

Mobile network use around the world to make calls, send messages and surf the Web.

Now what is 5G? 5G is a new faster network has the potential to transform the Internet. 5G is a software defined network, it means the walling went replace cables entirely it could replace the need for them by largely operating on the cloud instead. this means you will have a 100 times better capacity than 4G which will dramatically improve Internet speeds. for example, to downloaded 2-hour film on 3G it takes about 26 hours on 4G 6 minutes and 5G just 3.6 seconds. But it's not just Internet capacity that will be upgraded, response times will also be much faster. 4G network response to all commands in just under 50 milliseconds with 5G it will take around 1 millisecond 400 times faster than a blink of the eye. But for a world is increasingly dependent on the Internet just to function reduction in time delay is critical. self-driving cars for example requires continuous stream of data because that information is delivered to autonomous vehicles better and safer, they can run. 5G will also provide much more personalized Web experience using a technique called network slicing, it's a way of creating separate wireless networks on the cloud allowing users create their own bespoke network. for instance, an online gamer. Being able to personalize the Internet will also benefits businesses. In the UK for example 3G and 4G networks were relatively cheap to set up because they were able to roll out on existing frequencies on the country's radio spectrum. for 5G to work properly however it needs a frequency with much bigger ban with which would require brand new infrastructure.

It may not happen in a night but 5G is coming.