Superfast Essex Parish Engagement Event

Wednesday 9th December 2015

Gigaclear Ultrafast Fibre Broadband

Department for Culture Media & Sport

SUPERFAST BRITAIN

BT

Essex County Council

Agenda

1. **Welcome**

   Essex County Councillor Kevin Bentley, Deputy Leader and Cabinet Member for Economic Growth, Waste and Recycling

2. **Superfast Essex Programme Update**
   a. BT fibre rollout – Phase 1 (BT)
   b. Rural Challenge Project update (Gigaclear)
   c. Satellite Subsidy Scheme (ECC)
   d. Community Wi-Fi Scheme (ECC)
   e. Next steps - Phase 2a BT rollout & Final 5% (ECC)

3. **Satellite – An introduction**

   Mark Wynn, Managing Director, Avonline plc

2. **Break**

3. **Q&A with the Superfast Essex Programme Team**

Superfast Essex Programme Update: BT fibre rollout - Phase 1

Giles Ellerton – Regional Partnership Director for East of England, BT

At a national level, how far have we come?

Four out of five people in the UK can access superfast broadband (more than 23million via BT's network)

This year, the internet will contribute more than **£180bn to the UK economy**

This is the largest digital economy in the G20

38m people go online daily in the UK; we spend an average of **89 hours** online each month

BT has committed to work with UK Government, local government and devolved administrations to get to **95% of the UK**

Going further needs more **and different** partnership approaches…

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The Local Broadband picture

- Over 400 fibre cabinets to be built in Essex
- 434km Fibre Spine Cable and 165km Blown Fibre Tubing to be laid (Chelmsford to Edinburgh)
- Over 78,000 Premises will receive improved broadband speed
- 87% coverage at end of Contract 1 2016
- 94% coverage by end of Contract 2 (SEP)

Achievements

- 326 cabinets stood, of which 276 cabinets live
- Fibre access to 58,700 premises in Essex
- 86% superfast coverage to date (Think Broadband)
- Aim to complete within budget and 3 months ahead of schedule.
- Aim to exceed premises passed by more than 10%
- Accelerated deployment for Contract 2
- Take up exceeded expectations; Gain share funds brought forward to model wider to coverage

Deployment Solutions

- Fibre to the Cabinet (FTTC)
- Copper Interception (Exchange Only)
- Fibre to the Premise (FTTP)
- Copper Rearrangement
- All In One Cabinet (Denham)
- Internal DSLAM (Lakeside Shopping Centre)
- Overhead Spine Cables (Remote areas)
- Wireless Backhaul (location in survey)
- Conductive Concrete

Working in partnership with local communities
20,000 premises contracted across 100 communities

Ashley, Northamptonshire

Manor Royal, West Sussex

Abbotswood, Hampshire

Fell-End, Cumbria

Preston, Hertfordshire

Little Wenlock, Shropshire

Islip, Oxfordshire

Claverton, Somerset

Rotherwick, Hampshire

Community partnership approach

Potential beneficiaries

- Residents groups, parishes, developers, landlords, Business Improvement Districts (BIDs) or other interest groups

Process

- “Community” approaches BT
- Openreach confirms the area of interest is outside existing programmes and plans
- Openreach provides a quote for delivery
- Community funds 50% of its contribution at contract signature,
- 50% upon completion

Partnership approach

- Openreach invests to maximum commercial level
- Community funds difference between commercial and actual cost
- Once delivered, Openreach takes responsibility for operating costs and future upgrades

