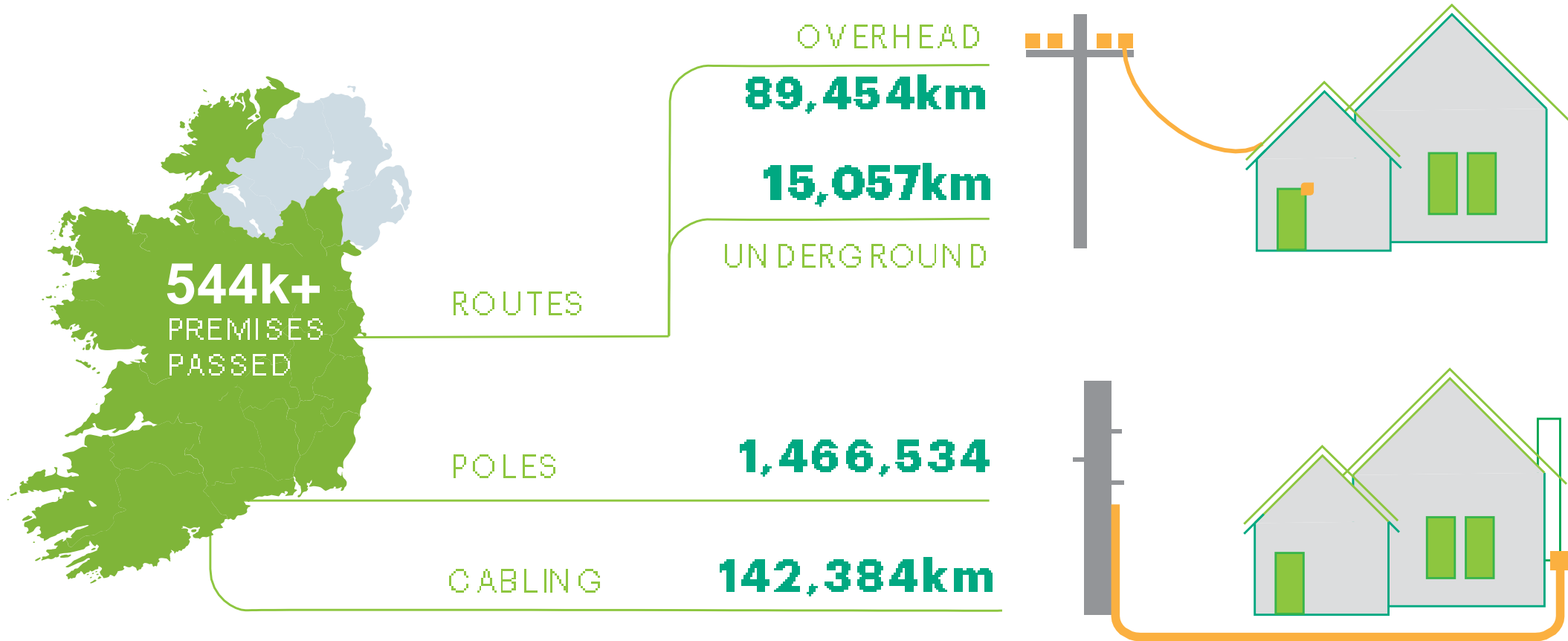
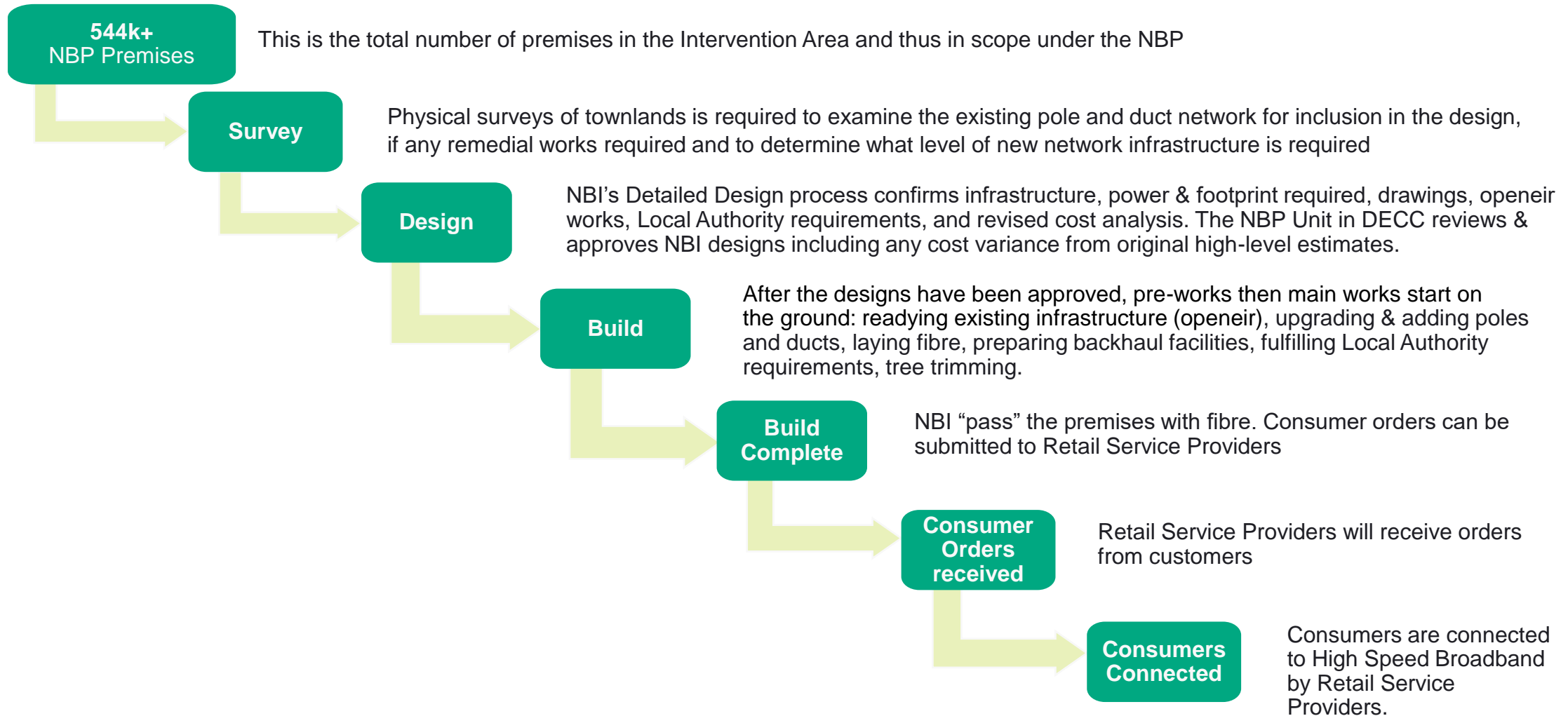


