



Department for
Digital, Culture,
Media & Sport

- 5G Testbeds and Trials programme update
- Driving Adoption
- Spectrum learning so far



£200m

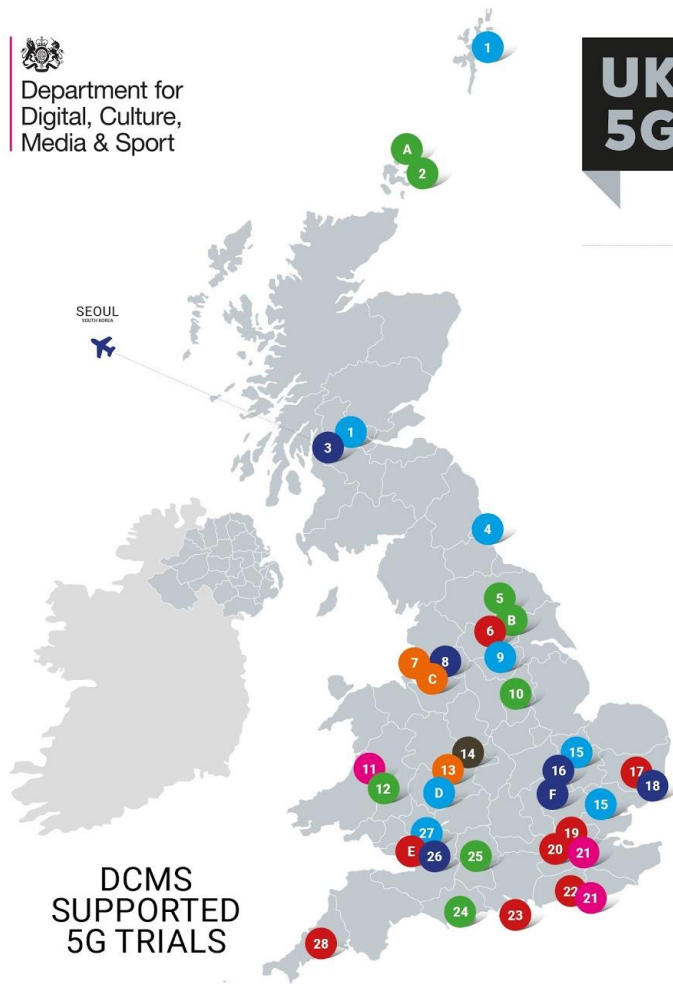
invested in a nationally coordinated
programme of 5G testbed facilities & trials,
in a range of geographic &
vertical market segments.

190+

Organisations involved in the programme
since 2017 including all of the
tier 1 operators, 23 universities and
16 Local Authorities.



Department for
Digital, Culture,
Media & Sport



URBAN TESTBED
West Midlands 5G



RURAL
PROJECTS



INDUSTRIAL
MANUFACTURING & CONSTRUCTION



HEALTH &
SOCIAL CARE



CREATIVE,
MEDIA & SPORT



MOBILITY, PORTS
& LOGISTICS



TELCO SUPPLY
CHAIN
DIVERSIFICATION



14 INNOVATION CENTRES	A 5G RURALFIRST (COMPLETED)	D WORCESTERSHIRE 5G (COMPLETED)	C LIVERPOOL 5G TESTBED (COMPLETED)	E 5G SMART TOURISM (COMPLETED)	F AUTOAIR (COMPLETED)	11 NEC NEUTRORAN
14 INFRASTRUCTURE ACCELERATION	B 5G RIT (COMPLETED)	1 5G-AMC ²	7 5G LIVERPOOL CREATE	6 LIVE AND WILD	3 5G RAIL NEXT	21 SMARTTRAN OPEN NETWORK INNOVATION CENTRE
14 TRANSPORT	2 5G NEW THINKING	4 5G-CAL	13 WEST MERCA RURAL 5G	17 5G EDGE-XR	8 SMART JUNCTIONS 5G	
14 HEALTH & SOCIAL CARE	5 MANY	9 5G FACTORY OF THE FUTURE		19 GREEN PLANET AR	16 MILTON KEYNES 5G	
14 MANUFACTURING	10 5G CONNECTED FOREST	15 5GEM UK		20 PROJECT VISTA	18 5G PORTS	
	12 5G WALES UNLOCKED	27 5G-ENCODE		22 5G FESTIVAL	26 5G LOGISTICS	
	24 5G RURAL DORSET			23 CONNECTED COWES		
	25 MONEH			28 EDEN UNIVERSE		

Driving adoption

1. Close collaboration with UK5G and their Vertical markets
Better Connected campaign
2. Appointment of Sector Leads for:
 - a. Health and Care
 - b. Manufacturing
 - c. Transport and Logistics
 - d. Creative Industries (including Sports)
 - e. Urban and Rural Places
 - f. International and Space
3. Work through and with our projects to share widely:
 - a. What is 5G for in my sector/organisation?
 - b. How do I make a case for investment in 5G?
 - c. How do I get 5G for my organisation?



Projects and technology - work in progress

Rating : 10 = Highest Priority / 01 = Lowest Priority		Analysis		1	2	3	5	6	
DCMS Supported Trials - Technology Focus - February 2021				Industrial	Industrial	International	Rural	Rural	Rural
Category	Item			5G - Encode	5GEM UK	5G Rail Next	West Mercia Rural 5G	Multi Operator Neutral Host	5G Connected Forest
Spectrum licence	Shared Access Licence	158		8	0	10	6		10
Spectrum licence	Local Access Licence	108		5	0	8	6	6	0
Spectrum licence	Test & Dev Licence	141		8	0	10	8		6
Spectrum	Dynamic Access Spectrum	38		0	0	2	1		?
Spectrum	mmWAVE	50		0	0	10	3		0
Spectrum	Other (TV White Space)	20		0	0	3	1		0
Radio Access Network	5G New Radio non-stand alone	173		0	10	6	8	7	10
Radio Access Network	5G New Radio stand alone	224		10	0	10	10	3	8
Radio Access Network	Macro Cell	148		1	0	10	8		2
Radio Access Network	Small cell	177		10	10	10	10	4	10
Radio Access Network	Open RAN; Multi-Operator RAN	140		8	0	6	8		8
Radio Access Network	Fixed Wireless Access	86		0	0	7	9		5
Radio Access Network	NR-IoT / LTE-M	79		0	0	2	1		4



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Digital, Culture,
Media & Sport

**UK
5G**

**Innovation
Network**

Thank you



200m invested in a nationally coordinated programme of 5G testbed facilities & trials, in a range of geographic & vertical market segments.



A total of 38 projects funded.



190+ Organisations involved in the programme since 2017 including all of the tier 1 operators, 23 universities and 16 Local Authorities.



A total of 30 projects are live.