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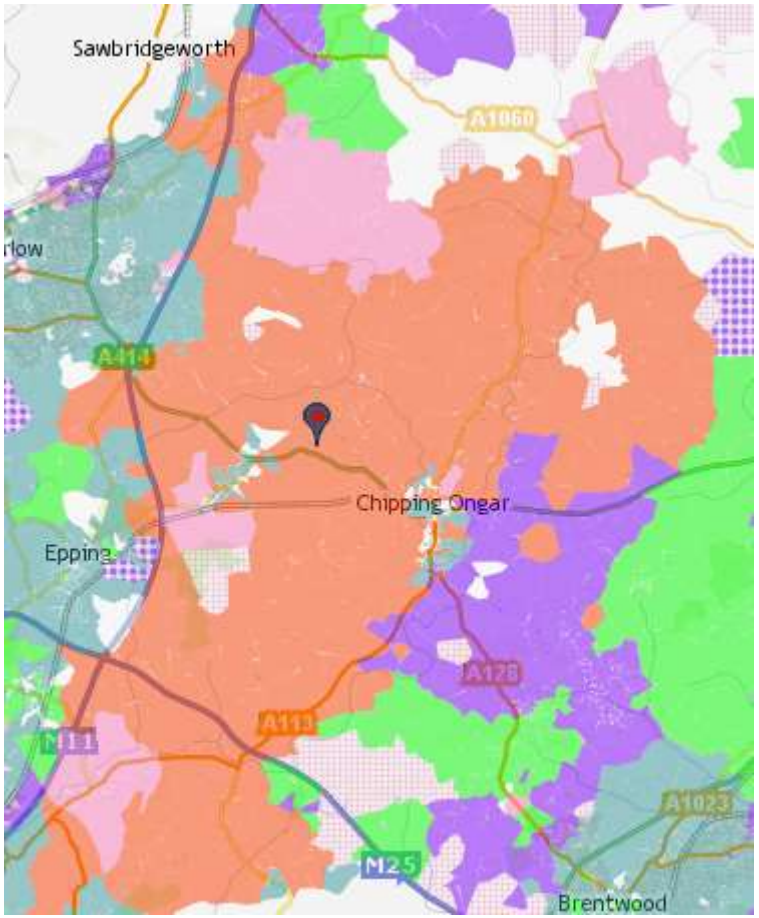
Superfast Essex Programme Update: Rural Challenge Project

Tony Heath – Project Manager, Gigaclear

Rural Challenge Project

- Exploring suppliers other than BT and technologies other than FTTC
- Contract awarded to Gigaclear plc end June 2015 - Implementing ultrafast FTTP technology (speeds up to 1000Mbps) to 4,500 homes and businesses in Epping Forest District
- Significant public investment (£2m) and large supplier investment (£5.5m)
- Work underway – first connections live in next few weeks
- 'Pilot' could be used in other parts of the county
- Residents and businesses in adjacent areas can register interest with Gigaclear for commercial build at www.gigaclear.com
- Options for expansion of the Gigaclear contract with Superfast Essex to be considered towards the end of 2016



www.superfastessex.org/ruralchallenge

Superfast Essex Programme Update: Satellite Subsidy Scheme

Karla Schon – Superfast Essex Business Communications Officer, Essex County Council

Satellite Subsidy Scheme

Overview:

- An interim solution to help those currently unable to receive a broadband download speed of 2Mbps or above

Eligibility:

- Homes and businesses currently getting less than 2Mbps download speed
- Those not currently not due to receive a fibre upgrade within six months from the date of their application

What it provides:

- Support towards cost of satellite equipment/installation so that a basic broadband service can be purchased for a first year cost of no more than £400

When and where:

- Subsidy Scheme available from December 2015 until the end of 2017
- Dedicated web page: www.superfastessex.org/satellite

Satellite Subsidy Scheme

Application Process: www.superfastessex.org/satellite

1. Check that you are eligible to apply (see above)
2. **Apply for a Subsidy Code online**
3. We will check your eligibility (please allow up to 1 month)
4. We will send you a unique Subsidy Code
5. Contact one of the participating satellite broadband service providers to arrange installation

Avonline Broadband
CorSat
Digiweb
PRIME TECH

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Superfast Essex Programme Update: Community Wi-Fi Scheme

Lucy Dickinson – Superfast Essex Senior Communications Officer, Essex County Council

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Community Wi-Fi Scheme

Objective:

1. Help communities to take advantage of fast broadband connectivity
2. Drive take-up of the new infrastructure created by Superfast Essex

Vision:

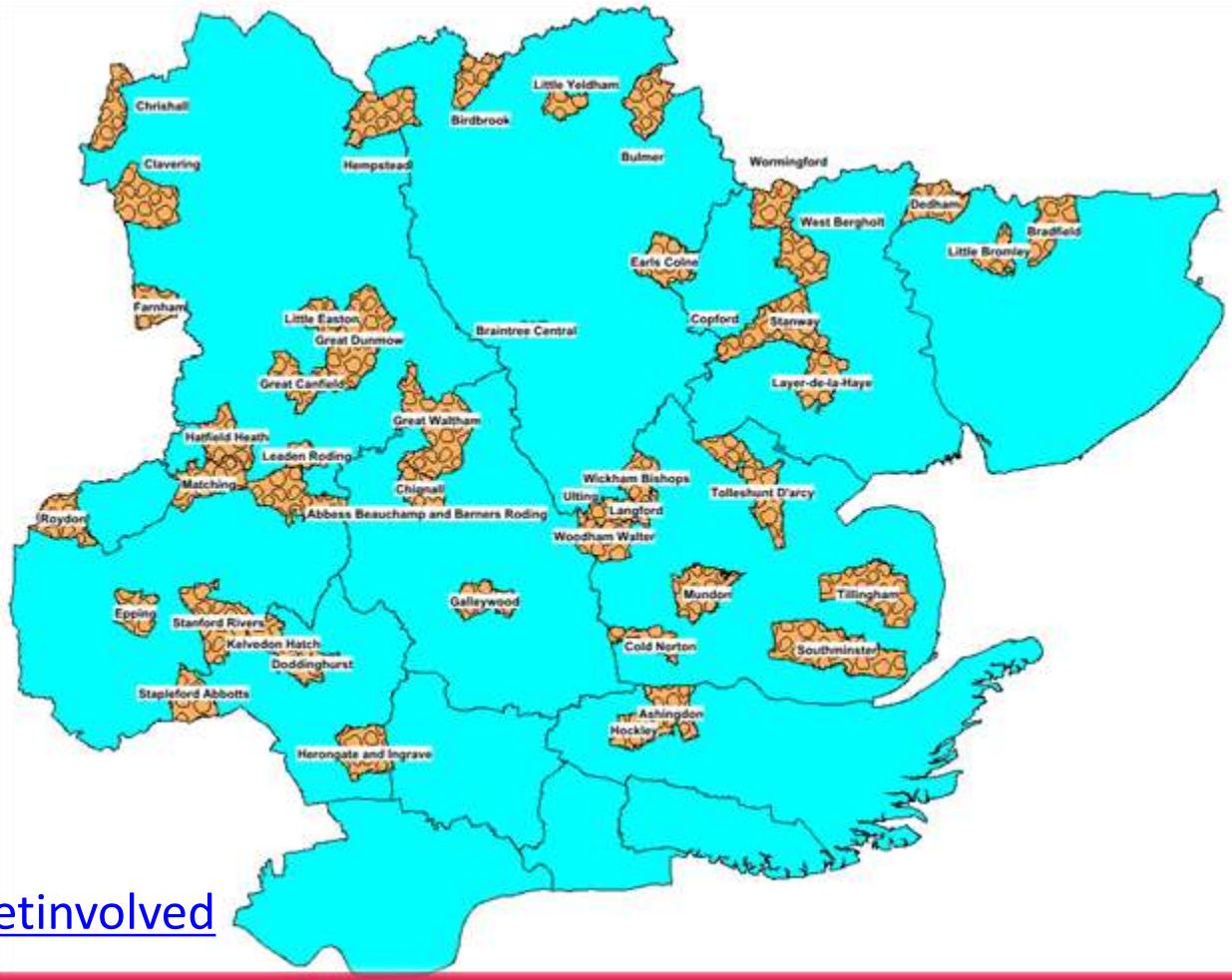
- Enable local communities to provide free public internet access at a key location
- Easy sign-up process , no technical skill needed, supplier can manage connection, maintenance and account administration
- Superfast Essex to be enabler – local community to fund
- At least 50 communities to take part

Next steps:

- Finalising the requirement, planning procurement of a supplier in Jan/Feb 2016
- Service to be offered as a framework underwritten by Superfast Essex/ECC
- Scheme to be announced in March 2016
- Exploring options to help with funding to help cover set up cost, e.g. CIF

Broadband Champions

- 54 Broadband Champions recruited so far
- 280+ Parishes, Towns, & Villages to update
- 120,000 homes and businesses to be enabled
- 3 projects over 4 years
- A big job for 1 small team...which is why we need your help
- Visit www.superfastessex.org/getinvolved



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Superfast Essex Programme Update: Next steps

