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5G Funding Competition
Partner Introduction Webinar
Webinar will start soon. This briefing is being recorded.
Please post any questions you have in the Q&A chat.





















Department for Science, Innovation, & Technology

Agenda

| 11.30am - 11.35am | Welcome Paula Fee, Belfast City Council |
|-------------------|--|
| 11.35am - 11.40am | Introduction to applicant support and competition context Guy Middleton, Spirit Public Sector |
| 11.40am - 11.45am | Meet the applicant support team leaders Tony Sceales and Ed King, Spirit Public Sector |
| 11.45am - 12pm | Example 5G/advanced wireless use cases Tony Sceales and Ed King |
| 12pm - 12.45pm | Presentations from prospective suppliers and partners Pitchers |
| 12.45pm - 1pm | Q&A and next steps Guy Middleton |











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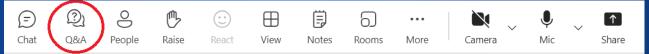
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& Technology

Questions & Answers

Please use the Q&A facility in Teams





Belfast















Translink





5G Funding Competition

Full competition and applicant support details are available on the website www.smartbelfast.city (includes video recording and slide deck from Competition Briefing Webinar on 26 June – if you missed it).



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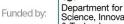












Today's session

This session is about *building the partnerships* to deliver successful wireless projects

- Applicant Support you're not on your own
- Use Cases there are examples to learn from
- Solutions suppliers have ideas for addressing your challenges

Today is about helping people to connect.









Introduction

- The competition is open to use case owners/solution users only.
- They must apply, not the suppliers.
- But suppliers are crucial to getting projects off the ground.
 Most applicants will need a delivery partner to implement advanced wireless.
- Suppliers find applicants
- Applicants find suppliers and partners, look at what others are doing, use the applicant support











Applicant support

- Up to three days of free expert consultancy support to help applicants to:
 - \circ develop 5G/advanced wireless projects
 - $\,\circ\,$ identify potential partners to resolve capability or capacity gaps
 - \circ improve their application, aligned to the competition's guidance.
- This **free**, **optional** service is **independent** and **confidential**. It will work with applicants as a critical friend, offering practical advice and challenge. It is not a bid writing service.
- Don't worry if your project idea isn't fully formed yet get in touch and the team will help you to explore and develop your use case idea.















Meet the team

- Decades of real-world experience In telecoms, government, and digital delivery. We've seen what works.
- Well-connected

We know the types of suppliers you'll need and how to find them.

• We understand how grants work We've helped design, judge, and deliver schemes like this. We know what assessors want.



- 30+ years in Tech and Telecoms
- 5+ years as Technical Design Authority at DCMS/DSIT on 5G Testbeds and Trials and Future Networks Programmes
- Innovate UK evaluator
- Former Lead Architect BBC
- Former Analysys Mason/ATOS
 Consulting
- UKTIN Creative Industries EWG



Tony Sceales

- 30+ years in Tech and Telecoms
- 4 years at DCMS/DSIT leading Development of the 5G Testbeds and Trials Programme
- Technology Director of Borderlands 5GIR
- Founder/Chair/CEO/CTO
- Global Techology leadership roles at BT, IBM, Telstra, Swisscom, KPN
- Co-chair UKTIN Health & Care EWG

















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Science, Innovation

5G and Advanced Wireless – Context

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- Remember: **5G is evolutionary, not revolutionary**. It's a direction of travel, not a fixed point.
- Projects could include private 5G, LTE, Wi-Fi 6 & 7, LPWAN, satellite, etc. depends on what fits the use case.
- **Competition scoring favours 5G**, but that's not the only factor deliverability, value for money, clarity of need all count.
- Don't over-engineer. The best projects will be credible, quick to implement, and clearly beneficial.





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5G and Advanced Wireless Techniques

- Advanced Wireless:
 - o 5G & LTE, Private and Public Networks
 - \circ LPWAN
 - WiFi 6 & 7
 - o mmWave
 - 0 ...
- Wireless is important when you have:
 - Things or people that move
 - $\,\circ\,$ Things that are dispersed over wide areas
- Don't do 5G for the sake of it horses for courses!







