

Evolution of mobile telecommunications

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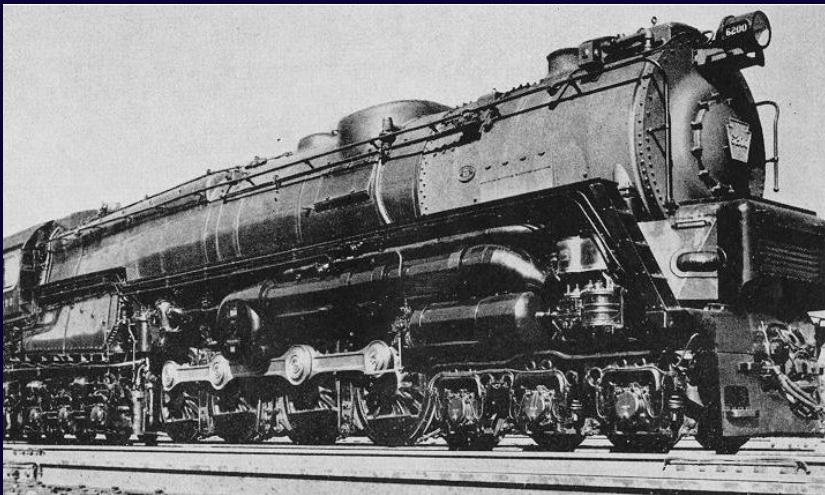
The first means of telecommunication



The telegraph and the telephone were invented as early as 19th century. They enabled instant communication over long distances, but had no use in certain applications like in a car.



The need of mobile communication



The rise of mechanical transportation (cars, trains, airplanes) was the main driving force in developing portable telecommunication.

The birth of mobile telephone

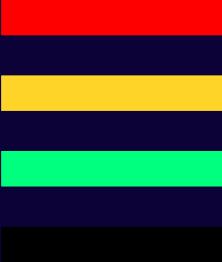


After the World War II, first transistor systems made it possible to create mobile telecommunication devices. However, they still were too big and expensive to use on the go.

The revolutionary change in our communication



The cellular network drastically reduced the power required for radio transmitters, which led to the invention of mobile phone in its current form.

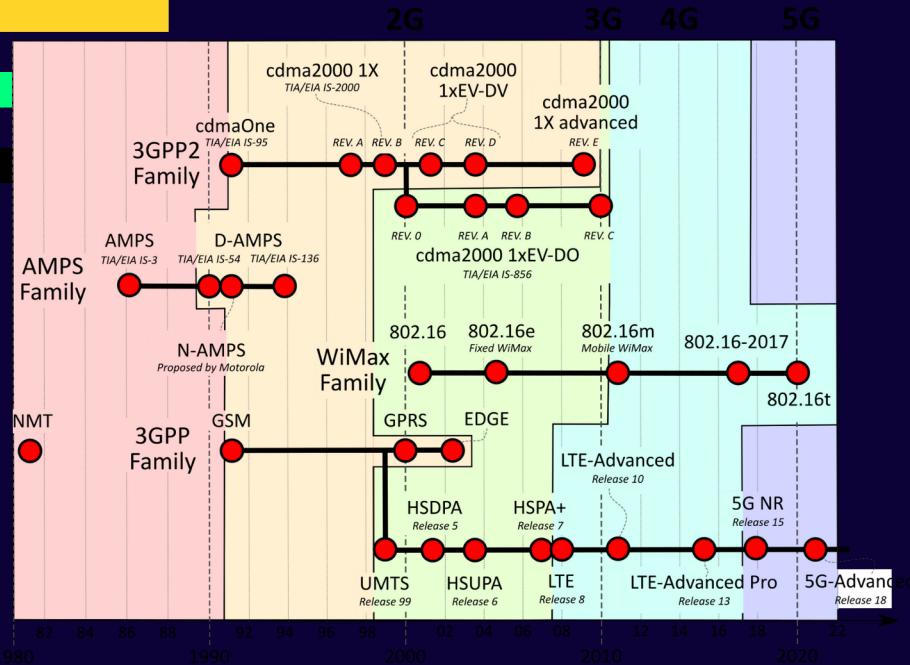


Revolutionizing the mobile phone



Digital transmission technology made it possible to transfer text and images using mobile devices. This gave rise to the smartphone — probably, the most widespread device in modern world.

Further evolution of mobile networks



With every generation of mobile networks, the speeds increased, and the latest 5G technology can provide internet connection as fast as several gigabits per second.

The limitations of wireless telecommunication



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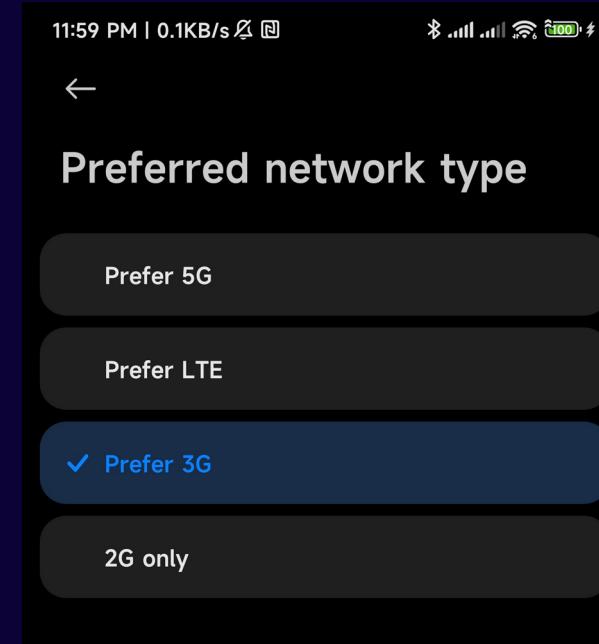


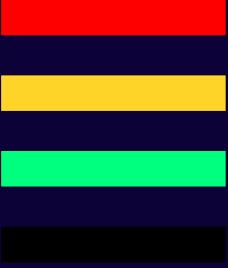
However, mobile networks have very limited capacity and less stable connection compared to fixed connection via Ethernet or optical cable.

Why older technology can be useful to us



Not always more modern network means higher internet speeds. Sometimes 4G connection can be slower than 3G while consuming more energy.





Thanks for watching!