

Li-Fi

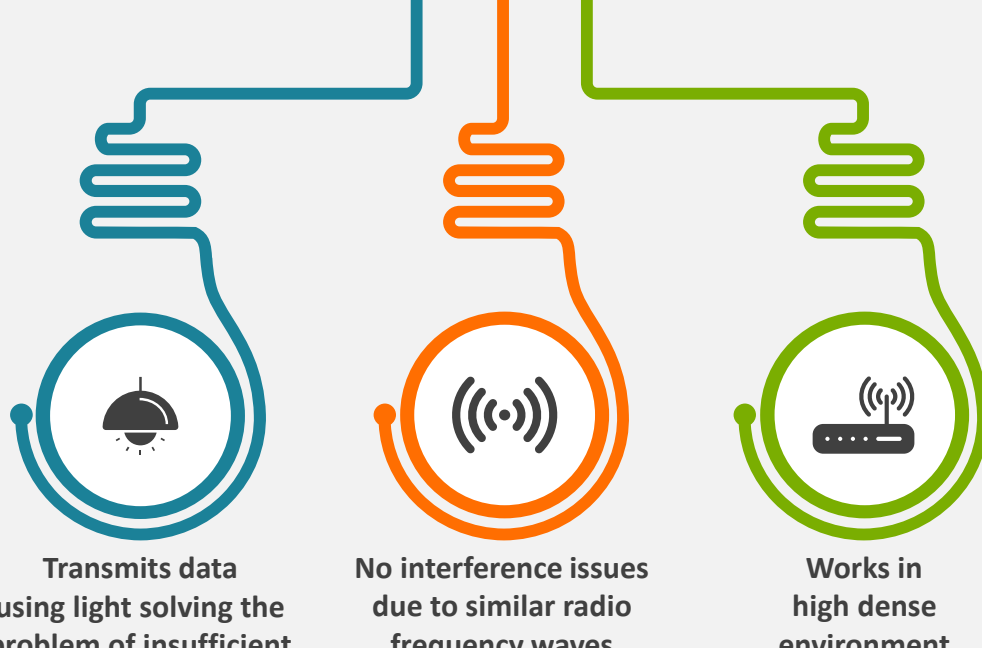


Light Fidelity

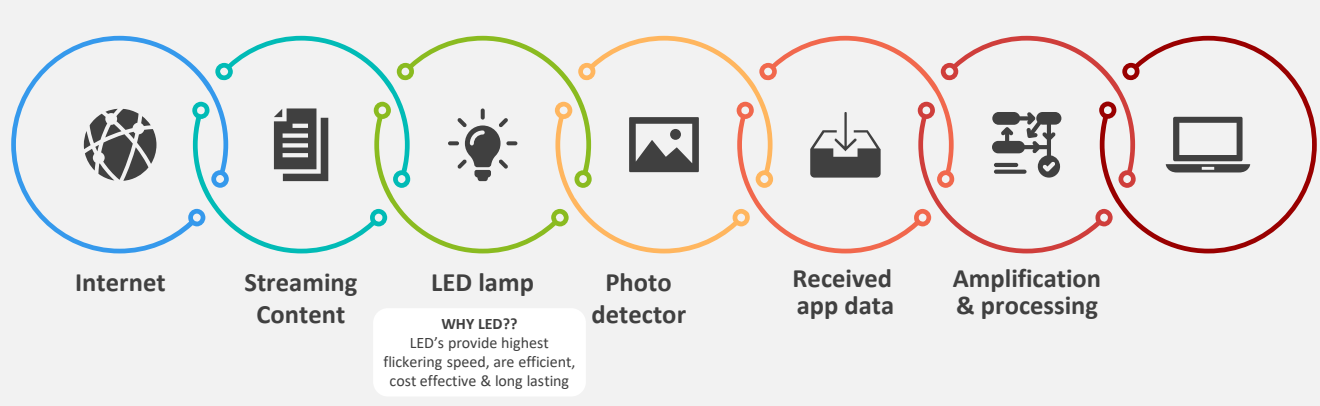
Adoption of Li-Fi is expected to rise due to an increasing demand of higher, safe and secure internet speed at low cost