National Broadband Plan Project Overview

What we're delivering

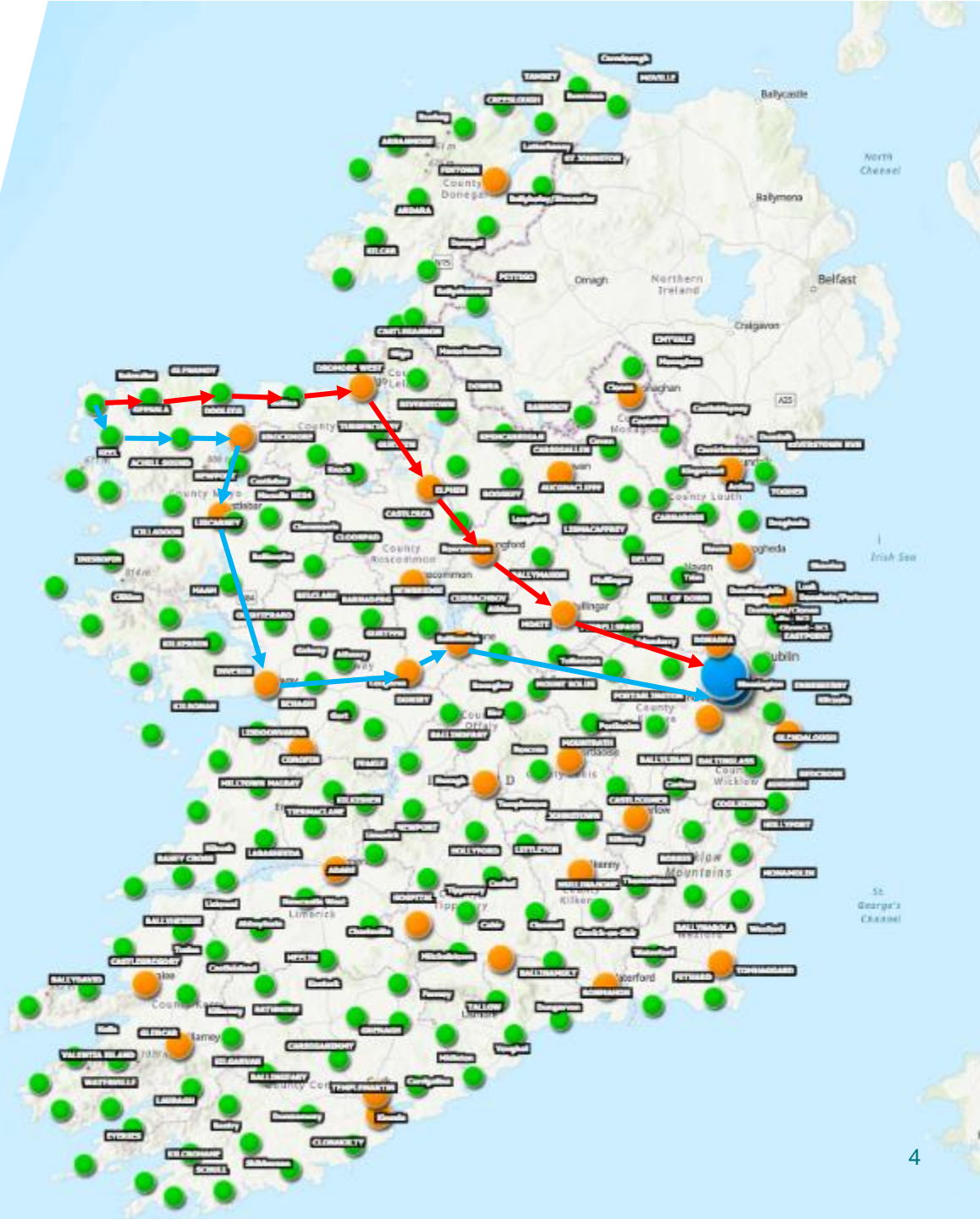


NBI's Network Design and Build Process



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 to 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.

