

# Broadband in Steventon

September 2015

# Scope of Research

- Broadband technologies
- What's broadband like in Steventon today?
- Hampshire's Superfast Broadband rollout
- Our Options
- Hints and Tips

# Broadband Delivery

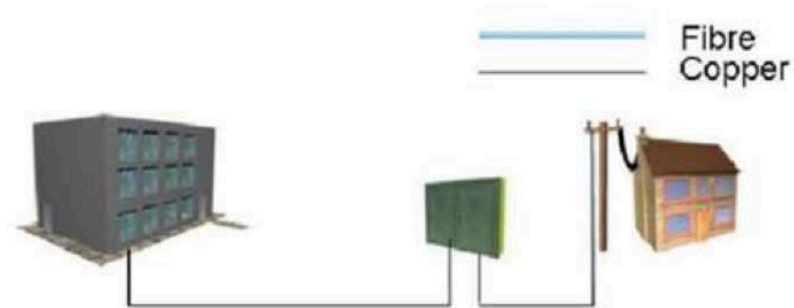
- Broadband over fixed line
- Broadband via Satellite
- Broadband via Cellular/Mobile Data Services
- Broadband via (Local) Wireless Network

# BT Broadband Technologies

## Technology overview

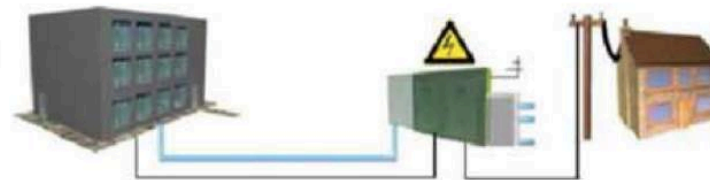
### ADSL Broadband

Copper from the exchange to the premises.



### Fibre To The Cabinet (FTTC)

The fibre connection goes to a powered cabinet in the street.  
The final connection to premises is on copper.



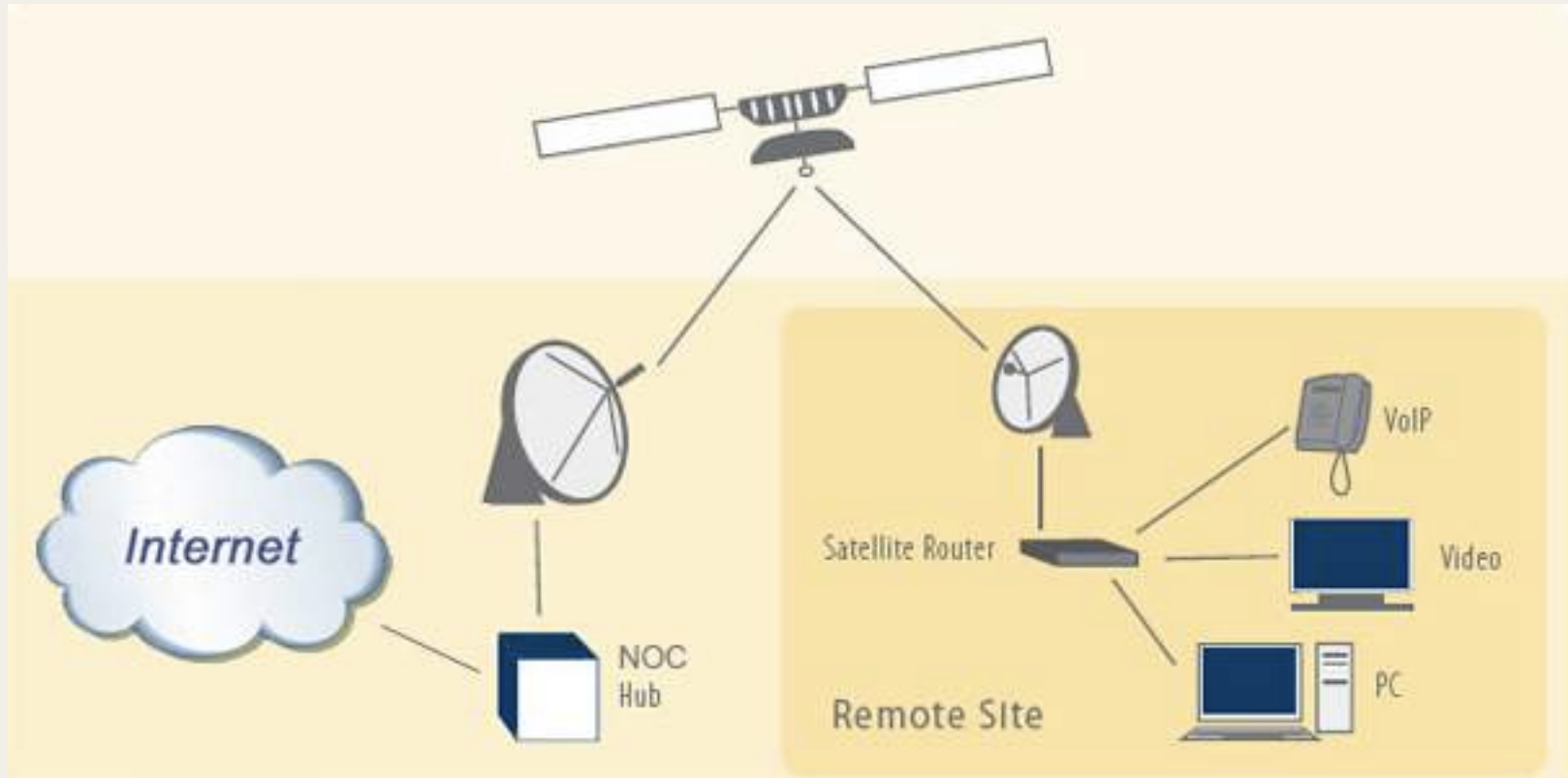
### Fibre To The Premise (FTTP)

