

**PLEXUS**  
WIFI

ARC  
INTERNATIONAL  
LTD

*Infrastructure Telecoms Renewables Unified*



# PLEXUS WIFI

## WIRELESS FIBRE

SOLAR POWERED SUPER FAST INTERNET SERVICE



## COMPANY PROFILE

[WWW.ARCINTERNATIONALLTD.COM](http://WWW.ARCINTERNATIONALLTD.COM)



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# INTRODUCTION TO ARC INTERNATIONAL LTD, CITY WIFI UK & PLEXUS WIFI

Arc International Ltd is the merging of 'City Wifi UK Ltd and 'Solumi', a solar powered LED Street lighting company and have been developing solar powered telecom networks to deliver high capacity infrastructure for the past 5 years.

Over the years we have developed metropolitan networks for the UK and most recently the African continent that have required resilient alternative power solutions. As a result we have created a carbon neutral environmentally friendly way to revolutionise telecoms. Enter the 'Plexus Wifi' solution, a solar powered, scalable to city wide gigabit wifi network.

Our innovations in network deployment have further allowed us to deploy transformational technology achieving phenomenal connectivity speeds with low latency while creating opportunities to monetise and efficiently operate internet services and infrastructure.

Our expertise in regard to this particular project stems from the core business team originating from broadcast radio, BT and national ISPs in the UK and leading telecoms organisations such as Vodafone and Nokia.





# The Plexus Wifi Solution



Plexus Wifi is a solar powered, city wide wifi network solution. It boasts high capacity, high availability and world class resilience with self healing technology that is 'power cut proof'.

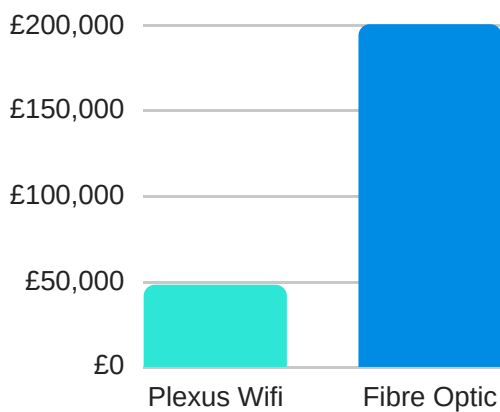
We beam 'fibre like' internet over significant distances over bodies of water, over land and even design routes to circumvent mountains and other geographic challenges. We then blanket cover entire locations so user are engulfed in fast wifi.

Our technology was built to bring first world connectivity to the most underdeveloped locations around the world and brings the speed of fibre optic with the ease of wireless deployment.

Current Fibre roll out plans will take between 5 and 10 years to fully cover the UK, Plexus wifi can cover a city the size of Birmingham in just 12 weeks and the blanket wifi coverage is managed over a secure cloud meaning a technician is no longer required to attend properties to install connections, they just need to sign up for an account because the wifi is already covering their property.

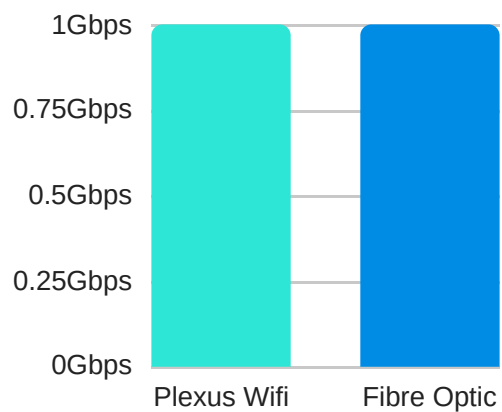
Plexus Wifi is powered simply by 3 to 5 hours of natural daylight (even on overcast days) and comes with backup batteries.

