

Cambridge White Spaces Trial

Use case demonstrations

29th July 2011

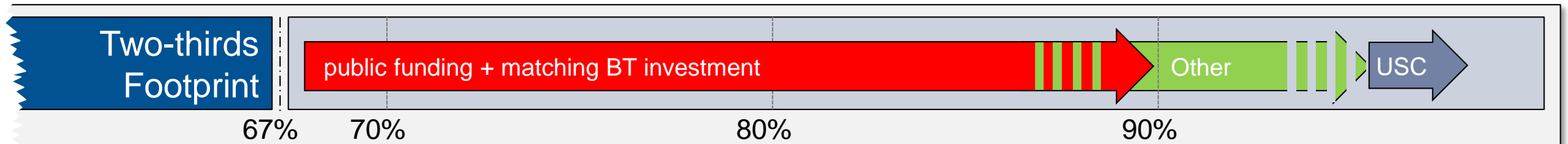
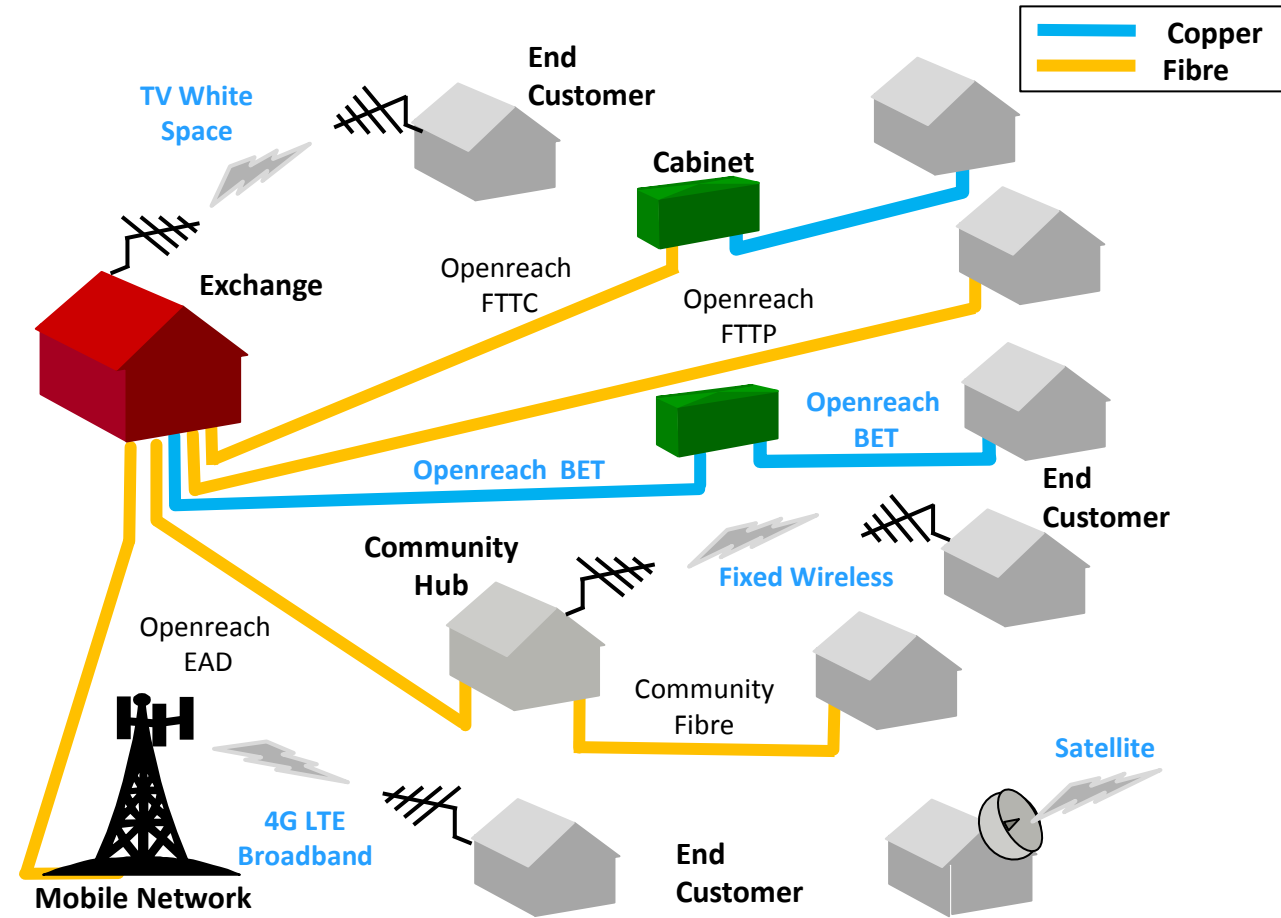
Remote rural broadband use case