🕨 📕 Belfast

Harbour





Examples

data transmission



Mobility



Flexibility

The flexibility of 5G means that networks can often be set up more quickly compared to traditional wired networks that require extensive planning and cabling. This can support more rapid deployment and reconfiguration of business operations.

Examples: Construction: Rapid deployment of site connectivity for project duration. Event location manufacturing: Quick setup of temporary production facilities. Emergency response: Rapid deployment of connected command centres.

Remote access

5G's ultra-low latency delivers realtime communications with zero lag, offering better real-time decisionmaking off site. This can support industries that involve remote workers such as maintenance staff, engineers and technicians.

Examples: Manufacturing: Remote expert troubleshooting of complex machinery. Utilities: Remote inspection of infrastructure using connected drones.

Security

5G offers more advanced encryption capabilities, data privacy, authentication, and controlled access which are particularly beneficial in regulated industries like healthcare, manufacturing, and logistics.

Defence manufacturing: Secure production

 is, data privacy,
 connections enable users to

 ontrolled
 work flexibly. Access full industrial

 ticularly
 systems and controls whether on

 d industries
 the factory floor, at a client site, or in

 facturing, and
 a supplier meeting.

Examples: Field service: Engineers accessing full diagnostic tools and documentation on-site. Quality control: Inspectors conducting remote

Faster, more stable 5G mobile

Use Case Examples



Health & Social Care

- Remote patient diagnostics
- Gateway uses 5G/LTE or Satellite and translates to wireless health devices.
- Mobility for patient and carer
- Benefits: Patients stay at home longer, lower risk and costs versus hospital, built-in data capture/accuracy



Creative industries

- Pop-up Outside Broadcast
- North West 200 (NI motorcycle race)
- A 5G network in a box that supports a broadcast production crew where there's unreliable mobile coverage.



Logistics

- Real time supply chain tracking both in-building and in wider areas.
- Track and monitor deliveries, product and assets in real time.
- End user apps provide improved customer experience.

Use Case Examples



Manufacturing

- Moving parts connected wirelessly.
- Essential equipment relies on reliable connectivity.
- Reliability, mobility and cost can be tailored to meet user's requirements.



Environmental monitoring

- Where no mobile coverage available.
- IoT devices with direct to satellite connections.
- Used in Wales to monitor river levels and pollutants.
- DEFRA support nutrient monitoring for growers



Event management

- Provide a pop-up network for special events.
- Supports organiser and public safety communications
- Allows calls from the public to emergency services.
- Supports cashless payments.

Use Case Examples

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"If the endpoint moves around or many endpoints are over a wide area – wireless..."

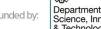
Resources

- Belfast 5GIR <u>5G Adoption Toolkit</u> (transport, logistics, creative industries, construction)
- Glasgow 5GIR <u>Projects</u> (social housing, health and social care)
- Ayrshire 5GIR Use cases (manufacturing, creative industries, tourism, aerospace)
- Borderlands 5GIR <u>Use cases</u> (tourism)
- Oxfordshire 5GIR <u>Use cases</u> (rail transport, advanced engineering)
- Greater Manchester 5GIR <u>Programme</u> (manufacturing, decarbonisation)
- River Severn Partnership 5GIR Projects (rural industries, water management)
- North East 5GIR <u>Report</u> (transport and logistics, creative industries, agritech)
- Growing Sussex 5GIR <u>Use Cases</u> (food production, agriculture)
- West Midlands 5GIR <u>Use cases</u> (manufacturing, smart communities)
- UKTIN Deployment Toolkits (health, transport, logistics, manufacturing, agriculture)









Presentations from prospective suppliers and partners

- 3-4 minutes each.
- Focus on: What you offer, what types of projects you can support, any past work that's relevant, example 5G/advanced wireless use cases.
- Be clear if you're a network provider, integrator, device supplier, platform/software provider, facility, business support consultancy etc.
- Invite follow-up conversations this is about starting relationships.







