

Fastershire

Phase 2 Update

19/6/17

Faster broadband for Herefordshire and Gloucestershire

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Agenda



- **Part 1**

- Broadband - the Basics
- FasterShire Background & Strategy
- What's been achieved & contracted to date
- Responses to advanced Questions

- **Part 2**

- What if we're still not covered?
 - ERDF
 - EAFRD
 - Contract Extensions



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What's the Problem?



- Fast, reliable and resilient internet access increasingly important for business and society
- Growing number of commercial and service interactions delivered exclusively On-Line
- Greater need to run multiple applications across the same connection
- Data consumption increasing c. 30% Per year
- Increased need to access fast upload potential particularly for some business sectors



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Broadband – The Basics



- **Infrastructure**

- High bandwidth internet access
- Superfast = Infrastructure capable of supporting download speeds >30Mbps
- Different technologies can provide access but not all are comparable

- **Services**

- 30Mbps (minimum bandwidth for ‘Superfast’ or ‘Next Generation Access’)
- Download vs Upload – Can be Symmetric / Asymmetric
- Many suppliers offer different products and services via the infrastructure
- ‘Speed’ is never guaranteed and can vary by provider, time of day, location etc.
- The advertising of retail services is governed by the Ofcom and ASA



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Public Funding



- All public subsidy is subject to State Aid approval
- Market Failure must be proven
 - Suppliers can be intentionally opaque and protective of their data
 - What will not become viable in the next 3 years
 - Suppliers not obliged to deliver on their claims
- We can only intervene to ensure Premises achieve either >2Mbps (USC) or >30Mbps (NGA) capability.
- We can't fund incremental improvements regardless of the benefit those improvements could have
- We can only invest in Infrastructure that enables multiple ISPs to offer retail services to consumers



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Lies, Damned Lies & Broadband Data



- The data is incomplete, inaccurate & inconsistent
- Most suppliers use their own proprietary data
- Matching different data is complex with no common identifier
- Speed data is often 'modelled' and not measured
- Independent validation does not stand up to scrutiny
- Consumer experience rarely reflects line capability
- We try to present the most accurate picture we see but this is only as good as what we get from suppliers



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Fastershire Background



- Partnership between Herefordshire & Gloucestershire Councils Established 2011
- Conduit for Public funding to overcome market failure to provide superfast broadband
- Also focused on encouraging adoption and exploitation

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fasterwomen fasterfarmers

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The Challenge



- NGA Broadband (and for the most part Fibre) viewed as the future proofed solution
- Commercial Deployment to date has only extended into the more urban areas of the UK but not solely a rural / urban divide
- Market Failure to provide universal infrastructure
- Viability in rural Herefordshire and parts of Gloucestershire some of the lowest in the UK
- Like peeling the proverbial onion

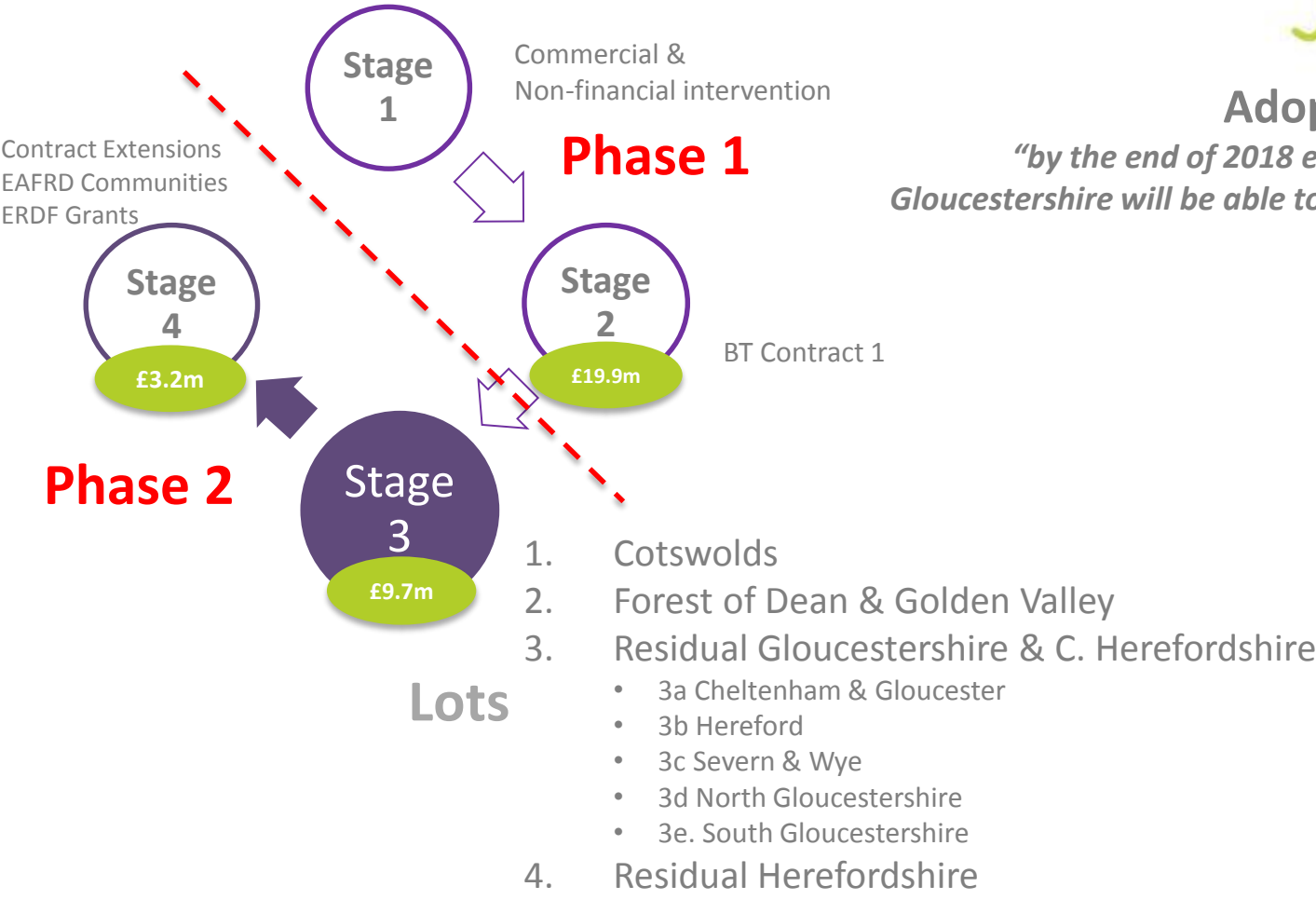
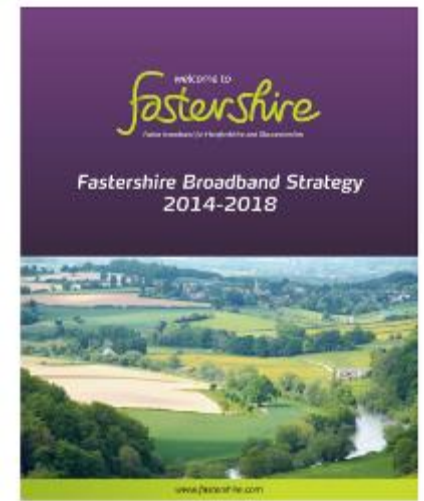


Fastershire Broadband Strategy



Adopted December 2015

“by the end of 2018 everyone in Herefordshire and Gloucestershire will be able to order the broadband service they need”.



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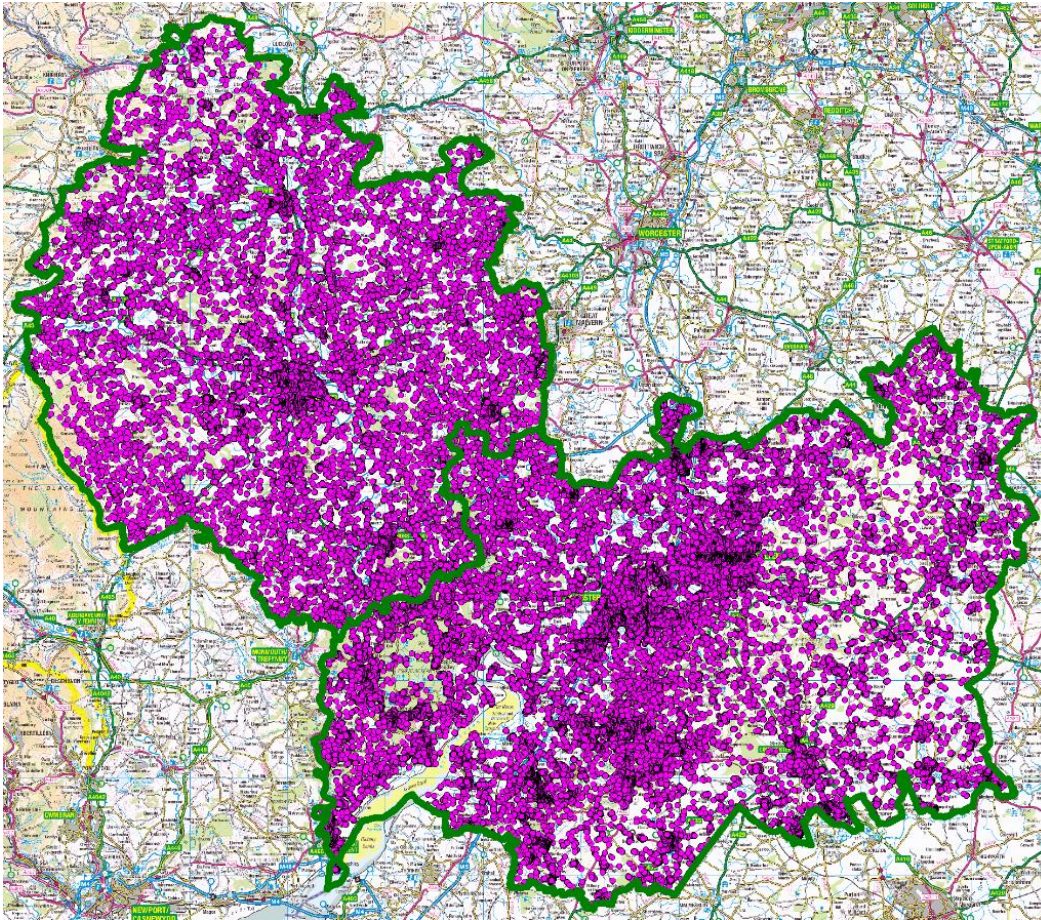