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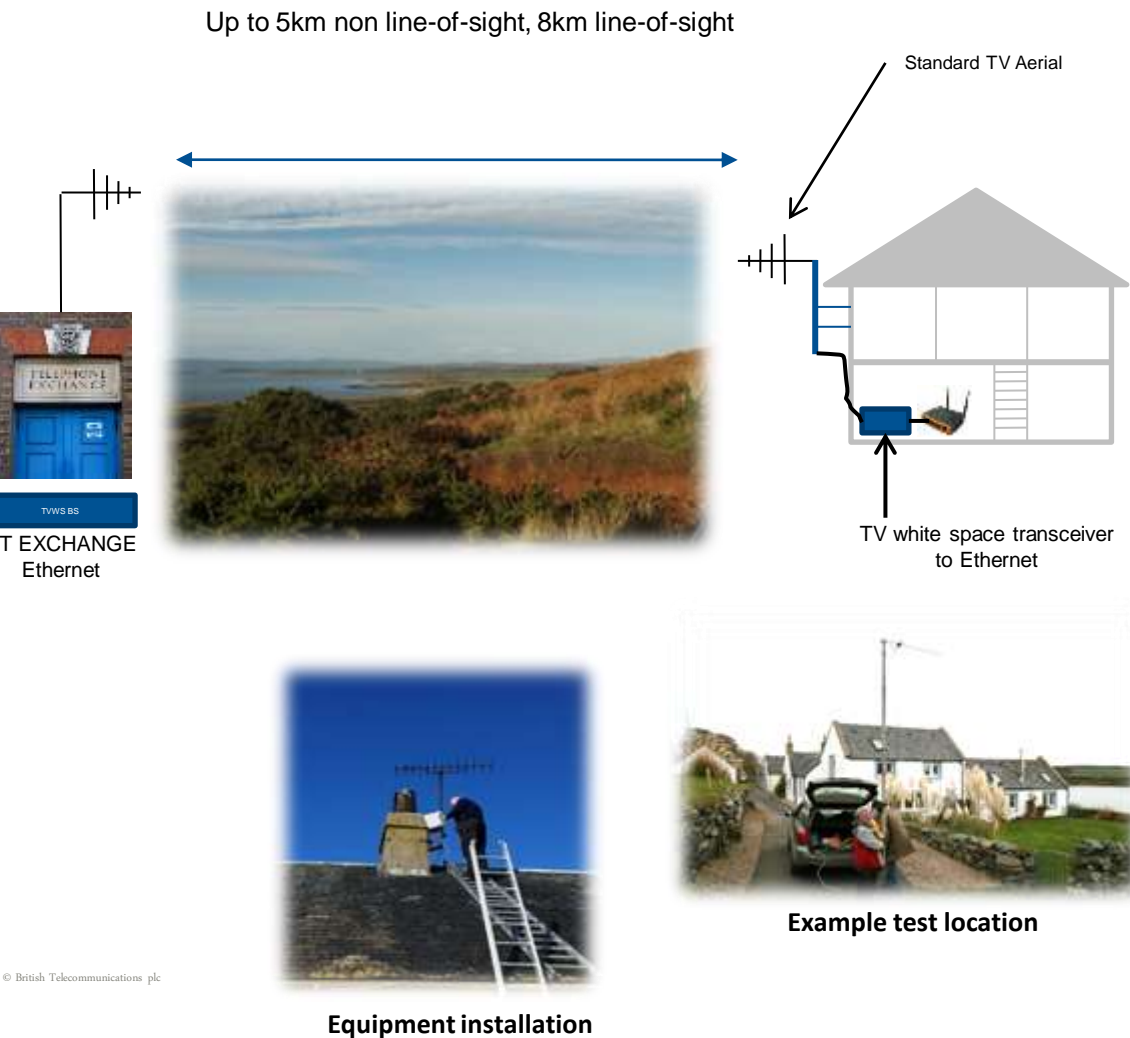
BT is pursuing many solutions to deal with slow speed spots – the ‘final third’

