Your next refrigerator may know more about your diet than your doctor! Or audio player may know which song is better for your present mood!

How many objects do you have connected to Internet? 1 or 2? May be a decade ago, yes! But in 2020 it is expected 50 billion objects will be connected to Internet. If we consider population growth, there will be 6.6 objects connected to internet for every person. We are talking about a world blanked with billions of sensors. These sensors will take information of real objects and will upload it to Internet. And we call it “Internet of Things”

Today computers and, therefore, the Internet are almost wholly dependent on human beings for information. Nearly all of the roughly 50 petabytes (a petabyte is 1,024 terabytes) of data available on the Internet were first captured and created by human beings by typing, recording video, taking a digital picture or scanning a bar code.

The problem is, people have limited time, attention and accuracy which means they are not very good at capturing data about things in the real world. If we had computers that knew everything there was to know about things using data they gathered without any help from us we would be able to track and count everything and greatly reduce waste, loss and cost.

A thing, in the Internet of Things, can be a person with a heart monitor implant, a farm animal with a biochip transponder, an automobile that has built-in sensors to alert the driver when tire pressure is low or any other natural or man-made object that can be assigned an IP address and provided with the ability to transfer data over a network. Systems built with M2M communication capabilities are often referred to as being smart systems.

For this we need to assign IP adresses for all these things. [IPv6’s](http://searchenterprisewan.techtarget.com/definition/IPv6) huge increase in address space is an important factor in the development of the Internet of Things. The address space expansion means that we could assign an IPV6 address to every atom on the surface of the earth, and still have enough addresses left to do another 100+ earths. In other words, humans could easily assign an IP address to every "thing" on the planet.

The Internet of Things (IoT) is a vision. It is being built today. The stakeholders are known, the debate has yet to start. The time of devices act according to what your reality is coming. In hundreds of years our real needs have not changed. We want to be loved, feel safe, have fun, be relevant in work and friendship, be able to support our families. We can have more time for all of these.

Now the time of prophecy is and end.

Lets look a house built with a smart system of IoT called Smart Home.

Imagine when you came back your home it wakes up. Open the garage door, deactivate the alarm system, increase the heat if the water is cold outside. Door lock system checks your voice, phone, finger print as ID check. When you enter inside, tele-secretary starts voice call records, lights or curtains are open depending on present situation. Sound system knows you are stressed with the help of your watch that detects your blood pressure detector and start to play classic music. When you walk to fridge, you see what is inside of the fridge and advices what you can eat or cook according to your metabolism or your diet. When you get book, reading lights are open and reading music stars in reading room while rock music plays in the kitchen. Washing machine starts after midnight because of low electricity cost or house can use electricity in your electricity cars batteries or solar panels on the roof when electricity cost is high in day time. If you leave the house when oven is open for an emergency, hose close the oven and locks the doors, close the lights. When you get in the bedroom, sleeping security activated.