

DELIVERING WI-FI IN 6 GHZ IN EUROPE

WI-FI PROVIDES CRITICAL CONNECTIVITY

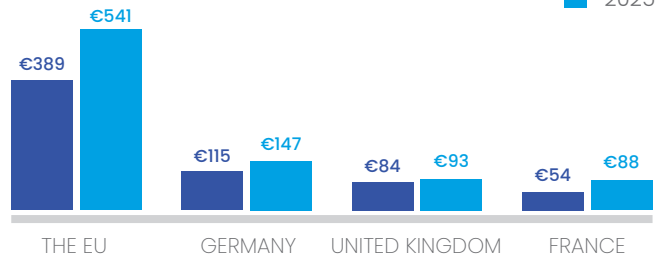
Wi-Fi plays a central role in connectivity in Europe, accounting for about 90% of total IP traffic and generating enormous economic value.



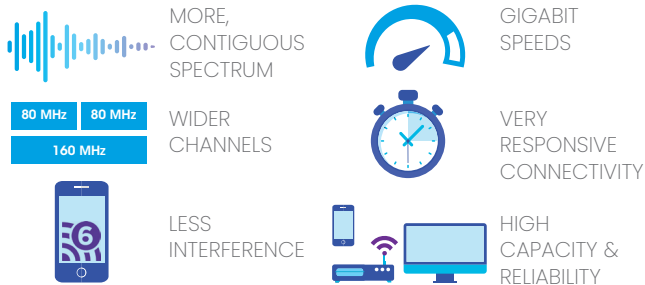
ADDED ECONOMIC VALUE (BILLIONS)

(Source: Telecom Advisory Services)

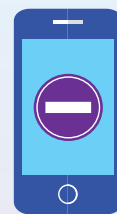
■ 2021
■ 2025



A NEW GENERATION – WI-FI 6E – OFFERS A STEP CHANGE IN PERFORMANCE



BUT WI-FI NETWORKS ARE GROWING INCREASINGLY CONGESTED



Studies point to major spectrum shortfalls for licence-exempt technologies, impacting quality of service. In a report published in June 2021, ASSIA concluded that “the 5 GHz band is now saturating, and more Wi-Fi spectra is needed.”

Source: <http://dynamicspectrumalliance.org/wp-content/uploads/2021/06/ASSIA-DSA-Summit-Presentation-v7.8.pdf>

WI-FI 6E DEVICES AVAILABLE NOW

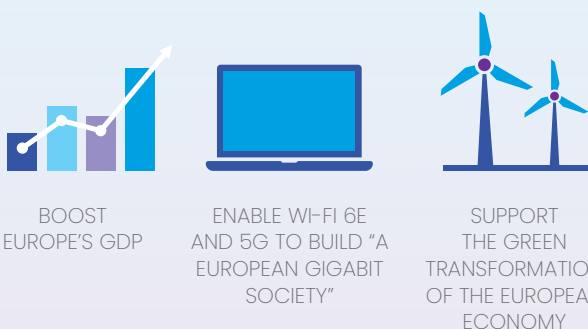
Almost 800 Wi-Fi 6E consumer and enterprise products are now on the market. All this equipment is designed to work across the entire 6 GHz band.

The Wi-Fi Alliance projects more than 350 million Wi-Fi 6E devices will be shipped in 2022.



Source: Intel. Disclaimer: This data is compiled from vendor websites, press releases, and third-party device reviews. Intel provides this assessment for informational purposes only, does not guarantee its accuracy, and it is subject to change without notice.

OPENING UP THE FULL 6 GHZ BAND (5925-7125 MHZ) NOW FOR LICENCE-EXEMPT USE WILL:



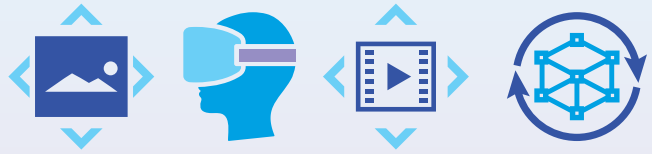
IF EUROPE ACTS NOW, IT CAN TAP GLOBAL ECONOMIES OF SCALE

The US, Brazil, Canada, South Korea, Saudi Arabia and other countries have announced that the entire 6 GHz band (5925-7125 MHz) will be available for use by Wi-Fi. Australia, Japan, Jordan, Mexico and Qatar are moving in the same direction.