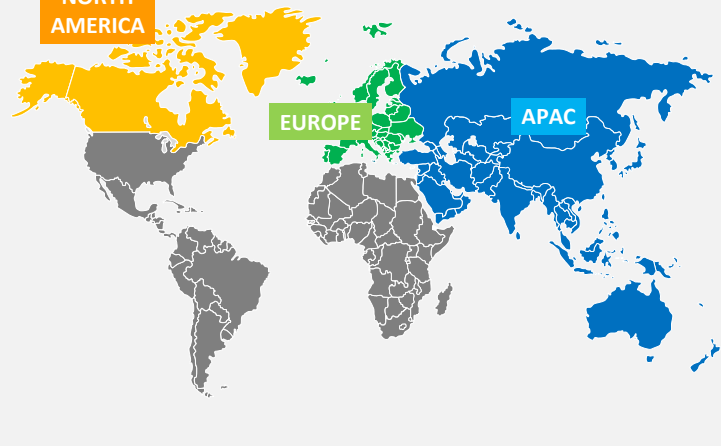
Li-Fi is a Visible Light Communications (VLC) system which allows high speed wireless communications



LI-FI SYSTEM QUICKLY CHANGES ITS FREQUENCY, HENCE NOT VISIBLE TO HUMAN EYE

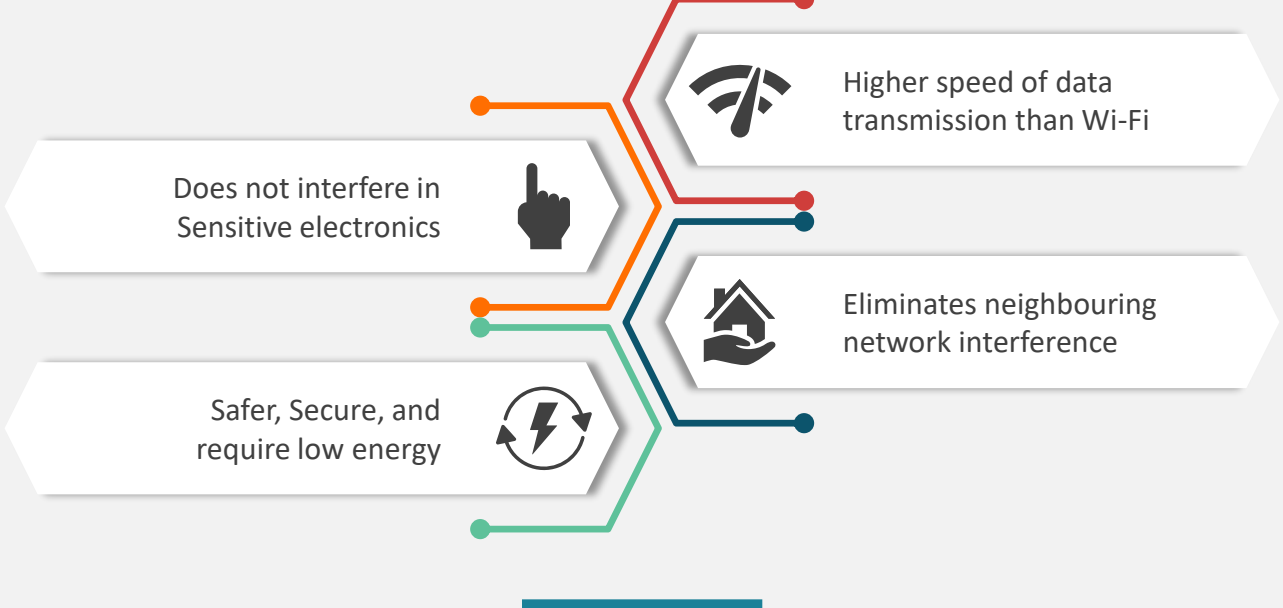


DOMINANT COUNTRIES

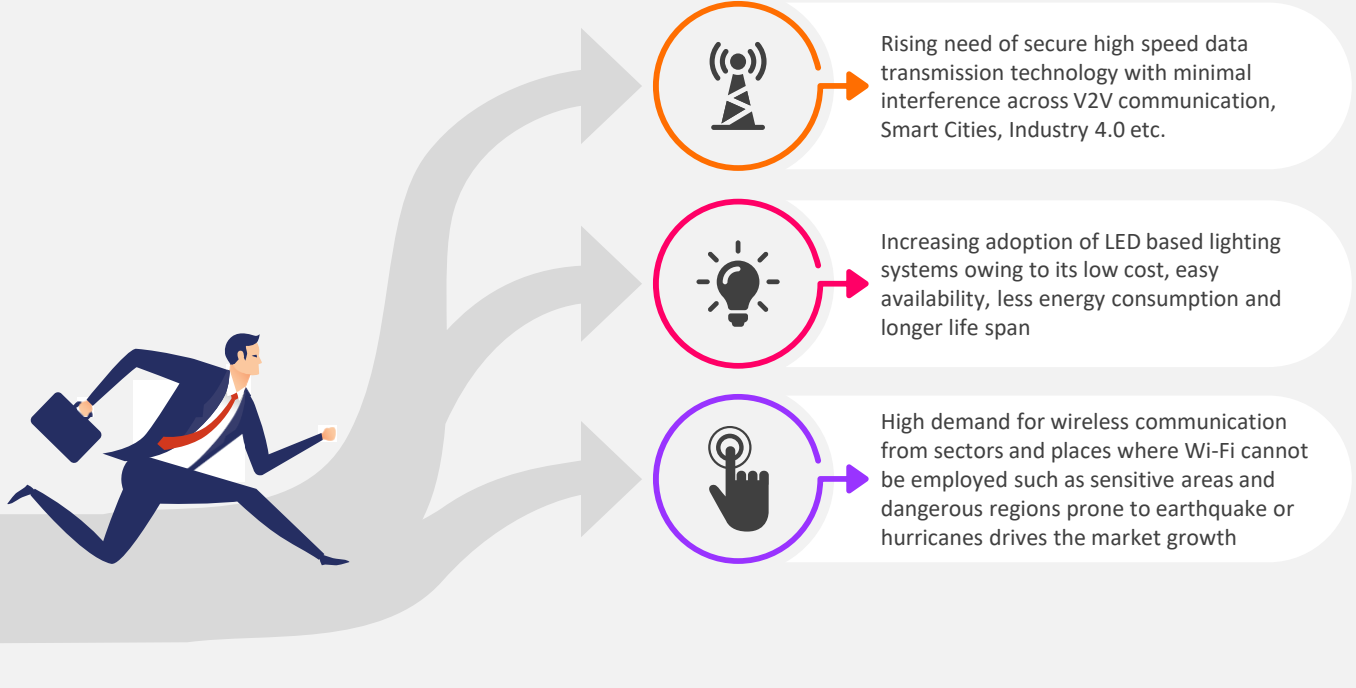


- Rising data traffic and increasing demand for faster and secure data transfer propels North American region to hold the major share of the global Li-Fi market