The fibre connection goes all the way from the main network to the premises.



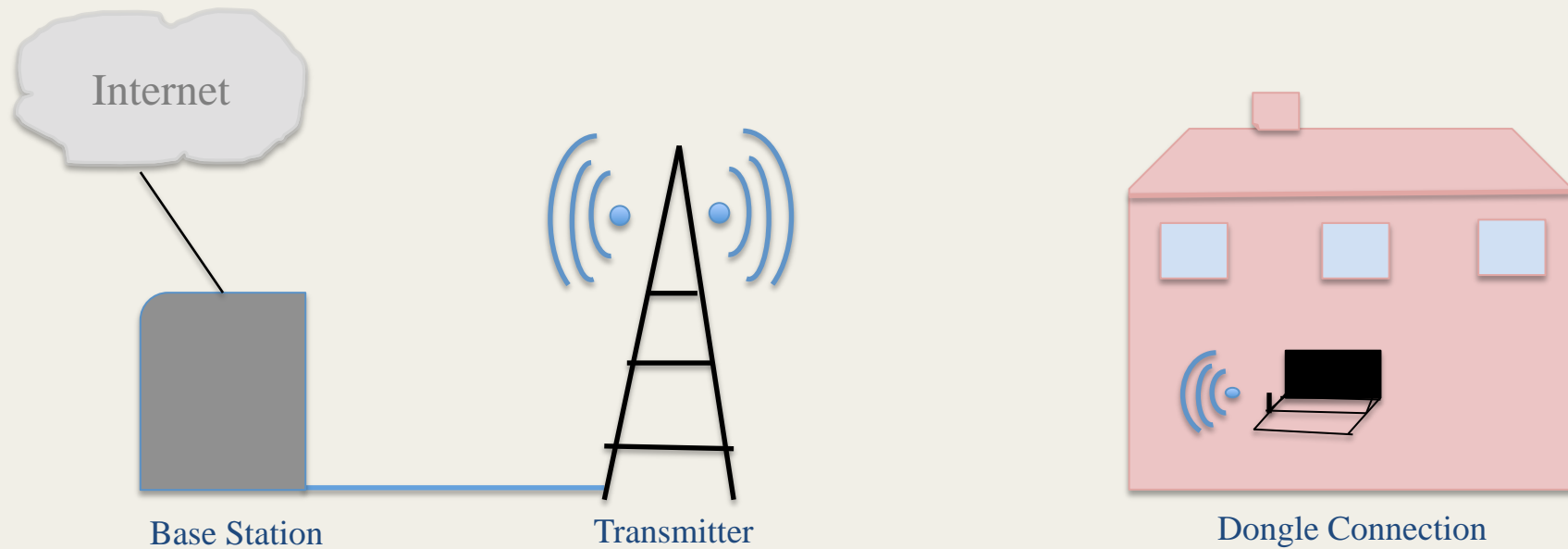
Source: BT Fibre broadband: Delivering for Hampshire 2014-04-01

