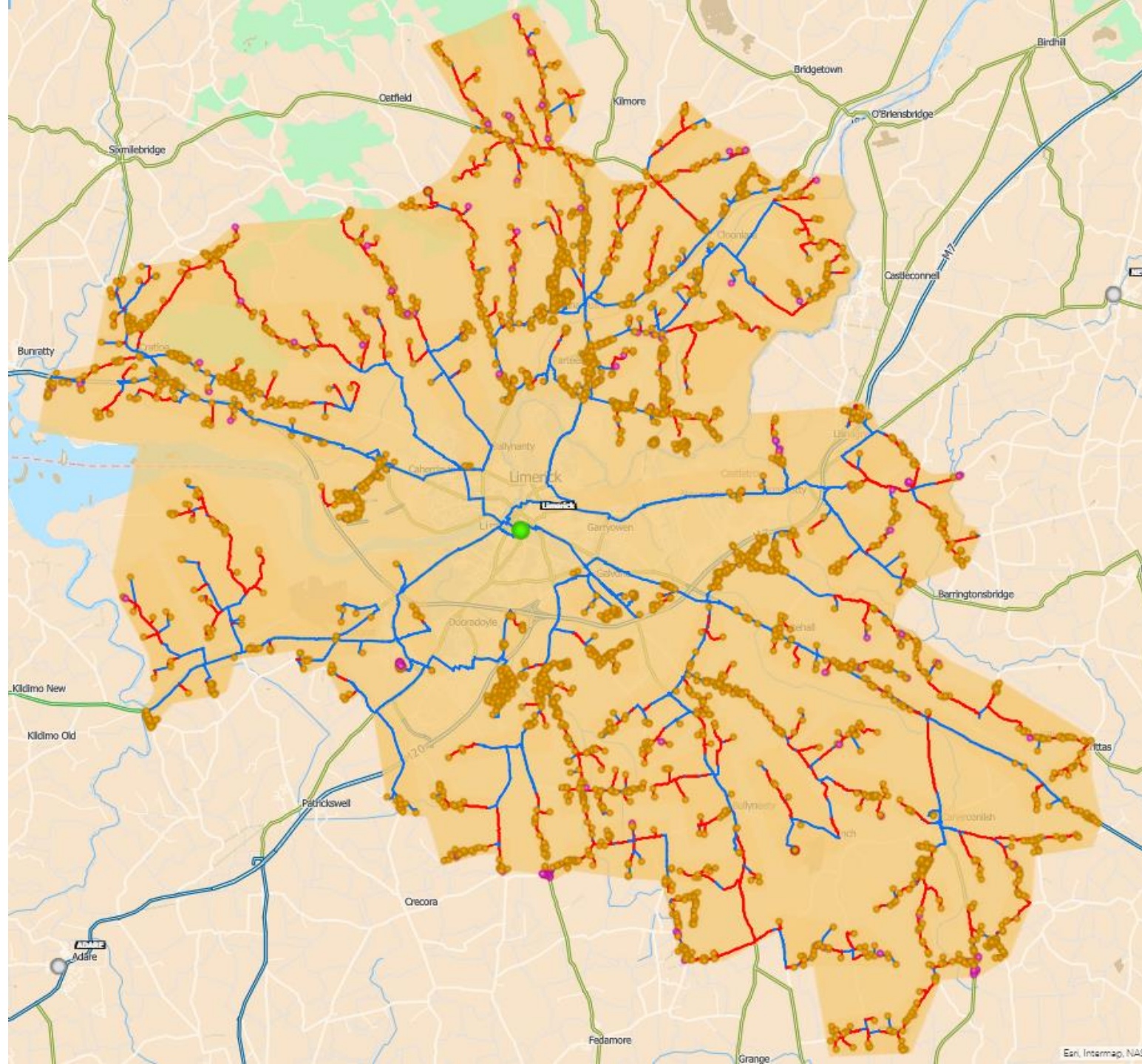


County Limerick Network

Deployment Area	# in Limerick	Estimated Connection timeline	STATUS as of 19/02
Abbeyfeale	1390	TBC	SURVEY_PENDING
ADARE	3450	July 2022 - December 2022	SURVEY_COMPLETE
Charleville	1754	TBC	SURVEY_PENDING
HOLLYFORD	428	TBC	SURVEY_PENDING
HOSPITAL	2602	TBC	SURVEY_PLANNED
KILLAVULLEN	4	TBC	SURVEY_PENDING
LABASHEEDA	36	TBC	SURVEY_PENDING
Limerick	1633	June 2021 - August 2021	BUILD UNDERWAY
Listowel	491	TBC	SURVEY_PLANNED
MEELIN	365	TBC	SURVEY_PENDING
Mitchelstown	831	TBC	SURVEY_PENDING
Newcastle West	3652	TBC	SURVEY_PENDING
NEWPORT	1453	TBC	SURVEY_PENDING
Tipperary	369	August 2021 - October 2021	BUILD UNDERWAY

