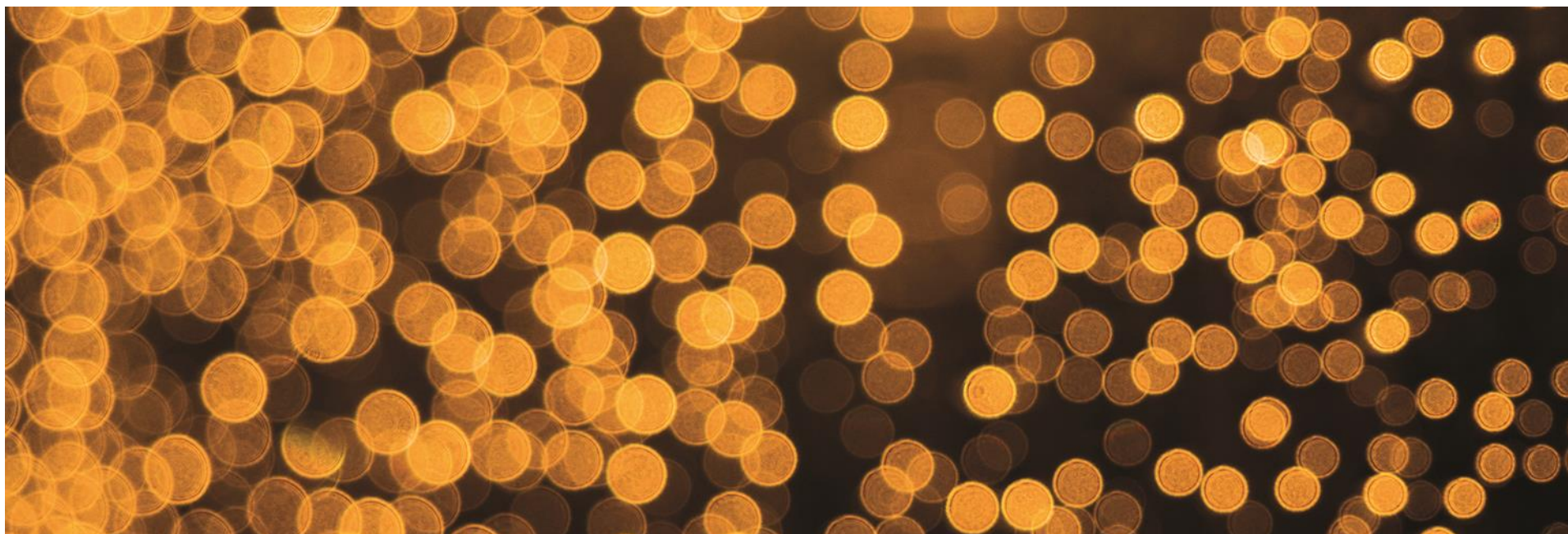


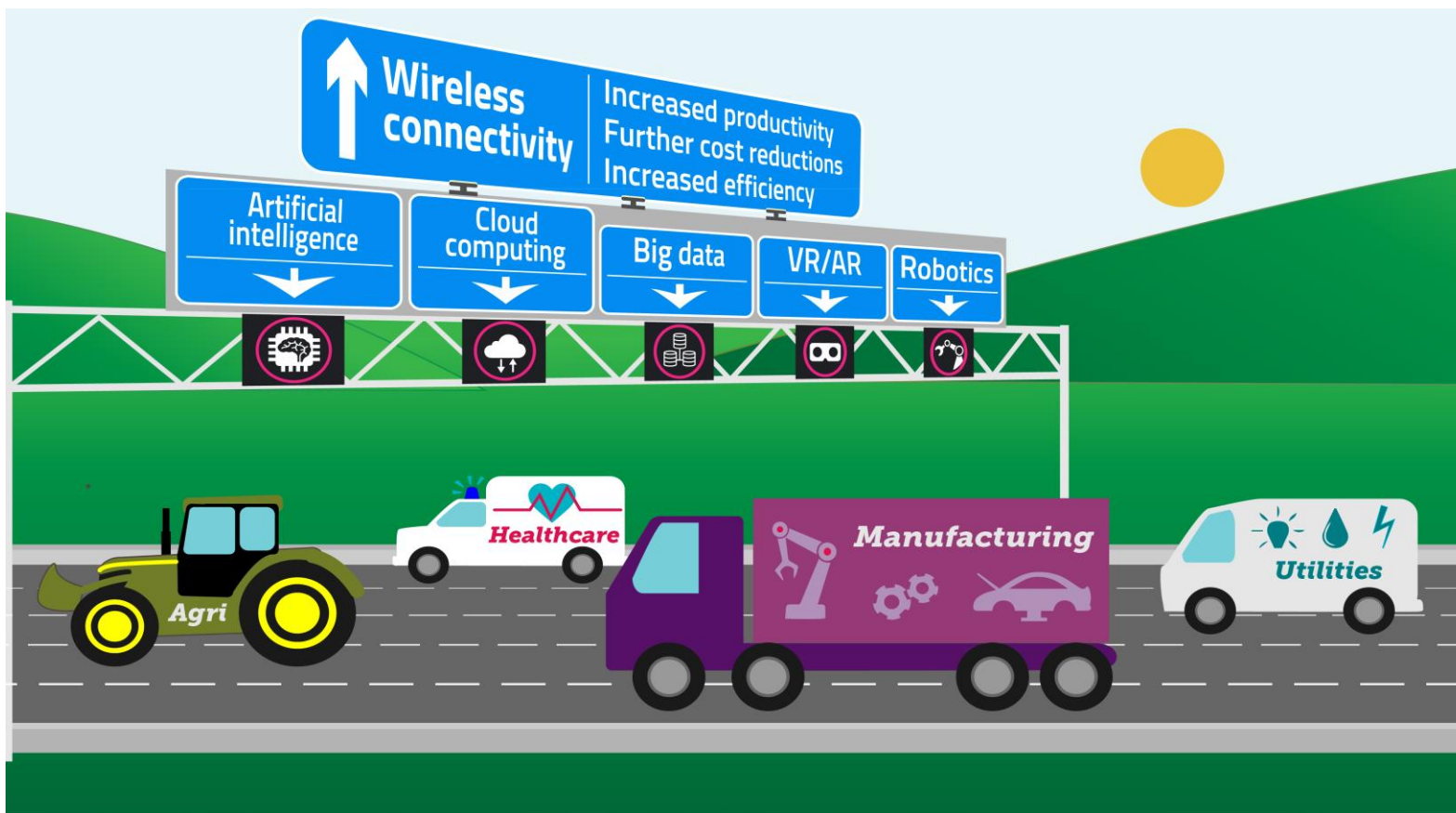
Il ruolo delle reti pubbliche e private nella trasformazione digitale della UK