As European governments implement the EC Decision on licence-exempt access to the lower 6 GHz band the EU and the UK should consider also opening up the upper part of the 6 GHz band to Wi-Fi and other licence-exempt technologies. That would enable Europe's citizens and businesses to benefit from global economies of scale and ensure connectivity in the region keeps pace with North America and East Asia.

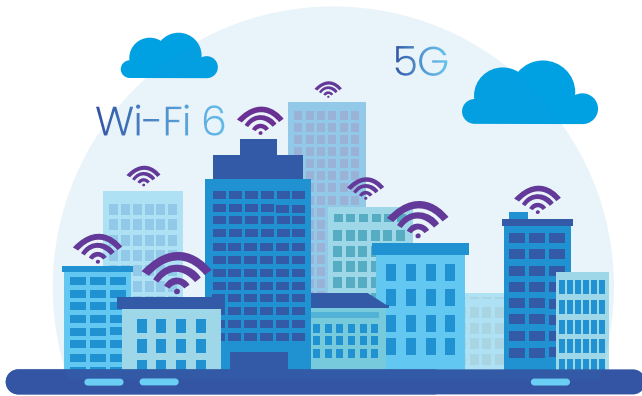
MORE SPECTRUM WILL DRIVE INNOVATION, BENEFITTING CITIZENS AND COMPANIES

With access to the 6 GHz band, Wi-Fi 6E can enable a raft of exciting new applications, such as advanced wearables and in-home devices, and augmented reality (AR) and virtual reality (VR) services, encompassing entertainment, navigation, health, enterprise and industrial applications, product design and training.



ACCELERATING 5G IN EUROPE

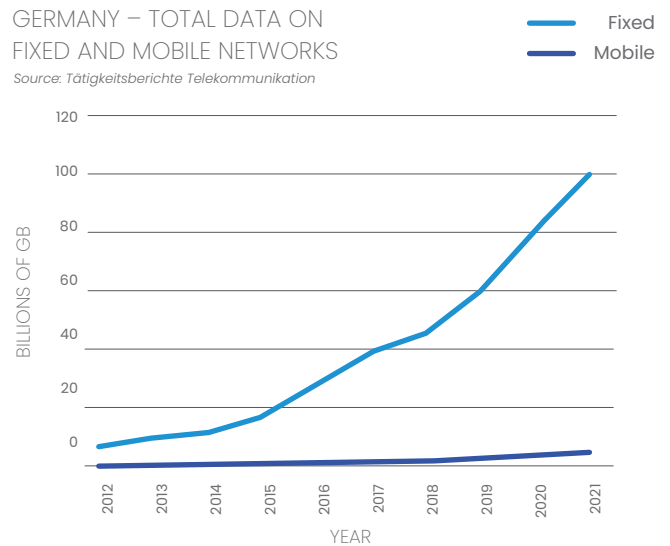
By handling the vast majority of indoor connectivity, Wi-Fi ensures 5G networks have sufficient capacity to provide high-quality connectivity to mobile users.



In Germany, 88% of Internet traffic reaches end-users via Wi-Fi, 7% via Ethernet and 5% via cellular (based on analysis of figures from regulator BNetzA and ASSIA).

GERMANY – TOTAL DATA ON FIXED AND MOBILE NETWORKS

Source: Tätigkeitsberichte Telekommunikation



REALISING THE FULL POTENTIAL OF THE ENTIRE 6 GHZ BAND

WRC-23 should not identify the upper 6 GHz band (6425-7125 MHz) for IMT, as that would prevent countries from maximising the potential of this important spectrum.

If IMT networks were deployed in the upper 6 GHz band, they would be very likely to interfere with fixed and fixed satellite links in that band due to their high power usage.



A VALUABLE RESOURCE

Licence-exempt spectrum, which can be harnessed by any wireless technology, is a great resource that both large and small innovative companies can use to develop compelling new services. Extensive technical studies have shown that, with appropriate technical and operational rules, Wi-Fi can co-exist with fixed systems and other existing users of 6 GHz spectrum.