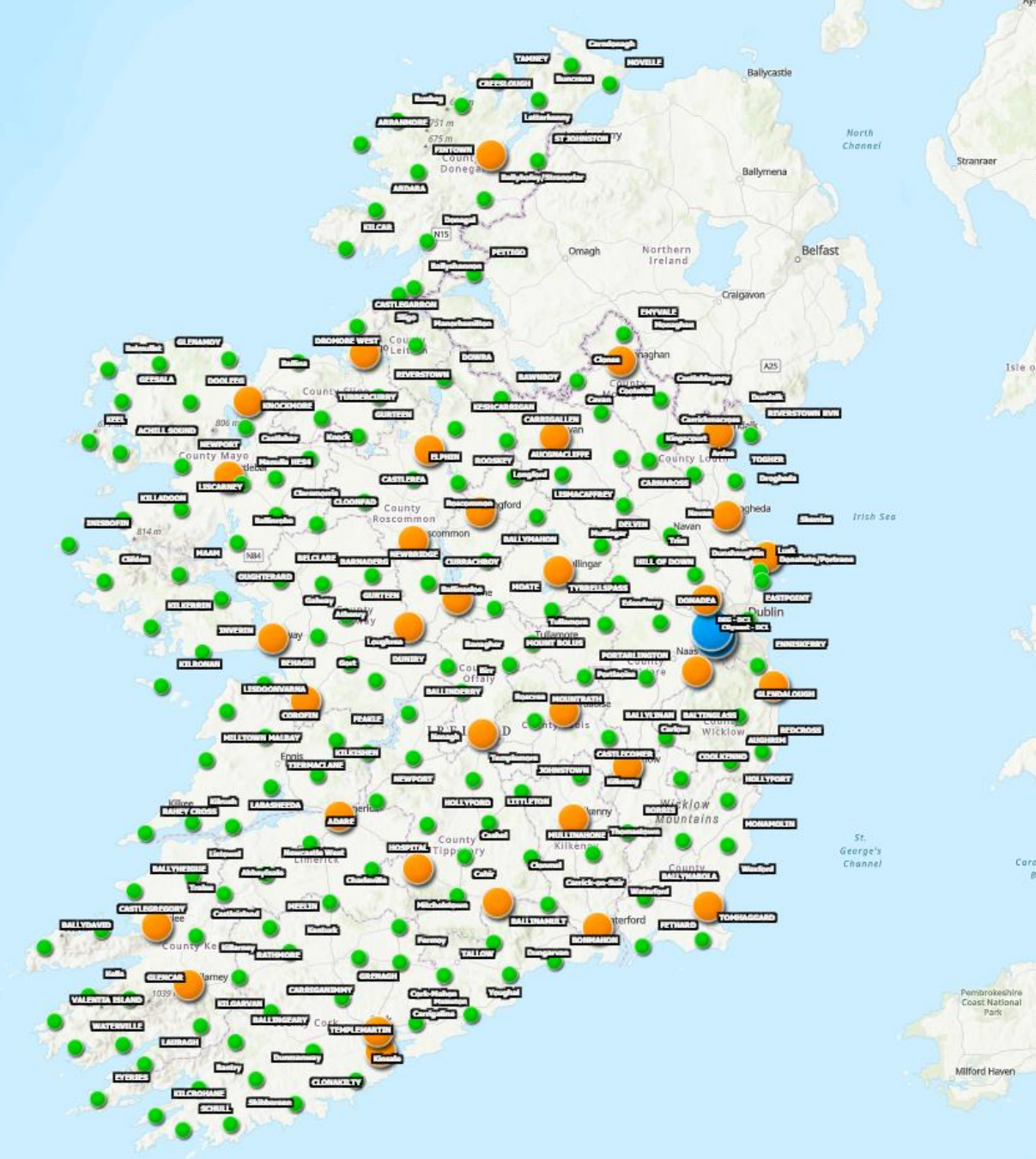
- **33 Regional Exchanges**

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

- **194 Local Exchanges**

