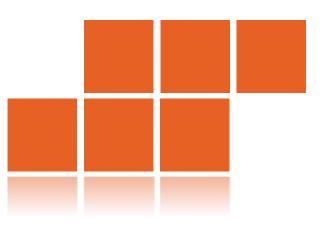
# Broadband and Telecoms - the role of digital infrastructure in helping deliver a sustainable, low carbon world

**Oliver Johnson** 

July 2019

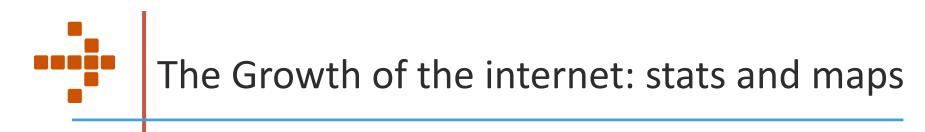


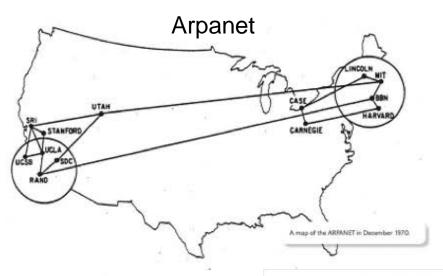
www.point-topic.com



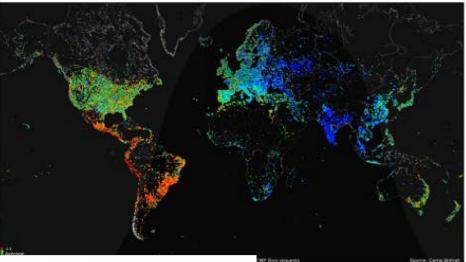
## What do we do?





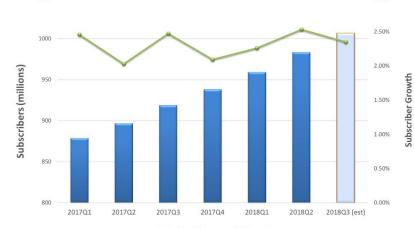


1050



3.00%

Global Fixed Broadband Subscriber Growth Trends



Carna Botnet





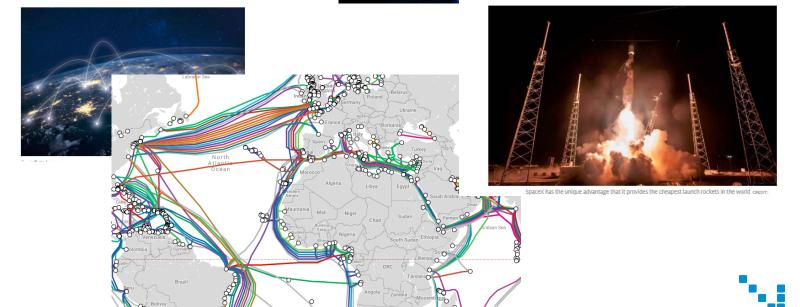
#### Tuesday briefing: Amazon is seeking permission for its own satellite broadband constellation

Satellite subsidiary Kuiper Systems wants to launch a massive low-Earth orbit communications network, Facebook's biggest anti-misinformation project may be the effort to fix its own public image