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All Premises

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| | Total Properties |
|-----------------|------------------|
| Gloucestershire | 334,614 |
| Herefordshire | 86,826 |

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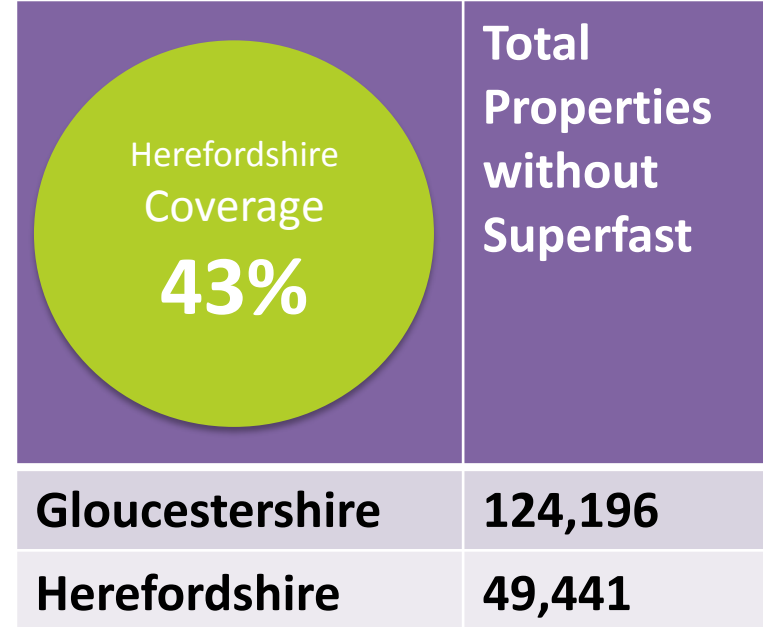
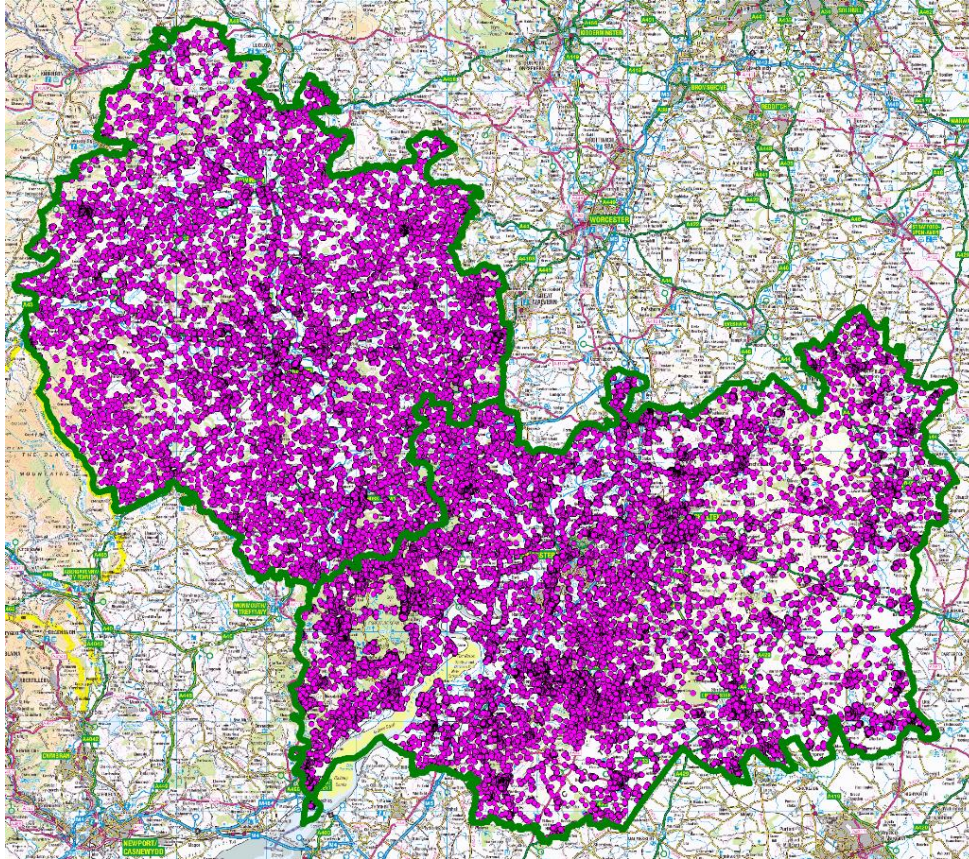


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Phase 1

Stage 1 Commercial Provision



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Phase 1

Stage 2 BT Contract



- Signed December 2012
- Complete December 2016
- £35.5m (£19.85m Hfds)
- To reach c. 88% with >30Mbps
- 109k Target (36k Hfds)



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BT Fibre Technology

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Fibre To The Cabinet (FTTC)

The fibre connection goes to a powered cabinet in the street.
The final connection to premises is on copper.



Up to
80Mbps

Fibre To The Premise (FTTP)

The fibre connection goes all the way from the main network to the premises.



Up to
330Mbps

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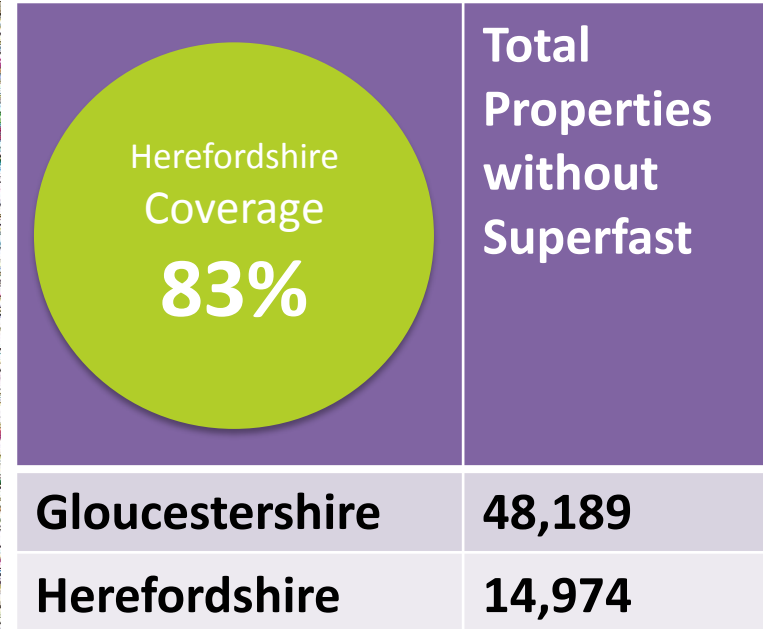
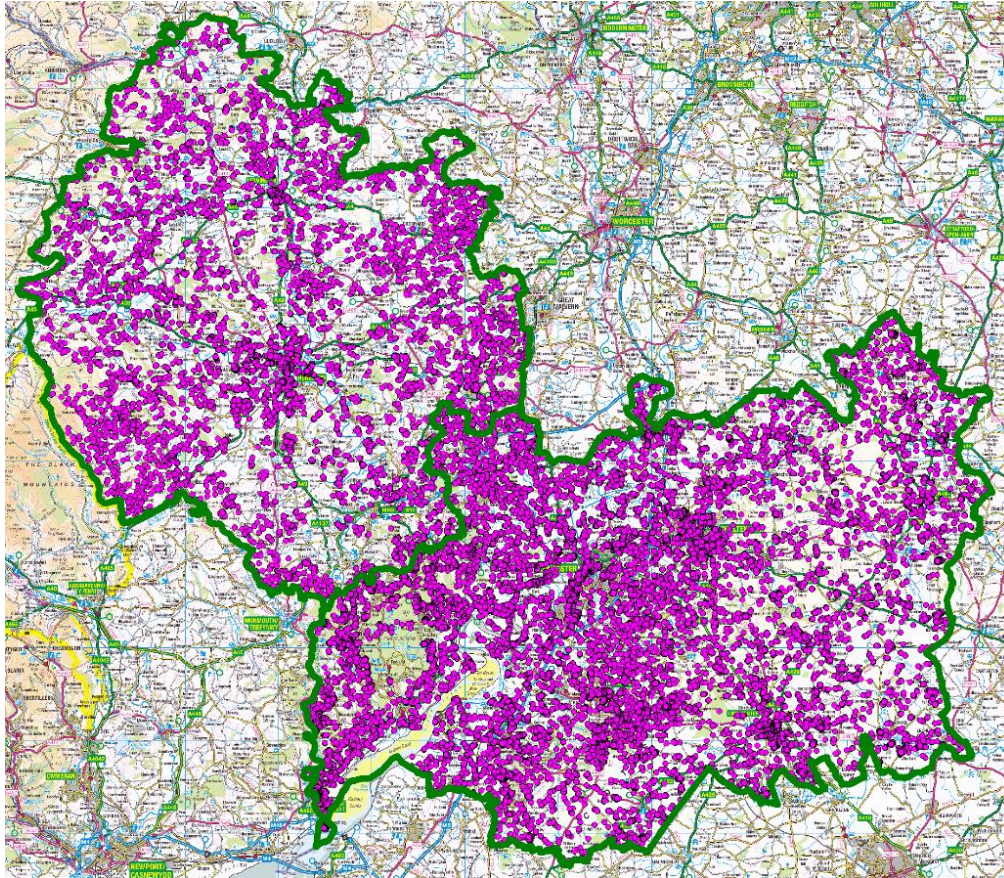
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Phase 1 Stage 2 BT contract



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Phase 2

Stage 3 New Lot procurements



- C. 15,000 Premises remain <30Mbps
- Exponentially more difficult to reach
- Nearing the limits of BT's capabilities