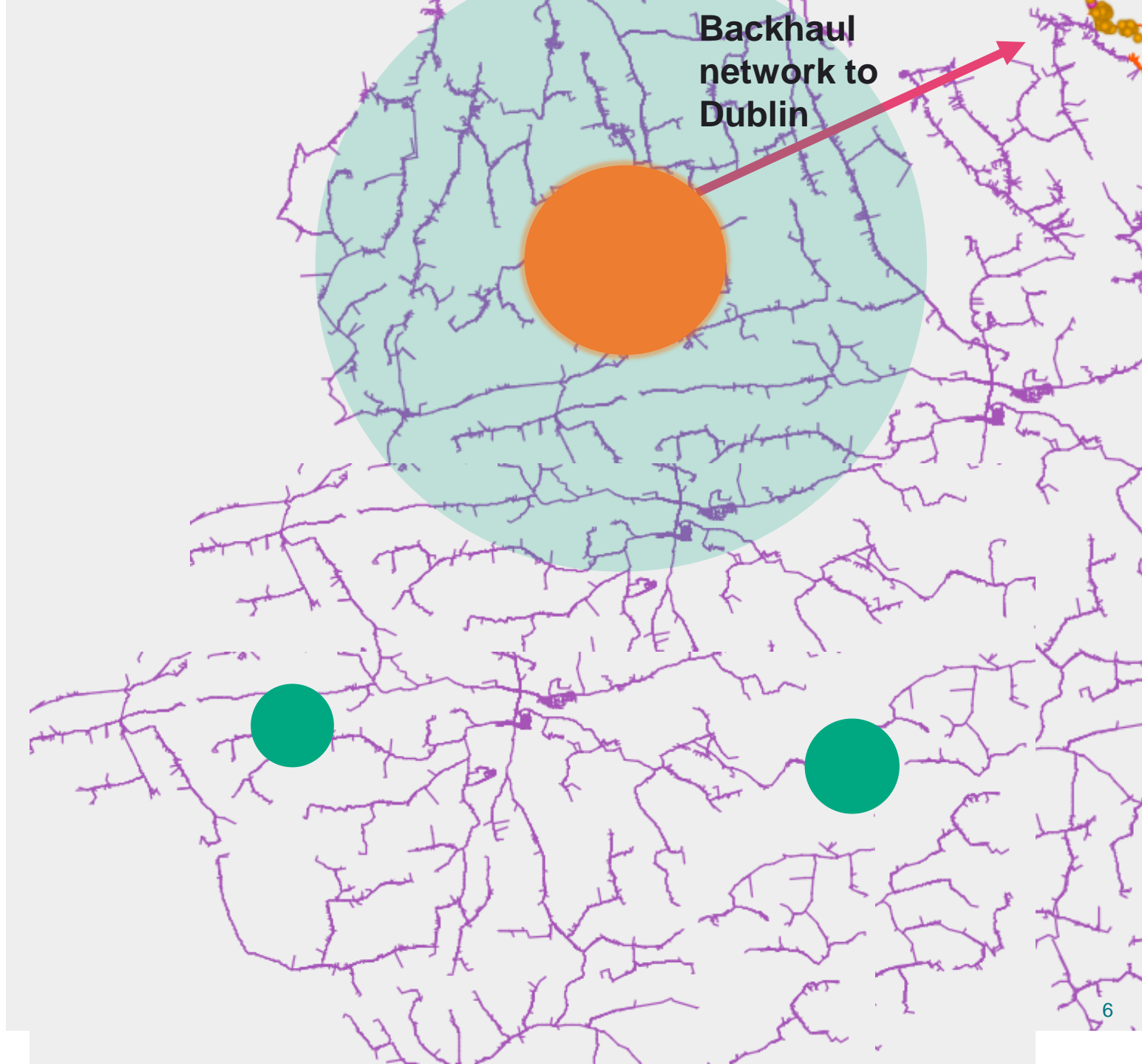
All local exchanges **connect to their nearest Regional Exchange**. These areas are built after the Regional Exchange area is built.

