



Superfast Broadband

Coming Soon ?

Definitions

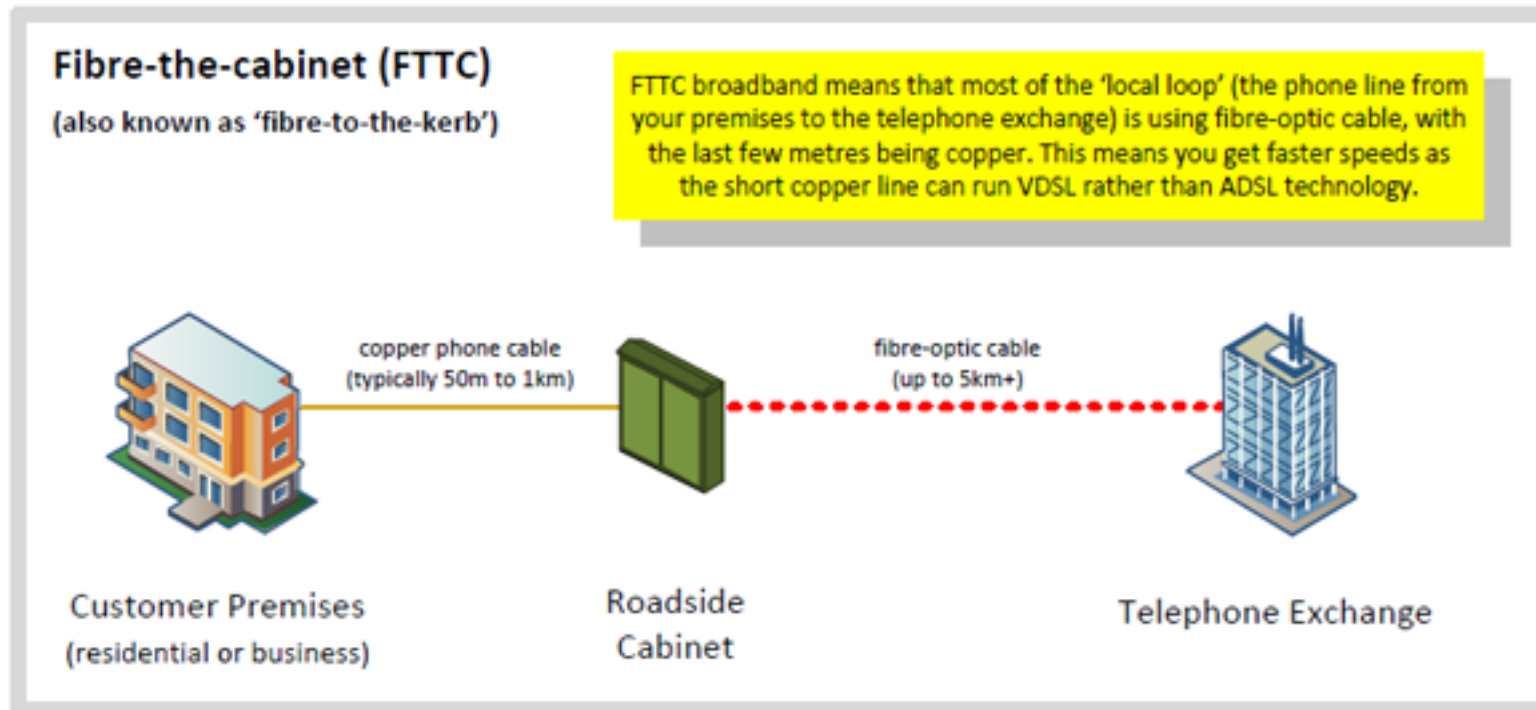
- Superfast ? “.....download speeds in excess of 24 Mbps....”
 - Today in Micheldever Parish, capabilities range from:
 - 1.5 Mbps (e.g. East Stratton) to 8 Mbps (e.g. Northbrook)
 - Recognising individual property +/- anomalies
- Government targets:
 - 90% of premises by the end of 2015
 - 95% of premises by the end of 2019
 - However – these are National, not Local targets. Does not mean 95% of Micheldever Parish

In Hampshire – the timescale

- 90% target represented by “Wave 1” – HCC funded
 - Due to complete end - 2015
- 95% target represented by “Wave 2” – HCC funded
 - 2016 – 2019
- Waves are divided into Phases
 - Wave 2 phases will be known by September 2015
- Some Parish areas will be not be included in Wave 2
- Information is based on Postcode, which can be unreliable and may not reflect the situation with individual properties

Technology – FTTC versus FTTH/P

- BT plans primarily based on FTTC (Fibre to the Cabinet)
- Capable of max. download speed of 80 Mbps



Actual speeds depend on distance between house and cabinet:

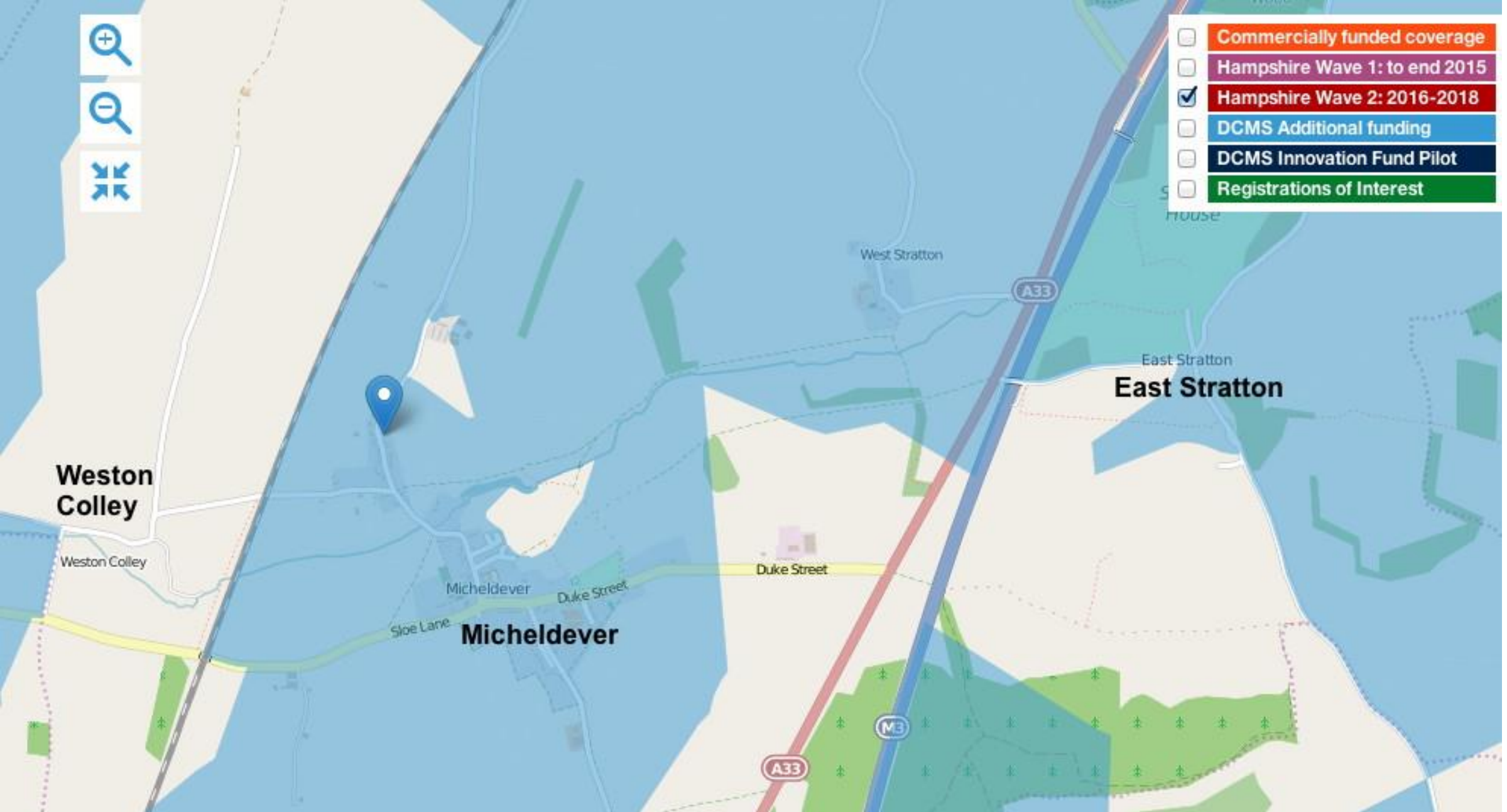
- 100m = 80 Mbps
- to
- 1500m = 15 Mbps

In Micheldever Parish – the timescale

- **Wave 1 – due to complete end-2015**
- Hampshire website suggests two postcodes are included in Phase 4
 - SO21 3AJ (Northbrook)
 - SO21 3DG (Winchester Road)
 - Considered a data anomaly, suggest: ignore
- **Wave 2 – 2016 – 2019**
 - Phases will be known by September 2015
- **Outside of Wave 2 (based on Postcode data)**
 - Borough Arch, Weston Colley/Down, Dairy Place, A33 properties, Woodmancott, Cowdown, Baring Close
 - Residents will be offered Satellite systems at no installation fee

Suggested Wave 1 areas





Wave 2 areas and exclusions

So what ?