Innovation Partner For Your Business

Ashleigh Jordan 5G Business Development & Innovation Manager VodafoneThree ashleigh.jordan1@vodafone.c



Co-Creation, Collaboration and Innovation – Underpinned by Advanced Wireless Technology



Connected Worker

Working with the DPMC to deploy a private 5G network that is currently demonstrating use cases such as AR and VR technology to improve efficiency and training for advanced manufacturing across Scotland.

Digital Twin for Aviation

Working with UWS, Dell and the aerospace ecosystem to utilise a "5G MPN in a box" to demonstrate the value of 5G to create virtual environments for aviation manufacturing

Water Quality Monitoring

Working with the local fisheries and environmental agency's to protect Atlantic Salmon, Vodafone installed IoT sensors that allow the real time monitoring of the water quality within the River Nith.

Next Gen Networks for Health & Social Care

Working with GCC to trial network slicing technology to enable "dedicated" service to care homes for critical digital devices



Assisted Living Programme

As the technology partner for Spinal Injuries Scotland , We are deploying smart devices within the home to support rehabilitation and independent living

5G Connected Campus

Partnering with Oxfordshire County Council as part of their 5GIR programme – Vodafone is delivering a smart connected campus solution using private 5G technology to deliver a "best in class" digital infrastructure

Network as a Sensor

Endorsed by Scottish Government, SEPA, Transport Scotland and the London Boroughs – Vodafone have deployed a smart environmental monitoring network across Glasgow and the City of London

Everyone Connected

Committed to bridging the digital divide and skills gap across the UK. Upskilling businesses and communities to support a digital future.

JET Connectivity

We develop and deploy pop-up, fibreless private 5G networks for rapid, secure deployment, enabling fast, robust communication for industry, energy, construction, defence & security, port and offshore safety, disaster relief, and search & rescue operations.

- 7 seconds from **power up** to **live network** in any environment urban, industrial, rural, land, sea or air
- 100% UK designed and built
- Temp to Perm, fully scalable 5G solutions

Alex Lawrence-Berkeleyalexlb@jet-eng.comHead of Sales and Marketinghttps://jet-eng.com





