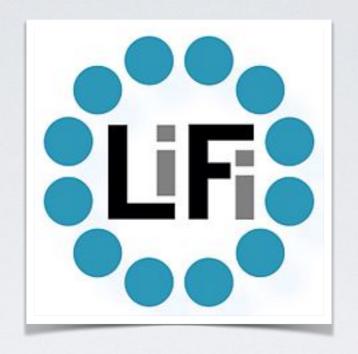
# LiFi - Light Fidelity

Visible Light Communication



Light Fidelity (Li-Fi ) is a bidirectional, high speed and fully networked wireless communication technology similar to Wi-Fi

## Wifi vs Lifi

#### LiFi

Visible light
 communication or
 infra-red and near
 ultraviolet



Radio Frequency
 Waves

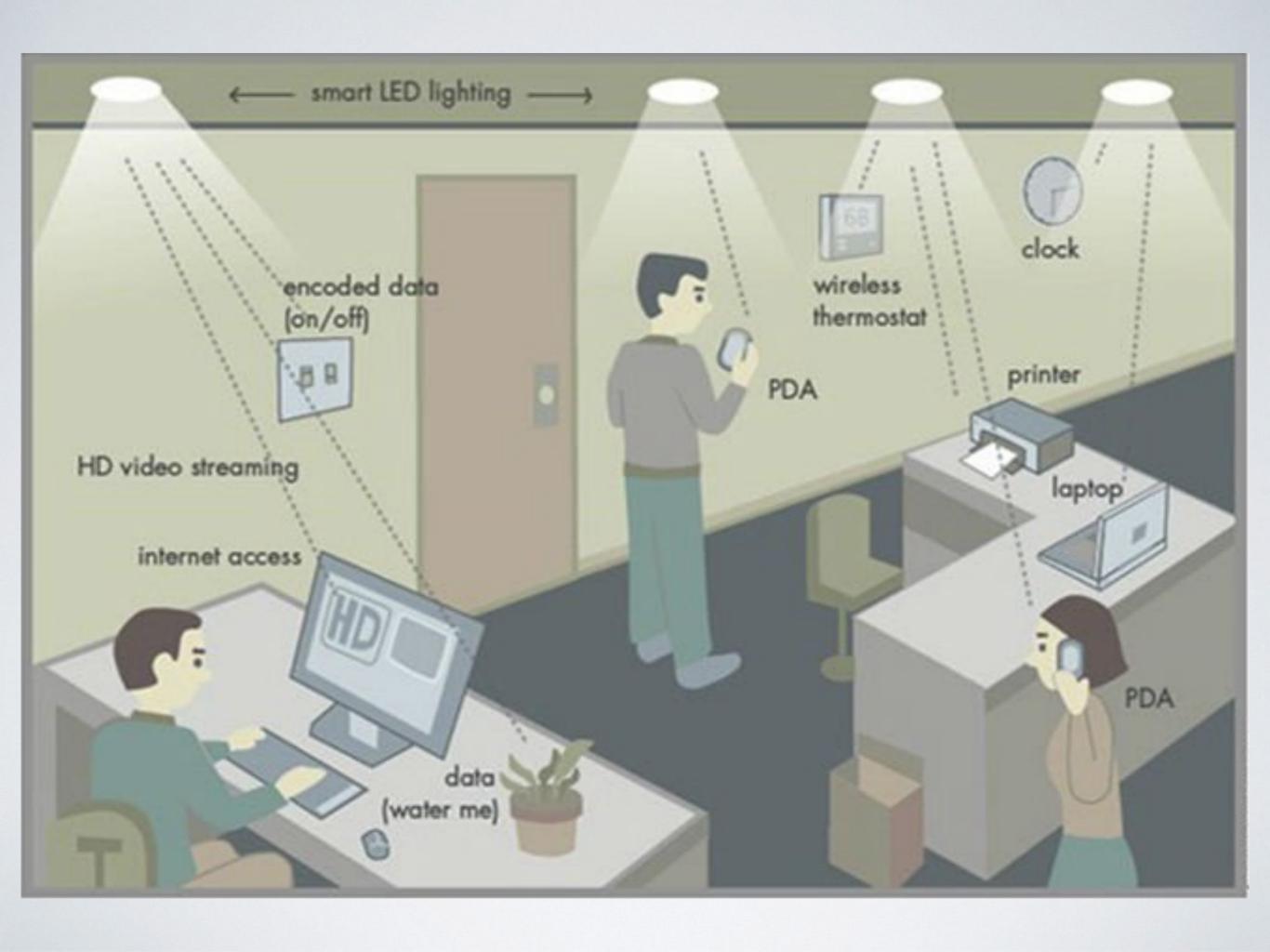
## OVERVIEW

- 100 times faster than WiFi
- Max speeds of 224 gigabits per second
- Invented by Harald Haas (Professor of Mobile Communications at the University of Edinburgh)

## TRANSMISSION

 LED lamps is used as Transceiver





## HOW IT WORKS

 LED's can be switched on in less than 1µ seconds



#### ADVANTAGES

- · Can be replace any light into a LiFi Transceiver
- Can be used in RF Restricted Areas
- Hospitals to avoid Radiations

## LIMITATIONS

- It can't penetrate through wall (or other objects)
- External light sources will cause interruption
  (Sun, other light sources)
- Device to Transmitter communication is complex

"The end"