

▲ THESE WERE THE TECHNOLOGIES THAT PROJECTS SAID WERE THEIR HIGHEST PRIORITY, AND SHOW HOW MANY PROJECTS GAVE THE CATEGORY A MAXIMUM SCORE OF EITHER 9 OR 10 POINTS.

More projects are exploring applications outside, but some are doing both inside and outside





5 G SPECIFICATION



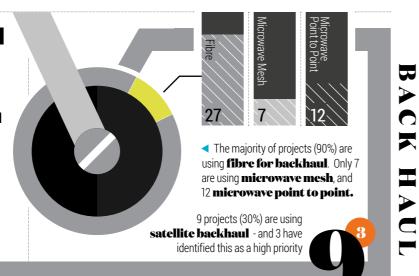
■ 83% of all the projects focus on **enhanced mobile broadband [eMBB]**, 70% on **low latency [uRLLC]** and 57% on **mMTC**. Surprisingly 14 projects are focusing on the **location services**

location services enabled through Rel.16.

17 projects (57%) identify

eMBB as their highest priority

PROJECTS



SPECTRUM LICENCES

▼ Only half of the projects are utilising licensed mobile spectrum. A highe proportion are using a shared access licence (19 projects) and 16 a local licence. 20 projects are making use of a test & development licence issued by Ofcom. Of course some projects are using a variety of licences.

Justing a variety of licences.

T&D
Licence
Licence
Sharred
Mobile
Spectrum

19
16
20

While 8 projects are exploring **dynamic** access spectrum, only 1 project is

prioritising TV

PROJECTS

prioritising this [5G New Thinking]. 3 projects have identified mmWave spectrum as a high priority. None of the projects are prioritising TV white space.



■ 60% of the projects are using mobile network operator core networks. A higher proportion (80%) are using a private network core, and for 18 projects this is the highest priority.

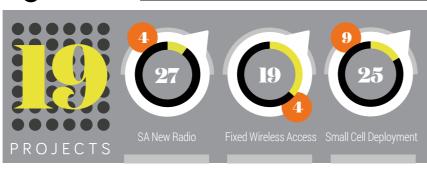
3 projects have identified **OSS/BSS** as a high priority.

■ While 23 projects are exploring metwork slicing, this is only a high priority for 4 projects. 12 projects are exploring local roaming, and this is a strong focus for 4.

23

PROJECTS

ADIO ACCESS NETWORK



▲ state that they are investigating **Open RAN** or **Multi- Operator RAN** and for 6 of the projects this is the highest priority.

▲ 90% of the projects are deploying standalone 5G new radio.

▲ 63% of the projects
(19) are investigating
fixed wireless
access - for 4 of the
projects this is the
highest priority.

▲ More projects are deploying small cells (83%) than are utilising macro cells (60%) - some projects are, of course, utilising both.

ENGINEERING FOCUS



There are a wide range of applications. 93% of the projects are focusing on **5G security**, and for 9 this is the highest development priority.

PROJECTS

80%

priority for 12 projects, not all of them, of course,

IMMERSIVE

TECHNOLOGIES

in the entertainment and media segments.



TELECOM INNOVATION

◆ 17 projects state
that they are exploring
artificial
intelligence and for
5 this is a high priority.

T°O

INTERNET OF THINGS



are deploying

IoT or sensor

arrays, and for

◀ In all, 24 projects

14 this is a high priority focus. More than half of the projects are investigating cellular IoT deployments

(NB-IoT or LTE-M) - for two projects this is a high priority. 3 projects are deploying LoRA sensors and 1 project is looking at Sigfox



21 projects have an **IoT platform** in their core - and for 8 projects this is a high priority.



■ 18 projects are looking at **asset tracking**, and for 7 this is a high priority.



◀ As one would expect, all projects

projects cover **neutral host**

applications (and for 6 of the

projects, this is their highest priority).

are focusing on telecom innovation. 20

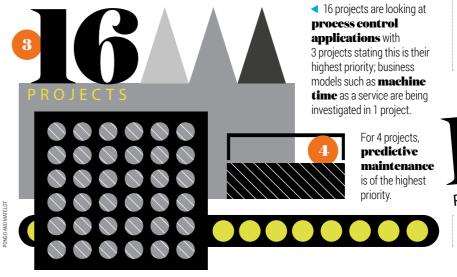
v 80% of the projects are looking at AR/VR applicationsand this is the highest



10 projects state

INDUSTRIAL APPLICATION

PROJECTS



they are exploring

vehicle

automation,
and in addition, realtime remote control
and teleoperation
applications are
being investigated
in specific projects.

PROJECTS

AUTOMATION