Connie Kerbst – Superfast Essex Senior Programme Manager, Essex County Council

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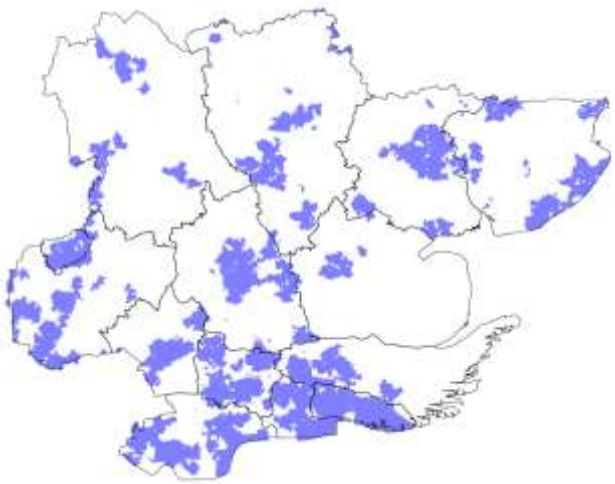
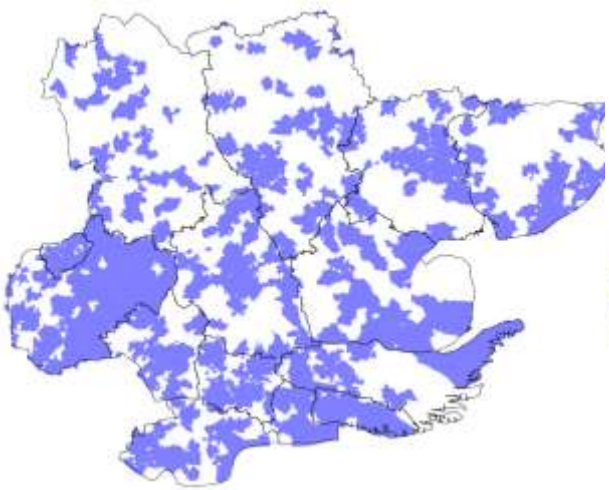
What next – Getting to 95%

Further BT rollout - Phase2a:

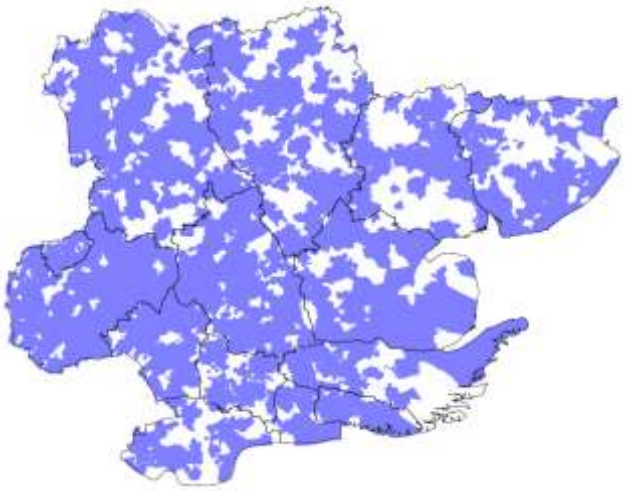
1. Contract let to BT in March
2. Deployment plan accelerated to complete 9 months earlier than originally proposed
3. Seeking to bring deployment start forward further, continue on from Phase 1
4. Areas planned and high-level timescales set , now working on delivery plan



2013 –
Commercial deployment only



2016 –
After current work is completed
(Superfast Essex Phase 1 and 2b)



2019 –
After further planned work
(Superfast Essex Phase 2a)

What next - Connecting the 'Last 5%'

- **Establish a clear view** of the areas still to cover, any priorities and constraints
- **Review options** (technology and supplier) for getting superfast coverage to these areas – these currently include:
  - Extension of BT rollout
  - Extension of Gigaclear programme
  - New procurement
  - Community projects

- **Identify funding** for further rollout. Potential sources include:

  - 'Success dividend' resulting from high take-up of current deployment
  - Project efficiency savings from Phase 1
  - BDUK grant
  - Contribution from district or unitary councils
  - Community funds???