- APAC is the fastest growing market due to increasing number of internet users, adoption of Li-Fi technology in automobiles, growing demand for bandwidth and increasing need for faster data transmission

KEY BENEFITS

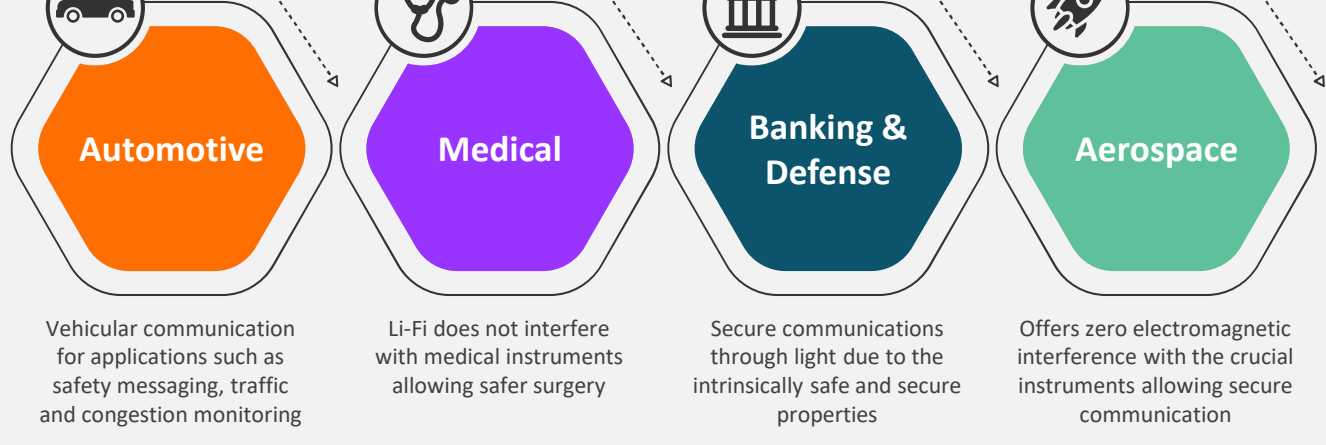


KEY DRIVERS



The technology is being leveraged across industries to address issues where Wi-Fi usage is restricted