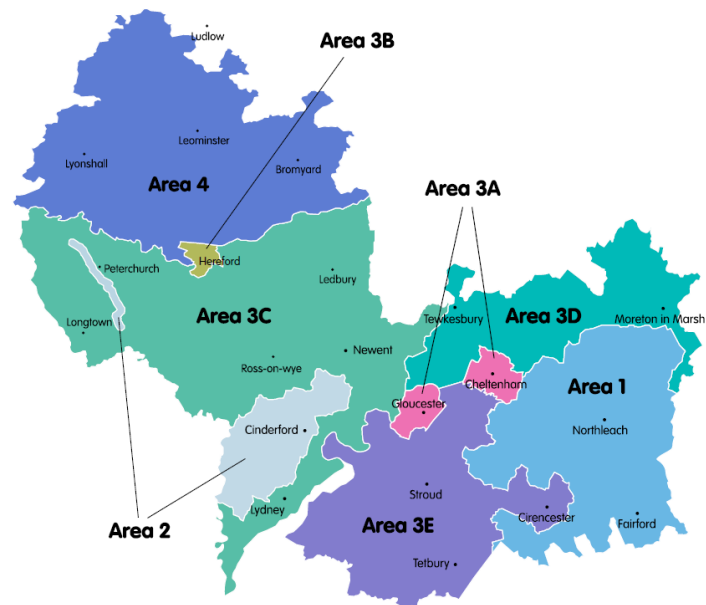
BUT

- New market entrants
- Lot approach increasing potential supplier pool
- Procurements now complete

Phase 2 Roll-out

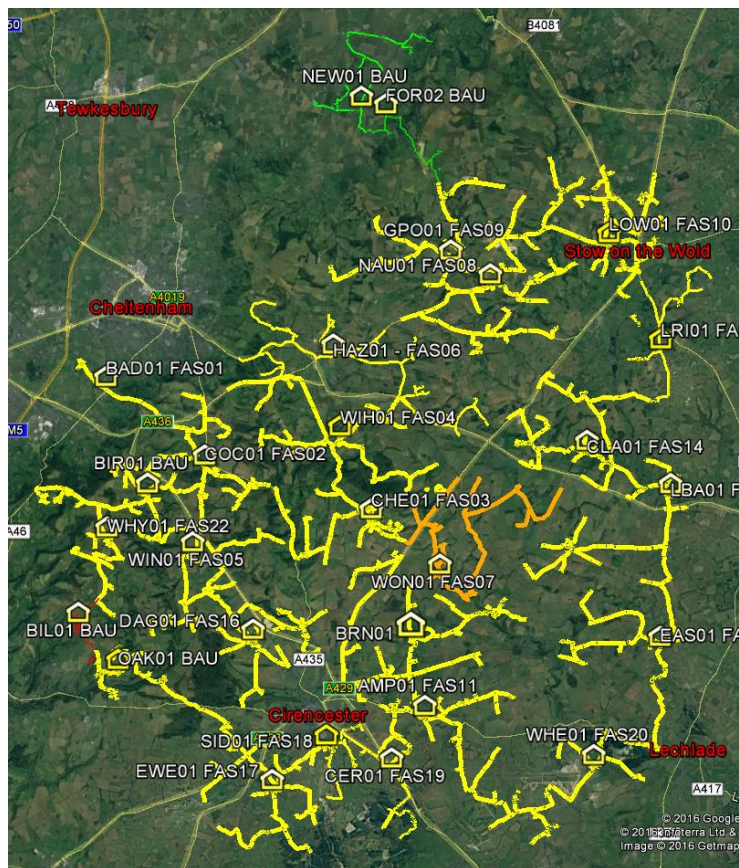
The next phase of rollout comprises premises that were not covered by Phase 1 or commercial rollout and is based around the following areas:

- Area 1: The Cotswolds
- Area 2: The Forest of Dean
- Area 3A: Cheltenham and Gloucester
- Area 3B: Hereford
- Area 3C: South Herefordshire and Gloucestershire (west of the Severn)
- Area 3D: North Gloucestershire
- Area 3E: South Gloucestershire
- Area 4: North Herefordshire

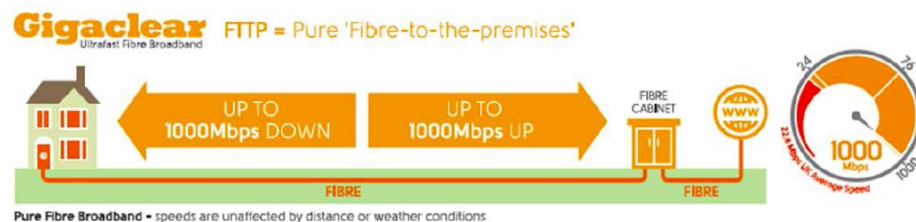


Lot 1 Gigaclear

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- First non BT contract of its scale
- Awarded in 2015 before expiration of previous state aid regime
- 6,500 FTTP 1Gb Synchronous
- >5,000 prems passed to date
- On track to complete in the summer
- Enables commercial expansion
- Gigaclear now awarded all rural Lots



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How do they build it?

- High level design
- Detailed design
- Build out from a Backhaul point
- Cabinet Build
- Incremental activation
- Cabinets include Diverse routing



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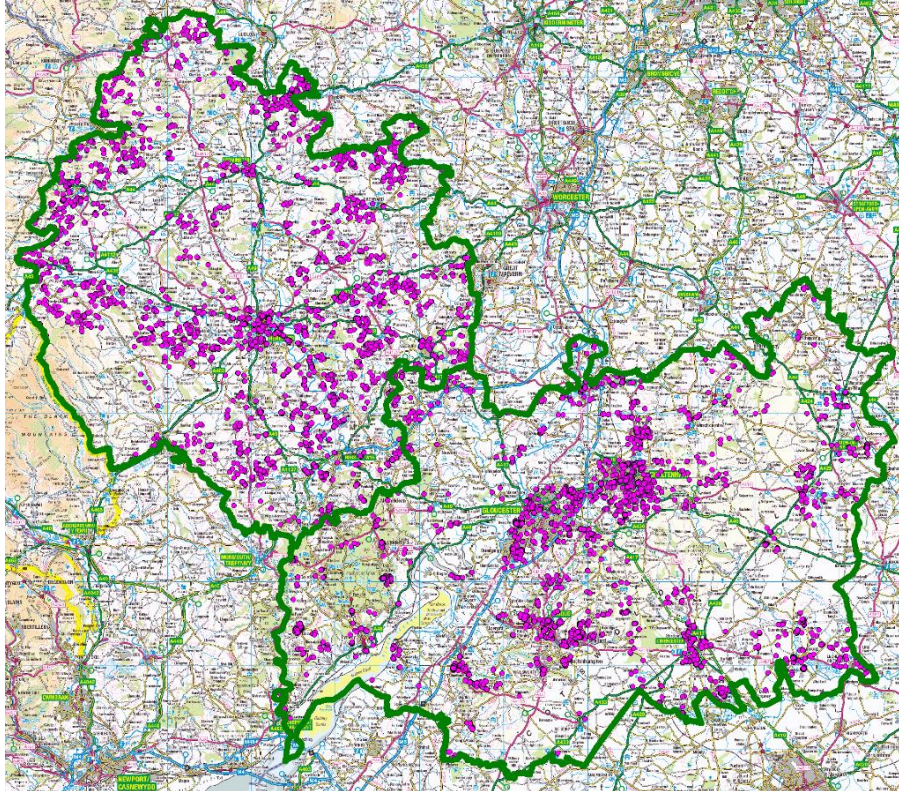
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Phase 2 Stage 3 Gigaclear (& BT) contract



| | |
|--------------------------------------|---|
| Herefordshire Coverage 93% | Total Properties without Superfast |
| | Gloucestershire 9,460 |
| Herefordshire 4,015 | |

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Phase 2

Stage 3 Gigaclear Scheduling



| Network | Lot | Start | Complete |
|---------------------|----------|------------|------------|
| Bishops Frome | Lot 4 | 06/10/2017 | 09/02/2018 |
| Evesbatch | Lot 4 | 20/10/2017 | 23/02/2018 |
| Pencombe | Lot 4 | 20/11/2017 | 23/03/2018 |
| Stoke Prior | Lot 4 | 20/11/2017 | 23/03/2018 |
| Hope Under Dinmore | Lot 4 | 27/11/2017 | 06/04/2018 |
| Welsh Newton | Lot 2 3c | 21/06/2018 | 07/12/2018 |
| Golden Valley North | Lot 2 3c | 05/07/2018 | 21/12/2018 |
| Golden Valley South | Lot 2 3c | 19/07/2018 | 04/01/2019 |
| Abbey Dore | Lot 2 3c | 02/08/2018 | 18/01/2019 |
| Garway | Lot 2 3c | 16/08/2018 | 01/02/2019 |