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Satellite – An introduction

Mark Wynn, Managing Director, Avonline Plc

Next Generation Satellite Broadband

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Avonline

Avonline plc

Est. 1989

Bristol

£500m Network Projects

2m homes fibred & 4m installs

ISO 9001

14001

18001

Satellite Broadband since 2002

No.1 in UK

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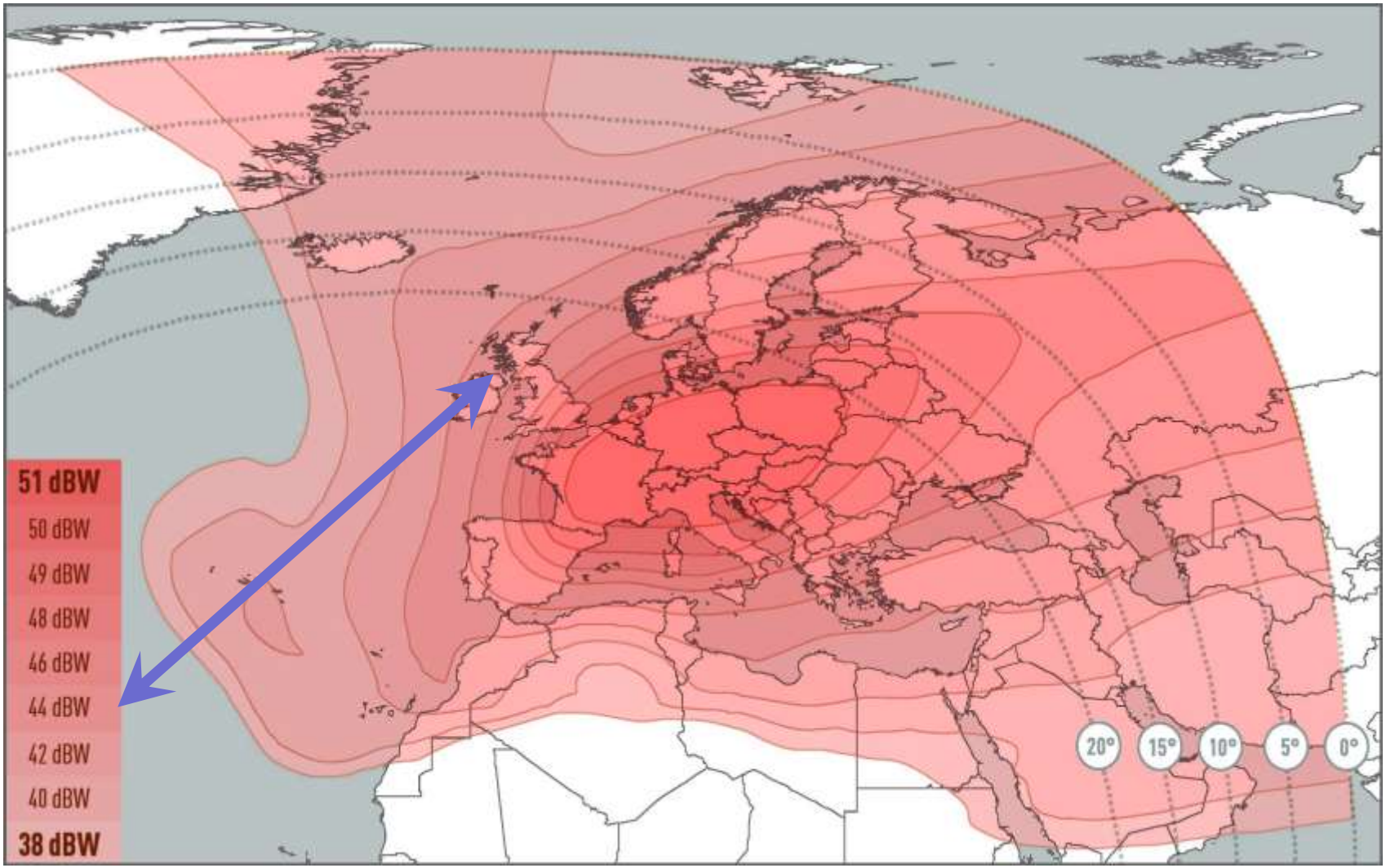
How satellite broadband works – old