KEY APPLICATIONS ACROSS INDUSTRIES



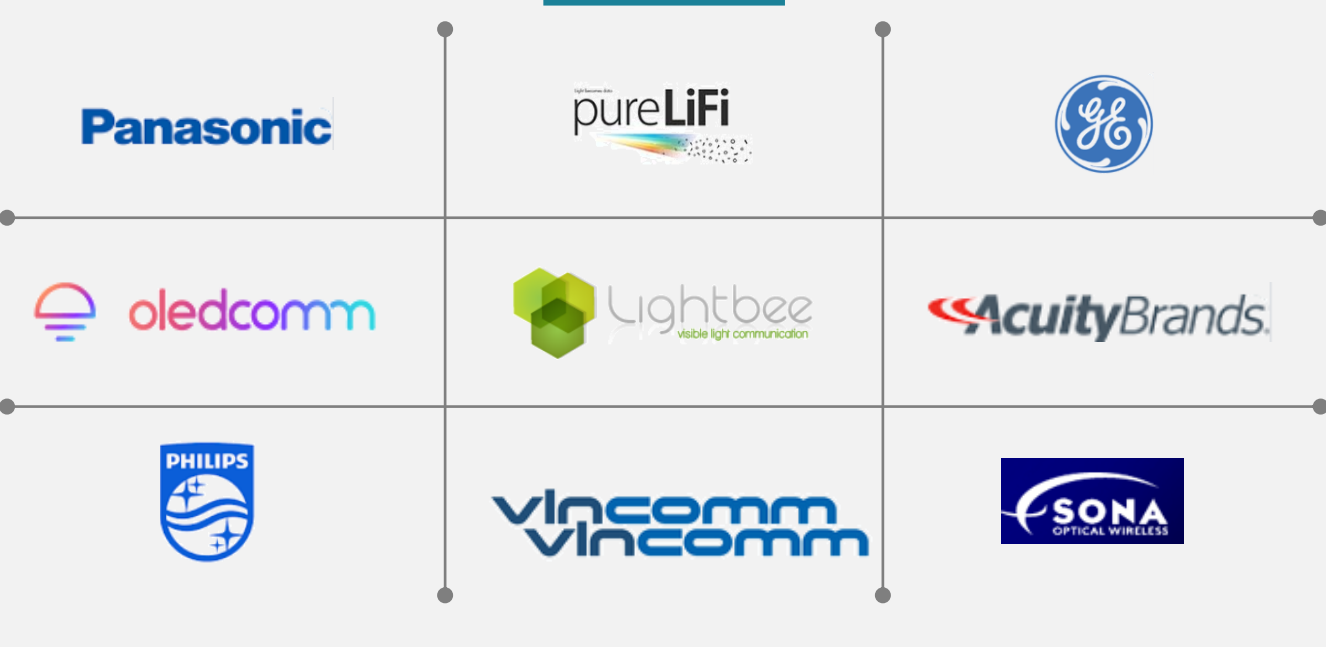
Vehicular communication for applications such as safety messaging, traffic and congestion monitoring

Li-Fi does not interfere with medical instruments allowing safer surgery

Secure communications through light due to the intrinsically safe and secure properties

Offers zero electromagnetic interference with the crucial instruments allowing secure communication

KEY PLAYERS



RECENT DEVELOPMENT

- pureLiFi** Launched the world's first industrialised Li-Fi solution in 2016; the system has been used in several locations including Microsoft's headquarter in Paris
- In 2018, Oledcomm Corporation introduced MyLiFi, an LED lamp offering an ultra-fast, secure and radio wave-free connection.
- vincomm** Unveiled the world's first Li-Fi Lighting Panel at Consumer Electronics Show (CES) 2018

KEY INSIGHTS

- Need of high speed data transmission, data security and several technological superiorities over Wi-Fi technology are the key drivers of the Li-Fi communication market
- The technology is expected to unlock the potential of IoT, drive Industry 4.0 applications and lead to the upcoming of light-as-a-service (LaaS) in the lighting industry
- However Li-Fi receiver chip is not yet embedded in smartphones and tablet due to lack of regulations. The Institute of Electrical and Electronics Engineers (IEEE) standards, related to Li-Fi chips, is expected to be released by 2021, which could provide a major push for the adoption of the technology across various applications