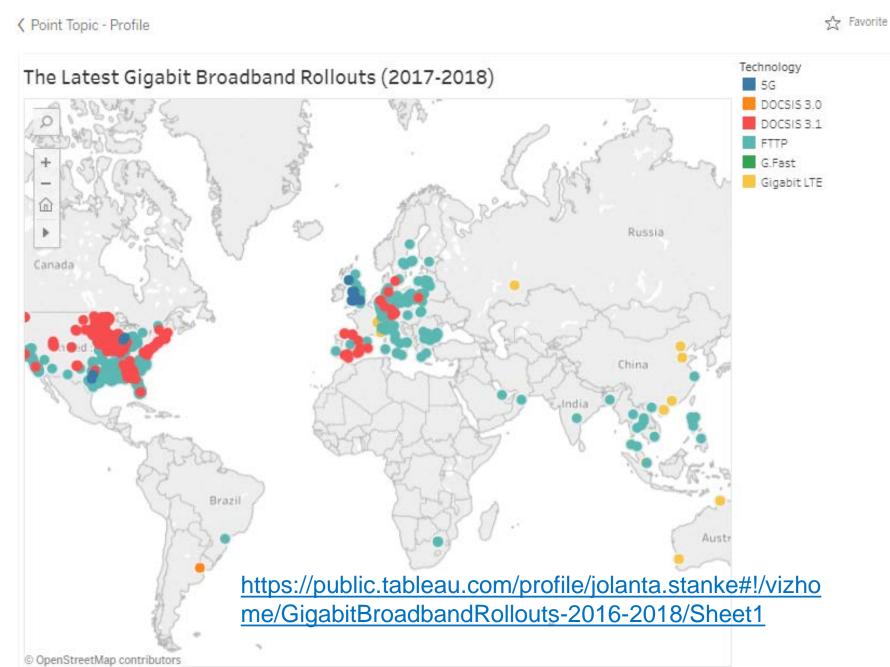


Elon Musk has high ambitions for loworbit internet satellites



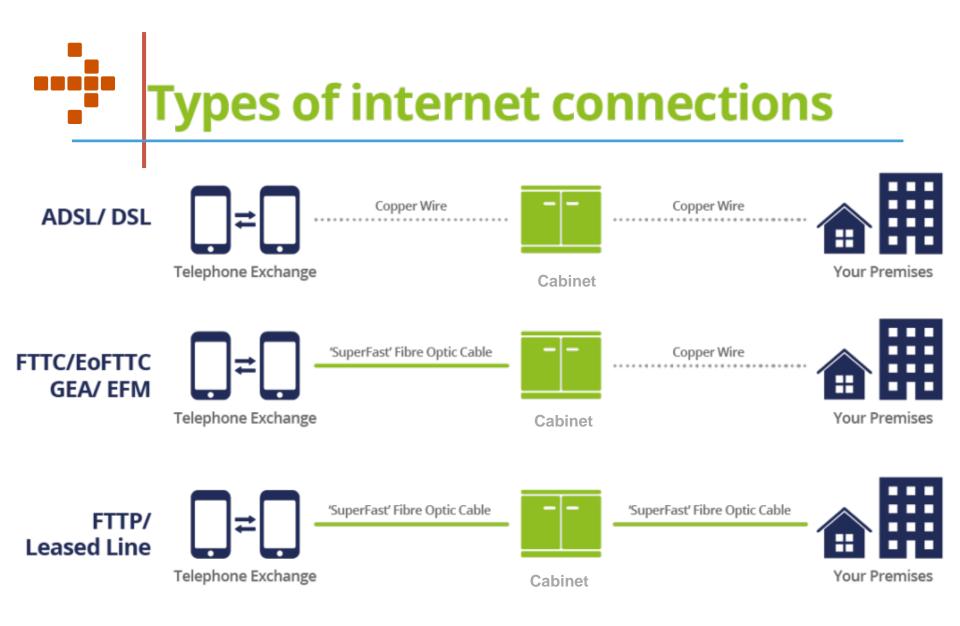


By WIRED



+ableau public

Ω







- https://smartcitiescouncil.com/
- Datacentres consume plenty of power datacentres underwater and under ice
  - Improving but still a large impact
  - More efficiency work from home, well planned deliveries
- The future is 5G but that needs fibre.
  - Approx.10% of the UKs infrastructure required for full fibre and 5G is in place.

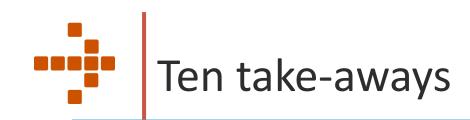




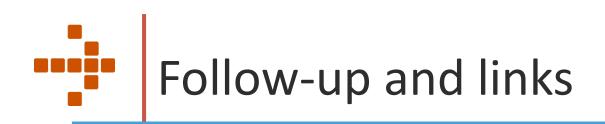


- Massive impacts on town planning
  - Wayleaves have been a major issue
  - Starting with the MDUs but it won't stop there
  - How to work with the operators?
  - Who repairs and replaces in 10 or 15 years?
- Systems integration
  - Re-engineer your processes
  - Update all your databases
  - Be aware of privacy and GDPR





- 1. Planning is core to the impact of broadband
- 2. Every roof, pole and surface is a possible money earner
- 3. Wayleaves (seem to be) a good mechanism for engaging (and controlling) operators
- 4. Try not to believe the hype at least not the timescales
- 5. Stand on the shoulders of giants lots of the work has been done
- Bandwidth is bandwidth be technology agnostic (but really it is fibre) since edge conditions exist
- 7. Meet ultimate grand objectives with smaller, compartmentalised steps
- 8. Single point of contact where possible
- 9. Uber Eats/Deliveroo and other network enabled services
- 10. Support local business broadband can revitalise as well as cannibalise



- <u>https://www.researchgate.net/publication/327228818\_Energy\_savings\_from\_Smart\_Cities\_A\_critical\_analysis</u>
  - <u>https://www.smartcitiesworld.net/smart-cities-news/smart-cities-news/which-cities-make-the-climate-change-a-list-4171</u>
- <u>http://www.broadbanduk.org/</u>
- https://www.ispa.org.uk/
- <u>http://labs.thinkbroadband.com/local/index.php?tab=3</u>
- <u>https://www.submarinecablemap.com/</u>
- http://census2012.sourceforge.net/paper.html
- <u>https://www.cityoflondon.gov.uk/business/commercial-property/telecommunications-and-utilities-infrastructure/Pages/wayleaves.aspx</u>



### POINT**III topic**

#### Oliver Johnson, Chief Executive

oliver.johnson@point-topic.com

020 3301 3303

www.point-topic.com