# Satellite Broadband

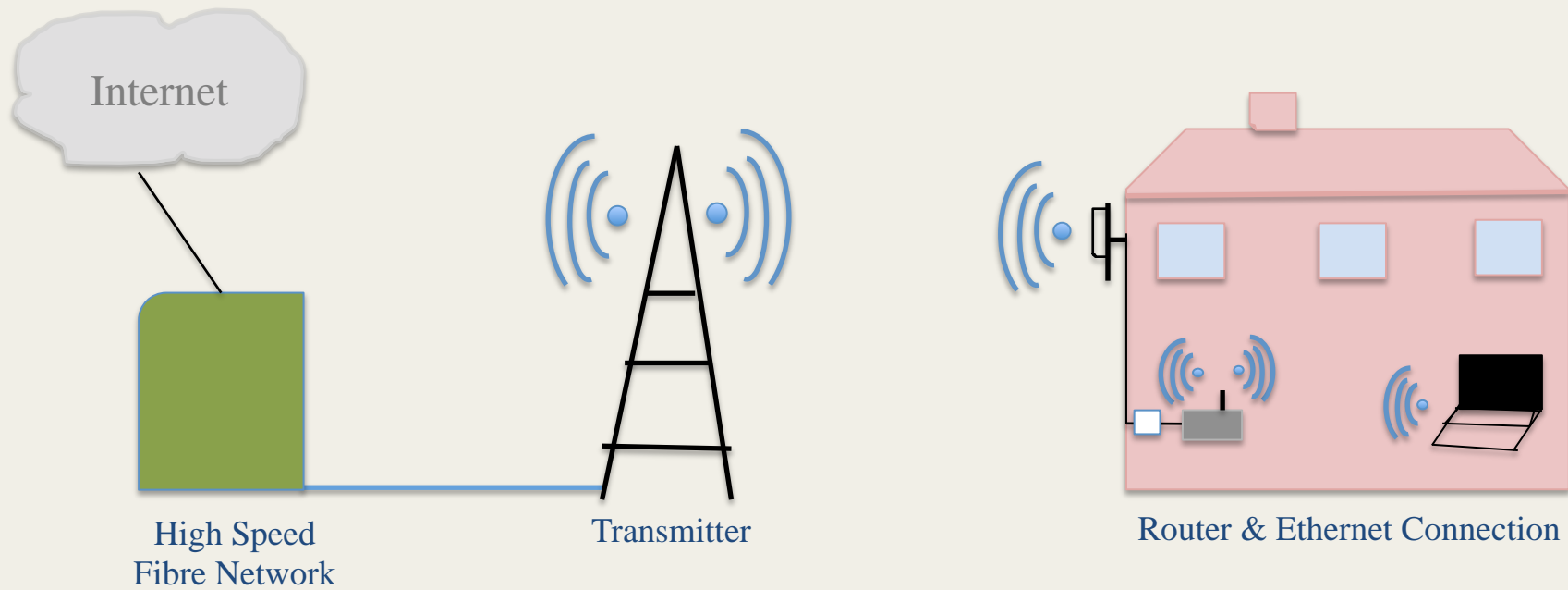


Source: GROUNDCONTROL Global Satellite Solutions

# Mobile/Cellular Wireless Internet



# (Local) Wireless Internet



# Broadband in Steventon Today

- Broadband via: Fixed line over BT, Satellite and Mobile Operator
  - BT + Plusnet, TalkTalk + Tiscali & AOL UK, Eclipse, Zen, Sky over BT, Vodafone over BT
  - Eurostat's Tooway Satellite & Others(?)
  - Mobile Internet by 3, EE
- Speeds in Mb/s:
  - Steventon Warren end: Resorted to satellite  
Download: 5 → 20
  - Oakley side of tunnel: Download: 2.5 → 5.6  
Upload: 0.37 → 0.65
  - The rest of Steventon: Download: 0.93 → 3.7  
Upload: 0.14 → 0.95  
Average Download: 2.1
- No pattern across providers
- Feelings: Frustration → Acceptance → Satisfaction



# Superfast Broadband Rollout in Hampshire

- Spring 2014: BT reached 80% premises
- End 2015: Wave 1: Hampshire County Council (HCC)  
+ Department for Culture, Media and Sport (DCMS) + BT -  
Reaching 90% premises
- September 2018: Wave 2: HCC + DCMS + BT - Reaching 96% premises
- North Waltham is fibre enabled
- Steventon is in the remaining 4%:

*“Unfortunately your premises falls into the final 4%, an area that is expensive and difficult to reach. The council is currently working with central government on business models and technology solutions to find a way to make outreach to this percentage possible.”*

# Options

- “If BT line incapable of 2Mb/s speed by end 2015, then government intend to offer satellite services providing at least 2Mb/s”
- £3k Government Grant for SMEs
- Go it alone - Search web for suppliers
  - Broadband via: Mobile, Satellite
  - or Wireless - HiWiFi based in Basingstoke
    - Supplied: Hatch Warren, Beggarwood, Hannington
- Self-funding Superfast Broadband

# Self-funding Case Study - Rotherwick

- Problems – Speeds 1-2Mb/s. 2 Small Business Parks. Home workers. Residents couldn't watch iPlayer. Everything online so slow. Wouldn't be benefitting from improved speeds funded by government.