- Our commercial deployments of fibre based **superfast broadband** now covers c. 7m UK premises and we aim to cover 2/3 of UK premises by end 2014.
- Even with subsidy to extend this to c. 90% of premises and also extensive ADSL2+ coverage, we estimate that about 2% of homes would still have sub 2Mbit/s speeds due to long lines and home wiring issues. Multiple solutions will be needed for these remaining “slow-spots”.
- BET (Broadband Extension Technology),
- Wireless, for example we are considering solutions such as:
 - 4G LTE (BT/Everything Everywhere trial)
 - TV whitespace (BT trials, e.g. Bute, Scotland)
 - Satellite

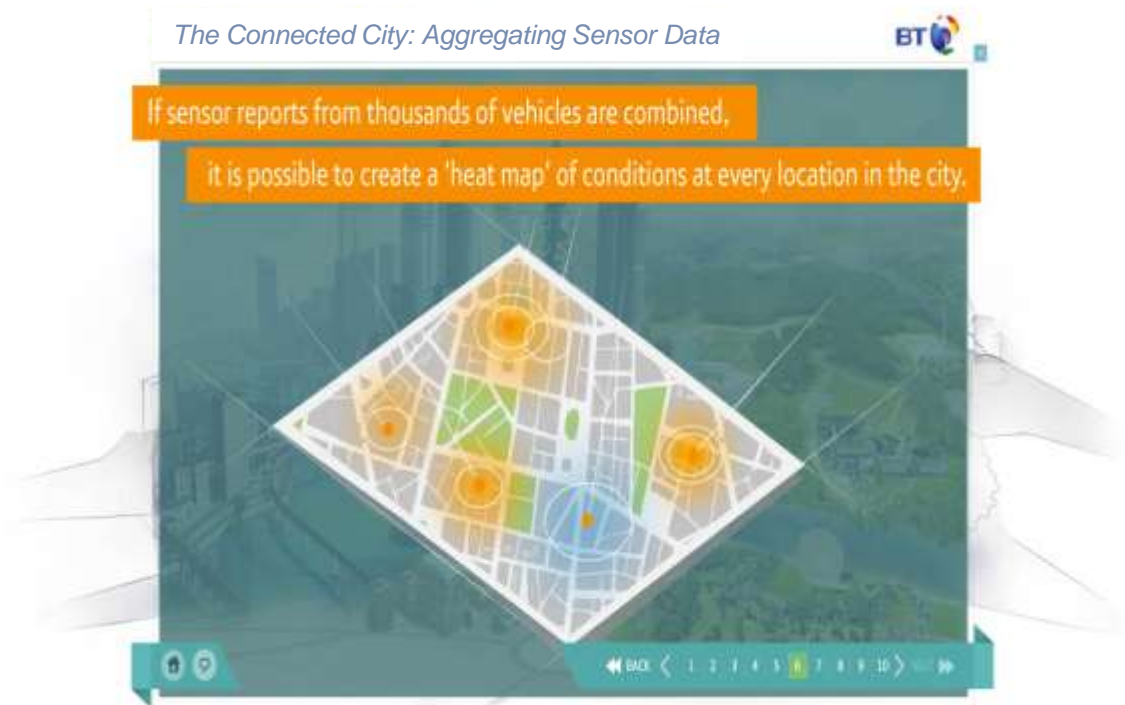


Example use cases

Isle of Bute, Scotland technology trial (with partners)



Machine to Machine demonstrations



What needs to happen next ?

- Industry is working with Ofcom to progress the technical details leading to the licence-exempt access to the TVWS spectrum in 2012:
 - Harmonised European standards for TVWS systems are encouraged (ETSI activity); the IETF PAWS specifications are also relevant.
 - In the interim, Voluntary National Standards are contemplated for TVWS in the UK, covering the device technical characteristics and the required interaction with the database system.
 - The database system functionality is to be specified by Ofcom in line with UK national requirements.
 - It is essential that this supports exchange of necessary information and can manage the assignment of frequencies in an efficient and equitable manner.
- This activity needs to be accelerated: a clear and ambitious timetable is needed from Ofcom for this work, if the TV White Spaces is to be exploited to maximum benefit.
- The industry trials of TVWS underway here in Cambridge and elsewhere are building confidence in the ability to operate TVWS systems, with no interference to other services.