Note

1st 5 areas in each Lot

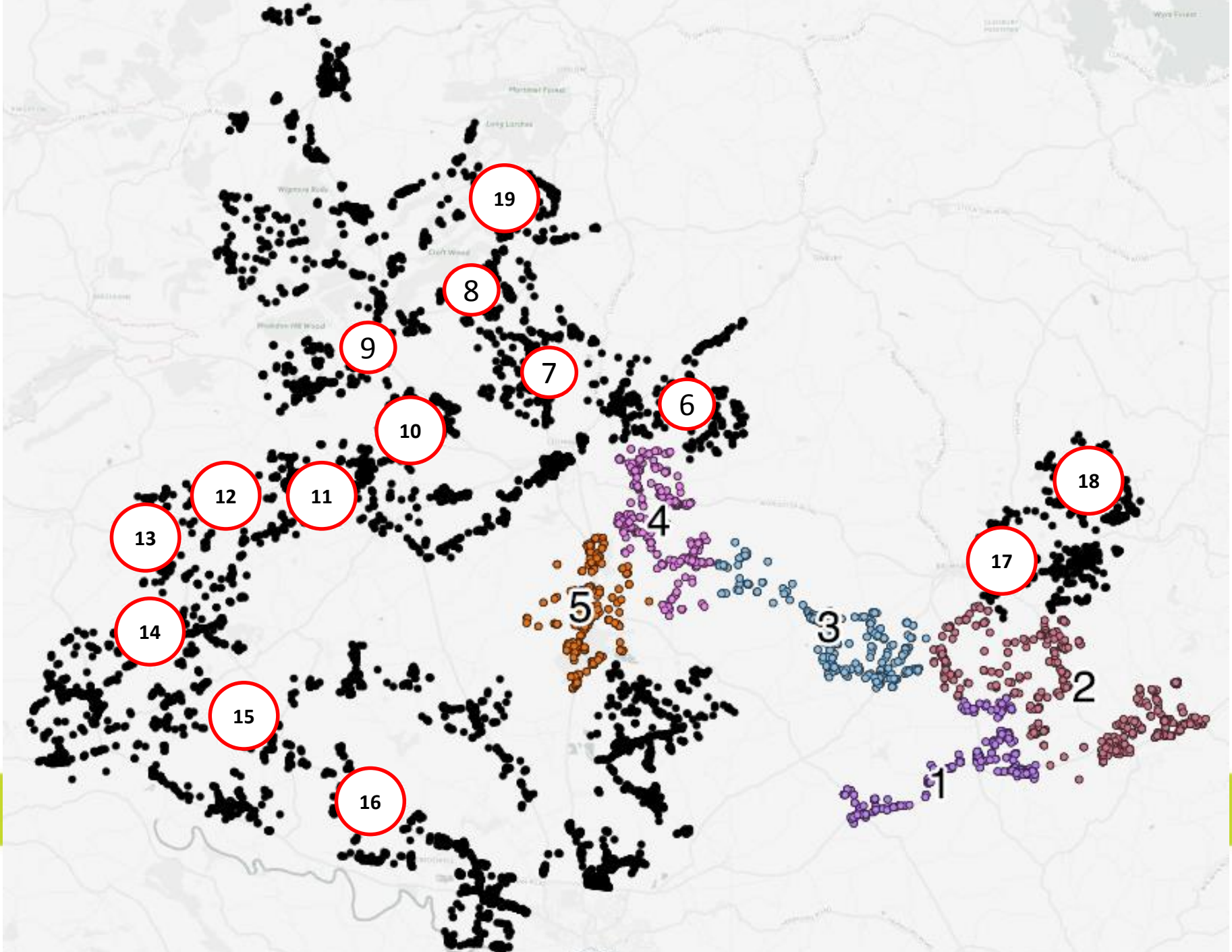
Network names relate to general location and may change

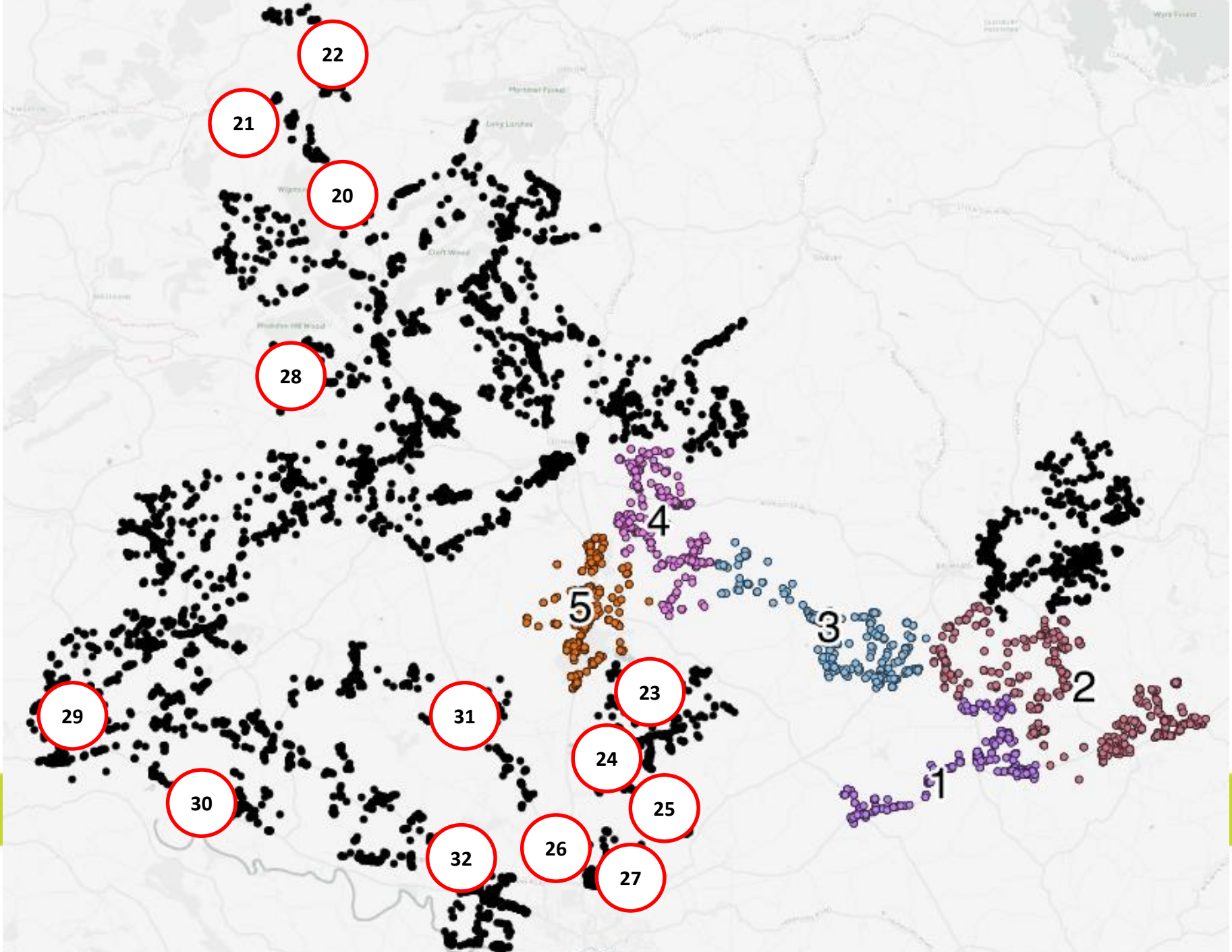
Lot 2/3c Later due to backhaul access



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22

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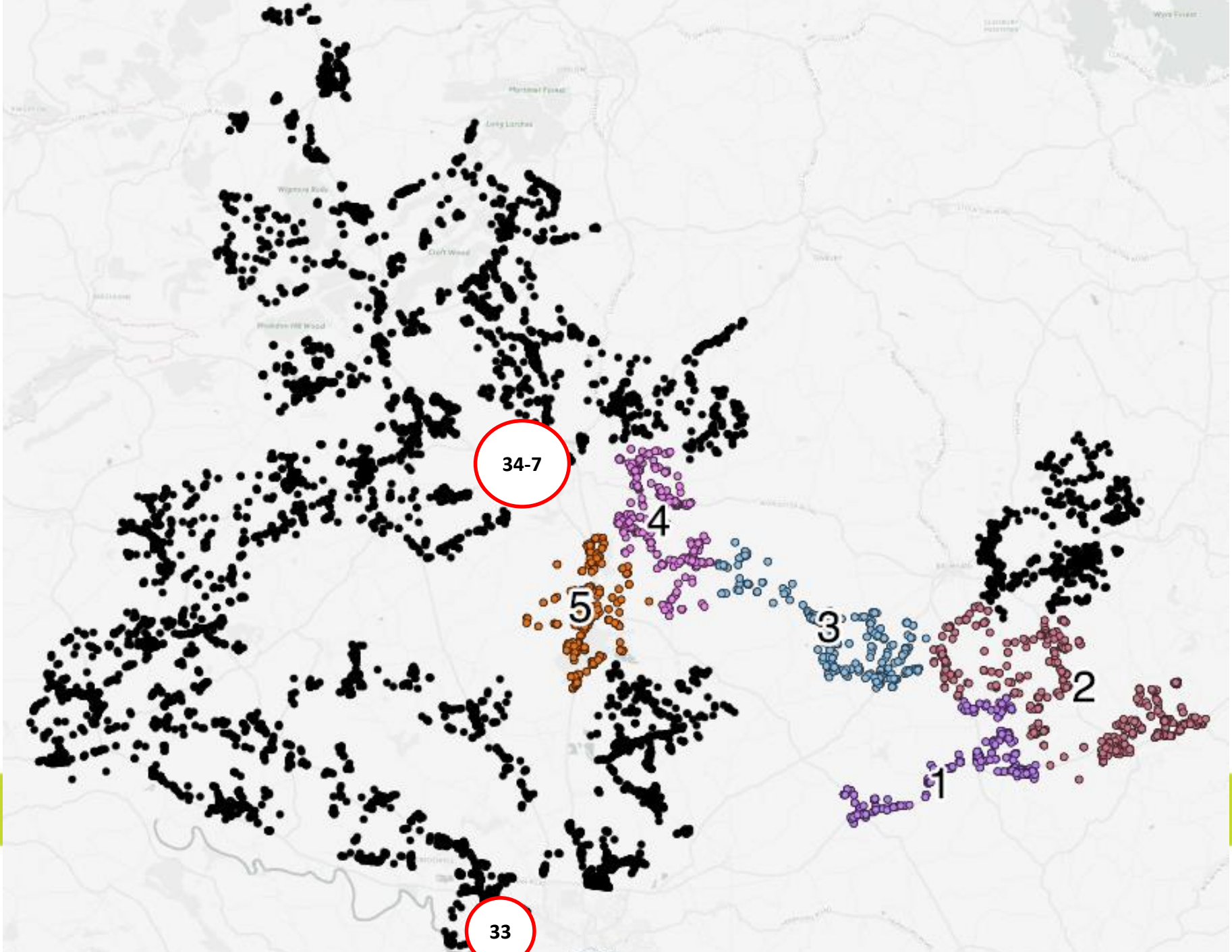
30