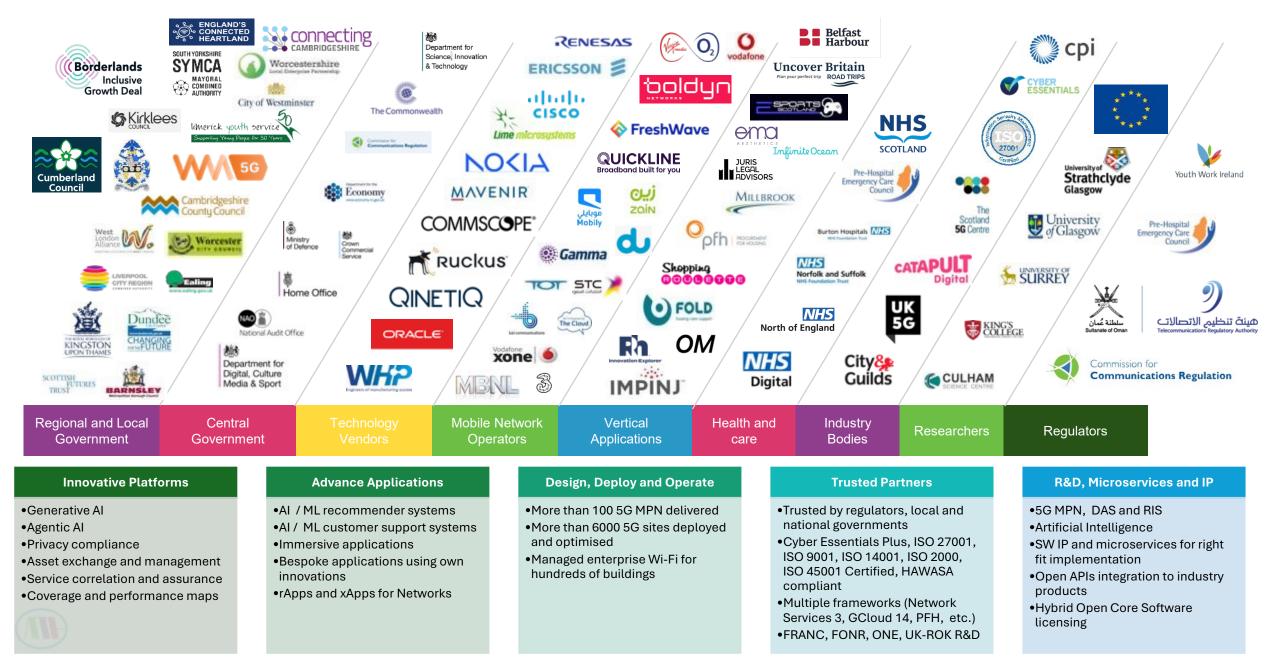


5G Webinar

Contact information: Peter Najm(peter.najm@awtg.co.uk) Ian Vernon(ian.vernon@awtg.co.uk)



Delivering value to customers through quality and expertise



Who are we and what do we do?



Telet Research (N.I.) Ltd trading as Telet Company no: NI642439 VAT no: 262 426 905 Registered address: Forsyth House, Cromac Square, Belfast, Northern Ireland BT2 8LA 2001 +44 2895 3800

- UK's smallest and most agile MNO
- We have:

let

- Developed and deployed a full set of Mobile
 Network capabilities
- Extensive experience working with DCMS/DSIT (both Lead & Project Member)
- A reputation for innovation and making systems that work

Our Focus:

- Fixed Wireless Access (FWA)
- Multi Operator Neutral Host (MONeH)
 - Private Networks and Applications (5G SA)

Our Solutions Provide Mobile Coverage

- Areas where it is not commercially viable for large MNOs to deploy RAN
- Scenarios where current coverage does exist, but does not meet commercial or functional requirements
- Scenarios where Private RAN offer Public access

www.tel.et





CoSTAR Screen Lab

- Closed and mobile 5G
 Network Infrastructure
- Multi-site real time previsualisation, production and post-production
- Low latency data transfer in studio environments (LED wall focus)
- Camera tracking
- Automation of LED wall configuration
- High volume, real-time motion capture
- 3D and 4D scanning applications for real time
- Real time spatial audio automation
- Artificial Intelligence and Machine Learning applications in real time studio environments

Contact: <u>fr.lyons@ulster.ac.uk</u> Website: <u>www.studioulster.com</u>





Clear Insights, Smarter Spaces.











Temperature



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aidan@bee.space

www.bee.space



Trusted by









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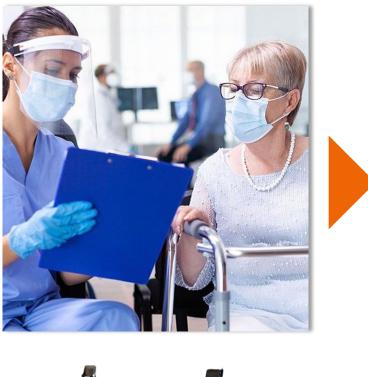
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Colon Capsules



INTELLIGI® 5G & AI ENABLED CAPSULE ENDOSCOPY

+ Deployable anywhere with 5G + Nurse-guided procedures via video + Efficiency and accuracy boosted by AI + Rapid GI triage outside hospitals + Reduces wait times + Supports rural access

