



## Orange launches its 5G network by making quality of service its priority

Orange announces the launch of its 5G network in 15 French<sup>1</sup> municipalities, as of 3 December, 2020, including Nice, Marseille, Le Mans, Angers and Clermont Ferrand. By the end of the year, more than 160 municipalities will be covered with 5G.

This 3.5GHz 5G launch brings speeds up to three to four times faster than 4G to meet changing customer needs. Only 3.5GHz frequencies allow a true 5G experience.

Orange is thus fulfilling its role of a leading operator by providing the best possible support for the evolution of French consumption patterns, allowing them to benefit from the best possible network quality, even in the densest areas. By contributing to the digitisation of French companies, 5G will also be a powerful lever for competitiveness, thanks to, among other things, connected objects and artificial intelligence. 5G, deployed in 3.5GHz frequency bands, allows for real browsing comfort, reduced latency and almost instantaneous download speeds, even on the move.

Stéphane Richard, Chairman and Chief Executive Officer of the group, declared: *“This new technology is a breakthrough innovation that will allow all of our customers, both individuals and businesses to benefit from unprecedented quality of service and to develop new uses. The deployment will be done gradually and in a constructive dialogue with all local authorities, in parallel with our efforts to expand coverage of the French territory in 4G. As a responsible operator, Orange is committed to offering the best to its customers to meet their growing connectivity needs, thanks to more efficient technology that is more energy efficient.”*

### A gradual deployment of the 5G network

On 1 October, during the auction, Orange obtained the largest share of the frequency blocks involved, with 90 MHz of spectrum. This deployment focuses mainly on these new 3.5GHz frequencies and may be supplemented by the use of 2.1GHz<sup>2</sup> frequencies.

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<sup>1</sup>A covered municipality is a municipality whose outdoor population coverage rate is greater than or equal to 80%.

<sup>2</sup>Theoretical maximum reception speeds up to 2.1Gbit/s in areas covered by the 2100Mhz band used for 4G. 5G accessible with compatible offer and device

The operator has chosen to initially cover areas that are already heavily used in order to avoid any risk of saturation. In fact, between September 2019 and September 2020, data usage on Orange and Sosh tariff plans increased by 40%, carrying a risk of saturation of the current networks by 2022. This is why the use of these new 5G frequencies, according to Orange is the best answer for the future.

In addition, Orange enables its customers to benefit from the best mobile network, according to ARCEP<sup>1</sup> in 2019.

Orange is continuing its efforts in parallel in the deployment of 4G, with an objective of switching 100% of Orange sites to 4G by the end of 2020.

### **5G, an asset of the energy transition**

5G is the first mobile standard that integrates the optimisation of energy consumption into its design. A key element of this increased efficiency is that the antennas activate only on-demand, that is to say, they only transmit in the direction of the devices, only when they are needed. By reducing the transmission of signals to the essential, the 5G network is more energy efficient than 4G: it can absorb much more data traffic while controlling the energy consumption<sup>2</sup>.

5G is also becoming an asset for energy transition by promoting the advent of IoT<sup>3</sup>: it paves the way for smarter management and optimisation of resources in the home, in cities, in industry and even in agricultural management.

The 5G standard natively incorporated higher security requirements than previous generations, in particular on the encryption of radio communications between the antenna and the core networks.

### **5G offers**

As a reminder, the operator launched its four 5G packages on 8 October, 2020<sup>4</sup>:

- The 70 GB offer at €29.99<sup>5</sup>/month for new mobile customers with an Open Pack or 4G Home or €39.99/month without an Open Pack - 12-month commitment.

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<sup>1</sup>Orange has offered the best mobile network for nine consecutive years according to the ARCEP annual survey of October 2019.

<sup>2</sup>5G allows for a potential reduction in consumption per gigabyte of network infrastructure by a factor of two in 2020 and a factor of 10 in 2025 (see 20 in 2030).

<sup>3</sup>Internet of Things: Internet of Things

<sup>4</sup>Up to €15 / month reimbursed for 12 months for new customers, excluding subscriptions on the orange.fr site. Offer valid for the subscription of a package or an eligible offer made between 19 November, 2020 and 5 January 2021 inclusive. Form to be sent by internet before 5 March, 2021 midnight, any request received by mail will not be taken into account.

<sup>5</sup>Offer including a discount, reserved for household members of the Open Pack customer or a 4G Home 200 GB offer (excluding Option), within the limit of four packages. Loss of the discount in the event of a change of offer or termination of the Open Pack or 4G Home offer.

- The 100 GB offer at €39.99<sup>1</sup>/month for new mobile customers with an Open Pack or 4G Home or €49.99/month without an Open Pack - 12 or 24 month commitment with a new mobile
- The 150 GB offer in mainland France at €49.99<sup>1</sup>/month for new mobile customers with an Open Pack or 4G Home or €64.99/month without an Open Pack - 12 or 24 month commitment with a new mobile
- Unlimited Go<sup>2</sup> offer in mainland France at €79.99<sup>1</sup>/month for new mobile customers with an Open Pack or 4G Home or €94.99/month without an Open Pack - 12 or 24 month commitment with new mobile

These offers, in their version with a 24-month commitment, also include the possibility of acquiring a new 5G compatible mobile at the best Orange<sup>3</sup> price. No change of SIM card is expected.

Since 8 October, Orange has also launched:

- For professionals, an “intense special edition” 5G compatible package, with 150 GB for Performance Pro and Open Pro customers – 12 or 24 month commitment with mobile.
- For SMEs/medium-sized companies, the operator has launched a 5G option which brings an additional 20 GB to the three packages of the Performance Enterprise range – “balance” (50 GB); “intense” (100 GB); “intense travel” (200 GB).

In order to take advantage of the best of Orange 5G by equipping itself responsibly, the operator launched its “Re” programme on 8 October, which is part of a circular economy approach by allowing the recycling and the reconditioning of old mobiles (conditions in stores).

Find the list of cities here:

<https://reseaux.orange.fr/cartes-de-couverture/mobile-5G>

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<sup>4</sup>100 GB in Europe, USA, Canada, China

<sup>5</sup>Reserved for Orange general public customers signing up for 24 months on a plan with a new mobile. The price of the device depends on the package chosen and the last date on which a change of mobile was made. This change will be made under the conditions in force on the day of the request. Details in store and on orange.fr

### About Orange

Orange is one of the world's leading telecommunications operators with sales of 42 billion euros in 2019 and 143,000 employees worldwide at 30 September 2020, including 83,000 employees in France. The Group has a total customer base of 257 million customers worldwide at 30 September 2020, including 212 million mobile customers and 21 million fixed broadband customers. The Group is present in 26 countries. Orange is also a leading provider of global IT and telecommunication services to multinational companies, under the brand Orange Business Services. In December 2019, the Group presented its new "Engage 2025" strategic plan, which, guided by social and environmental accountability, aims to reinvent its operator model. While accelerating in growth areas and placing data and AI at the heart of its innovation model, the Group will be an attractive and responsible employer, adapted to emerging professions.

Orange is listed on Euronext Paris (symbol ORA) and on the New York Stock Exchange (symbol ORAN).

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