

IoT – Experience the Life



Internet of Things (IoT) is slowly transforming the way we operate and function in our day-to-day lives. From healthcare to smart homes to now smart cities, there are different sectors that are being touched by the IoT and Make in India wave.

As you can imagine, life in ten years will look materially different from how it looks in 2016 as the pace of technology change accelerates, thanks a ton to the coming boom of the Internet of Things.

Today's info-graphic puts the scale of the IoT into a dazzling sense of perspective. Here's the dramatic shift in devices connected to the web from 1990 until today:

- In 1990, there were over 300,000 desktop computers connected to the internet.
- In 2000, there were over 300 million desktops connected to the internet.
- In 2016, there are now over 2 billion mobile phones connected to the internet.

And here's what to expect after just a few more years! By 2020...

- There will be 13 billion kettles, fridges, TVs, thermostats, security cameras, lights, smoke detectors and other things in your home connected to the internet.
- There will be 3.5 billion navigation systems, in-car entertainment systems, and other things in vehicles connected to the internet.
- There will be 411 million wrist bands, shoes, glasses, watches, sports socks, clothing, and other wearable things connected to the internet.
- There will be 646 million heart rate monitors, body implants, pill bottles, blood pressure monitors, skin patches, and other things in the hospital connected to the internet.
- There will be 9.7 buildings, street lights, traffic lights, water pipes, parking meters, pollution monitors, and other things in the city connected to the internet.

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WHAT DOES THIS MEAN?

It means that in just a few years, it is likely true that: your house's heating will turn when you start to head home, traffic lights will adjust to the flow of traffic, empty parking spaces will communicate with your car, your kettle can be ready as you walk in the door, your fridge will order milk for you when you are running low, and your pill bottle may message you when a dose is accidentally missed.



This possibly is one of the biggest dreams especially in India. Imagine a scenario where all the vehicles in a country, or even a continent, are inter-connected through a system that can manage traffic, predict and tackle congestion, sense a serious problem and alert authorities and response teams in case of accidents.

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It is eight O'clock in the morning. There is an old man walking on the road with the help of a walking stick. It isn't a regular stick that just helps him, but it works as a device that tells his family if he takes a wrong turn or is hurt in some way.



A working professional gets a message on his phone asking him if he wants to switch off the geyser he left on.

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Products like wearable watches, walking sticks, and bands are not only calculating calories and number of steps, but work as ECG monitoring devices & blood count tests.



The main areas we will see the Internet of Things begin to take hold will be buildings (automation), the energy sector, consumer good & services, healthcare, industrial & manufacturing, transportation, retail, security and of course any IT networks.

Like any groundbreaking new technology, the Internet of Things has the potential to drastically improve our personal lives, our work places and our industrial / manufacturing efficiencies & capabilities.