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Wireless technologie

ABOUT ME : SATISH YADAV

- **8+ Years of Teaching Experience**
- **RESEARCHER**
- **Mentored 1,00,000+ Students**
- **Area of Expertise : Discrete Mathematics, DBMS , ICT(ESE) , DL**





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Near field communication, abbreviated NFC, is a form of contactless communication between devices like smartphones or tablets

Two electronic devices over a distance of 4 cm (1½ in) or less

Bluetooth

The current data rate is **1Mbps** with a **2.4G-Hz** bandwidth

Bluetooth devices are low power and have a range of **10m**

NFC is limited to a distance of approximately four centimeters while Bluetooth can reach over thirty feet

Bluetooth requires users to manually set up connections between smartphones and takes several seconds. NFC connects automatically in a fraction of a second, so fast it seems instantaneous.

WiFi

WiFi is a technology that allows electronic devices to connect to a wireless LAN (WLAN) network, mainly using the **2.4 GHz** UHF and **5GHz** SHF ISM radio bands

WiFi is a short name for **wireless Fidelity**. Generally, WiFi refers to any type of **IEEE 802.11**

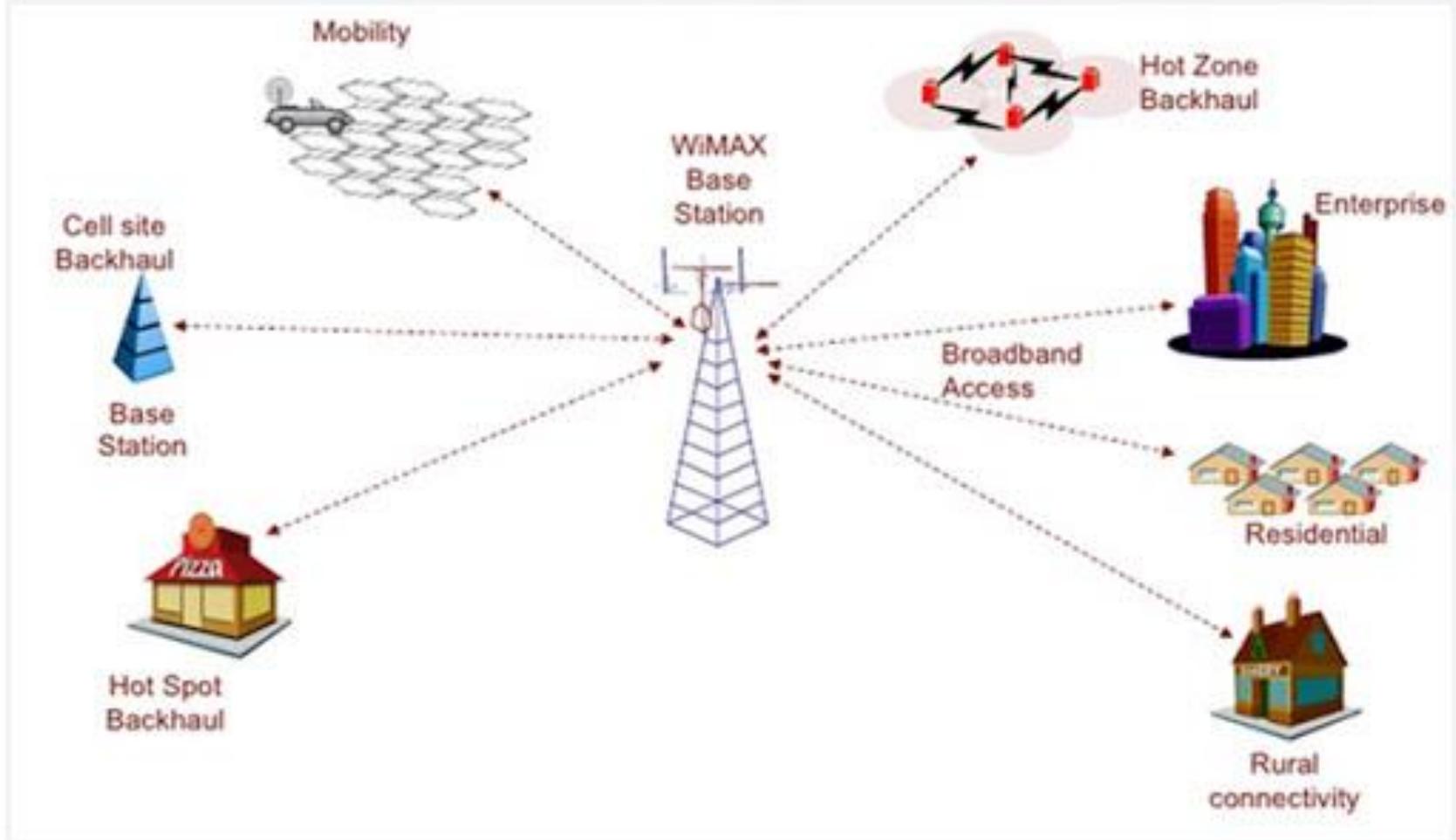
worldwide Interoperability for Microwave Access