- End 2011: Early talks with BT re feasibility. Would cost village £27,000 and installation could be within 9 months.
- Galvanised villagers. 50 people from 150 households turned up at meeting.
- In total confidence - Villagers asked to say how much they would personally contribute for fast broadband.
- Within 2 weeks 90% of money pledged.
- Contract signed with BT August 2012.
- Teething problems – Problems with equipment BT engineers carrying + Lots of inconvenience days + Confusion of planning application.
- Work completed by agreed deadline March 2013.
- Speeds now 38Mb/s to nearly 80Mb/s

# Hints & Tips

- Speed test:
  - Close apps. Turn off other devices. Use Ethernet connection if possible, directly into telephone socket not extension
- Try and improve current speed yourself
  - Place router away from electrical appliances
  - Get a better router
  - Reboot router.
  - Distance or Internal brick walls
    - Extend Wi-Fi signal using Wireless Powerline adaptors
  - Clear browser cache. Have as few windows open as possible.
  - Multiple users – You're stumped!!
  - Fault on the line – Ring supplier
  - Slugs in the BT box – Ring supplier
- Register your interest

# Links

## Hampshire's Superfast Broadband Rollout

<http://www.hampshiresuperfastbroadband.com>

<http://www.superfast-openreach.co.uk>

## Register your interest

<http://www.hampshiresuperfastbroadband.com/register-your-interest/>

<http://www.superfast-openreach.co.uk/expression-gen.aspx>

## £3k Grant for SMEs

<http://www.investinhampshire.co.uk/site/news/2497/17/9/2015/hampshire-businesses-urged-to-take-up-superfast-broadband-grant>

## Speed Test Apps

<http://diagnostics.bt.com/login/?workflow=Speed>

<http://speedtest.btwholesale.com>

<http://www.broadbandwatchdog.co.uk/speed-test.php>

## Diagnosing Speed Problems

<http://www.hampshiresuperfastbroadband.com/residents/improve-your-current-speed/>

<http://consumers.ofcom.org.uk/internet/broadband-speeds/broadband-speeds-2/>