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policy and finance**

Colchester: Innovative Approaches, Value for Money

FTTH Conference 2018, Valencia

Agenda



- The beginning of Ultrafast In Colchester
- Holistic approach to Ultrafast
- Town centre fibre network
- Our plans for the future
- Colchester as a 'Smart City' and 5G test bed
- Question and answers



Beginning of Ultra-fast in Colchester: 2015-17



- 2015: Colchester benchmarked 57/65 among UK towns and cities; FTTP unavailable
- Anecdotal evidence about impact on business; complex expectations surrounding price pitch
- 2017: FTTP(B) solutions available to 850 SME addresses, and 1,100 residential addresses across town centre
- Open-access network principle embedded in first UK model of its type

Colchester's holistic approach to Ultra-fast Broadband



- Dramatic increase in demand for improved connectivity; creative and digital sector a key driver of the local economy accounting for 10% of jobs and growing
- Aspiration to be a leader in East of England
- Putting Colchester on the national map
- Alignment of key Council economic and development projects



Cost Effective Build Approach



- Existing CCTV infrastructure connects almost 200 locations across town centre
- Street chambers, cabinets, wall-mounted cabinets modernised and repurposed
- 400 initial cores providing mixed private circuit/GPON connectivity to cater for bandwidth and price requirements
- Spurs to key public sector sites to facilitate future planned expansion

Our Town Centre Fibre Network



- New server room in Town Hall capable of hosting multiple service providers
- Open-access network accessible across the whole town centre
- 400 initial cores providing mixed private circuit/GPON connectivity to cater for bandwidth and price requirements
- Spurs to key public sector sites to facilitate future planned expansion
- Demonstrated gigabit speeds, low latency and reliability, for the first time in Colchester Town Centre



Our plans for the future



- An ambition to increase the footprint of connectable addresses to 2,000 premises (including residential)
- An “all-fibre” town: Key infrastructure element to all new developments and major redevelopments. Secured in Planning Guidelines, all major new-builds and refurbishments should have full-fibre as standard
- The Commercial Council: CBC aims to extend its fibre network to the key economic development zones in North Colchester and East Colchester (the university of Essex and our Northern Gateway project) as a way of generating revenue



Colchester as a “Smart City” and 5G test bed



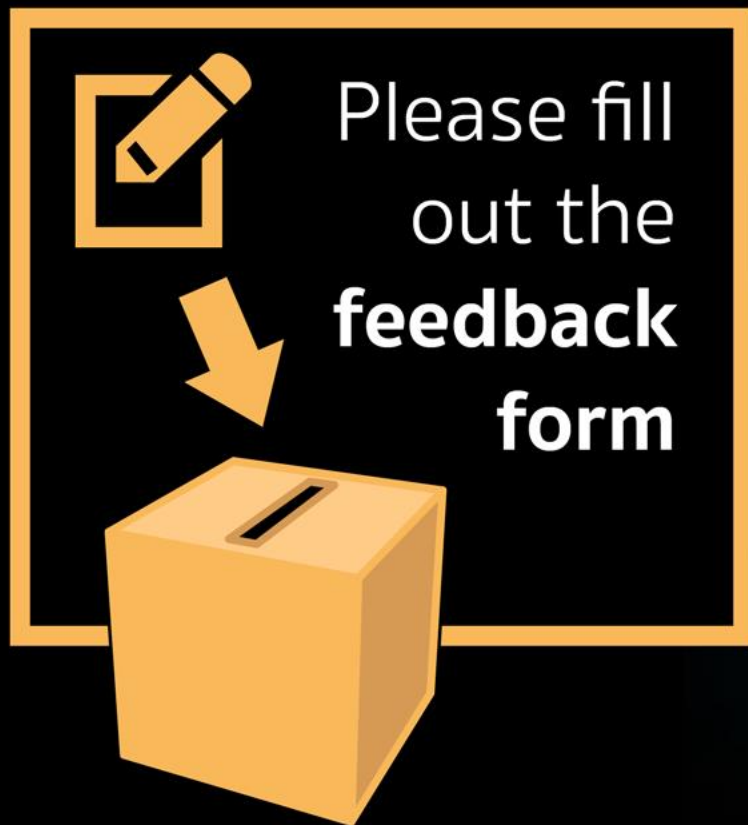
- Colchester’s compact town centre geography lends itself naturally to 5G testing
- Our open-access network can be partitioned physically or virtually without further invasive work
- Engagement of cutting-edge research on 5G conducted by University of Essex
- Potential real-life applications are available from the start: CCTV operation, air quality monitoring, traffic management etc., leading to “Smart City” development
- Key commercial priorities – raising awareness of capacity of new technology; cost effectiveness; partnerships to deliver faster rollout; government voucher scheme to assist with final drop civils costs

Q&A



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