32

26

27

1



34-7

4

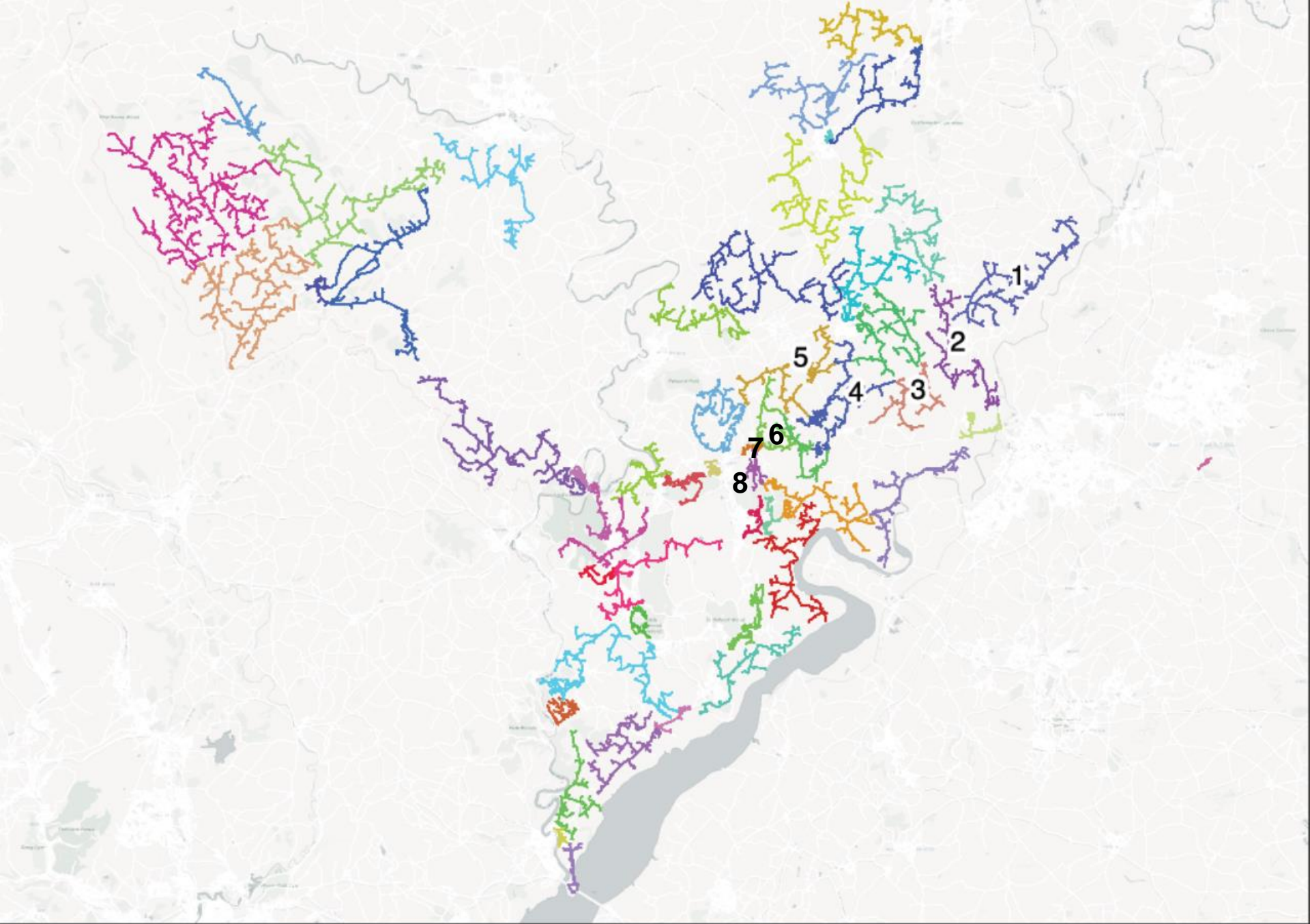
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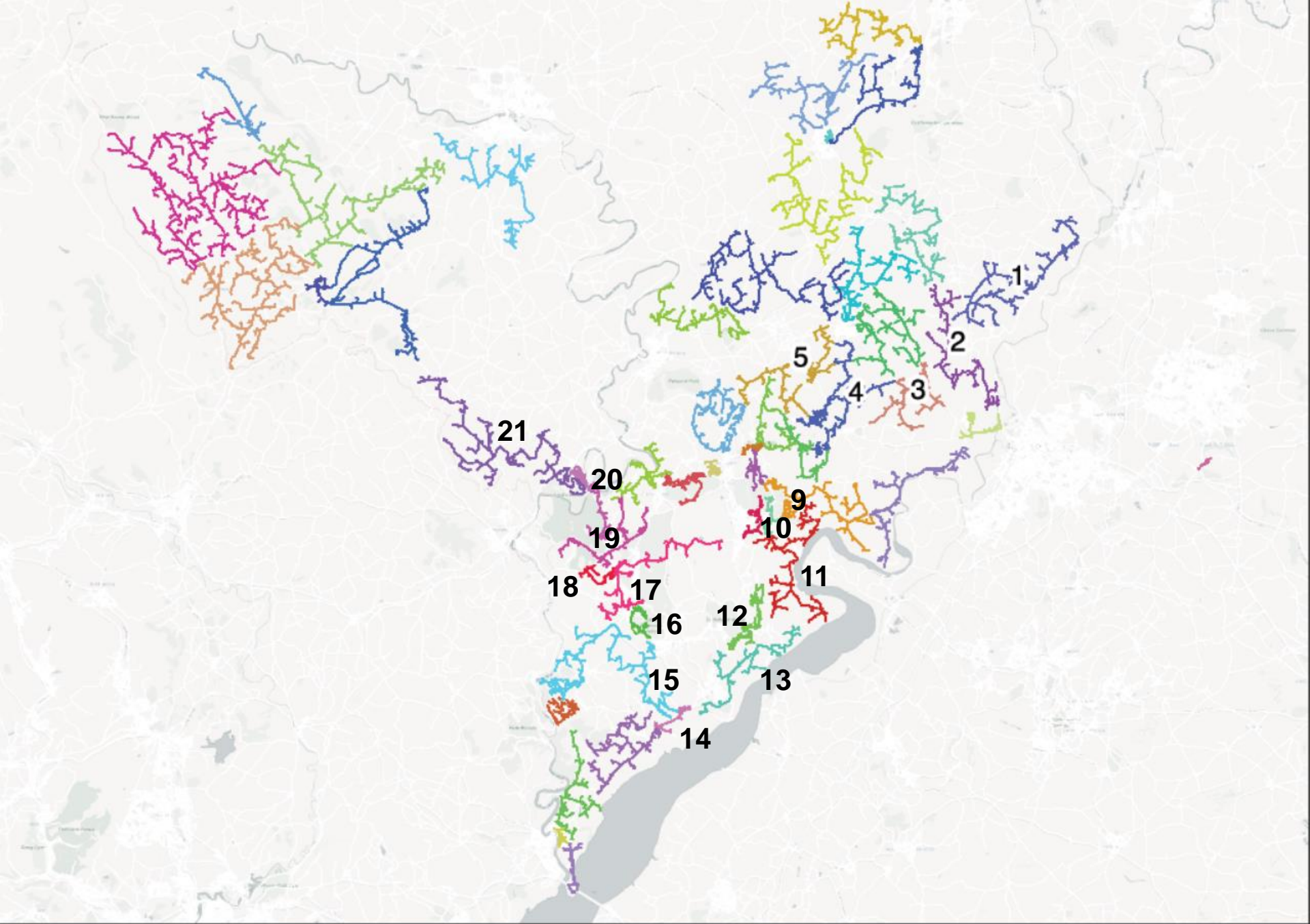
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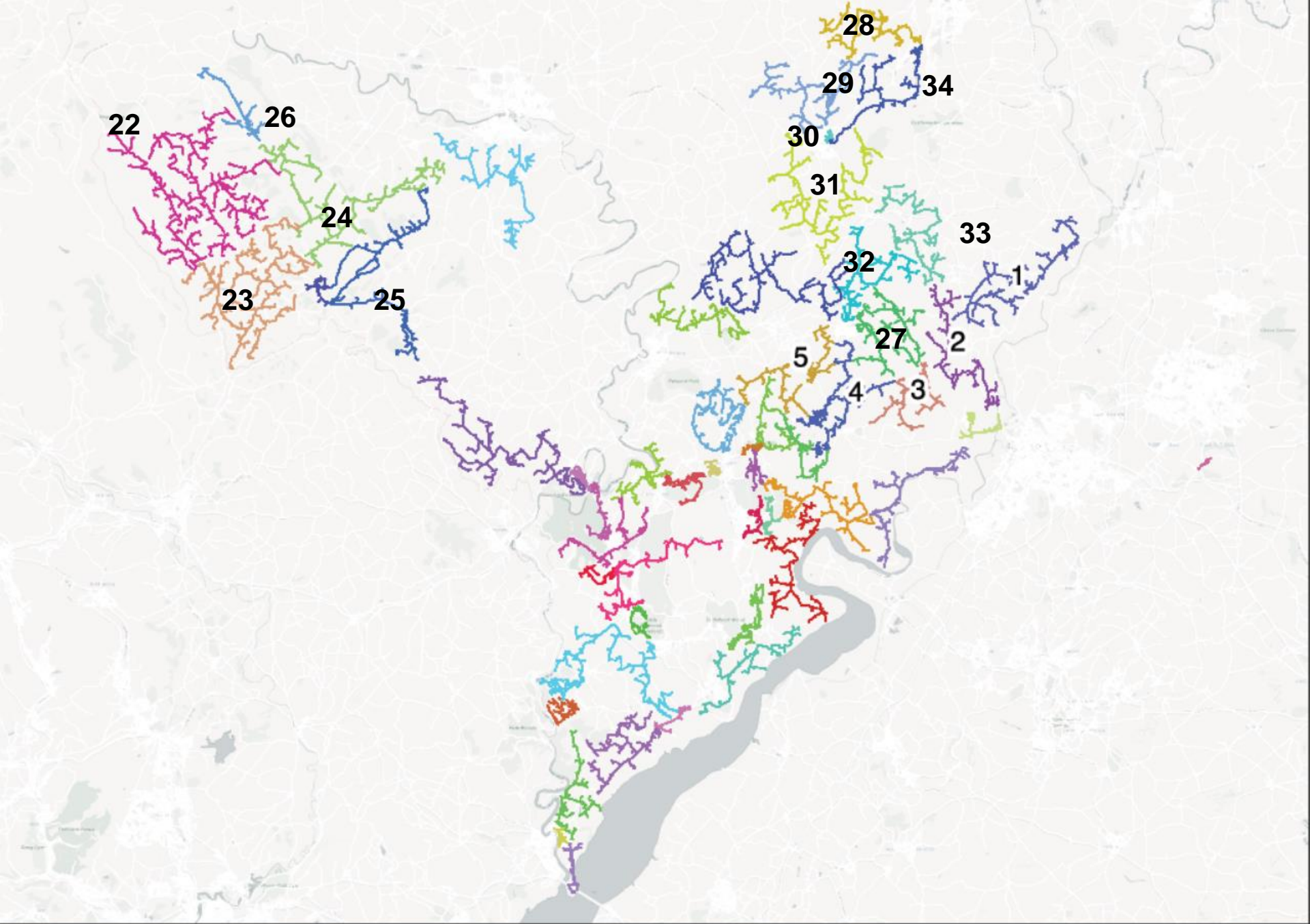