Cristina Data - Ofcom

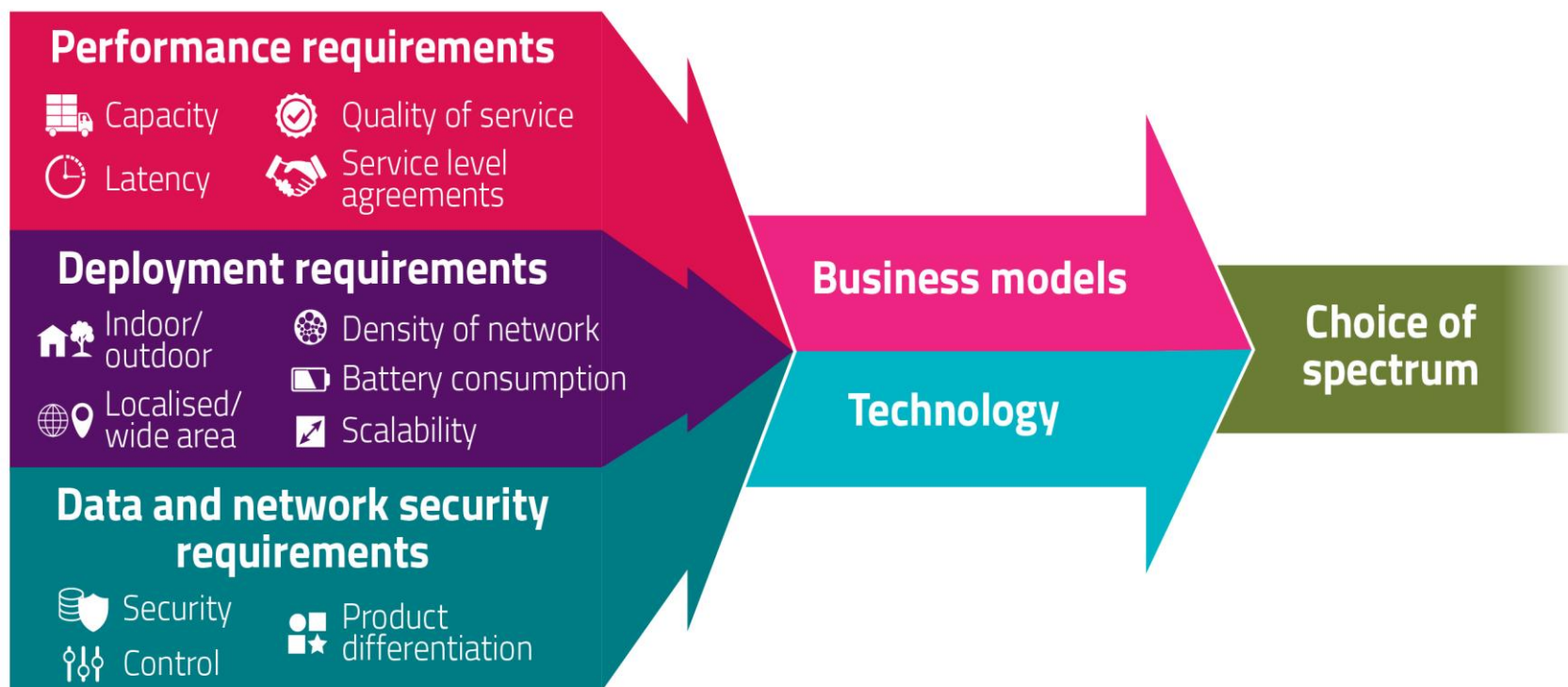
28 Giugno 2022



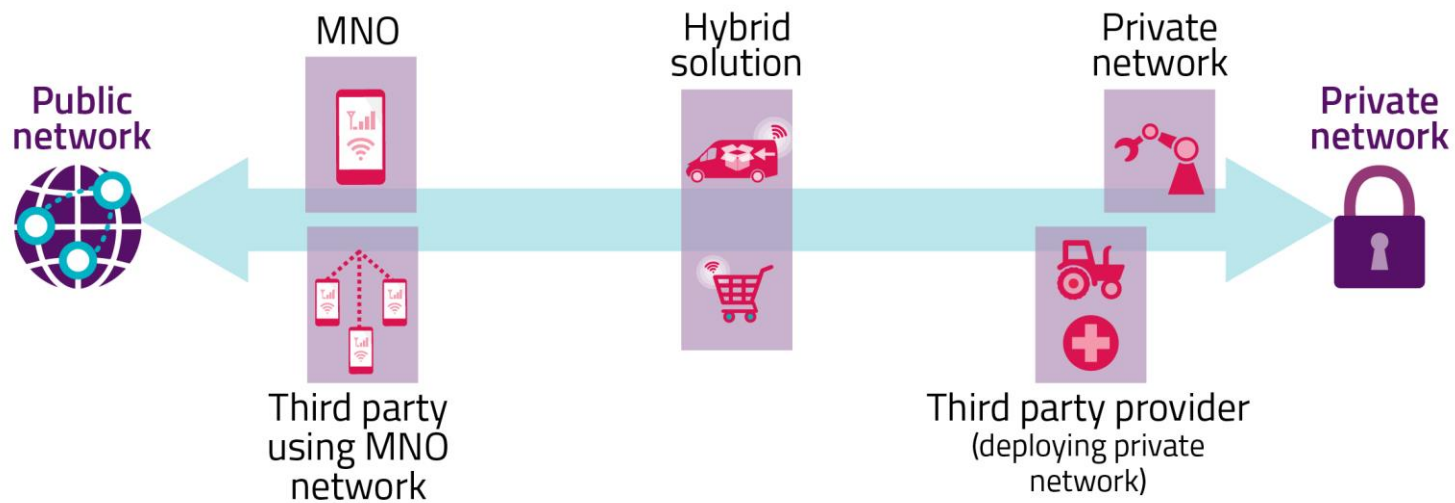
Il ruolo del wireless nella trasformazione digitale



