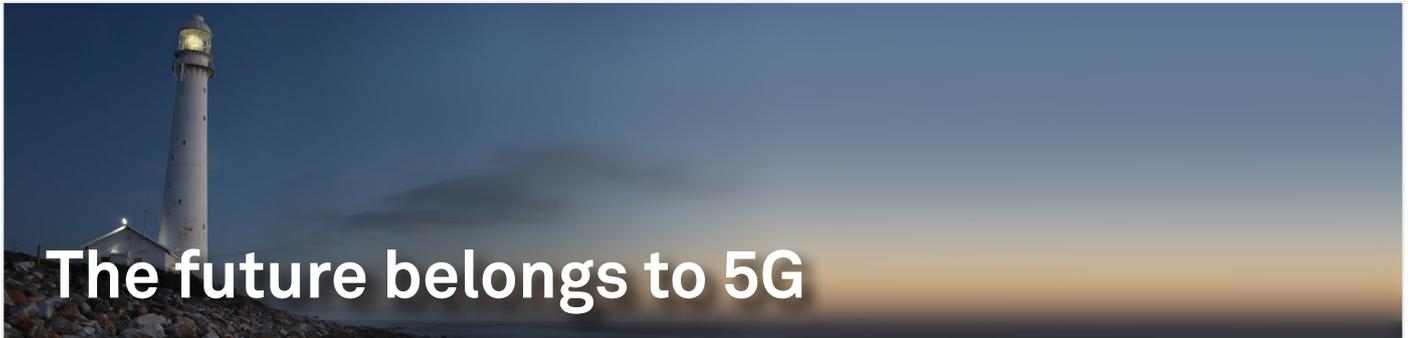




20 YEARS  
OF CONNECTING  
EUROPE

## INSIGHTS



**We stand at the beginning of a new era. A new age of lightning-fast mobile communications where everyone and everything is connected. Where smarter devices and intelligent analysis of massive data flows will light up the cloud, powering change and a new wealth of opportunities.**

5G has arrived – the fifth generation of mobile communications technology, after 4G, 3G and 2G before it – and it is already changing the way we think. It is different from its predecessors. 5G represents an explosion in data capacity and computing possibility thanks to its scope to bring about ubiquitous connectivity across the globe.

By the end of 2020, with 5G rollout now well underway, it is estimated that 6.5 billion people will be using mobile networks for data communications, while 100 billion ‘things’ – such as vehicles, industrial machines, meters, medical devices and home appliances – will be connected to the network over 5G.

### **Huawei recognised as a leader in 5G**

The European Commission – in its March 2019 report by its internal think tank, the European Political Strategy Centre

– recognises Huawei as the standard-setter in 5G and the top 5G equipment vendor in the world.

This market leadership has not come about by chance. Huawei has spent a decade on research into 5G, spending over €500 million in the past four years alone to ensure we are indeed the No.1 5G standard setter. We recognised the potential early, adopting Professor Erdal Arıkan’s monumental work on polar codes back in 2008 and promoting it as the basis for 5G commercial applications worldwide.

Huawei is now a member of over 360 standards bodies, industry alliances and open source communities in the world, including Europe’s 5G Infrastructure Public Private Partnership (5G-PPP), the International Telecommunication Union’s IMT2020 5G initiative, Japan’s 5G Mobile Forum (5GMF), the Next Generation Mobile Networks (NGMN) alliance of global operators and the 3<sup>rd</sup> Generation Partnership Project (3GPP).

In Europe, we have taken part in over 25 of the EC’s Horizon 2020 research projects, many of them dedicated to advancing 5G, and we are a member of the 5G Infrastructure Association board, the private side of the 5G-PPP. We have been trying out 5G in Europe since 2015, in cutting-edge testbeds such as the 5G Vertical Industry Accelerator in Munich and the 5G Innovation Centre at the University of Surrey in the UK.

Our innovations, research projects and trials have clearly demonstrated that 5G will impact heavily on the way business is done in vertical markets like intelligent traffic systems, smart power grids and health care services. 5G will be the basis for urban applications such as smart cities, self-driving vehicles and zero-wait Ultra-HD video streaming in dense areas. Sectors such as logistics, environment and agriculture will also benefit hugely from the introduction of 5G from 2020 onwards.

### **Huawei’s end-to-end products and solutions**

The first 5G services using enhanced Mobile Broadband (eMBB) were demonstrated at the 2019 Mobile World Congress in Barcelona. Over live networks in Barcelona city centre, Vodafone used Huawei’s 5G end-to-end (E2E) products and solutions to provide live coverage over 80 MHz C-Band spectrum, with downlink rates of up to 1.7 Gbps. Leading operators are moving quickly toward 5G commercial deployment, because first movers will benefit first. On the network side, Huawei’s innovative, simplified antenna solutions keep rental costs low for carriers, allowing them to commercially deploy 5G fast. Huawei is also a main provider of other vital equipment for 5G networks such as switches, routers, small cells and network slicing gear.

**5G is now ON. Huawei’s leading 5G end-to-end capabilities, and innovative products and solutions, are attracting customers worldwide. Through heavy investment and continuous innovation, we are committed to helping carriers deploy 5G networks easily, rapidly and cost-effectively. And we are ready to work with all stakeholders to drive the robust development of the 5G industry.**

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