- 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.

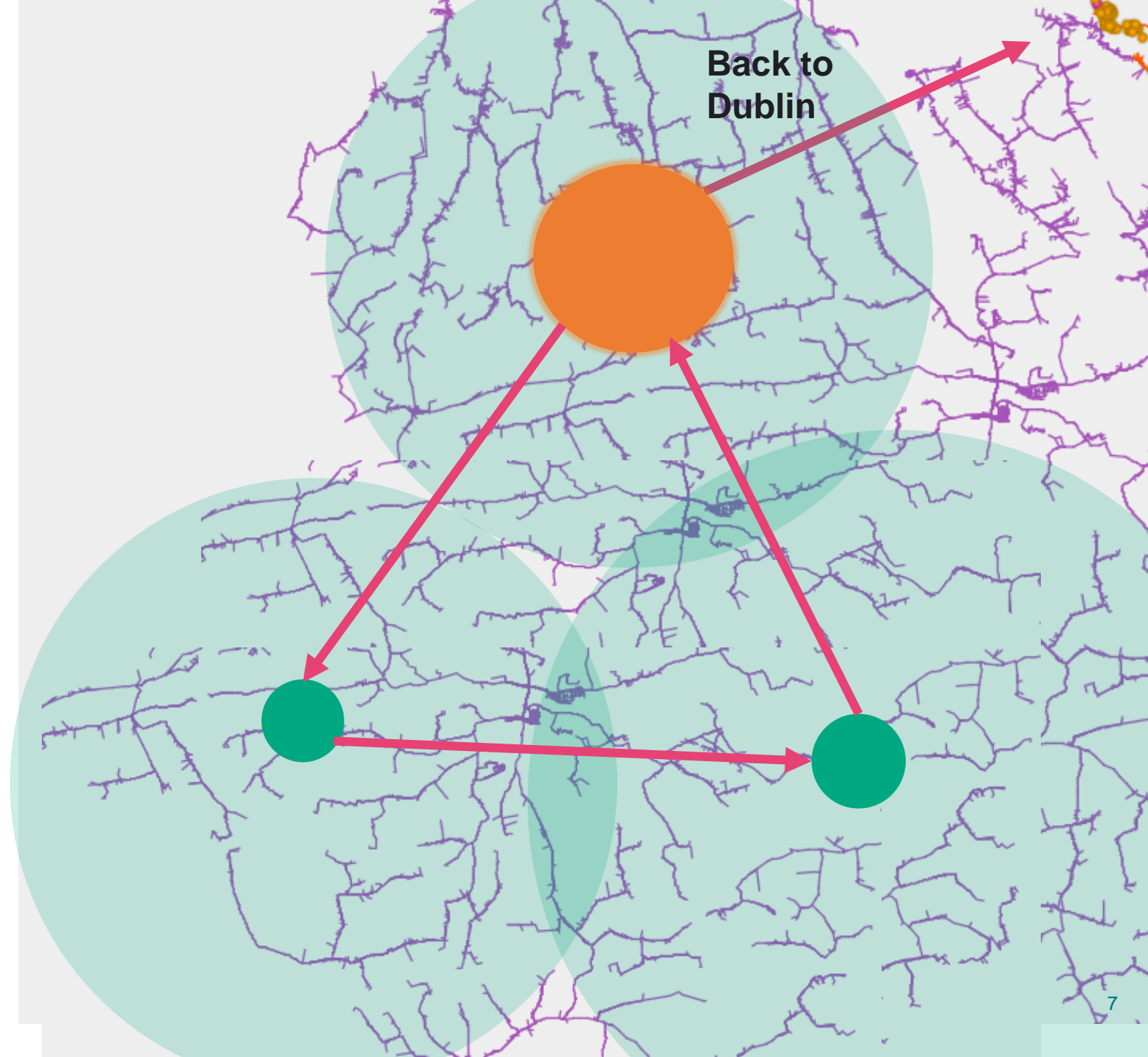


Local Exchanges

- 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.

