



PRESS RELEASE
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Liverpool 5G Create and Blu Wireless develop industry-boosting IP

As the UK jump-starts its post-Covid economy, Liverpool 5G Create and leader in mmWave technology, Blu Wireless, create new, industry-boosting, multi-sector IP (intellectual property).

Covid has stalled output in many sectors, Liverpool 5G Create, alongside [Blu Wireless](#), has created new IP (intellectual property) to help a range of industries thrive beyond the pandemic. The Liverpool 5G Create project, part of the [DCMS-funded 5G Testbeds and Trials Programme](#), built a private, independent 5G network in and around Kensington, Liverpool, to support 5G enabled health, social care and education applications for the local community.

Partners, Blu Wireless, developed unique mmWave technology for the Liverpool 5G project, to provide coverage in densely populated city streets. Liverpool 5G's 'network-of-networks' is itself a unique technology. A hybrid consolidation, it uses mmWave back-haul, LoRaWan, and more recently, Telet Research's 5G small cell network and roaming technologies. Designed using a bespoke simulation-based network planning tool and supporting multiple, innovative health applications, the project has already generated significant new IP.

Neill Young, Technical Marketing Manager and Smart City Lead at Blu Wireless, says the Liverpool project has been a great proving ground for how the mmWave networking equipment performs in a dense, urban environment: "We used the Liverpool deployment as a chance to refine and advance the development of our mmWave networking products. New features, introduced as part of the Liverpool 5G

project, that are finding their way into other projects, include new generations of hardware, extended range through multi-hops and the integration with 5G small cells.

This is great news in terms of Liverpool 5G Create's success, but also proves its legacy beyond its government-funding as a viable, commercial entity. The creation of multiple new IP such as copyrights, patents, or trademarks, indicates a business is developing market-ready innovations to generate revenue and potential opportunities across other businesses or industries.

Upgrading and expanding Liverpool's independent, private 5G network continues apace. This year, the project will also focus on education by supplying 5G support to local schools, homeschoolers, and Kensington Community Centre. Blu Wireless continues to upgrade the mmWave network in Liverpool (deployed during the original DCMS funded 2018 Testbed and Trials Programme) with its latest generation of wireless networking modules, whilst Telet Research adds its small cell network for 5G user and device access.

This generational upgrade, carried out by Blu Wireless, allows for more flexible deployments by including two modems and antenna systems per node, as well as improved mounting and environmental protection. The network range is extended by transferring data across multi-hops, so that hard-to-reach areas can have multi-gigabit access and backhaul network speeds without needing line-of-sight across the network. This will extend to fully dynamic mesh capabilities, meaning that traffic paths can be rerouted if a signal is blocked by, for example, a truck parking in front of a node.

Perhaps the project's most significant development is the integration and deployment of 5G small cells, used by operators to create 5G wireless networks for consumers. Neill Young further explains: "This integration is vital as mmWave technology can support the creation of wireless mesh networks in indoor and outdoor areas, which can be implemented to address the connectivity needs of cities and communities. Connecting sub 6-GHz 5G networks via mmWave access and backhaul opens up a whole range of new opportunities in dense, urban areas and enterprise deployments,

including delivering 5G enabled critical public services, and accelerating the roll-out of IoT applications essential for smart cities.”

Liverpool 5G Create supports a range of health, social care, and education applications including: an anti-anxiety app for younger children (on wearables); AI-supported mobile pressure ulcer monitor; a ‘haptic hug’ for people at care homes; sensors to prevent falls; and 5G support for education and community groups. The 5G connectivity is provided free to people taking part in the project, reducing the digital divide, and ensuring the community has equal access to the life-changing technologies they need.

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Notes for Editors

About Liverpool 5G Create

Liverpool 5G Create is led by the University of Liverpool with partners Liverpool City Council, Blu Wireless Technology Ltd, Broadway Partners Ltd, Liverpool John Moores University, CGA Simulation Ltd, Docobo Ltd, NHS Liverpool Clinical Commissioning Group and MerseyCare NHS Foundation Trust. The project will be managed and supported by the eHealth Cluster Ltd with further services supplied by Telet Research (NI) Ltd, AIMES Management Services Ltd and Real Wireless Ltd. This is the largest, independent, private, public sector, hybrid 5G network in Europe. 5G technology is supporting a medical grade device that monitors health conditions remotely, an app that teaches anxiety reduction for children, a remote GP triaging service, wound care and management, and sensor technology. The project runs until March 2022 and will develop a blueprint for the use of private 5G networks in delivering public services. The project builds on the previous 5G Health and Social Care Testbed in Kensington, Liverpool. Liverpool 5G Create will increase the area covered, upgrade the existing mmWave nodes, integrate small cell technology and trial a range of new use cases in health and social care. Information on the previous testbed can be found at:

www.liverpool5g.org.uk Twitter: @liverpool5G [5G Testbeds and Trials Programme - GOV.UK](https://www.gov.uk/government/programmes/5g-testbeds-and-trials-programme)
(www.gov.uk)

About Blu Wireless

Blu Wireless is disrupting the market with 5G mmWave wireless system solutions that are driving technological change to meet global connectivity needs, both now and in the future. Trusted partners of the world’s biggest names in telecoms, Blu Wireless works together with its customers to provide complete design, testing, and validation, serving emerging markets in Mobility, 5G Backhaul, Perimeter Security and Public Safety and Smart Cities.

The company has an experienced leadership team led by CEO Alan Jones. Alan was formerly CEO of both VeeSystems and Virtuosys and a co-founder of IPWireless. Principally based in Bristol with over 100+ staff, Blu Wireless has assembled a world class engineering team. Website:

www.bluwireless.com/