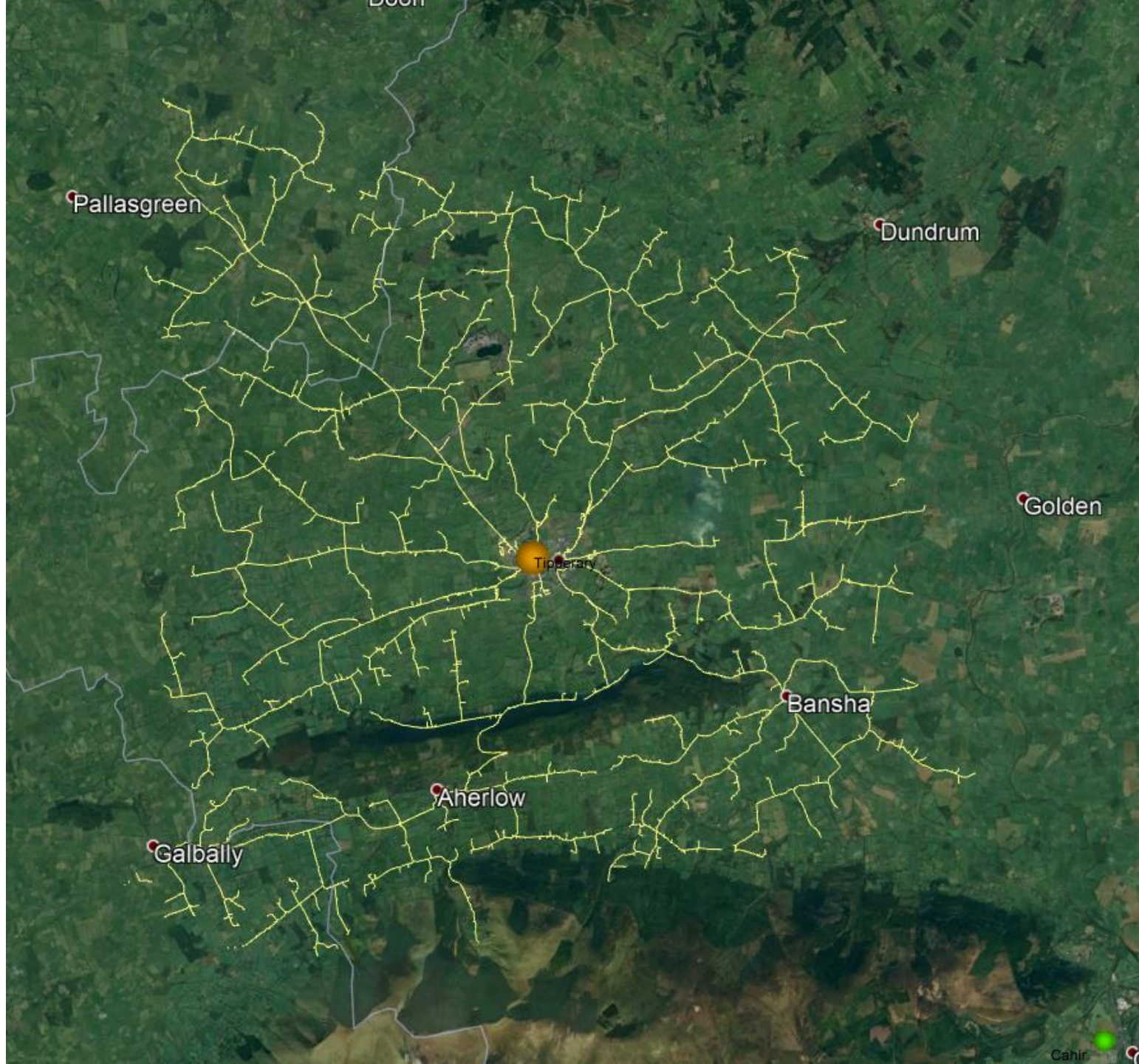
Limerick Deployment Area

- Status: **BUILD UNDERWAY**
- 2940 premises in Limerick Deployment Area, **1633** premises are in Co. Limerick.
- Estimated Connection Dates between: **June 2021 - August 2021**