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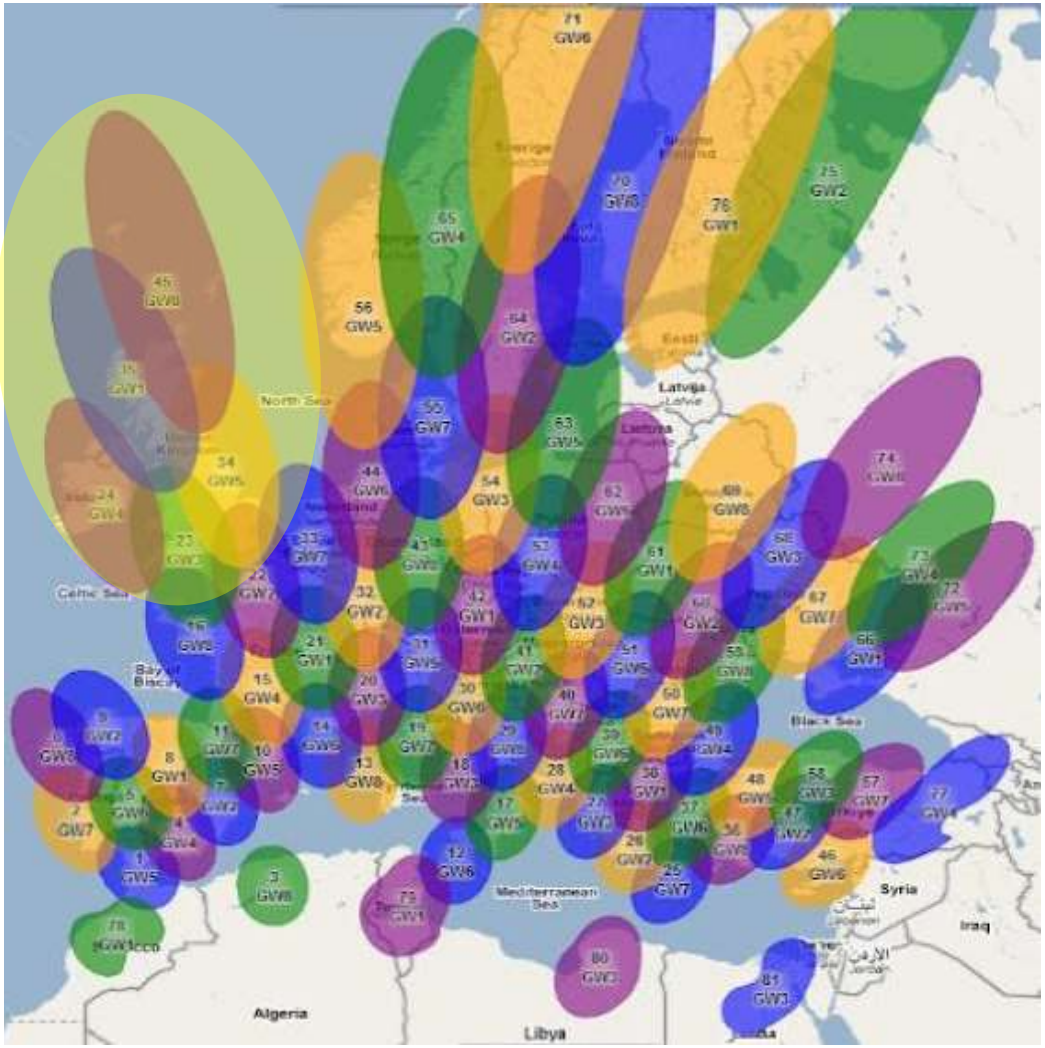
How satellite broadband works – new

- **Ka spectrum**
- **Spot-beam**
- **High capacity**
- **High power**
- **High speed**
- **Higher data**
- **Resilient**
- **Simple install**