WiMAX would operate similar to WiFi, but at higher speeds over greater distance and for a greater number of users.

WiMAX has the ability to provide service even in areas that are difficult for wired infrastructure to reach and the ability to overcome the physical limitations of traditional wired infrastructure.

10-66 GHz

2.4 – 5.8 GHz

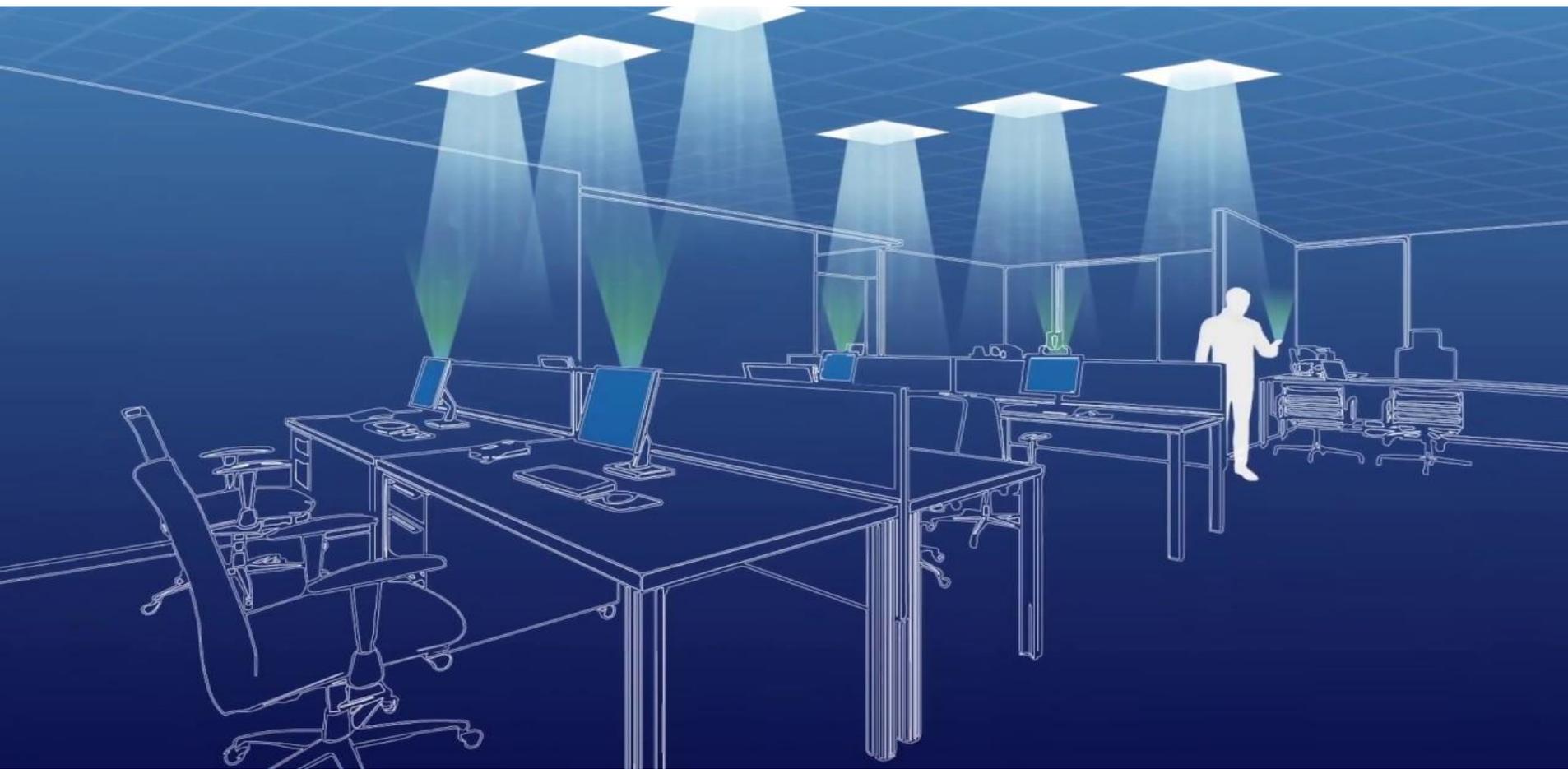


Li-Fi (Light Fidelity)