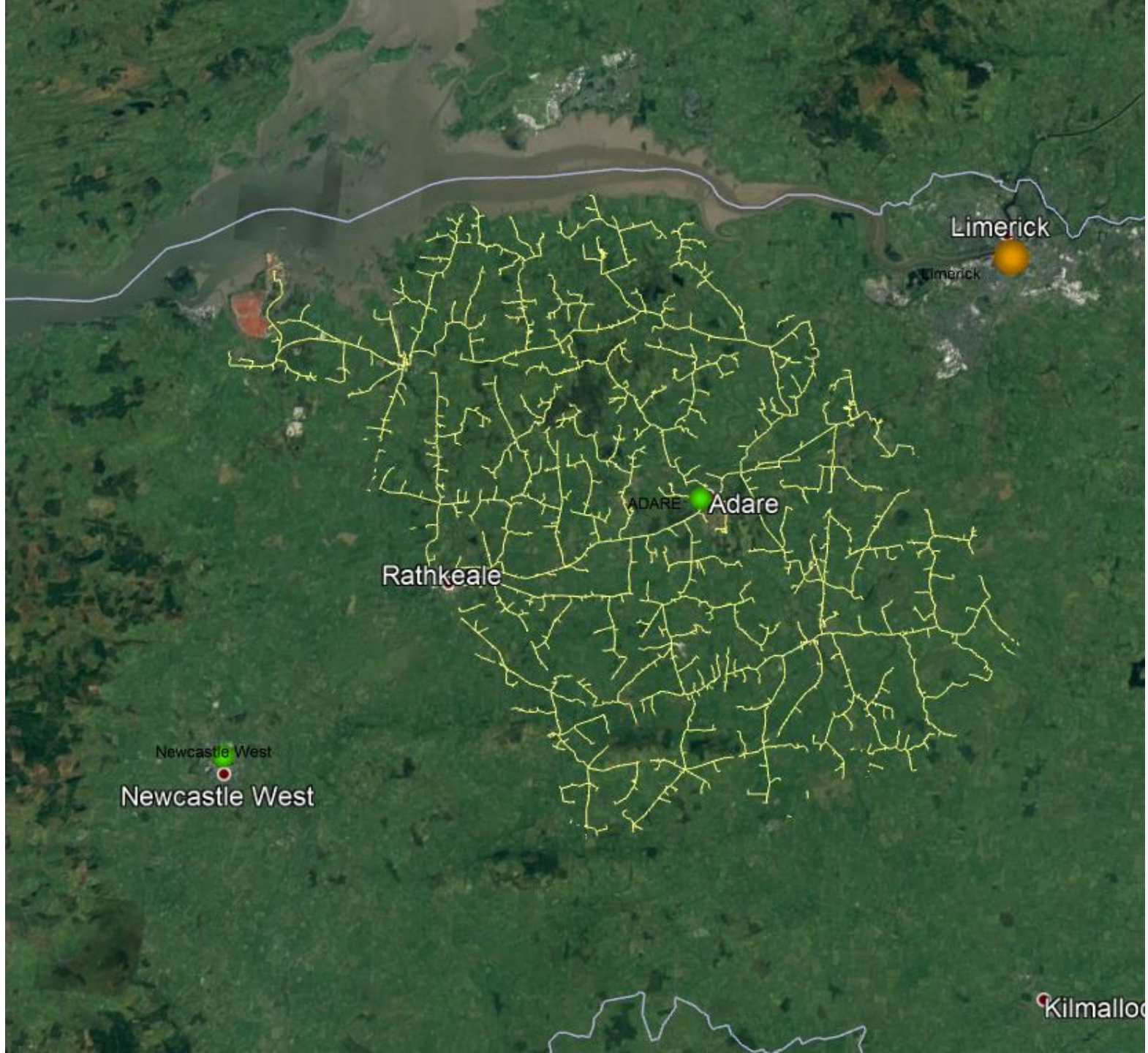
Tipperary Deployment Area

- Status: **BUILD UNDERWAY**
- 2766 premises in Tipperary DA, **369** premises in Co. Limerick.
- Estimated Connection Dates between: **August 2021 – October 2021**



Adare Deployment Area

- Status: **SURVEY COMPLETE**
- All 3450 premises are in Co. Limerick.
- **Estimated Connection Dates between:**
July 2022 – December 2022



BCP Update

Broadband Connection Points

In 2020 and early 2021 NBI will also 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 IA in the short term

- **293 BCPs** connected by NBI.
- **165** Vodafone BCP sites live, plus
- **36** schools