Corporate Health Scaling Healthcare Services Liz@corphealth.co.uk

Patient Box

BrightSites by Signify

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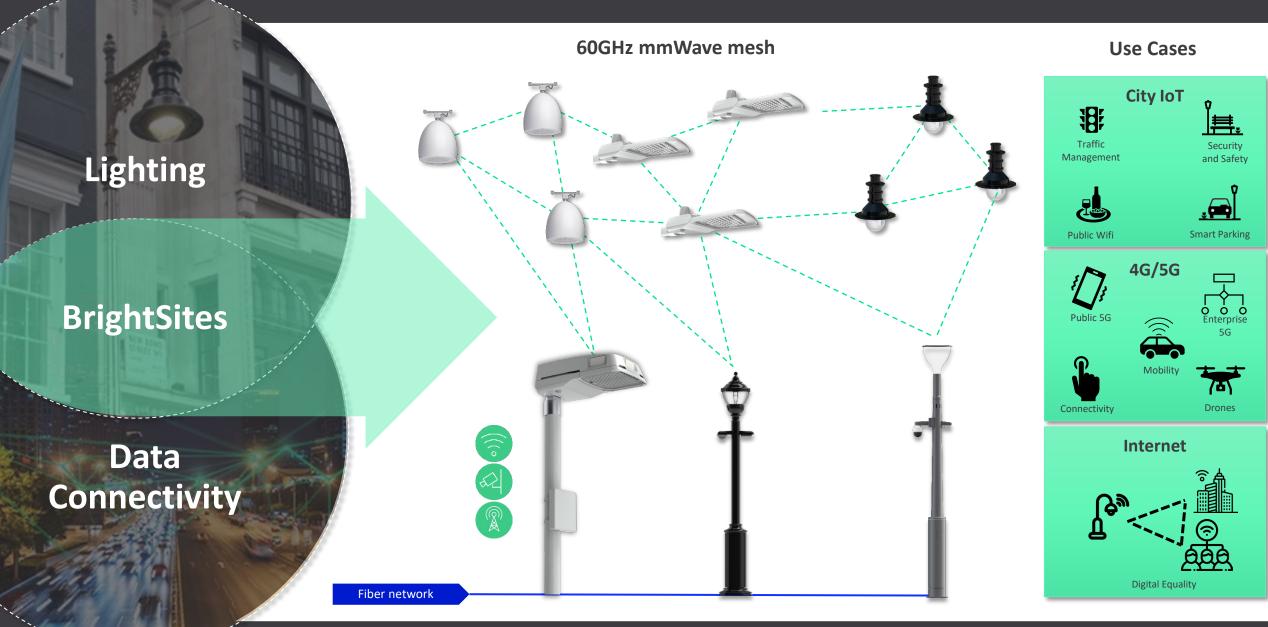
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The Connectivity Grid Of The Future

Negin Sabet – Senior Key Account Manager Negin.sabet@signify.com 07845 8383 391

signify





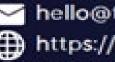
Signify

- Expertise and a proven track record
- Delivering remote wireless data projects across Northern Ireland
- LPWAN and 5G Technologies
- Partners : Deloitte, Civica, NIE
- Agri-tech, Energy, Environmental, Hospitality, Logistics, Utilities, Manufacturing, Satellite



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Q&A

- Questions for presenters?
- Anyone want to make themselves known? Put your hand up.
- Questions about applicant support?
- Questions about the competition?













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- This **free**, optional service is independent and confidential. It will work with applicants as a critical friend, offering practical advice and challenge. It is not a bid writing service.
- Don't worry if your project idea isn't fully formed yet get in touch and the team will help you to
 explore and develop your use case idea.
- Email <u>innovationfunding@belfastcity.gov.uk</u> by **11 July 2025** to register for applicant support. If you register after this date, you will be added to a reserve list.





Next steps

- Thank you to all presenters.
- We'll offer partnership advice throughout the Applicant Support
- Keep talking. This session was about **starting conversations.** Now it's over to you to build something great.

Get in touch

All competition and applicant support information is available at <u>www.smartbelfast.city</u> Email your questions and register for applicant support at <u>innovationfunding@belfastcity.gov.uk</u>













This session has now ended.





















203 Department for Science, Innovation, & Technology