**ABSTRACT**

Think about accessing Internet today. There are basically three different options:

**Broadband access**

**Wi-Fi access**

**Dial-up access**

 This new technology would provide:

The **high speed** of broadband service

**Wireless** rather than wired access,

Broad **coverage** like the cell phone network instead of the tiny little hotspots of Wi-Fi . This system is actually coming into being right now, and it is called **WiMAX.**

WiMAX is short form for **Worldwide Interoperability for Microwave Access**.

WiMAX, is a fast-emerging wide-area wireless broadband technology, solution for bringing high-speed Internet access into homes and businesses.

Another benefit of WiMAX is the ability to get higher connection speeds farther away from the transmitter.

Right now we can get a really high-speed connection in Wi-Fi close to the transmitter.

The other option is that we can get a pretty slow Internet connection using a cellular technology, which spans a greater distance.

WiMAX fits between those two offerings. We will get speeds similar to close-up Wi-Fi connections out to several miles away from the transmitter.

The real utility of WiMAX technology is that we can run signals very close to each other on wireless channels.

We may have super narrow lanes, so we can put a lot of traffic over them and they don’t disrupt each other.

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