

Arqiva is UK #1 telecoms infrastructure provider

Mobile

Macro Sites Street Infrastructure Indoor Coverage (DAS)

M2M

Energy Smart Metering Water Smart Metering

Internet of Things



23%
UK macro-site market
c.8,000+
Active cellular sites

One of the 2 UK Smart Metering leaders

Gas, electricity and water



exclusive licenses to use municipal street furniture in 14 London Boroughs; and other UK cities including Manchester and Southampton

300,000+ Small Cell street level assets



FWA is especially relevant in the UK due to the low FTTP access

The UK is lagging behind other fibre nations

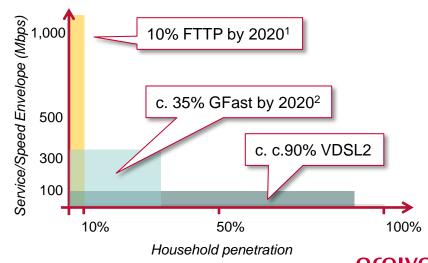
3% FTTP penetration in UK

Current focus on copper based technologies

FTTC will not deliver Gbps speeds

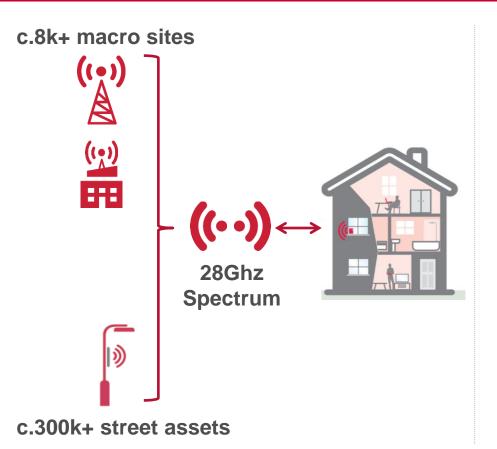
5G FWA can provide gigabit broadband service to the home and office

UK Wholesale Broadband Provision



Sources: 1. Ofcom Connected Nations 2016, 2.BT / Ispreview, 3. Ispreview

Arqiva's assets provide a unique opportunity for wholesale FWA



Arqiva is the #1 owner of 28GHz in the UK

- 40% Nationwide spectrum (2 x 224 MHz)
- 60% Greater London region spectrum (Additional 2 x 112 MHz)
- Both licences are in perpetuity



Arqiva & Samsung's London 5G FWA 28GHz trial - #1 in the UK

- 1 Gbps per CPE
- **Low latency**
- **Beam Forming Technology**
- **Multiple High Bandwidth Uses** Case
- High stability over a 240m distance, despite UK summer weather!



A UK game changing FWA strategy requires key success factors

- Access to street infrastructure and 28Ghz
- Availability of dark fibre for backhaul at competitive T&Cs
- Cost competitive vs FTTP (including backhaul)

Feasibility of technology/deployment Desirability for consumers Viability of service

- Combined FTTP / FWA business case viable
- Critical mass to justify the investment for a consumer brand to integrate a new technology

Versus FTTP/FTTH:

- Same retail price point
- Seamless sale process
- Same quality of service
- Easier to install

Scale FWA rollout would complement a scale FTTP deployment, yet making a fair share of it



Next steps for FWA in the UK

Address the UK dark fibre conundrum

in CY18 to test the performance in real conditions

Build the business case combining FTTP and FWA

Continue to work with DCMS and Ofcom to strengthen the regulation framework