National BCP Launch Thursday October 9th



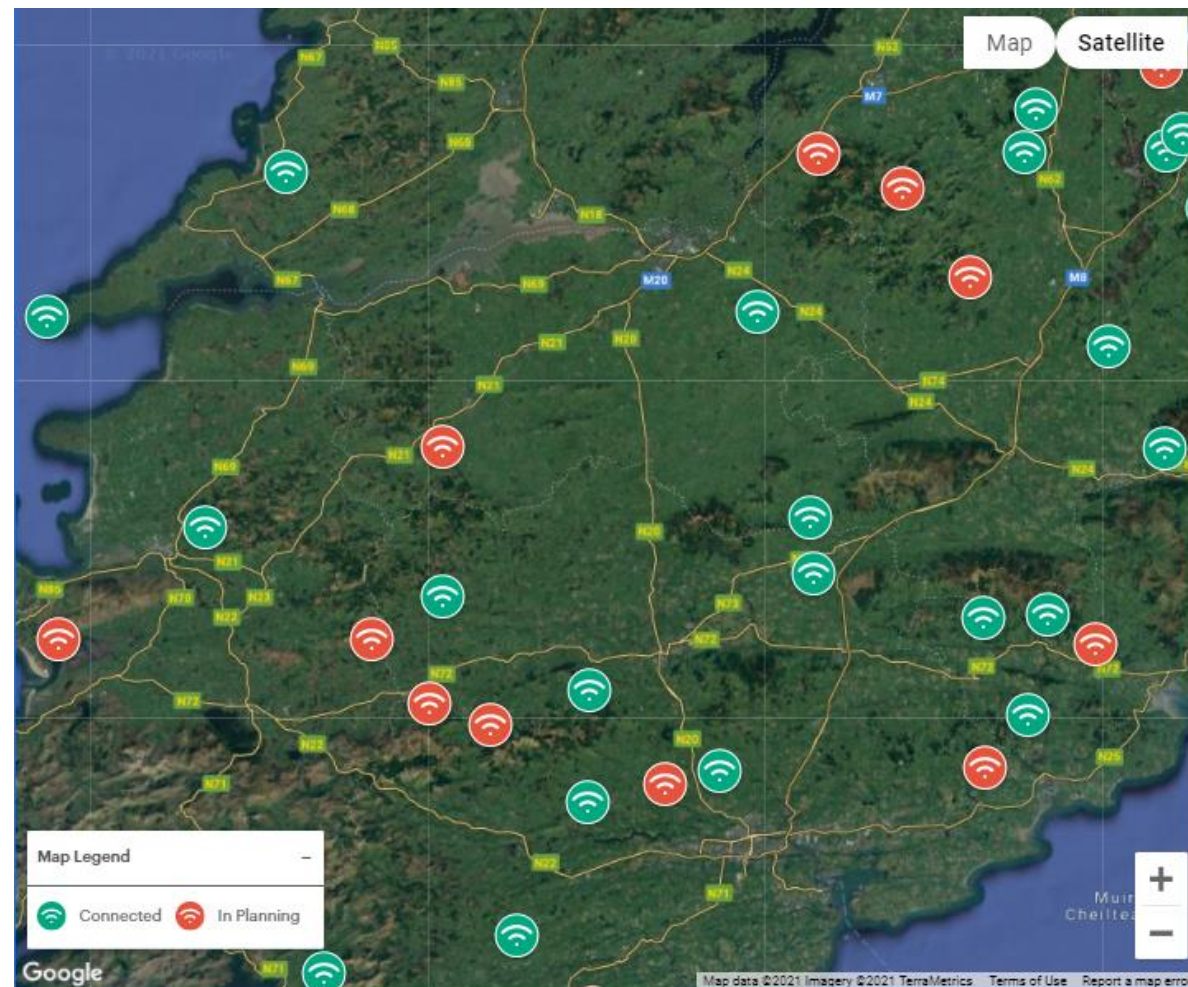
BCPs & Primary Schools in County Limerick

14 BCP locations & 21 schools are in scope to connect to high-speed broadband:

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

BCPs for Connection	Phase
Caherline Community Centre	LIVE
Glenmore Community Centre	LIVE
Coolcappa Community Centre	Planned
Gerald Griffin Resource Centre	Planned
Askeaton Community Centre	Planned
Cappamore Community Centre	Planned
Galbally GAA Club	Planned
Glenroe GAA Club	Planned
Hospital Herbertstown Gaa Club	Planned
Kildimo Gaa Club	Planned
Patrickswell Gaa Club	Planned
Shanagolden Education Resource Centre	Planned
Rathkeale Riverside Training Workshop	Planned
Halla Íde Naofa	Planned

Schools for Connection	Phase
Limerick East Educate Together	In Progress
Gerald Griffin National School	In Progress
Tinnatarriff National School	In Progress
Knocknadea National School	In Progress
Coolcappa National School.	In Progress
Anglesboro National School	In Progress
Mountcollins National School	In Progress
Killoughteen National School,	In Progress
Killinure National School	In Progress
Scoil Tobar Padraig	In Progress
Dromtrasna NS	In Progress
Donoughmore Ns. Donoughmore	In Progress
Caherline National School	In Progress
Lough Gur National School	In Progress
Croagh National School	Planned
Scoil Aine Naofa	Planned
Scoil Naomh Iosef	Planned
Hospital Ns	Planned
Convent Of Mercy NS	Planned
Shanagolden NS	Planned
Scoil Naomh Muire	Planned



Stakeholder Engagement



Sign up on www.nbi.ie
to keep up to date with developments in your area

Email for political reps: reps@nbi.ie

Contact us on: **0818 624 624**
email: contactus@nbi.ie