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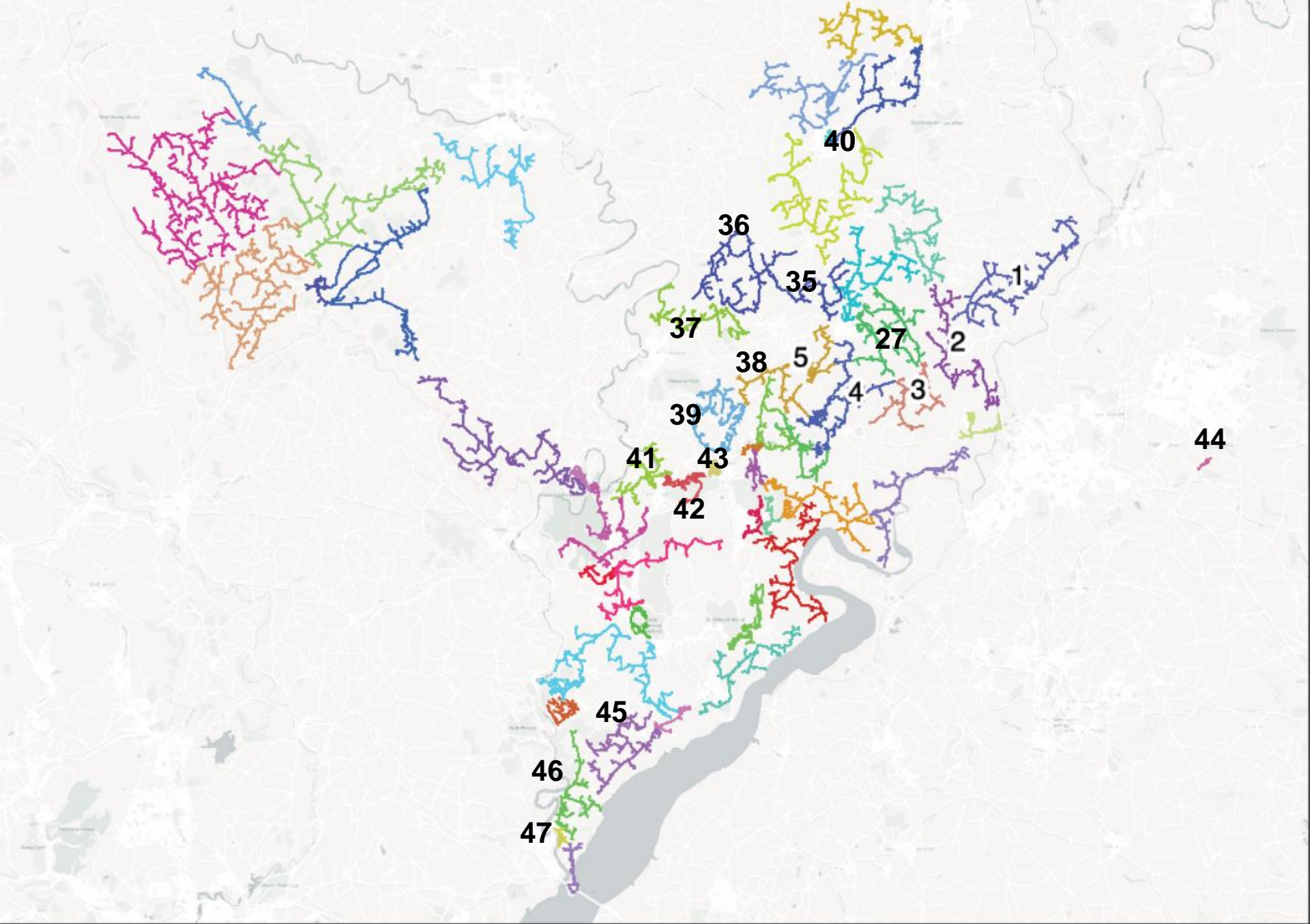
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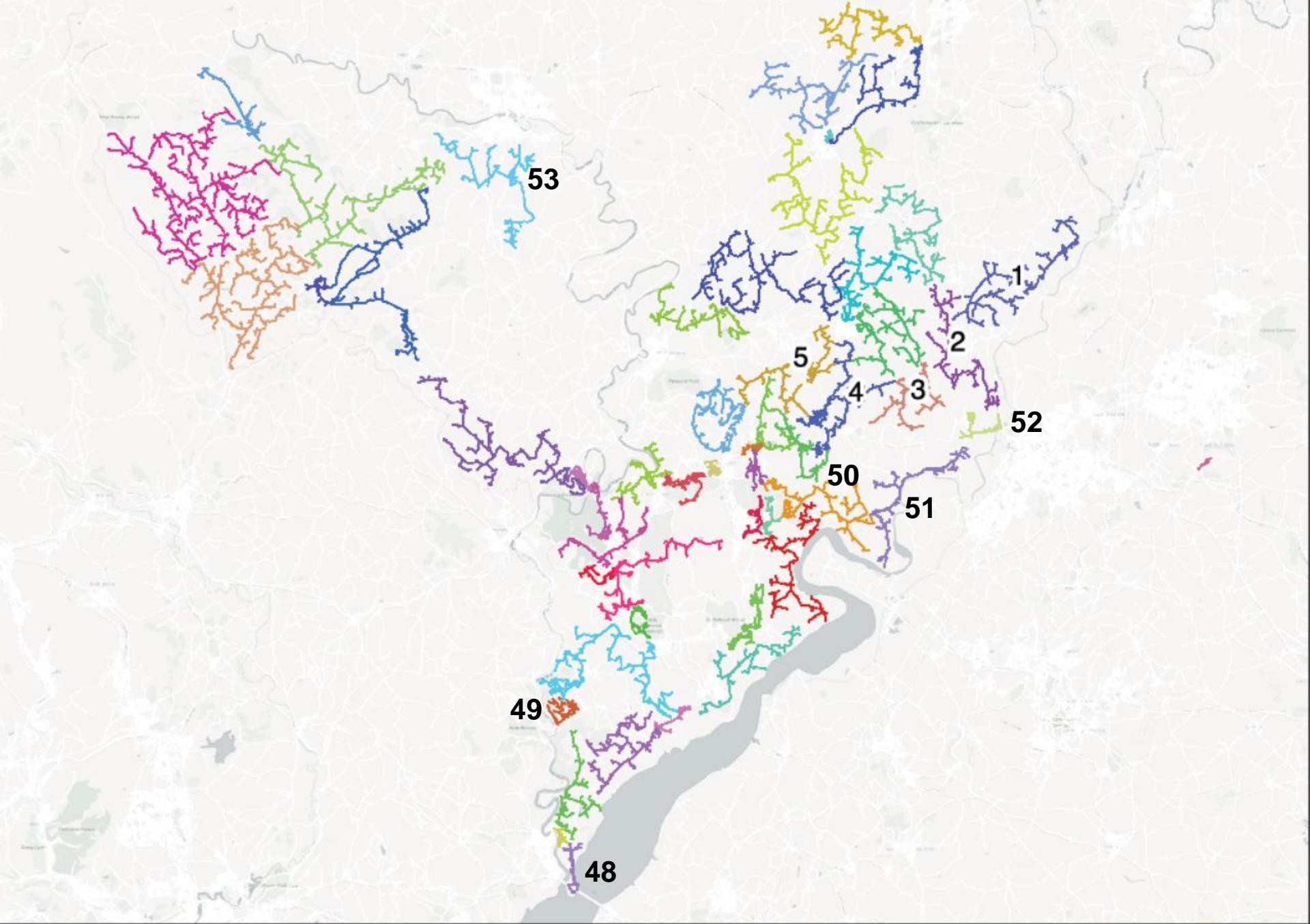
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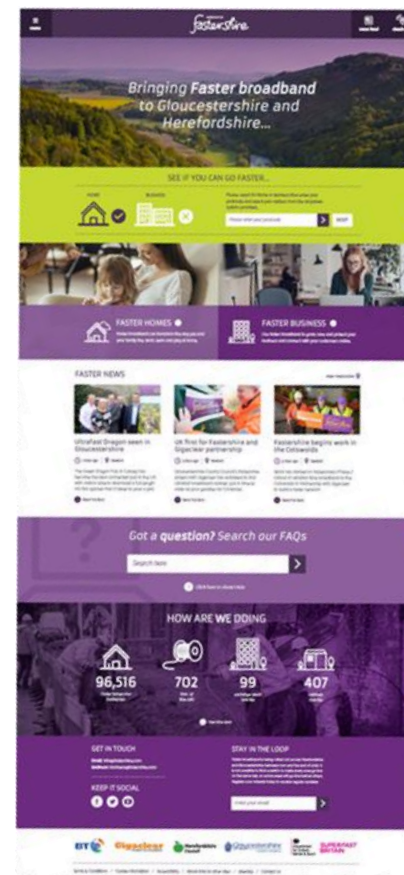




