

Future of Wireless Technology 6G & 7G

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Abstract: 6G Internet is a company with a mission to connect people. While we are succeeding at establishing the UK's fastest wireless broadband connection on a national level, we have our roots firmly placed in the north west of England – a region of innovation and collaboration. Many years ago, Blackburn and Darwen formed one of the key areas of the Industrial Revolution and its history continues to positively shape its future. Few locations are as receptive to new ideas, cultures and ways of doing business. Nobody knows this better than The Hive Network. At 6G Internet, we are proud to be a part of the local business community and genuinely believe that our product is essential to casting that net even wider. In this digital age, a fast, secure and scalable internet connection has evolved from being a luxury to an essential. Unfortunately, the traditional, national providers have shunned the community, delaying or cancelling much needed infrastructure overhauls, leaving Blackburn and Darwen with a muted digital presence. 6G's revolutionary radio-style Air Fiber technology uses masts and transceivers on tall buildings and even lamp posts to create a local network capable of delivering phenomenal speeds instead of disappointing averages. With our headquarters and core network anchored faithfully in the north west, 6G's converged network provides locals with a truly all-in-one solution: uploads, downloads, superfast broadband, multiple line telephones, CCTV monitoring, video conferencing – every telecommunications requirement your business needs is catered for with 6G. The whole idea of 6G aligns perfectly with The Hive Network's own goals: to strengthen a local network so it can reach out and continue to grow. Our aim is to empower the community with world class broadband capabilities, establishing a future-proof groundwork for new ideas and opportunities to build on. The Communications Revolution starts here.

Keywords: 1G,2G,3G,4G,5G,6G,7G, TDMA, CDMA, GSM, smart antenna, Hierarchical Cellular Structure.

1. INTRODUCTION

The present cell phones have it all. Today phones have everything ranging from the smallest size, largest phone memory, speed dialing, video player, audio player, and camera and so on. Recently with the development of Pico nets and Bluetooth technology data sharing has become a child's play. The 6th generation (6G) wireless mobile communication networks shall integrate satellites to get global coverage. The global coverage systems have been developed by four courtiers. The global position system (GPS) is developed by USA. The COMPASS system is developed by China. The Galileo system is developed by EU, and the GLONASS system is developed by Russia [3]. These independent systems are difficulty for space roaming. The task of 7th generation (7G) wireless mobile communication networks are going to Unite.

2. 6G TECHNOLOGIES

Cutting edge technology:

6G internets use a combination of the latest in radio and fiber optics technology. We deliver through their via line of sight. Which means we don't have to rely on the copper cable or base our speed on how to far your business is away from the exchange.

How does 6G compare with traditional broadband?

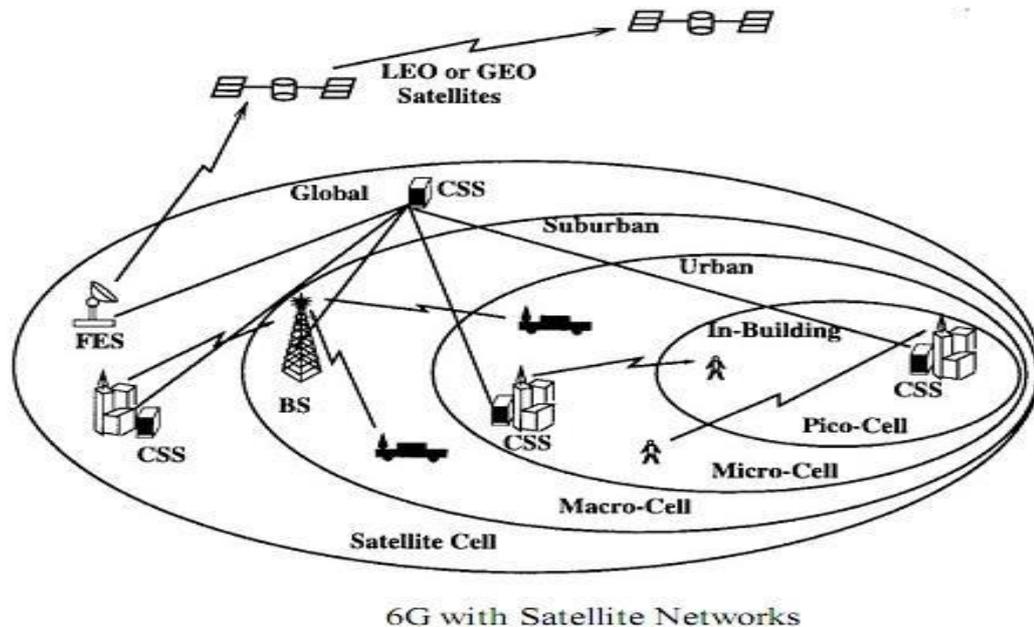
6G has the benefit of the bleeding a brand a new network in compassing the latest state of the art technology .so we do not suffer the any of the legacy essay the other provide do 6G air fiber id deferent future reroof wireless solution id using technology pioneer by the military to communicate with unmanned Arial vehicle for criycal matter during sever conditrhin. Now refuse and available for bushiness 6g offer faster moor secure and cost effective and brood band.