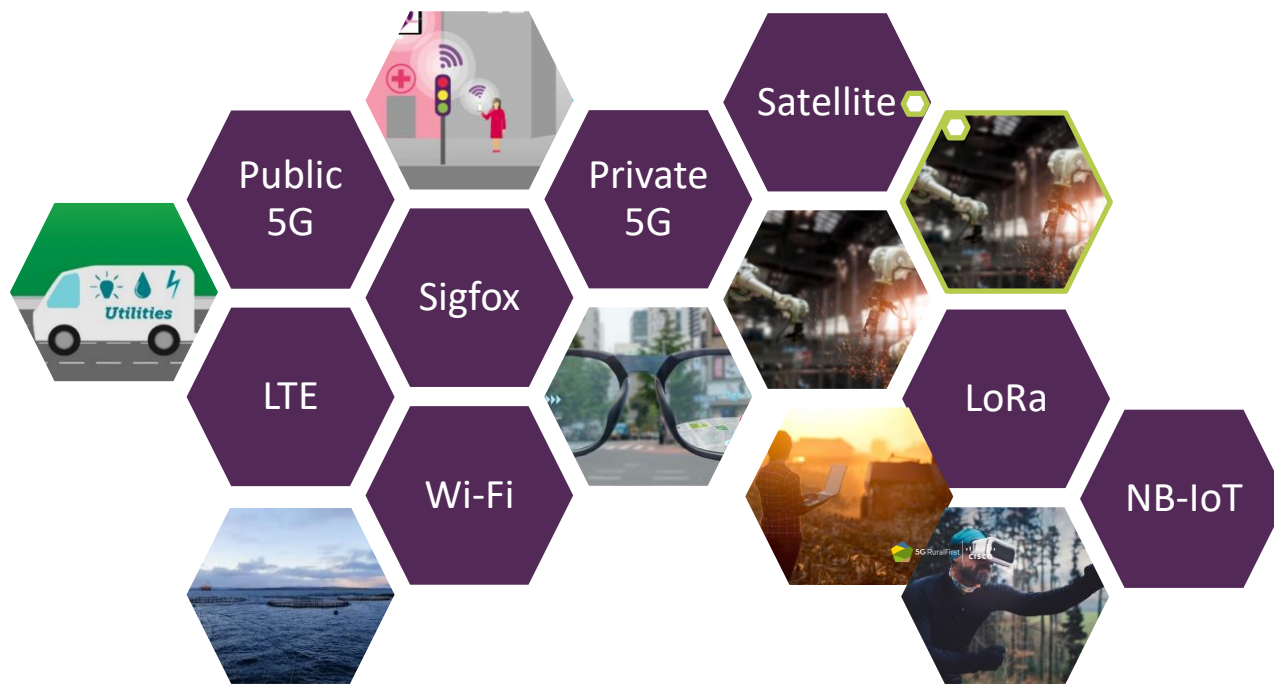
Partiamo dai requirements...



...E continuiamo con i diversi business models disponibili



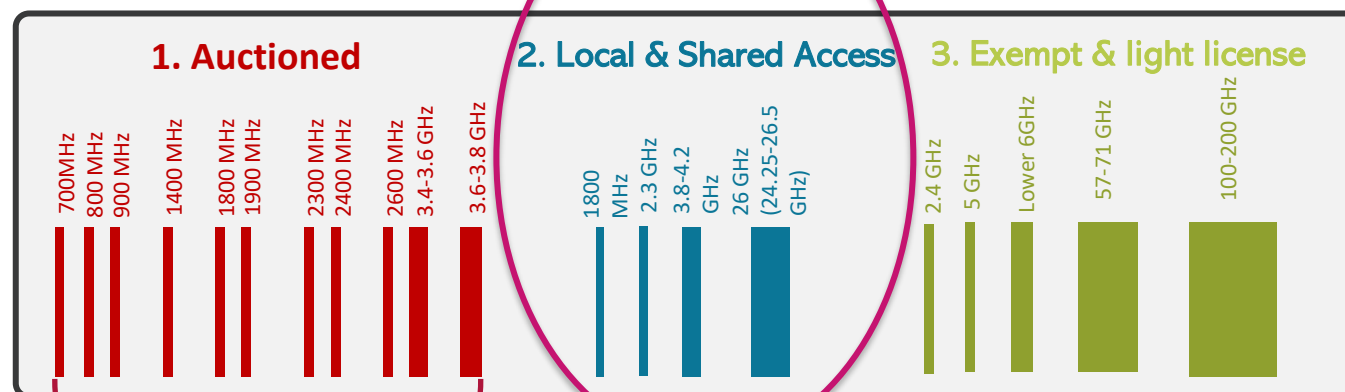
... e le diverse tecnologie



Il ruolo di Ofcom nel rimuovere le barriere di ingresso a nuovi operatori e business models

1. Auctioned: Spectrum mostly authorised on a nationwide basis. Standalone 5G may allow MNOs to offer slices of their network to meet business requirements.