How will people know?

- Still have to physically order
- General Marketing
- Postcards
- New Website
 - now driven by our data
 - personalized 'call to action' (CTA)

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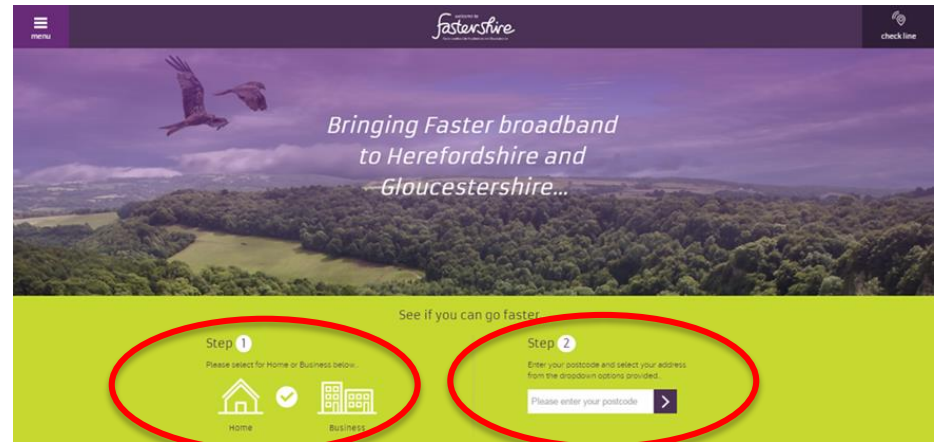
New Website



The website now provides a personalised 'call to action' (CTA) based on the address data. This allows us to simplifying the way a user navigates the site and improving the communication process.

User journey – Example 1

User selects 'Home' or 'Business' before entering their postcode and selecting their address from drop down menu



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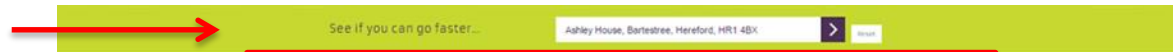
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New Website

User journey – Example 1

User's Address

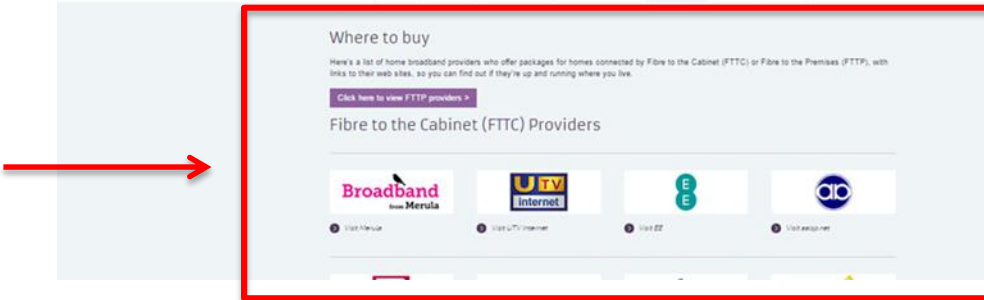


Response: Fibre Enabled



Website generates response based on address data.

CTA: Where to buy



Website generates call to action based on address data.

Keep up to date...

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Be social...faster.
Wherever ewe are in the world.



Upgrade to fibre broadband and catch-up with friends and family. Whether making video calls or sharing photos. **Ewe won't believe how fast it can be!**

FasterShire – The place where you can do more.

Go to www.fastershire.com to:-

- Register your details to receive our newsletter and we'll be in touch when it's available to you
- Find out the latest on the project
- Future phases go to

<http://www.fastershire.com/where-when/strategy>

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How can you help?



- Spread the word - Direct people to the website
- Help set expectations
- Wayleaves
- Signpost businesses & groups interested in training

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Q&A



- Which other service providers operate over the Gigaclear infrastructure?
- Will households need extra or upgraded equipment from their Broadband provider to take advantage of fibre optic?
- Where fibre is available, why is it some residents, even in the same street, have difficulty connecting to the service while others do not?
- When will it be coming to
 - Pencombe
 - Ridgehill
 - Walterstone Common



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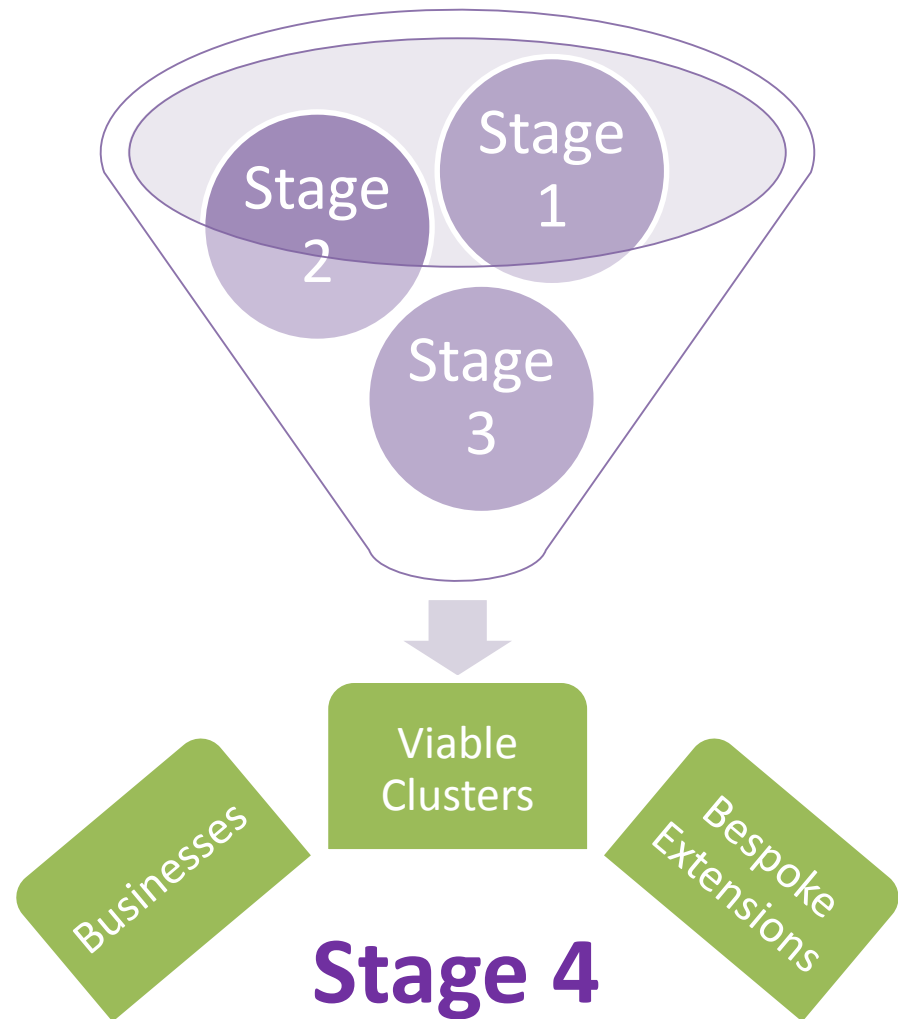
| Parish | Stage 1 Ass BT | Stage 1 BT Conf BT | Stage 1 HCN | Stage 1 WarwickNet | Stage 2 | Stage 2 BT 330 FTTP | Stage 2 BT Over 30 | Stage 3 BT | Stage 3 GC | Stage 3 GC - CR | Still to do | Grand Total |
|---------------------------------|----------------|--------------------|-------------|--------------------|---------|---------------------|--------------------|------------|------------|-----------------|-------------|-------------|
| Acton Beauchamp CP | 27 28% | 1 | | 29% | 35 | | 36% | | 34 | 35% | 0% | 97 |
| Allensmore CP | 19 7% | 5 | | 9% | 109 | | 39% | | | 138 49% | 9 3% | 281 |
| Birley with Upper Hill CP | 34 21% | 1 | | 22% | 84 | | 52% | | 2 | 1% | 40 25% | 161 |
| Bosbury CP | 65 16% | 3 | | 17% | 218 | | 54% | 1 | 47 | 28 18% | 45 11% | 407 |
| Brampton Abbotts CP | 17 10% | | | 10% | 61 | | 37% | | | 84 51% | 3 2% | 165 |
| Callow CP | 3 8% | | 12 | 41% | 5 | | 14% | | | 16 43% | 1 3% | 37 |
| Canon Pyon CP | 64 21% | 4 | | 22% | 209 | | 68% | | 29 | 9% | 1 0% | 307 |
| Coddington CP | 5 10% | | | 10% | | | 0% | | 37 | 9 90% | 0% | 51 |
| Eggleton CP | 7 23% | | | 23% | 1 | | 3% | | 7 | 23% | 15 50% | 30 |
| Foy CP | 20 18% | | | 18% | 24 | | 22% | | | 34 31% | 32 29% | 110 |
| Hatfield and Newhampton CP | 20 22% | 1 | | 24% | 56 | | 64% | 1 | | 0% | 11 12% | 89 |
| Haywood CP | 27 21% | 6 | 19 | 40% | | | 0% | | | 72 56% | 5 4% | 129 |
| Kinnersley CP | 42 34% | | | 34% | 2 | | 2% | | 81 | 65% | 0% | 125 |
| Longtown CP | 29 9% | | | 9% | 144 | | 45% | | | 145 45% | 1 0% | 319 |
| Lower Bullingham CP | 313 26% | 675 | | 81% | 157 | | 13% | | | 70 6% | 8 1% | 1223 |
| Marden CP | 107 16% | 22 | | 19% | 353 | | 51% | | 205 | 30% | 0% | 687 |
| Pembridge CP | 141 22% | 2 | | 22% | 324 | | 50% | | 140 | 22% | 35 5% | 642 |
| Pencombe with Grendon Warren CP | 31 18% | 2 | | 19% | 87 | | 49% | | 34 | 19% | 22 13% | 176 |
| Pixley CP | 43 41% | | | 41% | 51 | | 50% | 2 | | 0% | 9 9% | 105 |
| Pudleston CP | 24 22% | | | 22% | 6 | | 6% | | 78 | 72% | 1 1% | 109 |
| Richards Castle (Hereford) CP | 34 22% | | | 22% | 102 | | 71% | 8 | 4 | 3% | 8 5% | 156 |
| Titley CP | 27 24% | 2 | | 26% | 48 | | 43% | | | 0% | 34 31% | 111 |
| Wellington Heath CP | 38 14% | | | 14% | 12 | | 4% | | 181 | 44 82% | 1 0% | 276 |

Phase 2

Stage 4

The next layer of the Onion

- Clear from Day 1 who is not covered
- We have moved beyond sequential stages and can start deploying alternative solutions immediately
- Therefore we can deliver Stage 4 over a similar timeframe as Stage 3



Businesses

ERDF

- Marches & Gloucestershire Business Broadband Grant
- £1.3m exclusively for Herefordshire
- Up to £25k per business of up front capital funding
- NGA / Business Grade Broadband to individual SMEs
- Can be aggregated
- Beneficiaries will need to demonstrate economic benefit
- Managed through an Online Portal that allows eligible SMEs to illustrate their requirements and receive compliant quotes in a timely manner
- 20+ suppliers registered
- www.mgbroadbandgrants.com