WISDOM – Wireless innovative System for Dynamic Operating Mega communications concept), 6th generation (with very high data rates Quality of Service (Quos) and service applications) and 7th generation (with space roaming). This paper is focused on the specifications of future generations and latest technologies to be used in future wireless mobile communication networks. However keeping in view the general poor masses of India, some of the future generation technologies will be embedded with 2and 2.5G so that general masses may get the advantage of internet, multimedia services and the operators may get proper revenues with little extra expenditure in the existing mobile communication networks

6G Mobile communication system:

The 6G mobile system for the global coverage will integrate 5G wireless mobile system and satellite network. These satellite networks consist of telecommunication satellite network, Earth imaging satellite network and navigation satellite network. The telecommunication satellite is used for voice, data, internet, and video broadcasting; the earth imaging satellite networks is for weather and environmental information collection; and the navigational satellite network is for global positional system (GPS). The four different countries which developed these satellite systems are; the GPS by USA, the COMPASS system developed by China. The Galileo system by EU, and the GLONASS system developed by Russia.

In 6G handoff and roaming will be the big issue because these satellite systems are different networks and 6G has four different standards. So the handoff and roaming must take place between these 4 networks but how it will occur is still a question



3. 7G Mobile communication system

7G mobile network is like the 6G for global coverage but it will also define the satellite functions for mobile communication. In satellite system, the telecommunication satellite will be for voice and multimedia communication; navigational satellite will be for global positional system (GPS) and earth image satellite for some extra information like weather update [14]. The 6G mobile wireless network will support local voice coverage and other services. The 7G will be the most advance generation in mobile communication but there will be some research on demanding issues like the

use of mobile phone during moving condition from one country to another country, because satellite is also moving in constant speed and in specific orbit, the standards and protocols for cellular to satellite system and for satellite to satellite communication system. The dream of 7G can only be true when all standards and protocols are defined. May be this is possible in next generation after 7G and can be named as 7.5G.

Issues of 7Generation:

When 7G will complete all its weak points then there will be no issue of data capacity coverage and hand off left behind. At that time there will be only one demand from user which is the cost of mobile phone call and its services. This issue will again start evolutionally change in standard and technology and will also open new horizons for research. This new revolution in technology for cost of mobile phone call and services will be called as 7.5G or 8G.

4. CONCLUSION

In this paper we have discussed the existing and future wireless mobile communication generations. Edge will contribute to a bright future for 3G and onwards generations, a vision shared by major analyst and industry groups. Satellite network will be used from 6G mobile communication systems and onwards. In 6G the cost of mobile call will be relatively high but in 7G this problem will be improved and the cost of call will be reduced and lower level user will benefit from it. Automobile and the television changed our lives but EDGE will change our lives by providing 3G, 4G, 5G, 6G, 7G services for the masses

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