3. Exempt & light licence: Access to spectrum with low barriers is an important enabler of innovation. Wi-Fi technology is currently common across many businesses.



UK MNOs currently hold around 30% of all UK Spectrum below 3.8GHz

2. Local & Shared Access: Low cost licences enabling localised access to spectrum. Can be used to extend coverage, and also for private networks, for example to support industry requirements.

L'interesse nelle soluzioni private e' supportato dai numeri di licenze

- As of May we have on issue over 1,500 Shared Access held by over 50 different companies.

	Low Power	Medium Power	Total
1800 MHz	880	119	999
2.3 GHz	33	-	33
3.8-4.2 GHz	175	328	503
26 GHz	1	-	1
Total	1089	447	1536

Alcuni esempi



URBAN TESTBED <i>West Midlands 5G</i>	RURAL PROJECTS	INDUSTRIAL, MANUFACTURING & CONSTRUCTION	HEALTH & SOCIAL CARE	CREATIVE, MEDIA & SPORT	MOBILITY, PORTS & LOGISTICS	DCIA
14 INNOVATION CENTRES	A 5G RURALFIRST (COMPLETED)	D WORCESTERSHIRE 5G (COMPLETED)	C LIVERPOOL 5G TESTBED (COMPLETED)	E 5G SMART TOURISM (COMPLETED)	F AUTOAIR (COMPLETED)	44 ASSET LOCATOR
14 INFRASTRUCTURE ACCELERATION	B SGRIT (COMPLETED)	1 5G-AMC ²	7 5G LIVERPOOL CREATE	6 LIVE AND WILD	3 5G RAIL NEXT	45 BERKSHIRE DIGITAL INFRASTRUCTURE GROUP
14 TRANSPORT	2 5G NEW THINKING	4 5G-CAL	13 WEST MERCIA RURAL 5G	17 5G EDGE-XR	8 SMART JUNCTIONS 5G	46 INFRALINK-EXCHANGE
14 HEALTH & SOCIAL CARE	5 MOBILE ACCESS NORTH YORKSHIRE	9 5G FACTORY OF THE FUTURE		19 GREEN PLANET AR	16 MILTON KEYNES 5G	47 NTCA FUTURE CONNECTIVITY PARTNERSHIP
14 MANUFACTURING	10 5G CONNECTED FOREST	18 5GEM UK		20 PROJECT VISTA	18 5G PORTS	48 THE OUTCOMES ACCELERATOR
	12 5G WALES UNLOCKED	27 5G-ENCODE		22 5G FESTIVAL	26 5G LOGISTICS	49 WESSEX DIGITAL INFRASTRUCTURE ACCELERATOR
	24 5G RURALDORSET			23 CONNECTED COWS		50 WMCA
	25 MONEH			28 EDEN UNIVERSE		51 THE WEST OF ENGLAND COMBINED AUTHORITY'S DIGITAL CONNECTIVITY INFRASTRUCTURE ACCELERATOR

Centrica's plant in County Durham will be the first in the UK to benefit from a secure 5G-ready mobile private network, a move set to kick-start a 5G revolution in the energy and utilities sector.

- ✓ First **5G-ready Mobile Private Network (MPN)** in the energy and utilities sector in the UK
- ✓ Secure, dedicated network **delivers high-speed and low latency** to transform the plant into a fully connected digital ecosystem
- ✓ Centrica can assess risk and urgency of repairs in **real time**, resulting in significant efficiencies and cost savings

Leonardo and 02 team up to demonstrate the advantages of 5G private networks to the defence and security industry

Edinburgh 08 February 2021 13:39

- The two companies will show how 5G private network technology can improve industrial connectivity, flexibility, productivity, and security in manufacturing and service provision
- Potential applications of the secure 5G technology include facilitating next-generation 'future factory' manufacturing capabilities, which will be needed to deliver high-pace programmes such as Tempest, which is seeing the UK, Italy and Sweden collaborating to develop future combat air capabilities
- The partnership is the first initiative to be announced by Leonardo's newly established Innovation and Technology Incubator Centre which has opened in Scotland

Ford and Vodafone Harness Private 5G Networks to Continually Optimise Vehicle Manufacturing

04.01.2021 | **Networks & Platforms** | Building the future

Verizon signs its first European Private 5G deal with Associated British Ports

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Private 5G technology builds the foundation for future deployment of Internet of Things (IoT) and Machine Learning applications for more effective operations