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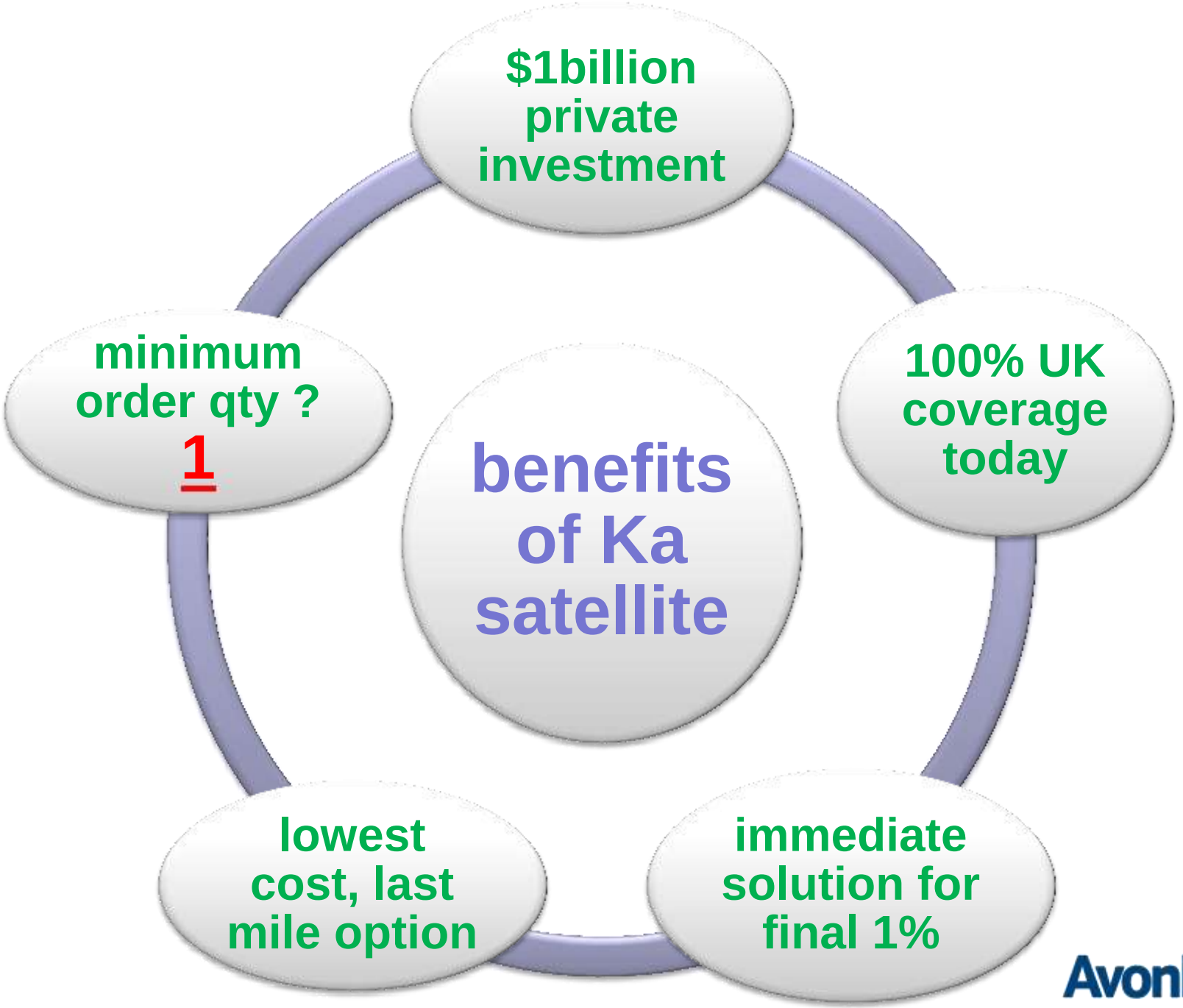
https://www.youtube.com/watch?v=FTxp_KXyiIg

Avonline


$1billion private investment
100% UK coverage today
immediate solution for final 1%
lowest cost, last mile option
minimum order qty ?
1
benefits of Ka satellite

Satellite Broadband – Consumer Voucher deal

- Speed ? ***to 22Mbps down & 6Mbps up***
- Upfront Costs ? ***£40 installed (mainland UK)***
- Monthly Costs ? ***from £29.95 per month***
- Monthly Data ? ***10GB entry level package***
- Contract length ? ***12 month minimum rental contract***
- Oualification ? ***Council certified <2Mbps/no***

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Alternatives to the Voucher scheme

"What if I'm potentially programmed but not for another 12-18 months"

"What if I'm receiving 2.5Mbps (& slowing)?"

- Avonline has current monthly rental packages offering identical services which mirror the pricing of the Voucher scheme.
- No qualifying criteria
- Open to all and usually installed in about a week

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Avonline

Got a question?

Q&A to be chaired by David Wilde, CIO and Executive Director for Place Operations (ECC). Panel to include:

- **Connie Kerbst** – Superfast Essex Programme Manager (ECC)
- **Giles Ellerton –** Regional Partnership Director for the East of England (BT)
- **Tony Smith –** Superfast Essex Senior Project Manager (Openreach)
- **Tony Heath –** Project Manager (Gigaclear Plc)
- **Mark Wynn –** Managing Director (Avonline Plc)