European Union
European Regional
Development Fund

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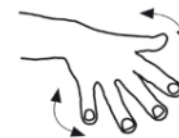


Farms involved only with primary production
Steel Manufacturing
Retail
Warehousing & storage
Transport
Accommodation
Financial services
Real estate
Travel agents
Residential care
Public services
Betting shops



ADSL

Satellite
Point to Multi Point



Viable Clusters

EAFRD



- Marches & Gloucestershire Deep Rural Broadband Project
- EAFRD Programme launched end of June
- £850k allocated to Herefordshire - could be more
- We aim to be the 1st area to respond
- Objective identification of clusters that remain which could be viable for an alternative solution
- Using businesses as the anchor for each cluster to demonstrate the economic potential



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

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EAFRD Approach



- Final attempt to engage supplier/s to deliver extensively
- Among the most technically hard to reach locations in the county
- Divergence from a £/premise measure of value
 - So £ per NGA premise > any other previous activity &
 - The cheapest clusters may not be selected
- Clusters ranked in order of the latent economic potential
- 100% Funding
- Suppliers to bid which communities they can serve >95% of the cluster for the £ available in order of rank
- No technical or social capacity required in the communities to sustain the solution

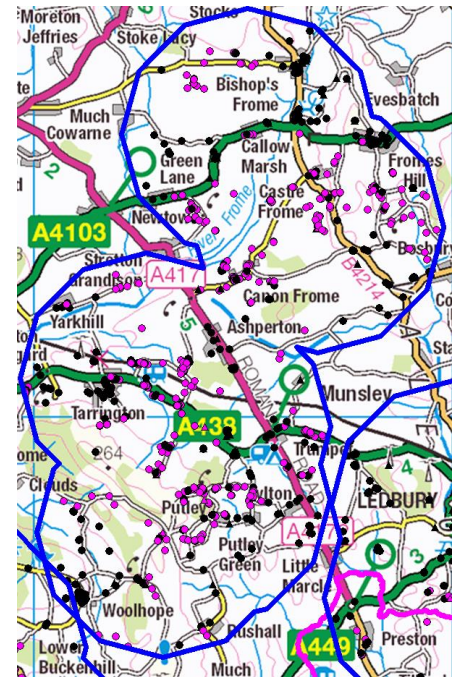
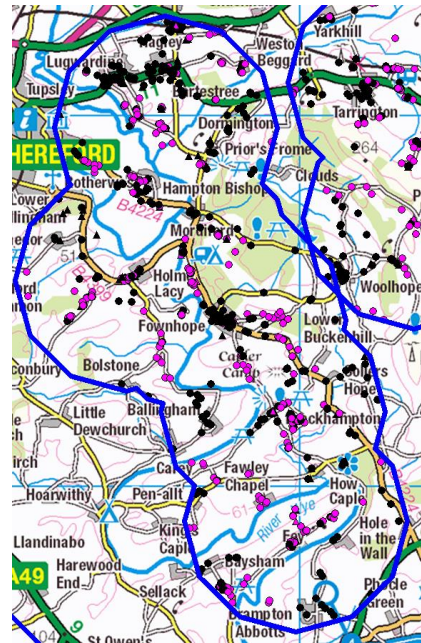
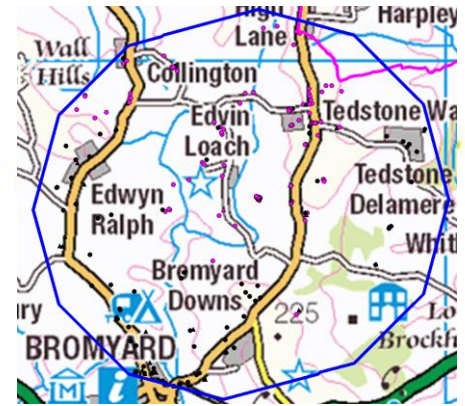


Step 1 Identify Clusters



- Physical extent the only meaningful definition
 - not address
 - or parish
 - or any other boundary
- Important that geographical clusters are well defined for the procurement
- Requires objective process that evades mission creep and cost escalation
- Identification to be complete by end of July

NB these areas are indicative, could change & others could be considered based on objective evidence



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Step 2 Prioritise Clusters

Principles for Community Prioritisation



- Funding driven by economic potential
- Important to use existing information
- Business data paramount but others will be used
- Likelihood of community support and adoption also key

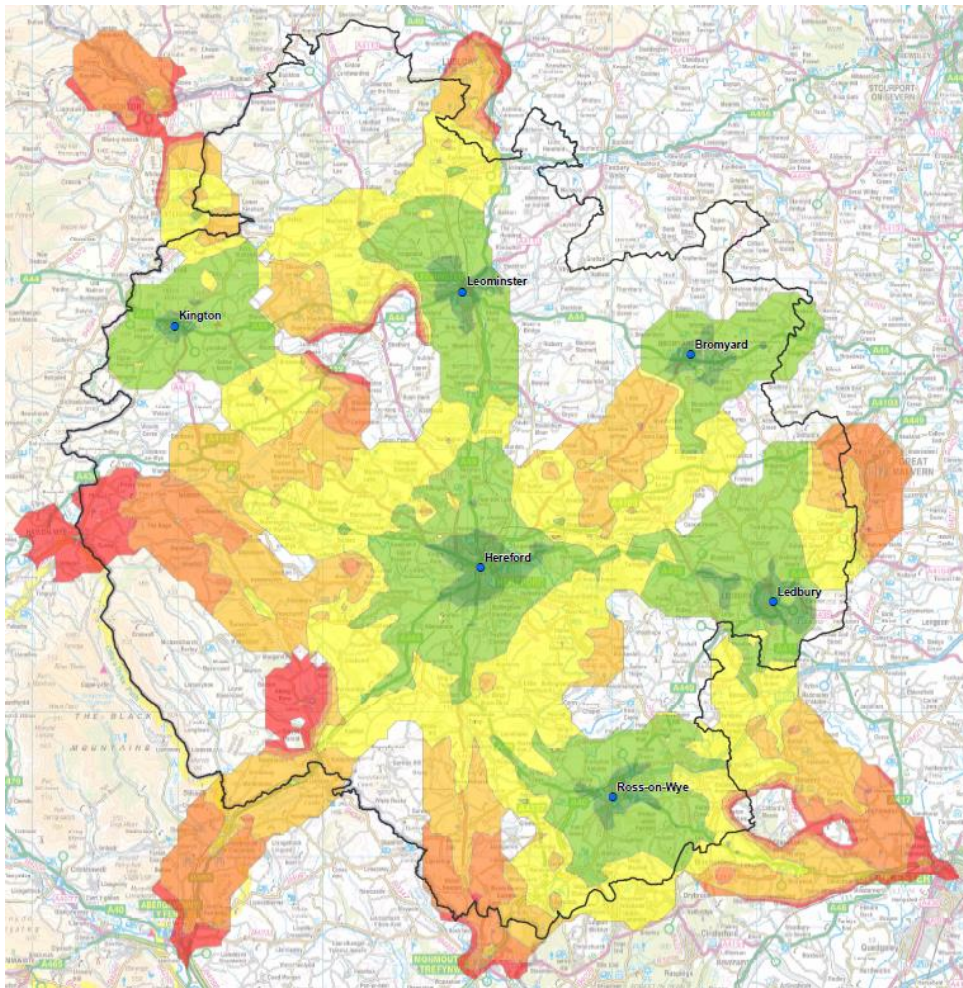
| | | Rank amongst Eligible Clusters | Weighting |
|--------------------|--|---|-----------|
| Viability | Total Premises in Cluster | (largest) X-0 (smallest) | 1 |
| | Most Common Mosaic Type within the cluster | Scores 10 if = to the most likely type and 5 if the 2 nd | 1 |
| Economic Potential | Total known Businesses in Cluster | (largest) X-0 (smallest) | 5 |
| | Total Number of Jobs identified in Business Reviews that could result from IT related opportunities | (largest) X-0 (smallest) | 10 |
| | Turnover of total known businesses in cluster | (largest) X-0 (smallest) | 5 |
| Demand | Number of registered Faster Business / Women / Farmers / Communities Trainees ÷ Total premises In the cluster | (largest) X-0 (smallest) | 3 |
| | Total Businesses & Residents responding positively within the survey | (largest) X-0 (smallest) | 3 |
| | Number of Website searches from Eligible premises | (largest) X-0 (smallest) | 2 |
| Service Potential | If premises in the cluster predominantly sit in one of the bottom quintile LSOAs for the IMD Geographical Barriers to services | Scores 10 if Y 0 if No | 1 |
| | % of premises in the cluster which are in the lowest banding of Public Transport isolation | | |



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6/19/2017



Herefordshire
Council



Gloucestershire
COUNTY COUNCIL



Department
for Culture
Media & Sport

44

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Step 3 Procure solutions



Example scenario

| Priority Community | Shropshire | Bidder Cost £k | Contracted | Herefordshire | Bidder Cost £k | Contracted | Telford & Wrekin | Bidder Cost £k | Contracted | Gloucestershire | Bidder Cost £k | Contracted |
|--------------------|--------------|----------------|------------|---------------|----------------|------------|------------------|----------------|------------|-----------------|----------------|------------|
| Community 1 | High Hill | 200 | Y | High Point | 400 | Y | Up Down | 100 | Y | North Bank | 406 | Y |
| Community 2 | Much-a-Do | 175 | Y | Low Point | 300 | Y | Down Up | 57 | N | Chipping Street | 224 | Y |
| Community 3 | Greater Hope | 500 | Y | Never End | 460 | N | Plumpton | 37 | N | Fossebury | 314 | Y |
| Community 4 | Lesser Hope | 50 | Y | Why Bother | 100 | N | Everworth | 356 | N | Underdale | 56 | Y |
| Community 5 | Long wait | 400 | N | Not Close | 346 | N | Near Far | 200 | N | Severndale | 134 | N |



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Contract Extensions



- C. £500k retained for contract extensions
- This will be used to periodically bring outlying premises into the existing contracts
- This will be discretionary and based on a cost / benefit assessment



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