### The Cost of Deployment: Plexus VS Fibre



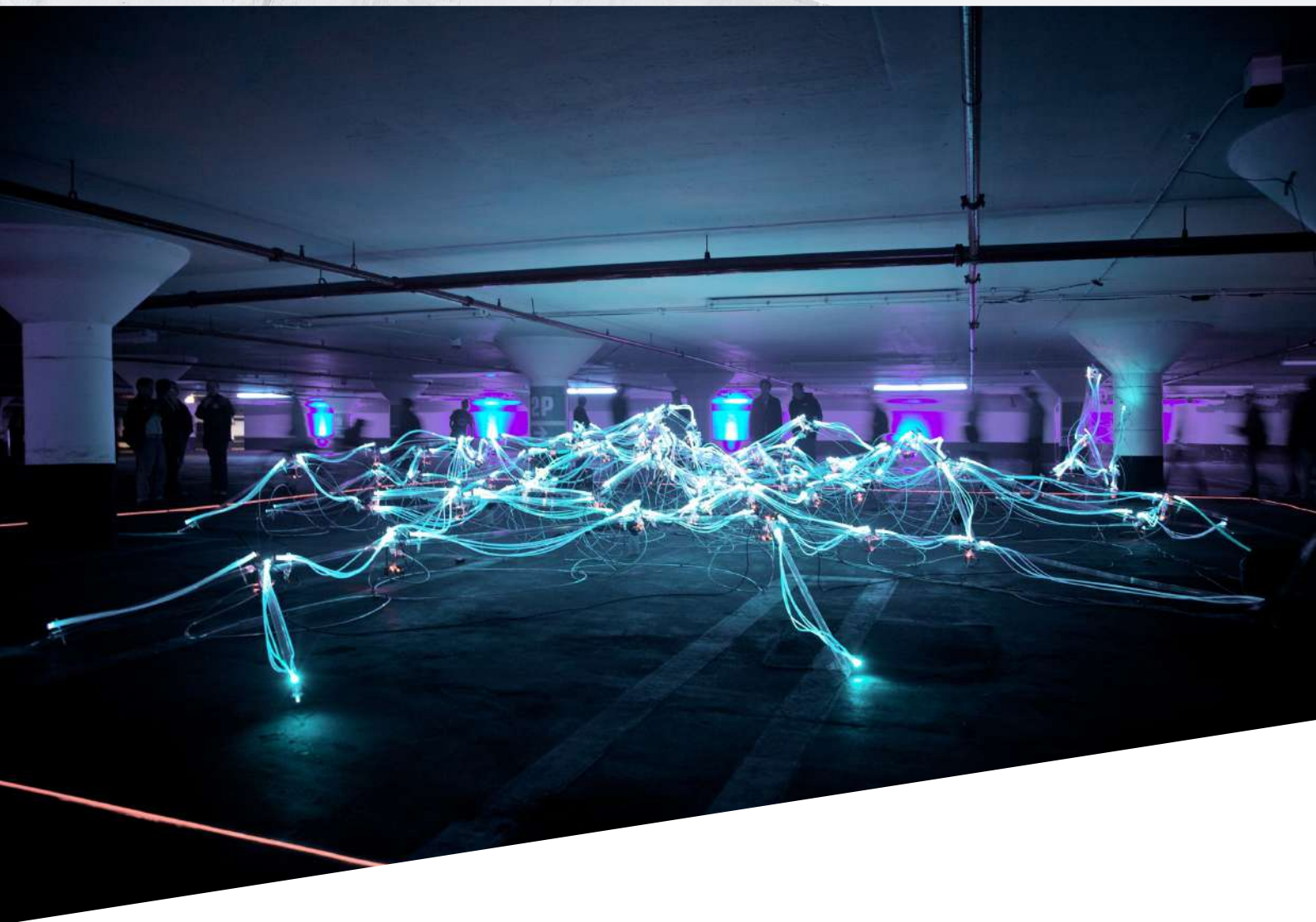
(10km fibre link connecting 600 homes vs 1x Plexus Wifi mast deployment)

### End User Speeds: Plexus VS Fibre



(Like for like service with CPE installed)





## We help communities get connected...



The UK's 'slow speed cold-spots' are prime locations as internet speed expectations matched with the bandwidth demand from smart devices (TVs, laptops, tablets, smartphones, smart meters and other medical and domestic devices) now found all over British homes.

BDUK, part of the government arm DCMS have a mandate to connect 95% of UK properties to gigabit speed/ fibre optic connectivity by 2020. This is a challenge that even BT and Virgin Media are finding difficult.

New innovation **MUST** be part of the solution to complete the connectivity goals of the from BDUK.

More info here: <https://www.gov.uk/guidance/local-full-fibre-networks-programme>





# Mission Statement

Arc International Ltd will and dominate rural and semi rural Internet service provision in the United Kingdom.

We expect to transform the UK telecoms sector in the UK achieving quantum growth through acquisition and consolidation of existing small to medium ISPs. Our unmatched USPs, passion and world class management team are creating a formidable organisation that matches the incumbent telcos yet maintaining impeccable customer service and loyalty.

Deployment in the UK is part of a greater international Solar powered wifi rollout to bring super fast Internet disruptively priced in emerging markets. We will be the leaders in international wifi Roaming with our low capex, mass market and highly scalable offering.

Arc International Ltd is on a mission to geometrically grow the organisation and dominate in regions of the world under served with affordable solar powered reliable internet service.







## The Technology

The technical solution, proprietary technology and network design was developed by Phillip Cooper and Lord Allan Okello. Phillip Cooper, who is the Chief Technical Officer and currently contracts for British Telecom (BT) and Hello Telecom in Nottingham. The team have consulted Bruce Haendel, one of the core team members in the building of the world's first ever wifi covered city in Fukuako (Japan) over 15 years ago and for solar power systems Mike Boxwell, a world renowned solar inventor and innovator responsible for the first solar powered car who has also authored a number of sector leading books on solar technology.

Plexus wifi has been built to deliver services where there is no existing telecoms or power infrastructure and outperform 4G solutions and bring fibre optic benefits on a wireless platform able to be transmitted long distances and cover entire cities with rapid scalability and cloud management.

Plexus wifi is intelligent, self healing and reports issues in real-time, the transmission system and battery system are both hardcoded to the network to deter theft as both parts of the system.