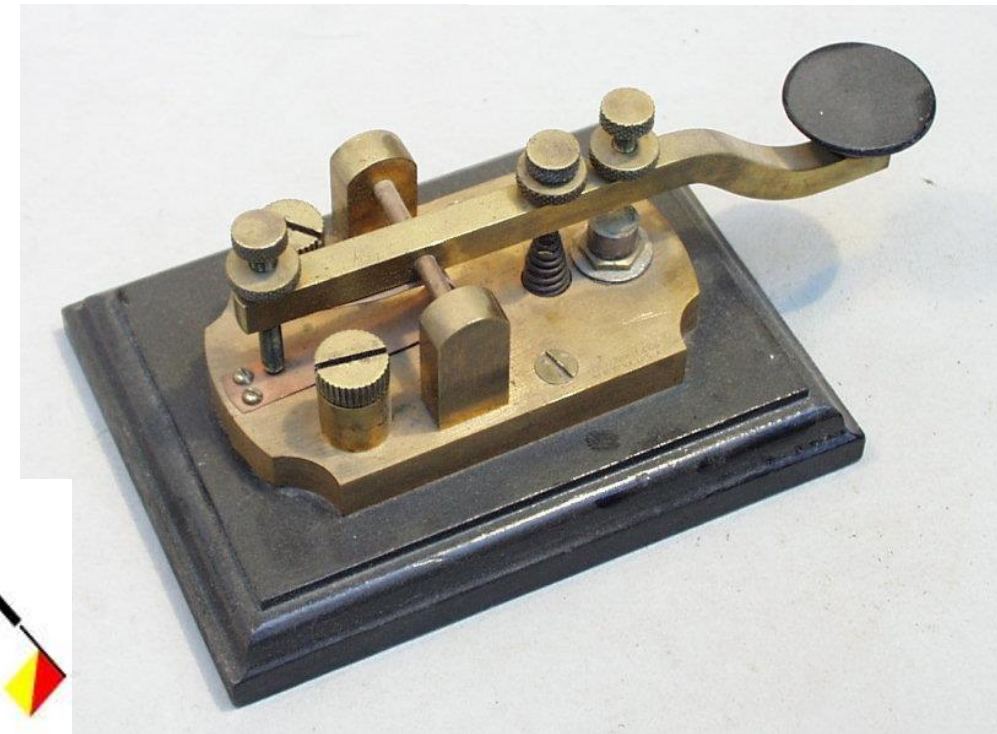
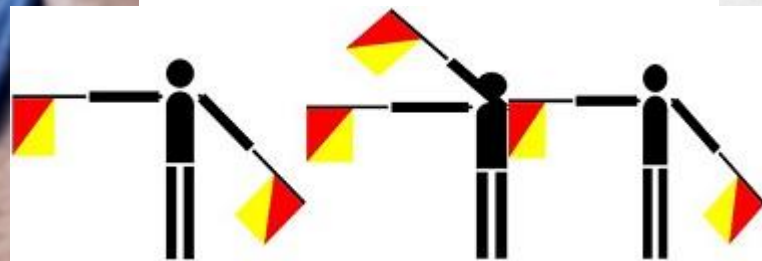
- I don't care – I never or rarely use the internet
- I can wait – if superfast arrives before 2019, fine with me
- I'm fed up with living in the 3rd World, I need to run a business, rent a property, work from home..... I want something sooner
- I'm not getting superfast by 2020 apparently, what can I do?

Alternatives:

- Self-funding
- GSM (mobile phone network)
- Satellite

Considerations vary for:

- Individual properties
- Clusters (eg Business Parks)
- Communities



Self-Funding

- Direct contract with BT
- Case Study:
 - Rotherwick, Hook – installation of fibre to village
 - Cost = £27,000
 - Funded by local residents, who formed a private company
- Only possible in areas with upgraded exchanges
- Introductions to BT can be facilitated by HCC



GSM (Mobile Phone Network)

- Connect via radio to mobile phone mast
- Can be
 - Individual device (eg laptop dongle)
 - Whole house (antenna on roof)
- Future-proof (3G -> 4G -> 5G etc)
- For house antenna - mast must be within range - 6 km max
 - But does not need to be line-of-sight
- Installation cost plus monthly tariff
 - Data volume thresholds: ££ for Gigabytes per month



Satellite

- Connect via geostationary satellite
- Can be
 - two-way (upload & download)
 - one-way (download only. Upload via normal phone line)
- Requires dish
- Technical limitations
 - Data latency (round-trip elapsed time). e.g. Streaming may not work
 - Web server to PC and return = 150,000km minimum
 - (compare: speed of light = 300,000km/second)
- Installation cost plus monthly tariff
 - Data volume thresholds: ££ for Gigabytes per month



Questions?