Light Fidelity (Li-Fi) is a bidirectional, high-speed and fully networked wireless communication technology similar to Wi-Fi. The term was coined by Harald Haas and is a form visible light communication.

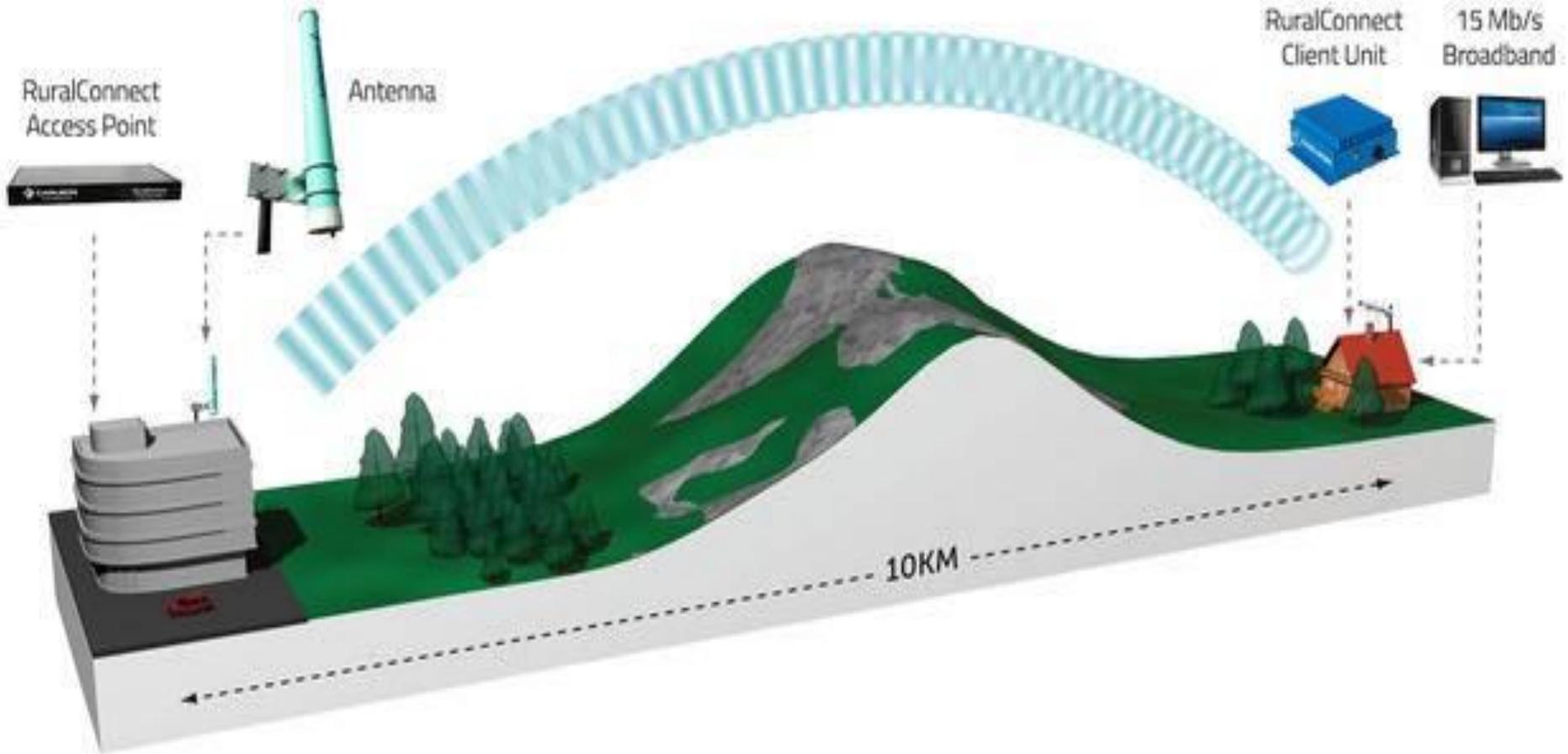
Li-Fi uses common household LED (light emitting diodes) light bulbs to enable data transfer, boasting speeds of up to 224 gigabits per second.