The Plexus Wifi solution is more cost-effective than current fibre deployments but yields the same speeds and performance for the end user. It is also significantly faster to deploy and has fewer limitations because of geography and population size. It is the perfect extension or replacement of fibre that be expanded with bandwidth demand.

Below are some of the additional features Plexus wifi can host on the network:

- Internet access,
- IPTV / Video on Demand TV services
- CCTV,
- Automated signals (weather/pollution sensors, etc),
- Traffic light control,
- GPS



## The Team



Jorgen Nilsson  
Chairman of the Board: Award winning CEO (2017) Vodafone, Ericsson, MTN, Acision, Hewlett Packard and more



Lord Allan Kenneth Okello  
Founder: Former Technical Project Specialist with client list including: BP, HRH Prince of Saudi Arabia, GSK, Rolls Royce and more.



Richard Dodd  
Board member and former CEO of Cable and Wireless bringing 30 years of telecoms sector experience.

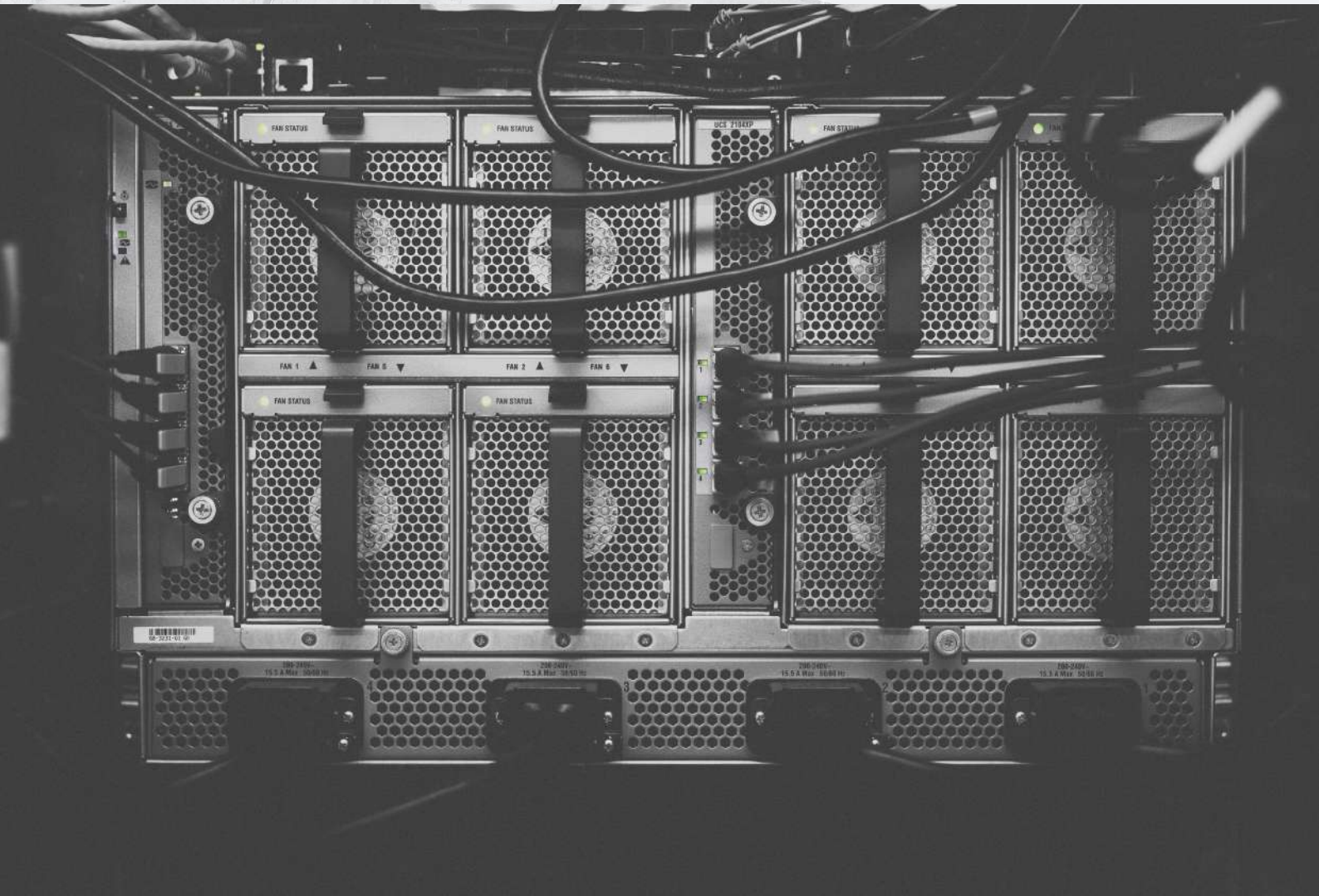


Phillip Cooper  
Chief Technical Officer; formerly worked with BT, Boundless Networks, Hello Telecom PLC and more.



Cornelius Muyunda  
Chief Financial Officer; former senior manager and or Group Financial Controller at Burger King, Subway and Octavian UK.





## Contact

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