Li-Fi (Light Fidelity)

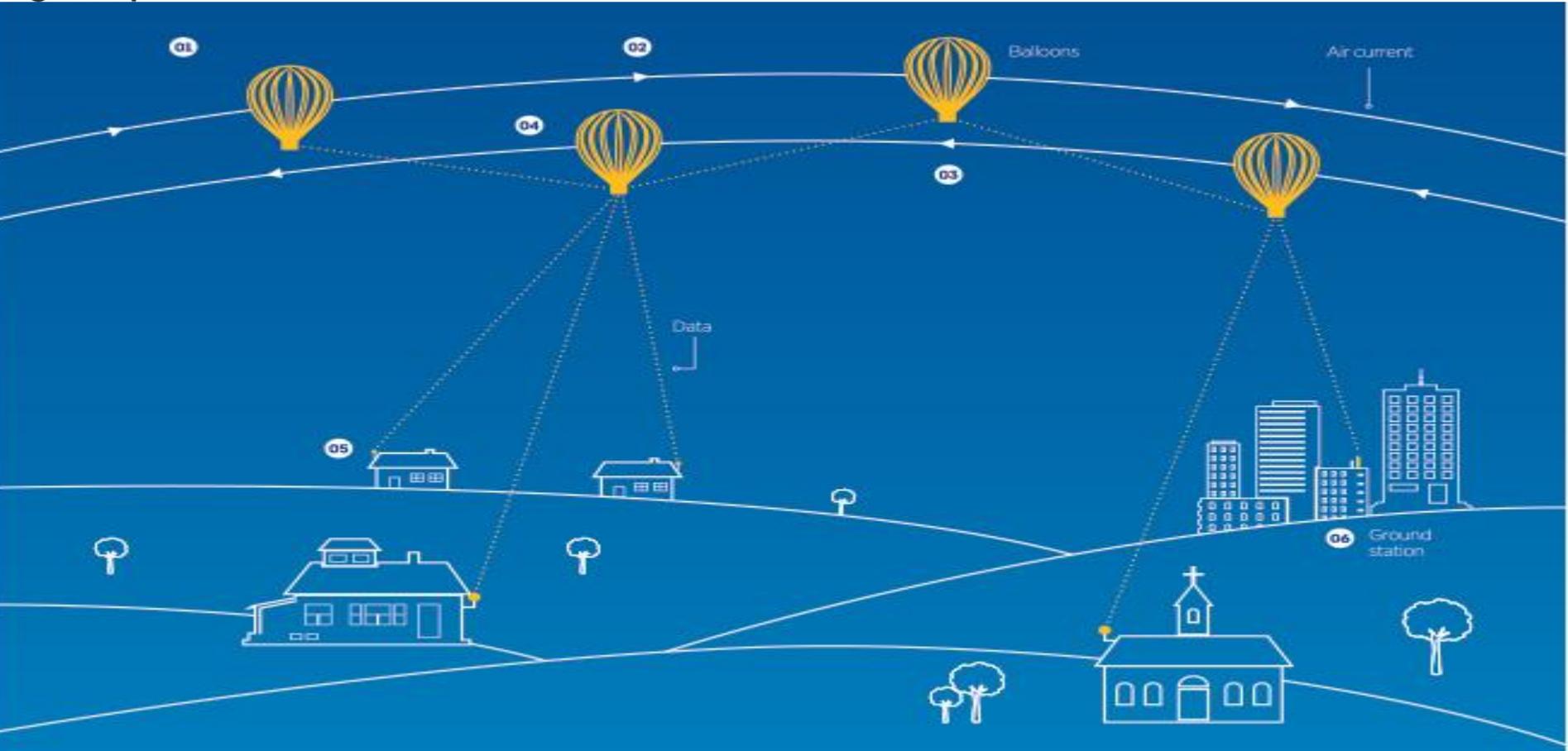


White -fi

White -fi IEEE 802.11af, also referred to as White-Fi is a wireless computer networking standard in the 802.11 family, that allows wireless local area network (WLAN) operation in TV white space spectrum in the VHF and UHF bands between 54 and 790 MHz.



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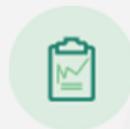
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